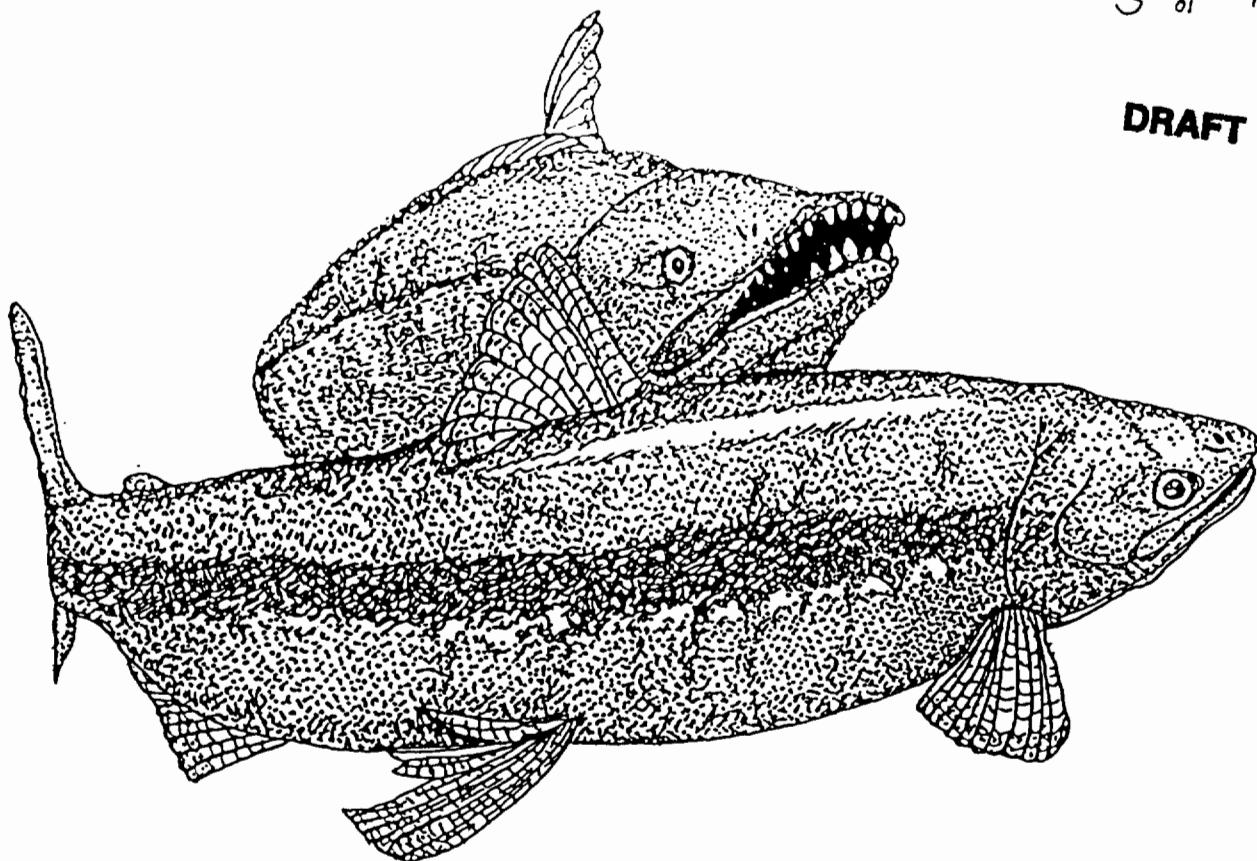


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SUSITNA HYDRO AQUATIC STUDIES
PHASE II BASIC DATA REPORT

Volume 4. Aquatic Habitat and
Instream Flow Studies, 1982.

Appendices B-D

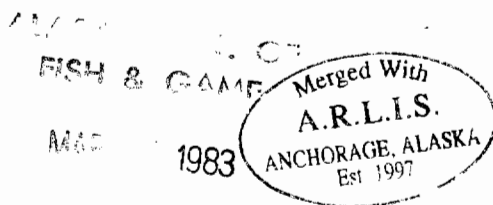


-by-

ALASKA DEPARTMENT OF FISH AND GAME
Susitna Hydro Aquatic Studies
2207 Spenard Road
Anchorage, Alaska 99503
1983

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Table 4-B-1. Velocities (ft/sec) and depths (ft) in Chum Channel at three different discharges, 1982.

Flow (cfs)		Transect Number								
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>1-8</u>
VELOCITIES										
0.4	$\bar{x}$ Range N	0.27 0.00-0.69 15	0.12 0.00-0.20 18	0.00 0.00-0.00 33	0.00 0.00-0.00 29	0.00 0.00-0.02 14	0.00 0.00-0.02 16	0.06 0.00-0.34 28	0.19 0.00-0.78 27	0.07 0.00-0.78 180
7	$\bar{x}$ Range N	0.43 0.10-0.90 35	0.32 0.00-0.70 45	0.15 0.00-0.30 39	0.17 0.00-0.30 32	0.31 0.00-0.50 17	0.24 0.00-0.40 23	0.29 0.00-0.70 33	0.28 0.00-0.80 51	0.27 0.00-0.90 275
90	$\bar{x}$ Range N	1.72 0.14-2.86 58	1.28 0.00-2.10 73	0.80 0.00-1.30 50	0.91 0.00-1.50 42	1.44 0.10-2.50 34	0.93 0.00-1.80 49	0.84 0.00-1.60 68	1.24 0.01-1.80 65	1.15 0.00-2.86 439
DEPTHS										
0.4	$\bar{x}$ Range N	0.1 0.05-0.1 15	0.2 0.1-0.2 18	0.5 0.05-0.82 33	0.6 0.1-0.92 29	0.3 0.05-0.55 14	0.4 0.2-0.59 16	0.3 0.05-1.6 28	0.2 0.1-0.2 27	0.4 0.05-1.6 180
7	$\bar{x}$ Range N	0.2 0.1-0.5 35	0.2 0.1-0.4 48	0.6 0.1-1.1 39	0.7 0.1-1.1 32	0.5 0.1-0.7 17	0.4 0.1-0.7 23	0.5 0.1-1.9 33	0.1 0.1-0.3 51	0.4 0.1-1.9 278
90	$\bar{x}$ Range N	0.5 0.15-0.86 58	0.4 0.1-0.8 73	0.9 0.1-1.6 50	1.1 0.1-1.6 42	0.7 0.1-1.5 34	0.7 0.05-1.5 49	0.8 0.1-2.8 68	0.6 0.1-0.8 65	0.7 0.05-2.8 439

4-B-1

1982

		Transect Number								
Flow (cfs)		0	1	2	3	4	5	6	7	0-7
VELOCITIES										
0.3	$\bar{x}$	0.00	0.00	0.00	0.00	0.08	0.20	0.01	0.27	0.04
	Range	0.00-0.00	0.00-0.00	0.00-0.00	0.00-0.00	0.00-0.20	0.10-0.30	0.00-0.10	0.20-0.40	0.00-0.40
	N	18	16	7		7	3	7	4	62
281	$\bar{x}$	2.05	0.67	1.26	1.24	1.12	1.19	1.27	1.31	1.28
	Range	0.05-3.64	-0.39-2.45	-0.05-2.85	0.21-1.86	0.00-1.87	0.00-2.15	0.26-2.20	0.44-2.42	-0.39-3.64
	N	39	49	33	20		25	19	27	228.0
DEPTHS										
0.3	$\bar{x}$	0.2	1.8	0.3		0.3	0.3	0.6	0.3	0.7
	Range	0.1-4.3	0.1-2.7	0.1-0.7		0.2-0.3	0.2-0.5	0.6-1.9	0.2-0.3	0.1-4.3
	N	18	16	7		7	3	7	4	62
281	$\bar{x}$	4.7	4.4	3.2	3.2	2.6	2.7	2.7	2.3	3.4
	Range	0.2-8.69	0.25-7.4	0.6-5.6	0.8-4.3	0.2-3.65	0.62-3.2	0.5-4.95	0.65-3.82	0.2-8.69
	N	69	40	33	20	25	25	19	27	228

Appendix Table 4-B-3. Velocities (ft/sec) and depths (ft) in Slough 8A at three different discharges, 1982.

Flow (cfs)	Transect Number											
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>1-11</u>
VELOCITIES												
4	$\bar{x}$ 0.03	0.05	0.14	0.07	0.11	0.19	0.31	0.08	0.07	0.06	0.05	0.11
	Range 0.00-0.10	0.00-0.15	0.00-0.55	0.00-0.10	0.00-0.50	0.00-0.80	0.00-1.50	0.00-0.40	0.00-0.20	0.00-0.15	0.00-0.20	0.00-0.80
	N 41	33	34	20	32	28	33	30	32	35	23	341
7	$\bar{x}$ 0.07	0.11	0.15	0.10	0.07	0.27	0.54	0.23	0.15	0.11	0.11	0.17
	Range 0.00-0.15	0.00-0.32	0.00-0.62	0.00-0.18	0.00-0.21	0.00-0.71	0.00-1.78	0.02-0.55	0.00-0.34	0.00-0.24	0.00-0.45	0.00-1.78
	N 42	33	35	22	32	28	32	32	32	36	24	348
20	$\bar{x}$ 0.16	0.23	0.36	0.21	0.17	0.53	0.74	0.53	0.40	0.29	0.26	0.35
	Range 0.00-0.45	0.00-0.80	0.00-1.20	0.00-0.40	0.00-0.40	0.20-0.90	0.00-2.10	0.00-0.90	0.00-0.70	0.00-0.70	0.00-0.90	0.00-1.20
	N 42	34	37	29	33	30	36	39	35	37	29	381
DEPTHS												
4	$\bar{x}$ 1.1	1.2	0.6	1.2	2.4	0.2	0.2	0.2	0.4	0.5	0.5	0.8
	Range 0.1-1.65	0.05-1.90	0.2-1.0	0.2-1.9	0.2-4.9	0.05-0.5	0.05-0.5	0.05-0.7	0.05-1.05	0.1-1.1	0.5-1.6	0.05-4.9
	N 41	33	34	20	33	28	33	36	32	35	23	348
7	$\bar{x}$ 1.2	1.3	0.7	1.3	2.5	0.4	0.2	0.3	0.5	0.6	0.6	0.9
	Range 0.1-1.9	0.5-2.1	0.05-1.25	0.1-1.9	0.35-4.9	0.1-0.6	0.05-0.6	0.05-0.7	0.05-1.1	0.05-1.15	0.05-1.65	0.05-4.9
	N 42	33	37	22	32	28	34	35	32	36	25	356
20	$\bar{x}$ 1.3	1.4	0.9	1.2	2.6	0.6	0.3	0.4	0.6	0.8	0.7	1.0
	Range 0.2-1.9	0.25-2.2	0.3-1.4	0.1-2.15	0.6-5.3	0.3-0.8	0.1-0.7	0.1-1.1	0.1-1.2	0.1-1.4	0.1-1.9	0.1-5.3
	N 42	35	37	29	33	30	36	39	35	37	29	382

4-B-3

Transect Number									
Flow (cfs)	1	2	3	4	5	6	7	8	9
VELOCITIES									
3	$\bar{x}$ Range N	0.11 0.00-0.30 28	0.15 0.00-0.50 25	0.32 0.00-0.98 26	0.11 0.00-0.22 23	0.06 0.00-0.10 39	0.03 0.00-0.08 28	0.04 0.00-0.10 33	0.05 0.00-0.10 28
8	$\bar{x}$ Range N	0.26 0.00-0.59 27	0.30 0.00-0.70 29	0.56 0.00-2.00 40	0.28 0.05-0.42 23	0.15 0.00-0.23 40	0.07 0.00-0.11 28	0.10 0.01-0.19 30	0.07 0.00-0.15 28
145	$\bar{x}$ Range N	1.06 0.00-1.63 25	1.14 0.00-1.95 24	1.21 0.00-2.40 36	1.27 0.00-2.35 35	1.14 0.25-1.48 34	1.07 0.00-1.98 18	0.97 0.08-1.58 19	0.78 0.00-1.24 17
232	$\bar{x}$ Range N	1.14 0.00-1.88 28	1.43 0.00-2.60 26	1.37 0.02-2.35 40	1.48 0.02-2.15 35	1.15 0.40-1.60 37	1.10 0.00-1.88 21	1.23 0.00-2.15 23	1.24 0.20-2.04 19
DEPTHS									
3	$\bar{x}$ Range N	0.6 0.1-0.75 28	0.4 0.1-0.7 25	0.1 0.1-0.3 29	0.4 0.1-1.0 23	0.5 0.1-0.8 39	1.6 0.2-2.5 28	1.3 0.1-3.35 33	1.8 0.1-3.65 28
8	$\bar{x}$ Range N	0.6 0.1-0.8 28	0.4 0.1-0.7 29	0.1 0.05-0.25 40	0.6 0.05-1.25 24	0.5 0.05-0.9 43	1.7 0.1-2.7 28	1.4 0.05-2.7 31	2.0 0.1-3.7 28
145	$\bar{x}$ Range N	1.2 0.3-1.9 25	1.0 0.05-1.8 24	0.7 0.05-1.3 36	0.7 0.05-1.9 35	0.9 0.05-1.4 34	1.9 0.1-3.0 18	1.7 0.1-3.3 19	2.3 0.1-4.0 17
232	$\bar{x}$ Range N	1.4 0.05-2.1 28	1.3 0.1-2.25 26	1.0 0.1-1.8 40	1.0 0.5-2.3 35	1.2 0.35-1.8 37	2.1 0.1-3.6 21	1.9 0.05-4.6 23	2.6 0.2-4.7 19

Table 4-B-5. Velocities (ft/sec) and depths (ft) in Slough 21 at three different discharges, 1982.

Flow (cfs)	Transect Number								
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>1-8</u>
VELOCITIES									
5 $\bar{x}$	0.07	0.21	0.12	0.09	0.24	0.38	0.24	0.06	0.14
Range	0.00-0.20	0.00-1.10	0.00-0.20	0.00-0.30	0.00-0.95	0.00-2.05	0.10-0.35	0.00-0.38	0.00-2.05
N	48	37	31	27	20	18	10	55	246
10 $\bar{x}$	0.05	0.11	0.12	0.11	0.24	0.52	0.31	0.20	0.87
Range	0.00-0.15	0.00-0.45	0.00-0.22	0.00-0.23	-0.02-0.61	0.00-2.10	0.00-0.55	0.01-1.50	0.00-2.10
N	32	36	38	32	25	25	13	55	256
157 $\bar{x}$	1.29	1.48	0.89	0.93	1.08	1.36	1.59		1.27
Range	0.05-2.45	0.00-3.00	0.10-1.50	0.00-1.45	0.00-1.90	0.00-2.40	0.55-2.50		0.00-3.00
N	88	55	25	18	21	23	15		245
DEPTHS									
5 $\bar{x}$	0.8	0.4	0.8	1.0	0.4	0.2	0.8	0.8	0.7
Range	0.05-1.6	0.1-0.85	0.15-1.35	0.2-2.35	0.1-0.7	0.05-0.5	0.1-1.35	0.2-1.8	0.05-2.35
N	48	37	31	27	20	20	12	55	250
10 $\bar{x}$	1.4	0.5	1.0	1.1	0.6	0.3	0.9	1.4	1.0
Range	0.2-2.4	0.05-1.1	0.2-1.55	0.15-2.8	0.05-1.1	0.05-0.7	0.1-1.65	0.5-2.8	0.05-2.8
N	32	36	38	32	25	26	13	55	257
157 $\bar{x}$	2.2	1.5	1.9	2.2	1.4	1.1	1.3		1.8
Range	0.15-3.8	0.2-2.7	0.5-2.75	0.1-4.0	0.2-2.3	0.3-1.9	0.3-2.5		0.15-4.0
N	88	55	25	18	21	23	15		245

4-B-5

Table 4-B-6. Hydraulic habitat variables collected
at transects in Slough 8A, Aug 22, 1982.

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1	.40	0.00	0.00	SILT	
1	.80	0.00	0.00	SILT	
1	.90	.10	.18	SILT	
1	1.00	0.00	0.00	SILT	
1	1.00	0.00	0.00	SILT	
1	1.00	0.00	0.00	SILT	
1	1.05	.05	.12	SILT	
1	1.20	.05	.13	SILT	
1	1.30	.05	.09	SILT	
1	1.45	.03	.28	SILT	
1	1.40	.10	.30	SILT	
1	1.50	.10	.16	SILT	
1	1.60	.05	.16	SILT	
1	1.55	.05	0.00	SILT	
1	1.60	0.00	.17	SILT	
1	1.65	.05	.16	SILT	
1	1.60	.05	.16	SILT	
1	1.60	.05	.32	SILT	
1	1.60	.10	.16	SILT	
1	1.55	.05	.15	SILT	
1	1.50	.05	.15	SILT	
1	1.50	.05	.15	SILT	
1	1.50	.05	.14	SILT	
1	1.40	.05	.13	SILT	
1	1.25	.05	0.00	SILT	
1	1.10	0.00	0.00		
1	1.00	0.00	0.00	SILT	
1	.95	.05	.10	SILT	
1	.95	0.00	0.00	SILT	
1	.95	0.00	0.00	SILT	
1	.85	0.00	0.00	SILT	
1	.90	0.00	0.00	SILT	
1	.80	0.00	0.00	SILT	
1	.85	0.00	0.00	SILT	
1	.80	0.00	0.00	SILT	
1	.60	0.00	0.00	SILT	
1	.65	0.00	0.00	SILT	
1	.50	0.00	0.00	SILT	
1	.45	0.00	0.00	SILT	
1	.30	0.00	0.00	SILT	
1	.10	0.00	0.00	SILT	
1	0.00	0.00	0.00	SILT	
2	.30				
2	.50	.05	.05	COBBLE	SILT

Table 4-B-6. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
2	.50	.10	.10	COBBLE	SILT
2	.50	0.00	0.00	COBBLE	SILT
2	.50	.05	.05	COBBLE	SILT
2	.40	.05	.04	COBBLE	SILT
2	.35	.05	.03	COBBLE	SILT
2	.50	.05	.05	COBBLE	SILT
2	.70	.05	.07	COBBLE	SILT
2	1.25	.10	.25	COBBLE	SILT
2	1.40	.15	.42	COBBLE	SILT
2	1.45	.10	.29	COBBLE	SILT
2	1.60	.15	.48	COBBLE	SILT
2	1.70	.15	.51		
2	1.60	.15	.48		
2	1.65	.15	.50	COBBLE	SILT
2	1.65	.10	.33	COBBLE	SILT
2	1.90	.10	.38	SILT	
2	1.90	0.00	0.00	SILT	
2	1.90	.05	.19	SILT	
2	1.80	.05	.18	SILT	
2	1.65	.05	.17	SILT	
2	1.60	0.00	0.00	SILT	
2	1.45	0.00	0.00	SILT	
2	1.30	0.00	0.00	SILT	
2	1.30	0.00	0.00	SILT	
2	1.20	0.00	0.00	SILT	
2	1.10	0.00	0.00	SILT	
2	1.10	0.00	0.00	SILT	
2	1.00	0.00	0.00	SILT	
2	1.00	0.00	0.00	SILT	
2	.95	0.00	0.00	SILT	
2	.05	0.00	0.00	SILT	
2	0.00	0.00	0.00	SILT	
3	.60				
3	.80	.05	.09	COBBLE	SILT
3	.95	.10	.19	COBBLE	SILT
3	1.00	.10	.20	COBBLE	SILT
3	1.00	.05	.10	COBBLE	SILT
3	1.00	.05	.10	COBBLE	SILT
3	.90	0.00	0.00	COBBLE	SILT
3	.95	0.00	0.00	COBBLE	SILT
3	.90	0.00	0.00	COBBLE	SILT
3	.80	0.00	0.00	COBBLE	SILT
3	.80	0.00	0.00	COBBLE	SILT
3	.85	0.00	0.00	COBBLE	SILT
3	.85	0.00	0.00	COBBLE	SILT

Table 4-B-6. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
3	.70	0.00	0.00	COBBLE	SILT
3	.75	0.00	0.00	COBBLE	SILT
3	.80	0.00	0.00	COBBLE	SILT
3	.70	0.00	0.00	COBBLE	SILT
3	.25	0.00	0.00	COBBLE	SILT
3	0.00	0.00	0.00	COBBLE	SILT
3	0.00	0.00	0.00	COBBLE	SILT
3	.20	0.00	0.00	COBBLE	SILT
3	.20	.15	.05	COBBLE	SILT
3	.35	.25	.13	COBBLE	SILT
3	.45	.35	.24	COBBLE	SILT
3	.60	.45	.54	COBBLE	SILT
3	.55	.40	.44	COBBLE	SILT
3	.45	.45	.41	COBBLE	SILT
3	.50	.55	.44	COBBLE	SILT
3	.50	.45	.37	COBBLE	SILT
3	.35	.40	.22	COBBLE	SILT
3	.30	.40	.19	COBBLE	SILT
3	.35	.20	.13	COBBLE	SILT
3	.40	.20	.15	COBBLE	SILT
3	.20	.10	.04	COBBLE	SILT
4	.20	0.00	0.00	COBBLE	SILT
4	.55	0.00	0.00	COBBLE	SILT
4	.95	0.00	0.00	COBBLE	SILT
4	1.25	.05	.13	COBBLE	SILT
4	1.30	.05	.13	COBBLE	SILT
4	1.50	.05	.15	COBBLE	SILT
4	1.45	.10	.29	COBBLE	SILT
4	1.40	.10	.28	COBBLE	SILT
4	1.40	.10	.28	COBBLE	SILT
4	1.65	.10	.33	COBBLE	SILT
4	1.90	.10	.38	COBBLE	SILT
4	1.75	.10	.35	COBBLE	SILT
4	1.55	.05	1.55	COBBLE	SILT
4	1.30	.10	.26	COBBLE	SILT
4	1.40	.05	.14	COBBLE	SILT
4	1.50	.10	.30	COBBLE	SILT
4	1.30	.10	.26	COBBLE	SILT
4	1.15	.05	.12	COBBLE	SILT
4	.60	0.00	0.00	COBBLE	SILT
4	.40	0.00	0.00	COBBLE	SILT
4	0.00				
5	.25	0.00	0.00	SAND	SILT
5	1.30	0.00	0.00	SAND	SILT
5	2.35	0.00	0.00	SAND	SILT

Table 4-B-6. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
5	3.50	.05	.38	SAND	SILT
5	4.20	.05	.42	SAND	SILT
5	4.40	.08	.66	SAND	SILT
5	4.40	.08	.66	COBBLE	SILT
5	4.70	.05	.47	COBBLE	SILT
5	4.80	.08	.72	COBBLE	SILT
5	4.90	.08	.74	COBBLE	SILT
5	4.60	.08	.69	COBBLE	SILT
5	4.50	.08	.68	COBBLE	SILT
5	4.15	.08	.62	COBBLE	SILT
5	3.70	.08	.56	COBBLE	SILT
5	3.50	.08	.53	COBBLE	SILT
5	3.10	.08	.47	COBBLE	SILT
5	2.25	.05	.23	COBBLE	SILT
5	1.85	.05	.19	COBBLE	SILT
5	1.50	.10	.30	COBBLE	SILT
5	1.50	.15	.45	COBBLE	SILT
5	1.50	.15	.45	COBBLE	SILT
5	1.45	.20	.58	COBBLE	SILT
5	1.25	.10	.25	COBBLE	SILT
5	1.20	.10	.24	COBBLE	SILT
5	.75	.10	.15	COBBLE	SILT
5	.70	.10	.14	COBBLE	SILT
5	.50	.10	.10	COBBLE	SILT
5	.60	.10	.12	COBBLE	SILT
5	.60	.10	.12	COBBLE	SILT
5	.50	.50	.50	COBBLE	SILT
5	.50	.50	.50	COBBLE	SILT
5	.20	0.00	0.00	COBBLE	SILT
6	0.00	0.00	0.00	COBBLE	SILT
6	.10	0.00	0.00	COBBLE	SILT
6	.10	0.00	0.00	COBBLE	SILT
6	.30	.10	.06	COBBLE	SILT
6	.35	.05	.04	COBBLE	SILT
6	.35	.05	.04	COBBLE	SILT
6	.40	.40	.32	RUBBLE	SILT
6	.20	.30	.12	RUBBLE	SILT
6	.20	.10	.04	RUBBLE	SILT
6	.40	.20	.16	RUBBLE	SILT
6	.20	.25	.10	RUBBLE	SILT
6	.30	.35	.11	RUBBLE	SILT
6	.20	.20	.04	RUBBLE	SILT
6	.35	.25	.18	RUBBLE	SILT
6	.40	.25	.20	RUBBLE	SILT
6	.25	.15	.08	RUBBLE	SILT

Table 4-B-6. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
6	.30	.20	.12	RUBBLE	SILT
6	.40	.30	.24	RUBBLE	SILT
6	.40	.80	.64	RUBBLE	SILT
6	.50	.70	.70	RUBBLE	SILT
6	.40	.45	.36	RUBBLE	SILT
6	.05	0.00	0.00	RUBBLE	SILT
6	.05	0.00	0.00	RUBBLE	SILT
6	.15	.05	.02	RUBBLE	SILT
6	.15	.10	.03	RUBBLE	SILT
6	.10	.10	.02	RUBBLE	SILT
6	0.00	0.00	0.00	RUBBLE	SILT
6	.15	0.00	0.00	RUBBLE	SILT
6	0.00				
7	.25	0.00	0.00	COBBLE	RUBBLE
7	.25	0.00	0.00	COBBLE	RUBBLE
7	.40	.15	.12	COBBLE	RUBBLE
7	.50	.15	.15	COBBLE	RUBBLE
7	.30	.25	.15	COBBLE	RUBBLE
7	.10	.15	.03	COBBLE	RUBBLE
7	.10	.40	.07	COBBLE	RUBBLE
7	.05	.50	.04	COBBLE	RUBBLE
7	.15	.60	.15	COBBLE	RUBBLE
7	.05	0.00	0.00	COBBLE	RUBBLE
7	.15	.85	.23	COBBLE	RUBBLE
7	.10	.15	.03	COBBLE	RUBBLE
7	.20	.10	.04	COBBLE	RUBBLE
7	.15	.70	.19	COBBLE	RUBBLE
7	.15	.20	.06	COBBLE	RUBBLE
7	.30	1.50	.77	COBBLE	RUBBLE
7	.30	.90	.54	COBBLE	RUBBLE
7	.30	.70	.42	COBBLE	RUBBLE
7	.30	.60	.36	COBBLE	RUBBLE
7	0.00	0.00	0.00	COBBLE	RUBBLE
7	.15	.90	.27	COBBLE	RUBBLE
7	.20	1.20	.48	COBBLE	RUBBLE
7	0.00	0.00	0.00	COBBLE	RUBBLE
7	0.00	0.00	0.00	COBBLE	RUBBLE
7	.05	0.00	0.00	COBBLE	RUBBLE
7	0.00	0.00	0.00	COBBLE	RUBBLE
7	.20	0.00	0.00	COBBLE	RUBBLE
7	.20	.20	.40	COBBLE	RUBBLE
7	0.00	0.00	0.00	COBBLE	RUBBLE
7	.05	0.00	0.00	COBBLE	RUBBLE
7	0.00	0.00	0.00	COBBLE	RUBBLE
7	.05	0.00	0.00	COBBLE	RUBBLE

Table 4-B-6. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
7	.20	.05	.02	COBBLE	RUBBLE
7	.05	0.00	0.00	COBBLE	RUBBLE
7	.10	0.00	0.00	COBBLE	RUBBLE
7	.05	0.00	0.00	COBBLE	RUBBLE
7		0.00	0.00		
8				COBBLE	RUBBLE
8	.05	0.00	0.00	COBBLE	RUBBLE
8	.20	0.00	0.00	COBBLE	RUBBLE
8	.20	0.00	0.00	COBBLE	RUBBLE
8	.10	0.00	0.00	COBBLE	RUBBLE
8	.05	0.00	0.00	COBBLE	RUBBLE
8	.10	0.00	0.00	COBBLE	RUBBLE
8	.05	0.00	0.00	COBBLE	RUBBLE
8	.10	0.00	0.00	COBBLE	RUBBLE
8	.10	.10	.02	COBBLE	RUBBLE
8	0.00	0.00	0.00	COBBLE	RUBBLE
8	.05	0.00	0.00	COBBLE	RUBBLE
8	0.00	0.00	0.00	COBBLE	RUBBLE
8	.10	.25	.05	COBBLE	RUBBLE
8	0.00	0.00	0.00	COBBLE	RUBBLE
8	0.00	0.00	0.00	COBBLE	RUBBLE
8	0.00	0.00	0.00	COBBLE	RUBBLE
8	.05	0.00	0.00	COBBLE	RUBBLE
8	0.00	0.00	0.00	COBBLE	RUBBLE
8	.10	.05	.01	COBBLE	RUBBLE
8	.05	0.00	0.00	COBBLE	RUBBLE
8	.20	0.00	.04	COBBLE	RUBBLE
8	.40	0.00	.16	COBBLE	RUBBLE
8	.50	0.00	.30	COBBLE	RUBBLE
8	.55	0.00	.33	COBBLE	RUBBLE
8	.65	0.00	.39	COBBLE	RUBBLE
8	.70	.40	.56	COBBLE	RUBBLE
8	.55	.40	.44	COBBLE	RUBBLE
8	.40	.30	.24	COBBLE	RUBBLE
8	.05	0.00	0.00	COBBLE	RUBBLE
8	.30	.15	.09	COBBLE	RUBBLE
8	.30	.30	.18	COBBLE	RUBBLE
8	.20	.20	.08	COBBLE	RUBBLE
8	.05	0.00	0.00	COBBLE	RUBBLE
8	.05	.05	.01	COBBLE	RUBBLE
8	.10	0.00	0.00	COBBLE	RUBBLE
8	.05	0.00	0.00	COBBLE	RUBBLE
9	.10	0.00	0.00	COBBLE	GRAVEL
9	.05	0.00	0.00	COBBLE	GRAVEL
9	.05	0.00	0.00	COBBLE	GRAVEL

Table 4-B-6. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
9	0.00	0.00	0.00	COBBLE	GRAVEL
9	.05	0.00	0.00	COBBLE	RUBBLE
9	.10	0.00	0.00	COBBLE	RUBBLE
9	.25	.10	.05	COBBLE	RUBBLE
9	.30	.10	.06	COBBLE	RUBBLE
9	.30	.10	.06	COBBLE	RUBBLE
9	.30	.10	.06	COBBLE	RUBBLE
9	.35	.05	.04	COBBLE	RUBBLE
9	.45	.10	.09	COBBLE	RUBBLE
9	.10	0.00	0.00	COBBLE	RUBBLE
9	.20	0.00	0.00	COBBLE	RUBBLE
9	.20	.05	.02	COBBLE	RUBBLE
9	.25	.10	.05	COBBLE	RUBBLE
9	.40	.15	.12	COBBLE	RUBBLE
9	.60	.20	.24	COBBLE	RUBBLE
9	.65	.20	.26	COBBLE	RUBBLE
9	1.05	.15	.32	COBBLE	RUBBLE
9	1.00	.20	.40	COBBLE	RUBBLE
9	.95	.15	.29	COBBLE	RUBBLE
9	.90	.15	.27	COBBLE	RUBBLE
9	.55	.15	.17	COBBLE	RUBBLE
9	.40	.15	.12	COBBLE	RUBBLE
9	.25	.10	.05	COBBLE	RUBBLE
9	.10	0.00	0.00	COBBLE	RUBBLE
9	.50	.05	.05	COBBLE	RUBBLE
9	.40	.05	.04	COBBLE	RUBBLE
9	.30	.05	.03	COBBLE	RUBBLE
9	.20	0.00	0.00	COBBLE	RUBBLE
9	.10	0.00	0.00	COBBLE	RUBBLE
9	0.00				
10	.20			COBBLE	RUBBLE
10	.35	0.00	0.00	COBBLE	RUBBLE
10	.20	0.00	0.00	COBBLE	RUBBLE
10	.20	0.00	0.00	COBBLE	RUBBLE
10	.20	0.00	0.00	COBBLE	RUBBLE
10	.35	.05	.04	COBBLE	RUBBLE
10	.40	.05	.04	COBBLE	RUBBLE
10	.40	.05	.04	COBBLE	RUBBLE
10	.55	.10	.11	COBBLE	RUBBLE
10	.80	.10	.16	COBBLE	RUBBLE
10	.50	0.00	0.00	SILT	GRAVEL
10	.45	0.00	0.00	SILT	GRAVEL
10	.30	0.00	0.00	SILT	GRAVEL
10	.40	.05	.04	SILT	GRAVEL
10	.55	.05	.06	SILT	GRAVEL

Table 4-B-6. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
10	.40	.05	.04	SILT	GRAVEL
10	.45	.10	.09	SILT	GRAVEL
10	.50	.05	.05	SILT	GRAVEL
10	.50	.10	.01	SILT	GRAVEL
10	.60	.10	.12	SILT	GRAVEL
10	.70	.15	.21	SILT	GRAVEL
10	.80	.15	.24	SILT	GRAVEL
10	.80	.15	.24	RUBBLE	SILT
10	1.10	.15	.33	RUBBLE	SILT
10	1.10	.15	.33	RUBBLE	SILT
10	1.00	.15	.30	RUBBLE	SILT
10	1.00	.10	.20	RUBBLE	SILT
10	.75	.10	.15	RUBBLE	SILT
10	.85	.10	.17	RUBBLE	SILT
10	.65	.05	.06	RUBBLE	SILT
10	.20	0.00	0.00	RUBBLE	SILT
10	.25	0.00	0.00	RUBBLE	SILT
10	.30	0.00	0.00	RUBBLE	SILT
10	.20	0.00	0.00	RUBBLE	SILT
10	.10	0.00	0.00	RUBBLE	SILT
11	.05	0.00	0.00	COBBLE	
11	.30	0.00	0.00	COBBLE	
11	0.00	0.00	0.00	COBBLE	
11	0.00	0.00	0.00	COBBLE	
11	.35	0.00	0.00	COBBLE	
11	.10	0.00	0.00	COBBLE	
11	0.00	0.00	0.00	COBBLE	
11	0.00	0.00	0.00	COBBLE	SILT
11	0.00	0.00	0.00	COBBLE	SILT
11	.05	0.00	0.00	COBBLE	SILT
11	.20	0.00	0.00	SAND	
11	0.00	0.00	0.00	SAND	
11	.05	0.00	0.00	COBBLE	SILT
11	.05	0.00	0.00	COBBLE	SILT
11	0.00	0.00	0.00	SAND	
11	.10	0.00	0.00	SAND	
11	.30	0.00	0.00	SAND	
11	.50	.05	.05	COBBLE	SAND
11	1.00	.05	.10	COBBLE	SAND
11	1.00	.05	.10	COBBLE	SAND
11	1.05	.10	.21	COBBLE	SAND
11	1.60	.15	.48	COBBLE	SAND
11	1.40	.20	.56	COBBLE	SAND
11	1.35	.20	.54	COBBLE	SAND
11	1.05	.10	.21	COBBLE	SAND

Table 4-B-6. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
11	.90	.10	.18	COBBLE	SAND
11	.60	.05	.06	COBBLE	SAND
11	.10	0.00	0.00	COBBLE	SAND
11	0.00	0.00	0.00	COBBLE	SAND

Table 4-B-7. Hydraulic habitat variables collected
at transects in Slough 8A, Aug 26, 1982.

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
A	0.00			COBBLE	RUBBLE
A	.10	0.00	0.00	COBBLE	RUBBLE
A	.30	0.00	0.00	COBBLE	RUBBLE
A	.70	.05	.14	COBBLE	RUBBLE
A	.95	.05	.19	COBBLE	RUBBLE
A	1.05	.05	.21	COBBLE	RUBBLE
A	1.80	0.00	0.00	COBBLE	RUBBLE
A	2.00	.02	.16	COBBLE	RUBBLE
A	2.00	.02	.16	COBBLE	RUBBLE
A	2.30	.10	.92	COBBLE	RUBBLE
A	2.45	.05	.49	RUBBLE	COBBLE
A	2.45	.05	.49	RUBBLE	COBBLE
A	2.35	.07	.66	RUBBLE	COBBLE
A	2.30	.05	.46	RUBBLE	COBBLE
A	2.20	.10	.88	RUBBLE	COBBLE
A	2.00	.02	.16	RUBBLE	COBBLE
A	1.75	.10	.70	RUBBLE	COBBLE
A	1.55	.07	.43	RUBBLE	COBBLE
A	1.55	.07	.43	RUBBLE	COBBLE
A	1.40	.20	1.12	RUBBLE	COBBLE
A	1.40	0.00	0.00	RUBBLE	
A	1.40	.02	.11	RUBBLE	
A	1.20	.05	.24	RUBBLE	
A	1.20	.05	.24	RUBBLE	
A	1.10	.05	.22	RUBBLE	
A	1.00	0.00	0.00	RUBBLE	
A	1.00	.02	.08	RUBBLE	
A	1.00	0.00	0.00	RUBBLE	
A	.08	.02	.06	RUBBLE	
A	.85	.02	.07	RUBBLE	
A	.70	0.00	0.00	RUBBLE	
A	.70	0.00	0.00	RUBBLE	
A	.60	0.00	0.00	RUBBLE	
A	.70	0.00	0.00	RUBBLE	
A	.70	0.00	0.00	RUBBLE	
A	.85	0.00	0.00	RUBBLE	
A	.90	.02	.07	RUBBLE	
A	.80	0.00	0.00	RUBBLE	
A	.95	0.00	0.00	RUBBLE	
A	1.10	0.00	0.00	GRAVEL	RUBBLE
A	1.20	.02	1.00	GRAVEL	RUBBLE
A	1.50	.02	.12	GRAVEL	RUBBLE
A	1.80	0.00	0.00	GRAVEL	RUBBLE
A	0.00	0.00	0.00	GRAVEL	RUBBLE

Table 4-B-7. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
B		0.00	0.00		
B	.10	.15	.03	COBBLE	RUBBLE
B	.30	0.00	0.00	COBBLE	RUBBLE
B	.20	.75	.30	COBBLE	RUBBLE
B	.40	.05	.04	COBBLE	RUBBLE
B	.30	.50	.30	COBBLE	RUBBLE
B	.20	.15	.06	COBBLE	RUBBLE
B	0.00	0.00	0.00		
B	.15	.60	.18	COBBLE	RUBBLE
B	.05		0.00	BOULDER	RUBBLE
B	.40	.80	.64	RUBBLE	GRAVEL
C	0.00	0.00		SILT	COBBLE
C	.15	0.00	0.00	SILT	COBBLE
C	.50	.05	.05	RUBBLE	COBBLE
C	.70	.10	.14	RUBBLE	GRAVEL
C	.50	.15	.15	RUBBLE	GRAVEL
C	.65	.20	.26	RUBBLE	GRAVEL
C	.75	.20	.30	RUBBLE	GRAVEL
C	.55	.10	.11	RUBBLE	GRAVEL
C	.60	.15	.18	GRAVEL	RUBBLE
C	.55	.10	.11	GRAVEL	RUBBLE
C	.55	.15	.17	GRAVEL	RUBBLE
C	.35	.15	.11	COBBLE	RUBBLE
C	.35	.10	.07	RUBBLE	COBBLE
C	.30	.05	.03	RUBBLE	GRAVEL
C	.20	0.00	0.00	RUBBLE	GRAVEL
C	.10	0.00	0.00	RUBBLE	GRAVEL
C	1.00	0.00			

Table 4-B-8. Hydraulic habitat variables collected
at transects in Slough 8A, Sep 07, 1982.

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1	.65	.03	.02	SAND	
1	1.00	.09	.18	SAND	
1	1.10	.09	.20	SAND	COBBLE
1	1.10	.05	.11	SAND	
1	1.15	.10	.23	SAND	
1	1.20	.10	.24	SAND	
1	1.20	.10	.24	SAND	
1	1.40	.05	.14	SAND	
1	1.65	.08	.26	SAND	
1	1.65	.08	.26	SAND	
1	1.65	.05	.17	SAND	
1	1.65	.01	.03	SAND	
1	1.70	.08	.27	SAND	
1	1.75	.08	.28	SAND	
1	1.75	.08	.28	SAND	
1	1.80	.08	.29	SAND	
1	1.90	.11	.42	SAND	
1	1.85	.10	.37	SAND	
1	1.75	.12	.42	SAND	
1	1.70	.15	.51	SAND	
1	1.70	.15	.51	SAND	
1	1.65	.15	.50	SAND	
1	1.50	.15	.45	SAND	
1	1.50	.11	.33	SAND	
1	1.35	.11	.30	SAND	
1	1.30	.11	.29	SAND	
1	1.25	.11	.28	SAND	
1	1.15	.10	.23	SAND	
1	1.10	.10	.22	SAND	
1	1.05	.11	.23	SAND	
1	1.00	.05	.10	SAND	
1	1.00	.02	.04	SAND	
1	1.00	.01	.02	SAND	
1	1.00	0.00	0.00	SAND	
1	.90	.01	.02	SAND	
1	.80	.01	.02	SAND	
1	.80	0.00	0.00	SAND	
1	.60	.02	.02	SAND	
1	.50	.03	.03	SAND	
1	.40	0.00	0.00	SAND	
1	.30	.01	.01	SAND	
1	.10	0.00	0.00	SAND	
2	.50	.12	.11	COBBLE	SILT
2	.60	.20	.24	COBBLE	SILT

Table 4-B-8. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
2	.70	.19	.27	SAND	
2	.70	.18	.25	SAND	COBBLE
2	.55	.18	.20	COBBLE	RUBBLE
2	.55	.09	0.00	COBBLE	BOULDER
2	.60	.10	.12	COBBLE	RUBBLE
2	.70	.20	.28	COBBLE	RUBBLE
2	1.10	.22	.48	GRAVEL	BOULDER
2	1.30	.32	.83	COBBLE	GRAVEL
2	1.70	.30	.02	COBBLE	BOULDER
2	1.70	.28	.95	GRAVEL	COBBLE
2	1.80	.22	.79	COBBLE	RUBBLE
2	1.90	.20	.76	SAND	COBBLE
2	1.75	.18	.63	SAND	
2	1.80	.12	.43	SAND	
2	2.00	.10	.40	SAND	
2	2.10	.05	.21	SAND	
2	2.10	.02	.08	SAND	
2	2.10	.01	.04	SAND	
2	2.00	.01	.04	SAND	COBBLE
2	1.90	0.00	0.00	SAND	
2	1.70	.02	.07	SAND	
2	1.60	0.00	0.00	SAND	
2	1.40	0.00	0.00	SAND	
2	1.30	0.00	0.00	SAND	
2	1.30	0.00	0.00	SAND	
2	1.30	.01	.03	SAND	
2	1.25	0.00	0.00	SAND	
2	1.20	0.00	0.00	SAND	
2	1.20	0.00	0.00	SAND	
2	1.10	0.00	0.00	SAND	
2	.60	0.00	0.00	SAND	
2				SAND	
3	.80	.05	.04	BOULDER	SAND
3	1.00	.08	.16	RUBBLE	COBBLE
3	1.10	.09	.20	RUBBLE	COBBLE
3	1.00	.05	.10	BOULDER	SAND
3	1.25	.03	.08	COBBLE	SILT
3	1.15	.05	.12	COBBLE	SILT
3	1.10	.08	.18	SILT	RUBBLE
3	1.10	.08	.18	SILT	COBBLE
3	1.10	.05	.11	SILT	RUBBLE
3	1.00	.02	.04	SILT	RUBBLE
3	.95	.03	.06	SILT	COBBLE
3	1.00	0.00	0.00	SILT	COBBLE
3	.09	0.00	0.00	SILT	COBBLE

Table 4-B-8. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
3	.95	0.00	0.00	SILT	COBBLE
3	.90	.04	.07	SILT	COBBLE
3	.85	.02	.03	SILT	COBBLE
3	.80	.01	.02	SILT	COBBLE
3	.40	0.00	0.00	COBBLE	SILT
3	.10	0.00	0.00	COBBLE	SILT
3	.05		0.00	COBBLE	SILT
3	.05		0.00	COBBLE	SILT
3	.15	0.00	0.00	RUBBLE	SILT
3	.10	0.00	0.00	RUBBLE	COBBLE
3	.10	0.00	0.00	COBBLE	RUBBLE
3	.20	.01	.04	RUBBLE	COBBLE
3	.50	.15	.15	COBBLE	RUBBLE
3	.60	.25	.30	RUBBLE	COBBLE
3	.70	.28	.39	RUBBLE	COBBLE
3	.60	.55	.66	COBBLE	GRAVEL
3	.70	.51	.71	RUBBLE	COBBLE
3	.70	.45	.63	COBBLE	RUBBLE
3	.70	.39	.55	GRAVEL	COBBLE
3	.70	.48	.68	RUBBLE	GRAVEL
3	.60	.62	.74	GRAVEL	COBBLE
3	.55	.32	.35	GRAVEL	COBBLE
3	.45	.11	1.00	COBBLE	RUBBLE
3	.40	.42	.34	RUBBLE	COBBLE
4	.10	0.00	0.00	RUBBLE	COBBLE
4	.30	.01	.01	RUBBLE	COBBLE
4	.55	.01	.01	RUBBLE	BOULDER
4	.75	.05	.01	RUBBLE	COBBLE
4	1.20	.10	.24	COBBLE	RUBBLE
4	1.40	.10	.28	COBBLE	
4	1.50	.08	.24	BOULDER	RUBBLE
4	1.65	.10	.33	COBBLE	RUBBLE
4	1.50	.12	.36	COBBLE	RUBBLE
4	1.60	.11	.35	RUBBLE	COBBLE
4	1.65	.15	.50	RUBBLE	COBBLE
4	1.90	.14	.53	RUBBLE	COBBLE
4	1.90	.15	.57	BOULDER	COBBLE
4	1.90	.12	.46	BOULDER	COBBLE
4	1.80	.15	.54	BOULDER	COBBLE
4	1.60	.15	.48	BOULDER	COBBLE
4	1.60	.17	.54	BOULDER	COBBLE
4	1.55	.18	.56	COBBLE	RUBBLE
4	1.50	.10	.30	RUBBLE	
4	1.20	.10	.24	BOULDER	RUBBLE
4	.85	.10	.17	RUBBLE	

Table 4-B-8. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
4	.60	.05	.06	COBBLE	RUBBLE
5	.60	.05	.03	SAND	
5	1.60	.02	.06	SAND	
5	2.85	.01	.06	SAND	
5	3.75	.03	.23	SAND	
5	4.50	.05	.45	SAND	
5	4.50	.05	.45	SAND	
5	4.50	.06	.54	SAND	
5	4.80	.07	.67	SAND	
5	4.90	.10	.98	SAND	
5	4.90	.06	.59	SAND	BOULDER
5	4.80	.07	.67	SAND	BOULDER
5	4.60	.09	.83	SAND	COBBLE
5	4.30	.05	.43	SAND	COBBLE
5	4.00	.06	.48	COBBLE	SAND
5	3.75	.06	.45	COBBLE	SAND
5	3.00	.04	.24	SAND	COBBLE
5	2.55	.05	.26	SAND	COBBLE
5	2.25	.05	.23	COBBLE	SAND
5	1.50	.15	.45	RUBBLE	SAND
5	1.50	.21	.63	RUBBLE	SAND
5	1.60	.20	.64	RUBBLE	SAND
5	1.60	.21	.67	COBBLE	SAND
5	1.50	.15	.45	COBBLE	SAND
5	1.30	.05	.13	COBBLE	SAND
5	1.00	.05	.10	RUBBLE	SAND
5	.80	.08	.13	COBBLE	SAND
5	.80	.10	.16	COBBLE	RUBBLE
5	.80	.15	.24	COBBLE	RUBBLE
5	.70	.08	.11	COBBLE	
5	.60	.05	.06	COBBLE	
5	.50	0.00	0.00	BOULDER	COBBLE
5	.35	0.00	0.00	BOULDER	RUBBLE
6	.10	0.00	0.00	BOULDER	RUBBLE
6	.25	.08	.04	COBBLE	SILT
6	.25	.11	.06	COBBLE	SILT
6	.50	.12	.12	COBBLE	RUBBLE
6	.40	.09	.07	COBBLE	
6	.45	.21	.19	RUBBLE	COBBLE
6	.40	.21	.16	COBBLE	RUBBLE
6	.50	.20	.19	RUBBLE	COBBLE
6	.50	.28	.27	RUBBLE	COBBLE
6	.40	.32	.25	COBBLE	RUBBLE
6	.35	.30	.20	COBBLE	RUBBLE
6	.40	.24	.19	COBBLE	RUBBLE

Table 4-B-8. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
6	.40	.30	.23	RUBBLE	COBBLE
6	.50	.25	.25	RUBBLE	COBBLE
6	.50	.35	.35	RUBBLE	COBBLE
6	.50	.21	.21	RUBBLE	COBBLE
6	.30	.18	.11	COBBLE	
6	.50	.20	.20	COBBLE	BOULDER
6	.50	.62	.62	COBBLE	BOULDER
6	.60	.71	.85	COBBLE	GRAVEL
6	.40	.58	.46	BOULDER	COBBLE
6	.30	.37	.21	RUBBLE	BOULDER
6	.25	.22	.11	COBBLE	
6	.15	.15	.05	BOULDER	COBBLE
6	.40	.25	.20	COBBLE	RUBBLE
6	.40	.38	.30	COBBLE	RUBBLE
6	.20	.31	.12	COBBLE	
6	.25	.28	.14	RUBBLE	COBBLE
7	.30	0.00	0.00	GRAVEL	RUBBLE
7	.30	.02	.01	RUBBLE	GRAVEL
7	.60	.15	.18	COBBLE	GRAVEL
7	.40	.43	.34	COBBLE	GRAVEL
7	.20	.35	.07	GRAVEL	RUBBLE
7	.20	.72	.25	GRAVEL	RUBBLE
7	.30	.80	.43	GRAVEL	RUBBLE
7	.15	.80	.14	GRAVEL	COBBLE
7	.15	.85	.25	GRAVEL	COBBLE
7	.20	.95	.32	GRAVEL	RUBBLE
7	.20	.41	.15	RUBBLE	GRAVEL
7	.10	.60	.11	RUBBLE	GRAVEL
7	.20	.85	.32	GRAVEL	RUBBLE
7	.25	1.19	.60	COBBLE	GRAVEL
7	.40	.40	.31	GRAVEL	RUBBLE
7	.40	1.25	0.00	COBBLE	GRAVEL
7	.30	.90	.54	GRAVEL	COBBLE
7	.30	1.78	1.07	RUBBLE	GRAVEL
7	.20	.40	.16	GRAVEL	COBBLE
7	.15	.30	.09	GRAVEL	RUBBLE
7	.25	1.70	.85	COBBLE	GRAVEL
7	.05			COBBLE	
7	.10	.30	.06	RUBBLE	GRAVEL
7	.15	.20	.06	GRAVEL	RUBBLE
7	.10			RUBBLE	
7	.20	.15	.03	COBBLE	GRAVEL
7	.10	.20	.04	RUBBLE	COBBLE
7	.10	1.00	.20	COBBLE	GRAVEL
7	.15	.05	.02	GRAVEL	RUBBLE

Table 4-B-8. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
7				RUBBLE	GRAVEL
7	.10	0.00	0.00	RUBBLE	GRAVEL
7	.20	.20	.08	GRAVEL	RUBBLE
7	.10	.10	.02	GRAVEL	RUBBLE
7	.20	.20	.08	GRAVEL	COBBLE
7	.15	.10	.03	RUBBLE	
8	.20	.27	.11	GRAVEL	RUBBLE
8	.30	.25	.06	GRAVEL	RUBBLE
8	.20	.20	.04	RUBBLE	GRAVEL
8	.20	.20	.07	GRAVEL	RUBBLE
8	.20	.15	.06	GRAVEL	RUBBLE
8	.10	.05	.01	RUBBLE	GRAVEL
8	.20	.14	.06	GRAVEL	RUBBLE
8	.15	.10	.03	RUBBLE	GRAVEL
8	.10	.02	0.00	GRAVEL	RUBBLE
8	.05			GRAVEL	RUBBLE
8	.10	.20	.02	RUBBLE	
8	.20	.20	.08	GRAVEL	RUBBLE
8	.15	.25	.04	GRAVEL	RUBBLE
8	.05			GRAVEL	RUBBLE
8	.05			GRAVEL	RUBBLE
8	.10	.15	.03	GRAVEL	RUBBLE
8	.15	.10	.03	GRAVEL	RUBBLE
8	.15	.15	.05	GRAVEL	RUBBLE
8	.15	.05	.02	GRAVEL	RUBBLE
8	.30	.08	.05	RUBBLE	COBBLE
8	.45	.20	.18	GRAVEL	RUBBLE
8	.50	.40	.40	RUBBLE	GRAVEL
8	.50	.49	.49	GRAVEL	
8	.60	.50	.60	RUBBLE	SAND
8	.65	.50	.65	RUBBLE	COBBLE
8	.70	.55	.77	RUBBLE	GRAVEL
8	.50	.50	.50	RUBBLE	GRAVEL
8	.60	.35	.42	GRAVEL	BOULDER
8	.25	.35	.18	RUBBLE	BOULDER
8	.40	.25	.20	RUBBLE	BOULDER
8	.30	.35	.21	RUBBLE	BOULDER
8	.15	.13	.04	GRAVEL	COBBLE
8	.15	.15	.05	GRAVEL	COBBLE
8	.20	.05	.02	GRAVEL	RUBBLE
8	.15	.08	.02	GRAVEL	COBBLE
9	.05	0.00	0.00	GRAVEL	COBBLE
9	.10	0.00	0.00	GRAVEL	
9	.15	0.00	0.00	GRAVEL	RUBBLE
9	.10	0.00	0.00	GRAVEL	RUBBLE

Table 4-B-8. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
9	.10	0.00	0.00	GRAVEL	RUBBLE
9	.10	0.00	0.00	GRAVEL	RUBBLE
9	.30	.10	.06	GRAVEL	RUBBLE
9	.40	.18	.14	GRAVEL	COBBLE
9	.40	.10	.08	GRAVEL	COBBLE
9	.50	.15	.15	RUBBLE	COBBLE
9	.40	.15	.12	COBBLE	GRAVEL
9	.50	.12	.12	COBBLE	GRAVEL
9	.50	.15	.15	COBBLE	GRAVEL
9	.40	.10	.08	GRAVEL	COBBLE
9	.35	.18	.13	COBBLE	RUBBLE
9	.35	.18	.13	RUBBLE	
9	.40	.20	.16	RUBBLE	BOULDER
9	.40	.28	.22	RUBBLE	BOULDER
9	.60	.30	.36	BOULDER	RUBBLE
9	.95	.25	.48	GRAVEL	COBBLE
9	1.10	.30	.66	SAND	RUBBLE
9	1.10	.34	.75	RUBBLE	COBBLE
9	.90	.30	.54	GRAVEL	BOULDER
9	.75	.20	.30	RUBBLE	COBBLE
9	.80	.20	.32	GRAVEL	COBBLE
9	.65	.20	.26	GRAVEL	COBBLE
9	.50	.15	.15	COBBLE	RUBBLE
9	.30	.20	.12	COBBLE	
9	.60	.10	.12	BOULDER	RUBBLE
9	.60	.13	.16	RUBBLE	COBBLE
9	.50	.10	.10	GRAVEL	RUBBLE
9	.40	.15	.12	COBBLE	RUBBLE
9	0.00	0.00	0.00	COBBLE	BOULDER
10	.30	0.00	0.00	SILT	
10	.30	.05	.03	SILT	GRAVEL
10	.40	.02	.02	COBBLE	RUBBLE
10	.30	.01	.01	GRAVEL	RUBBLE
10	.40	0.00	0.00	GRAVEL	RUBBLE
10	.40	.05	.04	GRAVEL	COBBLE
10	.50	.05	.05	GRAVEL	SILT
10	.50	.10	.10	RUBBLE	GRAVEL
10	.65	.08	.10	RUBBLE	GRAVEL
10	.70	.04	.06	RUBBLE	BOULDER
10	.60	.04	.05	GRAVEL	COBBLE
10	.60	.04	.05	GRAVEL	BOULDER
10	.30	0.00	0.00	GRAVEL	BOULDER
10	.30	.01	.01	GRAVEL	SAND
10	.50	.01	.01	SAND	GRAVEL
10	.60	.09	.11	SAND	GRAVEL

Table 4-B-8. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
10	.50	.11	.11	SAND	GRAVEL
10	.60	.12	.14	SAND	RUBBLE
10	.60	.12	.14	SAND	RUBBLE
10	.70	.20	.28	SAND	
10	.80	.22	.35	SAND	
10	.95	.20	.38	SAND	RUBBLE
10	1.00	.20	.40	RUBBLE	COBBLE
10	1.15	.20	.46	COBBLE	SAND
10	1.15	.20	.46	RUBBLE	COBBLE
10	1.45	.22	.51	RUBBLE	COBBLE
10	1.10	.21	.46	RUBBLE	COBBLE
10	.90	.24	.43	RUBBLE	COBBLE
10	1.00	.20	.40	RUBBLE	BOULDER
10	.70	.20	.28	RUBBLE	COBBLE
10	.60	.12	.14	RUBBLE	COBBLE
10	.60	.18	.22	RUBBLE	COBBLE
10	.45	.10	.09	RUBBLE	COBBLE
10	.35	0.00	0.00	RUBBLE	COBBLE
10	.30	.03	.18	RUBBLE	COBBLE
10	.05	0.00	0.00	RUBBLE	COBBLE
11	.05	0.00	0.00	COBBLE	RUBBLE
11	.10	0.00	0.00	COBBLE	
11	.40	0.00	0.00	COBBLE	RUBBLE
11	0.00	0.00	0.00	COBBLE	
11	.45	0.00	0.00	COBBLE	
11	.45	0.00	0.00	GRAVEL	COBBLE
11	.35	0.00	0.00	RUBBLE	COBBLE
11	.15	0.00	0.00	RUBBLE	
11	.20	0.00	0.00	RUBBLE	SILT
11	.20	0.00	0.00	COBBLE	SILT
11	.25	0.00	0.00	SILT	RUBBLE
11	.25	.03	.02	SAND	RUBBLE
11	.10	0.00	0.00	SAND	
11	.20	.01	0.00	SAND	
11	.45	.08	.07	SAND	
11	.80	.10	.16	COBBLE	SAND
11	1.15	.10	.23	RUBBLE	SAND
11	1.30	.20	.52	SAND	COBBLE
11	1.60	.28	.90	RUBBLE	SAND
11	1.65	.34	1.12	COBBLE	BOULDER
11	1.45	.45	1.31	GRAVEL	COBBLE
11	1.40	.30	.84	RUBBLE	COBBLE
11	1.15	.29	.67	COBBLE	RUBBLE
11	1.05	.22	.46	RUBBLE	COBBLE
11	.70	.20	.28	RUBBLE	GRAVEL

Table 4-B-8. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
11	.30	0.00	0.00	GRAVEL	COBBLE
A				COBBLE	RUBBLE
A	.20	0.00	0.00	COBBLE	RUBBLE
A	.50	.02	.02	COBBLE	RUBBLE
A	.20	0.00	0.00	COBBLE	RUBBLE
A	.40	.02	.02	COBBLE	SILT
A	1.60	.05	.16	COBBLE	SILT
A	1.75	.10	.35	RUBBLE	SILT
A	1.80	.10	.36	RUBBLE	SILT
A	2.00	.10	.40	RUBBLE	SILT
A	2.00	.10	.40	RUBBLE	COBBLE
A	1.80	.05	.18	RUBBLE	COBBLE
A	1.80	.10	.36	RUBBLE	SILT
A	1.80	.10	.36	RUBBLE	SILT
A	1.70	.10	.34	RUBBLE	SILT
A	1.50	.05	.15	SILT	RUBBLE
A	1.30	.03	.08	SILT	RUBBLE
A	1.20	.10	.24	RUBBLE	SILT
A	1.20	.10	.24	RUBBLE	SILT
A	1.05	.05	.11	RUBBLE	SILT
A	1.00	.02	.04	SILT	RUBBLE
A	.90	.05	.09	RUBBLE	COBBLE
A	.80	0.00	0.00	RUBBLE	SILT
A	.80	.10	.16	RUBBLE	SILT
A	.60	.10	.12	SILT	GRAVEL
A	.70	0.00	0.00	SILT	GRAVEL
A	.70	0.00	0.00	RUBBLE	SILT
A	.50	0.00	0.00	COBBLE	SILT
A	.50	0.00	0.00	SILT	RUBBLE
A	.40	0.00	0.00	RUBBLE	SILT
A	.30	0.00	0.00	RUBBLE	SILT
A	.30	0.00	0.00	SILT	GRAVEL
A	.40	0.00	0.00	SILT	GRAVEL
A	.40	0.00	0.00	RUBBLE	SILT
A	.40	0.00	0.00	GRAVEL	SILT
A	.50	0.00	0.00	SILT	GRAVEL
A	.50	0.00	0.00	SILT	GRAVEL
A	.50	0.00	0.00	GRAVEL	SILT
A	.60	0.00	0.00	SILT	GRAVEL
A	.75	0.00	0.00	GRAVEL	SILT
A	1.00	0.00	0.00	GRAVEL	SILT
A	1.30	0.00	0.00	SILT	GRAVEL
B	.10	.02	0.00	GRAVEL	COBBLE
B	.30	.40	.24	GRAVEL	COBBLE
B	.30	.80	.47	GRAVEL	COBBLE

Table 4-B-8. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
B	.40	.90	.72	GRAVEL	RUBBLE
B	.30	.40	.24	RUBBLE	COBBLE
B	.30	1.35	.77	COBBLE	RUBBLE
B	.30	1.00	.45	COBBLE	RUBBLE
B	.30	1.05	.61	RUBBLE	COBBLE
B	.35	.60	.38	GRAVEL	RUBBLE
B	.40	1.15	.92	GRAVEL	COBBLE
B	.30	.40	.18	GRAVEL	COBBLE
C	.10	0.00	0.00	SAND	COBBLE
C	.40	.15	.12	GRAVEL	SAND
C	.50	.20	.20	GRAVEL	
C	.50	.20	.20	GRAVEL	RUBBLE
C	.65	.25	.33	GRAVEL	RUBBLE
C	.80	.22	.35	GRAVEL	RUBBLE
C	.55	.20	.22	RUBBLE	GRAVEL
C	.60	.18	.22	RUBBLE	GRAVEL
C	.70	.19	.27	GRAVEL	RUBBLE
C	.70	.18	.25	GRAVEL	COBBLE
C	.45	.16	.14	COBBLE	SAND
C	.50	.10	.10	GRAVEL	SAND
C	.40	.10	.08	RUBBLE	COBBLE
C	.35	.10	.07	GRAVEL	RUBBLE
C	.35	0.00	0.00	GRAVEL	COBBLE
C	.30	0.00	0.00	GRAVEL	SAND
C	.25	0.00	0.00	GRAVEL	SAND
C	.35	0.00	0.00	GRAVEL	SAND

Table 4-B-9. Hydraulic habitat variables collected
at transects in Slough 8A, Sep 19, 1982.

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1	.70	0.00	0.00	SILT	
1	1.05	0.00	0.00	SILT	
1	1.20	0.00	0.00	SILT	
1	1.20	.05	.12	SILT	
1	1.30	.05	.13	SILT	
1	1.30	.10	.26	SILT	
1	1.40	.10	.28	SILT	
1	1.40	.10	.28	SILT	
1	1.50	.10	.30	SILT	COBBLE
1	1.70	.10	.34	SILT	COBBLE
1	1.70	.10	.34	SILT	
1	1.65	.10	.33	SILT	COBBLE
1	1.80	.10	.36	SILT	COBBLE
1	1.80	.10	.36	SILT	
1	1.90	.20	.76	SILT	
1	1.80	.20	.72	SILT	
1	1.85	.30	1.11	SILT	
1	1.90	.20	.76	SILT	
1	1.90	.35	1.33	SILT	
1	1.80	.30	1.08	SILT	
1	1.80	.40	1.44	SILT	
1	1.70	.45	1.53	SILT	COBBLE
1	1.75	.30	1.05	SILT	COBBLE
1	1.65	.30	.99	SILT	COBBLE
1	1.50	.35	1.05	SILT	COBBLE
1	1.35	.30	.81	SILT	COBBLE
1	1.30	.25	.65	SILT	RUBBLE
1	1.30	.20	.52	SILT	RUBBLE
1	1.30	.20	.52	SILT	RUBBLE
1	1.30	.20	.52	SILT	RUBBLE
1	1.10	.20	.44	SILT	GRAVEL
1	1.10	.15	.33	SILT	GRAVEL
1	1.10	.15	.33	SILT	GRAVEL
1	1.00	.10	.20	SILT	GRAVEL
1	1.00	.10	.20	SILT	GRAVEL
1	.90	.10	.18	SILT	GRAVEL
1	1.00	.10	.20	SILT	
1	.80	.10	.16	SILT	
1	.65	.05	.07	SILT	
1	.60	0.00	0.00	SILT	
1	.40	0.00	0.00	SILT	
1	.20	0.00	0.00	SILT	
1				SILT	
2	.60	.15	.18	SILT	COBBLE

Table 4-B-9. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
2	.80	.20	.32	SILT	COBBLE
2	.80	.25	.40	SILT	COBBLE
2	.80	.20	.32	COBBLE	
2	.70	.25	.35	COBBLE	
2	.65	.30	.39	COBBLE	
2	.60	.50	.60	COBBLE	
2	.80	.50	.80	COBBLE	
2	1.10	.50	1.10	COBBLE	
2	1.50	.60	1.80	COBBLE	
2	1.70	.70	2.38	RUBBLE	
2	1.70	.80	2.72	RUBBLE	
2	1.90	.75	2.85	SILT	RUBBLE
2	1.80	.70	2.52	SILT	RUBBLE
2	1.80	.45	1.62	SILT	
2	1.90	.35	1.33	SILT	
2	1.90	.05	.19	SILT	RUBBLE
2	2.10	.20	.84	SILT	
2	2.20	.05	.22	SILT	
2	2.10	0.00	0.00	SILT	
2	2.00	.10	.40	SILT	RUBBLE
2	1.90	0.00	0.00	SILT	RUBBLE
2	1.90	0.00	0.00	SILT	RUBBLE
2	1.70	0.00	0.00	SILT	RUBBLE
2	1.60	0.00	0.00	SILT	
2	1.50	0.00	0.00	SILT	
2	1.50	0.00	0.00	SILT	
2	1.30	0.00	0.00	SILT	
2	1.40	0.00	0.00	SILT	
2	1.30	.10	.26	SILT	
2	1.30	.10	.26	SILT	
2	1.20	.05	.12	SILT	
2	1.00	0.00	0.00	SILT	
2	.25	0.00	0.00	SILT	
3	.90	0.00	0.00	SILT	COBBLE
3	1.00	.20	.40	SILT	COBBLE
3	1.20	.15	.36	SILT	RUBBLE
3	1.20	.20	.48	SILT	COBBLE
3	1.40	.20	.56	SILT	RUBBLE
3	1.30	.20	.52	SILT	
3	1.20	.20	.78	SILT	
3	1.20	.15	.36	SILT	RUBBLE
3	1.20	.15	.36	SILT	RUBBLE
3	1.10	0.00	0.00	SILT	RUBBLE
3	1.10	0.00	0.00	SILT	RUBBLE
3	1.10	0.00	0.00	SILT	RUBBLE

Table 4-B-9. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
3	1.10	.05	.11	SILT	RUBBLE
3	1.00	0.00	0.00	SILT	RUBBLE
3	1.20	0.00	0.00	SILT	RUBBLE
3	1.10	0.00	0.00	SILT	RUBBLE
3	1.10	0.00	0.00	SILT	RUBBLE
3	.90	0.00	0.00	SILT	RUBBLE
3	.40	0.00	0.00	SILT	RUBBLE
3	.30	0.00	0.00	SILT	RUBBLE
3	.30	0.00	0.00	SILT	RUBBLE
3	.30	.05	.03	SILT	RUBBLE
3	.30	.10	.06	SILT	RUBBLE
3	.50	.20	.20	RUBBLE	
3	.50	.50	.50	RUBBLE	
3	.60	.50	.60	RUBBLE	
3	.70	.60	.84	RUBBLE	
3	.75	1.20	1.80	RUBBLE	
3	.80	1.20	1.92	RUBBLE	
3	.80	1.00	1.60	RUBBLE	
3	.80	1.05	1.68	RUBBLE	
3	.80	1.00	1.60	RUBBLE	
3	.80	.90	1.44	RUBBLE	
3	.65	.90	1.17	RUBBLE	
3	.70	1.00	1.40	RUBBLE	
3	.70	.70	.98	RUBBLE	
3	.50	.90	.90	RUBBLE	
4				COBBLE	
4	.10	0.00	0.00	RUBBLE	
4	.10	0.00	0.00	RUBBLE	
4	.10	0.00	0.00	COBBLE	
4	.10	0.00	0.00	COBBLE	
4	.10	0.00	0.00	COBBLE	
4	.10	0.00	0.00	COBBLE	
4	.20	0.00	0.00	RUBBLE	SILT
4	.20	0.00	0.00	RUBBLE	
4	.60	.05	.06	RUBBLE	
4	1.00	.15	.30	RUBBLE	
4	1.40	.20	.56	RUBBLE	
4	1.70	.20	.68	RUBBLE	
4	1.70	.20	.68	RUBBLE	
4	2.00	.30	1.20	RUBBLE	
4	1.80	.30	1.08	RUBBLE	
4	1.85	.30	1.11	RUBBLE	
4	1.65	.30	.99	RUBBLE	
4	2.10	.40	1.68	RUBBLE	SILT
4	2.10	.40	1.68	RUBBLE	SILT

Table 4-B-9. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
4	2.15	.40	1.72	RUBBLE	SILT
4	2.00	.40	1.60	RUBBLE	SILT
4	1.60	.40	1.28	RUBBLE	SILT
4	1.80	.30	1.08	RUBBLE	SILT
4	1.90	.30	1.14	SILT	RUBBLE
4	1.60	.35	1.12	SILT	RUBBLE
4	1.50	.40	1.20	SILT	RUBBLE
4	1.10	.30	.66	SILT	RUBBLE
4	.90	.35	.63	SILT	RUBBLE
4	.80	.10	.16	SILT	RUBBLE
5	.65	0.00	0.00	SAND	
5	1.60	0.00	0.00	SAND	
5	2.30	0.00	0.00	SAND	
5	3.70	0.00	0.00	SAND	
5	4.50	0.00	0.00	SAND	
5	4.70	0.00	0.00	SAND	
5	4.80	0.00	0.00	GRAVEL	RUBBLE
5	5.00	.01	.10	GRAVEL	RUBBLE
5	5.20	.03	.31	GRAVEL	RUBBLE
5	5.30	.13	1.38	GRAVEL	RUBBLE
5	5.00	.18	1.80	GRAVEL	SAND
5	4.60	.20	1.84	GRAVEL	SAND
5	4.30	.32	2.72	GRAVEL	RUBBLE
5	3.90	.25	1.95	GRAVEL	RUBBLE
5	3.60	.25	1.80	SILT	RUBBLE
5	3.40	.20	1.36	SILT	RUBBLE
5	2.50	.20	1.00	SILT	RUBBLE
5	2.20	.25	1.10	SILT	RUBBLE
5	1.90	.20	.76	SILT	RUBBLE
5	1.70	.30	1.02	SILT	RUBBLE
5	1.90	.40	1.52	SILT	RUBBLE
5	2.00	.35	1.40	SILT	RUBBLE
5	1.80	.40	1.44	SILT	RUBBLE
5	1.50	.20	.60	SILT	RUBBLE
5	1.20	.30	.72	SILT	RUBBLE
5	1.10	.35	.77	SILT	RUBBLE
5	1.10	.20	.44	SILT	RUBBLE
5	1.00	.30	.60	SILT	RUBBLE
5	.70	.20	.28	SILT	COBBLE
5	.70	.20	.28	SILT	RUBBLE
5	1.00	.10	.20	SILT	RUBBLE
5	.60	0.00	0.00	SILT	RUBBLE
5	.50	0.00	0.00	SILT	RUBBLE
5	.50	.30	.30	SILT	RUBBLE
5	.50	.25	.25	SILT	RUBBLE

Table 4-B-9. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
6	.40	.20	.16	SILT	RUBBLE
6	.65	.35	.46	RUBBLE	
6	.70	.30	.42	SILT	RUBBLE
6	.70	.30	.42	SILT	RUBBLE
6	.70	.50	.70	RUBBLE	SILT
6	.50	.50	.50	RUBBLE	SILT
6	.60	.60	.72	RUBBLE	SILT
6	.70	.50	.70	RUBBLE	SILT
6	.65	.60	.78	RUBBLE	SILT
6	.60	.70	.84	RUBBLE	SILT
6	.60	.70	.84	RUBBLE	SILT
6	.70	.50	.70	RUBBLE	SILT
6	.80	.60	.96	RUBBLE	SILT
6	.80	.65	1.04	RUBBLE	SILT
6	.80	.45	.72	RUBBLE	SILT
6	.80	.75	1.20	RUBBLE	
6	.80	.90	1.44	RUBBLE	SILT
6	.80	.90	1.44	RUBBLE	SILT
6	.70	.80	1.12	RUBBLE	
6	.50	.60	.60	RUBBLE	SILT
6	.50	.80	.80	RUBBLE	SILT
6	.50	.50	.50	RUBBLE	SILT
6	.50	.80	.80	RUBBLE	SILT
6	.50	.70	.70	RUBBLE	SILT
6	.50	.50	.50	COBBLE	SILT
6	.50	.40	.40	RUBBLE	SILT
6	.30	.30	.18	COBBLE	SILT
7	.10	0.00	0.00	RUBBLE	SILT
7	.20	0.00	0.00	RUBBLE	SILT
7	.50	.20	.20	RUBBLE	SILT
7	.70	.70	.98	RUBBLE	SILT
7	.50	.90	.90	RUBBLE	
7	.20	1.00	.40	RUBBLE	
7	.30	1.15	.69	RUBBLE	
7	.30	.95	.57	RUBBLE	
7	.20	1.40	.56	RUBBLE	
7	.30	1.20	.72	RUBBLE	
7	.40	.40	.32	RUBBLE	
7	.40	.30	.24	RUBBLE	
7	.30	.60	.36	RUBBLE	
7	.30	1.40	.84	RUBBLE	
7	.50	.90	.90	COBBLE	
7	.60	.60	.72	RUBBLE	
7	.60	1.10	1.32	RUBBLE	
7	.60	1.25	1.50	RUBBLE	

Table 4-B-9. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
7	.50	1.90	1.90	RUBBLE	
7	.20	.50	.20	RUBBLE	
7	.50	2.10	2.10	RUBBLE	
7	.40	1.90	1.52	RUBBLE	
7	.20	1.90	.76	RUBBLE	
7	.30	.40	.24	RUBBLE	
7	.30	.20	.12	RUBBLE	SILT
7	.20	.70	.28	RUBBLE	SILT
7	.40	.85	.68	RUBBLE	SILT
7	.20	.55	.22	RUBBLE	SILT
7	.20	.70	.28	RUBBLE	SILT
7	.20	0.00	0.00	RUBBLE	SILT
7	.10	.20	.04	RUBBLE	SILT
7	.10	0.00	0.00	RUBBLE	SILT
7	.40	.50	.40	RUBBLE	SILT
7	.10	0.00	0.00	RUBBLE	SILT
7	.20	.50	.20	RUBBLE	SILT
7	.20	0.00	0.00	RUBBLE	SILT
8	.10	.20	0.00	GRAVEL	SILT
8	.50	.50	.50	RUBBLE	
8	.50	.40	.40	RUBBLE	SILT
8	.40	.60	.48	RUBBLE	SILT
8	.40	.65	.52	RUBBLE	SILT
8	.30	.80	.48	RUBBLE	SILT
8	.40	.70	.56	RUBBLE	SILT
8	.40	.60	.48	RUBBLE	SILT
8	.40	.60	.48	RUBBLE	SILT
8	.10	.60	.12	RUBBLE	SILT
8	.10	.30	.06	RUBBLE	SILT
8	.20	.60	.24	RUBBLE	SILT
8	.40	.65	.52	RUBBLE	SILT
8	.20	.90	.36	RUBBLE	SILT
8	.10	.50	.10	RUBBLE	SILT
3	.25	.40	.20	RUBBLE	SILT
3	.30	.50	.30	RUBBLE	SILT
3	.30	.50	.30	RUBBLE	SILT
3	.35	.40	.28	RUBBLE	
3	.40	.20	.16	RUBBLE	SILT
3	.40	.35	.28	RUBBLE	SILT
3	.60	.50	.60	SILT	RUBBLE
3	.75	.75	1.13	SILT	RUBBLE
3	1.10	.70	1.54	SILT	RUBBLE
3	.90	.70	1.26	SILT	RUBBLE
3	.90	.80	1.44	SILT	RUBBLE
3	.70	.90	1.26	RUBBLE	SILT

Table 4-B-9. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
8	.70	.80	1.12	RUBBLE	SILT
8	.60	.65	.78	RUBBLE	SILT
8	.60	.50	.60	RUBBLE	SILT
8	.60	.50	.60	RUBBLE	SILT
8	.50	.60	.60	RUBBLE	SILT
8	.10	.60	.48	RUBBLE	SILT
8	.30	.50	.30	RUBBLE	GRAVEL
8	.30	.40	.24	GRAVEL	SILT
8	.30	.50	.30	GRAVEL	SILT
8	.20	.15	.06	GRAVEL	SILT
8	.10	0.00	0.00	RUBBLE	SILT
8	.10	0.00	0.00	RUBBLE	SILT
9	.10	0.00	0.00	RUBBLE	SAND
9	.10	0.00	0.00	RUBBLE	SAND
9	.20	.10	.04	RUBBLE	SAND
9	.30	.20	.12	GRAVEL	SAND
9	.20	.30	.12	RUBBLE	SAND
9	.30	.30	.18	RUBBLE	SAND
9	.30	.30	.18	RUBBLE	SAND
9	.35	.30	.35	RUBBLE	
9	.50	.40	.40	RUBBLE	
9	.54	.60	.65	RUBBLE	
9	.50	.50	.50	RUBBLE	
9	.60	.25	.30	RUBBLE	SAND
9	.60	.20	.24	RUBBLE	SAND
9	.70	.40	.56	RUBBLE	SAND
9	.60	.50	.60	RUBBLE	SAND
9	.20	.45	.18	RUBBLE	SAND
9	.50	.40	.40	RUBBLE	SAND
9	.50	.60	.60	RUBBLE	SAND
9	.50	.60	.60	RUBBLE	SAND
9	.90	.40	.72	RUBBLE	SAND
9	1.00	.60	1.20	RUBBLE	SAND
9	1.10	.50	1.10	COBBLE	SAND
9	1.20	.50	1.20	COBBLE	SAND
9	1.20	.60	1.44	RUBBLE	SAND
9	1.10	.70	1.54	RUBBLE	SAND
9	1.00	.50	1.00	RUBBLE	SAND
9	1.00	.60	1.20	RUBBLE	SAND
9	.70	.50	.70	RUBBLE	SAND
9	.80	.30	.48	RUBBLE	SAND
9	.60	.50	.60	RUBBLE	
9	.40	.50	.40	RUBBLE	
9	.70	.45	.63	RUBBLE	
9	.60	.40	.48	RUBBLE	

Table 4-B-9. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
9	.50	.40	.40	RUBBLE	
9	.10	0.00	0.00	RUBBLE	
10	.30	0.00	0.00	SILT	
10	.60	0.00	0.00	SILT	COBBLE
10	.50	.10	.10	RUBBLE	SILT
10	.50	.05	.05	SILT	RUBBLE
10	.60	.10	.12	SILT	RUBBLE
10	.60	.10	.12	SILT	RUBBLE
10	.70	.10	.14	SILT	RUBBLE
10	.70	.05	.07	SILT	RUBBLE
10	.90	.05	.09	SILT	RUBBLE
10	1.00	.10	.20	SILT	RUBBLE
10	.75	0.00	0.00	SILT	RUBBLE
10	.60	.20	.24	SILT	RUBBLE
10	.50	.15	.15	SILT	
10	.65	.25	.33	SILT	
10	.80	.25	.40	SILT	
10	.70	.40	.56	SILT	
10	.70	.30	.42	SILT	
10	.70	.35	.49	SILT	
10	.80	.45	.72	SILT	RUBBLE
10	.90	.40	.72	SILT	
10	.90	.60	1.08	SILT	
10	1.10	.55	1.21	SILT	
10	1.10	.60	1.32	RUBBLE	SILT
10	1.30	.50	1.30	RUBBLE	SILT
10	1.40	.55	1.54	RUBBLE	SILT
10	1.40	.70	1.96	RUBBLE	SILT
10	1.10	.60	1.32	RUBBLE	SILT
10	1.20	.40	.96	RUBBLE	SILT
10	.80	.65	1.04	COBBLE	SILT
10	1.00	.35	.70	RUBBLE	SILT
10	.60	.45	.54	RUBBLE	SILT
10	.60	.45	.54	RUBBLE	SILT
10	.70	.30	.42	RUBBLE	SILT
10	.70	.10	.14	RUBBLE	
10	.50	.20	.20	RUBBLE	
10	.30	0.00	0.00	RUBBLE	
10	.10	0.00	0.00	RUBBLE	
11		0.00	0.00		
11	.10	0.00	0.00	RUBBLE	
11	.40	0.00	0.00	RUBBLE	
11	.50	0.00	0.00	RUBBLE	
11	.20	0.00	0.00	RUBBLE	
11	0.00	0.00	0.00	RUBBLE	

Table 4-B-9. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
11	.60	0.00	0.00	RUBBLE	
11	.40	0.00	0.00	RUBBLE	
11	0.00	0.00	0.00	RUBBLE	
11	0.00	0.00	0.00	RUBBLE	
11	0.00	0.00	0.00	RUBBLE	
11	.01	0.00	0.00	RUBBLE	
11	0.00	0.00	0.00	RUBBLE	
11	.04	0.00	0.00	SAND	
11	.50	.50	.50	SAND	
11	.40	.40	.32	SILT	RUBBLE
11	.50	.10	.10	SILT	RUBBLE
11	.40	.10	.08	SILT	
11	.40	.20	.16	SILT	
11	.40	.30	.24	SILT	
11	.60	.40	.48	SILT	
11	1.10	.35	.77	SILT	
11	1.30	.50	1.30	SILT	
11	1.40	.45	1.26	SILT	RUBBLE
11	1.60	.90	2.88	SILT	RUBBLE
11	1.90	.90	3.42	SILT	RUBBLE
11	1.70	.80	2.72	SILT	RUBBLE
11	1.50	.70	2.10	RUBBLE	SILT
11	1.50	.40	1.20	RUBBLE	SILT
11	1.70	.30	1.02	RUBBLE	SILT
11	.90	.20	.36	RUBBLE	
11	.50	0.00	0.00	RUBBLE	
11	.10	0.00	0.00		

Table 4-B-10. Hydraulic habitat variables collected
at transects in Slough 9, Aug 12, 1982.

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1				SILT	COBBLE
1	.40	0.00	0.00	SILT	COBBLE
1	.65	0.00	0.00	SILT	COBBLE
1	.70	0.00	0.00	SILT	COBBLE
1	.80	0.00	0.00	SILT	COBBLE
1	.65	0.00	0.00	SILT	COBBLE
1	.65	.07	.09	SILT	COBBLE
1	.60	.17	.10	SILT	COBBLE
1	.60	.10	.06	SILT	COBBLE
1	.65	.13	.08	SILT	COBBLE
1	.70	.24	.17	SILT	COBBLE
1	.60	.14	.09	SILT	COBBLE
1	.60	.16	.09	SILT	COBBLE
1	.75	.16	.12	SILT	COBBLE
1	.75	.17	.13	SILT	COBBLE
1	.60	.16	.10	SILT	COBBLE
1	.60	.22	.13	SILT	COBBLE
1	.60	.17	.10	SILT	COBBLE
1	.60	.26	.16	SILT	COBBLE
1	.70	.26	.18	SILT	COBBLE
1	.60	.17	.10	SILT	COBBLE
1	.55	.10	.06	SILT	COBBLE
1	.60	.16	.10	SILT	COBBLE
1	.55	.18	.10	SILT	COBBLE
1	.70	.21	.15	SILT	COBBLE
1	.75	.16	.12	SILT	COBBLE
1	.70	.23	.16	SILT	COBBLE
1	.70	.24	.33	SILT	COBBLE
1	.70	.29	.40	SILT	COBBLE
1	.70	.24	.34	SILT	COBBLE
1	.70	.30	.42	SILT	COBBLE
1	.70	.44	.62	SILT	COBBLE
1	.75	.47	.70	SILT	COBBLE
1	.65	.47	.62	SILT	COBBLE
1	.60	.43	.52	SILT	COBBLE
1	.55	.38	.41	SILT	COBBLE
1	.35	.30	.21	SILT	COBBLE
1	.25	.23	.12	SILT	COBBLE
1	.15	0.00	0.00	SILT	COBBLE
1	.05	0.00	0.00	SILT	COBBLE
1	.05	0.00	0.00	SILT	COBBLE
1		0.00	0.00	SILT	COBBLE
2				SILT	COBBLE
2	.45	.45	.31	SILT	COBBLE

Table 4-B-10. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
2	.55	.40	.43	SILT	COBBLE
2	.40	.31	.25	SILT	COBBLE
2	.45	0.00	0.00	SILT	COBBLE
2	.60	0.00	0.00	SILT	COBBLE
2	.50	0.00	0.00	SILT	COBBLE
2	.30	0.00	0.00	SILT	COBBLE
2	.40	0.00	0.00	SILT	COBBLE
2	.30	0.00	0.00	SILT	COBBLE
2	.60	.22	.26	SILT	COBBLE
2	.55	.15	.16	SILT	COBBLE
2	.80	.40	.64	SILT	COBBLE
2	.70	.36	.50	SILT	COBBLE
2	.55	.64	.70	SILT	COBBLE
2	.50	.41	.41	SILT	COBBLE
2	.50	.60	.60	SILT	COBBLE
2	.50	.44	.44	SILT	COBBLE
2	.30	.51	.31	SILT	COBBLE
2	.40	.54	.43	SILT	COBBLE
2	.30	.35	.21	SILT	COBBLE
2	.40	.26	.21	SILT	COBBLE
2	.20	0.00	0.00	SILT	COBBLE
2	.30	.37	.22	SILT	COBBLE
2	.20	.30	.12	SILT	COBBLE
2	.10	0.00	0.00	SILT	COBBLE
2	.10	0.00	0.00	SILT	COBBLE
2	.20	.12	.05	SILT	COBBLE
2	.05	0.00	0.00	SILT	COBBLE
2	.20	0.00	0.00	SILT	COBBLE
3	.01	0.00	0.00		
3	.01	0.00	0.00		
3	0.00	0.00	0.00		
3	.10	0.00	0.00		
3	.20	0.00	0.00		
3	.30	0.00	0.00		
3	.40	.16	.13		
3	.40	.15	.12		
3	.35	0.00	0.00		
3	.35	.14	.10		
3	.45	.31	.25		
3	.55	.20	.20		
3	.60	.38	.42		
3	.55	.78	.82		
3	.50	.70	.68		
3	.50	.67	.65		
3	.40	1.09	.85		

Table 4-B-10. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
3	.25	.76	.35		
3	.25	0.00	0.00		
3	.25	.93	.46		
3	.20	.66	.26		
3	.20	1.01	.40		
3	.20	.47	.19		
3	.10	.95	.19		
3	.20	.35	.14		
3	.20	.72	.29		
3	.20	.73	.29		
3	.15	.65	.20		
3	.15	.58	.18		
3	.15	.42	.13		
3	.20	.40	.16		
3	.20	.20	.08		
3	.10	0.00	0.00		
3	.15	.05	.15		
3	.10	0.00	0.00		
3	.10	0.00	0.00		
3	.10	0.00	0.00		
3	0.00	0.00	0.00		
3	.10	0.00	0.00		
3	.05	0.00	0.00		
3	.05	0.00	0.00		
3	0.00	0.00	0.00		
4	.10			COBBLE	RUBBLE
4	.10			COBBLE	RUBBLE
4	.15	.06	.02	COBBLE	RUBBLE
4	.15	.05	.01	COBBLE	RUBBLE
4	.20	.14	.04	COBBLE	RUBBLE
4	.20	.56	.11	COBBLE	RUBBLE
4	.15	.51	.06	COBBLE	RUBBLE
4	.20	.66	.26	COBBLE	RUBBLE
4	.10	.08	.02	COBBLE	RUBBLE
4	0.00	0.00	0.00	COBBLE	RUBBLE
4	0.00	0.00	0.00	COBBLE	RUBBLE
4	.05	0.00	0.00	COBBLE	RUBBLE
4	.05	0.00	0.00	COBBLE	RUBBLE
4	.15	.46	.12	COBBLE	RUBBLE
4	.10	.55	.10	COBBLE	RUBBLE
4	.10	.50	.10	COBBLE	RUBBLE
4	.15	.46	.13	COBBLE	RUBBLE
4	.15	.42	.12	COBBLE	RUBBLE
4	.15	.95	.28	COBBLE	RUBBLE
4	.15	.24	.07	COBBLE	RUBBLE

Table 4-B-10. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
4	.15	.91	.26	COBBLE	RUBBLE
4	.20	1.02	.40	COBBLE	RUBBLE
4	.20	1.48	.59	COBBLE	RUBBLE
4	.20	1.67	.67	COBBLE	RUBBLE
4	.20	1.02	.41	COBBLE	RUBBLE
4	.20	1.90	.76	COBBLE	RUBBLE
4	.20	1.58	.63	COBBLE	RUBBLE
4	.20	.96	.38	COBBLE	RUBBLE
4	.15	1.05	.31	COBBLE	RUBBLE
4	.10	0.00	0.00	COBBLE	RUBBLE
4	.05	0.00	0.00	COBBLE	RUBBLE
4	.05	0.00	0.00	COBBLE	RUBBLE
4	.10	1.37	.27	COBBLE	RUBBLE
4	.05	0.00	0.00	COBBLE	RUBBLE
4	.05	0.00	0.00	COBBLE	RUBBLE
4	.05	0.00	0.00	COBBLE	RUBBLE
4	.05	0.00	0.00	COBBLE	RUBBLE
4	.15	.20	.06	COBBLE	RUBBLE
5	0.00	0.00		COBBLE	RUBBLE
5	.10	0.00	0.00	COBBLE	RUBBLE
5	.20	0.00	0.00	COBBLE	RUBBLE
5	.30	0.00	0.00	COBBLE	RUBBLE
5	.45	0.00	0.00	COBBLE	RUBBLE
5	.45	0.00	0.00	COBBLE	RUBBLE
5	.45	0.00	0.00	COBBLE	RUBBLE
5	.40	0.00	0.00	COBBLE	RUBBLE
5	.30	0.00	0.00	COBBLE	RUBBLE
5	.25	0.00	0.00	COBBLE	RUBBLE
5	.10	0.00	0.00	COBBLE	RUBBLE
5	0.00	0.00	0.00	COBBLE	RUBBLE
5	0.00	0.00	0.00	COBBLE	RUBBLE
5	.05	0.00	0.00	COBBLE	RUBBLE
5	0.00	0.00	0.00	COBBLE	RUBBLE
5	.05	0.00	0.00	COBBLE	RUBBLE
5	.05	0.00	0.00	COBBLE	RUBBLE
5	.10	.41	.08	COBBLE	RUBBLE
5	.15	.55	.16	COBBLE	RUBBLE
5	.15	.55	.16	COBBLE	RUBBLE
5	.25	.52	.26	COBBLE	RUBBLE
5	.30	.73	.44	COBBLE	RUBBLE
5	.40	.91	.72	COBBLE	RUBBLE
5	.30	.83	.50	COBBLE	RUBBLE
5	.20	.93	.37	COBBLE	RUBBLE
5	.25	.95	.48	COBBLE	RUBBLE
5	.30	1.02	.61	COBBLE	RUBBLE

Table 4-B-10. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
5	.20	.71	.28	COBBLE	RUBBLE
5	.40	.42	.33	COBBLE	RUBBLE
5	.20	.25	.10	COBBLE	RUBBLE
5	.30	.29	.16	COBBLE	RUBBLE
5	.30	.19	.11	COBBLE	RUBBLE
5	.30	.01	.01	COBBLE	RUBBLE
5	.30	0.00	0.00	COBBLE	RUBBLE
5	.30	0.00	0.00	COBBLE	RUBBLE
5	.25	0.00	0.00	COBBLE	RUBBLE
5	.30	0.00	0.00	COBBLE	RUBBLE
5	.30	0.00	0.00	COBBLE	RUBBLE
5	.05	0.00	0.00	COBBLE	RUBBLE
5			0.00	COBBLE	RUBBLE
6	.10				
6	.15	.20	.06		
6	.25	.07	.03		
6	.35	.13	.09		
6	.30	.21	.13		
6	.35	.13	.09		
6	.35	0.00	0.00		
6	.45	.23	.20		
6	.45	.23	.20		
6	.40	.23	.19		
6	.50	.33	.33		
6	.50	.06	.06		
6	.70	.23	.32		
6	.85	.15	.24		
6	.95	.03	.05		
6	1.00	.32	.64		
6	1.00	.33	.67		
6	1.05	.39	.82		
6	.50	0.00	0.00		
6	.40	.13	.10		
6	.45	.19	.17		
6	.50	.14	.14		
6	.50	.11	.11		
6	.35	.03	.02		
6	0.00	0.00	0.00		
7			0.00		
7	.10	0.00	0.00	SAND	COBBLE
7	.10	0.00	0.00	SAND	COBBLE
7	.20	0.00	0.00	SAND	COBBLE
7	.35	0.00	0.00	SAND	COBBLE
7	.30	0.00	0.00	SAND	COBBLE
7	.40	0.00	0.00	SAND	COBBLE

Table 4-B-10. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
7	.45	0.00	0.00	SAND	COBBLE
7	.40	0.00	0.00	SAND	COBBLE
7	.65	0.00	0.00	SAND	COBBLE
7	.70	0.00	0.00	SAND	COBBLE
7	.80	0.00	0.00	SAND	COBBLE
7	.60	0.00	0.00	SAND	COBBLE
7	.60	.10	.12	SAND	COBBLE
7	.65	.13	.16	SAND	COBBLE
7	.65	.16	.21	SAND	COBBLE
7	.60	.17	.20	SAND	COBBLE
7	.55	.10	.11	SAND	COBBLE
7	.60	.19	.22	SAND	COBBLE
7	.50	0.00	0.00	SAND	COBBLE
7	.40	.17	.13	SAND	COBBLE
7	.35	.16	.11	SAND	COBBLE
7	.40	.14	.11	SAND	COBBLE
7	.40	.07	.06	SAND	COBBLE
7	.55	.07	.08	SAND	COBBLE
7	.55	.07	.74	SAND	COBBLE
7	.60	.11	.16	SAND	COBBLE
7	.70	.12	.18		
7	.70	.09	.15		
7	.65	.06	.11		
7	.70	0.00	0.00		
7	.75	.11	.11		
7	.80	0.00	0.00		
7	.90	0.00			
7	.70	0.00			
7	.50	0.00			
7	.30	0.00			
7	0.00				
8	.20	0.00	0.00		
8	.30	0.00	0.00		
8	.50	0.00	0.00		
8	.60	0.00	0.00		
8	.90	0.00	0.00		
9	.10				
9	.20	0.00	0.00		
9	.30	0.00	0.00		
9	.40	0.00	0.00		
9	.60	0.00	0.00		
9	.60	0.00	0.00		
9	.80	0.00	0.00		
9	1.00	0.00	0.00		
9	1.30	0.00	0.00		

Table 4-B-10. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
9	1.50	0.00	0.00		
9	1.50	0.00	0.00		
9	1.50	0.00	0.00		
9	1.40	0.00	0.00		
9	1.40	0.00	0.00		
9	1.40	0.00	0.00		
9	1.40	0.00	0.00		
9	1.40	0.00	0.00		
9	1.50	0.00	0.00		
9	1.40	0.00	0.00		
9	1.30	0.00	0.00		
9	1.30	0.00	0.00		
9	1.50	0.00	0.00		
9	1.30	0.00	0.00		
9	1.20	0.00	0.00		
9	1.40	0.00	0.00		
9	1.50	0.00	0.00		
9	1.70	0.00	0.00		
9	2.30	0.00	0.00		
9	2.90	0.00	0.00		
9	3.40	0.00	0.00		
9	3.10	0.00	0.00		
9	2.40	0.00	0.00		
9	1.70	0.00	0.00		

Table 4-B-11. Hydraulic habitat variables collected
at transects in Slough 9, Aug 25, 1982.

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1				SAND	
1	.20	.10	.01	COBBLE	RUBBLE
1	.50	.05	.05	COBBLE	RUBBLE
1	.60	.10	.12	COBBLE	RUBBLE
1	.60	0.00	0.00	COBBLE	RUBBLE
1	.60	.08	.10	COBBLE	RUBBLE
1	.55	.10	.11	COBBLE	RUBBLE
1	.60	.10	.12	COBBLE	RUBBLE
1	.70	.12	.17	COBBLE	RUBBLE
1	.75	.10	.15	COBBLE	RUBBLE
1	.70	.12	.17	COBBLE	RUBBLE
1	.70	.12	.17	COBBLE	RUBBLE
1	.60	.12	.14	COBBLE	RUBBLE
1	.50	.10	.10	COBBLE	RUBBLE
1	.60	.05	.06	COBBLE	RUBBLE
1	.70	.10	.14	COBBLE	RUBBLE
1	.55	.10	.11	COBBLE	RUBBLE
1	.50	.10	.10	COBBLE	RUBBLE
1	.60	.15	.18	COBBLE	RUBBLE
1	.60	.12	.14	COBBLE	RUBBLE
1	.60	.22	.26	COBBLE	RUBBLE
1	.70	.25	.35	SAND	
1	.70	.28	.39	SAND	
1	.70	.30	.42	SAND	
1	.60	.25	.30	SAND	
1				SAND	
1	.40	.15	.12	SAND	
1	.30	.08	.05	SAND	
1	.20	0.00	0.00	SAND	
1	.10	0.00	0.00	SAND	
1		0.00	0.00	SAND	
2				SAND	
2	.30	.20	.03	SAND	
2	.40	.30	.24	GRAVEL	RUBBLE
2	.40	.12	.10	GRAVEL	RUBBLE
2	.40	.03	.02	GRAVEL	RUBBLE
2	.50	.05	.05	GRAVEL	RUBBLE
2	.40	0.00	0.00	GRAVEL	RUBBLE
2	.25	0.00	0.00	GRAVEL	RUBBLE
2	.30	0.00	0.00	GRAVEL	RUBBLE
2	.40	.05	.04	GRAVEL	RUBBLE
2	.50	.20	.20	GRAVEL	RUBBLE
2	.50	.05	.05	GRAVEL	RUBBLE
2	.70	.22	.31	GRAVEL	RUBBLE

Table 4-B-11. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
2	.60	.35	.42	GRAVEL	RUBBLE
2	.50	.50	.50	GRAVEL	RUBBLE
2	.50	.30	.30	GRAVEL	RUBBLE
2	.35	.35	.25	GRAVEL	RUBBLE
2	.45	.30	.27	GRAVEL	RUBBLE
2	.30	.20	.12	GRAVEL	RUBBLE
2	.30	.15	.09	GRAVEL	RUBBLE
2	.40	.20	.16	GRAVEL	RUBBLE
2	.20	.10	.04	GRAVEL	RUBBLE
2	.10	0.00	0.00	GRAVEL	RUBBLE
2	.10	0.00	0.00	GRAVEL	RUBBLE
2	.10	0.00	0.00	GRAVEL	RUBBLE
2	.10	0.00	0.00	GRAVEL	RUBBLE
4			0.00	GRAVEL	RUBBLE
4	.10	0.00	0.00	GRAVEL	RUBBLE
4	.10	0.00	0.00	GRAVEL	RUBBLE
4	.10	0.00	0.00	GRAVEL	RUBBLE
4	.20	.30	.09	GRAVEL	RUBBLE
4	.30	.48	.17	GRAVEL	RUBBLE
4	.10	.40	0.00	SAND	
4	.20	.30	.01	SAND	
4	0.00		0.00		
4	0.00		0.00	GRAVEL	
4	.10	0.00	0.00	GRAVEL	
4	.10	0.00	0.00	GRAVEL	
4	.20	.20	.08	GRAVEL	
4	.10	0.00	0.00	GRAVEL	
4	.10	0.00	0.00	GRAVEL	
4	.10	.40	.08	GRAVEL	
4	.10	.40	.08	GRAVEL	
4	.20	.65	.26	GRAVEL	
4	.20	.60	.24	GRAVEL	
4	.20	.60	.24	GRAVEL	
4	.20	.98	.39	GRAVEL	
4	.25	.85	.43	GRAVEL	
4	.20	.60	.23	GRAVEL	
4	.10	.25	.05	GRAVEL	
4	.10	.15	.03	GRAVEL	
4				GRAVEL	
4	.10	.20	.04	GRAVEL	RUBBLE
4	.10	.10	.02	GRAVEL	RUBBLE
4	.10	.30	.06	GRAVEL	RUBBLE
4	.10	.35	.07	GRAVEL	RUBBLE
4	.10	0.00	0.00	GRAVEL	RUBBLE
4	.10	0.00	0.00	GRAVEL	RUBBLE

Table 4-B-11. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
4	.10	.10	.02	GRAVEL	RUBBLE
6	0.00	0.00		SAND	
6	.10	0.00	0.00	SAND	RUBBLE
6	.10	0.00	0.00	GRAVEL	RUBBLE
6	.10	.02	0.00	GRAVEL	RUBBLE
6	.20	.10	0.00	GRAVEL	RUBBLE
6	.30	.20	.12	GRAVEL	RUBBLE
6	.35	.05	.04	GRAVEL	RUBBLE
6	.35	.10	.07	RUBBLE	COBBLE
6	.40	.15	.12	RUBBLE	COBBLE
6	.30	.12	.07	RUBBLE	COBBLE
6	.50	.10	.10	RUBBLE	COBBLE
6	.55	.15	.17	RUBBLE	COBBLE
6	.55	.15	.17	RUBBLE	COBBLE
6	.70	.15	.21	RUBBLE	COBBLE
6	.80	.18	.29	RUBBLE	COBBLE
6	1.00	.20	.40	RUBBLE	COBBLE
6	.90	.22	.40	RUBBLE	COBBLE
6	.95	.22	.42	RUBBLE	COBBLE
6	.60	.10	.12	RUBBLE	COBBLE
6	.40	.15	.12	RUBBLE	COBBLE
6	.35	.08	.06	RUBBLE	COBBLE
6	.50	.08	.08	RUBBLE	COBBLE
6	.45	.05	.05	RUBBLE	COBBLE
6	.30	0.00	0.00	RUBBLE	COBBLE
6		0.00	0.00	RUBBLE	COBBLE
7	0.00	0.00	0.00	SAND	RUBBLE
7	.10	0.00	0.00	SAND	RUBBLE
7	.20	0.00	0.00	SAND	RUBBLE
7	.20	0.00	0.00	SAND	RUBBLE
7	.30	0.00	0.00	SAND	RUBBLE
7	.40	0.00	0.00	SAND	RUBBLE
7	.40	0.00	0.00	SAND	RUBBLE
7	.40	.02	.02	SAND	RUBBLE
7	.45	.02	.02	SAND	RUBBLE
7	.55	.02	.02	SAND	RUBBLE
7	.65	.02	.03	SAND	RUBBLE
7	.65	.05	.07	SAND	RUBBLE
7	.50	.08	.08	SAND	RUBBLE
7	.50	.05	.05	SAND	RUBBLE
7	.55	.10	.11	SAND	RUBBLE
7	.60	.08	.10	SAND	RUBBLE
7	.55	.10	.11	SAND	RUBBLE
7	.55	.10	.11	SAND	RUBBLE
7	.50	.10	.10	SAND	RUBBLE

Table 4-B-11. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
7	.50	.10	.10	SAND	RUBBLE
7	.45	.10	.09	SAND	RUBBLE
7	.45	.10	.09	SAND	RUBBLE
7	.30	.10	.06	SAND	RUBBLE
7	.25	.05	.03	SAND	RUBBLE
7	.25	.02	.01	SAND	RUBBLE
7	.45	.01	.01	SAND	
7	.50	.05	.05	SAND	
7	.60	.08	.01	SAND	
7	.65	.08	.10	SAND	
7	.65	.08	.10	SAND	
7	.65	.08	.10	SAND	
7	.70	.08	.11	SAND	
7	.60	.10	.12	SAND	
7	.70	.10	.14	SAND	
7	.75	.10	.15	SAND	
7	.80	.10	.16	SAND	
7	.75	.10	.15	SAND	
7	.55	.10	.11	SAND	
7	.30	0.00	0.00	SAND	
7	.20	0.00	0.00	SAND	
7				SAND	
8				SAND	
8	.20	0.00	0.00	SAND	
8	.35	0.00	0.00	SAND	
8	.55	0.00	0.00	SAND	
8	.80	0.00	0.00	SAND	
8	1.00	.05	.10	SAND	
8	1.15	.08	.18	SAND	
8	1.30	.05	.13	SAND	
8	1.50	.05	.15	SAND	
8	1.70	.05	.17	SAND	
8	1.80	.05	.18	SAND	
8	1.70	.03	.10	SAND	
8	1.70	.05	.17	SAND	
8	1.30	.05	.13	SAND	
8	1.80	0.00	0.00	SAND	
8	1.90	.05	.19	SAND	
8	2.10	.02	.08	SAND	
8	2.20	.02	.09	SAND	
8	2.30	.05	.23	SAND	
8	2.40	.08	.38	SAND	
8	2.45	.02	.10	SAND	
8	2.50	.02	.10	SAND	
8	2.30	.02	.09	SAND	

Table 4-B-11. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
8	2.20	.01	.04	SAND	
8	2.00	.01	.04	SAND	
8	1.65	.02	.07	SAND	
8	1.40	0.00	0.00	BOULDER	SAND
8	.75	.01	.02	BOULDER	SAND
8	.65	0.00	0.00	BOULDER	SAND
9				COBBLE	
9	0.00	0.00	0.00	COBBLE	
9	.10	0.00	0.00	COBBLE	
9	.20	0.00	0.00	COBBLE	
9	.30	.02	.01	COBBLE	
9	.30	0.00	0.00	COBBLE	
9	.40	.02	.02	COBBLE	
9	.60	.08	.01	COBBLE	
9	.90	.08	.14	COBBLE	
9	1.20	.08	.19	COBBLE	SAND
9	1.45	.08	.23	SAND	
9	1.40	.08	.22	SAND	
9	1.30	.08	.21	SAND	
9	1.25	.08	.20	SAND	
9	1.25	.02	.05	SAND	
9	1.25	.05	.13	SAND	
9	1.35	.05	.14	SAND	
9	1.25	.05	.13	SAND	
9	1.25	.05	.13	SAND	
9	1.30	.03	.08	SAND	
9	1.15	.05	.12	SAND	
9	1.20	.05	.12	SAND	
9	1.20	.05	.12	SAND	
9	1.15	.03	.07	SAND	
9	1.10	.10	.22	SAND	
9	1.30	.03	.21	SAND	
9	1.50	0.00	0.00	SAND	
9	1.65	.02	.07	SAND	
9	2.20	.02	.09	SAND	
9	2.85	.01	.03	BOULDER	SAND
9	3.35	0.00	0.00	BOULDER	SAND
9	2.90	.03	.17	BOULDER	SAND
9	2.35	.05	.24	BOULDER	SAND
9	1.80	.02	.07	BOULDER	SAND
10				SAND	
10	.10	0.00	0.00	SAND	
10	.30	0.00	0.00	SAND	
10	.35	0.00	0.00	SAND	
10	.40	.01	.01	SAND	

Table 4-B-11. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
10	.40	.02	.02	SAND	
10	.65	.02	.03	SAND	
10	.95	.02	.04	SAND	
10	1.15	.03	.07	SAND	
10	1.40	.05	.14	SAND	
10	1.60	.08	.26	SAND	
10	1.90	.10	.38	SAND	
10	2.15	.10	.43	SAND	
10	2.35	.02	.09	SAND	
10	2.65	.07	.38	SAND	
10	2.85	.08	.46	SAND	
10	2.80	.01	.06	SAND	
10	2.70	.09	.49	SAND	
10	2.60	.07	.35	SAND	
10	2.50	.10	.48	SAND	
10	2.45	.10	.49	SAND	
10	2.45	.10	.49	SAND	
10	2.45	.08	.39	SAND	
10	2.70	.07	.38	SAND	
10	3.00	.01	.06	SAND	BOULDER
10	3.65	.01	.07	SAND	BOULDER
10	3.40	.02	.10	SAND	BOULDER
10	.90	.02	.04	SAND	BOULDER
10	.30	0.00	0.00	SAND	BOULDER
A	.20	0.00	0.00	GRAVEL	RUBBLE
A	.15	0.00	0.00	GRAVEL	RUBBLE
A	.15	0.00	0.00	GRAVEL	RUBBLE
A	.30	.15	.09	GRAVEL	RUBBLE
A	.40	.10	.08	GRAVEL	RUBBLE
A	.40	.28	.22	GRAVEL	RUBBLE
A	.35	.25	.18	GRAVEL	RUBBLE
A	.45	.25	.23	GRAVEL	RUBBLE
A	.45	.15	.14	GRAVEL	RUBBLE
A	.45	.25	.23	GRAVEL	RUBBLE
A	.50	.45	.45	GRAVEL	RUBBLE
A	.65	.40	.52	GRAVEL	RUBBLE
A	.60	.45	.54	GRAVEL	RUBBLE
A	.60	.55	.66	GRAVEL	RUBBLE
A	.55	.50	.55	GRAVEL	RUBBLE
A	.45	.45	.41	SAND	
A	.40	.50	.40	SAND	
A	.45	.50	.45	SAND	
A	.40	.45	.36	SAND	
A	.40	.45	.36	SAND	
A	.35	.60	.42	SAND	

Table 4-B-11. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
A	.40	.50	.40	SAND	
A	.35	.45	.32	SAND	
A	.35	.40	.28	SAND	
A	.30	.45	.27	SAND	
A	.45	.25	.23	SAND	
A	.35	.05	.04	SAND	
A	.20	0.00	0.00	SAND	
B	0.00			COBBLE	RUBBLE
B	.40	.05	.04	COBBLE	RUBBLE
B	.70	.15	.21	COBBLE	RUBBLE
B	.85	.20	.34	COBBLE	RUBBLE
B	1.20	.20	.48	COBBLE	RUBBLE
B	1.20	.20	.48	COBBLE	RUBBLE
B	1.30	.20	.52	COBBLE	RUBBLE
B	1.30	.20	.52	COBBLE	RUBBLE
B	1.30	.20	.52	COBBLE	RUBBLE
B	1.95	.25	.98	COBBLE	RUBBLE
B	2.05	.20	.82	COBBLE	RUBBLE
B	2.00	.25	1.00	COBBLE	RUBBLE
B	2.00	.25	1.00	SAND	SILT
B	1.90	.25	.95	SAND	SILT
B	1.20	.25	.60	SAND	SILT
B	1.20	.20	.48	SAND	SILT
B	1.00	.20	.40	SAND	SILT
B	.80	.20	.32	SAND	SILT
B	.80	.20	.32	SAND	SILT
B	.70	.20	.28	SAND	SILT
B	.65	.15	.20	SAND	SILT
B	.60	.10	.12	SAND	SILT
B	.50	.05	.05	SAND	SILT
B				SAND	SILT
C				SILT	
C	.10	0.00	0.00	SILT	
C	.20	0.00	0.00	SILT	
C	.30	0.00	0.00	SILT	
C	.50	.08	0.00	SILT	
C	.70	.08	.11	SILT	
C	.85	.10	.17	SILT	
C	1.10	.10	.22	SILT	
C	1.10	.13	.29	SILT	
C	1.20	.13	.31	SILT	
C	1.25	.15	.38	SILT	
C	1.30	.13	.34	SILT	SAND
C	1.40	.15	.42	SILT	SAND
C	1.50	.15	.45	SILT	SAND

Table 4-B-11. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
C	1.50	.10	.30	SILT	SAND
C	1.50	.15	.45	SILT	SAND
C	1.60	.13	.42	SILT	SAND
C	1.65	.15	.50	SILT	SAND
C	1.60	.10	.32	SILT	SAND
C	1.60	.10	.32	SILT	SAND
C	1.60	.10	.32	SILT	SAND
C	1.70	.10	.34	SILT	SAND
C	1.60	.10	.32	SILT	SAND
C	1.60	.13	.42	SILT	SAND
C	1.60	.10	.32	SILT	SAND
C	1.30	.10	.26	SILT	SAND
C	1.20	.10	.24	SILT	SAND
C	1.10	.10	.22	SILT	SAND
C	1.10	.10	.22	SILT	SAND
C	1.00	.10	.20	SILT	SAND
C	1.00	.02	.04	SILT	
C	.80	.05	.08	SILT	
C	.60	.05	.06	SILT	
C	.50	0.00	0.00	SILT	
C	.30	0.00	0.00	SILT	
C	.20	0.00	0.00	SILT	
D	0.00	0.00	0.00	GRAVEL	COBBLE
D	.20	.70	.28	GRAVEL	COBBLE
D	.25	.85	.43	GRAVEL	COBBLE
D	.30	.70	.42	GRAVEL	COBBLE
D	.20	.10	.04	GRAVEL	COBBLE
D	.20	.30	.12	GRAVEL	COBBLE
D	.10	.70	.14	GRAVEL	RUBBLE
D	.20	.90	.36	GRAVEL	RUBBLE
D	.20	.90	.36	GRAVEL	RUBBLE
D	.30	1.15	.69	GRAVEL	RUBBLE
D	.20	1.05	.42	GRAVEL	RUBBLE
D	.20	1.50	.60	GRAVEL	RUBBLE
D	.15	.80	.24	GRAVEL	RUBBLE
D	.10	0.00	0.00	GRAVEL	RUBBLE
D	.10	0.00	0.00	GRAVEL	RUBBLE
D	.15	0.00	0.00	GRAVEL	RUBBLE
D	.30	.40	.24	GRAVEL	RUBBLE
D	.10	0.00	0.00	GRAVEL	RUBBLE
D	.10	0.00	0.00	GRAVEL	RUBBLE
D	.05	0.00	0.00	GRAVEL	RUBBLE
D	.05	0.00	0.00	GRAVEL	RUBBLE
D	0.00				

Table 4-B-12. Hydraulic habitat variables collected
at transects in Slough 9, Sep 04, 1982.

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1	.20	0.00	0.00	SAND	
1	.70	.10	.14	SAND	RUBBLE
1	.80	.18	.29	GRAVEL	COBBLE
1	.70	.15	.21	GRAVEL	COBBLE
1	.70	.10	.14	RUBBLE	SAND
1	.70	.10	.14	RUBBLE	GRAVEL
1	.70	.10	.14	RUBBLE	GRAVEL
1	.75	.20	.30	COBBLE	GRAVEL
1	.80	.15	.24	GRAVEL	RUBBLE
1	.60	.25	.30	GRAVEL	RUBBLE
1	.65	.30	.39	GRAVEL	COBBLE
1	.65	.25	.32	GRAVEL	RUBBLE
1	.65	.20	.26	GRAVEL	COBBLE
1	.60	.20	.24	GRAVEL	RUBBLE
1	.80	.20	.32	SAND	COBBLE
1	.70	.20	.28	SAND	RUBBLE
1	.70	.28	.39	GRAVEL	COBBLE
1	.70	.28	.39	SAND	COBBLE
1	.75	.32	.48	SAND	
1	.70	.32	.44	SAND	
1	.70	.52	.73	SAND	
1	.75	.59	.89	SAND	
1	.75	.55	.83	SAND	
1	.65	.45	.59	SAND	
1	.60	.40	.48	SAND	
1	.45	.35	.32	SAND	
1	.30	.25	.15	SAND	
1	.20	.10	.04	SAND	
1	.10			SAND	
1				SAND	
2	.20	.10	0.00	SAND	
2	.30	.40	.24	SAND	
2	.50	.32	.32	GRAVEL	COBBLE
2	.50	.29	.29	GRAVEL	COBBLE
2	.50	.10	.10	RUBBLE	COBBLE
2	.50	.05	.05	RUBBLE	COBBLE
2	.50	.08	.08	GRAVEL	RUBBLE
2	.35	0.00	0.00	GRAVEL	RUBBLE
2	.40	.05	.04	GRAVEL	RUBBLE
2	.40	.05	.04	SAND	COBBLE
2	.60	.30	.36	GRAVEL	COBBLE
2	.50	.40	.40	GRAVEL	COBBLE
2	.50	.70	.70	GRAVEL	COBBLE
2	.40	.50	.40	GRAVEL	COBBLE

Table 4-B-12. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
2	.50	.60	.60	GRAVEL	COBBLE
2	.70	.50	.70	GRAVEL	BOULDER
2	.55	.60	.66	GRAVEL	COBBLE
2	.50	.52	.52	SAND	COBBLE
2	.40	.60	.48	SAND	GRAVEL
2	.40	.50	.40	GRAVEL	SAND
2	.40	.50	.40	GRAVEL	
2	.40	.20	.16	GRAVEL	RUBBLE
2	.30	.05	.03	SAND	COBBLE
2	.35	.30	.21	SAND	RUBBLE
2	.20	.28	.11	SAND	RUBBLE
2	.20	.20	.08	SAND	
2	.15	.20	.06	SAND	GRAVEL
2	.20	.10	.04	SAND	RUBBLE
2	.10	0.00	0.00	RUBBLE	SAND
2	.20	.10	.04	GRAVEL	
4	.10	.02	0.00	GRAVEL	
4	.20	0.00	0.00	GRAVEL	
4	.25	0.00	0.00	GRAVEL	
4	.25	.38	.08	GRAVEL	
4	.20	.58	.09	GRAVEL	SAND
4	.20	.42	.07	GRAVEL	SAND
4	.20	.28	.01	SAND	
4	.10	.30	.06	SAND	
4		0.00	0.00	SAND	
4	.05	.20	.02	GRAVEL	SAND
4	.05	.30	.03	GRAVEL	
4	.05	.28	.03	GRAVEL	
4	.10	.15	.03	GRAVEL	
4	.10	.20	.03	GRAVEL	
4	.10	.50	.09	GRAVEL	
4	.10	.60	.11	GRAVEL	
4	.15	.40	.11	GRAVEL	
4	.15	.60	.18	GRAVEL	
4	.20	1.05	.41	GRAVEL	
4	.20	1.00	.40	GRAVEL	
4	.15	1.40	.41	GRAVEL	
4	.20	1.70	.66	GRAVEL	
4	.20	1.15	.45	GRAVEL	RUBBLE
4	.20	2.00	.80	GRAVEL	RUBBLE
4	.20	1.35	.54	GRAVEL	RUBBLE
4	.20	1.75	.70	GRAVEL	RUBBLE
4	.15	.75	.23	GRAVEL	RUBBLE
4	.20	.85	.34	GRAVEL	
4	.15	.95	.29	GRAVEL	

Table 4-B-12. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
4	.15	.10	.02	GRAVEL	
4	.10	.80	.16	GRAVEL	
4	.15	.60	.17	GRAVEL	
4	.10	.30	.06	GRAVEL	
4	.15	.65	.19	GRAVEL	RUBBLE
4	.05	0.00	0.00	GRAVEL	RUBBLE
4	.05	0.00	0.00	GRAVEL	RUBBLE
4	.05	.25	.02	GRAVEL	RUBBLE
4	.05	.20	.02	GRAVEL	RUBBLE
4	.15	0.00	0.00	GRAVEL	RUBBLE
4	.05	.10	.01	GRAVEL	RUBBLE
4	.10	.15	.03	GRAVEL	RUBBLE
4	.10	.10	.02	GRAVEL	RUBBLE
4				GRAVEL	RUBBLE
6	.05		0.00	RUBBLE	
6	.10	.05	.01	SAND	RUBBLE
6	.20	.18	.07	RUBBLE	COBBLE
6	.20	.25	.10	RUBBLE	COBBLE
6	.20	.28	.11	RUBBLE	COBBLE
6	.40	.31	.25	RUBBLE	COBBLE
6	.50	.39	.39	RUBBLE	COBBLE
6	.50	.12	.12	COBBLE	BOULDER
6	.55	.29	.32	RUBBLE	COBBLE
6	.45	.35	.32	RUBBLE	COBBLE
6	.55	.35	.39	RUBBLE	BOULDER
6	.35	.39	.27	RUBBLE	BOULDER
6	.80	.35	.56	COBBLE	BOULDER
6	.70	.38	.53	COBBLE	BOULDER
6	.80	.42	.67	RUBBLE	COBBLE
6	1.00	.31	.62	RUBBLE	COBBLE
6	1.15	.35	.81	RUBBLE	COBBLE
6	1.25	.42	.05	RUBBLE	COBBLE
6	1.20	.20	.48	RUBBLE	COBBLE
6	.95	.29	.55	COBBLE	RUBBLE
6	.75	.05	.08	RUBBLE	COBBLE
6	.50	.02	.02	COBBLE	BOULDER
6	.60	.29	.35	COBBLE	RUBBLE
6	.50	.22	.22	BOULDER	RUBBLE
6	.50	.15	.14	COBBLE	RUBBLE
7	0.00			RUBBLE	GRAVEL
7	0.00			RUBBLE	GRAVEL
7	.05			SAND	
7	0.00			SAND	
7	.05			GRAVEL	SAND
7	.05			RUBBLE	SAND

Table 4-B-12. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
7	.05			SAND	RUBBLE
7	.10	0.00	0.00	RUBBLE	SAND
7	.20	0.00	0.00	RUBBLE	SAND
7	.20	0.00	0.00	RUBBLE	COBBLE
7	.20	0.00	0.00	RUBBLE	COBBLE
7	.35	.02	.01	RUBBLE	COBBLE
7	.40	.05	.04	GRAVEL	RUBBLE
7	.45	.10	.09	SAND	RUBBLE
7	.30	.10	.06	COBBLE	GRAVEL
7	.55	.10	.11	SAND	COBBLE
7	.50	.15	.15	RUBBLE	BOULDER
7	.80	.15	.24	RUBBLE	SILT
7	.80	.17	.27	SAND	SILT
7	.60	.16	.19	COBBLE	BOULDER
7	.60	.15	.18	SAND	SILT
7	.70	.20	.28	SAND	COBBLE
7	.70	.15	.21	SAND	SILT
7	.70	.20	.28	SAND	SILT
7	.70	.20	.28	SAND	SILT
7	.65	.23	.30	SAND	SILT
7	.60	.20	.24	SAND	SILT
7	.60	.20	.24	SAND	SILT
7	.55	.18	.20	SAND	SILT
7	.45	.20	.18	SAND	SILT
7	.40	.20	.16	SAND	
7	.45	.18	.16	SAND	
7	.60	.18	.22	SAND	SILT
7	.60	.20	.24	SAND	SILT
7	.60	.17	.20	SAND	SILT
7	.70	.18	.25	SAND	SILT
7	.75	.15	.23	SAND	SILT
7	.75	.15	.23	SAND	SILT
7	.80	.20	.32	SAND	SILT
7	.80	.15	.24	SAND	SILT
7	.80	.15	.24	SAND	SILT
7	.80	.18	.29	SAND	SILT
7	.85	.20	.34	SAND	SILT
7	.90	.20	.36	SAND	SILT
7	.80	.20	.32	SAND	SILT
7	.50	.15	.15	SAND	SILT
7	.30	.10	.06	SAND	SILT
7	.15	.02	.01	SAND	SILT
8	.20	0.00	0.00	SILT	SAND
8	.35	0.00	0.00	SILT	SAND
8	.55	0.00	0.00	SILT	SAND

Table 4-B-12. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
8	.70	0.00	0.00	SILT	SAND
8	.10	.05	.01	SILT	SAND
8	1.10	.08	.18	SILT	SAND
8	1.30	.10	.26	SILT	SAND
8	1.45	.05	.15	SILT	SAND
8	1.65	.08	.26	SILT	SAND
8	1.80	.03	.11	SILT	SAND
8	1.80	.08	.29	SILT	SAND
8	1.85	.10	.37	SILT	SAND
8	1.90	.10	.38	SILT	SAND
8	1.90	.10	.38	SILT	SAND
8	2.10	.10	.42	SILT	SAND
8	2.15	.10	.43	SILT	SAND
8	2.20	.11	.48	SILT	SAND
8	2.30	.11	.51	SILT	SAND
8	2.45	.10	.49	SILT	SAND
8	2.50	.11	.55	SILT	SAND
8	2.70	.11	.60	SILT	SAND
8	2.65	.11	.58	SILT	SAND
8	2.40	.11	.53	SILT	SAND
8	2.35	.11	.52	SILT	SAND
8	2.20	.09	.40	SILT	SAND
8	1.45	.09	.26	BOULDER	SAND
8	1.30	.05	.13	BOULDER	SAND
8	.09	.01	.18	SAND	
8	.50	0.00	0.00	SAND	
8				BOULDER	SAND
9	.05			GRAVEL	COBBLE
9	.30	.02	.01	RUBBLE	COBBLE
9	.30	.05	.03	RUBBLE	GRAVEL
9	.50	.04	.04	RUBBLE	COBBLE
9	.65	.05	.07	RUBBLE	COBBLE
9	.65	.08	.10	RUBBLE	COBBLE
9	.75	.08	.12	GRAVEL	RUBBLE
9	1.00	.10	.20	RUBBLE	COBBLE
9	1.30	.08	.21	COBBLE	RUBBLE
9	1.60	.09	.29	COBBLE	SAND
9	1.55	.12	.37	SAND	
9	1.45	.14	.41	SAND	SILT
9	1.45	.08	.23	SAND	SILT
9	1.40	.15	.42	SAND	SILT
9	1.40	.15	.42	SAND	SILT
9	1.40	.18	.50	SAND	SILT
9	1.40	.13	.36	SAND	SILT
9	1.40	.13	.36	SAND	SILT

Table 4-B-12. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
9	1.40	.13	.36	SAND	SILT
9	1.30	.19	.49	SAND	SILT
9	1.35	.15	.41	SAND	SILT
9	1.35	.18	.49	SAND	SILT
9	1.30	.12	.31	SAND	SILT
9	1.30	.15	.39	SAND	SILT
9	1.45	.12	.39	SAND	SILT
9	1.70	.10	.34	SAND	SILT
9	1.80	.10	.36	SAND	SILT
9	2.15	.10	.43	SAND	SILT
9	2.70	.08	.43	SAND	SILT
9	2.35	.02	.09	BOULDER	SILT
9	2.15	.02	.09	BOULDER	SILT
9	1.25	.01	.01	BOULDER	SAND
10	.10	0.00	0.00	SAND	SILT
10	.40	0.00	0.00	SAND	SILT
10	.60	0.00	0.00	SAND	SILT
10	.50	0.00	0.00	SAND	SILT
10	.50	0.00	0.00	SAND	SILT
10	.50	0.00	0.00	SAND	SILT
10	.80	0.00	0.00	SAND	SILT
10	1.05	.05	.11	SAND	SILT
10	1.30	.11	.29	SAND	SILT
10	1.50	.12	.36	SAND	SILT
10	1.80	.15	.54	SAND	SILT
10	2.10	.11	.46	SAND	SILT
10	2.25	.11	.50	SAND	SILT
10	2.60	.11	.57	SAND	SILT
10	2.90	.12	.70	SAND	SILT
10	3.25	.12	.78	SAND	SILT
10	3.55	.11	.78	SAND	SILT
10	3.70	.10	.74	SAND	SILT
10	3.45	.10	.69	SAND	SILT
10	3.20	.11	.70	SAND	SILT
10	2.90	.10	.58	SAND	SILT
10	2.90	.10	.58	SAND	SILT
10	3.00	.09	.54	SAND	SILT
10	2.85	.10	.57	SAND	SILT
10	2.65	.07	.37	SAND	SILT
10	2.45	.05	.25	SAND	SILT
10	1.30	.08	.21	BOULDER	SAND
10	1.30	.02	.02	BOULDER	SAND
10	0.00	0.00	0.00	BOULDER	SAND
A				GRAVEL	RUBBLE
A	.10			GRAVEL	RUBBLE

Table 4-B-12. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
A	.05			GRAVEL	RUBBLE
A	.15	0.00	0.00	GRAVEL	RUBBLE
A	.20	.05	.02	GRAVEL	RUBBLE
A	.15	0.00	0.00	GRAVEL	RUBBLE
A	.35	.20	.14	GRAVEL	RUBBLE
A	.35	.20	.14	GRAVEL	RUBBLE
A	.40	.20	.16	GRAVEL	RUBBLE
A	.50	.25	.25	GRAVEL	COBBLE
A	.60	.25	.30	GRAVEL	COBBLE
A	.60	.35	.42	RUBBLE	COBBLE
A	.70	.25	.35	RUBBLE	COBBLE
A	.80	.30	.48	RUBBLE	COBBLE
A	.80	.40	.64	RUBBLE	COBBLE
A	.65	.45	.59	GRAVEL	BOULDER
A	.80	.45	.72	GRAVEL	RUBBLE
A	.85	.59	1.00	GRAVEL	SAND
A	.90	.62	1.12	GRAVEL	SAND
A	.80	.68	1.09	SAND	
A	.80	.75	1.20	SAND	RUBBLE
A	.75	.70	1.05	SAND	
A	.70	.73	1.02	SAND	
A	.70	.75	1.05	SAND	
A	.70	.62	.87	SAND	
A	.70	.70	.98	SAND	
A	.65	.65	.85	SAND	
A	.65	.55	.72	SAND	
A	.65	.50	.65	SAND	
A	.50	.60	.60	SAND	
A	.55	.50	.55	SAND	
A	.50	.55	.55	SAND	
A	.50	.50	.50	SAND	
A	.40	.35	.28	SAND	
A	.30	.15	.09	SAND	
A				SAND	
B	.15	.12	.03	GRAVEL	RUBBLE
B	.50	.15	.15	GRAVEL	RUBBLE
B	.80	.29	.46	RUBBLE	COBBLE
B	1.10	.30	.66	RUBBLE	COBBLE
B	1.20	.30	.72	RUBBLE	COBBLE
B	1.45	.30	.87	RUBBLE	COBBLE
B	1.50	.40	1.20	RUBBLE	COBBLE
B	1.50	.40	1.20	RUBBLE	BOULDER
B	1.45	.40	1.16	RUBBLE	COBBLE
B	1.45	.40	1.16	RUBBLE	COBBLE
B	1.50	.33	.99	RUBBLE	COBBLE

Table 4-B-12. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
B	1.70	.30	1.02	RUBBLE	BOULDER
B	1.75	.35	1.23	RUBBLE	COBBLE
B	.85	.39	.66	SAND	BOULDER
B	1.50	.35	1.05	SAND	
B	1.30	.40	1.04	SAND	
B	1.30	.40	1.04	SAND	
B	1.15	.40	.92	SAND	
B	1.05	.40	.84	SAND	
B	1.05	.33	.69	SAND	
B	.90	.15	.27	SAND	
B	.60	0.00	0.00	SAND	
B				SAND	
C				SILT	
C	.05			SILT	
C	.10			SILT	
C	.15	0.00	0.00	SILT	
C	.20	.01	0.00	SILT	
C	.20	.01	0.00	SILT	
C	.30	.10	.06	SILT	
C	.30	.10	.06	SILT	
C	.40	.15	.12	SILT	
C	.50	.20	.20	SILT	
C	.80	.20	.32	SILT	
C	1.00	.20	.40	SILT	
C	1.20	.28	.67	SILT	
C	1.30	.25	.65	SILT	
C	1.40	.25	.70	SILT	
C	1.45	.22	.64	SILT	
C	1.45	.22	.64	SILT	
C	1.55	.22	.68	SILT	
C	1.60	.20	.64	SILT	
C	1.70	.20	.68	SILT	
C	1.75	.20	.70	SILT	
C	1.80	.20	.72	SILT	
C	1.80	.20	.72	SILT	
C	1.85	.20	.74	SILT	
C	1.90	.19	.72	SILT	
C	1.90	.15	.57	SILT	
C	1.90	.20	.76	SILT	
C	1.90	.19	.72	SILT	
C	1.90	.19	.72	SILT	
C	1.90	.19	.72	SILT	
C	2.10	.16	.67	SILT	
C	1.75	.13	.46	SILT	
C	1.60	.12	.38	SILT	

Table 4-B-12. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
C	1.50	.12	.36	SILT	
C	1.50	.12	.36	SILT	
C	1.35	.12	.32	SILT	
C	1.30	.13	.34	SILT	
C	1.25	.12	.30	SILT	
C	1.10	.10	.22	SILT	
C	.90	.10	.18	SILT	
C	.80	.10	.16	SILT	
C	.60	0.00	0.00	SILT	
C	.40	0.00	0.00	SILT	
C	.20	0.00	0.00	SILT	
C				SILT	
D				SAND	GRAVEL
D	.20	0.00	0.00		
D	.30	.25	.15	GRAVEL	COBBLE
D	.40	.55	.44	GRAVEL	RUBBLE
D	.30	.55	.33	GRAVEL	RUBBLE
D	.25	1.35	.41	GRAVEL	RUBBLE
D	.20	.90	.22	GRAVEL	RUBBLE
D	.20	.95	.38	GRAVEL	RUBBLE
D	.35	1.65	1.16	GRAVEL	RUBBLE
D	.20	1.40	.56	GRAVEL	RUBBLE
D	.40	2.00	1.60	GRAVEL	RUBBLE
D	.30	1.35	.81	GRAVEL	RUBBLE
D	.30	1.45	.87	GRAVEL	RUBBLE
D	.30	1.35	.81	GRAVEL	RUBBLE
D	.15	.85	.26	GRAVEL	RUBBLE
D	.25	.50	.25	GRAVEL	
D	.15	.40	.12	GRAVEL	
D	.30	1.25	.75	GRAVEL	
D	.20	.60	.24	GRAVEL	
D	.05			GRAVEL	
D	.10			GRAVEL	
D	.15	.40	.12	GRAVEL	
D	.10	.50	.10	GRAVEL	SAND

Table 4-B-13. Hydraulic habitat variables collected
at transects in Slough 9, Sep 18, 1982.

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1	.95	.05	.10	SAND	RUBBLE
1	1.00	.68	2.70	SAND	RUBBLE
1	2.00	1.05	8.40	SAND	RUBBLE
1	2.00	1.30	10.40	SAND	RUBBLE
1	2.00	1.20	9.60	SAND	RUBBLE
1	2.05	1.25	10.30	SAND	RUBBLE
1	2.05	1.40	11.50	RUBBLE	SAND
1	1.85	1.40	10.40	RUBBLE	SAND
1	2.10	1.65	13.80	COBBLE	SAND
1	1.95	1.45	11.30	SAND	COBBLE
1	1.70	1.70	11.60	SAND	
1	1.90	1.88	14.30	SAND	
1	1.95	1.80	14.00	SAND	
1	1.70	1.80	12.20	SAND	
1	1.50	1.70	10.20	SAND	
1	1.40	1.60	9.00	SAND	
1	1.20	1.32	6.30	SAND	
1	1.10	1.20	5.30	SAND	
1	1.15	1.05	4.80	SAND	
1	1.10	.95	4.20	SAND	
1	1.05	1.05	4.40	SAND	
1	1.00	1.00	4.00	SAND	
1	.95	.85	3.20	SAND	
1	.90	.85	3.10	SAND	
1	.70	.80	3.20	SAND	
1	.40	.50	.80	SAND	RUBBLE
1	.20	.30	.20	SAND	RUBBLE
1	.05	0.00	0.00	SAND	RUBBLE
2	.70	0.00	0.00	SAND	
2	1.00	.42	1.70	SAND	
2	1.40	.55	3.10	SAND	
2	1.90	.91	6.90	SAND	RUBBLE
2	1.95	1.25	9.80	COBBLE	RUBBLE
2	1.90	1.38	10.50	SAND	RUBBLE
2	1.90	1.75	13.30	SAND	RUBBLE
2	2.25	1.90	17.10	SAND	RUBBLE
2	2.10	2.10	17.60	GRAVEL	RUBBLE
2	1.95	2.00	15.60	GRAVEL	RUBBLE
2	2.00	2.45	19.60	GRAVEL	RUBBLE
2	1.65	2.30	15.20	SAND	
2	1.55	2.35	14.60	SAND	
2	1.00	2.60	10.40	SAND	
2	1.30	2.45	12.70	SAND	
2	1.55	1.90	11.80	SAND	RUBBLE

Table 4-B-13. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
2	1.20	2.20	10.60	SAND	COBBLE
2	1.00	1.65	6.60	SAND	COBBLE
2	.95	1.75	6.70	SAND	COBBLE
2	.85	1.40	4.80	SAND	
2	.90	1.20	4.30	SAND	
2	.75	1.05	3.20	SAND	
2	.65	.90	2.30	SAND	
2	.50	.35	.70	SAND	RUBBLE
2	.40	.48	.80	SAND	RUBBLE
2	.10	0.00	0.00	SAND	RUBBLE
2	0.00		0.00	SAND	RUBBLE
4	.10	.25	0.00	COBBLE	
4	.50	.88	1.30	COBBLE	RUBBLE
4	.70	1.65	3.50	COBBLE	RUBBLE
4	1.00	1.65	4.30	COBBLE	
4	1.10	2.00	5.70	COBBLE	
4	1.40	2.15	9.00	COBBLE	GRAVEL
4	1.60	1.85	8.90	COBBLE	GRAVEL
4	1.50	2.35	11.30	COBBLE	GRAVEL
4	1.80	2.10	11.30	SAND	COBBLE
4	1.60	1.63	8.40	SAND	COBBLE
4	1.30	1.60	7.50	SAND	
4	1.60	1.65	9.50	SAND	
4	1.10	1.10	4.40	SAND	
4	1.10	1.15	4.60	SAND	
4	1.20	1.10	4.80	SAND	
4	1.20	1.15	5.20	SAND	
4	1.20	1.28	5.80	SAND	
4	1.20	1.80	8.20	SAND	
4	1.00	1.92	7.50	SAND	
4	1.00	2.35	9.10	SAND	
4	1.50	1.90	10.80	SAND	
4	1.30	1.89	9.30	SAND	RUBBLE
4	1.30	1.50	7.40	SAND	
4	1.30	2.00	9.40	RUBBLE	COBBLE
4	1.10	1.91	7.60	RUBBLE	COBBLE
4	1.10	1.60	7.00	RUBBLE	COBBLE
4	1.10	1.38	6.10	RUBBLE	COBBLE
4	1.00	1.80	6.80	RUBBLE	COBBLE
4	1.10	1.82	7.60	COBBLE	RUBBLE
4	.80	1.75	5.30	BOULDER	COBBLE
4	1.00	1.30	5.20	COBBLE	RUBBLE
4	.90	1.05	3.60	RUBBLE	COBBLE
4	.90	.88	3.00	RUBBLE	COBBLE
4	.60	.52	1.20	COBBLE	RUBBLE

Table 4-B-13. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
4	.60	.62	1.30	RUBBLE	COBBLE
4	.60	.40	.80	RUBBLE	COBBLE
4	.40	.35	.40	COBBLE	RUBBLE
4	.30	.28	.30	COBBLE	RUBBLE
4	.20	.02	0.00	RUBBLE	COBBLE
4	.15	.02	0.00	COBBLE	RUBBLE
6	.70	.02	0.00	COBBLE	
6	.80	.80	2.60	COBBLE	
6	1.10	2.00	8.80	COBBLE	
6	1.20	1.75	8.40	COBBLE	
6	1.10	1.70	7.50	COBBLE	SAND
6	1.00	1.65	6.60	COBBLE	SAND
6	.90	1.50	5.40	SAND	
6	.80	1.58	5.10	SAND	
6	.70	1.38	3.90	SAND	
6	.80	1.12	3.60	SAND	
6	.60	1.25	3.00	SAND	
6	.60	1.20	2.90	SAND	
6	.50	1.20	2.40	SAND	
6	.60	1.12	2.70	SAND	
6	.60	1.55	3.70	SAND	
6	.60	1.48	3.60	SAND	
6	.60	1.42	3.40	SAND	
6	.70	1.35	3.80	SAND	
6	.80	1.28	4.10	SAND	
6	.90	.95	3.40	SAND	
6	.90	1.42	5.10	SAND	
6	1.00	1.75	7.00	SAND	
6	1.20	2.00	9.60	SAND	BOULDER
6	1.30	1.75	9.10	SAND	
6	1.40	1.70	9.50	COBBLE	SAND
6	1.50	2.15	12.90	COBBLE	
6	1.60	2.10	13.40	SAND	COBBLE
6	1.70	2.15	14.60	COBBLE	BOULDER
6	1.90	1.65	12.50	COBBLE	BOULDER
6	2.30	2.05	18.90	COBBLE	BOULDER
6	1.80	1.98	14.30	BOULDER	COBBLE
6	1.60	1.88	12.00	BOULDER	
6	1.50	1.60	9.60	BOULDER	
6	.70	.55	1.50	BOULDER	
6	.50	.70	1.40	COBBLE	BOULDER
7				SAND	
7	.40	.60	.30	SAND	
7	.35	.75	1.10	SAND	
7	.35	.65	.90	SAND	

Table 4-B-13. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
7	.40	.80	1.30	SAND	
7	.50	.85	1.70	SAND	GRAVEL
7	.55	1.05	2.30	GRAVEL	RUBBLE
7	.50	.90	1.80	GRAVEL	RUBBLE
7	.55	.90	2.00	GRAVEL	RUBBLE
7	.75	1.00	3.00	RUBBLE	SAND
7	.80	1.00	4.00	RUBBLE	SAND
7	.95	1.05	4.80	RUBBLE	SAND
7	1.00	1.20	4.80	RUBBLE	SAND
7	.95	1.25	5.40	RUBBLE	SAND
7	1.00	1.35	5.40	RUBBLE	SAND
7	1.10	1.20	5.30	RUBBLE	SAND
7	1.15	1.35	6.20	SAND	RUBBLE
7	1.25	1.35	6.80	SAND	COBBLE
7	1.20	1.30	6.20	SAND	
7	1.30	1.25	6.50	SAND	
7	1.50	1.40	8.40	SAND	
7	1.45	1.25	7.30	SAND	
7	1.30	1.35	7.00	SAND	
7	1.50	1.45	8.70	SAND	
7	1.50	1.40	8.40	SAND	
7	1.50	1.55	9.30	SAND	
7	1.40	1.60	9.00	SAND	
7	1.50	1.40	8.40	SAND	
7	1.50	1.25	7.50	SAND	
7	1.60	1.35	8.60	SAND	
7	1.65	1.25	8.30	SAND	
7	1.80	1.25	9.00	SAND	
7	1.65	1.20	7.90	SAND	
7	1.70	1.20	8.20	SAND	
7	1.65	1.25	8.30	SAND	
7	1.65	1.20	7.90	SAND	
7	1.70	.95	6.50	SAND	
7	1.00	.40	1.60	SAND	COBBLE
8				SAND	
8	.10	0.00	0.00	SAND	
8	.30	.30	.04	SAND	
8	.60	.55	1.30	SAND	
8	.90	.58	2.10	SAND	
8	1.10	.70	3.10	SAND	
8	1.40	.85	4.70	SAND	
8	1.50	1.02	6.10	SAND	
8	1.90	1.02	7.80	SAND	
8	2.40	1.00	9.60	SAND	
8	2.60	1.45	15.10	SAND	

Table 4-B-13. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
8	2.80	1.51	16.90	SAND	
8	2.90	1.58	18.30	SAND	
8	3.30	1.52	20.10	SAND	
8	3.40	1.75	23.80	SAND	
8	3.50	1.78	24.90	SAND	
8	3.60	1.78	25.60	SAND	
8	3.30	1.88	24.80	SAND	
8	3.00	1.45	17.40	SAND	
8	2.80	1.26	14.10	SAND	COBBLE
8	2.45	.65	6.40	SAND	BOULDER
8	.60	.40	1.00		
9				RUBBLE	COBBLE
9	.05	0.00	0.00	RUBBLE	COBBLE
9	.35	.40	.06	RUBBLE	COBBLE
9	.45	.50	.09	RUBBLE	COBBLE
9	.65	.65	1.70	RUBBLE	COBBLE
9	.95	.90	3.40	RUBBLE	COBBLE
9	1.15	.95	4.40	RUBBLE	COBBLE
9	1.40	.85	4.70	RUBBLE	COBBLE
9	1.60	1.30	8.30	RUBBLE	COBBLE
9	1.80	1.40	10.00	RUBBLE	COBBLE
9	2.20	1.90	16.70	SAND	
9	2.30	1.90	17.40	SAND	
9	2.35	2.10	19.70	SAND	
9	2.45	2.15	21.10	SAND	
9	2.35	2.15	20.20	SAND	
9	2.45	1.80	17.60	SAND	
9	2.30	1.80	16.60	SAND	
9	2.20	1.75	15.40	SAND	
9	2.30	1.55	14.30	SAND	
9	2.80	1.42	15.90	SAND	
9	2.90	1.38	16.00	SAND	
9	4.60	1.00	18.40	SAND	BOULDER
9	4.20	.35	5.90	SAND	BOULDER
9	.30	0.00	0.00		
10				SAND	
10	.20	.25	.10	SAND	
10	.60	.62	1.50	SAND	
10	1.30	.75	4.00	SAND	
10	2.00	.90	7.20	SAND	
10	2.50	1.41	14.10	SAND	
10	2.80	1.50	16.80	SAND	
10	2.80	1.49	16.70	SAND	
10	3.00	1.63	19.60	SAND	
10	3.10	1.60	19.80	SAND	

Table 4-B-13. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
10	3.30	1.82	24.00	SAND	
10	3.50	2.04	28.60	SAND	
10	3.40	2.03	27.60	SAND	
10	3.80	1.82	27.70	SAND	
10	3.90	1.71	26.70	SAND	
10	4.30	1.26	21.70	SAND	
10	4.70	.85	16.00	SAND	
10	2.50	.71	7.10	SAND	
10	1.20	.20	1.00	BOULDER	SAND
10	.50	.90	1.80	BOULDER	SAND

Table 4-B-14. Hydraulic habitat variables collected
at transects in Slough 9, Sep 20, 1982.

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1				SAND	
1	.05	.20	.10	SAND	
1	1.30	.70	3.60	SAND	
1	1.65	1.10	7.30	RUBBLE	
1	1.65	1.00	6.60	COBBLE	SAND
1	1.60	1.25	8.00	COBBLE	SAND
1	1.60	1.32	8.40	COBBLE	SAND
1	1.90	1.15	8.70	RUBBLE	SAND
1	1.50	1.30	7.80	COBBLE	RUBBLE
1	1.80	1.55	11.20	GRAVEL	RUBBLE
1	1.70	1.20	8.20	COBBLE	SAND
1	1.80	1.60	11.50	COBBLE	SAND
1	1.70	1.63	11.10	SAND	
1	1.70	1.50	10.20	SAND	
1	1.50	1.30	7.80	SAND	
1	1.30	1.30	6.80	SAND	
1	1.20	1.15	5.50	SAND	
1	.90	1.10	4.00	SAND	
1	.80	.80	2.60	SAND	
1	.80	1.00	3.20	SAND	
1	.70	.80	2.20	SAND	
1	.70	.90	2.50	SAND	
1	.60	.90	2.20	SAND	
1	.60	.91	2.20	SAND	
1	.60	.80	1.90	SAND	
1	.03	0.00	0.00	COBBLE	SAND
2				SAND	
2	.05	0.00	0.00	SAND	
2	.50	.55	1.00	SAND	
2	1.10	.90	4.00	SAND	
2	1.00	.95	3.80	SAND	
2	1.50	.95	5.70	COBBLE	
2	1.50	.60	3.60	SAND	
2	1.50	.95	5.70	BOULDER	COBBLE
2	1.80	.85	6.10	BOULDER	COBBLE
2	1.60	1.85	11.80	COBBLE	GRAVEL
2	1.50	1.95	11.70	COBBLE	GRAVEL
2	1.60	1.82	11.70	BOULDER	COBBLE
2	1.50	1.95	11.70	BOULDER	COBBLE
2	1.20	1.05	5.00	SAND	
2	1.10	1.20	5.30	SAND	
2	1.20	1.05	5.00	SAND	
2	1.10	1.80	7.90	SAND	
2	1.00	1.95	7.80	SAND	

Table 4-B-14. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
2	.80	1.80	5.80	SAND	
2	.60	1.55	3.70	SAND	
2	.60	1.52	3.70	SAND	
2	.50	1.45	2.90	SAND	
2	.40	.43	.70	SAND	
2	.30	.25	.30	SAND	
2	.20	0.00	0.00	SAND	
4	.05	.38	0.00	COBBLE	RUBBLE
4	.40	.96	1.20	COBBLE	RUBBLE
4	.60	1.30	2.50		
4	1.00	1.15	3.80	RUBBLE	COBBLE
4	1.00	1.25	4.30	COBBLE	RUBBLE
4	1.10	1.65	5.10	RUBBLE	COBBLE
4	1.20	1.40	5.00	COBBLE	GRAVEL
4	1.50	2.15	7.30	SAND	COBBLE
4	1.20	1.72	6.20	GRAVEL	SAND
4	1.10	1.38	4.90	COBBLE	GRAVEL
4	1.00	1.20	4.70	COBBLE	SAND
4	.90	1.21	4.40	SAND	
4	1.00	1.28	5.10	SAND	
4	1.00	1.55	6.00	SAND	
4	1.00	1.60	6.20	SAND	
4	1.00	1.85	7.40	COBBLE	GRAVEL
4	1.10	2.00	8.80	RUBBLE	GRAVEL
4	1.00	1.90	7.60	COBBLE	GRAVEL
4	1.00	2.09	8.40	COBBLE	GRAVEL
4	.80	2.00	6.40	COBBLE	GRAVEL
4	.70	2.40	6.70	COBBLE	RUBBLE
4	.70	2.40	6.70	COBBLE	RUBBLE
4	.50	1.80	3.60	COBBLE	RUBBLE
4	.60	.40	1.00	RUBBLE	COBBLE
4	.70	1.12	3.10	COBBLE	SAND
4	.50	1.20	2.40	COBBLE	RUBBLE
4	.50	.98	2.00	COBBLE	RUBBLE
4	.50	.80	1.60	COBBLE	RUBBLE
4	.50	1.00	2.00	COBBLE	RUBBLE
4	.40	.50	.80	COBBLE	GRAVEL
4	.40	.48	.70	COBBLE	RUBBLE
4	.40	.30	.50	COBBLE	RUBBLE
4	.40	.20	.30	RUBBLE	GRAVEL
4	.10	0.00	0.00	RUBBLE	GRAVEL
4	.05	0.00	0.00	RUBBLE	
4	.05	0.00	0.00	GRAVEL	RUBBLE
6	.50	.32	.60	SAND	
6	.40	.63	1.00	COBBLE	RUBBLE

Table 4-B-14. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
6	.80	1.20	3.80	COBBLE	RUBBLE
6	.90	2.03	7.30	COBBLE	RUBBLE
6	.80	1.92	6.10	COBBLE	SAND
6	.70	1.73	4.80	SAND	COBBLE
6	.50	1.25	2.50	SAND	COBBLE
6	.30	1.20	1.40	SAND	
6	.40	1.20	1.90	SAND	
6	.40	1.23	2.00	SAND	
6	.30	.75	.90	SAND	
6	.20	.20	.10	SAND	
6	.20	1.28	.80	SAND	COBBLE
6	.30	1.40	1.50	COBBLE	SAND
6	.30	.72	.80	COBBLE	
6	.30	.98	1.10	SAND	COBBLE
6	.30	.72	.80	SAND	COBBLE
6	.40	1.00	1.60	SAND	COBBLE
6	.40	.85	1.40	SAND	
6	.40	1.10	1.70	SAND	
6	.60	1.09	2.60	SAND	COBBLE
6	.80	1.30	4.20	SAND	
6	.90	1.38	5.00	SAND	COBBLE
6	.60	1.85	4.40	COBBLE	SAND
6	1.10	1.72	7.60	COBBLE	SAND
6	1.10	2.10	9.20	COBBLE	
6	1.10	1.92	8.50	COBBLE	
6	1.50	1.75	10.50	COBBLE	
6	1.70	1.80	12.20	COBBLE	
6	1.90	1.80	13.70	COBBLE	
6	1.00	2.35	9.40	BOULDER	COBBLE
6	1.20	1.50	7.20	BOULDER	COBBLE
6	1.30	1.60	8.30	BOULDER	COBBLE
6	.50	.60	1.20	COBBLE	
6	.05	0.00	0.00	COBBLE	
7	.05	.25	.04	SAND	
7	.10	.30	.12	SAND	GRAVEL
7	.30	.60	.72	SAND	COBBLE
7	.30	.60	.72	SAND	GRAVEL
7	.20	.78	.62		
7	.40	.78	1.25	RUBBLE	GRAVEL
7	.50	1.09	2.18	SAND	RUBBLE
7	.60	1.05	2.52	SAND	
7	.60	.95	2.28	SAND	COBBLE
7	.60	1.00	2.40	SAND	COBBLE
7	.70	1.10	3.08	SAND	COBBLE
7	.70	1.25	3.50	SAND	COBBLE

Table 4-B-14. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
7	.80	1.20	3.84	SAND	COBBLE
7	.90	1.32	4.75	SAND	
7	1.00	1.32	5.28	SAND	COBBLE
7	1.00	1.45	5.80	SAND	COBBLE
7	1.10	1.28	5.63	SAND	
7	1.20	1.28	6.14	SAND	
7	1.20	1.31	6.29	SAND	
7	1.30	1.40	7.28	SAND	
7	1.30	1.38	7.17	SAND	
7	1.30	1.40	7.28	SAND	
7	1.30	1.35	7.02	SAND	
7	1.20	1.42	6.82	SAND	
7	1.30	1.48	7.70	SAND	
7	1.30	1.38	7.18	SAND	
7	1.30	1.40	7.28	SAND	
7	1.40	1.32	7.39	SAND	
7	1.40	1.21	6.78	SAND	
7	1.40	1.43	8.01	SAND	
7	1.40	1.40	7.04	SAND	
7	1.40	1.25	7.00	SAND	
7	1.40	1.25	7.00	SAND	
7	1.20	.60	2.81	BOULDER	SAND
8	.10	0.00	0.00	SAND	
8	.50	.30	.60	SAND	
8	.70	.48	1.30	SAND	
8	.90	.63	2.30	SAND	
8	1.10	.75	3.30	SAND	
8	1.40	.83	4.60	SAND	
8	1.90	.81	6.20	SAND	
8	2.10	1.00	8.40	SAND	
8	2.40	1.35	13.00	SAND	
8	2.65	1.44	15.30	SAND	
8	2.90	1.60	18.60	SAND	
8	3.00	1.56	18.70	SAND	
8	3.00	1.77	21.20	SAND	
8	2.90	1.91	22.20	SAND	
8	2.70	1.71	18.50	SAND	
8	2.70	1.40	15.10	SAND	
8	2.30	.88	8.10	BOULDER	SAND
8	1.30	0.00	0.00	BOULDER	SAND
9	.10	.08	0.00		
9	.30	.13	.20		
9	.65	.45	1.20		
9	1.00	.65	2.60		
9	1.10	.75	3.30		

Table 4-B-14. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
9	1.30	.98	5.10		
9	1.65	1.13	7.50		
9	2.05	.85	7.00		
9	2.10	1.02	8.60		
9	2.10	1.32	11.10		
9	1.90	1.50	11.40		
9	1.90	1.58	12.00		
9	1.80	1.22	8.80		
9	1.80	1.35	9.70		
9	2.00	1.35	10.80		
9	2.40	1.30	12.50		
9	2.40	1.25	12.00		
9	2.90	.93	11.70		
9	3.30	.50	6.60		
9		0.00	0.00		
10				SAND	SILT
10	.10	.02	0.00	SAND	SILT
10	.80	.39	1.30	SAND	SILT
10	1.60	.58	3.70	SAND	SILT
10	2.00	.78	6.20	SAND	SILT
10	2.20	1.00	8.80	SAND	SILT
10	2.30	1.09	10.00	SAND	SILT
10	2.30	.98	9.00	SAND	SILT
10	2.40	.90	8.60	SAND	SILT
10	2.50	1.15	11.50	SAND	SILT
10	2.80	1.02	11.40	SAND	SILT
10	3.00	1.24	14.80	SAND	SILT
10	3.00	1.07	12.80	SAND	SILT
10	3.10	1.01	12.50	SAND	SILT
10	3.75	.78	11.70	SAND	SILT
10	4.00	.68	10.80	SAND	SILT
10	2.00	.24	0.00	SAND	SILT
10	.70	0.00		SAND	SILT

Table 4-B-15. Hydraulic habitat variables collected
at transects in Slough 21, Sep 02, 1982.

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1	.05			SAND	
1	.15	0.00	0.00	SAND	
1	.20	0.00	0.00	SAND	
1	.20	0.00	0.00	SAND	
1	.40	0.00	0.00	SAND	
1	.50	.10	.10	SAND	
1	.50	.08	.08	SAND	
1	.60	.06	.07	SAND	
1	.75	.10	.15	SAND	
1	.95	.08	.15	SAND	
1	.95	.10	.19	SAND	
1	1.10	.10	.22	SAND	
1	1.20	.15	.36	SAND	RUBBLE
1	1.00	.10	.20	SAND	
1	1.35	.10	.27	SAND	BOULDER
1	1.60	.10	.32	COBBLE	SAND
1	1.55	.05	.16	SAND	RUBBLE
1	1.50	.10	.30	SAND	
1	1.60	.10	.32	SAND	RUBBLE
1	1.50	.12	.36	RUBBLE	SAND
1	1.50	.02	.06	SAND	COBBLE
1	1.35	.05	.14	SAND	COBBLE
1	1.25	.10	.25	SAND	COBBLE
1	1.15	.02	.05	SAND	COBBLE
1	.85	.05	.09	SAND	BOULDER
1	.95	.02	.04	SAND	BOULDER
1	.45	.08	.07		
1	.85	.10	.17	GRAVEL	BOULDER
1	1.00	.02	.04	GRAVEL	RUBBLE
1	.95	.12	.23	RUBBLE	COBBLE
1	.15	.02	.01	COBBLE	GRAVEL
1	.90	.10	.18	BOULDER	RUBBLE
1			0.00		
1	.55	.08	.09	SAND	COBBLE
1	.55	.12	.13	SAND	COBBLE
1	.50	.02	.02	SAND	BOULDER
1	.70	.10	.14	GRAVEL	COBBLE
1	.90	.15	.27	GRAVEL	RUBBLE
1	.80	.20	.32	BOULDER	GRAVEL
1	1.00	.12	.24	COBBLE	GRAVEL
1	.90	.18	.32	BOULDER	SAND
1	1.00	.10	.20	RUBBLE	SAND
1	.60	.02	.02	SAND	COBBLE
1	.30	0.00	0.00	COBBLE	SAND

Table 4-B-15. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1	.20	.02	.01	COBBLE	
1	.15	0.00	0.00	COBBLE	SILT
1	.20	0.00	0.00	RUBBLE	COBBLE
1			0.00		
1	.15	0.00	0.00	RUBBLE	SILT
1			0.00		
2	.20	0.00	0.00	RUBBLE	
2	.25	0.00	0.00	RUBBLE	GRAVEL
2	.40	0.00	0.00	RUBBLE	GRAVEL
2	.60	0.00	0.00	GRAVEL	RUBBLE
2	.70	.09	.13	GRAVEL	COBBLE
2	.85	.08	.14	RUBBLE	GRAVEL
2	.80	.08	.13	GRAVEL	RUBBLE
2	.85	.08	.14	RUBBLE	GRAVEL
2	.80	.10	.16	COBBLE	GRAVEL
2	.70	.02	.03	COBBLE	GRAVEL
2	.60	0.00	0.00	COBBLE	GRAVEL
2	.60	0.00	0.00	RUBBLE	SAND
2	.40	0.00	0.00	RUBBLE	GRAVEL
2	.20	0.00	0.00	RUBBLE	COBBLE
2	.10	0.00	0.00	RUBBLE	COBBLE
2	.10	0.00	0.00	RUBBLE	COBBLE
2	.20	0.00	0.00	RUBBLE	BOULDER
2	.20	0.00	0.00	COBBLE	RUBBLE
2	.10	0.00	0.00	GRAVEL	COBBLE
2	.10	0.00	0.00	RUBBLE	COBBLE
2			0.00		
2	.20	0.00	0.00	RUBBLE	
2	.20	.05	.02	COBBLE	RUBBLE
2	.15	0.00	0.00	RUBBLE	COBBLE
2	.10	.15	.15	COBBLE	RUBBLE
2			0.00		
2	.35	.25	.16	RUBBLE	SILT
2	.30	.70	.32	RUBBLE	BOULDER
2	.40	.60	.46	BOULDER	SAND
2	.40	.90	.72	GRAVEL	COBBLE
2	.45	.90	.81	GRAVEL	COBBLE
2	.60	1.10	1.32	GRAVEL	COBBLE
2	.55	.30	.30	RUBBLE	SAND
2	.40	.70	.56	RUBBLE	BOULDER
2	.30	.30	.18	COBBLE	SAND
2	.30	.51	.31	RUBBLE	BOULDER
2	.30	0.00	0.00	GRAVEL	COBBLE
2			0.00		
2	.30	.75	.45	RUBBLE	BOULDER

Table 4-B-15. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
3	.25	0.00	0.00	SILT	
3	.50	.10	.10		
3	.45	.10	.09	SILT	BOULDER
3	.60	.08	.10	SILT	
3	.70	.10	.14	SILT	COBBLE
3	.75	.10	.15	SILT	BOULDER
3	.75	.18	.27	SILT	BOULDER
3	.80	.20	.32	BOULDER	SILT
3	1.00	.20	.40	BOULDER	SILT
3	.70	.10	.12	BOULDER	SILT
3	.45	.20	.18	BOULDER	SILT
3	1.25	.12	.30	RUBBLE	SILT
3	1.00	.15	.30	GRAVEL	RUBBLE
3	1.30	.15	.39	GRAVEL	RUBBLE
3	1.35	.20	.54	SAND	BOULDER
3	.70	.20	.28	BOULDER	SAND
3	1.20	.20	.48	GRAVEL	COBBLE
3	1.15	.10	.23	GRAVEL	COBBLE
3	.90	.10	.18	SAND	
3	.90	.12	.22	SAND	
3	.90	.20	.36	SAND	
3	.80	.10	.16	SAND	RUBBLE
3	.80	.10	.16	SAND	RUBBLE
3	.80	.10	.16	SAND	COBBLE
3	.85	.08	.14	SAND	COBBLE
3	.70	.08	.11	SAND	COBBLE
3	.70	.02	.03	SAND	BOULDER
3	.75	.05	.08	SAND	COBBLE
3	.50	.05	.05	SAND	COBBLE
3	1.00	.05	.10	SAND	BOULDER
3	.15	0.00	0.00	SAND	BOULDER
4	.30	0.00	0.00	SILT	SAND
4	.50	0.00	0.00	SILT	SAND
4	.35	.05	.04	SILT	SAND
4	.20	0.00	0.00	SILT	SAND
4	.20	0.00	0.00	SILT	SAND
4	.20	0.00	0.00	SILT	SAND
4	.25	0.00	0.00	SILT	SAND
4	.20	0.00	0.00	SILT	SAND
4	.20	.05	.02	SILT	SAND
4	.30	.09	.05	SILT	SAND
4	.50	.15	.15	SILT	SAND
4	.50	.24	.24	SILT	SAND
4	.80	.25	.40	SILT	SAND
4	.90	.30	.54	SILT	SAND

Table 4-B-15. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
4	1.10	.30	.66	SILT	SAND
4	1.15	.20	.46	SILT	SAND
4	1.30	.15	.39	SILT	SAND
4	1.40	.12	.34	SILT	SAND
4	1.75	.15	.53	SILT	SAND
4	2.20	.08	.35	SILT	SAND
4	2.35	.08	.38	SILT	SAND
4	2.25	.10	.45	SILT	SAND
4	2.25	.08	.36	SAND	COBBLE
4	1.90	.03	.11	SAND	COBBLE
4	1.70	.03	.10	SAND	COBBLE
4	1.45	0.00	0.00	SAND	COBBLE
4	.90	0.00	0.00	SAND	COBBLE
5	.40	.65	.47	SAND	
5	.40	.40	.32	GRAVEL	RUBBLE
5	.40	.60	.48	GRAVEL	RUBBLE
5	.50	.95	.92	GRAVEL	RUBBLE
5	.65	.35	.46	RUBBLE	COBBLE
5	.40	.72	.58	COBBLE	RUBBLE
5	.70	.15	.21	COBBLE	SAND
5	.50	.40	.40	COBBLE	RUBBLE
5	.60	.22	.26	GRAVEL	RUBBLE
5	.60	.25	.30	GRAVEL	RUBBLE
5	.50	.22	.22	BOULDER	SAND
5	.50	.13	.13	BOULDER	SAND
5	0.00	0.00	0.00	COBBLE	BOULDER
5	0.00	0.00	0.00	COBBLE	BOULDER
5	0.00	0.00	0.00	COBBLE	BOULDER
5	0.00	0.00	0.00	COBBLE	BOULDER
5	.30	.03	.02	COBBLE	BOULDER
5	.40	.10	.08	COBBLE	BOULDER
5	0.00	0.00	0.00	COBBLE	BOULDER
5	.10	.03	.01	RUBBLE	COBBLE
6	.05			GRAVEL	RUBBLE
6	.05			GRAVEL	RUBBLE
6	.10	0.00	0.00	GRAVEL	RUBBLE
6	0.00	0.00	0.00	RUBBLE	COBBLE
6	0.00	0.00	0.00	RUBBLE	COBBLE
6	.10	.12	.02	RUBBLE	COBBLE
6	0.00	0.00	0.00	RUBBLE	COBBLE
6	0.00	0.00	0.00	RUBBLE	COBBLE
6	0.00	0.00	0.00	RUBBLE	COBBLE
6	0.00	0.00	0.00	RUBBLE	COBBLE
6	.10	.18	.04	RUBBLE	COBBLE
6	.15	.60	.18	RUBBLE	COBBLE

Table 4-B-15. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
6	.30	.83	.50	GRAVEL	RUBBLE
6	.35	2.05	1.44	GRAVEL	RUBBLE
6	.40	1.10	.88	GRAVEL	RUBBLE
6	.30	.60	.36	COBBLE	RUBBLE
6	.50	.75	.75	COBBLE	RUBBLE
6	.20	.15	.06	COBBLE	RUBBLE
6	.25	.25	.13	COBBLE	RUBBLE
6	.15	.10	.03	COBBLE	RUBBLE
7	.10		0.00	GRAVEL	RUBBLE
7	.10		0.00	GRAVEL	RUBBLE
7	.35	.22	.15	GRAVEL	RUBBLE
7	.55	.25	.28	GRAVEL	RUBBLE
7	.85	.25	.43	GRAVEL	RUBBLE
7	.90	.35	.63	GRAVEL	RUBBLE
7	1.25	.32	.80	GRAVEL	RUBBLE
7	1.20	.30	.72	GRAVEL	RUBBLE
7	1.35	.25	.68	GRAVEL	RUBBLE
7	1.30	.25	.65	GRAVEL	RUBBLE
7	1.10	.15	.33	COBBLE	
7	.35	.10	.07	BOULDER	SAND
8	.70	0.00	0.00	GRAVEL	RUBBLE
8	.90	0.00	0.00	GRAVEL	RUBBLE
8	.40	0.00	0.00	SAND	
8	.80	.05	.08	SAND	GRAVEL
8	.80	.05	.08	GRAVEL	
8	.65	.05	.07	GRAVEL	
8	.70	.08	.11	GRAVEL	SAND
8	.85	.08	.14	GRAVEL	SAND
8	.80	.09	.14	SAND	GRAVEL
8	.80	.05	.08	SAND	GRAVEL
8	1.20	.05	.12	GRAVEL	
8	1.25	.02	.05	GRAVEL	
8	.95	.05	.10	SAND	
8	.80	.09	.14	SAND	
8	.85	.05	.09	SAND	
8	.95	.05	.10	GRAVEL	SAND
8	1.10	.09	.20	GRAVEL	SAND
8	1.05	.05	.11	SAND	
8	.85	.02	.03	SAND	
8	.90	.01	.02	SAND	
8	.90	.05	.09	SAND	
8	.90	.05	.09	SAND	
8	.80	.08	.13	SAND	
8	.80	.05	.08	SAND	
8	.75	.08	.12	SAND	

Table 4-B-15. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
8	.60	0.00	0.00	SAND	
8	.60	0.00	0.00	SAND	
8	.60	0.00	0.00	SAND	
8	.60	0.00	0.00	SAND	
8	.60	0.00	0.00	SAND	
8	.60	0.00	0.00	SAND	
8	.75	0.00	0.00	SAND	
8	.95	0.00	0.00	SAND	
8	1.20	0.00	0.00	SAND	
8	1.50	.08	.24	SAND	
8	1.40	.08	.22	SAND	
8	1.55	.09	.28	SAND	
8	1.40	.08	.22	SAND	
8	.85	.05	.09	SAND	
8	1.45	.08	.23	SAND	
8	.85	.03	.05	SAND	
8	.75	.03	.05	SAND	
8	.40	0.00	0.00	SAND	
8	.35	0.00	0.00	SAND	
8	.40	0.00	0.00	SAND	
8	.20	0.00	0.00	SAND	
8	.30	0.00	0.00	SAND	
8	.30	0.00	0.00	SAND	
8	.95	.02	.04	SAND	
8	1.00	.20	.40	SAND	
8	1.00	.35	.70	SAND	
8	1.35	.25	.68	SAND	COBBLE
8	1.65	.38	1.25	SAND	COBBLE
8	1.80	.30	1.08	SAND	COBBLE
8	.40	.10	.08	SAND	

Table 4-B-16. Hydraulic habitat variables collected
at transects in Slough 21, Sep 17, 1982.

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1	.15	.05	.01	COBBLE	SILT
1	.25	.05	.03	COBBLE	SILT
1	.30	.18	.11	SAND	
1	.50	.22	.22	SAND	
1	.50	.21	.21	SAND	
1	.60	.38	.46	SAND	
1	.80	.51	.82	SAND	
1	.90	.50	.90	SAND	
1	1.10	.70	1.45	SAND	
1	1.10	1.00	2.07	SAND	
1	1.25	1.13	2.66	SAND	
1	1.30	1.20	2.93	SAND	
1	1.45	1.25	3.41	SAND	
1	1.55	1.60	4.66	SAND	
1	1.50	1.60	4.51	SAND	
1	1.60	1.50	4.51	SAND	
1	1.60	1.70	5.11	SAND	
1	1.70	1.60	5.11	SAND	
1	1.80	1.80	6.09	SAND	
1	2.00	1.70	6.39	SAND	
1	2.20	1.80	7.45	SAND	
1	2.30	2.20	9.51	SAND	
1	2.40	2.45	11.10	SAND	
1	2.50	2.10	9.87	COBBLE	SAND
1	2.60	1.90	9.29	COBBLE	SAND
1	2.90	1.80	9.82	COBBLE	SAND
1	3.00	1.90	10.30	COBBLE	SAND
1	2.80	2.20	11.10	COBBLE	SAND
1	3.00	2.00	10.80	COBBLE	SAND
1	3.10	1.90	10.60	COBBLE	SAND
1	3.10	1.70	9.49	COBBLE	SAND
1	3.20	1.60	9.22	COBBLE	SAND
1	3.20	1.70	9.79	COBBLE	SAND
1	3.40	1.75	10.70	COBBLE	SAND
1	3.30	1.50	10.10	SAND	COBBLE
1	3.50	1.65	9.45	SAND	COBBLE
1	3.50	1.60	10.40	SAND	COBBLE
1	3.50	1.60	10.10	SAND	COBBLE
1	3.80	1.60	11.90	SAND	RUBBLE
1	3.70	1.60	11.80	SAND	RUBBLE
1	3.70	1.65	12.00	SAND	RUBBLE
1	3.50	1.55	10.30	SAND	RUBBLE
1	3.50	1.55	10.60	COBBLE	
1	3.50	1.50	10.30	COBBLE	

Table 4-B-16. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1	3.20	1.50	9.60	COBBLE	
1	3.00	1.40	8.40	COBBLE	
1	3.10	1.35	8.37	COBBLE	
1	3.00	1.55	9.30	COBBLE	
1	3.00	1.40	8.40	COBBLE	
1	3.00	1.25	7.50	COBBLE	
1	3.10	1.30	8.06	COBBLE	
1	3.10	1.35	8.37	BOULDER	COBBLE
1	2.80	1.10	6.16	COBBLE	SAND
1	2.70	1.15	6.21	COBBLE	RUBBLE
1	2.90	1.30	7.54	COBBLE	RUBBLE
1	2.70	1.45	7.83	COBBLE	RUBBLE
1	2.70	1.55	8.37	COBBLE	RUBBLE
1	3.00	1.30	7.80	COBBLE	RUBBLE
1	3.00	1.65	9.90	RUBBLE	SAND
1	3.00	1.50	9.00	RUBBLE	SAND
1	3.10	1.40	8.68	RUBBLE	SAND
1	3.10	1.40	8.68	RUBBLE	SAND
1	3.00	1.30	7.80	RUBBLE	SAND
1	2.60	1.35	7.02	RUBBLE	SAND
1	2.40	1.40	6.72	RUBBLE	SAND
1	2.20	1.50	6.60	RUBBLE	SAND
1	2.10	1.40	5.88	RUBBLE	SAND
1	2.00	1.40	5.60	RUBBLE	SAND
1	2.00	1.60	6.40	COBBLE	
1	2.00	1.30	5.20	COBBLE	
1	2.00	1.40	5.60	COBBLE	
1	2.00	1.10	4.40	COBBLE	
1	1.70	1.40	4.76	COBBLE	
1	1.60	.90	2.88	COBBLE	
1	1.50	1.00	3.00	COBBLE	
1	1.20	1.00	2.40	COBBLE	RUBBLE
1	1.40	.90	2.52	COBBLE	RUBBLE
1	1.00	.80	1.60	COBBLE	RUBBLE
1	1.00	.90	1.80	COBBLE	RUBBLE
1	.90	1.00	1.80	COBBLE	RUBBLE
1	1.00	1.00	2.00	COBBLE	RUBBLE
1	1.40	.60	1.68	COBBLE	RUBBLE
1	1.20	.80	1.92	COBBLE	RUBBLE
1	1.30	.50	1.30	COBBLE	RUBBLE
1	1.00	.90	1.80	COBBLE	RUBBLE
1	.70	.50	.70	COBBLE	RUBBLE
1	.80	.40	.64	COBBLE	RUBBLE
1	.40	.20	.16	COBBLE	RUBBLE
1				COBBLE	RUBBLE

Table 4-B-16. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
2	.20	.18	.11	RUBBLE	SAND
2	.40	.70	1.12	RUBBLE	GRAVEL
2	1.00	1.40	5.60	RUBBLE	GRAVEL
2	1.40	2.00	11.20	RUBBLE	GRAVEL
2	1.60	2.00	12.80	RUBBLE	GRAVEL
2	1.80	2.20	15.80	RUBBLE	GRAVEL
2	2.30	2.20	20.20	RUBBLE	GRAVEL
2	2.70	2.70	28.30	RUBBLE	GRAVEL
2	2.30	3.00	26.80	RUBBLE	GRAVEL
2	2.25	2.80	24.40	RUBBLE	GRAVEL
2	2.20	2.60	21.70	RUBBLE	GRAVEL
2	1.80	2.40	16.40	RUBBLE	GRAVEL
2	1.70	2.00	12.90	COBBLE	RUBBLE
2	1.50	3.00	14.40	COBBLE	RUBBLE
2	1.50	1.60	7.68	COBBLE	RUBBLE
2	1.50	2.10	10.10	COBBLE	RUBBLE
2	1.60	2.20	11.30	COBBLE	RUBBLE
2	1.40	2.30	12.20	COBBLE	RUBBLE
2	1.40	1.70	8.57	COBBLE	RUBBLE
2	1.20	1.50	6.48	COBBLE	RUBBLE
2	1.30	1.80	8.42	COBBLE	RUBBLE
2	1.10	1.70	6.73	COBBLE	RUBBLE
2	.80	1.40	3.14	COBBLE	RUBBLE
2	.90	1.30	3.28	COBBLE	RUBBLE
2	1.00	1.50	4.20	COBBLE	RUBBLE
2	1.00	1.10	3.08	COBBLE	RUBBLE
2	1.20	.90	3.02	COBBLE	RUBBLE
2	1.20	1.10	5.28	COBBLE	RUBBLE
2	1.20	.90	3.89	COBBLE	RUBBLE
2	1.30	.70	3.28	COBBLE	RUBBLE
2	1.20	.65	3.12	COBBLE	RUBBLE
2	1.20	.70	3.36	COBBLE	SAND
2	1.10	.80	3.52	COBBLE	RUBBLE
2	1.20	.70	3.36	COBBLE	RUBBLE
2	1.45	.80	4.64	COBBLE	RUBBLE
2	1.50	.95	5.70	COBBLE	RUBBLE
2	1.40	1.15	6.44	COBBLE	RUBBLE
2	1.40	1.40	7.84	COBBLE	RUBBLE
2	1.50	2.80	10.80	COBBLE	RUBBLE
2	1.50	2.10	12.60	COBBLE	RUBBLE
2	1.90	1.70	12.90	COBBLE	RUBBLE
2	2.00	1.85	14.80	COBBLE	RUBBLE
2	2.20	1.90	16.70	COBBLE	RUBBLE
2	2.30	1.65	15.20	COBBLE	RUBBLE
2	2.10	1.65	13.90	COBBLE	RUBBLE

Table 4-B-16. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
2	2.00	1.55	12.40	COBBLE	RUBBLE
2	2.00	1.70	13.60	COBBLE	RUBBLE
2	2.10	1.30	10.90	COBBLE	RUBBLE
2	2.10	1.20	10.10	COBBLE	RUBBLE
2	2.00	.95	7.60	COBBLE	RUBBLE
2	1.50	.73	4.38	BOULDER	RUBBLE
2	1.50	.50	3.00	BOULDER	RUBBLE
2	1.45	.35	2.03	SILT	BOULDER
2	1.40	.40	2.24	SILT	BOULDER
2	.50	0.00	0.00		
3	.50	.10	.07	RUBBLE	SILT
3	1.30	.35	.91	SILT	
3	1.60	.55	1.76	SILT	
3	1.60	.50	1.60	SILT	
3	1.80	.60	2.16	SILT	
3	2.00	.60	2.40	SILT	
3	2.00	.61	2.44	SILT	
3	2.20	.80	3.52	SILT	RUBBLE
3	1.80	.92	6.62	COBBLE	SILT
3	2.20	.96	8.45	COBBLE	SILT
3	2.45	1.30	12.70	COBBLE	SILT
3	2.35	1.15	10.80	COBBLE	SILT
3	2.50	1.15	11.50	COBBLE	SILT
3	2.75	1.28	14.10	COBBLE	SILT
3	2.60	1.10	11.40	SILT	
3	2.60	1.48	15.40	RUBBLE	GRAVEL
3	2.60	1.10	11.40	RUBBLE	GRAVEL
3	1.00	1.50	6.00	BOULDER	
3	2.40	1.10	10.60	RUBBLE	SILT
3	2.20	1.15	10.10	RUBBLE	SILT
3	2.20	.90	7.92	RUBBLE	SILT
3	2.10	.90	7.56	RUBBLE	SILT
3	1.60	.80	5.12	RUBBLE	SILT
3	1.40	.80	4.48	COBBLE	SILT
3	.75	.38	1.14	COBBLE	SILT
4				SAND	
4	.10	0.00	0.00	SAND	
4	1.40	.30	1.68	SAND	
4	1.50	.30	1.80	SAND	
4	1.60	.70	4.48	SAND	
4	1.75	.75	5.25	SAND	
4	1.50	.85	5.10	SAND	
4	1.60	1.10	7.04	SAND	
4	1.70	1.40	9.52	SAND	
4	1.85	1.45	10.70	SAND	

Table 4-B-16. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
4	2.10	1.35	11.30	SAND	
4	2.50	1.33	13.30	SAND	
4	2.60	1.35	13.50	SAND	
4	2.90	1.40	16.20	SAND	
4	3.60	1.33	19.20	SAND	
4	4.00	1.18	18.90	SAND	
4	3.50	.78	10.90	SAND	
4	3.00	.73	8.76	SILT	
4	2.15	.50	4.30	BOULDER	SILT
5				SAND	
5	.20	.18	.10	SAND	
5	.50	.79	1.58	SAND	
5	.60	.90	2.16	SAND	
5	.50	1.00	2.00	SAND	
5	.60	1.10	2.64	SAND	
5	.70	.95	2.66	SAND	
5	.90	.90	3.24	SAND	
5	.90	1.20	4.32	SAND	
5	1.35	1.50	8.10	SAND	
5	1.55	1.40	8.68	SAND	
5	1.90	1.45	11.00	SAND	
5	2.10	1.70	14.30	COBBLE	RUBBLE
5	2.30	1.40	12.90	COBBLE	RUBBLE
5	2.00	1.90	15.20	RUBBLE	GRAVEL
5	2.10	1.65	13.90	RUBBLE	GRAVEL
5	2.10	1.85	15.50	COBBLE	RUBBLE
5	1.90	1.30	9.88	BOULDER	COBBLE
5	1.50	1.25	7.50	COBBLE	RUBBLE
5	1.90	1.20	9.12	COBBLE	RUBBLE
5	2.00	.85	6.80	SILT	RUBBLE
5	1.85	.40	2.96	COBBLE	RUBBLE
5	.50	0.00	0.00	SILT	
6	.30	0.00	0.00	SAND	SILT
6	.70	.15	.42	SAND	SILT
6	.40	.70	1.12	SAND	SILT
6	.70	.95	2.66	SAND	
6	.75	1.10	3.30	SAND	
6	.80	1.50	4.80	SAND	
6	.80	1.40	4.48	SAND	
6	.80	1.60	5.12	SAND	RUBBLE
6	.80	1.50	4.80	SAND	RUBBLE
6	1.00	1.50	6.00	GRAVEL	
6	1.00	1.70	6.80	GRAVEL	RUBBLE
6	1.20	1.65	7.92	GRAVEL	RUBBLE
6	1.40	1.50	8.40	GRAVEL	RUBBLE

Table 4-B-16. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
6	1.30	1.80	9.36	GRAVEL	RUBBLE
6	1.30	1.70	8.84	GRAVEL	RUBBLE
6	1.40	2.40	13.40	GRAVEL	RUBBLE
6	1.50	2.10	12.60	GRAVEL	RUBBLE
6	1.90	2.05	15.60	GRAVEL	RUBBLE
6	1.80	2.40	17.30	GRAVEL	RUBBLE
6	1.40	1.50	8.40	GRAVEL	RUBBLE
6	1.60	.90	5.76	GRAVEL	RUBBLE
6	1.10	.70	3.08	GRAVEL	RUBBLE
6	1.10	.50	2.20	BOULDER	COBBLE
7	.30	.55	4.79	SAND	
7	.50	.70	1.40	SAND	GRAVEL
7	1.20	1.20	5.76	SAND	GRAVEL
7	.70	1.40	3.92	GRAVEL	SAND
7	.70	1.55	4.34	GRAVEL	SAND
7	.70	1.50	4.20	GRAVEL	SAND
7	.90	1.80	6.48	GRAVEL	SAND
7	.90	1.80	6.48	GRAVEL	
7	1.20	2.00	9.60	GRAVEL	
7	1.40	1.90	10.60	GRAVEL	RUBBLE
7	2.10	1.70	14.30		
7	2.40	2.45	23.50	COBBLE	RUBBLE
7	2.45	2.50	24.50	COBBLE	RUBBLE
7	2.50	1.95	19.50	COBBLE	RUBBLE
7	1.90	.75	5.70	COBBLE	RUBBLE

Table 4-B-17. Hydraulic habitat variables collected
at transects in Slough 21, Sep 19, 1982.

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
1	.20	0.00	0.00	SAND	SILT
1	.30	0.00	0.00	SAND	SILT
1	.45	0.00	0.00	SAND	SILT
1	.75	.05	.15	SAND	SILT
1	.95	.05	.19	SAND	SILT
1	1.10	.10	.44	SAND	SILT
1	1.60	0.00	0.00	SAND	RUBBLE
1	1.65	0.00	0.00	SAND	RUBBLE
1	1.70	0.00	0.00	SAND	SILT
1	1.90	0.00	0.00	SAND	SILT
1	2.00	0.00	0.00	SAND	SILT
1	2.20	.05	.44	SAND	SILT
1	2.40	0.00	0.00	SAND	RUBBLE
1	2.30	.05	.46	SAND	COBBLE
1	2.30	.10	.92	SAND	COBBLE
1	2.10	.15	1.26	RUBBLE	GRAVEL
1	1.80	.10	.72	RUBBLE	GRAVEL
1	1.80	.10	.72	COBBLE	RUBBLE
1	1.70	.15	1.02	COBBLE	RUBBLE
1	1.70	.10	.68	RUBBLE	COBBLE
1	1.40	.10	.56	BOULDER	COBBLE
1	1.40	.15	.84	COBBLE	RUBBLE
1	1.70	.15	1.02	COBBLE	RUBBLE
1	1.90	.10	.76	COBBLE	RUBBLE
1	1.60	.05	.32	RUBBLE	SAND
1	1.00	0.00	0.00	COBBLE	
1	1.20	0.00	0.00	COBBLE	SAND
1	.50	0.00	0.00	BOULDER	COBBLE
1	.80	0.00	0.00	COBBLE	RUBBLE
1	.50	0.00	0.00	COBBLE	RUBBLE
1	.20	0.00	0.00	COBBLE	RUBBLE
1	.20	0.00	0.00	BOULDER	COBBLE
2	.05	0.00	0.00	RUBBLE	GRAVEL
2	.10	0.00	0.00	RUBBLE	GRAVEL
2	.40	0.00	0.00	RUBBLE	GRAVEL
2	.80	0.00	0.00	RUBBLE	GRAVEL
2	.95	0.00	0.00	COBBLE	RUBBLE
2	1.00	0.00	0.00	COBBLE	RUBBLE
2	.80	0.00	0.00	COBBLE	RUBBLE
2	.55	0.00	0.00	RUBBLE	GRAVEL
2	.35	0.00	0.00	COBBLE	RUBBLE
2	.30	0.00	0.00	COBBLE	RUBBLE
2	.20	0.00	0.00	COBBLE	RUBBLE
2	.20	0.00	0.00	RUBBLE	GRAVEL

Table 4-B-17. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
2	.30	0.00	0.00	COBBLE	RUBBLE
2	.25	0.00	0.00	RUBBLE	COBBLE
2	.20	0.00	0.00	RUBBLE	COBBLE
2	0.00	0.00	0.00	COBBLE	RUBBLE
2				COBBLE	RUBBLE
2				COBBLE	RUBBLE
2	.15	0.00	0.00	COBBLE	RUBBLE
2	.25	.15	.15	COBBLE	RUBBLE
2	.40	.10	.16	COBBLE	RUBBLE
2	.05	0.00	0.00	COBBLE	RUBBLE
2	.30	.15	.18	COBBLE	RUBBLE
2	.35	.40	.56	COBBLE	RUBBLE
2	.60	.45	1.08	COBBLE	RUBBLE
2	.90	.45	1.62	COBBLE	RUBBLE
2	1.10	.40	1.76	COBBLE	RUBBLE
2	.90	.45	1.62	COBBLE	RUBBLE
2	1.00	.25	1.00	COBBLE	RUBBLE
2	.80	.35	1.12	BOULDER	COBBLE
2	.70	.30	.84	BOULDER	COBBLE
2	.70	.10	.28	BOULDER	COBBLE
2	.50	.10	.20	COBBLE	RUBBLE
2	.30	.10	.12	GRAVEL	SAND
2	.20	0.00	0.00	BOULDER	COBBLE
2	.20	0.00	0.00	SILT	COBBLE
2	.30	0.00	0.00	SILT	COBBLE
2	.20	0.00	0.00	SILT	BOULDER
3				SILT	
3	.35	.02	.01	SILT	
3	.35	.10	.07	SILT	
3	.55	.05	.06	SILT	
3	.55	.10	.11	SILT	
3	.70	.10	.14	SILT	
3	1.00	.05	.10	SILT	COBBLE
3	.95	.10	.19	SILT	RUBBLE
3	.90	.04	.07	SILT	RUBBLE
3	.70	.02	.03	COBBLE	SILT
3	.90	.10	.18	SILT	
3	1.15	.12	.28	RUBBLE	SILT
3	1.20	.20	.48	COBBLE	RUBBLE
3	1.40	.15	.42	COBBLE	RUBBLE
3	1.15	.15	.35	COBBLE	SILT
3	1.35	.20	.54	SILT	BOULDER
3	1.05	.20	.42	SILT	BOULDER
3	1.50	.20	.60	SILT	RUBBLE
3	1.55	.20	.62	SILT	GRAVEL

Table 4-B-17. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
3	1.45	.15	.44	SILT	GRAVEL
3	1.20	.15	.36	SILT	BOULDER
3	1.25	.18	.45	SILT	
3	1.30	.20	.52	RUBBLE	GRAVEL
3	1.10	.05	.11	RUBBLE	SILT
3	1.40	.22	.62	RUBBLE	
3	1.30	.20	.52	RUBBLE	
3	1.30	.13	.34	RUBBLE	
3	1.20	.18	.43	SILT	RUBBLE
3	1.10	.15	.33	SILT	RUBBLE
3	1.05	.18	.38	SILT	RUBBLE
3	1.20	.16	.38	SILT	COBBLE
3	1.30	.14	.36	COBBLE	RUBBLE
3	1.00	.10	.20	SILT	COBBLE
3	1.10	.10	.22	SILT	COBBLE
3	.90	.10	.18	SILT	COBBLE
3	.80	.01	.02	COBBLE	SILT
3	.40	0.00	0.00	COBBLE	SILT
3	.30	0.00	0.00	COBBLE	SILT
3	.20	0.00	0.00	COBBLE	SILT
4	.15	.05	.02	SILT	
4	.20	.07	.03	SILT	
4	.20	.03	.01	SILT	
4	.30	0.00	0.00	SILT	
4	.45	0.00	0.00	SILT	
4	.50	.05	.05	SILT	
4	.40	0.00	0.00	SILT	
4	.25	.02	.01	SILT	
4	.25	.05	.03	SILT	
4	.30	.08	.05	SILT	
4	.40	.10	.08	SILT	
4	.50	.10	.10	SILT	
4	.45	.15	.14	SILT	
4	.50	.16	.16	SILT	
4	.65	.21	.27	SILT	
4	.80	.23	.37	SILT	
4	1.05	.21	.44	SILT	
4	1.20	.20	.48	SILT	
4	1.30	.20	.52	SILT	
4	1.40	.20	.56	SILT	
4	1.50	.19	.57	SILT	
4	1.75	.15	.53	SILT	
4	2.00	.15	.60	SILT	
4	2.30	.19	.87	SILT	
4	2.60	.18	.94	SILT	

Table 4-B-17. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
4	2.80	.17	.95	SILT	
4	2.55	.13	.66	SILT	
4	2.35	.10	.47	SILT	
4	2.00	.06	.24	SILT	BOULDER
4	1.70	.05	.17	SILT	BOULDER
4	1.40	.01	.03	BOULDER	SILT
4	0.00	.07	.08	COBBLE	SILT
5	0.00				
5	.05	0.00	0.00	SILT	
5	.20	.10	.04	SILT	
5	.30	.28	.17	SILT	
5	.50	.30	.30	SILT	
5	.60	.35	.42	SILT	
5	.70	.42	.59	SILT	
5	.60	.40	.48	BOULDER	SAND
5	1.10	.61	1.34	SAND	COBBLE
5	1.10	.43	.99	BOULDER	COBBLE
5	.85	.46	.78	BOULDER	COBBLE
5	.75	.41	.62	BOULDER	COBBLE
5	.80	.42	.67	BOULDER	COBBLE
5	.90	.45	.81	BOULDER	COBBLE
5	.95	.30	.57	GRAVEL	COBBLE
5	.85	.12	.20	COBBLE	BOULDER
5	.85	.05	.09	COBBLE	BOULDER
5	.70	.05	.07	COBBLE	BOULDER
5	.30	.02	.01	COBBLE	BOULDER
5	.40	.18	.14	COBBLE	BOULDER
5	.45	.12	.11	COBBLE	BOULDER
5	.60	.12	.14	COBBLE	BOULDER
5	.70	.20	.28	COBBLE	BOULDER
5	.70	.05	.07	COBBLE	SILT
5	.60	.18	.22	SILT	COBBLE
5	.40	.20	.16		
6	.04				
6	.05	0.00	0.00	GRAVEL	RUBBLE
6	.10	.10	.02	GRAVEL	RUBBLE
6	.20	.20	.08	GRAVEL	RUBBLE
6	.30	.84	.48	GRAVEL	RUBBLE
6	.30	.75	.45	RUBBLE	COBBLE
6	.25	.29	.15	RUBBLE	COBBLE
6	.20	.37	.15	RUBBLE	COBBLE
6	.20	.40	.16	RUBBLE	COBBLE
6	.10	.05	.01	RUBBLE	COBBLE
6	.10	.40	.08	RUBBLE	COBBLE
6	.20	.20	.08	RUBBLE	COBBLE

Table 4-B-17. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
6	.20	.40	.16	RUBBLE	COBBLE
6	.20	.38	.12	RUBBLE	COBBLE
6	.40	1.30	1.04	RUBBLE	COBBLE
6	.45	1.75	1.58	RUBBLE	COBBLE
6	.70	2.10	2.94	RUBBLE	COBBLE
6	.65	1.20	1.56	RUBBLE	COBBLE
6	.70	.50	.70	RUBBLE	COBBLE
6	.60	.50	.60	RUBBLE	COBBLE
6	.40	.38	.30	RUBBLE	COBBLE
6	.40	.20	.16	RUBBLE	COBBLE
6	.30	.60	.36	RUBBLE	COBBLE
6	.10	.05	.01	RUBBLE	COBBLE
6	.10	0.00	0.00	BOULDER	RUBBLE
6	.10	0.00	0.00	BOULDER	RUBBLE
7	.10	0.00	0.00	GRAVEL	RUBBLE
7	.20	.12	.05	GRAVEL	RUBBLE
7	.30	.20	.12	GRAVEL	RUBBLE
7	.50	.29	.29	GRAVEL	RUBBLE
7	.90	.35	.63	COBBLE	RUBBLE
7	1.00	.38	.76	COBBLE	RUBBLE
7	1.00	.32	.64	COBBLE	RUBBLE
7	1.30	.55	1.43	COBBLE	RUBBLE
7	1.60	.55	1.76	COBBLE	RUBBLE
7	1.65	.50	1.65	COBBLE	RUBBLE
7	1.50	.35	1.05	RUBBLE	BOULDER
7	1.50	.20	.60	BOULDER	RUBBLE
7	.50	.25	.25	BOULDER	RUBBLE
8	.80	.75	.96	GRAVEL	RUBBLE
8	.80	.35	.48	GRAVEL	RUBBLE
8	.70	.20	.24	GRAVEL	
8	1.00	.01	.02	GRAVEL	
8	1.10	.10	.09	GRAVEL	
8	1.20	.10	0.00	GRAVEL	
8	1.20	.11	0.00	GRAVEL	
8	1.10	.11	0.00	GRAVEL	
8	1.10	.10	0.00	GRAVEL	
8	1.10	.10	0.00	GRAVEL	
8	1.25	.08	0.00	SAND	GRAVEL
8	1.30	.10	0.00	SAND	GRAVEL
8	1.35	.12	0.00	SAND	
8	1.30	.12	0.00	SAND	GRAVEL
8	1.30	.08	0.00	SAND	GRAVEL
8	1.30	.08	0.00	SAND	GRAVEL
8	1.40	.15	0.00	SAND	GRAVEL
8	1.70	.15	0.00	SAND	GRAVEL

Table 4-B-17. (Continued).

TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	FLOW (cfs)	SUBSTRATE	
				PRIMARY	SECONDARY
8	1.70	.15	0.00	SAND	GRAVEL
8	1.80	.15	0.00	SAND	GRAVEL
8	1.95	.15	0.00	SAND	GRAVEL
8	2.00	.12	0.00	SAND	
8	2.10	.12	0.00	SAND	
8	2.30	.10	0.00	SAND	
8	2.40	.28	0.00	SAND	
8	2.35	.01	0.00	SAND	
8	2.20	.08	0.00	SAND	
8	2.10	.05	0.00	SAND	BOULDER
8	2.10	.10	0.00	SAND	
8	1.90	.12	0.00	SAND	
8	1.80	.10	.34	SAND	
8	2.80	.30	1.60	SAND	
8	1.50	.05	.14	SAND	
8	1.40	.15	.39	SAND	
8	1.30	.10	.24	SAND	
8	1.20	.20	.36	SAND	
8	1.30	.10	.18	SAND	
8	1.60	.35	.78	SAND	
8	1.50	.15	.14	SAND	
8	1.40	.25	.21	SAND	
8	1.45	.22	.13	SAND	
8	1.20	.42	0.00	SAND	
8	1.20	.30	0.00	SAND	
8	.80	.40	0.00	SAND	
8	1.20	.10	.02	SAND	
8	1.00	.20	.04	SAND	
8	.85	.15	.03	SAND	
8	.50	.20	.08	SAND	
8	.75	.15	1.80	SAND	
8	1.15	.30	.55	SAND	
8	1.10	.32	.68	SAND	
8	1.50	.30	.87	SAND	COBBLE
8	1.10	.32	.68	GRAVEL	RUBBLE
8	1.80	.30	1.08	BOULDER	RUBBLE
8	.70	.20	.28	SAND	

Appendix Table 4-B-18. Depths (ft) and velocities (ft/sec) associated with chum salmon redds in four sloughs at three discharges (Q, cfs) in 1982.

		Depth				Velocity			
		<u>Q₁*</u>	<u>Q₂**</u>	<u>Q₃***</u>	<u>Average</u>	<u>Q₁*</u>	<u>Q₂**</u>	<u>Q₃***</u>	<u>Average</u>
Slough 8A	$\bar{x}$	0.67	0.72		0.70	0.03	0.36		0.30
	Range	0.30-1.30	0.20-1.60		0.20-1.60	0.00-1.45	0.05-0.72		0.00-1.45
	N	26	11		37	26	11		37
	Q (cfs)	4	7			4	7		
Slough 9	$\bar{x}$	1.24	1.27		1.25	0.13	0.16		0.14
	Range	0.30-2.40	0.40-2.10		0.30-2.4	0.05-0.40	0.00-0.78		0.00-0.78
	N	28	20		48	28	20		48
	Q (cfs)	3	8			3	8		
Slough 11	$\bar{x}$		1.21	1.33	1.28		0.13	0.45	.32
	Range		0.60-2.20	0.55-2.10	.55-2.20		0.00-0.61	0.05-1.00	0.00-1.00
	N		6	9	15		6	9	15
	Q (cfs)								
Slough 21	$\bar{x}$		1.02		1.02		0.22		0.22
	Range		0.40-2.60		0.40-2.60		0.00-1.10		0.00-1.10
	N		33		33		33		33
	Q (cfs)		5				5		

*Q₁ = 25-26 August**Q₂ = 2-7 September***Q₃ = 20 September

Table 4-B-19. Depths (ft) and velocities (ft/sec) associated with pink salmon and sockeye salmon redds in three sloughs at three discharges (Q , cfs) in 1982.

PINK SALMON									
		<u>Depth</u>				<u>Velocity</u>			
		<u>Q_1^*</u>	<u>Q_2^{**}</u>	<u>Q_3^{***}</u>	<u>Average</u>	<u>Q_1^*</u>	<u>Q_2^{**}</u>	<u>Q_3^{***}</u>	<u>Average</u>
Slough 8A	$\bar{x}$	0.30			0.30	0.80			0.80
	Range	-			-	-			-
	N	1			1	1			1
	Q	4			4	4			4
Slough 9	$\bar{x}$	0.68			0.68	0.25			0.25
	Range	0.55-0.80			0.55-0.80	0.20-0.30			0.20-0.30
	N	2			2	2			2
	Q	3			3	3			3
SOCKEYE SALMON									
		<u>Depth</u>				<u>Velocity</u>			
		<u>Q_1^*</u>	<u>Q_2^{**}</u>	<u>Q_3^{***}</u>	<u>Average</u>	<u>Q_1^*</u>	<u>Q_2^{**}</u>	<u>Q_3^{***}</u>	<u>Average</u>
Slough 9	$\bar{x}$	0.5			0.5	0.05			0.05
	Range	-			-	-			-
	N	1			1	1			1
	Q	7			7	7			7
Slough 11	$\bar{x}$	0.85	1.51	1.48		0.00	0.23	0.22	
	Range	-	0.75-2.80	0.75-2.80		-	0.00-0.80	0.00-0.80	
	N	1	22	23		1	22	23	
	Q	-	-	-		-	-	-	

* Q_1 = 25-26 August** Q_2 = 2-7 September*** Q_3 = 20 September

Table 4-B-20. Hydraulic habitat variables collected at chum redds. (Transect number indicates the transect area in which the redd was located).

LOCATION	DATE	TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	SUBSTRATE		INTRAGRAVEL	SURFACE WATER	REDD NUMBER
					PRIMARY	SECONDARY	TEMPERATURE (°C)	TEMPERATURE (°C)	
SLOUGH 8A	820826	OC	.50	1.45	GRAVEL	RUBBLE	11.4	12.6	C03
SLOUGH 8A	820826	OC	.80	0.00	GRAVEL	RUBBLE	11.2	13.0	C02
SLOUGH 8A	820826	OC	.40	.10	GRAVEL	RUBBLE		13.2	C04
SLOUGH 8A	820826	OC	.30	.05	GRAVEL	RUBBLE		13.2	C15
SLOUGH 8A	820826	OC	.40	.05	GRAVEL	RUBBLE		13.2	C14
SLOUGH 8A	820826	OC	.50	.10	GRAVEL	COBBLE		12.8	C13
SLOUGH 8A	820826	OC	1.00	.10	GRAVEL	RUBBLE		13.2	C11
SLOUGH 8A	820826	OC	1.10	.10	GRAVEL	RUBBLE		13.2	C09
SLOUGH 8A	820826	OC	1.10	.10	GRAVEL	RUBBLE		13.2	C08
SLOUGH 8A	820826	OC	1.10	.10	GRAVEL	RUBBLE		13.2	C07
SLOUGH 8A	820826	OC	1.00	.10	GRAVEL	RUBBLE		13.1	C06
SLOUGH 8A	820826	OC	.60	.15	GRAVEL	RUBBLE		13.0	C05
SLOUGH 8A	820826	OC	.60	.10	GRAVEL	RUBBLE		13.2	C10
SLOUGH 8A	820826	OC	.90	.10	GRAVEL	RUBBLE		13.0	C01
SLOUGH 8A	820826	OC	.40	.10	GRAVEL	RUBBLE		13.0	C12
SLOUGH 8A	820826	BC	.30	.03	GRAVEL	RUBBLE		12.4	C22
SLOUGH 8A	820826	BC	.50	0.00	GRAVEL	RUBBLE		12.4	C21
SLOUGH 8A	820826	BC	.45	1.05	GRAVEL	RUBBLE		12.4	C16
SLOUGH 8A	820826	BC	.50	.55	RUBBLE	GRAVEL		12.4	C18
SLOUGH 8A	820826	BC	.45	.75	RUBBLE	GRAVEL		12.0	C17
SLOUGH 8A	820826	BC	.30	.72	GRAVEL	RUBBLE		12.4	C19
SLOUGH 8A	820826	BC	.35	.05	RUBBLE	GRAVEL			C23
SLOUGH 8A	820826	BC	.40	.90	RUBBLE	GRAVEL		12.0	C24
SLOUGH 8A	820826	BC	1.30	.18	RUBBLE	GRAVEL		12.0	C25
SLOUGH 8A	820826	BC	1.05	.18	RUBBLE	GRAVEL		11.5	C26
SLOUGH 8A	820826	BC	1.00	.19	RUBBLE	GRAVEL		11.0	C27

Table 4-B-20. (Continued).

LOCATION	DATE	TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	SUBSTRATE		INTRAGRAVEL TEMPERATURE (°C)	SURFACE WATER TEMPERATURE (°C)	REDD NUMBER
					PRIMARY	SECONDARY			
SLOUGH 8A	820906		1.60	.10	GRAVEL	RUBBLE		7.6	C40
SLOUGH 8A	820906		1.00	.05	GRAVEL	RUBBLE	5.1	7.6	C41
SLOUGH 8A	820906		.60	.30	GRAVEL	RUBBLE	6.7	7.6	C42
SLOUGH 8A	820906		.80	.33	RUBBLE	GRAVEL	4.9	7.6	C43
SLOUGH 8A	820906		.70	.20	GRAVEL	COBBLE	6.1	7.6	C44
SLOUGH 8A	820906		.60	.65	RUBBLE	COBBLE		7.6	C45
SLOUGH 8A	820906		.50	.45	GRAVEL	RUBBLE	4.9	7.6	C46
SLOUGH 8A	820906		.20	.20	RUBBLE	GRAVEL	5.7	7.6	C47
SLOUGH 8A	820906		.70	.40	GRAVEL	RUBBLE	6.9	7.6	C48
SLOUGH 8A	820906		.90	.55	RUBBLE	COBBLE	5.2	7.6	C49
SLOUGH 8A	820906		.40	.72	GRAVEL	RUBBLE		7.6	C50
SLOUGH 9	820825	02						8.8	C01
SLOUGH 9	820826	02	.60	.40	COBBLE	GRAVEL	3.8	8.2	C01
SLOUGH 9	820826	02	.80	.10	COBBLE	GRAVEL	4.0	7.6	C02
SLOUGH 9	820826	02	.70	.10	COBBLE	GRAVEL	3.4	7.6	C03
SLOUGH 9	820826	02	.90	.05	COBBLE	GRAVEL	4.2	7.8	C04
SLOUGH 9	820826	02			COBBLE	GRAVEL			C05
SLOUGH 9	820826	01	1.10	.10	RUBBLE	GRAVEL	3.9	8.8	C06
SLOUGH 9	820826	01	.75	.10	COBBLE	GRAVEL	4.8	9.8	C27
SLOUGH 9	820826	01	1.90	.05	COBBLE	GRAVEL	4.4	8.8	C26
SLOUGH 9	820826	01	1.90	.05	RUBBLE	GRAVEL	4.5	9.4	C07
SLOUGH 9	820826	01	1.80	.10	GRAVEL	RUBBLE	5.2	9.8	C08
SLOUGH 9	820826	01	1.25	.10	COBBLE	GRAVEL	4.3	9.4	C09
SLOUGH 9	820826	01	1.30	.10	GRAVEL	RUBBLE	4.7	9.2	C10

4-B-92

Table 4-B-20. (Continued).

LOCATION	DATE	TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	SUBSTRATE		INTRAGRAVEL TEMPERATURE (°C)	SURFACE WATER TEMPERATURE (°C)	REDD NUMBER
					PRIMARY	SECONDARY			
4-B-93	SLOUGH 9	820826	01	1.40	.10	COBBLE GRAVEL	4.7	9.4	C11
	SLOUGH 9	820826	01	1.50	.10	RUBBLE GRAVEL	6.0	9.2	C12
	SLOUGH 9	820826	01	1.70	.15	GRAVEL RUBBLE	5.4	9.4	C13
	SLOUGH 9	820826	01	1.10	.15	RUBBLE GRAVEL	4.0	9.2	C14
	SLOUGH 9	820826	01	1.10	.15	RUBBLE GRAVEL	4.5	9.2	C15
	SLOUGH 9	820826	01	1.30	.20	RUBBLE GRAVEL	4.5	9.6	C16
	SLOUGH 9	820826	01	.70	.10	COBBLE GRAVEL	5.4	10.0	C17
	SLOUGH 9	820826	0C	1.70	.15	RUBBLE GRAVEL	3.9	11.0	C19
	SLOUGH 9	820826	0C	1.80	.10	BOULDER COBBLE	3.5	10.2	C20
	SLOUGH 9	820826	0C	1.50	.10	COBBLE RUBBLE	4.0	9.6	C21
	SLOUGH 9	820826	0C	2.40	.10	COBBLE GRAVEL	4.4	10.4	C22
	SLOUGH 9	820826	0C	1.40	.15	COBBLE GRAVEL	6.3	10.1	C25
	SLOUGH 9	820905		1.70	0.00	GRAVEL RUBBLE	8.2	8.7	C46
	SLOUGH 9	820905		2.10	.02	GRAVEL RUBBLE	8.2	8.9	C47
	SLOUGH 9	820905		2.10	.02	GRAVEL RUBBLE	7.8	8.9	C28
	SLOUGH 9	820905		1.20	.10	COBBLE RUBBLE	6.4	8.8	C29
	SLOUGH 9	820905		1.30	.11	COBBLE RUBBLE	5.9	8.6	C30
	SLOUGH 9	820905		1.00	.08	RUBBLE COBBLE	6.0	8.8	C31
	SLOUGH 9	820905		1.05	.11	RUBBLE COBBLE	6.1	8.8	C32
	SLOUGH 9	820905		1.30	.10	COBBLE RUBBLE	6.1	8.9	C33
	SLOUGH 9	820905		1.30	.10	RUBBLE COBBLE	7.0	9.0	C34
	SLOUGH 9	820905		1.30	.05	COBBLE RUBBLE	6.1	8.8	C35
	SLOUGH 9	820905		.75	.17	GRAVEL RUBBLE	4.6	8.4	C36
	SLOUGH 9	820905		.50	.41	GRAVEL RUBBLE	5.5	8.8	C37
	SLOUGH 9	820905		.40	.78	GRAVEL RUBBLE	4.2	8.8	C38
	SLOUGH 9	820905		1.80	.14	RUBBLE GRAVEL		9.0	C39

Table 4-B-20. (Continued).

LOCATION	DATE	TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	SUBSTRATE		INTRAGRAVEL TEMPERATURE (°C)	SURFACE WATER TEMPERATURE (°C)	REDD NUMBER
					PRIMARY	SECONDARY			
SLOUGH 9	820905		1.60	.21	RUBBLE	GRAVEL		9.0	C40
SLOUGH 9	820905		1.25	.22	RUBBLE	COBBLE		8.8	C41
SLOUGH 9	820905		1.25	.14	COBBLE	GRAVEL		8.6	C42
SLOUGH 9	820905		1.40	.20	COBBLE	GRAVEL		8.6	C43
SLOUGH 9	820906		1.10	.20	GRAVEL	COBBLE		7.0	C44
SLOUGH 9	820906		1.00	.11	GRAVEL	COBBLE		6.6	C45
SLOUGH 11	820905		.60	.15	GRAVEL	RUBBLE	5.0	7.1	
SLOUGH 11	820905		.70	.61	GRAVEL	RUBBLE	6.1	7.0	
SLOUGH 11	820905		.80	0.00	RUBBLE	GRAVEL		7.0	
SLOUGH 11	820905		2.20	0.00	GRAVEL	COBBLE	4.3	6.8	
SLOUGH 11	820905		.85	0.00	COBBLE	RUBBLE	4.3	6.8	
SLOUGH 11	820905		2.10	0.00	COBBLE	GRAVEL	4.1	7.0	
SLOUGH 11	820920		1.45	.12	COBBLE	GRAVEL	4.6		C01
SLOUGH 11	820920		2.10	.20	GRAVEL	RUBBLE	4.3		C02
SLOUGH 11	820920		2.05	.05	GRAVEL	RUBBLE	4.9		C03
SLOUGH 11	820920		1.20	.45	GRAVEL	RUBBLE	4.5		C04
SLOUGH 11	820920		1.35	.70	GRAVEL	RUBBLE	4.4		C05
SLOUGH 11	820920		.90	.75	GRAVEL	RUBBLE	5.0		C06
SLOUGH 11	820920		.60	1.00	GRAVEL	RUBBLE			C07
SLOUGH 11	820920		.55	.70	GRAVEL	COBBLE	5.5		C08
SLOUGH 11	820920		1.80	.09	GRAVEL	COBBLE	3.1		C09
SLOUGH 21	820903	08	1.00	0.00	GRAVEL	RUBBLE	5.5	6.6	001
SLOUGH 21	820903	08	1.15	0.00	GRAVEL	RUBBLE	4.9	6.3	002

Table 4-B-20. (Continued).

LOCATION	DATE	TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	SUBSTRATE		INTRAGRAVEL TEMPERATURE (°C)	SURFACE WATER TEMPERATURE (°C)	REDD NUMBER
					PRIMARY	SECONDARY			
SLOUGH 21	820903	08	1.40	0.00	GRAVEL	RUBBLE	4.7	6.3	003
SLOUGH 21	820903	08	2.00	.43	BOULDER	COBBLE	4.5	5.1	004
SLOUGH 21	820903	07	1.30	0.00	RUBBLE	COBBLE	5.0	5.5	005
SLOUGH 21	820904	08	1.10	0.00	BOULDER	COBBLE	4.7	7.4	006
SLOUGH 21	820904	08	1.50	0.00	BOULDER	COBBLE	4.8	7.2	007
SLOUGH 21	820904	08	1.10	.17	RUBBLE	GRAVEL	4.7	7.5	009
SLOUGH 21	820904	07	.90	.23	RUBBLE	COBBLE	4.9	7.4	010
SLOUGH 21	820904	07	.70	0.00	RUBBLE	COBBLE	5.6	7.2	011
SLOUGH 21	820904	07	.50	0.00	COBBLE	GRAVEL	5.5	7.4	012
SLOUGH 21	820904	07	.60	0.00	RUBBLE	GRAVEL	5.5	7.2	013
SLOUGH 21	820904	07	1.20	.27	RUBBLE	GRAVEL	4.6	7.3	014
SLOUGH 21	820904	07	.45	.57	RUBBLE		4.7	7.3	015
SLOUGH 21	820904	04	1.10	0.00	GRAVEL	COBBLE	4.6	7.6	016
SLOUGH 21	820904	04	.70	.36	GRAVEL	RUBBLE	4.8	7.4	017
SLOUGH 21	820904	04	1.00	.58	RUBBLE	COBBLE	4.5	7.3	018
SLOUGH 21	820904	04	1.00	.53	GRAVEL	RUBBLE	4.7	7.3	019
SLOUGH 21	820904	04	1.80	.10	GRAVEL	RUBBLE	5.2	7.4	020
SLOUGH 21	820904	04	1.20	0.00	GRAVEL	COBBLE	4.6	7.3	022
SLOUGH 21	820904	04	2.60	.02	SAND	GRAVEL	4.3	7.3	021
SLOUGH 21	820904	03	1.15	.11	COBBLE	RUBBLE	4.2	7.5	023
SLOUGH 21	820904	03	.95	.16	COBBLE	GRAVEL	4.6	7.4	024
SLOUGH 21	820904	03	1.00	.19	COBBLE	GRAVEL	4.7	7.5	025
SLOUGH 21	820904	03	.60	.40	RUBBLE	GRAVEL	4.6	7.4	026
SLOUGH 21	820904	03	.70	.31	COBBLE	GRAVEL	4.9	7.3	027
SLOUGH 21	820904	03	.70	.46	COBBLE	GRAVEL	4.2	7.3	028
SLOUGH 21	820904	02	.50	1.11	COBBLE	GRAVEL	4.4	7.5	029

4-B-95

Table 4-B-20. (Continued).

LOCATION	DATE	TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	SUBSTRATE		INTRAGRAVEL TEMPERATURE (°C)	SURFACE WATER TEMPERATURE (°C)	REDD NUMBER
					PRIMARY	SECONDARY			
SLOUGH 21	820904	02	.65	.44	BOULDER	COBBLE	4.0	7.5	030
SLOUGH 21	820904	01	.40	.35	COBBLE	RUBBLE	4.4	7.5	031
SLOUGH 21	820904	01	.85	.40	RUBBLE	GRAVEL	4.4	7.6	032
SLOUGH 21	820904	01	1.10	.12	COBBLE	GRAVEL	4.7	7.6	033
SLOUGH 21	820904	01	.85	0.00	COBBLE	RUBBLE	4.8	8.7	034

Table 4-B-21. Hydraulic habitat variables collected at sockeye redds. (Transect number indicates the transect area in which the redd was located).

LOCATION	DATE	TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	SUBSTRATE		INTRAGRAVEL TEMPERATURE (°C)	SURFACE WATER TEMPERATURE (°C)	REDD NUMBER
					PRIMARY	SECONDARY			
SLOUGH 8A	820906		.50	.05	GRAVEL	SAND	7.4	7.6	S01
SLOUGH 11	820905		.85	0.00	COBBLE	GRAVEL	5.3	6.8	
SLOUGH 11	820920		2.80	.09	GRAVEL	RUBBLE	3.1		S01
SLOUGH 11	820920		2.80	.07	GRAVEL	RUBBLE	4.1		S02
SLOUGH 11	820920		2.50	.08	GRAVEL	RUBBLE	3.2		S03
SLOUGH 11	820920		2.50	0.00	GRAVEL		3.4		S04
SLOUGH 11	820920		2.60	.01	GRAVEL		3.1		S05
SLOUGH 11	820920		1.80	.06	GRAVEL	RUBBLE	3.2		S06
SLOUGH 11	820920		2.10	.08	GRAVEL	RUBBLE	3.2		S07
SLOUGH 11	820920		.75	.05	GRAVEL	RUBBLE	4.0		S08
SLOUGH 11	820920		1.00	.45	GRAVEL	COBBLE	4.2		S09
SLOUGH 11	820920		1.15	.40	GRAVEL	BOULDER	3.0		S10
SLOUGH 11	820920		1.15	.70	RUBBLE	COBBLE	3.1		S11
SLOUGH 11	820920		.50	.50	GRAVEL	SAND	3.0		S12
SLOUGH 11	820920		1.10	.80	GRAVEL	COBBLE	3.6		S13
SLOUGH 11	820920		.95	.06	RUBBLE	GRAVEL	3.5		S14
SLOUGH 11	820920		1.25	.10	RUBBLE	GRAVEL	3.1		S15
SLOUGH 11	820920		1.30	.30	RUBBLE	GRAVEL	3.2		S16
SLOUGH 11	820920		1.20	.04	GRAVEL	RUBBLE	3.2		S17
SLOUGH 11	820920		.85	.10	GRAVEL	COBBLE	3.2		S18
SLOUGH 11	820920		.90	.30	GRAVEL	SAND	3.4		S19
SLOUGH 11	820920		1.00	.30	RUBBLE	GRAVEL	3.4		S20
SLOUGH 11	820920		1.55	.19	GRAVEL	SAND	3.0		S21
SLOUGH 11	820920		1.45	.28	SAND	GRAVEL	3.2		S22

Table 4-B-21. (Continued).

LOCATION	DATE	TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	SUBSTRATE		INTRAGRAVEL TEMPERATURE (°C)	SURFACE WATER TEMPERATURE (°C)	REDD NUMBER
					PRIMARY	SECONDARY			
SLOUGH 21	820904	08	1.50	.27	COBBLE	GRAVEL	4.8	7.5	008

Table 4-B-22. Hydraulic habitat variables collected at pink redds. (Transect number indicates the transect area in which the redd was located).

LOCATION	DATE	TRANSECT	DEPTH (ft)	VELOCITY (ft/s)	SUBSTRATE		INTRAGRAVEL TEMPERATURE	SURFACE WATER TEMPERATURE	REDD NUMBER
					PRIMARY	SECONDARY	(°C)	(°C)	
SLOUGH 8A	820826	0C	.30	.80	GRAVEL	RUBBLE		13.0	P01
SLOUGH 9	820825	06	.80	.20	GRAVEL	RUBBLE	11.0	10.0	P02
SLOUGH 9	820825	06	.55	.30	GRAVEL	RUBBLE	11.1	10.0	P03

App.

Table 4-c-1 Thermograph data summary, summer surface water temperature (C),
Su Station, RM 25.8, Geocode S17N07W22DCD.

- MAY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	---	---	---	---	---	---	1.9	1.9	1.9	5.4	5.6	5.9
0601 - 1200	---	---	---	---	---	---	1.9	2.1	2.4	5.4	5.7	5.9
1201 - 1800	---	---	---	---	---	---	2.4	2.4	2.4	5.9	6.2	6.4
1801 - 2400	---	---	---	---	---	---	2.4	2.4	2.4	5.9	5.9	5.9
DAILY VALUE	---	---	---	---	---	---	1.9	2.2	2.4	5.4	5.9	6.4
0001 - 0600	---	---	---	---	---	---	2.4	2.4	2.4	5.4	5.6	5.9
0601 - 1200	---	---	---	---	---	---	2.4	2.4	2.4	5.4	5.4	5.4
1201 - 1800	---	---	---	---	---	---	2.9	2.9	2.9	5.4	5.4	5.4
1801 - 2400	---	---	---	---	---	---	2.9	2.9	2.9	4.9	5.2	5.4
DAILY VALUE	---	---	---	---	---	---	2.4	2.7	2.9	4.9	5.4	5.9
0001 - 0600	---	---	---	---	---	---	2.9	2.9	2.9	4.9	4.9	4.9
0601 - 1200	---	---	---	---	---	---	2.9	3.2	3.4	4.9	5.4	5.9
1201 - 1800	---	---	---	---	---	---	3.4	3.4	3.4	5.9	5.9	5.9
1801 - 2400	---	---	---	---	---	---	3.4	3.4	3.4	5.4	5.6	5.9
DAILY VALUE	---	---	---	---	---	---	2.9	3.2	3.4	4.9	5.4	5.9
0001 - 0600	---	---	---	---	---	---	3.4	3.4	3.4	5.4	5.4	5.4
0601 - 1200	---	---	---	---	---	---	3.4	3.4	3.4	5.9	6.1	6.4
1201 - 1800	---	---	---	---	---	---	3.4	3.4	3.4	6.9	6.9	6.9
1801 - 2400	---	---	---	---	---	---	3.4	3.4	3.4	6.9	6.9	6.9
DAILY VALUE	---	---	---	---	---	---	3.4	3.4	3.4	5.4	6.3	6.9
0001 - 0600	---	---	---	---	---	---	2.9	3.1	3.4	6.4	6.4	6.4
0601 - 1200	---	---	---	---	---	---	3.4	3.7	3.9	6.4	6.4	6.4
1201 - 1800	---	---	---	---	---	---	4.4	4.4	4.4	6.4	6.4	6.4
1801 - 2400	---	---	---	---	---	---	4.4	4.4	4.4	5.9	6.2	6.4
DAILY VALUE	---	---	---	---	---	---	2.9	3.9	4.4	5.9	6.4	6.4
0001 - 0600	---	---	---	---	---	---	3.9	3.9	3.9	5.9	5.9	5.9
0601 - 1200	---	---	---	---	---	---	3.9	4.2	4.4	6.4	6.7	6.9
1201 - 1800	---	---	---	---	---	---	4.9	4.9	4.9	7.4	7.7	7.9
1801 - 2400	---	---	---	---	---	---	4.4	4.6	4.9	7.4	7.7	7.9
DAILY VALUE	---	---	---	---	---	---	3.9	4.4	4.9	5.9	7.0	7.9
0001 - 0600	---	---	---	---	---	---	3.9	3.9	3.9	7.4	7.4	7.4
0601 - 1200	---	---	---	---	---	---	4.4	4.7	4.9	7.9	8.4	8.9
1201 - 1800	---	---	---	---	---	---	5.4	5.4	5.4	9.4	9.4	9.4
1801 - 2400	---	---	---	---	---	---	5.4	5.4	5.4	9.4	9.4	9.4
DAILY VALUE	---	---	---	---	---	---	3.9	4.9	5.4	7.4	8.6	9.4
0001 - 0600	---	---	---	---	---	---	5.4	5.4	5.4	MONTHLY VALUE		
0601 - 1200	---	---	---	---	---	---	5.9	6.2	6.9			
1201 - 1800	---	---	---	2.9	2.9	2.9	6.4	6.7	6.9	1.9 --- 9.4		
1801 - 2400	---	---	---	1.9	2.2	2.4	5.9	6.2	6.4			
DAILY VALUE	---	---	---	1.9	---	2.9	5.4	6.1	6.9			

4-C-1

Appendix Table 4-C-1 Cont.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.9	8.9	8.9	7.4	7.7	7.9	---	---	---	---	---	---
0601 - 1200	8.9	9.2	9.4	7.4	7.7	7.9	---	---	---	---	---	---
1201 - 1800	9.9	9.9	9.9	7.9	7.9	7.9	---	---	---	---	---	---
1801 - 2400	9.4	9.7	9.9	8.4	8.4	8.4	---	---	---	---	---	---
DAILY VALUE	8.9	9.4	9.9	7.4	7.9	8.4	---	---	---	---	---	---
0001 - 0600	8.9	8.9	8.9	7.9	7.9	7.9	---	---	---	---	---	---
0601 - 1200	8.9	9.1	9.4	7.9	7.9	7.9	---	---	---	---	---	---
1201 - 1800	9.4	9.4	9.4	7.9	7.9	7.9	---	---	---	---	---	---
1801 - 2400	7.9	8.6	8.9	---	---	---	---	---	---	---	---	---
DAILY VALUE	7.9	9.0	9.4	7.9	---	7.9	---	---	---	---	---	---
0001 - 0600	6.9	7.2	7.4	---	---	---	---	---	---	---	---	---
0601 - 1200	6.9	7.1	7.4	---	---	---	---	---	---	---	---	---
1201 - 1800	7.4	7.7	7.9	---	---	---	---	---	---	---	---	---
1801 - 2400	7.9	7.9	7.9	---	---	---	---	---	---	---	---	---
DAILY VALUE	6.9	7.5	7.9	---	---	---	---	---	---	---	---	---
0001 - 0600	7.4	7.4	7.4	---	---	---	---	---	---	---	---	---
0601 - 1200	7.4	7.6	7.9	---	---	---	---	---	---	---	---	---
1201 - 1800	7.9	7.9	7.9	---	---	---	---	---	---	---	---	---
1801 - 2400	7.9	7.9	7.9	---	---	---	---	---	---	---	---	---
DAILY VALUE	7.4	7.7	7.9	---	---	---	---	---	---	---	---	---
0001 - 0600	7.9	7.9	7.9	---	---	---	---	---	---	---	---	---
0601 - 1200	7.4	7.4	7.4	---	---	---	---	---	---	---	---	---
1201 - 1800	7.9	7.9	7.9	---	---	---	---	---	---	---	---	---
1801 - 2400	7.9	7.9	7.9	---	---	---	---	---	---	---	---	---
DAILY VALUE	7.4	7.8	7.9	---	---	---	---	---	---	---	---	---
0001 - 0600	7.4	7.4	7.4	---	---	---	---	---	---	---	---	---
0601 - 1200	7.4	7.4	7.4	---	---	---	---	---	---	---	---	---
1201 - 1800	7.4	7.4	7.4	---	---	---	---	---	---	---	---	---
1801 - 2400	6.9	7.2	7.4	---	---	---	---	---	---	---	---	---
DAILY VALUE	6.9	7.4	7.4	---	---	---	---	---	---	---	---	---
0001 - 0600	6.9	6.9	6.9	---	---	---	---	---	---	---	---	---
0601 - 1200	6.9	6.9	6.9	---	---	---	---	---	---	---	---	---
1201 - 1800	6.9	7.1	7.4	---	---	---	---	---	---	---	---	---
1801 - 2400	6.9	7.2	7.4	---	---	---	---	---	---	---	---	---
DAILY VALUE	6.9	7.0	7.4	---	---	---	---	---	---	---	---	---
0001 - 0600	6.9	6.9	6.9	---	---	---	---	---	---	MONTHLY VALUE		
0601 - 1200	6.9	6.9	6.9	---	---	---	---	---	---			
1201 - 1800	7.4	7.7	7.9	---	---	---	---	---	---			
1801 - 2400	7.9	7.9	7.9	---	---	---	---	---	---	6.9 --- 9.9		
DAILY VALUE	6.9	7.4	7.9	---	---	---	---	---	---			

App: 1. Table 4-C-2

Thermograph data summary, summer surface water temperature (C),
Yentna Fishwheel, RM 30.1, TRM 4.0, Geocode
S18N07W34DBC.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	7.5	7.5	7.5	7.0	7.0	7.0	11.5	11.7	12.0
0601 - 1200	----	----	----	7.5	7.5	7.5	7.0	7.3	7.5	11.5	11.5	11.5
1201 - 1800	----	----	----	7.5	7.8	8.0	8.0	8.2	8.5	12.0	12.2	12.5
1801 - 2400	----	----	----	8.0	8.0	8.0	8.5	8.5	8.5	12.5	12.8	13.0
DAILY VALUE	----	----	----	7.5	7.7	8.0	7.0	7.7	8.5	11.5	12.0	13.0
0001 - 0600	----	----	----	8.0	8.0	8.0	8.5	8.5	8.5	12.0	12.2	12.5
0601 - 1200	----	----	----	7.5	7.5	7.5	8.5	8.7	9.0	11.5	11.7	12.0
1201 - 1800	----	----	----	7.5	7.5	7.5	9.0	9.0	9.0	12.0	12.0	12.0
1801 - 2400	----	----	----	7.0	7.2	7.5	9.0	9.0	9.0	12.0	12.3	12.5
DAILY VALUE	----	----	----	7.0	7.5	8.0	8.5	8.8	9.0	11.5	12.0	12.5
0001 - 0600	----	----	----	6.5	6.8	7.0	9.0	9.0	9.0	11.5	11.8	12.0
0601 - 1200	----	----	----	6.5	6.7	7.0	9.0	9.0	9.0	11.0	11.0	11.0
1201 - 1800	----	----	----	7.0	7.2	7.5	9.5	9.8	10.0	11.0	11.2	11.5
1801 - 2400	----	----	----	7.5	7.5	7.5	10.5	10.5	10.5	11.0	11.3	11.5
DAILY VALUE	----	----	----	6.5	7.0	7.5	9.0	9.6	10.5	11.0	11.3	12.0
0001 - 0600	----	----	----	7.0	7.2	7.5	10.5	10.5	10.5	10.0	10.5	11.0
0601 - 1200	----	----	----	7.0	7.0	7.0	10.5	10.5	10.5	10.0	10.0	10.0
1201 - 1800	----	----	----	7.0	7.5	8.0	10.0	10.0	10.0	10.0	10.3	10.5
1801 - 2400	----	----	----	8.0	8.0	8.0	9.5	9.7	10.0	10.5	10.5	10.5
DAILY VALUE	----	----	----	7.0	7.4	8.0	9.5	10.2	10.5	10.0	10.3	11.0
0001 - 0600	----	----	----	7.5	7.8	8.0	9.0	9.2	9.5	9.5	9.7	10.0
0601 - 1200	----	----	----	7.5	7.7	8.0	8.5	8.5	8.5	9.0	9.2	9.5
1201 - 1800	----	----	----	8.0	8.0	8.0	8.5	8.5	8.5	9.5	9.8	10.0
1801 - 2400	----	----	----	8.0	8.3	8.5	8.0	8.0	8.0	9.5	9.7	10.0
DAILY VALUE	----	----	----	7.5	8.0	8.5	8.0	8.5	9.5	9.0	9.6	10.0
0001 - 0600	----	----	----	8.0	8.0	8.0	7.5	7.8	8.0	8.5	8.8	9.0
0601 - 1200	----	----	----	8.0	8.0	8.0	7.5	7.5	7.5	8.5	8.5	8.5
1201 - 1800	----	----	----	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.7	9.0
1801 - 2400	----	----	----	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.7	9.0
DAILY VALUE	----	----	----	8.0	8.0	8.0	7.5	7.8	8.0	8.5	8.7	9.0
0001 - 0600	----	----	----	8.0	8.0	8.0	8.0	8.0	8.0	-----	-----	-----
0601 - 1200	----	----	----	8.0	8.0	8.0	8.0	8.0	8.0	-----	-----	-----
1201 - 1800	----	----	----	8.0	8.0	8.0	8.5	8.7	9.0	-----	-----	-----
1801 - 2400	----	----	----	8.0	8.2	8.5	9.0	9.0	9.0	-----	-----	-----
DAILY VALUE	----	----	----	8.0	8.0	8.5	8.0	8.4	9.0	-----	-----	-----
0001 - 0600	----	----	----	8.0	8.2	8.5	9.0	9.0	9.0	MONTHLY VALUE		
0601 - 1200	----	----	----	8.0	8.0	8.0	9.5	9.7	10.0			
1201 - 1800	7.5	-----	7.5	8.0	8.0	8.0	11.0	11.3	11.5			
1801 - 2400	7.5	7.5	7.5	7.5	7.7	8.0	12.0	12.0	12.0			
DAILY VALUE	7.5	-----	7.5	7.5	8.0	8.5	9.0	10.5	12.0	6.5	8.9	13.0

Appendix Table 4-C-2 Cont.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	7.5	7.8	8.0	10.5	10.8	11.0	7.0	7.3	7.5	7.5	7.5	7.5
0601 - 1200	7.0	7.0	7.0	10.0	10.2	10.5	7.0	7.0	7.0	7.5	7.5	7.5
1201 - 1800	7.5	7.5	7.5	10.0	10.0	10.0	7.5	7.5	7.5	7.5	7.8	8.0
1801 - 2400	8.0	8.0	8.0	10.0	10.0	10.0	8.0	8.0	8.0	8.0	8.0	8.0
DAILY VALUE	7.0	7.6	8.0	10.0	10.2	11.0	7.0	7.5	8.0	7.5	7.7	8.0
0001 - 0600	7.5	7.7	8.0	9.5	9.7	10.0	8.0	8.0	8.0	7.5	7.8	8.0
0601 - 1200	7.0	7.0	7.0	9.0	9.0	9.0	8.0	8.0	8.0	7.5	7.7	8.0
1201 - 1800	7.5	7.5	7.5	9.0	9.0	9.0	8.5	8.7	9.0	8.0	8.3	8.5
1801 - 2400	7.5	7.5	7.5	9.5	9.5	9.5	9.0	9.0	9.0	8.5	8.7	9.0
DAILY VALUE	7.0	7.4	8.0	9.0	9.3	10.0	8.0	8.4	9.0	7.5	8.1	9.0
0001 - 0600	7.5	7.5	7.5	9.0	9.3	9.5	8.5	8.8	9.0	8.0	8.2	8.5
0601 - 1200	7.0	7.2	7.5	9.0	9.0	9.0	8.0	8.0	8.0	7.5	7.5	7.5
1201 - 1800	7.5	8.0	8.5	9.0	9.0	9.0	8.5	8.7	9.0	7.5	7.8	8.0
1801 - 2400	8.5	8.5	8.5	9.0	9.0	9.0	9.5	9.5	9.5	8.0	8.0	8.0
DAILY VALUE	7.0	7.8	8.5	9.0	9.1	9.5	8.0	8.7	9.5	7.5	7.9	8.5
0001 - 0600	8.5	8.5	8.5	8.5	8.8	9.0	9.5	9.5	9.5	7.5	7.5	7.5
0601 - 1200	8.5	8.5	8.5	8.5	8.5	8.5	9.5	9.7	10.0	7.5	7.5	7.5
1201 - 1800	9.0	9.2	9.5	8.5	8.5	8.5	10.5	11.0	11.5	8.0	8.0	8.0
1801 - 2400	9.5	9.5	9.5	8.5	8.5	8.5	11.5	11.8	12.0	8.0	8.3	8.5
DAILY VALUE	8.5	8.9	9.5	8.5	8.6	9.0	9.5	10.5	12.0	7.5	7.8	8.5
0001 - 0600	9.5	9.5	9.5	8.0	8.2	8.5	11.0	11.3	11.5	8.0	8.3	8.5
0601 - 1200	9.0	9.0	9.0	8.0	8.0	8.0	10.5	10.5	10.5	8.0	8.0	8.0
1201 - 1800	9.0	9.0	9.0	8.5	8.7	9.0	10.5	10.5	10.5	8.0	8.0	8.0
1801 - 2400	9.0	9.3	9.5	9.0	9.0	9.0	10.5	10.5	10.5	8.0	8.0	8.0
DAILY VALUE	9.0	9.2	9.5	8.0	8.5	9.0	10.5	10.7	11.5	8.0	8.1	8.5
0001 - 0600	9.0	9.3	9.5	8.5	8.7	9.0	9.5	10.0	10.5	7.5	7.7	8.0
0601 - 1200	9.0	9.0	9.0	8.5	8.5	8.5	9.0	9.0	9.0	7.5	7.5	7.5
1201 - 1800	9.5	9.5	9.5	8.5	8.8	9.0	8.5	8.8	9.0	7.5	7.8	8.0
1801 - 2400	10.0	10.0	10.0	9.5	9.5	9.5	8.0	8.3	8.5	8.0	8.0	8.0
DAILY VALUE	9.0	9.5	10.0	8.5	8.9	9.5	8.0	9.0	10.5	7.5	7.7	8.0
0001 - 0600	9.5	9.8	10.0	9.5	9.5	9.5	7.5	7.7	8.0	8.0	8.0	8.0
0601 - 1200	9.5	9.5	9.5	9.0	9.0	9.0	7.0	7.2	7.5	8.0	8.0	8.0
1201 - 1800	9.5	9.5	9.5	9.0	9.0	9.0	7.5	7.5	7.5	8.5	8.8	9.0
1801 - 2400	9.5	9.5	9.5	9.5	9.5	9.5	7.5	7.5	7.5	9.5	9.5	9.5
DAILY VALUE	9.5	9.6	10.0	9.0	9.2	9.5	7.0	7.5	8.0	8.0	8.6	9.5
0001 - 0600	9.5	9.5	9.5	8.5	8.8	9.0	7.5	7.5	7.5	MONTHLY VALUE		
0601 - 1200	9.5	9.5	9.5	8.0	8.2	8.5	7.5	7.5	7.5			
1201 - 1800	9.5	10.0	10.5	8.0	8.0	8.0	7.5	7.7	8.0	7.0 8.6 12.0		
1801 - 2400	10.5	10.8	11.0	8.0	8.0	8.0	8.0	8.0	8.0			
DAILY VALUE	9.5	10.0	11.0	8.0	8.2	9.0	7.5	7.7	8.0			

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App. 1. Table 4-c-2 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.5	9.0	9.5	9.0	9.0	9.0	8.5	8.7	9.0	8.5	8.5	8.5
0601 - 1200	8.5	8.7	9.0	9.0	9.0	9.0	8.0	8.0	8.0	8.0	8.3	8.5
1201 - 1800	9.5	9.7	10.0	9.0	9.2	9.5	8.0	8.2	8.5	8.0	8.0	8.0
1801 - 2400	10.0	10.0	10.0	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	8.5
DAILY VALUE	8.5	9.3	10.0	9.0	9.2	9.5	8.0	8.3	9.0	8.0	8.3	8.5
0001 - 0600	9.0	9.5	10.0	9.0	9.2	9.5	8.0	8.3	8.5	8.5	8.5	8.5
0601 - 1200	9.0	9.0	9.0	8.0	8.3	8.5	7.5	7.7	8.0	8.0	8.2	8.5
1201 - 1800	9.5	9.7	10.0	8.0	8.0	8.0	7.5	7.8	8.0	8.5	8.7	9.0
1801 - 2400	10.0	10.0	10.0	7.5	7.7	8.0	8.0	8.0	8.0	9.0	9.0	9.0
DAILY VALUE	9.0	9.5	10.0	7.5	8.3	9.5	7.5	8.0	8.5	8.0	8.6	9.0
0001 - 0600	9.5	9.7	10.0	7.0	7.2	7.5	8.0	8.0	8.0	8.0	8.3	8.5
0601 - 1200	9.0	9.0	9.0	7.0	7.0	7.0	8.0	8.0	8.0	8.0	8.0	8.0
1201 - 1800	9.5	9.7	10.0	7.0	7.3	7.5	8.0	8.2	8.5	8.5	8.5	8.5
1801 - 2400	10.0	10.0	10.0	7.5	7.5	7.5	8.5	8.7	9.0	8.5	8.8	9.0
DAILY VALUE	9.0	9.6	10.0	7.0	7.2	7.5	8.0	8.2	9.0	8.0	8.4	9.0
0001 - 0600	9.5	9.7	10.0	7.5	7.5	7.5	9.0	9.0	9.0	8.5	8.8	9.0
0601 - 1200	9.0	9.0	9.0	7.5	7.7	8.0	8.5	8.5	8.5	8.5	8.5	8.5
1201 - 1800	9.0	9.3	9.5	8.5	9.0	9.5	9.0	9.0	9.0	8.5	8.5	8.5
1801 - 2400	10.0	10.0	10.0	9.0	9.2	9.5	9.0	9.0	9.0	8.5	8.5	8.5
DAILY VALUE	9.0	9.5	10.0	7.5	8.3	9.5	8.5	8.9	9.0	8.5	8.6	9.0
0001 - 0600	9.5	9.8	10.0	9.0	9.3	9.5	9.0	9.0	9.0	8.0	8.3	8.5
0601 - 1200	9.0	9.2	9.5	9.0	9.0	9.0	8.5	8.5	8.5	7.5	7.7	8.0
1201 - 1800	9.5	9.5	9.5	9.5	9.7	10.0	8.5	8.5	8.5	7.5	7.5	7.5
1801 - 2400	10.0	10.0	10.0	10.0	10.2	10.5	8.5	8.5	8.5	7.5	7.5	7.5
DAILY VALUE	9.0	9.6	10.0	9.0	9.5	10.5	8.5	8.6	9.0	7.5	7.7	8.5
0001 - 0600	9.5	9.8	10.0	10.0	10.3	10.5	8.5	8.5	8.5	7.5	7.5	7.5
0601 - 1200	9.5	9.5	9.5	10.0	10.0	10.0	8.5	8.5	8.5	7.5	7.5	7.5
1201 - 1800	9.5	9.8	10.5	10.0	10.0	10.0	8.5	8.5	8.5	7.5	7.5	7.5
1801 - 2400	10.5	10.7	11.0	10.0	10.0	10.0	8.5	8.5	8.5	7.5	7.5	7.5
DAILY VALUE	9.5	10.0	11.0	10.0	10.1	10.5	8.5	8.5	8.5	7.5	7.5	7.5
0001 - 0600	10.5	10.8	11.0	9.5	9.8	10.0	8.5	8.5	8.5	7.5	7.5	7.5
0601 - 1200	9.5	9.8	10.0	8.5	8.8	9.0	8.5	8.5	8.5	7.5	7.5	7.5
1201 - 1800	9.5	9.5	9.5	8.0	8.3	8.5	8.5	8.5	8.5	7.5	7.5	7.5
1801 - 2400	9.5	9.5	9.5	8.0	8.0	8.0	8.5	8.5	8.5	7.5	7.5	7.5
DAILY VALUE	9.5	9.9	11.0	8.0	8.7	10.0	8.5	8.5	8.5	7.5	7.5	7.5
0001 - 0600	9.0	9.3	9.5	8.0	8.0	8.0	8.5	8.5	8.5	MONTHLY VALUE		
0601 - 1200	8.5	8.5	8.5	8.0	8.0	8.0	8.5	8.5	8.5			
1201 - 1800	8.5	8.5	8.5	8.0	8.3	8.5	8.5	8.5	8.5			
1801 - 2400	8.5	8.8	9.0	8.5	8.8	9.0	8.5	8.5	8.5			
DAILY VALUE	8.5	8.8	9.5	8.0	8.3	9.0	8.5	8.5	8.5	7.0	8.7	11.0

4-c-5

Appendix A Table 4-c-6 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	7.0	7.2	7.5	7.5	7.5	7.5	7.0	7.0	7.0	4.0	4.0	4.0
0601 - 1200	7.0	7.2	7.5	7.5	7.5	7.5	6.5	6.5	6.5	3.5	3.7	4.0
1201 - 1800	7.5	7.7	8.0	7.5	7.5	7.5	6.5	6.5	6.5	3.5	3.8	4.0
1801 - 2400	8.0	8.0	8.0	7.5	7.5	7.5	6.0	6.0	6.0	4.0	4.0	4.0
DAILY VALUE	7.0	7.5	8.0	7.5	7.5	7.5	6.0	6.5	7.0	3.5	3.9	4.0
0001 - 0600	7.5	7.5	7.5	7.0	7.2	7.5	5.5	5.7	6.0	4.0	4.0	4.0
0601 - 1200	7.5	7.5	7.5	7.0	7.0	7.0	5.5	5.5	5.5	4.0	4.2	4.5
1201 - 1800	8.0	8.0	8.0	7.0	7.0	7.0	5.5	-----	5.5	4.5	4.7	5.0
1801 - 2400	8.0	8.0	8.0	7.0	7.0	7.0	5.5	5.5	5.5	5.0	-----	5.0
DAILY VALUE	7.5	7.7	8.0	7.0	7.0	7.5	5.5	5.5	6.0	4.0	4.4	5.0
0001 - 0600	7.5	7.5	7.5	7.0	7.0	7.0	5.5	5.5	5.5	4.5	4.5	4.5
0601 - 1200	7.0	7.2	7.5	7.0	7.0	7.0	5.5	5.5	5.5	4.5	4.8	5.0
1201 - 1800	7.0	7.3	7.5	7.0	7.0	7.0	5.5	5.7	6.0	5.0	5.0	5.0
1801 - 2400	7.0	7.0	7.0	7.0	7.0	7.0	6.0	6.0	6.0	5.0	-----	5.0
DAILY VALUE	7.0	7.2	7.5	7.0	7.0	7.0	5.5	5.7	6.0	4.5	4.8	5.0
0001 - 0600	7.0	7.0	7.0	6.5	6.5	6.5	5.5	5.5	5.5	-----	-----	-----
0601 - 1200	7.0	7.0	7.0	6.0	6.2	6.5	6.0	6.0	6.0	-----	-----	-----
1201 - 1800	7.5	7.5	7.5	6.0	6.0	6.0	6.0	6.0	6.0	-----	-----	-----
1801 - 2400	7.5	7.5	7.5	6.0	6.0	6.0	6.0	6.0	6.0	-----	-----	-----
DAILY VALUE	7.0	7.2	7.5	6.0	6.2	6.5	5.5	5.9	6.0	-----	-----	-----
0001 - 0600	7.5	7.5	7.5	5.5	5.8	6.0	6.0	6.0	6.0	-----	-----	-----
0601 - 1200	7.0	7.2	7.5	5.5	5.5	5.5	6.0	6.0	6.0	-----	-----	-----
1201 - 1800	7.0	7.3	7.5	5.5	5.5	5.5	6.0	6.0	6.0	-----	-----	-----
1801 - 2400	7.0	7.0	7.0	5.5	5.5	5.5	6.0	6.0	6.0	-----	-----	-----
DAILY VALUE	7.0	7.2	7.5	5.5	5.6	6.0	6.0	6.0	6.0	-----	-----	-----
0001 - 0600	7.0	7.0	7.0	5.5	5.5	5.5	6.0	6.0	6.0	-----	-----	-----
0601 - 1200	7.0	7.0	7.0	5.5	5.7	6.0	6.0	6.0	6.0	-----	-----	-----
1201 - 1800	7.0	7.0	7.0	6.0	6.0	6.0	6.5	6.5	6.5	-----	-----	-----
1801 - 2400	7.0	7.0	7.0	6.0	6.2	6.5	6.0	6.0	6.0	-----	-----	-----
DAILY VALUE	7.0	7.0	7.0	5.5	5.8	6.5	6.0	6.1	6.5	-----	-----	-----
0001 - 0600	7.0	7.0	7.0	6.5	6.5	6.5	5.5	5.7	6.0	-----	-----	-----
0601 - 1200	7.0	7.2	7.5	6.5	6.5	6.5	5.5	5.5	5.5	-----	-----	-----
1201 - 1800	7.5	7.5	7.5	6.5	6.8	7.0	5.5	5.5	5.5	-----	-----	-----
1801 - 2400	7.5	7.5	7.5	6.5	6.5	6.5	5.0	5.3	5.5	-----	-----	-----
DAILY VALUE	7.0	7.3	7.5	6.5	6.6	7.0	5.0	5.5	6.0	-----	-----	-----
0001 - 0600	7.5	7.5	7.5	6.5	6.5	6.5	4.5	4.7	5.0	MONTHLY VALUE		
0601 - 1200	7.5	7.5	7.5	6.5	6.5	6.5	4.0	4.0	4.0			
1201 - 1800	7.5	7.8	8.0	7.0	7.0	7.0	4.5	4.5	4.5			
1801 - 2400	8.0	8.0	8.0	7.0	7.0	7.0	4.5	4.5	4.5			
DAILY VALUE	7.5	7.7	8.0	6.5	6.7	7.0	4.0	4.4	5.0	3.5	6.3	8.0

4-c-6

Table 4-C-6 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	.5	.5	.5	----	----	----	----	----	----
0601 - 1200	----	----	----	.5	.7	1.0	----	----	----	----	----	----
1201 - 1800	----	----	----	1.0	1.0	1.0	----	----	----	----	----	----
1801 - 2400	----	----	----	1.0	1.0	1.0	----	----	----	----	----	----
DAILY VALUE	----	----	----	.5	.8	1.0	----	----	----	----	----	----
0001 - 0600	----	----	----	1.0	1.0	1.0	----	----	----	----	----	----
0601 - 1200	----	----	----	1.0	1.0	1.0	----	----	----	----	----	----
1201 - 1800	----	----	----	1.0	1.0	1.0	----	----	----	----	----	----
1801 - 2400	----	----	----	1.0	1.0	1.0	----	----	----	----	----	----
DAILY VALUE	----	----	----	1.0	1.0	1.0	----	----	----	----	----	----
0001 - 0600	----	----	----	.5	.7	1.0	----	----	----	----	----	----
0601 - 1200	----	----	----	0.0	.2	.5	----	----	----	----	----	----
1201 - 1800	----	----	----	.5	----	.5	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	0.0	----	1.0	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	4.0	----	4.0	----	----	----	----	----	----	----	----	----
1801 - 2400	3.5	3.7	4.0	----	----	----	----	----	----	----	----	----
DAILY VALUE	3.5	----	4.0	----	----	----	----	----	----	----	----	----
0001 - 0600	3.0	3.0	3.0	----	----	----	----	----	----	----	----	----
0601 - 1200	2.5	2.5	2.5	----	----	----	----	----	----	----	----	----
1201 - 1800	2.5	2.5	2.5	----	----	----	----	----	----	----	----	----
1801 - 2400	1.5	1.8	2.0	----	----	----	----	----	----	----	----	----
DAILY VALUE	1.5	2.5	3.0	----	----	----	----	----	----	----	----	----
0001 - 0600	1.0	1.3	1.5	----	----	----	----	----	----	----	----	----
0601 - 1200	1.0	1.0	1.0	----	----	----	----	----	----	----	----	----
1201 - 1800	1.0	1.0	1.0	----	----	----	----	----	----	----	----	----
1801 - 2400	1.0	1.0	1.0	----	----	----	----	----	----	----	----	----
DAILY VALUE	1.0	1.1	1.5	----	----	----	----	----	----	----	----	----
0001 - 0600	1.0	1.0	1.0	----	----	----	----	----	----	----	----	----
0601 - 1200	.5	.5	.5	----	----	----	----	----	----	----	----	----
1201 - 1800	.5	.5	.5	----	----	----	----	----	----	----	----	----
1801 - 2400	.5	.5	.5	----	----	----	----	----	----	----	----	----
DAILY VALUE	.5	.6	1.0	----	----	----	----	----	----	----	----	----
0001 - 0600	.5	.5	.5	----	----	----	----	----	----	MONTHLY VALUE		
0601 - 1200	.5	.5	.5	----	----	----	----	----	----			
1201 - 1800	.5	.5	.5	----	----	----	----	----	----			
1801 - 2400	.5	.5	.5	----	----	----	----	----	----			
DAILY VALUE	.5	.5	.5	----	----	----	----	----	----	0.0 ---- 4.0		

Appendix Table 4-C-3

Thermograph data summary, summer surface water temperature (C),
Susitna River Upstream of Yentna River, RM 29.5, Geocode
S17N06W07CAD.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	7.5	7.7	8.0	----	----	----	12.0	12.2	12.5
0601 - 1200	----	----	----	7.5	7.5	7.5	----	----	----	12.0	12.0	12.0
1201 - 1800	----	----	----	8.0	8.0	8.0	----	----	----	12.5	13.0	13.5
1801 - 2400	----	----	----	8.5	8.5	8.5	----	----	----	13.5	13.5	13.5
DAILY VALUE	----	----	----	7.5	7.9	8.5	----	----	----	12.0	12.7	13.5
0001 - 0600	----	----	----	8.0	8.0	8.0	----	----	----	12.5	12.7	13.0
0601 - 1200	----	----	----	8.0	8.0	8.0	----	----	----	12.5	12.5	12.5
1201 - 1800	----	----	----	8.0	8.0	8.0	10.0	10.0	10.0	13.0	13.2	13.5
1801 - 2400	----	----	----	8.0	8.0	8.0	9.5	9.8	10.0	13.0	13.3	13.5
DAILY VALUE	----	----	----	8.0	8.0	8.0	9.5	----	10.0	12.5	12.9	13.5
0001 - 0600	----	----	----	7.5	7.5	7.5	9.5	9.5	9.5	12.0	12.5	13.0
0601 - 1200	----	----	----	7.5	7.5	7.5	9.0	9.3	9.5	12.0	12.0	12.0
1201 - 1800	----	----	----	8.0	8.0	8.0	10.0	10.2	10.5	12.0	12.0	12.0
1801 - 2400	----	----	----	8.0	8.0	8.0	10.5	10.5	10.5	12.0	12.0	12.0
DAILY VALUE	----	----	----	7.5	7.8	8.0	9.0	9.9	10.5	12.0	12.1	13.0
0001 - 0600	----	----	----	7.5	7.7	8.0	10.0	10.0	10.0	11.0	11.3	11.5
0601 - 1200	----	----	----	7.5	7.5	7.5	9.5	9.8	10.0	11.0	11.0	11.0
1201 - 1800	----	----	----	8.0	8.3	8.5	9.5	9.5	9.5	11.0	11.3	11.5
1801 - 2400	----	----	----	7.5	8.2	8.5	9.0	9.3	9.5	11.5	11.8	12.0
DAILY VALUE	----	----	----	7.5	7.9	8.5	9.0	9.7	10.0	11.0	11.4	12.0
0001 - 0600	----	----	----	7.5	7.5	7.5	8.0	8.5	9.0	11.0	11.2	11.5
0601 - 1200	----	----	----	7.5	7.5	7.5	8.0	8.0	8.0	10.5	10.7	11.0
1201 - 1800	----	----	----	7.5	8.0	8.5	8.0	8.3	8.5	11.0	11.3	11.5
1801 - 2400	----	----	----	8.5	8.5	8.5	8.5	8.5	8.5	11.5	11.5	11.5
DAILY VALUE	----	----	----	7.5	7.9	8.5	8.0	8.3	9.0	10.5	11.2	11.5
0001 - 0600	----	----	----	8.0	8.3	8.5	8.5	8.5	8.5	10.5	11.0	11.5
0601 - 1200	----	----	----	8.0	8.2	8.5	8.5	8.5	8.5	10.5	10.5	10.5
1201 - 1800	----	----	----	----	----	----	8.5	9.0	9.5	10.5	10.8	11.5
1801 - 2400	----	----	----	----	----	----	9.5	9.5	9.5	10.5	11.0	11.5
DAILY VALUE	----	----	----	8.0	----	8.5	8.5	8.9	9.5	10.5	10.8	11.5
0001 - 0600	----	----	----	----	----	----	9.5	9.5	9.5	----	----	----
0601 - 1200	----	----	----	----	----	----	9.5	9.7	10.0	----	----	----
1201 - 1800	----	----	----	----	----	----	10.5	10.8	11.0	----	----	----
1801 - 2400	----	----	----	----	----	----	11.5	11.5	11.5	----	----	----
DAILY VALUE	----	----	----	----	----	----	9.5	10.4	11.5	----	----	----
0001 - 0600	----	----	----	----	----	----	10.5	10.8	11.0	MONTHLY VALUE		
0601 - 1200	----	----	----	----	----	----	10.5	10.7	11.0			
1201 - 1800	8.0	----	8.0	----	----	----	11.5	12.0	12.5	7.5 ---- 13.5		
1801 - 2400	8.0	8.0	8.0	----	----	----	12.5	12.8	13.0			
DAILY VALUE	8.0	----	8.0	----	----	----	10.5	11.6	13.0			

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	10.0	10.2	10.5	11.5	11.8	12.0	9.5	9.5	9.5	9.5	9.5	9.5
0601 - 1200	10.0	10.0	10.0	11.5	11.8	12.0	9.5	9.7	10.0	9.0	9.2	9.5
1201 - 1800	10.5	10.5	10.5	12.0	12.0	12.0	10.5	10.5	10.5	9.5	9.7	10.0
1801 - 2400	10.0	10.3	10.5	12.0	12.0	12.0	10.5	10.5	10.5	9.5	9.8	10.0
DAILY VALUE	10.0	10.2	10.5	11.5	11.9	12.0	9.5	10.0	10.5	9.0	9.5	10.0
0001 - 0600	9.5	9.8	10.0	11.5	11.5	11.5	10.0	10.2	10.5	9.0	9.3	9.5
0601 - 1200	9.5	9.7	10.0	12.0	12.0	12.0	10.0	10.3	10.5	9.0	9.2	9.5
1201 - 1800	10.0	10.3	10.5	12.0	12.0	12.0	10.5	10.8	11.0	9.5	9.8	10.0
1801 - 2400	10.5	10.5	10.5	11.5	11.8	12.0	11.0	11.2	11.5	9.5	9.8	10.0
DAILY VALUE	9.5	10.1	10.5	11.5	11.8	12.0	10.0	10.6	11.5	9.0	9.5	10.0
0001 - 0600	9.5	10.0	10.5	10.5	11.0	11.5	10.0	10.3	10.5	9.5	9.5	9.5
0601 - 1200	9.5	10.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	9.5	9.5	9.5
1201 - 1800	10.5	10.8	11.0	11.0	11.3	11.5	11.0	11.3	11.5	10.0	10.2	10.5
1801 - 2400	11.0	11.3	11.5	11.5	11.5	11.5	11.5	11.8	12.0	10.5	10.5	10.5
DAILY VALUE	9.5	10.5	11.5	10.5	11.1	11.5	10.0	11.0	12.0	9.5	9.9	10.5
0001 - 0600	10.5	10.7	11.0	10.5	10.8	11.0	11.5	11.5	11.5	10.0	10.0	10.0
0601 - 1200	10.5	10.7	11.0	10.5	10.5	10.5	11.5	12.0	12.5	10.0	10.2	10.5
1201 - 1800	11.0	11.3	11.5	10.5	10.5	10.5	13.0	13.3	13.5	10.5	10.5	10.5
1801 - 2400	11.0	11.3	11.5	10.5	10.5	10.5	13.5	13.5	13.5	10.5	10.5	10.5
DAILY VALUE	10.5	11.0	11.5	10.5	10.6	11.0	11.5	12.6	13.5	10.0	10.3	10.5
0001 - 0600	10.5	10.7	11.0	10.5	10.5	10.5	12.5	12.8	13.0	10.5	10.5	10.5
0601 - 1200	11.0	11.2	11.5	10.5	10.5	10.5	12.5	12.5	12.5	10.5	10.5	10.5
1201 - 1800	12.0	12.3	12.5	11.0	11.2	11.5	12.5	12.8	13.0	10.5	10.5	10.5
1801 - 2400	12.0	12.3	12.5	11.0	11.2	11.5	12.0	12.3	12.5	10.5	10.5	10.5
DAILY VALUE	10.5	11.6	12.5	10.5	10.8	11.5	12.0	12.6	13.0	10.5	10.5	10.5
0001 - 0600	11.5	11.7	12.0	10.5	10.7	11.0	11.0	11.3	11.5	10.0	10.3	10.5
0601 - 1200	11.0	11.3	11.5	10.5	10.7	11.0	11.0	11.0	11.0	10.0	10.2	10.5
1201 - 1800	11.5	11.8	12.0	11.0	11.3	11.5	11.0	11.0	11.0	10.5	10.5	10.5
1801 - 2400	12.0	12.0	12.0	11.5	11.5	11.5	11.0	11.0	11.0	10.5	10.5	10.5
DAILY VALUE	11.0	11.7	12.0	10.5	11.0	11.5	11.0	11.1	11.5	10.0	10.4	10.5
0001 - 0600	11.0	11.3	11.5	11.0	11.0	11.0	10.5	10.5	10.5	10.0	10.2	10.5
0601 - 1200	11.0	11.3	11.5	10.5	10.8	11.0	10.0	10.0	10.0	10.0	10.0	10.0
1201 - 1800	12.0	12.5	13.0	11.0	11.0	11.0	10.0	10.0	10.0	10.5	10.5	10.5
1801 - 2400	12.5	12.8	13.0	10.5	10.5	10.5	9.5	9.7	10.0	10.5	10.5	10.5
DAILY VALUE	11.0	12.0	13.0	10.5	10.8	11.0	9.5	10.0	10.5	10.0	10.3	10.5
0001 - 0600	12.0	12.3	12.5	9.5	9.8	10.0	9.5	9.5	9.5	MONTHLY VALUE		
0601 - 1200	12.0	12.0	12.0	9.5	9.8	10.0	9.5	9.5	9.5			
1201 - 1800	12.5	12.5	12.5	10.0	10.0	10.0	9.5	9.5	9.5	9.0 10.8 13.5		
1801 - 2400	12.0	12.3	12.5	9.5	9.8	10.0	9.5	9.5	9.5			
DAILY VALUE	12.0	12.3	12.5	9.5	9.9	10.0	9.5	9.5	9.5			

Appendix Table 4-C-5 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	10.0	10.2	10.5	10.0	10.2	10.5	10.0	10.2	10.5	10.5	10.5	10.5
0601 - 1200	10.0	10.3	10.5	10.0	10.0	10.0	9.5	9.5	9.5	10.0	10.0	10.0
1201 - 1800	11.0	11.3	11.5	10.5	10.7	11.0	10.0	10.3	10.5	10.0	10.3	10.5
1801 - 2400	11.0	11.3	11.5	11.0	11.0	11.0	10.5	10.5	10.5	10.5	10.5	10.5
DAILY VALUE	10.0	10.8	11.5	10.0	10.5	11.0	9.5	10.1	10.5	10.0	10.3	10.5
0001 - 0600	10.5	10.7	11.0	10.5	10.5	10.5	9.5	9.8	10.0	10.0	10.3	10.5
0601 - 1200	10.5	10.7	11.0	9.5	9.8	10.0	9.5	9.5	9.5	10.0	10.0	10.0
1201 - 1800	11.5	11.7	12.0	9.5	9.5	9.5	9.5	9.8	10.0	10.5	10.7	11.0
1801 - 2400	11.5	11.7	12.0	9.5	9.5	9.5	10.0	10.3	10.5	11.0	11.0	11.0
DAILY VALUE	10.5	11.2	12.0	9.5	9.8	10.5	9.5	9.9	10.5	10.0	10.5	11.0
0001 - 0600	10.5	10.8	11.0	9.0	9.2	9.5	9.5	9.7	10.0	10.0	10.3	10.5
0601 - 1200	10.5	11.0	11.5	8.5	8.7	9.0	9.0	9.0	9.0	10.0	10.2	10.5
1201 - 1800	11.5	11.8	12.0	9.0	9.3	9.5	9.5	9.8	10.0	10.5	10.7	11.0
1801 - 2400	11.5	11.8	12.0	9.5	9.7	10.0	10.5	10.5	10.5	10.5	10.8	11.0
DAILY VALUE	10.5	11.4	12.0	8.5	9.2	10.0	9.0	9.7	10.5	10.0	10.5	11.0
0001 - 0600	11.0	11.2	11.5	9.5	9.5	9.5	9.5	9.8	10.0	10.0	10.3	10.5
0601 - 1200	11.0	11.2	11.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.8	10.0
1201 - 1800	11.5	11.8	12.0	10.5	10.8	11.0	10.0	10.5	11.0	10.5	10.5	10.5
1801 - 2400	12.0	12.0	12.0	11.5	11.5	11.5	11.0	11.0	11.0	10.5	10.5	10.5
DAILY VALUE	11.0	11.5	12.0	9.5	10.3	11.5	9.5	10.2	11.0	9.5	10.3	10.5
0001 - 0600	11.5	11.5	11.5	10.5	11.0	11.5	10.0	10.3	10.5	9.5	10.0	10.5
0601 - 1200	11.5	11.7	12.0	10.5	10.5	10.5	10.0	10.2	10.5	9.5	9.5	9.5
1201 - 1800	12.0	12.3	12.5	11.0	11.3	11.5	10.5	10.8	11.0	9.5	9.5	9.5
1801 - 2400	12.0	12.3	12.5	12.0	12.0	12.0	11.0	11.0	11.0	9.5	9.5	9.5
DAILY VALUE	11.5	12.0	12.5	10.5	11.2	12.0	10.0	10.6	11.0	9.5	9.6	10.5
0001 - 0600	11.5	11.7	12.0	11.5	11.7	12.0	10.0	10.5	11.0	9.0	9.3	9.5
0601 - 1200	11.5	11.7	12.0	11.5	11.5	11.5	10.0	10.2	10.5	9.0	9.0	9.0
1201 - 1800	12.5	12.7	13.0	11.5	11.8	12.0	10.5	10.8	11.0	9.0	9.0	9.0
1801 - 2400	13.0	13.0	13.0	12.0	12.0	12.0	11.0	11.0	11.0	9.0	9.0	9.0
DAILY VALUE	11.5	12.2	13.0	11.5	11.7	12.0	10.0	10.6	11.0	9.0	9.1	9.5
0001 - 0600	12.0	12.2	12.5	11.5	11.7	12.0	10.5	10.8	11.0	8.5	8.5	8.5
0601 - 1200	11.5	11.5	11.5	10.5	10.8	11.0	10.5	10.5	10.5	8.5	8.5	8.5
1201 - 1800	11.5	11.5	11.5	10.5	10.5	10.5	10.5	10.7	11.0	8.5	8.5	8.5
1801 - 2400	11.5	11.5	11.5	10.0	10.0	10.0	11.0	11.0	11.0	9.0	9.0	9.0
DAILY VALUE	11.5	11.7	12.5	10.0	10.7	12.0	10.5	10.7	11.0	8.5	8.6	9.0
0001 - 0600	10.5	10.7	11.0	9.5	9.5	9.5	10.5	10.7	11.0	MONTHLY VALUE		
0601 - 1200	10.0	10.0	10.0	9.5	9.5	9.5	10.5	10.5	10.5			
1201 - 1800	10.0	10.2	10.5	10.0	10.3	10.5	10.5	10.8	11.0			
1801 - 2400	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.8	11.0			
DAILY VALUE	10.0	10.3	11.0	9.5	10.0	10.5	10.5	10.7	11.0	8.5	10.5	13.0

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Appendix Table 4-C-5 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.0	4.5	4.7	5.0
0601 - 1200	8.5	8.5	8.5	8.5	8.5	8.5	7.5	7.8	8.0	4.0	4.3	4.5
1201 - 1800	8.5	8.8	9.0	8.5	8.5	8.5	7.5	7.5	7.5	4.5	4.5	4.5
1801 - 2400	9.0	9.3	9.5	8.5	8.5	8.5	7.5	7.5	7.5	4.5	4.5	4.5
DAILY VALUE	8.5	8.8	9.5	8.5	8.5	8.5	7.5	7.7	8.0	4.0	4.5	5.0
0001 - 0600	8.5	9.0	9.5	8.0	8.3	8.5	7.0	7.0	7.0	4.5	4.5	4.5
0601 - 1200	8.5	9.0	9.5	8.0	8.0	8.0	6.5	6.8	7.0	4.5	4.5	4.5
1201 - 1800	9.5	9.5	9.5	8.5	8.5	8.5	6.5	6.5	6.5	5.0	5.0	5.0
1801 - 2400	9.5	9.5	9.5	8.5	8.5	8.5	6.5	6.5	6.5	5.0	5.0	5.0
DAILY VALUE	8.5	9.2	9.5	8.0	8.3	8.5	6.5	6.7	7.0	4.5	4.7	5.0
0001 - 0600	9.5	9.5	9.5	8.0	8.2	8.5	6.5	6.5	6.5	5.0	5.0	5.0
0601 - 1200	9.0	9.0	9.0	8.0	8.0	8.0	6.5	6.5	6.5	5.0	5.0	5.0
1201 - 1800	9.0	9.0	9.0	8.0	8.0	8.0	6.5	6.5	6.5	5.5	5.7	6.0
1801 - 2400	9.0	9.0	9.0	7.5	7.7	8.0	6.5	6.5	6.5	6.0	6.0	6.0
DAILY VALUE	9.0	9.1	9.5	7.5	8.0	8.5	6.5	6.5	6.5	5.0	5.4	6.0
0001 - 0600	8.5	8.7	9.0	7.0	7.3	7.5	6.5	6.5	6.5	5.5	5.5	5.5
0601 - 1200	8.5	8.5	8.5	6.5	6.5	6.5	6.5	6.5	6.5	5.0	5.0	5.0
1201 - 1800	8.5	8.8	9.0	6.5	6.5	6.5	6.5	6.5	6.5	5.0	5.0	5.0
1801 - 2400	9.0	9.0	9.0	6.5	6.5	6.5	6.5	6.5	6.5	4.5	4.8	5.0
DAILY VALUE	8.5	8.7	9.0	6.5	6.7	7.5	6.5	6.5	6.5	4.5	5.1	5.5
0001 - 0600	8.5	8.7	9.0	6.5	6.5	6.5	6.5	6.5	6.5	4.5	4.5	4.5
0601 - 1200	8.5	8.5	8.5	6.5	6.5	6.5	6.5	6.5	6.5	4.5	4.5	4.5
1201 - 1800	8.5	8.5	8.5	6.5	6.5	6.5	6.5	6.5	6.5	4.5	4.5	4.5
1801 - 2400	8.5	8.5	8.5	6.5	6.7	7.0	6.5	6.5	6.5	4.5	4.5	4.5
DAILY VALUE	8.5	8.5	9.0	6.5	6.5	7.0	6.5	6.5	6.5	4.5	4.5	4.5
0001 - 0600	8.0	8.2	8.5	6.5	6.8	7.0	6.0	6.3	6.5	4.5	4.5	4.5
0601 - 1200	7.5	7.7	8.0	6.5	6.5	6.5	6.0	6.0	6.0	4.5	4.5	4.5
1201 - 1800	8.0	8.0	8.0	7.0	7.0	7.0	6.5	6.5	6.5	5.0	5.0	5.0
1801 - 2400	8.0	8.0	8.0	7.0	7.0	7.0	6.5	6.5	6.5	5.0	5.0	5.0
DAILY VALUE	7.5	8.0	8.5	6.5	6.8	7.0	6.0	6.3	6.5	4.5	4.7	5.0
0001 - 0600	8.0	8.0	8.0	7.0	7.0	7.0	6.0	6.0	6.0	-----	-----	-----
0601 - 1200	8.0	8.2	8.5	7.0	7.0	7.0	5.5	5.5	5.5	-----	-----	-----
1201 - 1800	8.5	8.7	9.0	7.0	7.3	7.5	5.5	5.8	6.0	-----	-----	-----
1801 - 2400	9.0	9.0	9.0	7.5	7.5	7.5	5.5	5.8	6.0	-----	-----	-----
DAILY VALUE	8.0	8.5	9.0	7.0	7.2	7.5	5.5	5.8	6.0	-----	-----	-----
0001 - 0600	8.5	8.7	9.0	7.5	7.5	7.5	5.0	5.3	5.5	MONTHLY VALUE		
0601 - 1200	8.5	8.5	8.5	7.5	7.5	7.5	5.0	5.0	5.0			
1201 - 1800	9.0	9.0	9.0	7.5	7.8	8.0	5.0	5.0	5.0			
1801 - 2400	9.0	9.0	9.0	8.0	8.0	8.0	5.0	5.0	5.0			
DAILY VALUE	8.5	8.8	9.0	7.5	7.7	8.0	5.0	5.1	5.5	4.0	7.0	9.5

4-C-11

Appr 6 * Table 4-c-3 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	4.5	4.8	5.0	.5	.8	1.0	0.0	0.0	0.0	----	----	----
0601 - 1200	4.5	4.5	4.5	1.0	1.0	1.0	0.0	0.0	0.0	----	----	----
1201 - 1800	4.5	4.8	5.0	1.0	1.3	1.5	0.0	0.0	0.0	----	----	----
1801 - 2400	5.0	5.0	5.0	1.5	1.5	1.5	0.0	0.0	0.0	----	----	----
DAILY VALUE	4.5	4.8	5.0	.5	1.2	1.5	0.0	0.0	0.0	----	----	----
0001 - 0600	4.5	4.8	5.0	1.5	1.5	1.5	----	----	----	----	----	----
0601 - 1200	4.5	4.5	4.5	1.5	1.5	1.5	----	----	----	----	----	----
1201 - 1800	4.5	4.5	4.5	1.5	1.5	1.5	----	----	----	----	----	----
1801 - 2400	4.5	4.5	4.5	1.5	1.5	1.5	----	----	----	----	----	----
DAILY VALUE	4.5	4.6	5.0	1.5	1.5	1.5	----	----	----	----	----	----
0001 - 0600	4.5	4.5	4.5	1.5	1.5	1.5	----	----	----	----	----	----
0601 - 1200	4.5	4.5	4.5	1.5	1.5	1.5	----	----	----	----	----	----
1201 - 1800	4.5	4.5	4.5	1.0	1.0	1.0	----	----	----	----	----	----
1801 - 2400	4.0	4.2	4.5	1.0	1.0	1.0	----	----	----	----	----	----
DAILY VALUE	4.0	4.4	4.5	1.0	1.2	1.5	----	----	----	----	----	----
0001 - 0600	----	----	----	1.0	1.0	1.0	----	----	----	----	----	----
0601 - 1200	----	----	----	1.0	1.0	1.0	----	----	----	----	----	----
1201 - 1800	4.5	4.5	4.5	1.0	1.3	1.5	----	----	----	----	----	----
1801 - 2400	4.0	4.2	4.5	1.0	1.0	1.0	----	----	----	----	----	----
DAILY VALUE	4.0	----	4.5	1.0	1.1	1.5	----	----	----	----	----	----
0001 - 0600	3.0	3.3	3.5	1.0	1.0	1.0	----	----	----	----	----	----
0601 - 1200	2.5	2.5	2.5	1.0	1.0	1.0	----	----	----	----	----	----
1201 - 1800	2.5	2.8	3.0	1.0	1.0	1.0	----	----	----	----	----	----
1801 - 2400	2.5	2.5	2.5	1.0	1.0	1.0	----	----	----	----	----	----
DAILY VALUE	2.5	2.8	3.5	1.0	1.0	1.0	----	----	----	----	----	----
0001 - 0600	2.0	2.3	2.5	1.0	1.0	1.0	----	----	----	----	----	----
0601 - 1200	1.5	1.8	2.0	.5	.5	.5	----	----	----	----	----	----
1201 - 1800	2.0	2.0	2.0	0.0	.2	.5	----	----	----	----	----	----
1801 - 2400	2.0	2.0	2.0	0.0	0.0	0.0	----	----	----	----	----	----
DAILY VALUE	1.5	2.0	2.5	0.0	.4	1.0	----	----	----	----	----	----
0001 - 0600	1.5	1.8	2.0	0.0	0.0	0.0	----	----	----	----	----	----
0601 - 1200	1.0	1.3	1.5	0.0	0.0	0.0	----	----	----	----	----	----
1201 - 1800	1.0	1.3	1.5	0.0	.2	.5	----	----	----	----	----	----
1801 - 2400	1.5	1.5	1.5	0.0	0.0	0.0	----	----	----	----	----	----
DAILY VALUE	1.0	1.5	2.0	0.0	.0	.5	----	----	----	----	----	----
0001 - 0600	1.5	1.5	1.5	0.0	0.0	0.0	----	----	----	MONTHLY VALUE		
0601 - 1200	1.0	1.2	1.5	----	----	----	----	----	----			
1201 - 1800	1.0	1.3	1.5	0.0	0.0	0.0	----	----	----			
1801 - 2400	.5	.8	1.0	0.0	0.0	0.0	----	----	----	0.0 ---- 5.0		
DAILY VALUE	.5	1.2	1.5	0.0	0.0	0.0	----	----	----			

Appendix Table 4-C-4

Thermograph data summary, summer surface water temperature (C),
Parks Highway Bridge West, RM 83.9, Geocode
S24N05W15BAB.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	8.1	8.1	8.1	7.1	7.1	7.1	11.1	11.3	11.6
0601 - 1200	----	----	----	8.1	8.1	8.1	7.1	7.4	8.1	10.6	10.9	11.1
1201 - 1800	----	----	----	8.1	8.4	8.6	8.6	8.9	9.1	11.6	11.9	12.1
1801 - 2400	----	----	----	8.1	8.1	8.1	9.1	9.1	9.1	12.1	12.1	12.1
DAILY VALUE	----	----	----	8.1	8.2	8.6	7.1	8.1	9.1	10.6	11.6	12.1
0001 - 0600	----	----	----	7.6	7.6	7.6	9.1	9.1	9.1	11.1	11.4	11.6
0601 - 1200	----	----	----	7.6	7.6	7.6	9.1	9.1	9.1	10.6	10.8	11.1
1201 - 1800	----	----	----	7.6	7.6	7.6	9.6	9.6	9.6	11.6	11.6	11.6
1801 - 2400	----	----	----	7.6	7.6	7.6	9.1	9.1	9.1	11.1	11.4	11.6
DAILY VALUE	----	----	----	7.6	7.6	7.6	9.1	9.2	9.6	10.6	11.3	11.6
0001 - 0600	----	----	----	7.6	7.6	7.6	8.6	8.8	9.1	10.1	10.6	11.1
0601 - 1200	----	----	----	7.6	7.6	7.6	8.6	9.1	9.6	10.1	10.3	10.6
1201 - 1800	----	----	----	7.6	7.6	7.6	10.1	10.4	10.6	10.1	10.3	10.6
1801 - 2400	----	----	----	7.6	7.6	7.6	10.6	10.6	10.6	10.1	10.1	10.1
DAILY VALUE	----	----	----	7.6	7.6	7.6	8.6	9.7	10.6	10.1	10.3	11.1
0001 - 0600	----	----	----	7.6	7.6	7.6	9.6	9.9	10.1	9.6	9.9	10.1
0601 - 1200	----	----	----	7.6	7.6	7.6	9.1	9.4	9.6	9.6	9.6	9.6
1201 - 1800	----	----	----	7.6	7.6	7.6	8.6	8.8	9.1	10.1	10.1	10.1
1801 - 2400	----	----	----	7.6	7.6	7.6	7.6	7.9	8.1	10.1	10.1	10.1
DAILY VALUE	----	----	----	7.6	7.6	7.6	7.6	9.0	10.1	9.6	9.9	10.1
0001 - 0600	----	----	----	7.6	7.6	7.6	7.1	7.4	7.6	9.1	9.4	9.6
0601 - 1200	----	----	----	7.6	7.8	8.1	7.1	7.6	8.1	8.6	8.9	9.1
1201 - 1800	----	----	----	8.1	8.4	8.6	8.6	8.6	8.6	9.1	9.4	9.6
1801 - 2400	----	----	----	8.1	8.3	8.6	8.6	8.6	8.6	9.6	9.8	10.1
DAILY VALUE	----	----	----	7.6	8.0	8.6	7.1	8.1	8.6	8.6	9.4	10.1
0001 - 0600	----	----	----	8.1	8.1	8.1	8.6	8.6	8.6	9.1	9.4	9.6
0601 - 1200	----	----	----	8.1	8.3	8.6	8.6	8.8	9.1	9.1	9.1	9.1
1201 - 1800	----	----	----	9.6	9.6	9.6	9.6	9.6	9.6	9.1	9.1	9.1
1801 - 2400	----	----	----	9.6	9.6	9.6	9.6	9.6	9.6	9.1	9.1	9.1
DAILY VALUE	----	----	----	8.1	8.9	9.6	8.6	9.1	9.6	9.1	9.2	9.6
0001 - 0600	----	----	----	9.1	9.4	9.6	9.6	9.6	9.6	-----	-----	-----
0601 - 1200	----	----	----	8.6	8.8	9.1	9.1	9.4	9.6	-----	-----	-----
1201 - 1800	----	----	----	8.6	8.6	8.6	10.1	10.4	10.6	-----	-----	-----
1801 - 2400	----	----	----	7.6	7.9	8.1	10.6	10.6	10.6	-----	-----	-----
DAILY VALUE	----	----	----	7.6	8.7	9.6	9.1	10.0	10.6	-----	-----	-----
0001 - 0600	----	----	----	7.1	7.3	7.6	10.1	10.3	10.6	MONTHLY VALUE		
0601 - 1200	----	----	----	6.6	6.9	7.1	10.1	10.3	10.6			
1201 - 1800	8.1	8.1	8.1	7.1	7.1	7.1	11.1	11.4	11.6			
1801 - 2400	8.1	8.1	8.1	7.1	7.1	7.1	11.6	11.6	11.6			
DAILY VALUE	8.1	-----	8.1	6.6	7.1	7.6	10.1	10.9	11.6			

Appendix Table 4-C-4 Cont.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.1	8.4	8.6	10.1	10.4	10.6	---	---	---	---	---	---
0601 - 1200	8.1	8.3	8.6	9.1	9.3	9.6	---	---	---	---	---	---
1201 - 1800	9.1	9.3	9.6	9.6	10.1	10.6	---	---	---	---	---	---
1801 - 2400	8.6	8.9	9.1	10.1	---	10.1	---	---	---	---	---	---
DAILY VALUE	8.1	8.7	9.6	9.1	9.9	10.6	---	---	---	---	---	---
0001 - 0600	8.1	8.3	8.6	---	---	---	---	---	---	---	---	---
0601 - 1200	7.6	7.8	8.1	---	---	---	---	---	---	---	---	---
1201 - 1800	8.1	8.4	8.6	---	---	---	---	---	---	---	---	---
1801 - 2400	8.6	8.6	8.6	---	---	---	---	---	---	---	---	---
DAILY VALUE	7.6	8.3	8.6	---	---	---	---	---	---	---	---	---
0001 - 0600	8.1	8.3	8.6	---	---	---	---	---	---	---	---	---
0601 - 1200	8.1	8.3	8.6	---	---	---	---	---	---	---	---	---
1201 - 1800	9.1	9.6	10.1	---	---	---	---	---	---	---	---	---
1801 - 2400	10.1	10.1	10.1	---	---	---	---	---	---	---	---	---
DAILY VALUE	8.1	9.1	10.1	---	---	---	---	---	---	---	---	---
0001 - 0600	9.6	9.8	10.1	---	---	---	---	---	---	---	---	---
0601 - 1200	9.1	9.3	9.6	---	---	---	---	---	---	---	---	---
1201 - 1800	9.6	10.1	10.6	---	---	---	---	---	---	---	---	---
1801 - 2400	10.1	10.1	10.1	---	---	---	---	---	---	---	---	---
DAILY VALUE	9.1	9.8	10.6	---	---	---	---	---	---	---	---	---
0001 - 0600	10.1	10.1	10.1	---	---	---	---	---	---	---	---	---
0601 - 1200	9.6	9.6	9.6	---	---	---	---	---	---	---	---	---
1201 - 1800	9.6	9.8	10.1	---	---	---	---	---	---	---	---	---
1801 - 2400	10.1	10.1	10.1	---	---	---	---	---	---	---	---	---
DAILY VALUE	9.6	9.9	10.1	---	---	---	---	---	---	---	---	---
0001 - 0600	10.1	10.1	10.1	---	---	---	---	---	---	---	---	---
0601 - 1200	9.1	9.4	9.6	---	---	---	---	---	---	---	---	---
1201 - 1800	9.6	9.6	9.6	---	---	---	---	---	---	---	---	---
1801 - 2400	9.6	9.6	9.6	---	---	---	---	---	---	---	---	---
DAILY VALUE	9.1	9.7	10.1	---	---	---	---	---	---	---	---	---
0001 - 0600	9.6	9.6	9.6	---	---	---	---	---	---	---	---	---
0601 - 1200	9.6	9.6	9.6	---	---	---	---	---	---	---	---	---
1201 - 1800	10.1	10.6	11.1	---	---	---	---	---	---	---	---	---
1801 - 2400	11.1	11.4	11.6	---	---	---	---	---	---	---	---	---
DAILY VALUE	9.6	10.3	11.6	---	---	---	---	---	---	---	---	---
0001 - 0600	9.6	10.1	11.1	---	---	---	---	---	---	MONTHLY VALUE		
0601 - 1200	10.6	10.8	11.1	---	---	---	---	---	---			
1201 - 1800	10.6	10.6	10.6	---	---	---	---	---	---			
1801 - 2400	10.6	10.6	10.6	---	---	---	---	---	---			
DAILY VALUE	9.6	10.5	11.1	---	---	---	---	---	---			

4-C-14

App

Table 4-C-5

Thermograph data summary, summer surface water temperature (C),
Parks Highway Bridge East, RM 83.9, Geocode
S24N05W15BAD.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	---	---	---	---	---	---	---	---	---	9.5	9.7	10.0
0601 - 1200	---	---	---	---	---	---	---	---	---	9.5	9.5	9.5
1201 - 1800	---	---	---	---	---	---	---	---	---	9.5	9.8	10.0
1801 - 2400	---	---	---	---	---	---	---	---	---	9.5	9.7	10.0
DAILY VALUE	---	---	---	---	---	---	---	---	---	9.5	9.7	10.0
0001 - 0600	---	---	---	---	---	---	---	---	---	9.5	9.5	9.5
0601 - 1200	---	---	---	---	---	---	---	---	---	9.0	9.2	9.5
1201 - 1800	---	---	---	---	---	---	---	---	---	9.5	9.8	10.0
1801 - 2400	---	---	---	---	---	---	---	---	---	10.0	10.0	10.0
DAILY VALUE	---	---	---	---	---	---	---	---	---	9.0	9.6	10.0
0001 - 0600	---	---	---	---	---	---	---	---	---	9.0	9.3	9.5
0601 - 1200	---	---	---	---	---	---	---	---	---	9.0	9.0	9.0
1201 - 1800	---	---	---	---	---	---	---	---	---	9.5	9.5	9.5
1801 - 2400	---	---	---	---	---	---	---	---	---	9.5	9.5	9.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	9.0	9.3	9.5
0001 - 0600	---	---	---	---	---	---	---	---	---	9.0	9.0	9.0
0601 - 1200	---	---	---	---	---	---	---	---	---	8.5	8.5	8.5
1201 - 1800	---	---	---	---	---	---	---	---	---	8.5	8.8	9.0
1801 - 2400	---	---	---	---	---	---	---	---	---	9.0	9.0	9.0
DAILY VALUE	---	---	---	---	---	---	---	---	---	8.5	8.8	9.0
0001 - 0600	---	---	---	---	---	---	---	---	---	8.5	8.5	8.5
0601 - 1200	---	---	---	---	---	---	---	---	---	8.5	8.5	8.5
1201 - 1800	---	---	---	---	---	---	---	---	---	8.5	8.5	8.5
1801 - 2400	---	---	---	---	---	---	---	---	---	8.5	8.5	8.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	8.5	8.5	8.5
0001 - 0600	---	---	---	---	---	---	---	---	---	8.5	8.5	8.5
0601 - 1200	---	---	---	---	---	---	---	---	---	8.0	8.0	8.0
1201 - 1800	---	---	---	---	---	---	---	---	---	8.0	8.0	8.0
1801 - 2400	---	---	---	---	---	---	10.0	10.0	10.0	8.0	8.0	8.0
DAILY VALUE	---	---	---	---	---	---	10.0	---	10.0	8.0	8.1	8.5
0001 - 0600	---	---	---	---	---	---	10.0	10.0	10.0	8.0	8.0	8.0
0601 - 1200	---	---	---	---	---	---	10.0	10.0	10.0	8.0	8.0	8.0
1201 - 1800	---	---	---	---	---	---	10.5	10.5	10.5	8.0	8.0	8.0
1801 - 2400	---	---	---	---	---	---	10.0	10.3	10.5	8.0	8.0	8.0
DAILY VALUE	---	---	---	---	---	---	10.0	10.2	10.5	8.0	8.0	8.0
0001 - 0600	---	---	---	---	---	---	9.5	9.8	10.0	MONTHLY VALUE		
0601 - 1200	---	---	---	---	---	---	9.5	9.5	9.5			
1201 - 1800	---	---	---	---	---	---	9.5	9.8	10.0			
1801 - 2400	---	---	---	---	---	---	10.0	10.0	10.0			
DAILY VALUE	---	---	---	---	---	---	9.5	9.8	10.0	8.0	---	10.5

4-C-15

Appendix Table 4-C-5 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.0	8.0	8.0	7.5	7.5	7.5	6.5	6.5	6.5	4.1	4.3	4.6
0601 - 1200	8.0	8.0	8.0	7.5	7.5	7.5	6.5	6.5	6.5	4.1	4.1	4.1
1201 - 1800	8.5	8.7	9.0	7.5	7.7	8.0	6.0	6.0	6.0	4.1	4.3	4.6
1801 - 2400	8.5	8.5	8.5	7.5	7.7	8.0	6.0	6.0	6.0	4.6	4.6	4.6
DAILY VALUE	8.0	8.3	9.0	7.5	7.6	8.0	6.0	6.2	6.5	4.1	4.3	4.6
0001 - 0600	8.0	8.2	8.5	7.5	7.5	7.5	6.0	6.0	6.0	4.6	4.6	4.6
0601 - 1200	8.0	8.0	8.0	7.5	7.5	7.5	6.0	6.0	6.0	4.6	4.6	4.6
1201 - 1800	8.5	8.5	8.5	7.5	7.5	7.5	6.0	6.0	6.0	4.6	4.6	4.6
1801 - 2400	8.5	8.5	8.5	7.5	7.5	7.5	6.0	6.0	6.0	4.6	4.6	4.6
DAILY VALUE	8.0	8.3	8.5	7.5	7.5	7.5	6.0	6.0	6.0	4.6	4.6	4.6
0001 - 0600	8.0	8.0	8.0	7.0	7.3	7.5	6.0	6.0	6.0	4.6	4.6	4.6
0601 - 1200	8.0	8.0	8.0	7.0	7.0	7.0	6.0	6.0	6.0	4.6	4.8	5.1
1201 - 1800	8.0	8.0	8.0	7.0	7.0	7.0	6.0	6.0	6.0	5.1	5.4	5.6
1801 - 2400	8.0	8.0	8.0	6.5	6.8	7.0	6.0	6.0	6.0	4.6	5.1	5.6
DAILY VALUE	8.0	8.0	8.0	6.5	7.0	7.5	6.0	6.0	6.0	4.6	5.0	5.6
0001 - 0600	7.5	7.7	8.0	5.5	5.8	6.0	6.0	6.0	6.0	4.6	4.6	4.6
0601 - 1200	7.5	7.5	7.5	5.5	5.5	5.5	6.0	6.2	6.6	4.1	4.1	4.1
1201 - 1800	8.0	8.2	8.5	5.5	5.7	6.0	6.1	6.1	6.1	4.1	4.1	4.1
1801 - 2400	8.0	8.0	8.0	6.0	6.0	6.0	6.1	6.1	6.1	4.1	4.1	4.1
DAILY VALUE	7.5	7.8	8.5	5.5	5.7	6.0	6.0	6.1	6.6	4.1	4.2	4.6
0001 - 0600	7.5	7.5	7.5	6.0	6.0	6.0	6.1	6.1	6.1	4.1	4.1	4.1
0601 - 1200	7.5	7.5	7.5	5.5	5.7	6.0	6.1	6.1	6.1	4.1	4.1	4.1
1201 - 1800	7.5	7.5	7.5	6.0	6.0	6.0	6.1	6.1	6.1	4.1	4.4	4.6
1801 - 2400	7.5	7.5	7.5	6.0	6.0	6.0	6.1	6.1	6.1	4.6	4.6	4.6
DAILY VALUE	7.5	7.5	7.5	5.5	5.9	6.0	6.1	6.1	6.1	4.1	4.3	4.6
0001 - 0600	7.5	7.5	7.5	6.0	6.0	6.0	5.6	5.8	6.1	4.6	4.6	4.6
0601 - 1200	7.0	7.0	7.0	6.0	6.0	6.0	5.6	5.6	5.6	4.6	4.6	4.6
1201 - 1800	7.5	7.5	7.5	6.5	6.5	6.5	6.1	6.1	6.1	4.6	4.6	4.6
1801 - 2400	7.5	7.5	7.5	6.5	6.5	6.5	5.6	5.8	6.1	4.6	4.6	4.6
DAILY VALUE	7.0	7.4	7.5	6.0	6.2	6.5	5.6	5.8	6.1	4.6	4.6	4.6
0001 - 0600	7.5	7.5	7.5	6.5	6.5	6.5	5.1	5.3	5.6	-----	-----	-----
0601 - 1200	7.5	7.5	7.5	6.5	6.5	6.5	4.6	4.6	4.6	-----	-----	-----
1201 - 1800	8.0	8.3	8.5	6.5	6.5	6.5	5.1	5.4	5.6	-----	-----	-----
1801 - 2400	8.0	8.3	8.5	6.5	6.8	7.0	5.1	5.3	5.6	-----	-----	-----
DAILY VALUE	7.5	7.9	8.5	6.5	6.6	7.0	4.6	5.1	5.6	-----	-----	-----
0001 - 0600	8.0	8.0	8.0	7.0	7.0	7.0	4.6	4.6	4.6	MONTHLY VALUE		
0601 - 1200	8.0	8.0	8.0	7.0	7.0	7.0	4.1	4.1	4.1			
1201 - 1800	8.0	8.0	8.0	7.0	7.0	7.0	4.1	4.4	4.6			
1801 - 2400	7.5	7.8	8.0	6.5	6.7	7.0	4.6	4.6	4.6	4.1 6.3 9.0		
DAILY VALUE	7.5	8.0	8.0	6.5	6.9	7.0	4.1	4.4	4.6			

Table 4-C-5 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	4.6	4.6	4.6	1.2	1.2	1.2	.2	.2	.2	.2	.2	.2
0601 - 1200	4.6	4.6	4.6	1.2	1.2	1.2	.2	.2	.2	.2	.2	.2
1201 - 1800	4.6	4.6	4.6	1.2	1.2	1.2	.2	.2	.2	.2	.2	.2
1801 - 2400	4.6	4.6	4.6	1.2	1.5	1.7	.2	.2	.2	.2	.2	.2
DAILY VALUE	4.6	4.6	4.6	1.2	1.3	1.7	.2	.2	.2	.2	.2	.2
0001 - 0600	4.1	4.1	4.1	1.2	1.2	1.2	.2	.2	.2	.2	.2	.2
0601 - 1200	4.1	4.1	4.1	1.2	1.2	1.2	.2	.2	.2	.2	---	.2
1201 - 1800	4.1	4.1	4.1	1.2	1.5	1.7	.2	.2	.2	---	---	---
1801 - 2400	4.1	4.1	4.1	1.2	1.4	1.7	.2	.2	.2	---	---	---
DAILY VALUE	4.1	4.1	4.1	1.2	1.3	1.7	.2	.2	.2	.2	---	.2
0001 - 0600	4.1	4.1	4.1	1.2	1.2	1.2	.2	.2	.2	---	---	---
0601 - 1200	3.6	3.8	4.1	1.2	1.2	1.2	.2	.2	.2	---	---	---
1201 - 1800	3.6	3.6	3.6	1.2	1.2	1.2	.2	.2	.2	---	---	---
1801 - 2400	3.6	3.6	3.6	1.2	1.2	1.2	.2	.2	.2	---	---	---
DAILY VALUE	3.6	3.8	4.1	1.2	1.2	1.2	.2	.2	.2	---	---	---
0001 - 0600	3.6	3.6	3.6	1.2	1.2	1.2	.2	.2	.2	---	---	---
0601 - 1200	2.6	2.9	3.1	.7	.7	.7	.2	.2	.2	---	---	---
1201 - 1800	3.1	3.1	3.2	1.2	1.2	1.2	.2	.2	.2	---	---	---
1801 - 2400	2.7	2.9	3.2	1.2	1.2	1.2	.2	.2	.2	---	---	---
DAILY VALUE	2.6	3.1	3.6	.7	1.1	1.2	.2	.2	.2	---	---	---
0001 - 0600	2.2	2.2	2.2	1.2	1.2	1.2	.2	.2	.2	---	---	---
0601 - 1200	1.7	1.7	1.7	.7	.7	.7	.2	.2	.2	---	---	---
1201 - 1800	1.7	2.0	2.2	.7	.7	.7	.2	.2	.2	---	---	---
1801 - 2400	1.7	1.9	2.2	.7	.7	.7	.2	.2	.2	---	---	---
DAILY VALUE	1.7	1.9	2.2	.7	.8	1.2	.2	.2	.2	---	---	---
0001 - 0600	1.2	1.5	1.7	.7	.7	.7	.2	.2	.2	---	---	---
0601 - 1200	1.2	1.2	1.2	.7	.7	.7	.2	.2	.2	---	---	---
1201 - 1800	1.2	1.5	1.7	.7	.7	.7	.2	.2	.2	---	---	---
1801 - 2400	1.7	1.7	1.7	.7	.7	.7	.2	.2	.2	---	---	---
DAILY VALUE	1.2	1.5	1.7	.7	.7	.7	.2	.2	.2	---	---	---
0001 - 0600	1.7	1.7	1.7	.2	.5	.7	.2	.2	.2	---	---	---
0601 - 1200	1.2	1.4	1.7	.2	.2	.2	.2	.2	.2	---	---	---
1201 - 1800	1.2	1.2	1.2	.2	.2	.2	.2	.2	.2	---	---	---
1801 - 2400	1.2	1.2	1.2	.2	.2	.2	.2	.2	.2	---	---	---
DAILY VALUE	1.2	1.4	1.7	.2	.3	.7	.2	.2	.2	---	---	---
0001 - 0600	.7	.7	.7	.2	.2	.2	.2	.2	.2	MONTHLY VALUE		
0601 - 1200	.7	.9	1.2	.2	.2	.2	.2	.2	.2			
1201 - 1800	1.2	1.2	1.2	.2	.2	.2	.2	.2	.2			
1801 - 2400	1.2	1.2	1.2	.2	.2	.2	.2	.2	.2	.2	1.2	4.6
DAILY VALUE	.7	1.0	1.2	.2	.2	.2	.2	.2	.2			

Appendix Table 4-C-6

Thermograph data summary, summer surface water temperature (C),
LRX 1, RM 97.0, Geocode S26N05W23DCB.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	7.6	7.6	7.6	6.1	6.1	6.1	----	----	----
0601 - 1200	----	----	----	7.1	7.3	7.6	6.1	6.3	6.6	----	----	----
1201 - 1800	----	----	----	7.6	7.6	7.6	7.1	7.6	8.1	----	----	----
1801 - 2400	----	----	----	7.1	7.4	7.6	8.6	8.9	9.1	----	----	----
DAILY VALUE	----	----	----	7.1	7.5	7.6	6.1	7.2	9.1	----	----	----
0001 - 0600	----	----	----	6.6	6.9	7.1	8.6	8.9	9.1	----	----	----
0601 - 1200	----	----	----	6.6	6.6	6.6	8.1	8.1	8.1	----	----	----
1201 - 1800	----	----	----	6.6	6.8	7.1	8.1	8.1	8.1	----	----	----
1801 - 2400	----	----	----	7.6	7.6	7.6	8.6	8.9	9.1	----	----	----
DAILY VALUE	----	----	----	6.6	7.0	7.6	8.1	8.5	9.1	----	----	----
0001 - 0600	----	----	----	6.6	6.8	7.1	7.6	8.1	8.6	----	----	----
0601 - 1200	----	----	----	6.6	6.6	6.6	7.6	7.6	7.6	----	----	----
1201 - 1800	----	----	----	6.6	6.6	6.6	8.6	9.1	9.6	----	----	----
1801 - 2400	----	----	----	6.6	6.6	6.6	10.1	10.1	10.1	----	----	----
DAILY VALUE	----	----	----	6.6	6.6	7.1	7.6	8.7	10.1	----	----	----
0001 - 0600	----	----	----	6.6	6.6	6.6	9.6	9.8	10.1	----	----	----
0601 - 1200	----	----	----	6.6	6.6	6.6	8.6	8.8	9.1	----	----	----
1201 - 1800	----	----	----	6.6	6.6	6.6	7.6	7.9	8.1	----	----	----
1801 - 2400	----	----	----	6.6	6.9	7.1	7.6	7.6	7.6	----	----	----
DAILY VALUE	----	----	----	6.6	6.7	7.1	7.6	8.5	10.1	----	----	----
0001 - 0600	----	----	----	6.6	6.6	6.6	6.6	7.1	7.6	----	----	----
0601 - 1200	----	----	----	6.6	6.6	6.6	6.6	6.8	7.1	----	----	----
1201 - 1800	----	----	----	6.6	7.1	7.6	7.6	7.8	8.1	----	----	----
1801 - 2400	----	----	----	7.6	7.6	7.6	8.6	8.6	8.6	----	----	----
DAILY VALUE	----	----	----	6.6	7.0	7.6	6.6	7.6	8.6	----	----	----
0001 - 0600	----	----	----	7.1	7.4	7.6	8.1	8.4	8.6	----	----	----
0601 - 1200	----	----	----	6.6	6.6	6.6	7.6	7.6	7.6	----	----	----
1201 - 1800	----	----	----	7.6	8.1	8.6	8.1	8.4	8.6	----	----	----
1801 - 2400	----	----	----	8.6	8.6	8.6	9.1	9.3	9.6	----	----	----
DAILY VALUE	----	----	----	6.6	7.7	8.6	7.6	8.4	9.6	----	----	----
0001 - 0600	----	----	----	8.6	8.6	8.6	8.6	9.1	9.6	----	----	----
0601 - 1200	----	----	----	7.6	7.8	8.1	7.6	7.9	8.1	----	----	----
1201 - 1800	----	----	----	7.1	7.3	7.6	8.6	9.1	9.6	----	----	----
1801 - 2400	----	----	----	6.6	6.8	7.1	9.6	9.6	9.6	----	----	----
DAILY VALUE	----	----	----	6.6	7.6	8.6	7.6	8.9	9.6	----	----	----
0001 - 0600	----	----	----	5.6	5.9	6.1	9.1	9.4	9.6	MONTHLY VALUE		
0601 - 1200	----	----	----	5.6	5.6	5.6	8.6	8.6	8.6			
1201 - 1800	7.1	7.3	7.6	5.6	5.6	5.6	9.6	----	9.6			
1801 - 2400	7.6	7.6	7.6	5.6	5.6	5.6	----	----	----			
DAILY VALUE	7.1	----	7.6	5.6	5.7	6.1	8.6	----	9.6	5.6	----	10.1

4-C-18

Table 4-C-7 Thermograph data summary, summer surface water temperature (C),
Talkeetna River, RM 97.2, TRM 1.5, Geocode
S26N05W24BDA.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	6.9	6.9	6.9	5.9	5.9	5.9	----	----	----
0601 - 1200	----	----	----	6.4	6.4	6.4	5.9	6.1	6.4	----	----	----
1201 - 1800	----	----	----	6.4	6.4	6.4	7.4	8.2	8.9	----	----	----
1801 - 2400	----	----	----	6.9	6.9	6.9	9.4	9.4	9.4	----	----	----
DAILY VALUE	----	----	----	6.4	6.6	6.9	5.9	7.4	9.4	----	----	----
0001 - 0600	----	----	----	6.9	6.9	6.9	8.4	8.6	8.9	----	----	----
0601 - 1200	----	----	----	6.9	6.9	6.9	7.9	7.9	7.9	----	----	----
1201 - 1800	----	----	----	6.9	6.9	6.9	7.9	7.9	7.9	----	----	----
1801 - 2400	----	----	----	6.9	6.9	6.9	7.9	7.9	7.9	----	----	----
DAILY VALUE	----	----	----	6.9	6.9	6.9	7.9	8.1	8.9	----	----	----
0001 - 0600	----	----	----	6.4	6.7	6.9	7.4	7.6	7.9	----	----	----
0601 - 1200	----	----	----	5.9	6.1	6.4	7.4	7.4	7.4	----	----	----
1201 - 1800	----	----	----	6.4	6.4	6.4	8.4	8.9	9.4	----	----	----
1801 - 2400	----	----	----	6.4	6.4	6.4	9.4	9.4	9.4	----	----	----
DAILY VALUE	----	----	----	5.9	6.4	6.9	7.4	8.3	9.4	----	----	----
0001 - 0600	----	----	----	6.4	6.4	6.4	8.9	9.2	9.4	----	----	----
0601 - 1200	----	----	----	6.4	6.4	6.4	7.4	7.9	8.4	----	----	----
1201 - 1800	----	----	----	6.4	6.4	6.4	6.9	7.2	7.4	----	----	----
1801 - 2400	----	----	----	6.4	6.4	6.4	6.4	6.4	6.4	----	----	----
DAILY VALUE	----	----	----	6.4	6.4	6.4	6.4	7.7	9.4	----	----	----
0001 - 0600	----	----	----	6.4	6.4	6.4	6.4	6.4	6.4	----	----	----
0601 - 1200	----	----	----	5.9	6.1	6.4	6.4	6.6	6.9	----	----	----
1201 - 1800	----	----	----	6.4	6.7	6.9	7.4	7.4	7.4	----	----	----
1801 - 2400	----	----	----	6.9	6.9	6.9	7.9	7.9	7.9	----	----	----
DAILY VALUE	----	----	----	5.9	6.5	6.9	6.4	7.1	7.9	----	----	----
0001 - 0600	----	----	----	6.9	6.9	6.9	7.9	7.9	7.9	----	----	----
0601 - 1200	----	----	----	6.9	7.1	7.4	7.4	7.6	7.9	----	----	----
1201 - 1800	----	----	----	8.4	8.9	9.4	8.4	8.9	9.4	----	----	----
1801 - 2400	----	----	----	8.9	9.1	9.4	8.9	9.2	9.4	----	----	----
DAILY VALUE	----	----	----	6.9	8.0	9.4	7.4	8.4	9.4	----	----	----
0001 - 0600	----	----	----	7.9	8.2	8.4	8.4	8.6	8.9	----	----	----
0601 - 1200	----	----	----	7.4	7.6	7.9	8.4	8.4	8.4	----	----	----
1201 - 1800	----	----	----	6.4	6.6	6.9	8.9	9.6	10.4	----	----	----
1801 - 2400	----	----	----	6.4	6.4	6.4	10.4	10.4	10.4	----	----	----
DAILY VALUE	----	----	----	6.4	7.2	8.4	8.4	9.2	10.4	----	----	----
0001 - 0600	----	----	----	5.9	5.9	5.9	9.4	9.9	10.4	MONTHLY VALUE		
0601 - 1200	----	----	----	5.9	5.9	5.9	9.4	9.4	9.4			
1201 - 1800	6.4	6.6	6.9	5.9	5.9	5.9	9.4	-----	9.4			
1801 - 2400	6.9	6.9	6.9	5.9	5.9	5.9	-----	-----	-----	5.9 ----- 10.4		
DAILY VALUE	6.4	-----	6.9	5.9	5.9	5.9	9.4	-----	10.4			

Appendix Table 4-C-1 Cont.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	9.0	----	9.0
1201 - 1800	----	----	----	----	----	----	----	----	----	9.0	9.2	9.5
1801 - 2400	----	----	----	----	----	----	----	----	----	9.0	9.3	9.5
DAILY VALUE	----	----	----	----	----	----	----	----	----	9.0	----	9.5
0001 - 0600	----	----	----	----	----	----	----	----	----	MONTHLY VALUE		
0601 - 1200	----	----	----	----	----	----	----	----	----			
1201 - 1800	----	----	----	----	----	----	----	----	----			
1801 - 2400	----	----	----	----	----	----	----	----	----	9.0	----	9.5
DAILY VALUE	----	----	----	----	----	----	----	----	----			

TABLE 4-C-7 CONT.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.5	8.8	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5
0601 - 1200	8.5	8.5	8.5	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5
1201 - 1800	9.0	9.5	10.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.8	10.0
1801 - 2400	9.5	9.7	10.0	9.0	9.0	9.0	8.5	8.8	9.0	9.5	9.5	9.5
DAILY VALUE	8.5	9.1	10.0	9.0	9.0	9.0	8.5	9.2	9.5	9.5	9.6	10.0
0001 - 0600	9.0	9.3	9.5	9.0	9.0	9.0	8.5	8.5	8.5	9.0	9.3	9.5
0601 - 1200	8.5	8.7	9.0	9.0	9.0	9.0	8.5	8.5	8.5	9.0	9.2	9.5
1201 - 1800	9.0	9.3	9.5	9.0	9.0	9.0	9.0	9.0	9.0	10.0	10.3	10.5
1801 - 2400	9.5	9.5	9.5	8.5	8.7	9.0	8.5	8.8	9.0	10.0	10.2	10.5
DAILY VALUE	8.5	9.2	9.5	8.5	8.9	9.0	8.5	8.7	9.0	9.0	9.7	10.5
0001 - 0600	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.3	9.5
0601 - 1200	9.0	9.2	9.5	8.5	8.7	9.0	8.5	9.0	9.5	9.0	9.0	9.0
1201 - 1800	10.0	10.3	10.5	9.5	9.8	10.0	10.0	10.3	10.5	9.5	9.5	9.5
1801 - 2400	10.0	10.3	10.5	9.5	9.7	10.0	9.5	10.0	10.5	9.0	9.3	9.5
DAILY VALUE	9.0	9.8	10.5	8.5	9.2	10.0	8.5	9.5	10.5	9.0	9.3	9.5
0001 - 0600	9.5	9.8	10.0	9.0	9.2	9.5	9.0	9.2	9.5	8.5	8.5	8.5
0601 - 1200	9.5	9.5	9.5	8.5	9.0	9.5	9.0	9.3	9.5	9.0	9.0	9.0
1201 - 1800	10.0	10.3	10.5	10.0	10.2	10.5	10.5	10.8	11.0	9.5	9.5	9.5
1801 - 2400	10.5	10.5	10.5	10.0	10.2	10.5	10.5	10.7	11.0	8.5	9.0	9.5
DAILY VALUE	9.5	10.0	10.5	8.5	9.6	10.5	9.0	10.0	11.0	8.5	9.0	9.5
0001 - 0600	10.0	10.2	10.5	9.5	9.5	9.5	9.5	9.7	10.0	8.5	8.5	8.5
0601 - 1200	9.5	9.8	10.0	9.5	10.0	10.5	9.5	9.7	10.0	8.5	8.7	9.0
1201 - 1800	10.5	10.8	11.0	11.0	11.2	11.5	10.5	10.8	11.0	9.0	9.0	9.0
1801 - 2400	10.5	10.7	11.0	11.0	11.0	11.0	10.5	10.7	11.0	8.5	8.5	8.5
DAILY VALUE	9.5	10.4	11.0	9.5	10.4	11.5	9.5	10.2	11.0	8.5	8.7	9.0
0001 - 0600	9.5	9.8	10.0	10.5	10.7	11.0	9.5	9.7	10.0	8.5	8.5	8.5
0601 - 1200	9.5	9.5	9.5	10.5	10.8	11.0	9.0	9.2	9.5	8.5	8.5	8.5
1201 - 1800	10.0	10.3	10.5	10.5	10.5	10.5	10.0	10.2	10.5	8.5	8.5	8.5
1801 - 2400	10.5	10.5	10.5	10.0	10.3	10.5	10.0	10.0	10.0	8.0	8.3	8.5
DAILY VALUE	9.5	10.0	10.5	10.0	10.6	11.0	9.0	9.7	10.5	8.0	8.5	8.5
0001 - 0600	10.0	10.0	10.0	9.5	9.8	10.0	10.0	10.0	10.0	8.0	8.0	8.0
0601 - 1200	10.0	10.0	10.0	9.5	9.5	9.5	10.0	10.0	10.0	8.0	8.0	8.0
1201 - 1800	10.0	10.0	10.0	10.0	10.2	10.5	10.0	10.3	10.5	8.0	8.3	8.5
1801 - 2400	9.0	9.3	9.5	9.5	9.7	10.0	9.5	9.8	10.0	8.5	8.5	8.5
DAILY VALUE	9.0	9.8	10.0	9.5	9.8	10.5	9.5	10.0	10.5	8.0	8.2	8.5
0001 - 0600	8.5	8.7	9.0	9.0	9.2	9.5	9.5	9.5	9.5	MONTHLY VALUE		
0601 - 1200	8.5	8.7	9.0	9.0	9.0	9.0	9.5	9.5	9.5			
1201 - 1800	9.5	9.5	9.5	9.0	9.3	9.5	10.0	10.0	10.0			
1801 - 2400	9.0	9.3	9.5	9.5	9.5	9.5	9.5	9.8	10.0			
DAILY VALUE	8.5	9.0	9.5	9.0	9.3	9.5	9.5	9.7	10.0	8.0	9.5	11.5

Appendix Table 4-C-7 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.0	8.3	8.5	7.1	7.1	7.1	6.1	6.1	6.1	4.1	4.1	4.1
0601 - 1200	8.0	8.2	8.5	6.6	6.8	7.1	5.6	5.8	6.1	4.1	4.1	4.1
1201 - 1800	8.5	8.8	9.0	7.1	7.4	7.6	5.6	5.6	5.6	4.1	4.1	4.1
1801 - 2400	8.5	8.7	9.0	7.6	7.6	7.6	5.6	5.6	5.6	4.1	4.4	4.6
DAILY VALUE	8.0	8.5	9.0	6.6	7.2	7.6	5.6	5.8	6.1	4.1	4.2	4.6
0001 - 0600	8.0	8.0	8.0	7.1	7.1	7.1	5.6	5.6	5.6	4.6	4.6	4.6
0601 - 1200	8.0	8.2	8.5	7.1	7.1	7.1	5.6	5.6	5.6	4.6	4.6	4.6
1201 - 1800	8.5	8.8	9.0	7.1	7.4	7.6	5.6	5.6	5.6	5.1	5.1	5.1
1801 - 2400	8.5	8.7	9.0	7.1	7.4	7.6	5.6	5.6	5.6	5.1	5.1	5.1
DAILY VALUE	8.0	8.4	9.0	7.1	7.3	7.6	5.6	5.6	5.6	4.6	4.8	5.1
0001 - 0600	8.0	8.3	8.5	7.1	7.1	7.1	6.1	6.1	6.1	4.6	4.6	4.6
0601 - 1200	8.0	8.0	8.0	7.1	7.1	7.1	6.1	6.1	6.1	4.6	4.8	5.1
1201 - 1800	8.0	8.0	8.0	7.1	7.1	7.1	6.1	6.1	6.1	5.1	5.1	5.1
1801 - 2400	8.0	8.0	8.0	6.1	6.6	7.1	6.1	6.1	6.1	4.6	4.9	5.1
DAILY VALUE	8.0	8.1	8.5	6.1	7.0	7.1	6.1	6.1	6.1	4.6	4.8	5.1
0001 - 0600	7.5	7.5	7.5	5.1	5.6	6.1	6.1	6.1	6.1	4.1	4.1	4.1
0601 - 1200	7.5	7.5	7.5	5.1	5.1	5.1	5.6	5.9	6.1	3.6	3.6	3.6
1201 - 1800	8.1	8.1	8.1	5.6	5.6	5.6	5.6	5.6	5.6	3.6	3.6	3.6
1801 - 2400	7.6	7.8	8.1	5.6	5.6	5.6	5.6	5.6	5.6	3.6	3.6	3.6
DAILY VALUE	7.5	7.7	8.1	5.1	5.5	6.1	5.6	5.8	6.1	3.6	3.7	4.1
0001 - 0600	7.1	7.1	7.1	5.1	5.1	5.1	5.6	5.6	5.6	3.6	3.6	3.6
0601 - 1200	7.1	7.1	7.1	5.6	5.6	5.6	5.6	5.6	5.6	3.6	3.9	4.1
1201 - 1800	7.1	7.1	7.1	5.6	5.9	6.1	5.6	5.6	5.6	4.1	4.1	4.1
1801 - 2400	7.1	7.1	7.1	6.1	6.1	6.1	5.6	5.6	5.6	4.1	4.1	4.1
DAILY VALUE	7.1	7.1	7.1	5.1	5.7	6.1	5.6	5.6	5.6	3.6	3.9	4.1
0001 - 0600	7.1	7.1	7.1	6.1	6.1	6.1	5.6	5.6	5.6	4.1	4.1	4.1
0601 - 1200	7.1	7.1	7.1	6.1	6.1	6.1	5.6	5.6	5.6	4.1	4.1	4.1
1201 - 1800	7.1	7.1	7.1	6.1	6.1	6.1	5.6	5.6	5.6	4.6	4.6	4.6
1801 - 2400	7.1	7.1	7.1	6.1	6.1	6.1	5.1	5.3	5.6	4.6	4.6	4.6
DAILY VALUE	7.1	7.1	7.1	6.1	6.1	6.1	5.1	5.5	5.6	4.1	4.3	4.6
0001 - 0600	7.1	7.1	7.1	6.1	6.1	6.1	4.6	4.8	5.1	-----	-----	-----
0601 - 1200	7.1	7.3	7.6	6.1	6.1	6.1	4.1	4.3	4.6	-----	-----	-----
1201 - 1800	8.1	8.4	8.6	6.1	6.4	6.6	4.6	4.9	5.1	-----	-----	-----
1801 - 2400	8.1	8.1	8.1	7.1	7.1	7.1	4.6	4.8	5.1	-----	-----	-----
DAILY VALUE	7.1	7.7	8.6	6.1	6.4	7.1	4.1	4.7	5.1	-----	-----	-----
0001 - 0600	7.6	7.6	7.6	7.1	7.1	7.1	4.1	4.1	4.1	MONTHLY VALUE		
0601 - 1200	7.6	7.6	7.6	6.6	6.8	7.1	3.6	3.9	4.1			
1201 - 1800	7.6	7.6	7.6	6.6	6.6	6.6	4.1	4.1	4.1			
1801 - 2400	7.1	7.3	7.6	6.1	6.3	6.6	4.1	4.1	4.1			
DAILY VALUE	7.1	7.5	7.6	6.1	6.7	7.1	3.6	4.1	4.1			

Appendix Table 4-C-8 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	4.1	4.4	4.6	1.6	1.6	1.6	.1	.1	.1	---	---	---
0601 - 1200	4.1	4.1	4.1	1.6	1.8	2.1	.1	.4	.6	---	---	---
1201 - 1800	4.1	4.1	4.1	2.1	2.1	2.1	.6	.8	1.1	---	---	---
1801 - 2400	4.1	4.1	4.1	2.1	2.1	2.1	.1	.4	.6	---	---	---
DAILY VALUE	4.1	4.2	4.6	1.6	1.9	2.1	.1	.4	1.1	---	---	---
0001 - 0600	4.1	4.1	4.1	2.1	2.1	2.1	.1	.1	.1	---	---	---
0601 - 1200	4.1	4.1	4.1	1.6	1.6	1.6	.1	.1	.1	---	---	---
1201 - 1800	4.1	4.1	4.1	2.1	2.1	2.1	.1	.1	.1	---	---	---
1801 - 2400	4.1	4.1	4.1	1.6	1.9	2.1	.1	.1	.1	---	---	---
DAILY VALUE	4.1	4.1	4.1	1.6	1.9	2.1	.1	.1	.1	---	---	---
0001 - 0600	3.6	3.9	4.1	1.6	1.6	1.6	.1	.1	.1	---	---	---
0601 - 1200	3.6	3.6	3.6	1.6	1.6	1.6	.1	.1	.1	---	---	---
1201 - 1800	4.1	4.1	4.1	1.6	1.6	1.6	.1	.1	.1	---	---	---
1801 - 2400	3.6	3.8	4.1	1.6	1.6	1.6	.1	.1	.1	---	---	---
DAILY VALUE	3.6	3.8	4.1	1.6	1.6	1.6	.1	.1	.1	---	---	---
0001 - 0600	2.6	2.9	3.1	1.1	1.4	1.6	.1	.4	.6	---	---	---
0601 - 1200	2.6	2.6	2.6	1.1	1.1	1.1	.1	.3	.6	---	---	---
1201 - 1800	3.1	3.1	3.1	1.6	1.6	1.6	.6	.8	1.1	---	---	---
1801 - 2400	2.6	2.9	3.1	2.1	2.1	2.1	.1	.1	.1	---	---	---
DAILY VALUE	2.6	2.9	3.1	1.1	1.6	2.1	.1	.4	1.1	---	---	---
0001 - 0600	2.1	2.1	2.1	1.6	1.6	1.6	.1	.1	.1	---	---	---
0601 - 1200	1.6	1.6	1.6	1.1	1.1	1.1	.1	.1	.1	---	---	---
1201 - 1800	2.1	2.1	2.1	1.1	1.1	1.1	.1	.1	.1	---	---	---
1801 - 2400	1.6	1.9	2.1	1.1	1.1	1.1	.1	.1	.1	---	---	---
DAILY VALUE	1.6	1.9	2.1	1.1	1.2	1.6	.1	.1	.1	---	---	---
0001 - 0600	1.1	1.4	1.6	1.1	1.1	1.1	.1	.1	.1	---	---	---
0601 - 1200	1.1	1.1	1.1	.6	.6	.6	.1	.1	.1	---	---	---
1201 - 1800	1.6	1.6	1.6	1.1	1.1	1.1	.1	---	.1	---	---	---
1801 - 2400	1.6	1.6	1.6	.6	.9	1.1	---	---	---	---	---	---
DAILY VALUE	1.1	1.4	1.6	.6	.9	1.1	.1	---	.1	---	---	---
0001 - 0600	1.6	1.6	1.6	.1	.4	.6	---	---	---	---	---	---
0601 - 1200	1.1	1.4	1.6	.1	.1	.1	---	---	---	---	---	---
1201 - 1800	1.1	1.3	1.6	.1	.1	.1	---	---	---	---	---	---
1801 - 2400	1.6	1.6	1.6	.1	.1	.1	---	---	---	---	---	---
DAILY VALUE	1.1	1.5	1.6	.1	.2	.6	---	---	---	---	---	---
0001 - 0600	1.6	1.6	1.6	.1	.1	.1	---	---	---	MONTHLY VALUE		
0601 - 1200	1.6	1.6	1.6	.1	.1	.1	---	---	---			
1201 - 1800	2.1	2.1	2.1	.1	.1	.1	---	---	---			
1801 - 2400	1.6	1.9	2.1	.1	.1	.1	---	---	---	.1	1.5	4.6
DAILY VALUE	1.6	1.8	2.1	.1	.1	.1	---	---	---			

App

Table 4-3

Thermograph data summary, summer surface water temperature (C),
Chulitna River. RM 98.6, TRM .6, Geocode
S26N05W14CBC.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	---	---	---	6.0	6.3	6.5	5.5	5.5	5.5	---	---	---
0601 - 1200	---	---	---	6.0	6.0	6.0	5.5	5.5	5.5	---	---	---
1201 - 1800	---	---	---	5.0	5.5	6.0	5.5	5.5	5.5	---	---	---
1801 - 2400	---	---	---	5.0	5.0	5.0	5.5	5.7	6.0	---	---	---
DAILY VALUE	---	---	---	5.0	5.7	6.5	5.5	5.5	6.0	---	---	---
0001 - 0600	---	---	---	5.0	5.0	5.0	6.0	6.0	6.0	---	---	---
0601 - 1200	---	---	---	5.0	5.0	5.0	6.0	6.0	6.0	---	---	---
1201 - 1800	---	---	---	5.0	5.2	5.5	6.0	6.0	6.0	---	---	---
1801 - 2400	---	---	---	5.5	5.5	5.5	6.0	6.0	6.0	---	---	---
DAILY VALUE	---	---	---	5.0	5.2	5.5	6.0	6.0	6.0	---	---	---
0001 - 0600	---	---	---	5.5	5.5	5.5	6.0	6.0	6.0	---	---	---
0601 - 1200	---	---	---	5.5	5.5	5.5	6.0	6.0	6.0	---	---	---
1201 - 1800	---	---	---	5.5	5.5	5.5	6.0	6.0	6.0	---	---	---
1801 - 2400	---	---	---	5.5	5.5	5.5	6.0	6.0	6.0	---	---	---
DAILY VALUE	---	---	---	5.5	5.5	5.5	6.0	6.0	6.0	---	---	---
0001 - 0600	---	---	---	5.5	5.5	5.5	6.0	6.0	6.0	---	---	---
0601 - 1200	---	---	---	5.5	5.5	5.5	6.0	6.0	6.0	---	---	---
1201 - 1800	---	---	---	5.5	5.5	5.5	6.0	6.0	6.0	---	---	---
1801 - 2400	---	---	---	5.5	5.5	5.5	6.0	6.0	6.0	---	---	---
DAILY VALUE	---	---	---	5.5	5.5	5.5	6.0	6.0	6.0	---	---	---
0001 - 0600	---	---	---	5.5	5.5	5.5	5.0	5.2	5.5	---	---	---
0601 - 1200	---	---	---	5.5	5.5	5.5	5.0	5.3	5.5	---	---	---
1201 - 1800	---	---	---	5.5	5.5	5.5	6.0	6.3	6.5	---	---	---
1801 - 2400	---	---	---	5.5	5.8	6.0	6.5	6.5	6.5	---	---	---
DAILY VALUE	---	---	---	5.5	5.6	6.0	5.0	5.8	6.5	---	---	---
0001 - 0600	---	---	---	6.0	6.0	6.0	6.5	6.5	6.5	---	---	---
0601 - 1200	---	---	---	6.0	6.0	6.0	6.5	6.5	6.5	---	---	---
1201 - 1800	---	---	---	6.0	6.3	6.5	6.5	6.5	6.5	---	---	---
1801 - 2400	---	---	---	7.0	7.0	7.0	6.5	6.5	6.5	---	---	---
DAILY VALUE	---	---	---	6.0	6.3	7.0	6.5	6.5	6.5	---	---	---
0001 - 0600	---	---	---	7.0	7.0	7.0	6.5	6.5	6.5	---	---	---
0601 - 1200	---	---	---	6.5	6.8	7.0	6.5	6.5	6.5	---	---	---
1201 - 1800	---	---	---	6.5	6.5	6.5	6.5	6.5	6.5	---	---	---
1801 - 2400	---	---	---	6.0	6.0	6.0	6.5	6.5	6.5	---	---	---
DAILY VALUE	---	---	---	6.0	6.6	7.0	6.5	6.5	6.5	---	---	---
0001 - 0600	---	---	---	5.5	5.8	6.0	6.5	6.5	6.5	---	---	---
0601 - 1200	---	---	---	5.5	5.5	5.5	6.5	6.7	7.0	MONTHLY VALUE		
1201 - 1800	6.5	6.5	6.5	5.5	5.5	5.5	---	---	---	---	---	---
1801 - 2400	7.0	7.0	7.0	5.5	5.5	5.5	---	---	---	5.0	---	7.0
DAILY VALUE	6.5	---	7.0	5.5	5.6	6.0	6.5	---	7.0	---	---	---

Appendix Table 4 C 5 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	---	---	---	---	---	---	---	---	---	6.5	6.7	7.0
0601 - 1200	---	---	---	---	---	---	---	---	---	7.0	7.0	7.0
1201 - 1800	---	---	---	---	---	---	---	---	---	7.0	7.0	7.0
1801 - 2400	---	---	---	---	---	---	---	---	---	6.5	6.7	7.0
DAILY VALUE	---	---	---	---	---	---	---	---	---	6.5	6.8	7.0
0001 - 0600	---	---	---	---	---	---	---	---	---	6.0	6.3	6.5
0601 - 1200	---	---	---	---	---	---	---	---	---	5.5	5.7	6.0
1201 - 1800	---	---	---	---	---	---	---	---	---	5.5	5.5	5.5
1801 - 2400	---	---	---	---	---	---	---	---	---	5.5	5.5	5.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	5.5	5.7	6.5
0001 - 0600	---	---	---	---	---	---	---	---	---	6.0	6.0	6.0
0601 - 1200	---	---	---	---	---	---	---	---	---	6.0	6.2	6.5
1201 - 1800	---	---	---	---	---	---	---	---	---	6.5	6.5	6.5
1801 - 2400	---	---	---	---	---	---	---	---	---	6.5	6.5	6.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	6.0	6.3	6.5
0001 - 0600	---	---	---	---	---	---	---	---	---	6.5	6.5	6.5
0601 - 1200	---	---	---	---	---	---	---	---	---	6.0	6.3	6.5
1201 - 1800	---	---	---	---	---	---	---	---	---	5.5	5.8	6.0
1801 - 2400	---	---	---	---	---	---	---	---	---	5.5	5.5	5.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	5.5	6.0	6.5
0001 - 0600	---	---	---	---	---	---	---	---	---	5.5	5.5	5.5
0601 - 1200	---	---	---	---	---	---	---	---	---	5.5	5.8	6.0
1201 - 1800	---	---	---	---	---	---	---	---	---	6.0	6.0	6.0
1801 - 2400	---	---	---	---	---	---	---	---	---	6.5	6.5	6.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	5.5	6.0	6.5
0001 - 0600	---	---	---	---	---	---	---	---	---	6.5	6.5	6.5
0601 - 1200	---	---	---	---	---	---	---	---	---	6.5	6.5	6.5
1201 - 1800	---	---	---	---	---	---	---	---	---	6.5	6.5	6.5
1801 - 2400	---	---	---	---	---	---	7.5	7.5	7.5	6.0	6.0	6.0
DAILY VALUE	---	---	---	---	---	---	7.5	---	7.5	6.0	6.4	6.5
0001 - 0600	---	---	---	---	---	---	7.5	7.5	7.5	5.5	5.5	5.5
0601 - 1200	---	---	---	---	---	---	7.5	7.8	8.0	5.5	5.5	5.5
1201 - 1800	---	---	---	---	---	---	7.5	7.5	7.5	5.5	5.8	6.0
1801 - 2400	---	---	---	---	---	---	7.0	7.2	7.5	6.0	6.2	6.5
DAILY VALUE	---	---	---	---	---	---	7.0	7.5	8.0	5.5	5.7	6.5
0001 - 0600	---	---	---	---	---	---	6.5	6.5	6.5	MONTHLY VALUE		
0601 - 1200	---	---	---	---	---	---	6.5	6.5	6.5			
1201 - 1800	---	---	---	---	---	---	6.5	6.5	6.5			
1801 - 2400	---	---	---	---	---	---	6.5	6.5	6.5			
DAILY VALUE	---	---	---	---	---	---	6.5	6.5	6.5	5.5	---	8.0

4-C-25

Appendix Table 4-C-5 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	6.5	6.5	6.5	6.0	6.3	6.5	4.5	5.0	5.5	2.5	2.8	3.0
0601 - 1200	6.5	6.7	7.0	6.0	6.2	6.5	4.5	4.5	4.5	2.5	-----	2.5
1201 - 1800	7.0	7.0	7.0	8.5	-----	8.5	4.5	4.5	4.5	-----	-----	-----
1801 - 2400	7.0	7.0	7.0	6.5	7.0	7.5	4.0	4.3	4.5	-----	-----	-----
DAILY VALUE	6.5	6.8	7.0	6.0	6.7	8.5	4.0	4.6	5.5	2.5	-----	3.0
0001 - 0600	6.5	6.5	6.5	5.5	5.8	6.0	4.0	4.0	4.0	-----	-----	-----
0601 - 1200	5.5	5.7	6.0	5.5	6.2	7.5	4.0	4.0	4.0	-----	-----	-----
1201 - 1800	5.5	5.5	5.5	7.5	7.7	8.0	4.0	4.2	4.5	-----	-----	-----
1801 - 2400	5.5	5.5	5.5	6.5	6.8	7.5	4.5	4.5	4.5	-----	-----	-----
DAILY VALUE	5.5	5.8	6.5	5.5	6.6	8.0	4.0	4.2	4.5	-----	-----	-----
0001 - 0600	5.5	5.5	5.5	6.0	6.0	6.0	4.0	4.2	4.5	-----	-----	-----
0601 - 1200	6.0	6.0	6.0	6.0	6.2	6.5	4.0	4.0	4.0	-----	-----	-----
1201 - 1800	6.0	6.0	6.0	5.5	6.2	6.5	4.0	4.2	4.5	-----	-----	-----
1801 - 2400	6.0	6.0	6.0	4.5	4.8	5.0	4.5	4.5	4.5	-----	-----	-----
DAILY VALUE	5.5	5.9	6.0	4.5	5.8	6.5	4.0	4.2	4.5	-----	-----	-----
0001 - 0600	5.5	5.8	6.0	4.0	4.3	4.5	4.5	4.5	4.5	-----	-----	-----
0601 - 1200	5.5	5.5	5.5	4.0	4.0	4.0	4.5	4.5	4.5	-----	-----	-----
1201 - 1800	6.0	6.0	6.0	4.0	4.2	4.5	4.5	4.5	4.5	-----	-----	-----
1801 - 2400	6.5	6.5	6.5	4.5	4.5	4.5	4.5	4.5	4.5	-----	-----	-----
DAILY VALUE	5.5	6.0	6.5	4.0	4.2	4.5	4.5	4.5	4.5	-----	-----	-----
0001 - 0600	5.5	6.0	6.5	4.5	4.5	4.5	4.0	4.2	4.5	-----	-----	-----
0601 - 1200	5.5	5.5	5.5	4.5	4.5	4.5	4.0	4.0	4.0	-----	-----	-----
1201 - 1800	5.5	5.5	5.5	4.5	4.5	4.5	4.0	4.2	4.5	-----	-----	-----
1801 - 2400	5.5	5.8	6.0	4.5	4.5	4.5	4.5	4.5	4.5	-----	-----	-----
DAILY VALUE	5.5	5.7	6.5	4.5	4.5	4.5	4.0	4.2	4.5	-----	-----	-----
0001 - 0600	5.5	5.8	6.0	4.5	4.5	4.5	4.0	4.0	4.0	-----	-----	-----
0601 - 1200	5.5	5.5	5.5	4.5	4.5	4.5	3.5	3.5	3.5	-----	-----	-----
1201 - 1800	6.0	6.0	6.0	4.5	4.5	4.5	3.5	3.8	4.0	-----	-----	-----
1801 - 2400	6.0	6.0	6.0	4.5	4.5	4.5	4.0	4.0	4.0	-----	-----	-----
DAILY VALUE	5.5	5.8	6.0	4.5	4.5	4.5	3.5	3.8	4.0	-----	-----	-----
0001 - 0600	5.5	5.7	6.0	4.5	4.5	4.5	3.5	3.7	4.0	-----	-----	-----
0601 - 1200	5.5	5.7	6.0	4.5	4.7	5.0	3.0	3.3	3.5	-----	-----	-----
1201 - 1800	6.5	6.5	6.5	5.5	5.5	5.5	3.5	3.5	3.5	-----	-----	-----
1801 - 2400	6.5	6.8	7.0	6.0	6.2	6.5	3.5	3.7	4.0	-----	-----	-----
DAILY VALUE	5.5	6.2	7.0	4.5	5.2	6.5	3.0	3.5	4.0	-----	-----	-----
0001 - 0600	6.0	6.3	6.5	6.0	6.3	6.5	2.5	3.0	3.5	MONTHLY VALUE		
0601 - 1200	5.5	5.8	6.5	6.0	6.0	6.0	2.5	2.5	2.5			
1201 - 1800	6.5	6.8	7.0	6.0	6.0	6.0	2.5	2.5	2.5			
1801 - 2400	6.5	6.8	7.0	5.5	5.8	6.0	3.0	3.0	3.0			
DAILY VALUE	5.5	6.5	7.0	5.5	6.0	6.5	2.5	2.7	3.5	2.5	5.1	8.5

App. Table 4-C-8 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	0.0	0.0	0.0	----	----	----
0601 - 1200	----	----	----	----	----	----	0.0	0.0	0.0	----	----	----
1201 - 1800	----	----	----	1.0	1.2	1.5	0.0	0.0	0.0	----	----	----
1801 - 2400	----	----	----	1.5	1.5	1.5	0.0	0.0	0.0	----	----	----
DAILY VALUE	----	----	----	1.0	----	1.5	0.0	0.0	0.0	----	----	----
0001 - 0600	----	----	----	1.5	1.5	1.5	0.0	0.0	0.0	----	----	----
0601 - 1200	----	----	----	1.5	1.5	1.5	0.0	0.0	0.0	----	----	----
1201 - 1800	----	----	----	1.5	1.5	1.5	0.0	0.0	0.0	----	----	----
1801 - 2400	----	----	----	1.0	1.2	1.5	0.0	0.0	0.0	----	----	----
DAILY VALUE	----	----	----	1.0	1.4	1.5	0.0	0.0	0.0	----	----	----
0001 - 0600	----	----	----	1.0	1.0	1.0	0.0	0.0	0.0	----	----	----
0601 - 1200	----	----	----	1.0	1.0	1.0	0.0	0.0	0.0	----	----	----
1201 - 1800	----	----	----	1.0	1.0	1.0	0.0	0.0	0.0	----	----	----
1801 - 2400	----	----	----	.5	.7	1.0	0.0	0.0	0.0	----	----	----
DAILY VALUE	----	----	----	.5	.9	1.0	0.0	0.0	0.0	----	----	----
0001 - 0600	----	----	----	.5	.5	.5	0.0	0.0	0.0	----	----	----
0601 - 1200	----	----	----	0.0	.2	.5	0.0	0.0	0.0	----	----	----
1201 - 1800	----	----	----	.5	.5	.5	0.0	0.0	0.0	----	----	----
1801 - 2400	----	----	----	.5	.5	.5	0.0	0.0	0.0	----	----	----
DAILY VALUE	----	----	----	0.0	.4	.5	0.0	0.0	0.0	----	----	----
0001 - 0600	----	----	----	.5	.5	.5	0.0	0.0	0.0	----	----	----
0601 - 1200	----	----	----	0.0	0.0	0.0	0.0	0.0	0.0	----	----	----
1201 - 1800	----	----	----	0.0	0.0	0.0	0.0	0.0	0.0	----	----	----
1801 - 2400	----	----	----	0.0	0.0	0.0	0.0	0.0	0.0	----	----	----
DAILY VALUE	----	----	----	0.0	.1	.5	0.0	0.0	0.0	----	----	----
0001 - 0600	----	----	----	0.0	0.0	0.0	0.0	0.0	0.0	----	----	----
0601 - 1200	----	----	----	0.0	0.0	0.0	0.0	0.0	0.0	----	----	----
1201 - 1800	----	----	----	0.0	0.0	0.0	0.0	----	0.0	----	----	----
1801 - 2400	----	----	----	0.0	0.0	0.0	----	----	----	----	----	----
DAILY VALUE	----	----	----	0.0	0.0	0.0	0.0	----	0.0	----	----	----
0001 - 0600	----	----	----	0.0	0.0	0.0	----	----	----	----	----	----
0601 - 1200	----	----	----	0.0	0.0	0.0	----	----	----	----	----	----
1201 - 1800	----	----	----	0.0	0.0	0.0	----	----	----	----	----	----
1801 - 2400	----	----	----	0.0	0.0	0.0	----	----	----	----	----	----
DAILY VALUE	----	----	----	0.0	0.0	0.0	----	----	----	----	----	----
0001 - 0600	----	----	----	0.0	0.0	0.0	----	----	----	MONTHLY VALUE		
0601 - 1200	----	----	----	0.0	0.0	0.0	----	----	----			
1201 - 1800	----	----	----	0.0	0.0	0.0	----	----	----			
1801 - 2400	----	----	----	0.0	0.0	0.0	----	----	----	0.0		
DAILY VALUE	----	----	----	0.0	0.0	0.0	----	----	----	1.5		

Appendix Table 4-9

Thermograph data summary, summer surface water temperature (C),
Talkeetna Fishwheel, RM 103.0, Geocode S27N05W26DDD.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	----	----	----	12.1	12.3	12.6
0601 - 1200	----	----	----	----	----	----	----	----	----	12.1	12.4	13.1
1201 - 1800	----	----	----	----	----	----	----	----	----	13.6	13.8	14.1
1801 - 2400	----	----	----	----	----	----	----	----	----	13.1	13.6	14.1
DAILY VALUE	----	----	----	----	----	----	----	----	----	12.1	13.0	14.1
0001 - 0600	----	----	----	----	----	----	----	----	----	12.6	12.8	13.1
0601 - 1200	----	----	----	----	----	----	----	----	----	12.6	12.8	13.1
1201 - 1800	----	----	----	----	----	----	----	----	----	13.6	13.6	13.6
1801 - 2400	----	----	----	----	----	----	----	----	----	13.6	13.6	13.6
DAILY VALUE	----	----	----	----	----	----	----	----	----	12.6	13.2	13.6
0001 - 0600	----	----	----	----	----	----	----	----	----	12.6	13.1	13.6
0601 - 1200	----	----	----	----	----	----	----	----	----	12.6	12.6	12.6
1201 - 1800	----	----	----	----	----	----	----	----	----	12.6	12.9	13.1
1801 - 2400	----	----	----	----	----	----	----	----	----	12.6	12.6	12.6
DAILY VALUE	----	----	----	----	----	----	----	----	----	12.6	12.8	13.6
0001 - 0600	----	----	----	----	----	----	----	----	----	12.6	12.6	12.6
0601 - 1200	----	----	----	----	----	----	----	----	----	12.6	12.6	12.6
1201 - 1800	----	----	----	----	----	----	----	----	----	12.6	12.6	12.6
1801 - 2400	----	----	----	----	----	----	----	----	----	12.6	12.6	12.6
DAILY VALUE	----	----	----	----	----	----	----	----	----	12.6	12.6	12.6
0001 - 0600	----	----	----	----	----	----	----	----	----	12.1	12.1	12.1
0601 - 1200	----	----	----	----	----	----	----	----	----	11.6	11.6	11.6
1201 - 1800	----	----	----	----	----	----	----	----	----	12.1	12.1	12.1
1801 - 2400	----	----	----	----	----	----	----	----	----	12.1	12.1	12.1
DAILY VALUE	----	----	----	----	----	----	----	----	----	11.6	12.0	12.1
0001 - 0600	----	----	----	----	----	----	----	----	----	11.1	11.4	11.6
0601 - 1200	----	----	----	----	----	----	----	----	----	11.1	11.4	11.6
1201 - 1800	----	----	----	----	----	----	----	----	----	11.6	11.9	12.1
1801 - 2400	----	----	----	----	----	----	----	----	----	11.1	11.4	11.6
DAILY VALUE	----	----	----	----	----	----	----	----	----	11.1	11.6	12.1
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	12.6	12.9	13.1	MONTHLY VALUE		
1801 - 2400	----	----	----	----	----	----	12.6	12.9	13.1	11.1	----	14.1
DAILY VALUE	----	----	----	----	----	----	12.6	----	13.1	----	----	----

Table 4-C 9 Cont.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	10.6	10.8	11.1	12.4	12.6	12.9	9.9	9.9	9.9	9.4	9.4	9.4
0601 - 1200	10.6	10.8	11.1	12.4	12.9	13.4	9.4	9.9	10.4	9.4	9.4	9.4
1201 - 1800	11.1	11.3	11.6	13.9	13.9	13.9	10.9	11.2	11.4	9.4	9.4	9.4
1801 - 2400	10.1	10.6	11.1	13.9	13.9	13.9	10.4	10.7	11.4	9.4	9.4	9.4
DAILY VALUE	10.1	10.8	11.6	12.4	13.3	13.9	9.4	10.4	11.4	9.4	9.4	9.4
0001 - 0600	9.6	9.9	10.1	12.9	13.1	13.4	10.4	10.4	10.4	8.9	9.1	9.4
0601 - 1200	9.6	9.9	10.1	12.4	12.6	12.9	10.4	10.4	10.4	8.9	9.1	9.4
1201 - 1800	10.6	10.9	11.1	11.9	12.1	12.4	10.9	10.9	10.9	9.9	9.9	9.9
1801 - 2400	10.6	10.9	11.1	11.4	11.7	11.9	10.4	10.6	10.9	9.4	9.6	9.9
DAILY VALUE	9.6	10.4	11.1	11.4	12.4	13.4	10.4	10.6	10.9	8.9	9.4	9.9
0001 - 0600	8.6	9.3	10.1	11.4	11.4	11.4	9.9	9.9	9.9	9.4	9.6	9.9
0601 - 1200	-----	-----	-----	11.4	11.4	11.4	10.4	11.2	11.9	9.9	10.2	10.4
1201 - 1800	-----	-----	-----	11.4	11.4	11.4	12.4	12.7	12.9	10.9	10.9	10.9
1801 - 2400	-----	-----	-----	10.9	11.1	11.4	11.9	12.1	12.4	10.4	10.4	10.4
DAILY VALUE	8.6	-----	10.1	10.9	11.3	11.4	9.9	11.5	12.9	9.4	10.3	10.9
0001 - 0600	-----	-----	-----	10.4	10.4	10.4	11.4	11.6	11.9	10.4	10.4	10.4
0601 - 1200	-----	-----	-----	10.4	10.7	10.9	11.9	12.6	13.4	10.4	11.1	11.9
1201 - 1800	-----	-----	-----	10.9	11.2	11.4	13.9	14.1	14.4	12.4	12.4	12.4
1801 - 2400	-----	-----	-----	10.9	11.1	11.4	13.4	13.7	13.9	11.9	11.9	11.9
DAILY VALUE	-----	-----	-----	10.4	10.9	11.4	11.4	13.0	14.4	10.4	11.4	12.4
0001 - 0600	-----	-----	-----	10.9	10.9	10.9	12.9	13.1	13.4	11.9	11.9	11.9
0601 - 1200	-----	-----	-----	10.9	11.1	11.4	12.9	13.2	13.4	11.9	11.9	11.9
1201 - 1800	-----	-----	-----	11.9	11.9	11.9	12.9	13.2	13.4	11.9	12.1	12.4
1801 - 2400	-----	-----	-----	11.4	11.6	11.9	12.4	12.6	12.9	11.4	11.6	11.9
DAILY VALUE	-----	-----	-----	10.9	11.4	11.9	12.4	13.0	13.4	11.4	11.9	12.4
0001 - 0600	-----	-----	-----	10.9	10.9	10.9	11.9	12.1	12.4	10.9	11.2	11.4
0601 - 1200	-----	-----	-----	11.4	11.4	11.4	11.9	12.2	12.4	10.9	10.9	10.9
1201 - 1800	-----	-----	-----	11.4	11.7	11.9	12.4	12.4	12.4	10.9	10.9	10.9
1801 - 2400	-----	-----	-----	11.4	11.4	11.4	11.9	11.9	11.9	10.4	10.6	10.9
DAILY VALUE	-----	-----	-----	10.9	11.4	11.9	11.9	12.1	12.4	10.4	10.9	11.4
0001 - 0600	-----	-----	-----	10.9	10.9	10.9	10.9	11.1	11.4	9.9	9.9	9.9
0601 - 1200	-----	-----	-----	10.4	10.7	10.9	10.9	10.9	10.9	9.9	10.4	10.9
1201 - 1800	14.9	14.9	14.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	11.2	11.4
1801 - 2400	13.4	13.9	14.4	10.9	10.9	10.9	10.4	10.4	10.4	10.4	10.4	10.4
DAILY VALUE	13.4	-----	14.9	10.4	10.9	10.9	10.4	10.8	11.4	9.9	10.5	11.4
0001 - 0600	12.4	12.7	12.9	10.4	10.4	10.4	9.9	9.9	9.9	MONTHLY VALUE		
0601 - 1200	12.9	13.2	13.4	10.4	10.4	10.4	9.9	9.9	9.9			
1201 - 1800	13.9	13.9	13.9	10.9	10.9	10.9	9.9	9.9	9.9			
1801 - 2400	12.9	13.2	13.4	10.4	10.6	10.9	9.9	9.9	9.9			
DAILY VALUE	12.4	13.3	13.9	10.4	10.6	10.9	9.9	9.9	9.9			

App. 4 Table 4-C-4 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	9.9	10.1	10.4	10.9	11.1	11.4	10.4	10.7	10.9	11.4	11.7	11.9
0601 - 1200	9.9	10.4	10.9	10.4	10.6	10.9	10.4	10.4	10.4	11.4	11.4	11.4
1201 - 1800	11.4	11.4	11.4	10.4	10.4	10.4	10.4	10.7	10.9	11.4	11.7	11.9
1801 - 2400	10.4	10.9	11.4	9.9	10.2	10.4	10.4	10.7	10.9	11.9	11.9	11.9
DAILY VALUE	9.9	10.7	11.4	9.9	10.6	11.4	10.4	10.6	10.9	11.4	11.7	11.9
0001 - 0600	9.9	10.2	10.4	9.4	9.7	9.9	9.9	10.1	10.4	10.9	11.1	11.4
0601 - 1200	9.9	10.6	11.4	9.4	9.4	9.4	9.9	9.9	9.9	10.9	11.1	11.4
1201 - 1800	11.4	11.7	11.9	9.9	9.9	9.9	10.4	10.6	10.9	11.9	12.2	12.4
1801 - 2400	10.9	11.4	11.9	9.9	9.9	9.9	10.4	10.4	10.4	10.9	11.2	11.4
DAILY VALUE	9.9	11.0	11.9	9.4	9.7	9.9	9.9	10.2	10.9	10.9	11.4	12.4
0001 - 0600	10.4	10.6	10.9	9.4	9.4	9.4	9.9	10.1	10.4	9.9	10.4	10.9
0601 - 1200	10.4	10.9	11.4	9.4	9.6	9.9	9.9	10.1	10.4	9.9	10.1	10.4
1201 - 1800	12.4	12.4	12.4	10.4	10.9	11.4	10.9	11.2	11.4	10.9	11.2	11.4
1801 - 2400	11.4	11.9	12.4	10.9	11.1	11.4	10.9	11.1	11.4	10.9	11.2	11.4
DAILY VALUE	10.4	11.4	12.4	9.4	10.2	11.4	9.9	10.6	11.4	9.9	10.7	11.4
0001 - 0600	10.9	10.9	10.9	9.4	9.9	10.4	9.9	10.1	10.4	9.9	10.1	10.4
0601 - 1200	10.9	11.4	11.9	9.4	9.6	9.9	9.9	10.2	10.9	9.4	9.7	9.9
1201 - 1800	-----	-----	-----	10.9	11.2	11.4	11.4	12.1	12.4	10.4	10.7	10.9
1801 - 2400	12.4	12.9	13.4	10.9	11.4	11.9	11.9	12.2	12.4	10.9	10.9	10.9
DAILY VALUE	10.9	11.7	13.4	9.4	10.5	11.9	9.9	11.1	12.4	9.4	10.4	10.9
0001 - 0600	10.9	11.4	11.9	9.9	10.4	10.9	10.9	11.4	11.9	9.9	10.2	10.4
0601 - 1200	10.9	11.4	11.9	9.9	10.4	10.9	10.9	11.1	11.4	9.9	9.9	9.9
1201 - 1800	12.4	12.9	13.4	11.9	12.4	12.9	12.4	12.7	12.9	9.9	10.2	10.4
1801 - 2400	12.4	12.9	13.4	12.4	12.7	12.9	12.4	12.7	12.9	9.9	10.2	10.4
DAILY VALUE	10.9	12.1	13.4	9.9	11.5	12.9	10.9	12.0	12.9	9.9	10.1	10.4
0001 - 0600	10.9	11.4	11.9	11.9	12.1	12.4	10.9	11.4	11.9	9.9	9.9	9.9
0601 - 1200	10.9	11.4	11.9	11.4	11.6	11.9	10.9	11.1	11.4	9.4	9.4	9.4
1201 - 1800	12.4	12.9	13.4	11.9	12.2	12.4	11.9	12.2	12.4	9.4	9.4	9.4
1801 - 2400	12.4	12.7	12.9	11.9	12.2	12.4	12.4	12.4	12.4	9.4	9.4	9.4
DAILY VALUE	10.9	12.1	13.4	11.4	12.0	12.4	10.9	11.8	12.4	9.4	9.5	9.9
0001 - 0600	11.4	11.6	11.9	11.4	11.7	11.9	11.9	11.9	11.9	8.9	8.9	8.9
0601 - 1200	11.4	11.6	11.9	11.4	11.4	11.4	11.4	11.6	11.9	8.9	8.9	8.9
1201 - 1800	11.9	11.9	11.9	11.9	12.2	12.4	11.9	12.2	12.4	8.9	8.9	8.9
1801 - 2400	11.4	11.7	11.9	11.9	12.1	12.4	11.9	12.2	12.4	8.9	8.9	8.9
DAILY VALUE	11.4	11.7	11.9	11.4	11.9	12.4	11.4	12.0	12.4	8.9	8.9	8.9
0001 - 0600	10.4	10.9	11.4	10.9	11.4	11.9	11.4	11.7	11.9	MONTHLY VALUE		
0601 - 1200	10.9	11.1	11.4	10.9	11.1	11.4	11.4	11.6	11.9			
1201 - 1800	11.9	11.9	11.9	11.9	12.2	12.4	11.9	12.1	12.4	8.9 11.1 13.4		
1801 - 2400	11.4	11.7	11.9	11.9	12.1	12.4	11.9	11.9	11.9			
DAILY VALUE	10.4	11.4	11.9	10.9	11.7	12.4	11.4	11.8	12.4			

Table 4-C-9 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.4	8.7	8.9	8.4	8.7	8.9	----	----	----	4.4	4.6	4.9
0601 - 1200	8.4	8.6	8.9	8.4	8.4	8.4	----	----	----	4.4	4.4	4.4
1201 - 1800	9.4	9.7	9.9	8.4	8.7	8.9	----	----	----	4.9	4.9	4.9
1801 - 2400	8.9	9.1	9.4	8.4	8.6	8.9	----	----	----	4.9	4.9	4.9
DAILY VALUE	8.4	9.0	9.9	8.4	8.6	8.9	----	----	----	4.4	4.7	4.9
0001 - 0600	8.4	8.6	8.9	7.9	8.1	8.4	----	----	----	4.9	4.9	4.9
0601 - 1200	8.4	8.6	8.9	7.9	7.9	7.9	----	----	----	4.9	4.9	4.9
1201 - 1800	8.9	8.9	8.9	8.4	8.4	8.4	----	----	----	4.9	4.9	4.9
1801 - 2400	8.9	8.9	8.9	7.9	8.1	8.4	----	----	----	4.9	4.9	4.9
DAILY VALUE	8.4	8.7	8.9	7.9	8.1	8.4	----	----	----	4.9	4.9	4.9
0001 - 0600	8.4	8.7	8.9	7.4	7.7	7.9	----	----	----	4.9	4.9	4.9
0601 - 1200	8.4	8.4	8.4	7.4	7.4	7.4	----	----	----	4.9	4.9	4.9
1201 - 1800	8.4	8.7	8.9	7.4	7.4	7.4	----	----	----	5.4	5.4	5.4
1801 - 2400	8.9	8.9	8.9	6.9	7.1	7.4	----	----	----	5.4	5.4	5.4
DAILY VALUE	8.4	8.7	8.9	6.9	7.4	7.9	----	----	----	4.9	5.1	5.4
0001 - 0600	8.4	8.4	8.4	5.9	6.2	6.4	----	----	----	4.9	4.9	4.9
0601 - 1200	7.9	8.2	8.4	5.9	6.1	6.4	----	----	----	4.4	4.4	4.4
1201 - 1800	8.9	9.1	9.4	6.9	6.9	6.9	----	----	----	4.4	4.7	4.9
1801 - 2400	8.4	8.7	8.9	6.9	6.9	6.9	----	----	----	4.9	4.9	4.9
DAILY VALUE	7.9	8.6	9.4	5.9	6.5	6.9	----	----	----	4.4	4.7	4.9
0001 - 0600	7.9	8.1	8.4	6.4	6.4	6.4	----	----	----	4.4	4.7	4.9
0601 - 1200	7.9	7.9	7.9	6.4	6.4	6.4	----	----	----	4.4	4.4	4.4
1201 - 1800	7.9	8.2	8.4	6.4	6.4	6.4	----	----	----	4.9	4.9	4.9
1801 - 2400	8.4	8.4	8.4	6.4	6.4	6.4	----	----	----	4.9	4.9	4.9
DAILY VALUE	7.9	8.1	8.4	6.4	6.4	6.4	----	----	----	4.4	4.7	4.9
0001 - 0600	7.9	8.1	8.4	6.4	6.4	6.4	----	----	----	4.9	4.9	4.9
0601 - 1200	7.9	7.9	7.9	6.4	6.6	6.9	----	----	----	4.9	4.9	4.9
1201 - 1800	8.4	8.4	8.4	6.9	6.9	6.9	6.9	6.9	6.9	4.9	4.9	4.9
1801 - 2400	8.4	8.4	8.4	6.9	6.9	6.9	6.4	6.6	6.9	4.9	4.9	4.9
DAILY VALUE	7.9	8.2	8.4	6.4	6.7	6.9	6.4	----	6.9	4.9	4.9	4.9
0001 - 0600	8.4	8.4	8.4	6.9	6.9	6.9	5.9	5.9	5.9	----	----	----
0601 - 1200	8.4	8.4	8.4	6.9	6.9	6.9	5.9	5.9	5.9	----	----	----
1201 - 1800	8.9	9.2	9.4	7.4	7.4	7.4	5.9	6.2	6.4	----	----	----
1801 - 2400	9.4	9.4	9.4	7.4	7.4	7.4	5.4	5.7	5.9	----	----	----
DAILY VALUE	8.4	8.9	9.4	6.9	7.1	7.4	5.4	5.9	6.4	----	----	----
0001 - 0600	8.9	9.1	9.4	7.4	7.6	7.9	4.4	4.7	4.9	MONTHLY VALUE		
0601 - 1200	8.9	8.9	8.9	7.4	7.7	7.9	4.4	4.6	4.9			
1201 - 1800	8.9	8.9	8.9	----	----	----	4.9	4.9	4.9			
1801 - 2400	8.9	8.9	8.9	----	----	----	4.9	4.9	4.9			
DAILY VALUE	8.9	8.9	9.4	7.4	----	7.9	4.4	4.8	4.9	4.4	7.0	9.9

Table 4-1 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	4.9	4.9	4.9	.9	.9	.9	.2	.2	.2	.2	.2	.2
0601 - 1200	4.4	4.4	4.4	.9	.9	.9	.2	.2	.2	.2	.2	.2
1201 - 1800	4.9	4.9	4.9	.9	.9	.9	.2	.2	.2	.2	.2	.2
1801 - 2400	4.4	4.7	4.9	.9	.9	.9	.2	.2	.2	.2	.2	.2
DAILY VALUE	4.4	4.7	4.9	.9	.9	.9	.2	.2	.2	.2	.2	.2
0001 - 0600	3.9	4.2	4.4	-----	-----	-----	.2	.2	.2	.2	.2	.2
0601 - 1200	3.9	3.9	3.9	1.2	-----	1.2	.2	.2	.2	.2	.2	.2
1201 - 1800	4.4	4.4	4.4	1.2	1.2	1.2	.2	.2	.2	.2	-----	.2
1801 - 2400	4.4	4.4	4.4	.7	1.0	1.2	.2	.2	.2	-----	-----	-----
DAILY VALUE	3.9	4.2	4.4	.7	-----	1.2	.2	.2	.2	.2	-----	.2
0001 - 0600	3.9	4.1	4.4	.7	.7	.7	.2	.2	.2	-----	-----	-----
0601 - 1200	3.9	3.9	3.9	.7	.7	.7	.2	.2	.2	-----	-----	-----
1201 - 1800	4.4	4.4	4.4	.7	.7	.7	.2	.2	.2	-----	-----	-----
1801 - 2400	3.9	4.2	4.4	.7	.7	.7	.2	.2	.2	-----	-----	-----
DAILY VALUE	3.9	4.1	4.4	.7	.7	.7	.2	.2	.2	-----	-----	-----
0001 - 0600	3.4	3.7	3.9	.2	.5	.7	.2	.2	.2	-----	-----	-----
0601 - 1200	2.9	2.9	2.9	.2	.2	.2	.2	.2	.2	-----	-----	-----
1201 - 1800	2.9	3.2	3.4	.7	.7	.7	.2	.2	.2	-----	-----	-----
1801 - 2400	2.9	3.2	3.4	.7	.7	.7	.2	.2	.2	-----	-----	-----
DAILY VALUE	2.9	3.3	3.9	.2	.5	.7	.2	.2	.2	-----	-----	-----
0001 - 0600	2.4	2.7	2.9	.2	.5	.7	.2	.2	.2	-----	-----	-----
0601 - 1200	1.9	1.9	1.9	.2	.2	.2	.2	.2	.2	-----	-----	-----
1201 - 1800	2.9	2.9	2.9	.2	.2	.2	.2	.2	.2	-----	-----	-----
1801 - 2400	2.4	2.6	2.9	.2	.2	.2	.2	.2	.2	-----	-----	-----
DAILY VALUE	1.9	2.5	2.9	.2	.3	.7	.2	.2	.2	-----	-----	-----
0001 - 0600	1.9	2.1	2.4	.2	.2	.2	.2	.2	.2	-----	-----	-----
0601 - 1200	1.4	1.4	1.4	.2	.2	.2	.2	.2	.2	-----	-----	-----
1201 - 1800	1.9	1.9	1.9	.2	.2	.2	.2	.2	.2	-----	-----	-----
1801 - 2400	1.9	1.9	1.9	.2	.2	.2	.2	.2	.2	-----	-----	-----
DAILY VALUE	1.4	1.8	2.4	.2	.2	.2	.2	.2	.2	-----	-----	-----
0001 - 0600	1.9	1.9	1.9	.2	.2	.2	.2	.2	.2	-----	-----	-----
0601 - 1200	1.4	1.6	1.9	.2	.2	.2	.2	.2	.2	-----	-----	-----
1201 - 1800	1.4	1.4	1.4	.2	.2	.2	.2	.2	.2	-----	-----	-----
1801 - 2400	1.4	1.4	1.4	.2	.2	.2	.2	.2	.2	-----	-----	-----
DAILY VALUE	1.4	1.6	1.9	.2	.2	.2	.2	.2	.2	-----	-----	-----
0001 - 0600	1.4	1.4	1.4	.2	.2	.2	.2	.2	.2	-----	-----	-----
0601 - 1200	1.4	1.4	1.4	.2	.2	.2	.2	.2	.2	MONTHLY VALUE		
1201 - 1800	1.4	1.4	1.4	.2	.2	.2	.2	.2	.2			
1801 - 2400	.9	1.1	1.4	.2	.2	.2	.2	.2	.2	.2	1.2	4.9
DAILY VALUE	.9	1.3	1.4	.2	.2	.2	.2	.2	.2			

Table 4-c 15 Thermograph data summary, summer surface water temperature (C),
LRX 18, RM 113.0, Geocode S28N04W12DAB.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	13.7	13.7	13.7	10.2	10.4	10.7	9.2	9.2	9.2
0601 - 1200	----	----	----	13.7	13.7	13.7	10.2	10.2	10.2	9.2	9.2	9.2
1201 - 1800	----	----	----	14.2	14.5	14.7	10.7	11.2	11.7	9.2	9.2	9.2
1801 - 2400	----	----	----	14.2	14.5	14.7	11.2	11.4	11.7	9.2	9.2	9.2
DAILY VALUE	----	----	----	13.7	14.1	14.7	10.2	10.8	11.7	9.2	9.2	9.2
0001 - 0600	----	----	----	13.2	13.5	13.7	10.7	10.9	11.2	8.7	9.0	9.2
0601 - 1200	----	----	----	12.7	13.0	13.2	10.7	10.9	11.2	8.7	9.0	9.2
1201 - 1800	----	----	----	12.7	12.7	12.7	11.2	11.2	11.2	9.2	9.5	9.7
1801 - 2400	----	----	----	12.2	12.4	12.7	11.2	11.2	11.2	9.2	9.4	9.7
DAILY VALUE	----	----	----	12.2	12.9	13.7	10.7	11.0	11.2	8.7	9.2	9.7
0001 - 0600	----	----	----	11.7	12.0	12.2	10.7	10.7	10.7	9.2	9.5	9.7
0601 - 1200	----	----	----	11.7	11.7	11.7	10.7	11.2	11.7	9.7	9.7	9.7
1201 - 1800	----	----	----	11.7	11.9	12.2	12.2	12.5	12.7	10.2	10.2	10.2
1801 - 2400	----	----	----	11.2	11.5	11.7	12.2	12.5	12.7	10.2	10.2	10.2
DAILY VALUE	----	----	----	11.2	11.8	12.2	10.7	11.7	12.7	9.2	9.9	10.2
0001 - 0600	----	----	----	10.7	11.0	11.2	12.2	12.2	12.2	9.7	10.0	10.2
0601 - 1200	----	----	----	11.2	11.2	11.2	12.2	12.4	12.7	10.2	10.4	10.7
1201 - 1800	----	----	----	11.7	11.7	11.7	13.7	14.0	14.2	11.2	11.5	11.7
1801 - 2400	----	----	----	11.2	11.5	11.7	13.7	14.0	14.2	11.7	11.7	11.7
DAILY VALUE	----	----	----	10.7	11.4	11.7	12.2	13.2	14.2	9.7	10.9	11.7
0001 - 0600	----	----	----	11.2	11.2	11.2	13.7	13.7	13.7	11.2	11.5	11.7
0601 - 1200	----	----	----	11.2	11.4	11.7	13.7	13.7	13.7	11.7	11.7	11.7
1201 - 1800	----	----	----	11.7	12.0	12.2	13.2	13.5	13.7	11.7	11.7	11.7
1801 - 2400	----	----	----	11.7	11.9	12.2	12.7	13.0	13.2	11.2	11.4	11.7
DAILY VALUE	----	----	----	11.2	11.6	12.2	12.7	13.5	13.7	11.2	11.6	11.7
0001 - 0600	----	----	----	11.7	11.7	11.7	12.2	12.4	12.7	10.7	11.0	11.2
0601 - 1200	----	----	----	11.7	11.7	11.7	12.2	12.2	12.2	10.7	10.7	10.7
1201 - 1800	----	----	----	11.7	12.0	12.2	12.7	12.7	12.7	10.7	10.7	10.7
1801 - 2400	----	----	----	11.7	11.9	12.2	12.2	12.2	12.2	10.2	10.2	10.2
DAILY VALUE	----	----	----	11.7	11.8	12.2	12.2	12.4	12.7	10.2	10.7	11.2
0001 - 0600	----	----	----	11.2	11.4	11.7	11.2	11.4	11.7	9.7	9.7	9.7
0601 - 1200	----	----	----	11.2	11.2	11.2	10.7	10.7	10.7	9.7	9.9	10.2
1201 - 1800	----	----	----	11.7	11.7	11.7	10.7	10.7	10.7	10.2	10.4	10.5
1801 - 2400	14.2	14.7	15.2	11.2	11.4	11.7	10.2	10.4	10.7	9.5	9.8	10.0
DAILY VALUE	14.2	----	15.2	11.2	11.4	11.7	10.2	10.8	11.7	9.5	9.9	10.5
0001 - 0600	13.2	13.4	13.7	10.7	10.9	11.2	9.7	9.9	10.2	MONTHLY VALUE		
0601 - 1200	13.2	13.7	14.2	10.7	10.9	11.2	9.7	9.7	9.7			
1201 - 1800	14.2	14.2	14.2	11.2	11.2	11.2	9.7	9.9	10.2	8.7 11.5 15.2		
1801 - 2400	13.7	14.0	14.2	10.7	11.0	11.2	9.7	9.7	9.7			
DAILY VALUE	13.2	13.8	14.2	10.7	11.0	11.2	9.7	9.8	10.2			

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Table 4-1 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	9.0	9.3	9.5	10.0	10.2	10.5	10.0	10.0	10.0	10.8	10.8	10.8
0601 - 1200	9.0	9.2	9.5	10.0	10.0	10.0	10.0	10.0	10.0	10.8	10.8	10.8
1201 - 1800	10.0	10.3	10.5	10.0	10.0	10.0	10.3	10.3	10.3	10.8	11.1	11.3
1801 - 2400	9.5	10.0	10.5	9.5	9.8	10.0	9.8	10.0	10.3	10.3	10.8	11.3
DAILY VALUE	9.0	9.7	10.5	9.5	10.0	10.5	9.8	10.1	10.3	10.3	10.9	11.3
0001 - 0600	9.0	9.2	9.5	9.0	9.3	9.5	8.8	9.1	9.3	10.3	10.3	10.3
0601 - 1200	9.0	9.5	10.0	9.0	9.2	9.5	8.8	9.1	9.3	10.3	10.3	10.3
1201 - 1800	10.5	10.5	10.5	9.5	9.5	9.5	9.8	9.8	9.8	10.8	11.1	11.3
1801 - 2400	10.0	10.3	10.5	9.5	9.5	9.5	9.3	9.6	9.8	10.3	10.8	11.3
DAILY VALUE	9.0	9.9	10.5	9.0	9.4	9.5	8.8	9.4	9.8	10.3	10.6	11.3
0001 - 0600	9.5	9.5	9.5	9.0	9.0	9.0	9.3	9.3	9.3	9.3	9.5	9.8
0601 - 1200	9.5	9.8	10.0	9.0	9.2	9.5	9.3	9.5	9.8	8.8	9.3	9.8
1201 - 1800	10.5	10.8	11.0	10.0	10.3	10.5	10.3	10.6	10.8	10.3	10.6	10.8
1801 - 2400	10.5	10.7	11.0	9.5	10.0	10.5	9.8	10.0	10.3	9.3	9.8	10.3
DAILY VALUE	9.5	10.2	11.0	9.0	9.6	10.5	9.3	9.8	10.8	8.8	9.8	10.8
0001 - 0600	9.5	9.7	10.0	9.0	9.2	9.5	9.3	9.3	9.3	8.8	9.0	9.3
0601 - 1200	9.5	10.0	10.5	9.0	9.2	9.5	9.3	9.6	10.3	8.8	9.1	9.3
1201 - 1800	11.0	11.5	12.0	10.0	10.5	11.0	10.8	11.3	11.8	9.8	10.1	10.3
1801 - 2400	11.0	11.3	11.5	10.0	10.3	10.5	10.8	11.3	11.8	9.8	10.0	10.3
DAILY VALUE	9.5	10.6	12.0	9.0	9.8	11.0	9.3	10.4	11.8	8.8	9.5	10.3
0001 - 0600	10.5	10.5	10.5	9.5	9.7	10.0	9.8	10.1	10.3	9.3	9.3	9.3
0601 - 1200	10.5	10.7	11.0	9.5	10.0	10.5	9.8	10.3	10.8	9.3	9.3	9.3
1201 - 1800	11.5	11.8	12.0	11.0	11.7	12.0	11.3	11.6	11.8	9.7	9.7	9.7
1801 - 2400	11.0	11.5	12.0	11.5	11.7	12.0	11.3	11.5	11.8	9.7	9.7	9.7
DAILY VALUE	10.5	11.1	12.0	9.5	10.7	12.0	9.8	10.9	11.8	9.3	9.5	9.7
0001 - 0600	10.5	10.5	10.5	11.0	11.0	11.0	9.8	10.1	10.3	9.2	9.2	9.2
0601 - 1200	10.5	10.8	11.5	11.0	11.0	11.0	9.8	10.1	10.3	9.2	9.2	9.2
1201 - 1800	11.5	11.8	12.0	11.5	11.5	11.5	11.3	11.6	11.8	9.2	9.2	9.2
1801 - 2400	11.5	11.7	12.0	11.0	11.3	11.5	11.3	11.5	11.8	9.2	9.2	9.2
DAILY VALUE	10.5	11.2	12.0	11.0	11.2	11.5	9.8	10.8	11.8	9.2	9.2	9.2
0001 - 0600	10.5	10.7	11.0	10.5	10.8	11.0	10.8	10.8	10.8	8.2	8.5	8.7
0601 - 1200	10.5	10.8	11.0	10.5	10.7	11.0	10.8	11.0	11.3	8.2	8.2	8.2
1201 - 1800	11.0	11.3	11.5	11.5	11.5	11.5	11.3	11.3	11.3	8.2	8.5	8.7
1801 - 2400	10.5	10.8	11.0	11.0	11.3	11.5	11.3	11.3	11.3	8.2	8.4	8.7
DAILY VALUE	10.5	10.9	11.5	10.5	11.1	11.5	10.8	11.1	11.3	8.2	8.4	8.7
0001 - 0600	10.0	10.3	10.5	10.5	10.5	10.5	10.8	10.8	10.8	MONTHLY VALUE		
0601 - 1200	10.0	10.3	10.5	10.5	10.7	11.0	10.8	10.8	10.8			
1201 - 1800	11.5	11.5	11.5	11.0	11.3	11.5	11.3	11.3	11.3	8.2 10.3 12.0		
1801 - 2400	10.5	10.8	11.0	10.5	10.7	11.0	11.3	11.3	11.3			
DAILY VALUE	10.0	10.7	11.5	10.5	10.8	11.5	10.8	11.0	11.3			

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Table 4-C-10 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.2	8.2	8.2	8.2	8.2	8.2	7.2	7.2	7.2	4.0	4.3	4.5
0601 - 1200	8.2	8.2	8.2	7.7	7.7	7.7	7.2	7.2	7.2	4.0	4.2	4.5
1201 - 1800	8.7	8.7	8.7	7.7	8.0	8.2	7.2	7.5	8.0	4.5	4.5	4.5
1801 - 2400	8.7	8.7	8.7	8.2	8.2	8.2	7.0	7.3	7.5	4.5	4.5	4.5
DAILY VALUE	8.2	8.4	8.7	7.7	8.0	8.2	7.0	7.3	8.0	4.0	4.4	4.5
0001 - 0600	8.2	8.2	8.2	7.7	7.7	7.7	7.0	7.0	7.0	4.5	4.5	4.5
0601 - 1200	8.2	8.2	8.2	7.7	7.7	7.7	7.0	7.0	7.0	4.5	4.5	4.5
1201 - 1800	8.2	8.4	8.7	7.7	7.7	7.7	7.0	7.0	7.0	4.5	4.8	5.0
1801 - 2400	8.2	8.5	8.7	7.7	7.7	7.7	6.5	6.7	7.0	5.0	5.0	5.0
DAILY VALUE	8.2	8.3	8.7	7.7	7.7	7.7	6.5	6.9	7.0	4.5	4.7	5.0
0001 - 0600	8.2	8.2	8.2	7.2	7.5	7.7	6.5	6.5	6.5	5.0	5.0	5.0
0601 - 1200	7.7	8.0	8.2	7.2	7.2	7.2	6.5	6.7	7.0	5.0	5.0	5.0
1201 - 1800	8.2	8.2	8.2	7.2	7.2	7.2	7.0	7.0	7.0	5.0	5.3	5.5
1801 - 2400	8.2	8.2	8.2	6.7	7.0	7.2	6.5	6.8	7.0	5.0	5.2	5.5
DAILY VALUE	7.7	8.2	8.2	6.7	7.2	7.7	6.5	6.7	7.0	5.0	5.1	5.5
0001 - 0600	7.7	7.9	8.2	6.2	6.4	6.7	6.5	6.5	6.5	4.5	4.5	4.5
0601 - 1200	7.7	7.7	7.7	5.7	5.7	5.7	6.5	6.5	6.5	4.0	4.3	4.5
1201 - 1800	7.7	8.0	8.2	6.2	6.2	6.2	7.0	7.0	7.0	4.5	4.5	4.5
1801 - 2400	7.7	8.0	8.2	6.2	6.2	6.2	6.5	6.7	7.0	4.5	4.5	4.5
DAILY VALUE	7.7	7.9	8.2	5.7	6.1	6.7	6.5	6.7	7.0	4.0	4.5	4.5
0001 - 0600	7.2	7.5	7.7	6.2	6.2	6.2	6.5	6.5	6.5	4.5	4.5	4.5
0601 - 1200	7.2	7.2	7.2	6.2	6.2	6.2	6.5	6.5	6.5	4.5	4.5	4.5
1201 - 1800	7.7	7.7	7.7	6.2	6.2	6.2	6.5	6.5	6.5	4.5	4.5	4.5
1801 - 2400	7.7	7.7	7.7	6.2	6.2	6.2	6.5	6.5	6.5	4.5	4.5	4.5
DAILY VALUE	7.2	7.5	7.7	6.2	6.2	6.2	6.5	6.5	6.5	4.5	4.5	4.5
0001 - 0600	7.7	7.7	7.7	6.2	6.2	6.2	6.5	6.5	6.5	4.5	4.5	4.5
0601 - 1200	7.7	7.7	7.7	6.2	6.2	6.2	6.5	6.5	6.5	4.5	4.5	4.5
1201 - 1800	7.7	7.7	7.7	6.2	6.4	6.7	6.5	6.5	6.5	4.5	4.5	4.5
1801 - 2400	7.7	7.7	7.7	6.7	6.7	6.7	6.0	6.2	6.5	4.5	4.5	4.5
DAILY VALUE	7.7	7.7	7.7	6.2	6.4	6.7	6.0	6.4	6.5	4.5	4.5	4.5
0001 - 0600	7.7	7.7	7.7	6.2	6.5	6.7	5.5	5.5	5.5	-----	-----	-----
0601 - 1200	7.7	7.7	7.7	6.2	6.4	6.7	5.5	5.5	5.5	-----	-----	-----
1201 - 1800	8.2	8.2	8.2	7.2	7.2	7.2	5.5	5.7	6.0	-----	-----	-----
1801 - 2400	8.7	8.7	8.7	7.2	7.2	7.2	5.0	5.3	5.5	-----	-----	-----
DAILY VALUE	7.7	8.1	8.7	6.2	6.8	7.2	5.0	5.5	6.0	-----	-----	-----
0001 - 0600	8.2	8.2	8.2	7.2	7.2	7.2	4.5	4.5	4.5	MONTHLY VALUE		
0601 - 1200	8.2	8.2	8.2	7.2	7.2	7.2	4.5	4.5	4.5			
1201 - 1800	8.2	8.2	8.2	7.2	7.5	7.7	4.5	4.8	5.0			
1801 - 2400	8.2	8.2	8.2	7.2	7.4	7.7	4.5	4.5	4.5			
DAILY VALUE	8.2	8.2	8.2	7.2	7.3	7.7	4.5	4.6	5.0			

Appendix Table 4-1 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	4.5	4.5	4.5	.5	.5	.5	0.0	0.0	0.0	----	----	----
0601 - 1200	4.5	4.5	4.5	.5	.5	.5	0.0	0.0	0.0	----	----	----
1201 - 1800	4.5	4.5	4.5	1.0	1.0	1.0	0.0	----	0.0	----	----	----
1801 - 2400	4.5	4.5	4.5	1.0	1.0	1.0	----	----	----	----	----	----
DAILY VALUE	4.5	4.5	4.5	.5	.7	1.0	0.0	----	0.0	----	----	----
0001 - 0600	4.0	4.0	4.0	1.0	1.0	1.0	----	----	----	----	----	----
0601 - 1200	4.0	4.2	4.5	1.0	1.0	1.0	----	----	----	----	----	----
1201 - 1800	4.5	4.5	4.5	1.0	1.0	1.0	----	----	----	----	----	----
1801 - 2400	4.5	4.5	4.5	1.0	1.0	1.0	----	----	----	----	----	----
DAILY VALUE	4.0	4.3	4.5	1.0	1.0	1.0	----	----	----	----	----	----
0001 - 0600	4.0	4.2	4.5	.5	.5	.5	----	----	----	----	----	----
0601 - 1200	4.0	4.0	4.0	.5	.5	.5	----	----	----	----	----	----
1201 - 1800	4.5	4.5	4.5	.5	.5	.5	----	----	----	----	----	----
1801 - 2400	4.0	4.2	4.5	.5	.5	.5	----	----	----	----	----	----
DAILY VALUE	4.0	4.2	4.5	.5	.5	.5	----	----	----	----	----	----
0001 - 0600	3.0	3.3	3.5	.5	.5	.5	----	----	----	----	----	----
0601 - 1200	3.0	3.0	3.0	.5	.5	.5	----	----	----	----	----	----
1201 - 1800	3.0	3.2	3.5	.5	.5	.5	----	----	----	----	----	----
1801 - 2400	2.5	2.7	3.0	.5	.5	.5	----	----	----	----	----	----
DAILY VALUE	2.5	3.0	3.5	.5	.5	.5	----	----	----	----	----	----
0001 - 0600	1.5	1.7	2.0	.5	.5	.5	----	----	----	----	----	----
0601 - 1200	1.5	1.5	1.5	0.0	0.0	0.0	----	----	----	----	----	----
1201 - 1800	2.0	2.0	2.0	0.0	0.0	0.0	----	----	----	----	----	----
1801 - 2400	1.5	1.7	2.0	0.0	0.0	0.0	----	----	----	----	----	----
DAILY VALUE	1.5	1.7	2.0	0.0	.1	.5	----	----	----	----	----	----
0001 - 0600	1.0	1.2	1.5	0.0	0.0	0.0	----	----	----	----	----	----
0601 - 1200	1.0	1.0	1.0	0.0	0.0	0.0	----	----	----	----	----	----
1201 - 1800	1.5	1.5	1.5	0.0	0.0	0.0	----	----	----	----	----	----
1801 - 2400	1.5	1.5	1.5	0.0	0.0	0.0	----	----	----	----	----	----
DAILY VALUE	1.0	1.3	1.5	0.0	0.0	0.0	----	----	----	----	----	----
0001 - 0600	1.5	1.5	1.5	0.0	0.0	0.0	----	----	----	----	----	----
0601 - 1200	1.0	1.3	1.5	0.0	0.0	0.0	----	----	----	----	----	----
1201 - 1800	1.0	1.0	1.0	0.0	0.0	0.0	----	----	----	----	----	----
1801 - 2400	1.0	1.0	1.0	0.0	0.0	0.0	----	----	----	----	----	----
DAILY VALUE	1.0	1.2	1.5	0.0	0.0	0.0	----	----	----	----	----	----
0001 - 0600	.5	.8	1.0	0.0	0.0	0.0	----	----	----	MONTHLY VALUE		
0601 - 1200	.5	.7	1.0	0.0	0.0	0.0	----	----	----			
1201 - 1800	1.0	1.0	1.0	0.0	0.0	0.0	----	----	----			
1801 - 2400	.5	.7	1.0	0.0	0.0	0.0	----	----	----			
DAILY VALUE	.5	.8	1.0	0.0	0.0	0.0	----	----	----	0.0 ---- 4.5		

Table 4-C-11 Thermograph data summary, summer surface water temperature (C),
Curry Fishwheel, RM 120.7, Geocode S29N04W10CBB.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	---	---	---	13.6	13.6	13.6	10.1	10.3	10.6	9.6	9.6	9.6
0601 - 1200	---	---	---	13.1	13.3	13.6	10.1	10.1	10.1	9.6	9.6	9.6
1201 - 1800	---	---	---	13.6	13.6	13.6	10.6	10.9	11.1	9.6	9.6	9.6
1801 - 2400	---	---	---	13.6	13.8	14.1	10.6	10.8	11.1	9.6	9.6	9.6
DAILY VALUE	---	---	---	13.1	13.6	14.1	10.1	10.5	11.1	9.6	9.6	9.6
0001 - 0600	---	---	---	12.6	12.9	13.1	10.6	10.6	10.6	9.1	9.1	9.1
0601 - 1200	---	---	---	12.1	12.3	12.6	10.6	10.6	10.6	9.1	9.1	9.1
1201 - 1800	---	---	---	12.1	12.1	12.1	10.6	10.6	10.6	9.1	9.4	9.6
1801 - 2400	---	---	---	12.1	12.1	12.1	10.6	10.6	10.6	9.6	9.6	9.6
DAILY VALUE	---	---	---	12.1	12.3	13.1	10.6	10.6	10.6	9.1	9.3	9.6
0001 - 0600	---	---	---	11.6	11.6	11.6	10.6	10.6	10.6	9.6	9.9	10.1
0601 - 1200	---	---	---	11.1	11.3	11.6	10.6	10.9	11.1	10.1	10.1	10.1
1201 - 1800	---	---	---	11.1	11.1	11.1	11.6	11.9	12.1	10.1	10.1	10.1
1801 - 2400	---	---	---	10.6	10.9	11.1	12.1	12.1	12.1	10.1	10.1	10.1
DAILY VALUE	---	---	---	10.6	11.2	11.6	10.6	11.4	12.1	9.6	10.1	10.1
0001 - 0600	---	---	---	10.6	10.8	11.1	12.1	12.1	12.1	10.1	10.3	10.6
0601 - 1200	---	---	---	11.1	11.1	11.1	12.1	12.3	12.6	11.1	11.1	11.1
1201 - 1800	---	---	---	11.1	11.1	11.1	13.1	13.3	13.6	11.6	11.9	12.1
1801 - 2400	---	---	---	11.1	11.1	11.1	13.6	13.6	13.6	12.1	12.1	12.1
DAILY VALUE	---	---	---	10.6	11.0	11.1	12.1	12.8	13.6	10.1	11.3	12.1
0001 - 0600	---	---	---	11.1	11.1	11.1	13.6	13.6	13.6	12.1	12.1	12.1
0601 - 1200	---	---	---	11.1	11.1	11.1	13.6	13.6	13.6	12.1	12.1	12.1
1201 - 1800	---	---	---	11.1	11.4	11.6	13.1	13.1	13.1	11.6	11.9	12.1
1801 - 2400	---	---	---	11.6	11.6	11.6	12.6	12.8	13.1	11.6	11.6	11.6
DAILY VALUE	---	---	---	11.1	11.3	11.6	12.6	13.3	13.6	11.6	11.9	12.1
0001 - 0600	---	---	---	11.6	11.6	11.6	12.6	12.6	12.6	11.1	11.4	11.6
0601 - 1200	---	---	---	11.1	11.4	11.6	12.6	12.6	12.6	11.1	11.1	11.1
1201 - 1800	---	---	---	11.1	11.3	11.6	12.1	12.4	12.6	10.6	10.9	11.1
1801 - 2400	---	---	---	11.6	11.6	11.6	11.6	11.9	12.1	10.6	10.6	10.6
DAILY VALUE	---	---	---	11.1	11.5	11.6	11.6	12.4	12.6	10.6	11.0	11.6
0001 - 0600	---	---	---	11.1	11.1	11.1	11.1	11.3	11.6	10.1	10.3	10.6
0601 - 1200	---	---	---	11.1	11.1	11.1	11.1	11.1	11.1	10.1	10.1	10.1
1201 - 1800	---	---	---	11.1	11.1	11.1	10.6	10.6	10.6	10.6	10.6	10.6
1801 - 2400	14.1	14.1	14.1	10.6	10.9	11.1	10.1	10.3	10.6	10.6	10.6	10.6
DAILY VALUE	14.1	---	14.1	10.6	11.1	11.1	10.1	10.8	11.6	10.1	10.4	10.6
0001 - 0600	13.6	13.6	13.6	10.6	10.6	10.6	9.6	9.8	10.1	MONTHLY VALUE		
0601 - 1200	13.6	13.8	14.1	10.6	10.6	10.6	9.6	9.6	9.6			
1201 - 1800	14.1	14.1	14.1	10.6	10.6	10.6	9.6	9.6	9.6			
1801 - 2400	13.6	13.8	14.1	10.6	10.6	10.6	9.6	9.6	9.6			
DAILY VALUE	13.6	13.8	14.1	10.6	10.6	10.6	9.6	9.6	10.1	9.1	11.3	14.1

4-C-37

Appendix Table 4-C-11 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	10.1	10.1	10.1	10.9	11.1	11.4	10.4	10.4	10.4	11.4	11.4	11.4
0601 - 1200	9.6	9.9	10.1	10.4	10.4	10.4	10.4	10.4	10.4	11.4	11.4	11.4
1201 - 1800	10.6	10.6	10.6	10.4	10.4	10.4	10.4	10.4	10.4	11.4	11.7	11.9
1801 - 2400	10.6	10.6	10.6	9.9	10.2	10.4	9.9	10.1	10.4	11.4	11.6	11.9
DAILY VALUE	9.6	10.3	10.6	9.9	10.5	11.4	9.9	10.3	10.4	11.4	11.5	11.9
0001 - 0600	10.6	10.6	10.6	9.9	9.9	9.9	9.4	9.4	9.4	10.9	10.9	10.9
0601 - 1200	10.6	10.6	10.6	9.9	9.9	9.9	9.4	9.6	9.9	10.9	10.9	10.9
1201 - 1800	11.1	11.1	11.1	9.9	10.2	10.4	9.9	9.9	9.9	11.4	11.7	11.9
1801 - 2400	11.1	11.1	11.1	9.9	9.9	9.9	9.9	9.9	9.9	10.9	11.2	11.4
DAILY VALUE	10.6	10.8	11.1	9.9	10.0	10.4	9.4	9.7	9.9	10.9	11.2	11.9
0001 - 0600	10.6	10.8	11.1	9.4	9.6	9.9	9.9	9.9	9.9	9.9	10.2	10.4
0601 - 1200	10.6	10.6	10.6	9.4	9.9	10.4	9.9	9.9	9.9	9.9	9.9	9.9
1201 - 1800	11.1	11.4	11.6	10.4	10.7	10.9	10.4	10.4	10.4	10.4	10.7	10.9
1801 - 2400	11.6	11.6	11.6	10.4	10.6	10.9	9.9	10.2	10.4	9.9	10.4	10.9
DAILY VALUE	10.6	11.1	11.6	9.4	10.2	10.9	9.9	10.1	10.4	9.9	10.3	10.9
0001 - 0600	11.1	11.1	11.1	9.9	10.1	10.4	9.9	9.9	9.9	9.9	9.9	9.9
0601 - 1200	11.1	11.3	11.6	9.9	10.1	10.4	9.9	10.4	10.9	9.9	9.9	9.9
1201 - 1800	12.1	12.2	12.4	10.9	11.2	11.4	11.9	12.2	12.4	10.4	10.4	10.4
1801 - 2400	11.9	12.1	12.4	10.4	10.7	10.9	11.4	11.9	12.4	9.9	10.2	10.4
DAILY VALUE	11.1	11.6	12.4	9.9	10.5	11.4	9.9	11.1	12.4	9.9	10.1	10.4
0001 - 0600	11.4	11.4	11.4	10.4	10.4	10.4	10.9	11.1	11.4	9.9	9.9	9.9
0601 - 1200	11.4	11.7	11.9	10.4	10.9	11.4	10.9	11.1	11.4	9.9	9.9	9.9
1201 - 1800	12.4	12.7	12.9	11.9	12.2	12.4	11.9	12.2	12.4	9.9	9.9	9.9
1801 - 2400	11.9	12.2	12.4	11.9	12.2	12.4	11.9	12.2	12.4	9.9	9.9	9.9
DAILY VALUE	11.4	12.0	12.9	10.4	11.4	12.4	10.9	11.6	12.4	9.9	9.9	9.9
0001 - 0600	11.9	11.9	11.9	11.9	11.9	11.9	10.9	11.1	11.4	9.4	9.4	9.4
0601 - 1200	11.9	11.9	11.9	11.9	11.9	11.9	10.9	11.1	11.4	9.4	9.4	9.4
1201 - 1800	12.4	12.4	12.4	12.4	12.4	12.4	11.9	12.1	12.4	9.4	9.4	9.4
1801 - 2400	12.4	12.4	12.4	11.9	12.1	12.4	11.9	11.9	11.9	8.9	9.1	9.4
DAILY VALUE	11.9	12.1	12.4	11.9	12.1	12.4	10.9	11.5	12.4	8.9	9.3	9.4
0001 - 0600	11.9	11.9	11.9	11.4	11.6	11.9	11.4	11.4	11.4	8.4	8.7	8.9
0601 - 1200	11.9	11.9	11.9	11.4	11.4	11.4	11.4	11.4	11.4	8.4	8.4	8.4
1201 - 1800	11.9	11.9	11.9	11.9	12.2	12.4	11.9	11.9	11.9	8.4	8.4	8.4
1801 - 2400	11.4	11.7	11.9	11.4	11.9	12.4	11.4	11.7	11.9	8.4	8.4	8.4
DAILY VALUE	11.4	11.9	11.9	11.4	11.8	12.4	11.4	11.6	11.9	8.4	8.5	8.9
0001 - 0600	11.4	11.4	11.4	10.9	11.2	11.4	11.4	11.4	11.4	----- MONTHLY VALUE -----		
0601 - 1200	11.4	11.4	11.4	10.9	11.1	11.4	11.4	11.4	11.4			
1201 - 1800	11.9	11.9	11.9	11.4	11.7	11.9	11.4	11.7	11.9			
1801 - 2400	11.4	11.6	11.9	10.9	11.1	11.4	11.4	11.7	11.9			
DAILY VALUE	11.4	11.6	11.9	10.9	11.3	11.9	11.4	11.6	11.9	8.4	10.9	12.9

Appendix Table 4-C-11 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.4	8.4	8.4	8.1	8.1	8.1	7.1	7.4	7.6	4.5	4.5	4.5
0601 - 1200	8.4	8.6	8.9	8.1	8.1	8.1	7.1	7.1	7.1	4.5	4.5	4.5
1201 - 1800	8.9	8.9	8.9	8.1	8.1	8.1	7.5	7.5	7.5	5.0	5.0	5.0
1801 - 2400	8.4	8.7	8.9	8.1	8.1	8.1	7.5	7.5	7.5	4.5	4.5	4.5
DAILY VALUE	8.4	8.6	8.9	8.1	8.1	8.1	7.1	7.4	7.6	4.5	4.6	5.0
0001 - 0600	8.4	8.4	8.4	7.6	7.6	7.6	7.0	7.2	7.5	4.5	4.5	4.5
0601 - 1200	8.4	8.4	8.4	7.6	7.6	7.6	6.5	6.5	6.5	4.5	4.8	5.0
1201 - 1800	8.4	8.6	8.9	7.6	7.6	7.6	6.5	6.5	6.5	5.0	5.3	5.5
1801 - 2400	8.4	8.6	8.9	7.6	7.6	7.6	6.5	6.5	6.5	5.5	5.5	5.5
DAILY VALUE	8.4	8.5	8.9	7.6	7.6	7.6	6.5	6.7	7.5	4.5	5.0	5.5
0001 - 0600	8.4	8.4	8.4	7.1	7.1	7.1	6.5	6.5	6.5	5.5	5.5	5.5
0601 - 1200	8.4	8.4	8.4	7.1	7.1	7.1	6.5	6.7	7.0	5.5	5.5	5.5
1201 - 1800	8.6	8.6	8.6	7.1	7.1	7.1	6.5	6.8	7.0	5.5	5.5	5.5
1801 - 2400	8.1	8.1	8.1	6.6	6.8	7.1	6.5	6.5	6.5	5.0	5.3	5.5
DAILY VALUE	8.1	8.4	8.6	6.6	7.0	7.1	6.5	6.6	7.0	5.0	5.5	5.5
0001 - 0600	8.1	8.1	8.1	6.1	6.1	6.1	6.5	6.5	6.5	4.5	4.7	5.0
0601 - 1200	8.1	8.1	8.1	6.1	6.1	6.1	6.5	6.5	6.5	4.5	4.5	4.5
1201 - 1800	8.1	8.1	8.1	6.1	6.4	6.6	6.5	6.5	6.5	4.5	4.7	5.0
1801 - 2400	8.1	8.1	8.1	6.1	6.3	6.6	6.5	6.5	6.5	4.5	4.5	4.5
DAILY VALUE	8.1	8.1	8.1	6.1	6.2	6.6	6.5	6.5	6.5	4.5	4.6	5.0
0001 - 0600	7.6	7.6	7.6	6.1	6.1	6.1	6.5	6.5	6.5	4.5	4.5	4.5
0601 - 1200	7.6	7.6	7.6	6.1	6.1	6.1	6.5	6.5	6.5	4.5	4.5	4.5
1201 - 1800	8.1	8.1	8.1	6.1	6.1	6.1	6.5	6.5	6.5	4.5	4.5	4.5
1801 - 2400	7.6	7.9	8.1	6.1	6.1	6.1	6.5	6.5	6.5	4.5	4.5	4.5
DAILY VALUE	7.6	7.8	8.1	6.1	6.1	6.1	6.5	6.5	6.5	4.5	4.5	4.5
0001 - 0600	7.6	7.6	7.6	6.1	6.1	6.1	6.5	6.5	6.5	4.5	4.5	4.5
0601 - 1200	7.6	7.6	7.6	6.6	6.6	6.6	6.5	6.5	6.5	4.5	4.5	4.5
1201 - 1800	8.1	8.1	8.1	6.6	6.6	6.6	6.5	6.5	6.5	5.0	5.0	5.0
1801 - 2400	8.1	8.1	8.1	6.6	6.6	6.6	6.0	6.2	6.5	-----	-----	-----
DAILY VALUE	7.6	7.8	8.1	6.1	6.5	6.6	6.0	6.4	6.5	4.5	-----	5.0
0001 - 0600	8.1	8.1	8.1	6.6	6.6	6.6	6.0	6.0	6.0	-----	-----	-----
0601 - 1200	8.1	8.1	8.1	6.6	6.6	6.6	5.5	5.8	6.0	-----	-----	-----
1201 - 1800	8.6	8.8	9.1	7.1	7.1	7.1	6.0	6.0	6.0	-----	-----	-----
1801 - 2400	8.6	8.9	9.1	7.1	7.3	7.6	5.0	5.3	5.5	-----	-----	-----
DAILY VALUE	8.1	8.5	9.1	6.6	6.9	7.6	5.0	5.8	6.0	-----	-----	-----
0001 - 0600	8.6	8.6	8.6	7.6	7.6	7.6	5.0	5.0	5.0	-----	-----	-----
0601 - 1200	8.6	8.6	8.6	7.6	7.6	7.6	5.0	5.0	5.0	MONTHLY VALUE		
1201 - 1800	8.6	8.6	8.6	7.6	7.6	7.6	5.0	5.0	5.0	-----		
1801 - 2400	8.1	8.4	8.6	7.6	7.6	7.6	4.5	4.7	5.0	4.5	6.8	9.1
DAILY VALUE	8.1	8.6	8.6	7.6	7.6	7.6	4.5	4.9	5.0	-----		

Appendix Table 4-C-12 Thermograph data summary, summer surface water temperature (C),
Slough 8A-Area of R&M Stage Recorder, RM 126.0, Geocode
S30N03W30BCA.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	8.8	9.0	9.3
1801 - 2400	----	----	----	----	----	----	----	----	----	6.8	7.3	7.8
DAILY VALUE	----	----	----	----	----	----	----	----	----	6.8	----	9.3
0001 - 0600	----	----	----	----	----	----	----	----	----	6.3	6.5	6.8
0601 - 1200	----	----	----	----	----	----	----	----	----	6.3	6.8	7.3
1201 - 1800	----	----	----	----	----	----	----	----	----	7.3	7.6	7.8
1801 - 2400	----	----	----	----	----	----	----	----	----	6.3	6.8	7.3
DAILY VALUE	----	----	----	----	----	----	----	----	----	6.3	6.9	7.8
0001 - 0600	----	----	----	----	----	----	----	----	----	6.3	6.3	6.3
0601 - 1200	----	----	----	----	----	----	----	----	----	6.3	6.5	6.8
1201 - 1800	----	----	----	----	----	----	----	----	----	6.8	6.8	6.8
1801 - 2400	----	----	----	----	----	----	----	----	----	6.3	6.5	6.8
DAILY VALUE	----	----	----	----	----	----	----	----	----	6.3	6.5	6.8
0001 - 0600	----	----	----	----	----	----	----	----	----	5.8	6.0	6.3
0601 - 1200	----	----	----	----	----	----	----	----	----	5.8	6.8	7.8
1201 - 1800	----	----	----	----	----	----	----	----	----	7.8	8.1	8.3
1801 - 2400	----	----	----	----	----	----	----	----	----	5.8	6.6	7.3
DAILY VALUE	----	----	----	----	----	----	----	----	----	5.8	6.9	8.3
0001 - 0600	----	----	----	----	----	----	----	----	----	MONTHLY VALUE		
0601 - 1200	----	----	----	----	----	----	----	----	----			
1201 - 1800	----	----	----	----	----	----	----	----	----			
1801 - 2400	----	----	----	----	----	----	----	----	----	5.8	----	9.3
DAILY VALUE	----	----	----	----	----	----	----	----	----			

Table 4-C-12 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	4.8	5.0	5.3	6.8	6.8	6.8	7.3	7.6	7.8	8.3	8.6	8.8
0601 - 1200	5.3	6.5	7.8	6.8	7.1	7.8	7.3	7.5	7.8	8.3	9.0	9.8
1201 - 1800	8.8	9.3	9.8	8.3	8.6	8.8	8.3	9.0	9.3	11.3	11.8	12.3
1801 - 2400	6.3	7.0	7.8	7.3	7.5	7.8	7.3	8.0	8.8	8.8	9.5	10.3
DAILY VALUE	4.8	6.9	9.8	6.8	7.5	8.8	7.3	8.0	9.3	8.3	9.7	12.3
0001 - 0600	4.8	5.0	5.3	6.8	6.8	6.8	6.8	6.8	6.8	8.3	8.3	8.3
0601 - 1200	5.3	6.6	8.3	6.8	7.1	7.8	6.8	7.6	8.3	8.3	9.5	10.8
1201 - 1800	9.8	10.0	10.3	7.8	7.8	7.8	8.8	8.8	8.8	10.8	12.0	12.8
1801 - 2400	6.3	7.5	8.8	6.8	7.0	7.3	6.3	7.3	8.3	8.8	9.6	10.3
DAILY VALUE	4.8	7.3	10.3	6.8	7.2	7.8	6.3	7.6	8.8	8.3	9.8	12.8
0001 - 0600	5.3	5.5	5.8	6.3	6.5	6.8	5.8	5.8	5.8	6.3	7.0	7.8
0601 - 1200	5.3	7.0	8.8	6.3	8.1	9.8	6.3	7.5	8.8	6.3	7.8	9.8
1201 - 1800	9.8	10.3	10.8	11.3	11.8	12.3	9.8	10.1	10.3	10.3	11.6	12.3
1801 - 2400	7.3	7.8	8.3	6.8	8.3	10.3	6.8	7.8	8.8	8.3	9.1	9.8
DAILY VALUE	5.3	7.6	10.8	6.3	8.7	12.3	5.8	7.8	10.3	6.3	8.9	12.3
0001 - 0600	5.8	6.0	6.3	5.3	5.8	6.3	5.8	6.0	6.3	6.8	7.3	7.8
0601 - 1200	6.3	7.6	9.3	5.8	7.6	9.8	6.3	7.8	9.3	6.8	7.6	8.8
1201 - 1800	10.8	11.0	11.3	11.8	12.3	12.8	11.8	12.6	13.3	9.8	10.3	10.8
1801 - 2400	7.3	8.0	8.8	7.3	8.1	9.3	7.3	9.0	10.8	8.3	9.0	9.8
DAILY VALUE	5.8	8.1	11.3	5.3	8.5	12.8	5.8	8.8	13.3	6.8	8.5	10.8
0001 - 0600	6.3	6.5	6.8	6.8	7.0	7.3	6.3	6.5	6.8	7.8	8.0	8.3
0601 - 1200	6.8	8.1	9.8	6.8	8.6	10.8	6.3	8.1	10.3	7.8	8.1	8.8
1201 - 1800	10.3	10.8	11.3	12.3	12.8	13.3	12.3	12.8	13.3	9.3	9.3	9.3
1801 - 2400	6.8	7.8	8.8	8.3	9.3	10.3	7.3	9.0	10.8	7.8	8.3	8.8
DAILY VALUE	6.3	8.3	11.3	6.8	9.4	13.3	6.3	9.1	13.3	7.8	8.4	9.3
0001 - 0600	6.3	6.5	6.8	8.3	8.3	8.3	5.8	6.3	6.8	7.8	7.8	7.8
0601 - 1200	6.8	8.3	9.8	7.8	8.0	8.3	6.3	8.1	10.3	7.8	7.8	7.8
1201 - 1800	10.8	11.6	12.3	8.3	8.6	8.8	11.8	12.6	13.3	7.8	8.1	8.3
1801 - 2400	7.3	8.5	9.8	6.8	7.5	8.3	-----	-----	-----	7.3	7.5	7.8
DAILY VALUE	6.3	8.7	12.3	6.8	8.1	8.8	5.8	9.0	13.3	7.3	7.8	8.3
0001 - 0600	6.3	6.5	6.8	6.8	6.8	6.8	-----	-----	-----	6.8	7.0	7.3
0601 - 1200	6.8	8.0	9.3	6.8	7.6	8.8	-----	-----	-----	6.8	7.3	7.8
1201 - 1800	8.3	9.3	10.3	10.8	11.5	12.3	11.8	-----	11.8	8.3	8.6	8.8
1801 - 2400	6.8	7.3	7.8	7.8	8.5	9.3	8.8	9.5	10.3	7.3	7.5	7.8
DAILY VALUE	6.3	7.8	10.3	6.8	8.6	12.3	8.8	-----	11.8	6.8	7.6	8.8
0001 - 0600	5.8	6.0	6.3	7.3	7.3	7.3	8.3	8.3	8.3	MONTHLY VALUE		
0601 - 1200	6.3	8.1	9.8	7.3	8.8	10.8	8.3	9.1	10.3			
1201 - 1800	9.8	10.8	11.3	11.3	12.1	12.8	11.3	11.6	11.8	4.8 8.4 13.3		
1801 - 2400	7.3	7.8	8.8	8.3	9.0	9.8	9.3	10.0	10.8			
DAILY VALUE	5.8	8.2	11.3	7.3	9.3	12.8	8.3	9.8	11.8			

4-C-41

Appendix Table 4-C-12 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	6.8	7.1	7.3	6.3	6.3	6.3	5.3	5.3	5.3	3.3	3.6	3.8
0601 - 1200	7.3	8.0	8.8	6.3	6.5	6.8	5.3	5.3	5.3	3.3	3.5	3.8
1201 - 1800	8.8	9.1	9.3	7.8	7.8	7.8	5.3	5.3	5.3	4.3	4.6	4.8
1801 - 2400	6.8	7.5	8.3	6.3	6.8	7.3	5.3	5.3	5.3	4.3	4.3	4.3
DAILY VALUE	6.8	7.9	9.3	6.3	6.8	7.8	5.3	5.3	5.3	3.3	4.0	4.8
0001 - 0600	6.3	6.5	6.8	5.8	6.1	6.3	4.8	5.1	5.3	4.3	4.3	4.3
0601 - 1200	6.3	6.8	7.3	5.8	6.5	7.3	5.3	5.5	5.8	4.3	4.3	4.3
1201 - 1800	8.3	8.8	9.3	7.8	7.8	7.8	5.8	5.8	5.8	4.8	4.8	4.8
1801 - 2400	7.3	7.5	7.8	6.3	6.5	6.8	5.8	5.8	5.8	4.3	4.5	4.8
DAILY VALUE	6.3	7.4	9.3	5.8	6.7	7.8	4.8	5.5	5.8	4.3	4.5	4.8
0001 - 0600	6.8	7.0	7.3	5.8	5.8	5.8	5.3	5.5	5.8	4.3	4.3	4.3
0601 - 1200	6.8	6.8	6.8	5.8	6.0	6.3	5.3	5.5	5.8	4.3	4.3	4.3
1201 - 1800	7.3	7.5	7.8	6.3	6.6	6.8	5.8	5.8	5.8	4.8	4.8	4.8
1801 - 2400	6.8	6.8	6.8	5.3	5.8	6.3	5.8	5.8	5.8	3.8	4.3	4.8
DAILY VALUE	6.8	7.0	7.8	5.3	6.0	6.8	5.3	5.6	5.8	3.8	4.4	4.8
0001 - 0600	5.8	6.1	6.3	4.8	4.8	4.8	5.3	5.3	5.3	2.8	3.3	3.8
0601 - 1200	5.8	6.1	6.8	4.8	5.0	5.3	5.3	5.5	5.8	2.8	3.0	3.3
1201 - 1800	7.3	7.8	8.3	6.8	6.8	6.8	5.8	5.8	5.8	3.8	3.8	3.8
1801 - 2400	6.3	6.5	6.8	5.3	5.6	5.8	-----	-----	-----	3.8	3.8	3.8
DAILY VALUE	5.8	6.6	8.3	4.8	5.5	6.8	5.3	-----	5.8	2.8	3.5	3.8
0001 - 0600	5.8	6.1	6.3	5.3	5.3	5.3	-----	-----	-----	3.8	3.8	3.8
0601 - 1200	5.8	6.5	7.3	5.3	5.3	5.3	5.8	-----	5.8	3.8	3.8	3.8
1201 - 1800	7.3	7.6	7.8	5.8	6.0	6.3	5.8	5.8	5.8	4.8	4.8	4.8
1801 - 2400	6.3	6.6	6.8	5.8	5.8	5.8	5.8	5.8	5.8	4.8	4.8	4.8
DAILY VALUE	5.8	6.7	7.8	5.3	5.6	6.3	5.8	-----	5.8	3.8	4.3	4.8
0001 - 0600	6.3	6.3	6.3	5.8	5.8	5.8	5.3	5.3	5.3	4.3	4.3	4.3
0601 - 1200	6.3	6.8	7.3	5.8	5.8	5.8	5.3	5.3	5.3	4.3	4.3	4.3
1201 - 1800	7.3	7.3	7.3	6.3	6.3	6.3	5.8	5.8	5.8	5.2	5.2	5.2
1801 - 2400	6.3	6.6	6.8	5.8	6.0	6.3	4.8	5.0	5.3	4.7	4.7	4.7
DAILY VALUE	6.3	6.8	7.3	5.8	6.0	6.3	4.8	5.3	5.8	4.3	4.7	5.2
0001 - 0600	6.3	6.3	6.3	5.8	5.8	5.8	3.8	4.3	4.8	-----	-----	-----
0601 - 1200	6.8	7.1	7.8	5.8	6.3	6.8	3.8	3.8	3.8	-----	-----	-----
1201 - 1800	8.3	8.6	8.8	7.3	7.3	7.3	4.3	5.0	5.3	-----	-----	-----
1801 - 2400	6.8	7.3	7.8	6.8	6.8	6.8	3.8	4.1	4.8	-----	-----	-----
DAILY VALUE	6.3	7.3	8.8	5.8	6.5	7.3	3.8	4.3	5.3	-----	-----	-----
0001 - 0600	6.8	6.8	6.8	5.8	6.1	6.3	2.8	3.3	3.8	MONTHLY VALUE		
0601 - 1200	6.8	7.1	7.8	5.8	6.0	6.3	2.8	3.1	3.8			
1201 - 1800	7.8	7.8	7.8	6.3	6.5	6.8	4.3	4.6	4.8			
1801 - 2400	6.8	7.0	7.3	5.8	5.8	5.8	3.8	4.1	4.3			
DAILY VALUE	6.8	7.2	7.8	5.8	6.1	6.8	2.8	3.8	4.8			

App. . . Table 4-C-12 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	4.2	4.4	4.7	1.2	1.5	1.7	.7	.7	.7	----	----	----
0601 - 1200	4.2	4.2	4.2	1.7	2.2	2.7	.7	1.2	1.7	----	----	----
1201 - 1800	4.2	4.5	4.7	3.2	3.2	3.2	1.7	2.0	2.2	----	----	----
1801 - 2400	3.7	3.9	4.2	2.2	2.4	2.7	.2	.7	1.2	----	----	----
DAILY VALUE	3.7	4.2	4.7	1.2	2.3	3.2	.2	1.2	2.2	----	----	----
0001 - 0600	3.7	3.7	3.7	2.2	2.2	2.2	.2	.2	.2	----	----	----
0601 - 1200	3.7	3.9	4.2	2.2	2.4	2.7	.2	.4	.7	----	----	----
1201 - 1800	4.2	4.5	4.7	2.7	2.7	2.7	.7	.7	.7	----	----	----
1801 - 2400	3.7	3.7	3.7	1.7	2.0	2.2	.7	.7	.7	----	----	----
DAILY VALUE	3.7	3.9	4.7	1.7	2.3	2.7	.2	.5	.7	----	----	----
0001 - 0600	3.2	3.5	3.7	1.7	1.7	1.7	.7	.7	.7	----	----	----
0601 - 1200	3.2	3.2	3.2	1.2	1.5	1.7	.2	.2	.2	----	----	----
1201 - 1800	3.7	4.0	4.2	1.2	1.9	2.2	.7	.7	.7	----	----	----
1801 - 2400	3.2	3.4	3.7	.7	1.2	1.7	.7	.7	.7	----	----	----
DAILY VALUE	3.2	3.5	4.2	.7	1.6	2.2	.2	.6	.7	----	----	----
0001 - 0600	2.2	2.5	2.7	.7	.7	.7	.7	.7	.7	----	----	----
0601 - 1200	2.2	2.4	2.7	.7	1.2	1.7	.7	.7	.7	----	----	----
1201 - 1800	3.2	3.2	3.2	2.2	2.2	2.2	.7	1.0	1.2	----	----	----
1801 - 2400	2.2	2.4	2.7	1.7	2.0	2.2	.2	.2	.2	----	----	----
DAILY VALUE	2.2	2.6	3.2	.7	1.5	2.2	.2	.7	1.2	----	----	----
0001 - 0600	2.2	2.2	2.2	.7	1.2	1.7	----	----	----	----	----	----
0601 - 1200	1.7	2.0	2.2	1.2	1.2	1.2	----	----	----	----	----	----
1201 - 1800	2.7	2.7	2.7	1.2	1.4	1.7	----	----	----	----	----	----
1801 - 2400	1.7	1.9	2.2	1.2	1.5	1.7	----	----	----	----	----	----
DAILY VALUE	1.7	2.2	2.7	.7	1.3	1.7	----	----	----	----	----	----
0001 - 0600	1.2	1.4	1.7	1.2	1.2	1.2	----	----	----	----	----	----
0601 - 1200	1.2	1.7	2.2	.7	1.0	1.7	----	----	----	----	----	----
1201 - 1800	2.7	2.7	2.7	1.7	2.0	2.2	----	----	----	----	----	----
1801 - 2400	2.2	2.2	2.2	.7	1.0	1.2	----	----	----	----	----	----
DAILY VALUE	1.2	2.0	2.7	.7	1.3	2.2	----	----	----	----	----	----
0001 - 0600	2.2	2.2	2.2	.2	.2	.2	----	----	----	----	----	----
0601 - 1200	1.7	2.0	2.2	.2	.2	.2	----	----	----	----	----	----
1201 - 1800	2.2	2.5	2.7	.7	.7	.7	----	----	----	----	----	----
1801 - 2400	2.2	2.4	2.7	.2	.4	.7	----	----	----	----	----	----
DAILY VALUE	1.7	2.3	2.7	.2	.4	.7	----	----	----	----	----	----
0001 - 0600	1.7	1.9	2.2	.7	.7	.7	----	----	----	MONTHLY VALUE		
0601 - 1200	1.7	2.2	2.7	.7	.7	.7	----	----	----			
1201 - 1800	2.7	3.0	3.2	.7	.7	.7	----	----	----			
1801 - 2400	1.2	1.7	2.2	.7	.7	.7	----	----	----			
DAILY VALUE	1.2	2.2	3.2	.7	.7	.7	----	----	----			

Appendix Table 4-C-13

Thermograph data summary, summer surface water temperature (C),
LRX 29, RM 126.1, Geocode S3ON03W19DCA.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	10.2	10.2	10.2	10.2	10.2	10.2
0601 - 1200	----	----	----	----	----	----	10.2	10.7	11.2	10.2	10.2	10.2
1201 - 1800	----	----	----	15.7	----	15.7	12.2	12.2	12.2	9.7	9.7	9.7
1801 - 2400	----	----	----	14.2	14.7	15.2	11.2	11.4	11.7	9.7	9.7	9.7
DAILY VALUE	----	----	----	14.2	----	15.7	10.2	11.1	12.2	9.7	9.9	10.2
0001 - 0600	----	----	----	13.2	13.4	13.7	10.7	10.9	11.2	9.7	9.7	9.7
0601 - 1200	----	----	----	12.7	12.7	12.7	10.7	11.0	11.2	9.7	9.7	9.7
1201 - 1800	----	----	----	12.7	12.7	12.7	11.2	11.5	11.7	10.2	10.9	11.2
1801 - 2400	----	----	----	12.2	12.2	12.2	11.2	11.4	11.7	10.7	10.7	10.7
DAILY VALUE	----	----	----	12.2	12.7	13.7	10.7	11.2	11.7	9.7	10.2	11.2
0001 - 0600	----	----	----	11.7	11.9	12.2	10.7	10.7	10.7	10.7	10.7	10.7
0601 - 1200	----	----	----	11.7	11.7	11.7	11.2	11.9	12.7	11.7	----	11.7
1201 - 1800	----	----	----	12.2	12.2	12.2	13.2	13.5	13.7	----	----	----
1801 - 2400	----	----	----	11.2	11.5	11.7	12.2	12.7	13.2	----	----	----
DAILY VALUE	----	----	----	11.2	11.8	12.2	10.7	12.2	13.7	10.7	----	11.7
0001 - 0600	----	----	----	11.2	11.2	11.2	12.2	12.2	12.2	----	----	----
0601 - 1200	----	----	----	11.2	11.4	11.7	12.2	13.0	13.7	----	----	----
1201 - 1800	----	----	----	11.7	11.7	11.7	14.2	14.7	15.2	----	----	----
1801 - 2400	----	----	----	11.2	11.4	11.7	13.7	14.2	14.7	----	----	----
DAILY VALUE	----	----	----	11.2	11.4	11.7	12.2	13.5	15.2	----	----	----
0001 - 0600	----	----	----	11.2	11.2	11.2	13.7	13.7	13.7	----	----	----
0601 - 1200	----	----	----	11.2	11.4	11.7	13.7	13.7	13.7	----	----	----
1201 - 1800	----	----	----	12.2	12.2	12.2	13.2	13.5	13.7	----	----	----
1801 - 2400	----	----	----	11.7	12.0	12.2	12.7	13.0	13.2	12.2	12.2	12.2
DAILY VALUE	----	----	----	11.2	11.7	12.2	12.7	13.5	13.7	12.2	----	12.2
0001 - 0600	----	----	----	11.7	11.7	11.7	12.2	12.2	12.2	11.7	11.7	11.7
0601 - 1200	----	----	----	11.7	11.7	11.7	12.2	12.2	12.2	11.7	11.7	11.7
1201 - 1800	----	----	----	11.7	12.0	12.2	12.7	12.7	12.7	11.2	11.5	11.7
1801 - 2400	----	----	----	11.7	11.9	12.2	11.7	12.0	12.2	11.2	11.2	11.2
DAILY VALUE	----	----	----	11.7	11.8	12.2	11.7	12.3	12.7	11.2	11.5	11.7
0001 - 0600	----	----	----	11.2	11.2	11.2	11.7	11.7	11.7	10.7	10.7	10.7
0601 - 1200	----	----	----	11.2	11.4	11.7	11.2	11.2	11.2	10.7	11.0	11.2
1201 - 1800	----	----	----	12.2	12.2	12.2	11.2	11.2	11.2	11.2	11.2	11.2
1801 - 2400	----	----	----	11.2	11.4	11.7	10.2	10.5	10.7	10.7	10.9	11.2
DAILY VALUE	----	----	----	11.2	11.5	12.2	10.2	11.2	11.7	10.7	10.9	11.2
0001 - 0600	----	----	----	10.7	10.9	11.2	10.2	10.2	10.2	MONTHLY VALUE		
0601 - 1200	----	----	----	10.7	11.0	11.2	10.2	10.2	10.2			
1201 - 1800	----	----	----	11.7	11.7	11.7	10.2	10.2	10.2			
1801 - 2400	----	----	----	10.7	10.9	11.2	10.2	10.2	10.2			
DAILY VALUE	----	----	----	10.7	11.1	11.7	10.2	10.2	10.2	9.7	----	15.7

Appendix Table 4-C-13 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	10.2	10.2	10.2	11.1	11.3	11.6	10.6	10.6	10.6	11.6	11.6	11.6
0601 - 1200	10.2	10.7	11.2	10.6	10.8	11.1	10.6	10.6	10.6	11.6	11.6	11.6
1201 - 1800	11.2	11.5	11.7	11.1	11.1	11.1	10.6	10.6	10.6	12.1	12.1	12.1
1801 - 2400	10.2	10.7	11.2	10.6	10.6	10.6	10.1	10.4	10.6	11.6	11.8	12.1
DAILY VALUE	10.2	10.8	11.7	10.6	10.9	11.6	10.1	10.6	10.6	11.6	11.8	12.1
0001 - 0600	10.2	10.2	10.2	10.1	10.1	10.1	9.6	9.6	9.6	11.1	11.1	11.1
0601 - 1200	10.2	10.7	11.2	10.1	10.1	10.1	9.6	9.9	10.1	11.1	11.3	11.6
1201 - 1800	12.2	12.2	12.2	10.6	10.6	10.6	10.6	10.6	10.6	12.1	12.1	12.1
1801 - 2400	11.2	11.7	12.2	10.1	10.3	10.6	10.1	10.4	10.6	11.1	11.4	12.1
DAILY VALUE	10.2	11.2	12.2	10.1	10.3	10.6	9.6	10.1	10.6	11.1	11.5	12.1
0001 - 0600	10.2	10.4	10.7	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.3	10.6
0601 - 1200	10.2	11.2	12.2	10.1	10.6	11.1	10.1	10.3	10.6	9.6	9.9	10.6
1201 - 1800	12.7	13.0	13.2	11.6	11.8	12.1	11.1	11.1	11.1	11.1	11.4	11.6
1801 - 2400	11.7	11.9	12.2	10.6	11.1	11.6	10.6	10.8	11.1	10.1	10.6	11.1
DAILY VALUE	10.2	11.6	13.2	10.1	10.9	12.1	10.1	10.6	11.1	9.6	10.6	11.6
0001 - 0600	11.2	11.2	11.2	10.1	10.3	10.6	10.1	10.1	10.1	10.1	10.1	10.1
0601 - 1200	11.2	12.0	12.7	10.1	10.3	10.6	10.1	10.8	11.6	10.1	10.3	10.6
1201 - 1800	13.2	13.8	14.6	11.6	11.9	12.1	12.6	12.9	13.1	10.6	10.9	11.1
1801 - 2400	12.1	12.6	13.1	11.1	11.4	11.6	11.6	12.1	12.6	10.1	10.6	11.1
DAILY VALUE	11.2	12.4	14.6	10.1	11.0	12.1	10.1	11.5	13.1	10.1	10.5	11.1
0001 - 0600	11.6	11.8	12.1	10.6	10.6	10.6	11.1	11.1	11.1	10.1	10.1	10.1
0601 - 1200	11.6	12.1	12.6	10.6	11.1	11.6	11.1	11.3	11.6	10.1	10.1	10.1
1201 - 1800	13.1	13.4	13.6	12.6	12.9	13.1	12.6	12.9	13.1	10.1	10.1	10.1
1801 - 2400	12.1	12.6	13.1	12.6	12.8	13.1	11.6	12.1	12.6	10.1	10.1	10.1
DAILY VALUE	11.6	12.5	13.6	10.6	11.8	13.1	11.1	11.8	13.1	10.1	10.1	10.1
0001 - 0600	11.6	11.9	12.1	12.1	12.1	12.1	11.1	11.1	11.1	9.6	9.6	9.6
0601 - 1200	11.6	12.1	12.6	12.1	12.1	12.1	11.1	11.3	11.6	9.6	9.6	9.6
1201 - 1800	12.6	13.3	13.6	12.6	12.6	12.6	12.1	12.4	12.6	9.6	9.6	9.6
1801 - 2400	12.1	12.6	13.1	12.1	12.3	12.6	12.1	12.3	12.6	9.1	9.4	9.6
DAILY VALUE	11.6	12.5	13.6	12.1	12.3	12.6	11.1	11.8	12.6	9.1	9.6	9.6
0001 - 0600	11.6	11.8	12.1	11.6	11.9	12.1	11.6	11.6	11.6	8.6	8.9	9.1
0601 - 1200	11.6	11.8	12.1	11.6	11.8	12.1	11.6	11.8	12.1	8.6	8.6	8.6
1201 - 1800	12.1	12.3	12.6	12.6	12.9	13.1	12.1	12.4	12.6	9.1	9.1	9.1
1801 - 2400	11.6	11.9	12.1	11.6	12.1	12.6	11.6	11.9	12.1	8.6	8.9	9.1
DAILY VALUE	11.6	11.9	12.6	11.6	12.2	13.1	11.6	11.9	12.6	8.6	8.9	9.1
0001 - 0600	11.1	11.4	11.6	11.1	11.4	11.6	11.6	11.6	11.6	MONTHLY VALUE		
0601 - 1200	11.1	11.6	12.1	11.1	11.4	11.6	11.6	11.6	11.6			
1201 - 1800	12.6	12.6	12.6	12.1	12.3	12.6	12.1	12.4	12.6	8.6 11.3 14.6		
1801 - 2400	11.6	11.9	12.1	11.1	11.3	11.6	11.6	12.1	12.6			
DAILY VALUE	11.1	11.9	12.6	11.1	11.6	12.6	11.6	11.9	12.6			

Appendix Table 4-C-15 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.6	8.6	8.6	8.5	8.5	8.5	7.5	7.7	8.0	3.8	3.8	3.8
0601 - 1200	8.6	8.8	9.1	8.5	8.5	8.5	7.5	7.5	7.5	3.8	3.8	3.8
1201 - 1800	9.6	9.6	9.6	8.5	8.5	8.5	7.5	7.5	7.5	4.3	4.3	4.3
1801 - 2400	8.6	9.1	9.6	8.5	8.5	8.5	7.0	7.2	7.5	4.3	4.3	4.3
DAILY VALUE	8.6	9.0	9.6	8.5	8.5	8.5	7.0	7.5	8.0	3.8	4.0	4.3
0001 - 0600	8.6	8.6	8.6	8.5	8.5	8.5	7.0	7.0	7.0	4.3	4.3	4.3
0601 - 1200	8.6	8.6	8.6	8.0	8.2	8.5	7.0	7.0	7.0	4.3	4.3	4.3
1201 - 1800	9.1	9.6	10.0	8.5	8.5	8.5	7.0	7.0	7.0	4.3	4.3	4.3
1801 - 2400	9.0	9.0	9.0	8.0	8.3	8.5	7.0	7.0	7.0	4.3	4.3	4.3
DAILY VALUE	8.6	8.9	10.0	8.0	8.4	8.5	7.0	7.0	7.0	4.3	4.3	4.3
0001 - 0600	8.5	8.5	8.5	7.5	7.7	8.0	6.5	6.5	6.5	4.3	4.3	4.3
0601 - 1200	8.5	8.5	8.5	7.5	7.5	7.5	6.5	6.7	7.0	4.3	4.3	4.3
1201 - 1800	8.5	8.8	9.0	7.5	7.5	7.5	7.0	7.0	7.0	4.3	4.6	4.8
1801 - 2400	8.5	8.7	9.0	7.0	7.3	7.5	7.0	7.0	7.0	4.3	4.5	4.8
DAILY VALUE	8.5	8.6	9.0	7.0	7.5	8.0	6.5	6.8	7.0	4.3	4.4	4.8
0001 - 0600	8.5	8.5	8.5	6.5	6.7	7.0	7.0	7.0	7.0	3.8	4.1	4.3
0601 - 1200	8.5	8.5	8.5	6.5	6.5	6.5	6.8	6.9	7.0	3.8	3.8	3.8
1201 - 1800	9.0	9.0	9.0	7.5	7.5	7.5	6.3	6.3	6.3	4.3	4.3	4.3
1801 - 2400	8.5	8.5	8.5	7.0	7.0	7.0	6.3	6.3	6.3	3.8	3.8	3.8
DAILY VALUE	8.5	8.6	9.0	6.5	6.9	7.5	6.3	6.6	7.0	3.8	4.0	4.3
0001 - 0600	8.0	8.0	8.0	7.0	7.0	7.0	6.3	6.3	6.3	3.8	3.8	3.8
0601 - 1200	8.0	8.2	8.5	7.0	7.0	7.0	6.3	6.3	6.3	3.8	3.8	3.8
1201 - 1800	8.5	8.5	8.5	7.0	7.0	7.0	6.3	6.3	6.3	3.8	4.1	4.3
1801 - 2400	8.5	8.5	8.5	7.0	7.0	7.0	5.8	6.1	6.3	3.8	3.8	3.8
DAILY VALUE	8.0	8.3	8.5	7.0	7.0	7.0	5.8	6.3	6.3	3.8	3.9	4.3
0001 - 0600	8.5	8.5	8.5	7.0	7.0	7.0	5.8	5.8	5.8	3.8	3.8	3.8
0601 - 1200	8.5	8.5	8.5	7.0	7.0	7.0	5.8	5.8	5.8	3.8	3.8	3.8
1201 - 1800	8.5	8.5	8.5	7.5	7.5	7.5	5.8	5.8	5.8	4.3	4.3	4.3
1801 - 2400	8.5	8.5	8.5	7.0	7.3	7.5	5.3	5.5	5.8	4.3	4.3	4.3
DAILY VALUE	8.5	8.5	8.5	7.0	7.2	7.5	5.3	5.7	5.8	3.8	4.0	4.3
0001 - 0600	8.5	8.5	8.5	7.0	7.0	7.0	5.3	5.3	5.3	----	----	----
0601 - 1200	8.5	8.8	9.0	7.0	7.2	7.5	5.3	5.3	5.3	----	----	----
1201 - 1800	9.5	9.5	9.5	7.5	7.8	8.0	5.3	5.3	5.3	----	----	----
1801 - 2400	9.5	9.5	9.5	8.0	8.0	8.0	4.3	4.8	5.3	----	----	----
DAILY VALUE	8.5	9.1	9.5	7.0	7.5	8.0	4.3	5.2	5.3	----	----	----
0001 - 0600	9.0	9.2	9.5	8.0	8.0	8.0	4.3	4.3	4.3	MONTHLY VALUE		
0601 - 1200	9.0	9.0	9.0	8.0	8.0	8.0	3.8	4.0	4.3			
1201 - 1800	9.5	9.5	9.5	8.0	8.0	8.0	4.3	4.3	4.3			
1801 - 2400	9.0	9.0	9.0	8.0	8.0	8.0	4.3	4.3	4.3			
DAILY VALUE	9.0	9.2	9.5	8.0	8.0	8.0	3.8	4.2	4.3	3.8	6.8	10.0

4-C-46

Table 4-6-13 Cont.

- OCTOBER 1982 -

[illegible]

4-C-47

Appendix A Table 4-C-14 Thermograph data summary, summer surface water temperature (C),
Slough 9-Area of R&M Stage Recorder, RM 129.2, Geocode
S30N03W16ACB.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	---	---	---	---	---	---	---	---	---	---	---	---
0601 - 1200	---	---	---	---	---	---	---	---	---	---	---	---
1201 - 1800	---	---	---	---	---	---	---	---	---	---	---	---
1801 - 2400	---	---	---	---	---	---	---	---	---	---	---	---
DAILY VALUE	---	---	---	---	---	---	---	---	---	---	---	---
0001 - 0600	---	---	---	---	---	---	---	---	---	---	---	---
0601 - 1200	---	---	---	---	---	---	---	---	---	---	---	---
1201 - 1800	---	---	---	---	---	---	---	---	---	---	---	---
1801 - 2400	---	---	---	---	---	---	---	---	---	---	---	---
DAILY VALUE	---	---	---	---	---	---	---	---	---	---	---	---
0001 - 0600	---	---	---	---	---	---	---	---	---	---	---	---
0601 - 1200	---	---	---	---	---	---	---	---	---	---	---	---
1201 - 1800	---	---	---	---	---	---	---	---	---	---	---	---
1801 - 2400	---	---	---	---	---	---	---	---	---	---	---	---
DAILY VALUE	---	---	---	---	---	---	---	---	---	---	---	---
0001 - 0600	---	---	---	---	---	---	---	---	---	---	---	---
0601 - 1200	---	---	---	---	---	---	---	---	---	---	---	---
1201 - 1800	---	---	---	---	---	---	---	---	---	12.5	12.5	12.5
1801 - 2400	---	---	---	---	---	---	---	---	---	12.0	12.2	12.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	12.0	---	12.5
0001 - 0600	---	---	---	---	---	---	---	---	---	11.5	11.5	11.5
0601 - 1200	---	---	---	---	---	---	---	---	---	11.5	11.7	12.0
1201 - 1800	---	---	---	---	---	---	---	---	---	11.5	11.8	12.0
1801 - 2400	---	---	---	---	---	---	---	---	---	11.0	11.2	11.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	11.0	11.5	12.0
0001 - 0600	---	---	---	---	---	---	---	---	---	10.5	10.7	11.0
0601 - 1200	---	---	---	---	---	---	---	---	---	10.5	10.5	10.5
1201 - 1800	---	---	---	---	---	---	---	---	---	10.5	10.5	10.5
1801 - 2400	---	---	---	---	---	---	---	---	---	10.5	10.5	10.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	10.5	10.5	11.0
0001 - 0600	---	---	---	---	---	---	---	---	---	10.0	10.0	10.0
0601 - 1200	---	---	---	---	---	---	---	---	---	10.0	10.0	10.0
1201 - 1800	---	---	---	---	---	---	---	---	---	10.5	10.5	10.5
1801 - 2400	---	---	---	---	---	---	---	---	---	10.0	10.2	10.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	10.0	10.2	10.5
0001 - 0600	---	---	---	---	---	---	---	---	---	MONTHLY VALUE		
0601 - 1200	---	---	---	---	---	---	---	---	---			
1201 - 1800	---	---	---	---	---	---	---	---	---			
1801 - 2400	---	---	---	---	---	---	---	---	---			
DAILY VALUE	---	---	---	---	---	---	---	---	---	10.0 --- 12.5		

Appendix Table 4-C-14 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	9.5	9.7	10.0	8.0	8.5	9.0	8.0	8.5	9.0	8.5	9.0	9.5
0601 - 1200	9.5	9.7	10.0	7.5	7.7	8.0	7.5	7.5	7.5	8.0	8.0	8.0
1201 - 1800	10.5	10.8	11.0	9.0	9.5	10.0	8.0	8.7	9.5	8.5	9.3	10.0
1801 - 2400	10.0	10.2	10.5	9.0	9.5	10.0	8.5	9.2	9.5	9.0	9.8	10.5
DAILY VALUE	9.5	10.1	11.0	7.5	8.8	10.0	7.5	8.5	9.5	8.0	9.0	10.5
0001 - 0600	9.0	9.3	9.5	8.0	8.2	8.5	7.5	7.7	8.0	7.5	8.0	8.5
0601 - 1200	9.0	9.7	10.5	7.5	7.7	8.0	7.0	7.2	7.5	7.5	7.7	8.0
1201 - 1800	11.5	11.8	12.0	9.0	9.3	9.5	8.0	8.7	9.0	9.0	10.3	11.5
1801 - 2400	9.5	10.7	11.5	8.5	9.0	9.5	8.0	8.7	9.0	9.5	10.7	11.5
DAILY VALUE	9.0	10.4	12.0	7.5	8.5	9.5	7.0	8.0	9.0	7.5	9.2	11.5
0001 - 0600	8.0	8.5	9.0	7.5	7.7	8.0	6.5	6.8	7.5	6.5	7.3	8.0
0601 - 1200	8.0	9.2	10.5	7.0	7.7	8.5	6.0	6.5	7.0	6.0	6.0	6.0
1201 - 1800	12.0	12.3	12.5	10.0	10.8	11.5	8.0	9.0	10.0	7.5	9.2	11.0
1801 - 2400	9.5	10.7	12.0	8.5	9.8	11.0	8.5	9.3	10.0	9.0	10.0	11.0
DAILY VALUE	8.0	10.2	12.5	7.0	9.0	11.5	6.0	7.9	10.0	6.0	8.1	11.0
0001 - 0600	7.5	8.2	9.0	6.5	7.2	8.0	6.5	7.0	7.5	6.5	7.2	8.0
0601 - 1200	7.5	8.8	10.5	6.5	7.0	8.0	6.5	7.0	7.5	6.5	6.5	6.5
1201 - 1800	12.5	13.2	13.5	10.0	10.8	12.0	9.5	10.5	11.5	7.0	8.0	9.0
1801 - 2400	10.0	11.3	12.5	9.0	10.2	11.5	9.0	10.0	11.0	9.0	9.3	9.5
DAILY VALUE	7.5	10.4	13.5	6.5	8.8	12.0	6.5	8.6	11.5	6.5	7.7	9.5
0001 - 0600	8.0	8.5	9.0	7.5	7.8	8.5	7.0	7.5	8.0	7.5	8.0	8.5
0601 - 1200	8.0	8.8	10.0	7.5	7.8	8.5	6.5	6.8	7.5	7.0	7.2	7.5
1201 - 1800	12.5	13.0	13.5	10.5	11.7	12.5	9.5	11.2	12.5	8.0	8.2	8.5
1801 - 2400	10.0	11.0	12.0	10.0	11.0	12.0	9.5	10.8	12.0	8.0	8.3	8.5
DAILY VALUE	8.0	10.3	13.5	7.5	9.6	12.5	6.5	9.1	12.5	7.0	7.9	8.5
0001 - 0600	7.5	8.3	9.0	8.5	8.7	9.0	7.0	7.7	8.5	7.0	7.5	8.0
0601 - 1200	7.5	8.2	9.5	8.0	8.0	8.0	6.5	6.7	7.0	7.0	7.0	7.0
1201 - 1800	10.5	11.5	12.5	8.0	8.5	9.0	8.5	10.5	12.0	7.5	7.7	8.0
1801 - 2400	9.5	10.8	12.0	8.5	8.8	9.0	10.0	11.2	12.5	7.5	7.7	8.0
DAILY VALUE	7.5	9.7	12.5	8.0	8.5	9.0	6.5	9.0	12.5	7.0	7.5	8.0
0001 - 0600	7.5	8.0	8.5	7.0	7.5	8.0	8.0	8.5	9.0	7.0	7.0	7.0
0601 - 1200	7.5	7.8	8.5	7.0	7.5	8.0	8.0	8.2	8.5	7.0	7.0	7.0
1201 - 1800	10.0	10.3	10.5	9.0	10.5	11.5	9.0	9.8	10.5	7.5	8.2	9.0
1801 - 2400	8.5	9.3	10.0	9.0	10.0	11.0	9.5	10.3	11.0	8.0	8.5	9.0
DAILY VALUE	7.5	8.9	10.5	7.0	8.9	11.5	8.0	9.2	11.0	7.0	7.7	9.0
0001 - 0600	7.0	7.5	8.0	7.5	7.8	8.0	8.0	8.3	9.0	MONTHLY VALUE		
0601 - 1200	6.5	7.3	8.5	7.5	8.2	9.0	7.5	7.7	8.0			
1201 - 1800	11.0	11.7	12.0	10.5	11.7	12.5	8.5	9.7	11.0	6.0 8.9 13.5		
1801 - 2400	9.5	10.3	11.5	9.5	10.7	12.0	10.0	10.5	11.0			
DAILY VALUE	6.5	9.2	12.0	7.5	9.6	12.5	7.5	9.0	11.0			

Appendix Table 4-C-14 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	7.5	7.5	7.5	7.0	7.2	7.5	----	----	----	3.9	4.1	4.4
0601 - 1200	7.5	7.7	8.0	7.0	7.0	7.0	----	----	----	3.4	3.7	4.4
1201 - 1800	9.0	10.2	11.0	7.0	7.7	8.0	----	----	----	4.9	5.2	5.4
1801 - 2400	8.5	9.2	10.0	7.5	7.8	8.0	----	----	----	4.9	5.1	5.4
DAILY VALUE	7.5	8.6	11.0	7.0	7.4	8.0	----	----	----	3.4	4.5	5.4
0001 - 0600	7.5	7.7	8.0	6.5	6.8	7.0	----	----	----	4.9	4.9	4.9
0601 - 1200	7.0	7.2	7.5	6.5	6.7	7.0	----	----	----	4.9	4.9	4.9
1201 - 1800	8.0	8.7	9.5	7.5	7.8	8.0	----	----	----	5.4	5.4	5.4
1801 - 2400	8.0	8.7	9.0	7.5	7.8	8.0	----	----	----	4.9	5.1	5.4
DAILY VALUE	7.0	8.0	9.5	6.5	7.3	8.0	----	----	----	4.9	5.1	5.4
0001 - 0600	7.5	7.7	8.0	6.5	6.7	7.0	----	----	----	4.9	4.9	4.9
0601 - 1200	7.5	7.5	7.5	6.5	6.5	6.5	----	----	----	4.9	4.9	4.9
1201 - 1800	7.5	7.7	8.0	6.5	6.8	7.0	----	----	----	5.4	5.6	5.9
1801 - 2400	7.5	7.8	8.0	6.5	6.8	7.0	----	----	----	4.4	4.9	5.4
DAILY VALUE	7.5	7.7	8.0	6.5	6.7	7.0	----	----	----	4.4	5.1	5.9
0001 - 0600	7.0	7.0	7.0	5.5	5.7	6.0	----	----	----	3.4	3.7	3.9
0601 - 1200	7.0	7.0	7.0	5.0	5.2	5.5	----	----	----	3.4	3.6	3.9
1201 - 1800	7.5	8.3	9.0	6.0	6.8	7.5	6.9	6.9	6.9	4.4	4.7	4.9
1801 - 2400	7.5	8.0	8.5	6.5	7.0	7.5	6.4	6.4	6.4	4.9	4.9	4.9
DAILY VALUE	7.0	7.6	9.0	5.0	6.2	7.5	6.4	----	6.9	3.4	4.2	4.9
0001 - 0600	6.5	6.7	7.0	6.0	6.2	6.5	6.4	6.4	6.4	4.4	4.4	4.4
0601 - 1200	6.5	6.7	7.0	6.0	6.0	6.0	6.4	6.4	6.4	4.4	4.4	4.4
1201 - 1800	7.5	7.8	8.0	6.0	6.3	6.5	6.4	6.4	6.4	4.9	5.4	5.9
1801 - 2400	7.5	7.8	8.0	6.5	6.5	6.5	5.9	6.2	6.4	4.9	5.2	5.4
DAILY VALUE	6.5	7.2	8.0	6.0	6.2	6.5	5.9	6.4	6.4	4.4	4.9	5.9
0001 - 0600	7.0	7.2	7.5	----	----	----	5.9	5.9	5.9	4.9	4.9	4.9
0601 - 1200	7.0	7.0	7.0	----	----	----	5.9	5.9	5.9	4.9	4.9	4.9
1201 - 1800	7.5	7.8	8.0	----	----	----	6.4	6.6	6.9	5.4	5.6	5.9
1801 - 2400	7.5	7.7	8.0	----	----	----	4.9	5.4	5.9	4.9	5.2	5.4
DAILY VALUE	7.0	7.4	8.0	----	----	----	4.9	5.9	6.9	4.9	5.1	5.9
0001 - 0600	7.0	7.0	7.0	----	----	----	4.9	4.9	4.9	----	----	----
0601 - 1200	7.0	7.2	7.5	----	----	----	4.9	4.9	4.9	----	----	----
1201 - 1800	8.0	8.5	9.0	----	----	----	5.9	5.9	5.9	----	----	----
1801 - 2400	8.0	8.2	8.5	----	----	----	3.9	4.7	5.4	----	----	----
DAILY VALUE	7.0	7.7	9.0	----	----	----	3.9	5.1	5.9	----	----	----
0001 - 0600	7.0	7.3	7.5	----	----	----	3.4	3.6	3.9	-----	-----	-----
0601 - 1200	7.0	7.2	7.5	----	----	----	2.9	3.2	3.9	MONTHLY VALUE		
1201 - 1800	8.0	8.2	8.5	----	----	----	4.9	5.2	5.4	-----	-----	-----
1801 - 2400	7.5	8.0	8.5	----	----	----	4.9	5.1	5.4	2.9	6.4	11.0
DAILY VALUE	7.0	7.7	8.5	----	----	----	2.9	4.3	5.4	-----	-----	-----

Appendix Table 4-C-14 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	4.9	4.9	4.9	1.7	1.7	1.7	1.7	1.7	1.7	.7	.7	.7
0601 - 1200	4.4	4.4	4.4	2.2	2.4	2.7	1.7	2.0	2.2	.7	.9	1.2
1201 - 1800	4.7	4.7	4.7	3.2	3.4	3.7	2.7	2.7	2.7	1.2	1.2	1.2
1801 - 2400	3.7	3.9	4.2	2.7	2.9	3.2	1.7	2.0	2.2	.7	.9	1.2
DAILY VALUE	3.7	4.5	4.9	1.7	2.6	3.7	1.7	2.1	2.7	.7	.9	1.2
0001 - 0600	3.7	3.7	3.7	2.7	2.7	2.7	1.7	1.7	1.7	.7	.7	.7
0601 - 1200	3.7	3.9	4.2	2.7	2.7	2.7	1.7	1.7	1.7	.7	.7	.7
1201 - 1800	4.7	5.0	5.2	3.2	3.2	3.2	2.2	2.2	2.2	.7	.7	.7
1801 - 2400	3.7	4.2	4.7	2.7	2.7	2.7	2.2	2.2	2.2	.7	.7	.7
DAILY VALUE	3.7	4.2	5.2	2.7	2.8	3.2	1.7	1.9	2.2	.7	.7	.7
0001 - 0600	3.2	3.5	3.7	2.2	2.2	2.2	2.2	2.2	2.2	.7	.7	.7
0601 - 1200	3.2	3.4	3.7	2.2	2.2	2.2	1.7	1.9	2.2	.7	.7	.7
1201 - 1800	3.7	4.0	4.2	2.2	2.4	2.7	1.7	2.0	2.2	.7	.7	.7
1801 - 2400	3.7	3.9	4.2	2.2	2.2	2.2	2.2	2.2	2.2	.7	.7	.7
DAILY VALUE	3.2	3.7	4.2	2.2	2.2	2.7	1.7	2.1	2.2	.7	.7	.7
0001 - 0600	2.7	2.9	3.2	1.7	1.7	1.7	2.2	2.2	2.2	.7	.7	.7
0601 - 1200	2.2	2.2	2.2	1.7	1.7	1.7	1.7	2.0	2.2	.7	.7	.7
1201 - 1800	2.7	3.0	3.2	2.2	2.4	2.7	2.2	2.2	2.2	.7	.7	.7
1801 - 2400	2.2	2.7	3.2	2.2	2.2	2.2	1.7	1.9	2.2	.7	.7	.7
DAILY VALUE	2.2	2.7	3.2	1.7	2.0	2.7	1.7	2.1	2.2	.7	.7	.7
0001 - 0600	1.7	1.9	2.2	1.7	1.9	2.2	1.2	1.4	1.7	.7	.7	.7
0601 - 1200	1.7	1.7	1.7	1.7	1.7	1.7	1.2	1.2	1.2	.7	.9	1.2
1201 - 1800	2.2	2.5	2.7	2.2	2.2	2.2	1.2	1.4	1.7	1.2	1.2	1.2
1801 - 2400	1.7	2.0	2.2	2.2	2.2	2.2	1.2	1.2	1.2	.7	.7	.7
DAILY VALUE	1.7	2.0	2.7	1.7	2.0	2.2	1.2	1.3	1.7	.7	.9	1.2
0001 - 0600	1.2	1.4	1.7	1.7	1.7	1.7	1.2	1.2	1.2	.7	.7	.7
0601 - 1200	1.2	1.4	1.7	1.7	1.7	1.7	1.2	1.2	1.2	.7	.7	.7
1201 - 1800	2.2	2.5	2.7	2.2	2.4	2.7	1.2	1.5	1.7	----	----	----
1801 - 2400	2.7	2.7	2.7	1.2	1.7	2.2	1.2	1.4	1.7	----	----	----
DAILY VALUE	1.2	2.0	2.7	1.2	1.9	2.7	1.2	1.3	1.7	.7	----	.7
0001 - 0600	2.2	2.2	2.2	1.2	1.5	1.7	1.2	1.2	1.2	----	----	----
0601 - 1200	2.2	2.2	2.2	1.2	1.4	1.7	1.2	1.2	1.2	----	----	----
1201 - 1800	2.2	2.5	2.7	1.7	2.0	2.2	1.2	1.4	1.7	----	----	----
1801 - 2400	2.2	2.5	2.7	1.7	1.7	1.7	1.2	1.2	1.2	----	----	----
DAILY VALUE	2.2	2.4	2.7	1.2	1.7	2.2	1.2	1.2	1.7	----	----	----
0001 - 0600	1.7	1.9	2.2	1.7	1.7	1.7	1.2	1.2	1.2	MONTHLY VALUE		
0601 - 1200	1.7	2.0	2.2	1.7	1.7	1.7	1.2	1.2	1.2			
1201 - 1800	2.7	3.0	3.2	1.7	1.7	1.7	1.2	1.5	1.7			
1801 - 2400	1.7	2.2	2.7	1.7	1.7	1.7	1.2	1.4	1.7			
DAILY VALUE	1.7	2.3	3.2	1.7	1.7	1.7	1.2	1.3	1.7			

Appendix A Table 4-C-15 Thermograph data summary, summer surface water temperature (C),
LRX 35, RM 130.8, Geocode S30N03W03DCA.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	8.4	8.4	8.4	7.9	7.9	7.9
0601 - 1200	----	----	----	----	----	----	7.9	7.9	7.9	7.9	7.9	7.9
1201 - 1800	----	----	----	14.4	14.4	14.4	7.9	7.9	7.9	8.9	8.9	8.9
1801 - 2400	----	----	----	13.9	14.1	14.4	7.9	7.9	7.9	8.9	8.9	8.9
DAILY VALUE	----	----	----	13.9	----	14.4	7.9	8.0	8.4	7.9	8.4	8.9
0001 - 0600	----	----	----	12.9	13.1	13.4	7.9	7.9	7.9	8.9	8.9	8.9
0601 - 1200	----	----	----	12.4	12.4	12.4	7.9	7.9	7.9	8.9	8.9	8.9
1201 - 1800	----	----	----	12.4	12.4	12.4	7.9	7.9	7.9	8.9	9.1	9.4
1801 - 2400	----	----	----	11.9	12.1	12.4	7.9	7.9	7.9	9.4	9.6	9.9
DAILY VALUE	----	----	----	11.9	12.5	13.4	7.9	7.9	7.9	8.9	9.1	9.9
0001 - 0600	----	----	----	11.4	11.6	11.9	7.9	7.9	7.9	9.9	10.1	10.4
0601 - 1200	----	----	----	10.9	11.1	11.4	7.9	7.9	7.9	10.4	10.4	10.4
1201 - 1800	----	----	----	10.9	10.9	10.9	7.9	7.9	7.9	-----	-----	-----
1801 - 2400	----	----	----	10.9	10.9	10.9	7.9	8.1	8.4	-----	-----	-----
DAILY VALUE	----	----	----	10.9	11.1	11.9	7.9	7.9	8.4	9.9	-----	10.4
0001 - 0600	----	----	----	10.9	10.9	10.9	8.4	8.4	8.4	-----	-----	-----
0601 - 1200	----	----	----	10.9	10.9	10.9	8.4	8.4	8.4	-----	-----	-----
1201 - 1800	----	----	----	10.9	10.9	10.9	8.4	8.4	8.4	12.9	-----	12.9
1801 - 2400	----	----	----	10.9	10.9	10.9	8.4	8.4	8.4	12.9	12.9	12.9
DAILY VALUE	----	----	----	10.9	10.9	10.9	8.4	8.4	8.4	12.9	-----	12.9
0001 - 0600	----	----	----	10.9	10.9	10.9	8.4	8.4	8.4	12.9	12.9	12.9
0601 - 1200	----	----	----	10.4	10.6	10.9	8.4	8.4	8.4	12.4	12.7	12.9
1201 - 1800	----	----	----	10.4	10.4	10.4	8.4	8.4	8.4	12.4	12.4	12.4
1801 - 2400	----	----	----	10.4	10.4	10.4	8.4	8.4	8.4	11.9	12.2	12.4
DAILY VALUE	----	----	----	10.4	10.6	10.9	8.4	8.4	8.4	11.9	12.6	12.9
0001 - 0600	----	----	----	10.4	10.4	10.4	8.4	8.4	8.4	11.9	11.9	11.9
0601 - 1200	----	----	----	9.9	9.9	9.9	8.4	8.4	8.4	11.4	11.4	11.4
1201 - 1800	----	----	----	9.9	9.9	9.9	8.4	8.4	8.4	11.4	11.4	11.4
1801 - 2400	----	----	----	9.4	9.7	9.9	8.4	8.4	8.4	10.9	10.9	10.9
DAILY VALUE	----	----	----	9.4	10.0	10.4	8.4	8.4	8.4	10.9	11.4	11.9
0001 - 0600	----	----	----	9.4	9.4	9.4	8.4	8.4	8.4	10.4	10.4	10.4
0601 - 1200	----	----	----	8.9	9.1	9.4	8.4	8.4	8.4	10.4	10.4	10.4
1201 - 1800	----	----	----	8.9	8.9	8.9	7.9	8.2	8.4	10.4	10.4	10.4
1801 - 2400	----	----	----	8.9	8.9	8.9	7.9	7.9	7.9	10.4	10.4	10.4
DAILY VALUE	----	----	----	8.9	9.1	9.4	7.9	8.2	8.4	10.4	10.4	10.4
0001 - 0600	----	----	----	8.4	8.7	8.9	7.9	7.9	7.9	-----	-----	-----
0601 - 1200	----	----	----	8.4	8.4	8.4	7.9	7.9	7.9	MONTHLY VALUE		
1201 - 1800	----	----	----	8.4	8.4	8.4	7.9	7.9	7.9	-----	-----	-----
1801 - 2400	----	----	----	8.4	8.4	8.4	7.9	7.9	7.9	7.9	-----	14.4
DAILY VALUE	----	----	----	8.4	8.5	8.9	7.9	7.9	7.9	-----	-----	-----

Table 4-C-15 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	9.9	10.1	10.4	---	---	---	---	---	---	---	---	---
0601 - 1200	9.4	9.4	9.4	---	---	---	---	---	---	---	---	---
1201 - 1800	9.4	9.6	9.9	---	---	---	---	---	---	---	---	---
1801 - 2400	9.9	9.9	9.9	---	---	---	---	---	---	---	---	---
DAILY VALUE	9.4	9.7	10.4	---	---	---	---	---	---	---	---	---
0001 - 0600	9.4	9.4	9.4	---	---	---	---	---	---	---	---	---
0601 - 1200	9.4	9.4	9.4	---	---	---	---	---	---	---	---	---
1201 - 1800	9.4	9.4	9.4	---	---	---	---	---	---	---	---	---
1801 - 2400	9.4	9.4	9.4	---	---	---	---	---	---	---	---	---
DAILY VALUE	9.4	9.4	9.4	---	---	---	---	---	---	---	---	---
0001 - 0600	9.4	9.4	9.4	---	---	---	---	---	---	---	---	---
0601 - 1200	8.9	9.1	9.4	---	---	---	---	---	---	---	---	---
1201 - 1800	8.9	9.2	9.4	---	---	---	---	---	---	---	---	---
1801 - 2400	11.4	11.4	11.4	---	---	---	---	---	---	---	---	---
DAILY VALUE	8.9	9.8	11.4	---	---	---	---	---	---	---	---	---
0001 - 0600	11.4	11.4	11.4	---	---	---	---	---	---	---	---	---
0601 - 1200	11.4	11.4	11.4	---	---	---	---	---	---	---	---	---
1201 - 1800	11.4	---	11.4	---	---	---	---	---	---	---	---	---
1801 - 2400	---	---	---	---	---	---	---	---	---	---	---	---
DAILY VALUE	11.4	---	11.4	---	---	---	---	---	---	---	---	---
0001 - 0600	---	---	---	---	---	---	---	---	---	---	---	---
0601 - 1200	---	---	---	---	---	---	---	---	---	---	---	---
1201 - 1800	---	---	---	---	---	---	---	---	---	---	---	---
1801 - 2400	---	---	---	---	---	---	---	---	---	---	---	---
DAILY VALUE	---	---	---	---	---	---	---	---	---	---	---	---
0001 - 0600	---	---	---	---	---	---	---	---	---	---	---	---
0601 - 1200	---	---	---	---	---	---	---	---	---	---	---	---
1201 - 1800	---	---	---	---	---	---	---	---	---	---	---	---
1801 - 2400	---	---	---	---	---	---	---	---	---	---	---	---
DAILY VALUE	---	---	---	---	---	---	---	---	---	---	---	---
0001 - 0600	---	---	---	---	---	---	---	---	---	---	---	---
0601 - 1200	---	---	---	---	---	---	---	---	---	---	---	---
1201 - 1800	---	---	---	---	---	---	---	---	---	---	---	---
1801 - 2400	---	---	---	---	---	---	---	---	---	---	---	---
DAILY VALUE	---	---	---	---	---	---	---	---	---	---	---	---
0001 - 0600	---	---	---	---	---	---	---	---	---	MONTHLY VALUE		
0601 - 1200	---	---	---	---	---	---	---	---	---			
1201 - 1800	---	---	---	---	---	---	---	---	---			
1801 - 2400	---	---	---	---	---	---	---	---	---			
DAILY VALUE	---	---	---	---	---	---	---	---	---	8.9 --- 11.4		

Appendix A Table 4-C-15 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	---	---	---	7.1	7.1	7.1	6.6	6.9	7.1	---	---	---
0601 - 1200	---	---	---	7.1	7.1	7.1	6.6	6.6	6.6	---	---	---
1201 - 1800	---	---	---	7.6	7.6	7.6	6.6	6.6	6.6	---	---	---
1801 - 2400	---	---	---	7.1	7.4	7.6	6.6	6.6	6.6	---	---	---
DAILY VALUE	---	---	---	7.1	7.3	7.6	6.6	6.7	7.1	---	---	---
0001 - 0600	---	---	---	7.1	7.1	7.1	6.1	6.4	6.6	---	---	---
0601 - 1200	---	---	---	7.1	7.1	7.1	6.1	6.1	6.1	---	---	---
1201 - 1800	8.1	8.3	8.6	7.1	7.1	7.1	6.1	6.1	6.1	---	---	---
1801 - 2400	7.6	7.8	8.1	6.6	6.8	7.1	6.1	6.1	6.1	---	---	---
DAILY VALUE	7.6	---	8.6	6.6	7.0	7.1	6.1	6.2	6.6	---	---	---
0001 - 0600	7.6	7.6	7.6	6.6	6.6	6.6	---	---	---	---	---	---
0601 - 1200	7.6	7.6	7.6	6.1	6.1	6.1	---	---	---	---	---	---
1201 - 1800	7.6	7.6	7.6	6.1	6.1	6.1	---	---	---	---	---	---
1801 - 2400	7.6	7.6	7.6	5.6	5.9	6.1	---	---	---	---	---	---
DAILY VALUE	7.6	7.6	7.6	5.6	6.2	6.6	---	---	---	---	---	---
0001 - 0600	7.6	7.6	7.6	5.6	5.6	5.6	---	---	---	---	---	---
0601 - 1200	7.1	7.3	7.6	5.6	5.6	5.6	---	---	---	---	---	---
1201 - 1800	7.6	7.6	7.6	6.1	6.1	6.1	---	---	---	---	---	---
1801 - 2400	7.1	7.3	7.6	5.6	5.6	5.6	---	---	---	---	---	---
DAILY VALUE	7.1	7.4	7.6	5.6	5.7	6.1	---	---	---	---	---	---
0001 - 0600	7.1	7.1	7.1	5.6	5.6	5.6	---	---	---	---	---	---
0601 - 1200	7.1	7.1	7.1	5.6	5.6	5.6	---	---	---	---	---	---
1201 - 1800	7.1	7.3	7.6	5.6	5.6	5.6	---	---	---	---	---	---
1801 - 2400	7.1	7.1	7.1	5.6	5.6	5.6	---	---	---	---	---	---
DAILY VALUE	7.1	7.1	7.6	5.6	5.6	5.6	---	---	---	---	---	---
0001 - 0600	7.1	7.1	7.1	5.6	5.8	6.1	---	---	---	---	---	---
0601 - 1200	7.1	7.1	7.1	6.1	6.1	6.1	---	---	---	---	---	---
1201 - 1800	7.6	7.6	7.6	6.1	6.1	6.1	---	---	---	---	---	---
1801 - 2400	7.6	7.6	7.6	6.1	6.1	6.1	---	---	---	---	---	---
DAILY VALUE	7.1	7.3	7.6	5.6	6.0	6.1	---	---	---	---	---	---
0001 - 0600	7.6	7.6	7.6	6.1	6.1	6.1	---	---	---	---	---	---
0601 - 1200	7.6	7.6	7.6	6.1	6.1	6.1	---	---	---	---	---	---
1201 - 1800	8.1	8.4	8.6	6.6	6.6	6.6	---	---	---	---	---	---
1801 - 2400	8.1	8.1	8.1	6.6	6.9	7.1	---	---	---	---	---	---
DAILY VALUE	7.6	7.9	8.6	6.1	6.4	7.1	---	---	---	---	---	---
0001 - 0600	8.1	8.1	8.1	7.1	7.4	7.6	---	---	---	MONTHLY VALUE		
0601 - 1200	8.1	8.1	8.1	7.1	7.1	7.1	---	---	---			
1201 - 1800	8.1	8.1	8.1	7.1	7.1	7.1	---	---	---			
1801 - 2400	7.6	7.6	7.6	7.1	7.1	7.1	---	---	---	5.6		
DAILY VALUE	7.6	8.0	8.1	7.1	7.2	7.6	---	---	---	8.6		

4-C-54

Appendix Table 4-C-16 Thermograph data summary, summer surface water temperature (C),
Indian River, RM 138.6, Geocode S31N02W09CDA.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	2.5	2.8	3.0	3.5	3.7	4.0	4.5	5.0	5.5
0601 - 1200	----	----	----	3.0	3.5	4.0	5.5	6.7	7.5	5.0	5.8	7.0
1201 - 1800	----	----	----	4.5	4.5	4.5	6.0	6.8	7.5	8.5	8.5	8.5
1801 - 2400	----	----	----	3.5	4.0	4.5	3.5	4.2	5.0	6.0	6.8	7.5
DAILY VALUE	----	----	----	2.5	3.7	4.5	3.5	5.3	7.5	4.5	6.5	8.5
0001 - 0600	----	----	----	3.5	3.5	3.5	3.5	3.8	4.5	5.0	5.2	5.5
0601 - 1200	----	----	----	3.5	4.0	4.5	5.5	5.8	6.0	5.0	6.0	7.0
1201 - 1800	----	----	----	4.5	4.8	5.0	4.5	5.2	5.5	8.5	8.5	8.5
1801 - 2400	----	----	----	3.5	4.0	4.5	4.0	4.3	4.5	6.5	7.5	8.5
DAILY VALUE	----	----	----	3.5	4.1	5.0	3.5	4.8	6.0	5.0	6.8	8.5
0001 - 0600	----	----	----	3.5	3.5	3.5	3.5	4.2	5.0	5.0	5.2	5.5
0601 - 1200	----	----	----	3.5	3.7	4.0	6.5	7.2	7.5	5.0	6.0	7.0
1201 - 1800	----	----	----	5.0	5.0	5.0	6.5	6.7	7.0	7.5	7.7	8.0
1801 - 2400	----	----	----	4.0	4.3	4.5	4.5	5.0	5.5	6.5	7.0	7.5
DAILY VALUE	----	----	----	3.5	4.1	5.0	3.5	5.7	7.5	5.0	6.5	8.0
0001 - 0600	----	----	----	3.5	3.5	3.5	4.5	4.5	4.5	5.5	5.7	6.0
0601 - 1200	----	----	----	3.5	4.0	4.5	4.5	4.5	4.5	6.0	6.5	7.5
1201 - 1800	----	----	----	4.5	5.0	5.5	4.5	4.5	4.5	7.5	7.5	7.5
1801 - 2400	----	----	----	3.5	3.8	4.5	3.5	3.8	4.0	6.0	6.8	7.5
DAILY VALUE	----	----	----	3.5	4.1	5.5	3.5	4.3	4.5	5.5	6.6	7.5
0001 - 0600	----	----	----	2.5	2.7	3.0	3.5	4.0	4.5	5.5	5.5	5.5
0601 - 1200	----	----	----	3.0	3.7	4.5	5.0	5.2	5.5	5.5	5.7	6.0
1201 - 1800	----	----	----	5.0	5.3	5.5	6.5	---	6.5	7.0	7.3	7.5
1801 - 2400	----	----	----	4.0	4.7	5.5	5.0	5.7	6.0	6.5	7.0	7.5
DAILY VALUE	----	----	----	2.5	4.1	5.5	3.5	5.1	6.5	5.5	6.4	7.5
0001 - 0600	----	----	----	3.5	3.8	4.5	4.0	4.2	4.5	5.5	5.7	6.0
0601 - 1200	----	----	----	5.5	6.3	7.0	4.0	5.0	6.0	5.5	6.2	7.0
1201 - 1800	----	----	----	6.0	6.5	7.0	6.5	6.5	6.5	7.0	7.3	7.5
1801 - 2400	----	----	----	4.5	4.8	5.5	5.5	6.0	6.5	6.0	6.5	7.0
DAILY VALUE	----	----	----	3.5	5.4	7.0	4.0	5.4	6.5	5.5	6.4	7.5
0001 - 0600	----	----	----	4.0	4.0	4.0	4.5	4.7	5.0	----	----	----
0601 - 1200	----	----	----	4.0	4.3	4.5	4.5	5.5	6.5	----	----	----
1201 - 1800	----	----	----	4.0	4.2	4.5	8.0	8.2	8.5	----	----	----
1801 - 2400	----	----	----	3.5	3.7	4.0	6.0	7.2	8.0	----	----	----
DAILY VALUE	----	----	----	3.5	4.0	4.5	4.5	6.4	8.5	----	----	----
0001 - 0600	----	----	----	3.5	3.5	3.5	4.5	4.7	5.0	MONTHLY VALUE		
0601 - 1200	4.5	----	4.5	4.0	4.2	4.5	4.5	5.3	6.5			
1201 - 1800	5.5	5.5	5.5	4.0	4.3	4.5	8.5	8.8	9.0			
1801 - 2400	3.5	4.0	4.5	3.5	3.7	4.0	6.0	7.3	8.5	2.5	5.3	9.0
DAILY VALUE	3.5	----	5.5	3.5	3.9	4.5	4.5	6.5	9.0			

4-C-55

Appendix Table 4-C-16 Cont.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	5.5	5.7	6.0	7.5	7.7	8.0	7.0	7.3	7.5	7.0	7.0	7.0
0601 - 1200	5.5	6.2	7.0	8.0	8.2	8.5	7.0	7.5	8.0	7.0	7.0	7.0
1201 - 1800	7.0	7.0	7.0	9.0	9.3	9.5	9.5	9.8	10.0	7.0	7.0	7.0
1801 - 2400	6.0	6.5	7.0	8.5	9.0	9.5	8.5	9.0	9.5	7.0	7.0	7.0
DAILY VALUE	5.5	6.3	7.0	7.5	8.5	9.5	7.0	8.4	10.0	7.0	7.0	7.0
0001 - 0600	5.0	5.3	5.5	7.0	7.5	8.0	7.5	7.8	8.0	6.5	6.7	7.0
0601 - 1200	5.0	5.7	6.5	7.0	7.3	7.5	7.5	7.5	7.5	6.5	6.5	6.5
1201 - 1800	7.5	8.2	8.5	8.0	8.0	8.0	8.0	8.2	8.5	6.5	6.7	7.0
1801 - 2400	6.5	7.2	8.0	7.5	7.7	8.0	8.0	8.3	8.5	7.0	7.0	7.0
DAILY VALUE	5.0	6.6	8.5	7.0	7.6	8.0	7.5	8.0	8.5	6.5	6.7	7.0
0001 - 0600	5.0	5.2	5.5	7.0	7.0	7.0	6.5	7.0	7.5	6.5	6.7	7.0
0601 - 1200	5.0	6.5	8.0	7.0	7.5	8.0	6.5	7.7	9.0	6.5	6.7	7.0
1201 - 1800	9.0	9.5	10.0	8.0	8.2	8.5	10.5	11.2	11.5	7.5	7.7	8.0
1801 - 2400	7.0	8.0	9.0	7.5	7.8	8.0	9.0	10.0	11.0	7.0	7.5	8.0
DAILY VALUE	5.0	7.3	10.0	7.0	7.6	8.5	6.5	9.0	11.5	6.5	7.1	8.0
0001 - 0600	6.0	6.2	6.5	7.0	7.2	7.5	7.5	7.8	8.5	7.0	7.0	7.0
0601 - 1200	6.0	7.0	8.0	7.0	7.0	7.0	7.5	8.3	9.5	7.0	7.2	7.5
1201 - 1800	9.0	9.0	9.0	7.5	7.5	7.5	11.0	12.0	12.5	8.5	8.8	9.0
1801 - 2400	7.0	7.8	8.5	7.0	7.3	7.5	9.5	10.5	11.5	8.0	8.5	9.0
DAILY VALUE	6.0	7.5	9.0	7.0	7.2	7.5	7.5	9.7	12.5	7.0	7.9	9.0
0001 - 0600	6.0	6.2	6.5	6.5	6.8	7.0	8.5	8.7	9.0	7.5	7.5	7.5
0601 - 1200	6.0	7.0	8.0	6.5	7.0	7.5	8.5	8.5	8.5	7.5	7.5	7.5
1201 - 1800	8.5	8.8	9.0	8.0	8.8	9.5	8.5	8.8	9.0	8.0	8.0	8.0
1801 - 2400	7.5	7.7	8.0	8.5	9.0	9.5	8.5	8.7	9.0	7.5	7.8	8.0
DAILY VALUE	6.0	7.4	9.0	6.5	7.9	9.5	8.5	8.7	9.0	7.5	7.7	8.0
0001 - 0600	6.5	6.7	7.0	7.0	7.2	7.5	8.0	8.2	8.5	7.0	7.3	7.5
0601 - 1200	6.5	7.3	8.0	7.0	7.7	8.5	7.5	7.7	8.0	7.0	7.3	7.5
1201 - 1800	9.0	9.3	9.5	8.5	9.3	10.0	8.0	8.0	8.0	7.5	7.5	7.5
1801 - 2400	8.0	8.5	9.0	8.5	9.0	9.5	7.5	7.8	8.0	7.5	7.7	8.0
DAILY VALUE	6.5	8.0	9.5	7.0	8.3	10.0	7.5	7.9	8.5	7.0	7.5	8.0
0001 - 0600	6.0	6.5	7.0	7.5	7.7	8.0	7.5	7.5	7.5	7.0	7.2	7.5
0601 - 1200	6.5	7.8	9.5	7.5	7.8	8.5	7.5	7.5	7.5	7.0	7.3	7.5
1201 - 1800	11.0	11.3	11.5	9.5	9.5	9.5	7.5	7.5	7.5	8.0	8.0	8.0
1801 - 2400	9.0	10.0	11.0	8.0	8.7	9.5	7.5	7.5	7.5	7.5	7.7	8.0
DAILY VALUE	6.0	8.9	11.5	7.5	8.4	9.5	7.5	7.5	7.5	7.0	7.5	8.0
0001 - 0600	7.5	8.0	8.5	7.0	7.3	7.5	7.0	7.2	7.5	MONTHLY VALUE		
0601 - 1200	8.0	8.8	9.5	7.0	7.3	7.5	7.0	7.0	7.0			
1201 - 1800	9.5	9.8	10.0	8.0	8.7	9.0	7.0	7.0	7.0	5.0 7.8 12.5		
1801 - 2400	8.0	8.5	9.0	8.0	8.5	9.0	7.0	7.0	7.0			
DAILY VALUE	7.5	8.8	10.0	7.0	8.0	9.0	7.0	7.0	7.5			

Table 4-5-16 Cont.

- AUGUST 1982 -

[illegible]

4-C-57

Appendix Table 4-C-17 Thermograph data summary, summer surface water temperature (C),
LRX 53, RM 140.1, Geocode S31N11W10AAC.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	10.7	10.9	11.2	10.7	10.7	10.7	10.7	10.9	11.2
0601 - 1200	----	----	----	10.7	10.7	10.7	10.2	10.5	10.7	10.7	10.7	10.7
1201 - 1800	----	----	----	10.2	10.2	10.2	10.2	10.2	10.2	10.7	10.7	10.7
1801 - 2400	----	----	----	10.2	10.2	10.2	9.7	9.9	10.2	10.7	10.7	10.7
DAILY VALUE	----	----	----	10.2	10.5	11.2	9.7	10.3	10.7	10.7	10.7	11.2
0001 - 0600	----	----	----	10.2	10.2	10.2	9.7	9.7	9.7	10.7	10.7	10.7
0601 - 1200	----	----	----	10.2	10.2	10.2	9.7	10.0	10.2	10.7	10.7	10.7
1201 - 1800	----	----	----	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.4	10.7
1801 - 2400	----	----	----	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
DAILY VALUE	----	----	----	10.2	10.2	10.2	9.7	10.0	10.2	10.2	10.5	10.7
0001 - 0600	----	----	----	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
0601 - 1200	----	----	----	10.2	10.5	10.7	10.2	10.2	10.2	10.2	10.2	10.2
1201 - 1800	----	----	----	10.7	10.7	10.7	10.7	10.7	10.7	10.2	10.2	10.2
1801 - 2400	----	----	----	10.2	10.5	10.7	10.2	10.4	10.7	9.7	10.0	10.2
DAILY VALUE	----	----	----	10.2	10.5	10.7	10.2	10.4	10.7	9.7	10.2	10.2
0001 - 0600	----	----	----	10.2	10.2	10.2	10.2	10.2	10.2	9.2	9.5	9.7
0601 - 1200	----	----	----	10.2	10.5	10.7	10.7	10.9	11.2	9.2	9.4	9.7
1201 - 1800	12.2	12.2	12.2	11.2	11.2	11.2	11.2	11.2	11.2	9.7	9.7	9.7
1801 - 2400	12.2	12.2	12.2	10.7	10.7	10.7	10.7	10.9	11.2	9.7	9.7	9.7
DAILY VALUE	12.2	----	12.2	10.2	10.7	11.2	10.2	10.8	11.2	9.2	9.6	9.7
0001 - 0600	12.2	12.2	12.2	10.7	10.7	10.7	10.7	10.7	10.7	9.7	9.7	9.7
0601 - 1200	12.2	12.4	12.7	11.2	12.0	12.7	10.2	10.5	10.7	9.2	9.5	9.7
1201 - 1800	12.2	12.5	12.7	12.2	12.5	12.7	10.7	11.0	11.2	9.2	9.5	9.7
1801 - 2400	12.2	12.4	12.7	12.2	12.2	12.2	10.7	11.0	11.2	9.2	9.5	9.7
DAILY VALUE	12.2	12.4	12.7	10.7	11.9	12.7	10.2	10.8	11.2	9.2	9.6	9.7
0001 - 0600	12.2	12.2	12.2	12.2	12.2	12.2	10.7	10.7	10.7	9.2	9.2	9.2
0601 - 1200	11.7	12.0	12.2	12.2	12.2	12.2	10.2	10.5	10.7	9.2	9.2	9.2
1201 - 1800	12.7	12.7	12.7	12.2	12.2	12.2	10.2	10.2	10.2	9.2	9.2	9.2
1801 - 2400	12.2	12.4	12.7	12.2	12.2	12.2	10.7	10.7	10.7	9.2	9.2	9.2
DAILY VALUE	11.7	12.3	12.7	12.2	12.2	12.2	10.2	10.5	10.7	9.2	9.2	9.2
0001 - 0600	11.7	11.9	12.2	11.7	11.7	11.7	10.7	10.7	10.7	8.7	9.0	9.2
0601 - 1200	11.7	11.9	12.2	11.7	11.9	12.2	10.7	10.7	10.7	8.7	8.7	8.7
1201 - 1800	11.7	11.9	12.2	12.2	12.2	12.2	10.7	10.7	10.7	8.7	8.7	8.7
1801 - 2400	11.7	11.7	11.7	11.7	11.7	11.7	10.7	10.7	10.7	8.7	8.7	8.7
DAILY VALUE	11.7	11.8	12.2	11.7	11.9	12.2	10.7	10.7	10.7	8.7	8.8	9.2
0001 - 0600	11.2	11.4	11.7	11.2	11.2	11.2	10.7	10.7	10.7	MONTHLY VALUE		
0601 - 1200	11.2	11.5	11.7	11.2	11.5	11.7	10.7	10.7	10.7			
1201 - 1800	11.7	11.7	11.7	11.2	11.4	11.7	10.7	10.7	10.7			
1801 - 2400	11.2	11.4	11.7	10.7	10.9	11.2	10.2	10.5	10.7			
DAILY VALUE	11.2	11.5	11.7	10.7	11.2	11.7	10.2	10.7	10.7	8.7	10.8	12.7

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.2	8.5	8.7	7.9	7.9	7.9	---	---	---	---	---	---
0601 - 1200	8.2	8.2	8.2	7.9	7.9	7.9	---	---	---	---	---	---
1201 - 1800	8.4	8.4	8.4	7.9	7.9	7.9	---	---	---	---	---	---
1801 - 2400	8.4	8.7	8.9	7.9	7.9	7.9	---	---	---	---	---	---
DAILY VALUE	8.2	8.5	8.9	7.9	7.9	7.9	---	---	---	---	---	---
0001 - 0600	8.4	8.6	8.9	7.4	7.7	7.9	---	---	---	---	---	---
0601 - 1200	7.9	8.2	8.4	7.4	7.4	7.4	---	---	---	---	---	---
1201 - 1800	8.4	8.4	8.4	7.9	7.9	7.9	---	---	---	---	---	---
1801 - 2400	8.4	8.4	8.4	7.4	7.4	7.4	---	---	---	---	---	---
DAILY VALUE	7.9	8.4	8.9	7.4	7.6	7.9	---	---	---	---	---	---
0001 - 0600	8.4	8.4	8.4	6.9	6.9	6.9	---	---	---	---	---	---
0601 - 1200	8.4	8.4	8.4	6.9	6.9	6.9	---	---	---	---	---	---
1201 - 1800	8.4	8.4	8.4	6.9	6.9	6.9	---	---	---	---	---	---
1801 - 2400	8.4	8.4	8.4	6.4	6.4	6.4	---	---	---	---	---	---
DAILY VALUE	8.4	8.4	8.4	6.4	6.8	6.9	---	---	---	---	---	---
0001 - 0600	7.9	8.1	8.4	5.9	6.2	6.4	---	---	---	---	---	---
0601 - 1200	7.9	7.9	7.9	5.9	6.2	6.4	---	---	---	---	---	---
1201 - 1800	7.9	8.2	8.4	6.4	6.4	6.4	---	---	---	---	---	---
1801 - 2400	7.9	8.1	8.4	6.4	6.4	6.4	---	---	---	---	---	---
DAILY VALUE	7.9	8.1	8.4	5.9	6.3	6.4	---	---	---	---	---	---
0001 - 0600	7.9	7.9	7.9	6.4	6.4	6.4	---	---	---	---	---	---
0601 - 1200	7.9	7.9	7.9	6.4	6.4	6.4	---	---	---	---	---	---
1201 - 1800	7.9	7.9	7.9	6.4	6.4	6.4	---	---	---	---	---	---
1801 - 2400	7.9	7.9	7.9	6.4	6.4	6.4	---	---	---	---	---	---
DAILY VALUE	7.9	7.9	7.9	6.4	6.4	6.4	---	---	---	---	---	---
0001 - 0600	7.9	7.9	7.9	6.9	6.9	6.9	---	---	---	---	---	---
0601 - 1200	7.9	7.9	7.9	6.9	6.9	6.9	---	---	---	---	---	---
1201 - 1800	7.9	8.2	8.4	---	---	---	---	---	---	---	---	---
1801 - 2400	8.4	8.4	8.4	---	---	---	---	---	---	---	---	---
DAILY VALUE	7.9	8.1	8.4	6.9	---	6.9	---	---	---	---	---	---
0001 - 0600	8.4	8.4	8.4	---	---	---	---	---	---	---	---	---
0601 - 1200	8.4	8.6	8.9	---	---	---	---	---	---	---	---	---
1201 - 1800	8.9	8.9	8.9	---	---	---	---	---	---	---	---	---
1801 - 2400	8.9	8.9	8.9	---	---	---	---	---	---	---	---	---
DAILY VALUE	8.4	8.7	8.9	---	---	---	---	---	---	---	---	---
0001 - 0600	8.4	8.7	8.9	---	---	---	---	---	---	MONTHLY VALUE		
0601 - 1200	8.4	8.4	8.4	---	---	---	---	---	---			
1201 - 1800	8.4	8.4	8.4	---	---	---	---	---	---			
1801 - 2400	7.9	8.1	8.4	---	---	---	---	---	---			
DAILY VALUE	7.9	8.4	8.9	---	---	---	---	---	---	5.9	---	8.9

Thermograph data summary, summer surface water temperature (C),
Slough 21-Area of R&M Stage Recorder, RM 142.0, Geocode
S32N02W36CCC.

- JULY 1982 -

[illegible]

4-6-60

Appendix Table 4-C-19 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	7.5	8.0	8.5	4.5	4.5	4.5	5.0	5.3	5.5	5.0	5.3	5.5
0601 - 1200	7.0	7.5	8.0	4.5	4.5	4.5	5.0	5.3	5.5	5.0	5.5	6.0
1201 - 1800	7.5	8.3	9.0	4.5	4.5	4.5	6.0	6.2	6.5	6.5	7.2	8.0
1801 - 2400	5.0	5.5	6.0	4.5	4.5	4.5	4.5	5.0	5.5	5.5	6.2	7.0
DAILY VALUE	5.0	7.3	9.0	4.5	4.5	4.5	4.5	5.5	6.5	5.0	6.0	8.0
0001 - 0600	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.2	5.5
0601 - 1200	4.5	5.7	7.0	4.5	4.5	4.5	5.0	5.7	6.0	5.0	5.3	6.0
1201 - 1800	7.0	7.5	8.0	4.5	4.5	4.5	6.0	6.2	6.5	6.5	7.3	8.0
1801 - 2400	4.5	5.0	5.5	4.5	4.5	4.5	4.5	5.0	5.5	5.0	5.7	6.5
DAILY VALUE	4.5	5.7	8.0	4.5	4.5	4.5	4.5	5.3	6.5	5.0	5.9	8.0
0001 - 0600	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.7	5.0
0601 - 1200	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.5	6.5	4.0	4.2	4.5
1201 - 1800	4.5	4.5	4.5	4.5	4.5	4.5	6.5	7.0	7.5	5.5	7.0	8.0
1801 - 2400	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.2	5.5	5.0	5.5	6.0
DAILY VALUE	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.5	7.5	4.0	5.3	8.0
0001 - 0600	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.8	5.0	4.5	4.5	4.5
0601 - 1200	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.5	6.5	4.5	4.8	5.0
1201 - 1800	4.5	4.5	4.5	4.5	4.5	4.5	7.0	7.8	8.5	5.5	6.2	6.5
1801 - 2400	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.3	5.5	5.0	5.5	6.0
DAILY VALUE	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.9	8.5	4.5	5.2	6.5
0001 - 0600	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.8	5.0	5.0	5.0	5.0
0601 - 1200	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.3	6.5	5.0	5.0	5.0
1201 - 1800	4.5	4.5	4.5	4.5	4.8	5.0	7.0	7.8	8.5	6.0	6.0	6.0
1801 - 2400	4.5	4.5	4.5	4.5	4.8	5.0	5.0	5.2	5.5	5.0	5.2	5.5
DAILY VALUE	4.5	4.5	4.5	4.5	4.7	5.0	4.5	5.8	8.5	5.0	5.3	6.0
0001 - 0600	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.0	5.0
0601 - 1200	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.2	6.5	5.0	5.0	5.0
1201 - 1800	4.5	4.5	4.5	4.5	4.5	4.5	8.0	8.0	8.0	5.0	5.2	5.5
1801 - 2400	4.5	4.5	4.5	4.5	4.5	4.5	5.5	6.2	7.0	5.0	5.2	5.5
DAILY VALUE	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.8	8.0	5.0	5.1	5.5
0001 - 0600	4.5	4.5	4.5	4.5	4.5	4.5	5.5	5.5	5.5	5.0	5.0	5.0
0601 - 1200	4.5	4.5	4.5	4.5	4.7	5.0	5.0	5.2	5.5	5.0	5.0	5.0
1201 - 1800	4.5	4.5	4.5	5.0	5.3	5.5	6.0	6.5	7.0	5.5	5.8	6.0
1801 - 2400	4.5	4.5	4.5	4.5	4.8	5.0	5.0	5.7	6.5	5.0	5.3	6.0
DAILY VALUE	4.5	4.5	4.5	4.5	4.8	5.5	5.0	5.7	7.0	5.0	5.3	6.0
0001 - 0600	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.0	5.0	MONTHLY VALUE		
0601 - 1200	4.5	4.5	4.5	4.5	5.3	6.5	5.0	5.2	5.5			
1201 - 1800	4.5	4.5	4.5	6.5	7.2	7.5	6.5	7.0	7.5			
1801 - 2400	4.5	4.5	4.5	5.5	5.5	5.5	5.5	6.2	7.0			
DAILY VALUE	4.5	4.5	4.5	4.5	5.6	7.5	5.0	5.8	7.5			

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Appendix Table 4-C-8 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	5.0	5.0	5.0	5.0	5.0	5.0	7.5	7.5	7.5	4.0	4.0	4.0
0601 - 1200	5.0	5.2	5.5	5.0	5.0	5.0	7.0	7.2	7.5	3.5	3.8	4.0
1201 - 1800	6.0	6.3	6.5	5.5	5.8	6.0	7.0	7.0	7.0	4.5	4.8	5.0
1801 - 2400	5.0	5.3	6.0	5.0	5.2	5.5	6.5	6.8	7.0	4.5	4.5	4.5
DAILY VALUE	5.0	5.5	6.5	5.0	5.2	6.0	6.5	7.1	7.5	3.5	4.3	5.0
0001 - 0600	4.5	4.5	4.5	4.5	4.8	5.0	6.0	6.3	6.5	4.0	4.0	4.0
0601 - 1200	4.5	5.0	5.5	4.5	4.8	5.0	5.5	5.7	6.0	4.0	4.2	4.5
1201 - 1800	6.0	6.3	6.5	5.5	5.8	6.0	5.5	5.8	6.0	4.5	4.5	4.5
1801 - 2400	5.0	5.5	6.0	4.5	4.8	5.0	5.0	5.2	5.5	4.5	4.5	4.5
DAILY VALUE	4.5	5.3	6.5	4.5	5.1	6.0	5.0	5.7	6.5	4.0	4.3	4.5
0001 - 0600	5.0	5.0	5.0	4.5	4.5	4.5	5.0	5.0	5.0	4.5	4.5	4.5
0601 - 1200	5.0	5.0	5.0	4.5	4.7	5.0	5.0	5.0	5.0	4.5	4.5	4.5
1201 - 1800	5.0	5.7	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
1801 - 2400	5.0	5.2	5.5	4.5	4.8	5.0	5.0	5.0	5.0	4.0	4.2	4.5
DAILY VALUE	5.0	5.2	6.0	4.5	4.7	5.0	5.0	5.0	5.0	4.0	4.5	5.0
0001 - 0600	4.5	4.7	5.0	4.5	4.5	4.5	4.5	4.5	4.5	3.5	3.8	4.0
0601 - 1200	4.5	4.8	5.0	4.0	4.0	4.0	4.5	4.7	5.0	3.5	3.7	4.0
1201 - 1800	5.5	6.0	6.5	4.5	5.3	6.0	5.0	5.0	5.0	4.5	4.5	4.5
1801 - 2400	4.5	5.2	6.0	4.5	4.8	5.0	5.0	5.0	5.0	4.0	4.2	4.5
DAILY VALUE	4.5	5.2	6.5	4.0	4.7	6.0	4.5	4.8	5.0	3.5	4.0	4.5
0001 - 0600	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.7	5.0	4.0	4.0	4.0
0601 - 1200	4.5	4.7	5.0	4.5	4.5	4.5	4.5	4.7	5.0	4.0	4.0	4.0
1201 - 1800	5.5	5.8	6.0	5.0	5.2	5.5	5.0	5.0	5.0	4.5	4.8	5.0
1801 - 2400	5.0	5.3	5.5	5.0	5.0	5.0	4.5	4.8	5.0	4.5	4.5	4.5
DAILY VALUE	4.5	5.1	6.0	4.5	4.8	5.5	4.5	4.8	5.0	4.0	4.3	5.0
0001 - 0600	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.5	4.0	4.0	4.0
0601 - 1200	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.7	5.0	4.0	4.2	4.5
1201 - 1800	5.5	5.7	6.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.8	5.0
1801 - 2400	5.0	5.2	5.5	5.0	5.0	5.0	4.0	4.5	5.0	4.0	4.3	4.5
DAILY VALUE	5.0	5.2	6.0	5.0	5.0	5.0	4.0	4.7	5.0	4.0	4.3	5.0
0001 - 0600	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	-----	-----	-----
0601 - 1200	5.0	5.3	6.0	5.0	5.8	7.0	4.0	4.0	4.0	-----	-----	-----
1201 - 1800	6.0	6.5	7.0	7.0	7.3	7.5	4.0	4.7	5.0	-----	-----	-----
1801 - 2400	5.0	5.2	5.5	7.5	7.5	7.5	4.0	4.2	4.5	-----	-----	-----
DAILY VALUE	5.0	5.5	7.0	5.0	6.4	7.5	4.0	4.2	5.0	-----	-----	-----
0001 - 0600	5.0	5.0	5.0	7.5	7.7	8.0	3.5	3.5	3.5	MONTHLY VALUE		
0601 - 1200	5.0	5.0	5.0	8.0	8.0	8.0	3.5	3.7	4.0			
1201 - 1800	5.5	5.8	6.0	8.0	8.0	8.0	4.0	4.7	5.0			
1801 - 2400	5.0	5.2	5.5	7.5	7.7	8.0	4.0	4.3	4.5			
DAILY VALUE	5.0	5.2	6.0	7.5	7.8	8.0	3.5	4.0	5.0			

4-C-62

App. Table 4 C 18 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	4.0	4.0	4.0	3.0	3.2	3.5	3.0	3.3	3.5	2.0	2.0	2.0
0601 - 1200	4.0	4.0	4.0	3.5	3.7	4.0	3.5	3.7	4.0	2.0	2.3	2.5
1201 - 1800	4.5	4.5	4.5	4.0	4.3	4.5	3.5	3.8	4.0	2.5	2.5	2.5
1801 - 2400	4.0	4.2	4.5	3.5	3.8	4.0	3.0	3.0	3.0	2.0	2.0	2.0
DAILY VALUE	4.0	4.2	4.5	3.0	3.7	4.5	3.0	3.5	4.0	2.0	2.2	2.5
0001 - 0600	4.0	4.0	4.0	3.5	3.5	3.5	3.0	3.0	3.0	2.0	2.0	2.0
0601 - 1200	4.0	4.2	4.5	3.5	3.8	4.0	3.0	3.2	3.5	2.5	2.5	2.5
1201 - 1800	4.5	4.8	5.0	4.0	4.0	4.0	3.5	3.5	3.5	2.0	2.0	2.0
1801 - 2400	4.0	4.2	4.5	3.5	3.5	3.5	3.5	3.5	3.5	2.0	2.0	2.0
DAILY VALUE	4.0	4.3	5.0	3.5	3.7	4.0	3.0	3.3	3.5	2.0	2.1	2.5
0001 - 0600	4.0	4.0	4.0	3.5	3.5	3.5	3.0	3.3	3.5	1.5	1.5	1.5
0601 - 1200	4.0	4.0	4.0	3.5	3.5	3.5	3.0	3.0	3.0	1.5	1.5	1.5
1201 - 1800	---	---	---	3.0	3.7	4.0	3.5	3.7	4.0	1.5	---	1.5
1801 - 2400	4.0	4.0	4.0	3.5	3.5	3.5	3.0	3.3	3.5	---	---	---
DAILY VALUE	4.0	4.0	4.0	3.0	3.5	4.0	3.0	3.3	4.0	1.5	---	1.5
0001 - 0600	3.5	3.5	3.5	3.0	3.2	3.5	3.0	3.0	3.0	---	---	---
0601 - 1200	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.0	3.0	---	---	---
1201 - 1800	4.0	4.2	4.5	4.0	4.0	4.0	3.0	3.3	3.5	---	---	---
1801 - 2400	3.5	3.7	4.0	3.5	3.7	4.0	2.5	2.5	2.5	---	---	---
DAILY VALUE	3.5	3.7	4.5	3.0	3.6	4.0	2.5	3.0	3.5	---	---	---
0001 - 0600	3.5	3.5	3.5	3.5	3.5	3.5	2.5	2.5	2.5	---	---	---
0601 - 1200	3.5	3.5	3.5	3.5	3.5	3.5	2.5	2.5	2.5	---	---	---
1201 - 1800	3.5	3.8	4.0	3.5	3.5	3.5	2.0	2.3	2.5	---	---	---
1801 - 2400	3.5	3.5	3.5	3.5	3.5	3.5	2.0	2.2	2.5	---	---	---
DAILY VALUE	3.5	3.6	4.0	3.5	3.5	3.5	2.0	2.4	2.5	---	---	---
0001 - 0600	3.5	3.5	3.5	3.5	3.5	3.5	2.0	2.0	2.0	---	---	---
0601 - 1200	3.5	3.5	3.5	3.0	3.5	4.0	2.0	2.2	2.5	---	---	---
1201 - 1800	4.0	4.0	4.0	3.5	3.8	4.0	2.5	2.5	2.5	---	---	---
1801 - 2400	3.5	3.5	3.5	3.0	3.0	3.0	2.5	2.5	2.5	---	---	---
DAILY VALUE	3.5	3.6	4.0	3.0	3.5	4.0	2.0	2.3	2.5	---	---	---
0001 - 0600	3.5	3.5	3.5	2.5	2.7	3.0	2.5	2.5	2.5	---	---	---
0601 - 1200	3.5	3.5	3.5	2.5	2.5	2.5	2.0	2.3	2.5	---	---	---
1201 - 1800	3.5	3.8	4.0	3.0	3.0	3.0	2.5	2.5	2.5	---	---	---
1801 - 2400	3.5	3.7	4.0	2.5	2.7	3.0	2.0	2.0	2.0	---	---	---
DAILY VALUE	3.5	3.6	4.0	2.5	2.7	3.0	2.0	2.3	2.5	---	---	---
0001 - 0600	3.5	3.5	3.5	3.0	3.0	3.0	2.0	2.0	2.0	MONTHLY VALUE		
0601 - 1200	3.5	3.7	4.0	3.0	3.0	3.0	2.5	2.5	2.5			
1201 - 1800	4.0	4.3	4.5	3.0	3.2	3.5	2.5	2.5	2.5			
1801 - 2400	3.0	3.5	4.0	3.0	3.3	3.5	2.0	2.2	2.5			
DAILY VALUE	3.0	3.7	4.5	3.0	3.1	3.5	2.0	2.3	2.5			

4-C-63

Appendix Table 4-C-19

Thermograph data summary, summer surface water temperature (C),
Portage Creek, RM 148.8, TRM .1, Geocode
S32N01W25CAB.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	2.2	2.4	2.7	----	----	----	4.0	4.2	4.5
0601 - 1200	----	----	----	2.2	2.4	2.7	----	----	----	4.0	5.3	7.0
1201 - 1800	----	----	----	3.2	3.7	4.2	----	----	----	7.5	7.5	7.5
1801 - 2400	----	----	----	3.2	3.7	4.2	----	----	----	5.0	6.0	7.0
DAILY VALUE	----	----	----	2.2	3.0	4.2	----	----	----	4.0	5.7	7.5
0001 - 0600	----	----	----	2.2	2.7	3.2	----	----	----	4.0	4.2	4.5
0601 - 1200	----	----	----	2.2	2.7	3.2	----	----	----	4.5	5.7	7.0
1201 - 1800	----	----	----	3.7	4.2	4.7	----	----	----	7.0	7.7	8.0
1801 - 2400	----	----	----	3.2	4.0	4.7	----	----	----	5.0	6.0	7.0
DAILY VALUE	----	----	----	2.2	3.4	4.7	----	----	----	4.0	5.9	8.0
0001 - 0600	----	----	----	2.2	2.4	2.7	----	----	----	4.0	4.2	4.5
0601 - 1200	----	----	----	2.2	2.7	3.2	----	----	----	4.5	5.5	6.5
1201 - 1800	----	----	----	3.2	3.7	4.2	----	----	----	7.5	7.5	7.5
1801 - 2400	----	----	----	3.7	4.0	4.2	----	----	----	5.5	6.3	7.0
DAILY VALUE	----	----	----	2.2	3.2	4.2	----	----	----	4.0	5.9	7.5
0001 - 0600	----	----	----	2.7	2.9	3.2	----	----	----	5.0	5.0	5.0
0601 - 1200	----	----	----	2.7	2.9	3.2	----	----	----	5.5	6.2	7.0
1201 - 1800	----	----	----	4.2	4.4	4.7	----	----	----	7.5	7.5	7.5
1801 - 2400	----	----	----	2.7	3.2	3.7	----	----	----	5.5	6.0	6.5
DAILY VALUE	----	----	----	2.7	3.3	4.7	----	----	----	5.0	6.2	7.5
0001 - 0600	----	----	----	1.7	2.0	2.2	----	----	----	4.5	4.8	5.0
0601 - 1200	----	----	----	2.2	2.9	3.7	----	----	----	4.5	5.0	5.5
1201 - 1800	----	----	----	4.2	4.5	4.7	----	----	----	6.5	6.8	7.0
1801 - 2400	----	----	----	4.2	4.5	4.7	----	----	----	5.5	6.3	7.0
DAILY VALUE	----	----	----	1.7	3.5	4.7	----	----	----	4.5	5.7	7.0
0001 - 0600	----	----	----	----	----	----	----	----	----	5.0	5.2	5.5
0601 - 1200	----	----	----	----	----	----	----	----	----	5.0	5.5	6.0
1201 - 1800	----	----	----	----	----	----	----	----	----	6.5	6.5	6.5
1801 - 2400	----	----	----	----	----	----	----	----	----	5.5	6.0	6.5
DAILY VALUE	----	----	----	----	----	----	----	----	----	5.0	5.8	6.5
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	4.0	4.2	4.5	MONTHLY VALUE		
0601 - 1200	3.2	----	3.2	----	----	----	4.5	5.7	7.0			
1201 - 1800	4.2	4.5	4.7	----	----	----	8.0	8.3	8.5			
1801 - 2400	3.2	4.0	4.7	----	----	----	5.0	6.2	7.5			
DAILY VALUE	3.2	----	4.7	----	----	----	4.0	6.1	8.5			

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App. Table 4-c 19 Cont.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	4.5	4.8	5.0	6.5	7.0	7.5	6.5	7.0	7.5	6.0	6.2	6.5
0601 - 1200	4.5	5.0	5.5	6.5	7.0	7.5	6.5	7.0	7.5	6.0	6.0	6.0
1201 - 1800	6.0	6.3	6.5	8.0	8.3	8.5	8.5	9.0	9.5	6.5	6.5	6.5
1801 - 2400	5.5	6.0	6.5	8.0	8.3	8.5	8.5	9.0	9.5	6.0	6.2	6.5
DAILY VALUE	4.5	5.5	6.5	6.5	7.7	8.5	6.5	8.0	9.5	6.0	6.2	6.5
0001 - 0600	4.5	4.8	5.0	6.5	7.0	7.5	7.0	7.5	8.0	6.0	6.0	6.0
0601 - 1200	-----	-----	-----	6.5	6.7	7.0	7.0	7.0	7.0	6.0	6.0	6.0
1201 - 1800	-----	-----	-----	7.5	7.5	7.5	7.0	7.5	8.0	6.0	6.3	6.5
1801 - 2400	-----	-----	-----	7.5	7.5	7.5	7.5	7.8	8.0	6.5	6.5	6.5
DAILY VALUE	4.5	-----	5.0	6.5	7.2	7.5	7.0	7.5	8.0	6.0	6.2	6.5
0001 - 0600	-----	-----	-----	6.5	6.8	7.0	6.0	6.5	7.0	6.0	6.3	6.5
0601 - 1200	-----	-----	-----	6.5	6.7	7.0	6.0	7.0	8.5	6.0	6.2	6.5
1201 - 1800	-----	-----	-----	8.0	8.2	8.5	9.5	10.3	11.0	7.0	7.5	8.0
1801 - 2400	-----	-----	-----	7.5	8.0	8.5	9.5	10.3	11.0	7.5	7.7	8.0
DAILY VALUE	-----	-----	-----	6.5	7.4	8.5	6.0	8.5	11.0	6.0	6.9	8.0
0001 - 0600	-----	-----	-----	7.0	7.0	7.0	7.0	7.7	8.5	7.0	7.0	7.0
0601 - 1200	-----	-----	-----	6.5	6.7	7.0	7.0	7.8	9.0	7.5	-----	7.5
1201 - 1800	-----	-----	-----	7.0	7.2	7.5	10.5	11.2	11.5	8.5	9.0	9.5
1801 - 2400	-----	-----	-----	7.0	7.2	7.5	10.5	11.2	11.5	8.5	8.8	9.0
DAILY VALUE	-----	-----	-----	6.5	7.0	7.5	7.0	9.5	11.5	7.0	8.2	9.5
0001 - 0600	-----	-----	-----	6.5	6.5	6.5	8.0	8.7	9.5	7.5	7.7	8.0
0601 - 1200	-----	-----	-----	6.5	6.7	7.0	8.0	8.0	8.0	7.5	7.5	7.5
1201 - 1800	-----	-----	-----	8.0	8.7	9.5	8.0	8.3	8.5	7.5	7.8	8.0
1801 - 2400	-----	-----	-----	8.0	8.5	9.0	8.0	8.3	8.5	7.5	7.5	7.5
DAILY VALUE	-----	-----	-----	6.5	7.6	9.5	8.0	8.3	9.5	7.5	7.6	8.0
0001 - 0600	-----	-----	-----	6.5	7.0	7.5	7.5	7.7	8.0	7.0	7.0	7.0
0601 - 1200	-----	-----	-----	6.5	7.2	8.0	7.0	7.3	7.5	7.0	7.0	7.0
1201 - 1800	-----	-----	-----	8.5	9.0	9.5	7.5	7.5	7.5	7.0	7.3	7.5
1801 - 2400	-----	-----	-----	8.0	8.5	9.0	7.0	7.3	7.5	7.5	7.5	7.5
DAILY VALUE	-----	-----	-----	6.5	7.9	9.5	7.0	7.5	8.0	7.0	7.2	7.5
0001 - 0600	-----	-----	-----	7.0	7.2	7.5	7.0	7.0	7.0	7.5	7.5	7.5
0601 - 1200	-----	-----	-----	7.0	7.2	7.5	6.5	6.5	6.5	-----	-----	-----
1201 - 1800	-----	-----	-----	8.5	8.8	9.0	7.0	7.0	7.0	-----	-----	-----
1801 - 2400	-----	-----	-----	8.0	8.3	8.5	6.5	6.7	7.0	-----	-----	-----
DAILY VALUE	-----	-----	-----	7.0	7.9	9.0	6.5	6.8	7.0	7.5	-----	7.5
0001 - 0600	-----	-----	-----	7.0	7.2	7.5	6.5	6.5	6.5	MONTHLY VALUE		
0601 - 1200	-----	-----	-----	6.5	6.8	7.0	6.5	6.5	6.5			
1201 - 1800	9.5	-----	9.5	7.5	8.0	8.5	6.5	6.5	6.5			
1801 - 2400	8.0	8.5	9.0	7.5	8.0	8.5	6.5	6.5	6.5			
DAILY VALUE	8.0	-----	9.5	6.5	7.5	8.5	6.5	6.5	6.5	4.5	7.4	11.5

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Appendix Table 4-C-19 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	7.5	7.8	8.0	8.0	8.5	9.0	8.5	8.8	9.0
0601 - 1200	----	----	----	7.5	7.5	7.5	7.5	7.7	8.0	8.0	8.2	8.5
1201 - 1800	----	----	----	7.5	7.5	7.5	8.0	8.2	8.5	9.0	9.5	10.0
1801 - 2400	----	----	----	7.5	7.5	7.5	7.5	8.0	8.5	9.0	9.5	10.0
DAILY VALUE	----	----	----	7.5	7.6	8.0	7.5	8.1	9.0	8.0	9.0	10.0
0001 - 0600	----	----	----	7.0	7.2	7.5	6.5	6.8	7.0	8.5	8.7	9.0
0601 - 1200	----	----	----	7.0	7.0	7.0	7.0	7.2	7.5	8.0	8.0	8.0
1201 - 1800	----	----	----	7.5	7.7	8.0	8.0	8.3	8.5	9.0	9.5	10.0
1801 - 2400	----	----	----	7.5	7.7	8.0	8.0	8.3	8.5	9.0	9.5	10.0
DAILY VALUE	----	----	----	7.0	7.4	8.0	6.5	7.7	8.5	8.0	8.9	10.0
0001 - 0600	----	----	----	7.0	7.2	7.5	6.5	7.0	7.5	6.5	7.3	8.0
0601 - 1200	----	----	----	7.0	7.2	7.5	6.5	6.7	7.0	6.0	6.2	6.5
1201 - 1800	----	----	----	8.5	9.0	9.5	8.0	8.8	9.5	8.0	8.7	9.0
1801 - 2400	----	----	----	8.0	8.8	9.5	9.0	9.5	10.0	8.5	8.8	9.0
DAILY VALUE	----	----	----	7.0	8.0	9.5	6.5	8.0	10.0	6.0	7.7	9.0
0001 - 0600	----	----	----	6.0	6.7	7.5	7.5	7.8	8.5	6.5	7.0	7.5
0601 - 1200	8.5	----	8.5	5.5	6.2	7.0	7.0	7.3	8.0	6.5	6.5	6.5
1201 - 1800	9.0	9.8	10.5	8.5	9.0	9.5	9.0	10.0	10.5	7.0	7.5	8.0
1801 - 2400	9.0	9.8	10.5	9.0	9.3	9.5	9.5	9.8	10.0	8.0	8.0	8.0
DAILY VALUE	8.5	----	10.5	5.5	7.8	9.5	7.0	8.7	10.5	6.5	7.2	8.0
0001 - 0600	7.0	7.7	8.5	7.0	7.5	8.0	7.5	8.0	8.5	7.5	7.5	7.5
0601 - 1200	7.0	7.3	8.0	6.5	7.0	8.0	6.5	7.0	7.5	7.0	7.2	7.5
1201 - 1800	9.0	9.3	9.5	9.5	10.0	10.5	9.0	9.5	10.0	7.5	7.8	8.0
1801 - 2400	9.0	9.2	9.5	10.0	10.3	10.5	9.5	9.8	10.0	7.5	7.8	8.0
DAILY VALUE	7.0	8.4	9.5	6.5	8.7	10.5	6.5	8.6	10.0	7.0	7.6	8.0
0001 - 0600	7.0	7.5	8.0	8.5	9.0	9.5	7.0	7.8	8.5	7.0	7.3	7.5
0601 - 1200	7.0	7.3	8.0	8.5	8.5	8.5	6.5	6.8	7.5	7.0	7.0	7.0
1201 - 1800	9.0	9.8	10.5	8.5	8.5	8.5	9.0	9.5	10.0	7.0	7.0	7.0
1801 - 2400	9.0	9.5	10.0	8.5	8.8	9.0	10.0	10.0	10.0	7.0	7.0	7.0
DAILY VALUE	7.0	8.5	10.5	8.5	8.7	9.5	6.5	8.5	10.0	7.0	7.1	7.5
0001 - 0600	7.0	7.5	8.0	8.0	8.2	8.5	9.0	9.2	9.5	6.0	6.3	6.5
0601 - 1200	7.0	7.3	8.0	8.0	8.2	8.5	8.5	8.5	8.5	6.0	6.0	6.0
1201 - 1800	8.5	8.8	9.0	9.0	9.3	9.5	9.0	9.0	9.0	----	----	----
1801 - 2400	8.5	8.7	9.0	8.5	9.0	9.5	9.0	9.3	9.5	----	----	----
DAILY VALUE	7.0	8.1	9.0	8.0	8.7	9.5	8.5	9.0	9.5	6.0	----	6.5
0001 - 0600	7.0	7.5	8.0	7.5	8.0	8.5	8.0	8.3	8.5	-----	-----	-----
0601 - 1200	6.5	7.2	8.0	7.5	7.8	8.5	8.0	8.2	8.5	MONTHLY VALUE		
1201 - 1800	8.5	9.0	9.5	9.5	9.8	10.0	9.0	9.7	10.0	-----	-----	-----
1801 - 2400	8.5	9.0	9.5	9.5	9.7	10.0	9.5	9.8	10.0	5.5	8.2	10.5
DAILY VALUE	6.5	8.2	9.5	7.5	8.8	10.0	8.0	9.0	10.0	-----	-----	-----

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App Table 4-C-20 Thermograph data summary, summer surface water temperature (C),
Tsusena Creek, RM 181.3, Geocode S32N04E36ADB.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	----	----	----	4.0	4.5	5.0
0601 - 1200	----	----	----	----	----	----	----	----	----	4.0	5.3	7.0
1201 - 1800	----	----	----	----	----	----	----	----	----	8.0	8.5	9.0
1801 - 2400	----	----	----	----	----	----	----	----	----	6.5	7.7	8.5
DAILY VALUE	----	----	----	----	----	----	----	----	----	4.0	6.5	9.0
0001 - 0600	----	----	----	----	----	----	----	----	----	4.5	4.8	5.5
0601 - 1200	----	----	----	----	----	----	----	----	----	4.5	5.3	6.5
1201 - 1800	----	----	----	----	----	----	----	----	----	8.0	8.5	9.0
1801 - 2400	----	----	----	----	----	----	----	----	----	6.5	7.8	9.0
DAILY VALUE	----	----	----	----	----	----	----	----	----	4.5	6.6	9.0
0001 - 0600	----	----	----	----	----	----	----	----	----	4.5	4.8	5.5
0601 - 1200	----	----	----	----	----	----	----	----	----	4.5	5.3	6.5
1201 - 1800	----	----	----	----	----	----	7.0	7.7	8.0	8.0	8.8	9.5
1801 - 2400	----	----	----	----	----	----	6.5	7.3	8.0	7.0	8.3	9.5
DAILY VALUE	----	----	----	----	----	----	6.5	----	8.0	4.5	6.8	9.5
0001 - 0600	----	----	----	----	----	----	4.5	5.2	6.0	5.5	6.0	6.5
0601 - 1200	----	----	----	----	----	----	4.0	4.0	4.0	5.5	6.2	7.0
1201 - 1800	----	----	----	----	----	----	4.0	4.2	4.5	8.0	8.3	8.5
1801 - 2400	----	----	----	----	----	----	4.5	4.5	4.5	6.5	7.3	8.0
DAILY VALUE	----	----	----	----	----	----	4.0	4.5	6.0	5.5	7.0	8.5
0001 - 0600	----	----	----	----	----	----	4.0	4.0	4.0	5.0	5.2	5.5
0601 - 1200	----	----	----	----	----	----	4.0	4.2	4.5	5.0	5.5	6.0
1201 - 1800	----	----	----	----	----	----	5.5	6.5	7.5	6.5	7.3	8.0
1801 - 2400	----	----	----	----	----	----	6.5	7.5	8.0	7.5	7.8	8.0
DAILY VALUE	----	----	----	----	----	----	4.0	5.5	8.0	5.0	6.5	8.0
0001 - 0600	----	----	----	----	----	----	4.5	5.2	6.0	5.5	6.0	6.5
0601 - 1200	----	----	----	----	----	----	4.5	5.2	6.0	5.5	5.7	6.0
1201 - 1800	----	----	----	----	----	----	7.0	7.5	8.0	7.0	7.3	7.5
1801 - 2400	----	----	----	----	----	----	7.0	7.5	8.0	6.5	7.0	7.5
DAILY VALUE	----	----	----	----	----	----	4.5	6.3	8.0	5.5	6.5	7.5
0001 - 0600	----	----	----	----	----	----	4.5	5.2	6.0	----	----	----
0601 - 1200	----	----	----	----	----	----	4.5	5.5	7.0	----	----	----
1201 - 1800	----	----	----	----	----	----	8.5	9.5	10.0	----	----	----
1801 - 2400	----	----	----	----	----	----	6.5	8.2	9.5	----	----	----
DAILY VALUE	----	----	----	----	----	----	4.5	7.1	10.0	----	----	----
0001 - 0600	----	----	----	----	----	----	4.0	4.7	5.5	MONTHLY VALUE		
0601 - 1200	----	----	----	----	----	----	4.0	5.2	6.5			
1201 - 1800	----	----	----	----	----	----	8.5	9.7	10.5	4.0 ---- 10.5		
1801 - 2400	----	----	----	----	----	----	6.5	8.0	9.5			
DAILY VALUE	----	----	----	----	----	----	4.0	6.9	10.5			

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Appendix Table 4-C-20 Cont.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	---	---	---	---	---	---	---	---	---	6.5	6.8	7.0
0601 - 1200	---	---	---	---	---	---	---	---	---	6.5	6.7	7.0
1201 - 1800	---	---	---	---	---	---	---	---	---	7.0	7.2	7.5
1801 - 2400	---	---	---	---	---	---	---	---	---	7.0	7.2	7.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	6.5	7.0	7.5
0001 - 0600	---	---	---	---	---	---	---	---	---	6.5	6.5	6.5
0601 - 1200	---	---	---	---	---	---	---	---	---	6.5	6.8	7.5
1201 - 1800	---	---	---	---	---	---	---	---	---	8.5	8.7	9.0
1801 - 2400	---	---	---	---	---	---	---	---	---	8.5	8.8	9.0
DAILY VALUE	---	---	---	---	---	---	---	---	---	6.5	7.7	9.0
0001 - 0600	---	---	---	---	---	---	---	---	---	7.5	7.7	8.0
0601 - 1200	---	---	---	---	---	---	---	---	---	7.0	7.3	7.5
1201 - 1800	---	---	---	---	---	---	---	---	---	8.0	8.8	9.5
1801 - 2400	---	---	---	---	---	---	---	---	---	9.5	9.7	10.0
DAILY VALUE	---	---	---	---	---	---	---	---	---	7.0	8.4	10.0
0001 - 0600	---	---	---	---	---	---	---	---	---	7.5	8.0	8.5
0601 - 1200	---	---	---	---	---	---	---	---	---	7.5	7.7	8.0
1201 - 1800	---	---	---	---	---	---	---	---	---	9.5	10.2	11.0
1801 - 2400	---	---	---	---	---	---	---	---	---	10.5	10.8	11.0
DAILY VALUE	---	---	---	---	---	---	---	---	---	7.5	9.1	11.0
0001 - 0600	---	---	---	---	---	---	---	---	---	8.0	8.7	9.5
0601 - 1200	---	---	---	---	---	---	---	---	---	7.5	7.7	8.0
1201 - 1800	---	---	---	---	---	---	---	---	---	8.0	8.2	8.5
1801 - 2400	---	---	---	---	---	---	---	---	---	8.0	8.3	8.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	7.5	8.2	9.5
0001 - 0600	---	---	---	---	---	---	---	---	---	7.0	7.3	7.5
0601 - 1200	---	---	---	---	---	---	---	---	---	7.0	7.0	7.0
1201 - 1800	---	---	---	---	---	---	---	---	---	7.5	7.5	7.5
1801 - 2400	---	---	---	---	---	---	---	---	---	7.5	7.5	7.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	7.0	7.3	7.5
0001 - 0600	---	---	---	---	---	---	---	---	---	6.5	6.7	7.0
0601 - 1200	---	---	---	---	---	---	---	---	---	6.5	6.7	7.0
1201 - 1800	---	---	---	---	---	---	---	---	---	8.0	8.5	9.0
1801 - 2400	---	---	---	---	---	---	---	---	---	8.0	8.7	9.0
DAILY VALUE	---	---	---	---	---	---	---	---	---	6.5	7.6	9.0
0001 - 0600	---	---	---	---	---	---	---	---	---	MONTHLY VALUE		
0601 - 1200	---	---	---	---	---	---	---	---	---			
1201 - 1800	---	---	---	---	---	---	---	---	---			
1801 - 2400	---	---	---	---	---	---	---	---	---			
DAILY VALUE	---	---	---	---	---	---	---	---	---	6.5	---	11.0

Appendix Table 4-C 20 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	6.0	6.7	7.5	7.0	7.5	8.0	8.0	8.3	9.0	8.5	8.8	9.0
0601 - 1200	6.0	6.3	7.0	7.0	7.2	7.5	7.5	7.5	7.5	8.5	8.5	8.5
1201 - 1800	8.5	9.3	10.0	8.0	8.3	8.5	8.0	8.2	8.5	9.0	9.8	10.5
1801 - 2400	8.5	9.3	10.0	8.0	8.5	9.0	8.0	8.5	9.0	9.5	10.2	10.5
DAILY VALUE	6.0	7.9	10.0	7.0	7.9	9.0	7.5	8.1	9.0	8.5	9.3	10.5
0001 - 0600	6.0	6.5	7.0	7.0	7.5	8.0	6.5	7.0	7.5	7.5	8.0	8.5
0601 - 1200	6.0	6.5	7.5	7.0	7.2	7.5	6.5	6.8	7.5	7.5	7.7	8.0
1201 - 1800	8.5	9.3	10.0	7.5	7.8	8.0	9.0	9.8	10.5	9.5	9.7	10.0
1801 - 2400	8.5	9.3	10.0	7.5	7.8	8.0	8.5	9.2	9.5	9.0	9.5	10.0
DAILY VALUE	6.0	7.9	10.0	7.0	7.6	8.0	6.5	8.2	10.5	7.5	8.7	10.0
0001 - 0600	6.0	6.7	7.5	7.0	7.2	7.5	6.0	7.0	8.0	6.5	7.2	8.0
0601 - 1200	6.0	6.7	7.5	6.5	6.7	7.0	6.0	6.3	7.0	6.0	6.2	6.5
1201 - 1800	9.0	9.8	10.5	8.0	8.7	9.0	9.0	9.7	10.0	8.0	9.0	9.5
1801 - 2400	9.0	9.7	10.0	8.0	8.7	9.0	9.5	9.8	10.0	9.0	9.5	10.0
DAILY VALUE	6.0	8.2	10.5	6.5	7.8	9.0	6.0	8.2	10.0	6.0	8.0	10.0
0001 - 0600	6.5	7.2	8.0	6.0	6.7	7.5	7.5	8.0	8.5	6.5	7.2	8.0
0601 - 1200	6.0	6.8	8.0	5.5	6.2	7.0	7.5	7.8	8.5	6.0	6.3	7.0
1201 - 1800	9.5	10.5	11.0	9.0	9.8	10.5	10.0	10.7	11.0	8.0	8.8	9.5
1801 - 2400	9.5	10.2	10.5	10.0	10.5	11.0	10.5	10.8	11.0	8.5	8.8	9.0
DAILY VALUE	6.0	8.7	11.0	5.5	8.3	11.0	7.5	9.3	11.0	6.0	7.8	9.5
0001 - 0600	7.0	7.8	8.5	7.0	7.8	8.5	8.0	8.7	9.5	7.0	7.5	8.0
0601 - 1200	7.0	7.3	8.0	7.0	7.3	8.0	7.5	7.7	8.0	7.0	7.0	7.0
1201 - 1800	9.5	10.3	11.0	10.0	11.0	12.0	9.0	9.8	10.5	7.5	7.8	8.0
1801 - 2400	9.5	10.0	10.5	11.0	11.5	12.0	9.5	10.0	10.5	8.0	8.0	8.0
DAILY VALUE	7.0	8.9	11.0	7.0	9.4	12.0	7.5	9.0	10.5	7.0	7.6	8.0
0001 - 0600	7.0	7.7	8.5	9.5	10.0	10.5	7.0	7.7	8.5	7.5	7.7	8.0
0601 - 1200	6.5	7.2	8.0	9.0	9.0	9.0	6.5	6.8	7.5	7.0	7.0	7.0
1201 - 1800	9.5	10.3	11.0	9.0	9.3	9.5	9.0	9.8	10.5	7.5	7.5	7.5
1801 - 2400	10.0	10.5	11.0	9.5	9.5	9.5	10.5	10.8	11.0	7.5	7.5	7.5
DAILY VALUE	6.5	8.9	11.0	9.0	9.5	10.5	6.5	8.8	11.0	7.0	7.4	8.0
0001 - 0600	7.0	7.8	8.5	8.0	8.5	9.0	9.5	9.7	10.0	6.5	6.7	7.0
0601 - 1200	7.0	7.2	7.5	7.5	8.0	8.5	9.0	9.0	9.0	6.0	6.3	6.5
1201 - 1800	9.0	9.3	9.5	9.0	9.2	9.5	9.5	9.5	9.5	7.0	7.3	7.5
1801 - 2400	8.5	9.0	9.5	8.5	9.0	9.5	9.5	9.7	10.0	7.5	7.5	7.5
DAILY VALUE	7.0	8.3	9.5	7.5	8.7	9.5	9.0	9.5	10.0	6.0	7.0	7.5
0001 - 0600	7.5	7.8	8.0	7.0	7.5	8.0	8.5	8.7	9.0	MONTHLY VALUE		
0601 - 1200	7.0	7.7	8.5	6.5	7.2	8.5	8.0	8.5	9.0			
1201 - 1800	9.0	9.5	10.0	9.0	9.8	10.5	9.5	9.7	10.0			
1801 - 2400	8.5	9.0	9.5	9.5	10.0	10.5	9.5	9.8	10.0			
DAILY VALUE	7.0	8.5	10.0	6.5	8.6	10.5	8.0	9.2	10.0	5.5	8.4	12.0

Appendix Table 4-C-20 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	6.5	6.7	7.0	6.0	6.2	6.5	4.5	4.7	5.0	3.5	3.7	4.0
0601 - 1200	6.5	6.5	6.5	6.0	6.0	6.0	4.5	4.5	4.5	3.0	3.3	3.5
1201 - 1800	7.5	8.0	8.5	6.5	6.8	7.0	5.0	5.3	5.5	4.5	5.0	5.5
1801 - 2400	7.0	7.8	8.5	6.5	6.8	7.0	5.0	5.3	5.5	5.0	5.3	5.5
DAILY VALUE	6.5	7.2	8.5	6.0	6.5	7.0	4.5	5.0	5.5	3.0	4.3	5.5
0001 - 0600	6.0	6.2	6.5	6.0	6.3	6.5	4.5	4.7	5.0	4.5	4.7	5.0
0601 - 1200	6.0	6.2	6.5	6.0	6.0	6.0	4.5	4.7	5.0	4.0	4.3	4.5
1201 - 1800	7.5	8.2	8.5	6.0	6.3	6.5	5.5	5.8	6.0	4.5	4.8	5.0
1801 - 2400	7.5	7.8	8.0	6.0	6.3	6.5	6.0	6.0	6.0	4.5	4.5	4.5
DAILY VALUE	6.0	7.1	8.5	6.0	6.2	6.5	4.5	5.3	6.0	4.0	4.6	5.0
0001 - 0600	6.5	6.7	7.0	5.5	5.7	6.0	5.5	5.5	5.5	4.0	4.3	4.5
0601 - 1200	6.5	6.5	6.5	5.0	5.2	5.5	5.5	5.5	5.5	4.0	4.3	4.5
1201 - 1800	6.5	6.7	7.0	5.5	5.5	5.5	5.5	5.7	6.0	5.0	5.2	5.5
1801 - 2400	6.5	6.7	7.0	5.5	5.5	5.5	5.5	5.8	6.0	4.0	4.7	5.5
DAILY VALUE	6.5	6.6	7.0	5.0	5.5	6.0	5.5	5.6	6.0	4.0	4.6	5.5
0001 - 0600	5.5	5.7	6.0	5.0	5.2	5.5	5.0	5.2	5.5	2.5	3.0	3.5
0601 - 1200	5.5	5.7	6.0	4.5	4.5	4.5	5.0	5.2	5.5	2.5	2.7	3.0
1201 - 1800	7.0	7.3	7.5	5.5	6.2	6.5	5.5	5.8	6.0	3.5	3.5	3.5
1801 - 2400	6.5	7.2	7.5	6.5	6.5	6.5	5.5	5.5	5.5	3.5	3.5	3.5
DAILY VALUE	5.5	6.5	7.5	4.5	5.6	6.5	5.0	5.4	6.0	2.5	3.2	3.5
0001 - 0600	5.5	5.8	6.0	5.0	5.5	6.0	5.0	5.2	5.5	3.5	3.5	3.5
0601 - 1200	5.5	5.7	6.0	4.5	4.8	5.0	5.0	5.0	5.0	3.5	3.5	3.5
1201 - 1800	6.5	6.5	6.5	5.5	5.8	6.0	5.5	5.5	5.5	4.0	4.2	4.5
1801 - 2400	6.5	6.7	7.0	6.0	6.0	6.0	5.5	5.5	5.5	4.5	4.5	4.5
DAILY VALUE	5.5	6.2	7.0	4.5	5.5	6.0	5.0	5.3	5.5	3.5	3.9	4.5
0001 - 0600	6.0	6.3	6.5	5.5	5.7	6.0	4.5	4.8	5.0	3.5	3.7	4.0
0601 - 1200	6.0	6.2	6.5	5.5	5.5	5.5	4.5	4.5	4.5	3.5	3.5	3.5
1201 - 1800	7.0	7.5	8.0	5.5	5.5	5.5	5.5	5.5	5.5	4.0	4.3	4.5
1801 - 2400	7.5	7.7	8.0	5.5	5.5	5.5	4.5	5.2	5.5	4.0	4.3	4.5
DAILY VALUE	6.0	6.9	8.0	5.5	5.5	6.0	4.5	5.0	5.5	3.5	4.0	4.5
0001 - 0600	6.5	6.8	7.0	5.5	5.5	5.5	3.0	3.5	4.0	----	----	----
0601 - 1200	6.5	6.5	6.5	5.5	5.7	6.0	2.5	2.8	3.5	----	----	----
1201 - 1800	7.0	7.5	8.0	7.0	7.3	7.5	4.0	4.5	5.0	----	----	----
1801 - 2400	7.0	7.5	8.0	6.5	7.2	7.5	3.5	4.2	4.5	----	----	----
DAILY VALUE	6.5	7.1	8.0	5.5	6.4	7.5	2.5	3.7	5.0	----	----	----
0001 - 0600	6.5	6.7	7.0	5.5	6.0	6.5	2.0	2.5	3.0	MONTHLY VALUE		
0601 - 1200	6.0	6.0	6.0	5.5	5.5	5.5	2.0	2.2	2.5			
1201 - 1800	6.5	6.5	6.5	5.5	5.7	6.0	3.5	4.2	4.5			
1801 - 2400	6.5	6.5	6.5	5.0	5.2	5.5	4.5	4.5	4.5	2.0	5.5	8.5
DAILY VALUE	6.0	6.4	7.0	5.0	5.6	6.5	2.0	3.3	4.5			

Table 4-c 20 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	3.0	3.3	3.5	.5	.7	1.0	---	---	---	---	---	---
0601 - 1200	3.5	3.5	3.5	.5	.7	1.0	---	---	---	---	---	---
1201 - 1800	3.5	3.8	4.0	1.0	1.0	1.0	---	---	---	---	---	---
1801 - 2400	3.5	3.7	4.0	1.5	1.5	1.5	---	---	---	---	---	---
DAILY VALUE	3.0	3.6	4.0	.5	1.0	1.5	---	---	---	---	---	---
0001 - 0600	3.0	3.0	3.0	1.0	1.0	1.0	---	---	---	---	---	---
0601 - 1200	3.0	3.0	3.0	1.0	1.0	1.0	---	---	---	---	---	---
1201 - 1800	3.0	3.3	3.5	1.0	1.0	1.0	---	---	---	---	---	---
1801 - 2400	3.0	3.3	3.5	.5	.8	1.0	---	---	---	---	---	---
DAILY VALUE	3.0	3.2	3.5	.5	1.0	1.0	---	---	---	---	---	---
0001 - 0600	2.5	2.8	3.0	0.0	.2	.5	---	---	---	---	---	---
0601 - 1200	2.0	2.2	2.5	0.0	0.0	0.0	---	---	---	---	---	---
1201 - 1800	2.5	2.8	3.0	0.0	.3	.5	---	---	---	---	---	---
1801 - 2400	3.0	3.0	3.0	.5	.5	.5	---	---	---	---	---	---
DAILY VALUE	2.0	2.7	3.0	0.0	.2	.5	---	---	---	---	---	---
0001 - 0600	2.0	2.2	2.5	.5	.5	.5	---	---	---	---	---	---
0601 - 1200	1.5	1.5	1.5	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	2.0	2.0	2.0	1.0	1.2	1.5	---	---	---	---	---	---
1801 - 2400	2.0	2.0	2.0	1.5	1.5	1.5	---	---	---	---	---	---
DAILY VALUE	1.5	1.9	2.5	.5	.9	1.5	---	---	---	---	---	---
0001 - 0600	1.5	1.8	2.0	1.0	1.2	1.5	---	---	---	---	---	---
0601 - 1200	1.5	1.5	1.5	0.0	.2	.5	---	---	---	---	---	---
1201 - 1800	1.5	1.8	2.0	.5	.5	.5	---	---	---	---	---	---
1801 - 2400	1.0	1.5	2.0	0.0	0.0	0.0	---	---	---	---	---	---
DAILY VALUE	1.0	1.7	2.0	0.0	.5	1.5	---	---	---	---	---	---
0001 - 0600	0.0	.3	.5	0.0	0.0	0.0	---	---	---	---	---	---
0601 - 1200	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---	---	---	---
1201 - 1800	.5	.7	1.0	0.0	0.0	0.0	---	---	---	---	---	---
1801 - 2400	.5	.5	.5	0.0	0.0	0.0	---	---	---	---	---	---
DAILY VALUE	0.0	.4	1.0	0.0	0.0	0.0	---	---	---	---	---	---
0001 - 0600	.5	.5	.5	0.0	0.0	0.0	---	---	---	---	---	---
0601 - 1200	.5	.5	.5	0.0	0.0	0.0	---	---	---	---	---	---
1201 - 1800	.5	.5	.5	0.0	0.0	0.0	---	---	---	---	---	---
1801 - 2400	.5	.5	.5	0.0	0.0	0.0	---	---	---	---	---	---
DAILY VALUE	.5	.5	.5	0.0	0.0	0.0	---	---	---	---	---	---
0001 - 0600	.5	.5	.5	0.0	0.0	0.0	---	---	---	MONTHLY VALUE		
0601 - 1200	.5	.7	1.0	0.0	0.0	0.0	---	---	---			
1201 - 1800	1.0	1.2	1.5	---	---	---	---	---	---			
1801 - 2400	1.0	1.0	1.0	---	---	---	---	---	---	0.0 --- 4.0		
DAILY VALUE	.5	.8	1.5	0.0	---	0.0	---	---	---			

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Appendix Table 4-c-21 Thermograph data summary, summer surface water temperature (C),
Watana Creek, RM 194.1, Geocode S32N06E25CCA.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	---	---	---	---	---	---	---	---	---	6.5	7.5	8.5
0601 - 1200	---	---	---	---	---	---	---	---	---	6.5	7.8	9.5
1201 - 1800	---	---	---	---	---	---	---	---	---	11.0	11.3	11.5
1801 - 2400	---	---	---	---	---	---	---	---	---	10.0	10.8	11.5
DAILY VALUE	---	---	---	---	---	---	---	---	---	6.5	9.4	11.5
0001 - 0600	---	---	---	---	---	---	---	---	---	7.0	7.7	8.5
0601 - 1200	---	---	---	---	---	---	---	---	---	7.0	8.0	9.0
1201 - 1800	---	---	---	---	---	---	---	---	---	11.0	11.7	12.0
1801 - 2400	---	---	---	---	---	---	---	---	---	10.5	11.3	12.0
DAILY VALUE	---	---	---	---	---	---	---	---	---	7.0	9.7	12.0
0001 - 0600	---	---	---	---	---	---	---	---	---	7.0	8.0	9.0
0601 - 1200	---	---	---	---	---	---	---	---	---	7.0	8.2	9.5
1201 - 1800	---	---	---	---	---	---	---	---	---	11.0	12.2	13.0
1801 - 2400	---	---	---	---	---	---	---	---	---	11.0	12.0	13.0
DAILY VALUE	---	---	---	---	---	---	---	---	---	7.0	10.1	13.0
0001 - 0600	---	---	---	---	---	---	---	---	---	8.5	9.2	10.0
0601 - 1200	---	---	---	---	---	---	---	---	---	8.5	9.2	10.0
1201 - 1800	---	---	---	---	---	---	---	---	---	11.0	11.0	11.0
1801 - 2400	---	---	---	---	---	---	6.0	6.5	7.0	9.0	9.7	10.5
DAILY VALUE	---	---	---	---	---	---	6.0	---	7.0	8.5	9.7	11.0
0001 - 0600	---	---	---	---	---	---	5.0	5.2	5.5	7.5	7.8	8.5
0601 - 1200	---	---	---	---	---	---	5.0	5.3	6.0	7.5	7.7	8.0
1201 - 1800	---	---	---	---	---	---	6.5	7.0	7.5	8.5	9.3	10.5
1801 - 2400	---	---	---	---	---	---	7.0	7.3	7.5	9.5	10.0	10.5
DAILY VALUE	---	---	---	---	---	---	5.0	6.2	7.5	7.5	8.7	10.5
0001 - 0600	---	---	---	---	---	---	5.5	5.7	6.0	7.5	8.3	9.0
0601 - 1200	---	---	---	---	---	---	5.5	6.0	6.5	7.5	7.8	8.0
1201 - 1800	---	---	---	---	---	---	8.0	8.5	9.0	9.0	9.3	9.5
1801 - 2400	---	---	---	---	---	---	8.0	8.3	8.5	9.0	9.2	9.5
DAILY VALUE	---	---	---	---	---	---	5.5	7.1	9.0	7.5	8.7	9.5
0001 - 0600	---	---	---	---	---	---	5.5	6.3	7.0	---	---	---
0601 - 1200	---	---	---	---	---	---	6.0	6.8	8.0	---	---	---
1201 - 1800	---	---	---	---	---	---	10.0	11.2	12.0	---	---	---
1801 - 2400	---	---	---	---	---	---	9.5	10.8	12.0	---	---	---
DAILY VALUE	---	---	---	---	---	---	5.5	8.8	12.0	---	---	---
0001 - 0600	---	---	---	---	---	---	6.0	7.0	8.0	MONTHLY VALUE		
0601 - 1200	---	---	---	---	---	---	6.0	7.2	8.5			
1201 - 1800	---	---	---	---	---	---	11.0	12.2	13.0			
1801 - 2400	---	---	---	---	---	---	10.0	11.3	12.5	5.0 --- 13.0		
DAILY VALUE	---	---	---	---	---	---	6.0	9.4	13.0			

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Table 4-C-23 Cont.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	7.5	8.0	8.5	9.5	10.2	11.0	8.0	8.2	8.5	8.0	8.0	8.0
0601 - 1200	7.0	7.2	7.5	9.5	10.2	11.0	8.0	-----	8.0	8.0	8.0	8.0
1201 - 1800	8.0	8.3	8.5	11.5	11.5	11.5	12.0	-----	12.0	8.0	8.5	9.0
1801 - 2400	8.0	8.3	8.5	10.0	10.8	11.5	10.0	10.5	11.0	8.5	8.7	9.0
DAILY VALUE	7.0	8.0	8.5	9.5	10.7	11.5	8.0	-----	12.0	8.0	8.3	9.0
0001 - 0600	6.5	7.0	7.5	9.0	9.2	9.5	8.5	8.7	9.0	7.0	7.3	7.5
0601 - 1200	6.5	7.5	8.5	9.0	9.3	10.0	8.0	8.3	8.5	7.0	7.7	8.5
1201 - 1800	10.0	10.7	11.5	11.0	11.3	11.5	9.0	9.5	10.0	10.0	10.8	11.5
1801 - 2400	9.0	10.0	11.0	10.0	10.5	11.0	9.0	9.7	10.5	10.0	10.8	11.5
DAILY VALUE	6.5	8.8	11.5	9.0	10.1	11.5	8.0	9.0	10.5	7.0	9.2	11.5
0001 - 0600	6.0	6.8	8.0	8.5	8.8	9.0	6.5	7.2	8.0	8.5	9.0	9.5
0601 - 1200	6.0	7.0	8.5	8.5	8.8	9.5	6.5	8.2	10.0	8.5	8.7	9.0
1201 - 1800	11.0	12.2	13.0	10.5	10.8	11.0	12.0	13.2	14.0	10.0	10.8	11.5
1801 - 2400	10.5	11.5	12.5	10.0	10.5	11.0	11.0	12.3	13.5	10.0	10.8	11.5
DAILY VALUE	6.0	9.4	13.0	8.5	9.7	11.0	6.5	10.2	14.0	8.5	9.8	11.5
0001 - 0600	7.0	8.0	9.0	8.5	9.0	9.5	7.5	8.7	10.0	8.0	8.5	9.0
0601 - 1200	7.0	8.0	9.0	8.5	8.7	9.0	7.5	8.8	10.5	8.0	8.7	9.5
1201 - 1800	10.5	11.2	11.5	9.5	10.0	10.5	12.5	13.3	14.0	10.5	11.5	12.0
1801 - 2400	10.0	10.8	11.5	9.5	10.0	10.5	12.5	13.3	14.0	11.0	11.5	12.0
DAILY VALUE	7.0	9.5	11.5	8.5	9.4	10.5	7.5	11.0	14.0	8.0	10.0	12.0
0001 - 0600	7.5	8.2	9.0	8.0	8.5	9.0	9.0	10.0	11.0	9.0	9.5	10.0
0601 - 1200	7.5	8.5	9.5	8.0	8.7	9.5	8.5	9.0	9.5	9.0	9.0	9.0
1201 - 1800	11.0	11.3	11.5	11.0	11.3	11.5	10.0	10.3	10.5	9.1	9.1	9.1
1801 - 2400	10.0	10.8	11.5	10.5	11.0	11.5	10.0	10.3	10.5	8.6	8.9	9.1
DAILY VALUE	7.5	9.7	11.5	8.0	9.9	11.5	8.5	9.9	11.0	8.6	9.1	10.0
0001 - 0600	7.5	8.2	9.0	8.5	8.8	9.5	9.0	9.2	9.5	7.1	7.6	8.1
0601 - 1200	7.5	8.3	9.5	8.5	8.7	9.0	8.5	8.7	9.0	7.1	7.4	7.6
1201 - 1800	11.5	12.2	12.5	10.0	10.7	11.0	10.0	10.0	10.0	7.6	7.9	8.1
1801 - 2400	10.5	11.5	12.5	10.0	10.5	11.0	9.0	9.2	9.5	7.6	7.8	8.1
DAILY VALUE	7.5	10.0	12.5	8.5	9.7	11.0	8.5	9.2	10.0	7.1	7.7	8.1
0001 - 0600	7.0	8.0	9.0	8.0	8.5	9.0	8.0	8.2	8.5	6.6	6.9	7.1
0601 - 1200	7.0	8.5	10.5	8.0	8.7	9.5	8.0	8.0	8.0	6.6	6.9	7.1
1201 - 1800	13.0	14.5	15.5	10.5	10.5	10.5	8.5	8.5	8.5	8.1	8.6	9.1
1801 - 2400	13.0	14.0	15.0	9.5	9.8	10.0	8.5	8.5	8.5	7.6	8.4	9.1
DAILY VALUE	7.0	11.2	15.5	8.0	9.4	10.5	8.0	8.3	8.5	6.6	7.7	9.1
0001 - 0600	9.5	10.3	11.5	8.0	8.5	9.0	8.0	8.0	8.0	MONTHLY VALUE		
0601 - 1200	9.5	10.2	11.0	8.0	8.2	8.5	8.0	8.2	8.5			
1201 - 1800	12.5	12.8	13.0	9.0	9.7	10.0	8.5	8.7	9.0	6.0 9.5 15.5		
1801 - 2400	11.5	12.2	13.0	9.0	9.5	10.0	8.0	8.3	8.5			
DAILY VALUE	9.5	11.4	13.0	8.0	9.0	10.0	8.0	8.3	9.0			

Appendix Table 4-C-21 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	6.1	6.6	7.1	6.6	6.9	7.1	---	---	---	---	---	---
0601 - 1200	6.1	6.8	7.6	6.6	6.8	7.1	---	---	---	---	---	---
1201 - 1800	8.6	9.4	10.1	8.1	8.4	8.6	---	---	---	---	---	---
1801 - 2400	8.1	8.8	9.6	7.6	8.1	8.6	---	---	---	---	---	---
DAILY VALUE	6.1	7.9	10.1	6.6	7.6	8.6	---	---	---	---	---	---
0001 - 0600	6.1	6.6	7.1	6.6	6.8	7.1	---	---	---	---	---	---
0601 - 1200	6.1	6.9	8.1	6.6	6.9	7.6	---	---	---	---	---	---
1201 - 1800	8.6	9.1	9.6	7.6	7.9	8.1	---	---	---	---	---	---
1801 - 2400	8.1	8.9	9.6	7.1	7.6	8.1	---	---	---	---	---	---
DAILY VALUE	6.1	7.9	9.6	6.6	7.3	8.1	---	---	---	---	---	---
0001 - 0600	5.6	6.3	7.1	6.1	6.6	7.1	---	---	---	---	---	---
0601 - 1200	5.6	6.8	8.1	6.1	6.6	7.1	---	---	---	---	---	---
1201 - 1800	9.6	10.4	11.1	8.6	8.9	9.1	---	---	---	---	---	---
1801 - 2400	8.6	9.6	10.6	7.6	8.4	9.1	---	---	---	---	---	---
DAILY VALUE	5.6	8.3	11.1	6.1	7.6	9.1	---	---	---	---	---	---
0001 - 0600	6.1	6.8	7.6	5.1	5.8	6.6	---	---	---	---	---	---
0601 - 1200	5.6	6.8	8.1	4.6	5.8	7.1	---	---	---	---	---	---
1201 - 1800	10.1	10.8	11.1	9.1	10.1	10.6	---	---	---	---	---	---
1801 - 2400	9.1	9.8	10.6	8.6	9.4	10.6	---	---	---	---	---	---
DAILY VALUE	5.6	8.5	11.1	4.6	7.8	10.6	---	---	---	---	---	---
0001 - 0600	6.6	7.3	8.1	6.1	6.8	7.6	---	---	---	---	---	---
0601 - 1200	6.6	7.4	8.6	6.1	6.9	8.1	---	---	---	---	---	---
1201 - 1800	9.1	10.1	10.6	10.1	11.1	11.6	---	---	---	---	---	---
1801 - 2400	8.6	9.3	10.1	10.6	11.1	11.6	---	---	---	---	---	---
DAILY VALUE	6.6	8.5	10.6	6.1	9.0	11.6	---	---	---	---	---	---
0001 - 0600	6.1	6.9	7.6	8.6	9.1	9.6	---	---	---	---	---	---
0601 - 1200	6.1	7.3	8.6	8.6	8.6	8.6	---	---	---	---	---	---
1201 - 1800	9.6	9.9	10.1	8.6	9.1	9.6	---	---	---	---	---	---
1801 - 2400	8.6	9.4	10.1	8.6	9.1	9.6	---	---	---	---	---	---
DAILY VALUE	6.1	8.4	10.1	8.6	9.0	9.6	---	---	---	---	---	---
0001 - 0600	6.6	7.1	7.6	7.1	7.6	8.1	---	---	---	---	---	---
0601 - 1200	6.1	6.9	8.1	7.1	7.3	7.6	---	---	---	---	---	---
1201 - 1800	8.6	8.9	9.1	8.1	8.1	8.1	---	---	---	---	---	---
1801 - 2400	8.1	8.6	9.1	---	---	---	---	---	---	---	---	---
DAILY VALUE	6.1	7.9	9.1	7.1	---	8.1	---	---	---	---	---	---
0001 - 0600	6.6	7.1	7.6	---	---	---	---	---	---	MONTHLY VALUE		
0601 - 1200	6.6	7.1	7.6	---	---	---	---	---	---			
1201 - 1800	8.6	8.6	8.6	---	---	---	---	---	---			
1801 - 2400	7.6	8.1	8.6	---	---	---	---	---	---			
DAILY VALUE	6.6	7.7	8.6	---	---	---	---	---	---	4.6 --- 11.6		

Appendix Table 4-C-21 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	---	---	---	6.0	6.2	6.5	5.0	5.2	5.5	---	---	---
0601 - 1200	---	---	---	6.0	6.2	6.5	5.0	5.2	5.5	---	---	---
1201 - 1800	---	---	---	7.0	7.0	7.0	5.5	5.8	6.0	---	---	---
1801 - 2400	---	---	---	6.5	6.5	6.5	5.0	5.3	5.5	---	---	---
DAILY VALUE	---	---	---	6.0	6.5	7.0	5.0	5.4	6.0	---	---	---
0001 - 0600	---	---	---	5.5	5.8	6.0	4.5	4.7	5.0	---	---	---
0601 - 1200	---	---	---	5.5	5.7	6.0	4.5	4.8	5.5	---	---	---
1201 - 1800	---	---	---	6.5	6.5	6.5	5.5	5.8	6.0	---	---	---
1801 - 2400	---	---	---	5.5	6.0	6.5	6.0	6.0	6.0	---	---	---
DAILY VALUE	---	---	---	5.5	6.0	6.5	4.5	5.3	6.0	---	---	---
0001 - 0600	---	---	---	4.5	4.7	5.0	5.5	5.5	5.5	---	---	---
0601 - 1200	---	---	---	4.0	4.5	5.0	5.5	---	5.5	5.5	---	5.5
1201 - 1800	---	---	---	5.0	5.3	5.5	---	---	---	5.0	5.0	5.0
1801 - 2400	---	---	---	4.0	4.3	4.5	---	---	---	3.5	4.3	5.0
DAILY VALUE	---	---	---	4.0	4.7	5.5	5.5	---	5.5	3.5	---	5.5
0001 - 0600	---	---	---	4.0	4.0	4.0	---	---	---	2.0	2.5	3.0
0601 - 1200	---	---	---	4.0	4.3	5.0	---	---	---	2.0	2.2	2.5
1201 - 1800	---	---	---	5.5	5.8	6.0	---	---	---	3.0	3.0	3.0
1801 - 2400	---	---	---	5.5	5.7	6.0	---	---	---	3.0	3.0	3.0
DAILY VALUE	---	---	---	4.0	5.0	6.0	---	---	---	2.0	2.7	3.0
0001 - 0600	---	---	---	4.5	4.8	5.0	---	---	---	3.0	3.0	3.0
0601 - 1200	---	---	---	4.5	4.5	4.5	---	---	---	2.5	2.7	3.0
1201 - 1800	---	---	---	5.0	5.3	5.5	---	---	---	3.5	3.5	3.5
1801 - 2400	---	---	---	5.5	5.7	6.0	---	---	---	3.5	3.5	3.5
DAILY VALUE	---	---	---	4.5	5.1	6.0	---	---	---	2.5	3.2	3.5
0001 - 0600	---	---	---	5.0	5.3	5.5	---	---	---	3.0	3.2	3.5
0601 - 1200	---	---	---	5.0	5.2	5.5	---	---	---	3.0	3.0	3.0
1201 - 1800	---	---	---	5.5	5.5	5.5	---	---	---	3.5	3.5	3.5
1801 - 2400	---	---	---	5.5	5.5	5.5	---	---	---	3.0	3.3	3.5
DAILY VALUE	---	---	---	5.0	5.4	5.5	---	---	---	3.0	3.2	3.5
0001 - 0600	---	---	---	5.5	5.5	5.5	---	---	---	---	---	---
0601 - 1200	---	---	---	5.5	6.0	6.5	---	---	---	---	---	---
1201 - 1800	---	---	---	7.5	7.8	8.0	---	---	---	---	---	---
1801 - 2400	---	---	---	7.0	7.2	7.5	---	---	---	---	---	---
DAILY VALUE	---	---	---	5.5	6.6	8.0	---	---	---	---	---	---
0001 - 0600	---	---	---	6.0	6.2	6.5	---	---	---	MONTHLY VALUE		
0601 - 1200	---	---	---	6.0	6.0	6.0	---	---	---			
1201 - 1800	---	---	---	6.5	6.5	6.5	---	---	---			
1801 - 2400	6.5	6.7	7.0	5.5	5.7	6.0	---	---	---	2.0	---	8.0
DAILY VALUE	6.5	---	7.0	5.5	6.1	6.5	---	---	---			

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Appendix Table 4-C-21 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	2.0	2.3	2.5	.5	.5	.5	---	---	---	---	---	---
0601 - 1200	2.0	2.2	2.5	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	3.0	3.0	3.0	1.0	1.0	1.0	---	---	---	---	---	---
1801 - 2400	2.5	2.8	3.0	1.0	1.0	1.0	---	---	---	---	---	---
DAILY VALUE	2.0	2.5	3.0	.5	.7	1.0	---	---	---	---	---	---
0001 - 0600	2.0	2.3	2.5	.5	.7	1.0	---	---	---	---	---	---
0601 - 1200	2.0	2.2	2.5	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	3.0	3.0	3.0	1.0	1.0	1.0	---	---	---	---	---	---
1801 - 2400	2.5	2.8	3.0	.5	.7	1.0	---	---	---	---	---	---
DAILY VALUE	2.0	2.6	3.0	.5	.7	1.0	---	---	---	---	---	---
0001 - 0600	2.0	2.2	2.5	.5	.5	.5	---	---	---	---	---	---
0601 - 1200	2.0	2.2	2.5	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	2.5	2.7	3.0	.5	.5	.5	---	---	---	---	---	---
1801 - 2400	2.5	2.7	3.0	.5	.5	.5	---	---	---	---	---	---
DAILY VALUE	2.0	2.4	3.0	.5	.5	.5	---	---	---	---	---	---
0001 - 0600	1.5	1.8	2.0	.5	.5	.5	---	---	---	---	---	---
0601 - 1200	1.5	1.5	1.5	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	1.5	1.8	2.0	.5	1.0	1.5	---	---	---	---	---	---
1801 - 2400	2.0	2.0	2.0	1.5	1.5	1.5	---	---	---	---	---	---
DAILY VALUE	1.5	1.8	2.0	.5	.9	1.5	---	---	---	---	---	---
0001 - 0600	1.5	1.5	1.5	.5	.8	1.0	---	---	---	---	---	---
0601 - 1200	1.5	1.5	1.5	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	1.5	1.5	1.5	.5	.5	.5	---	---	---	---	---	---
1801 - 2400	1.0	1.2	1.5	.5	.5	.5	---	---	---	---	---	---
DAILY VALUE	1.0	1.4	1.5	.5	.6	1.0	---	---	---	---	---	---
0001 - 0600	.5	.5	.5	.5	.5	.5	---	---	---	---	---	---
0601 - 1200	.5	.5	.5	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	2.0	2.0	2.0	.5	.5	.5	---	---	---	---	---	---
1801 - 2400	.5	1.0	2.0	.5	.5	.5	---	---	---	---	---	---
DAILY VALUE	.5	1.0	2.0	.5	.5	.5	---	---	---	---	---	---
0001 - 0600	.5	.5	.5	.5	.5	.5	---	---	---	---	---	---
0601 - 1200	.5	.5	.5	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	.5	1.5	2.0	.5	.5	.5	---	---	---	---	---	---
1801 - 2400	.5	1.0	2.0	.5	.5	.5	---	---	---	---	---	---
DAILY VALUE	.5	.9	2.0	.5	.5	.5	---	---	---	---	---	---
0001 - 0600	.5	.5	.5	.5	.5	.5	---	---	---	MONTHLY VALUE		
0601 - 1200	.5	.5	.5	.5	.5	.5	---	---	---			
1201 - 1800	.5	.8	1.0	---	---	---	---	---	---			
1801 - 2400	.5	.8	1.0	---	---	---	---	---	---			
DAILY VALUE	.5	.7	1.0	.5	---	.5	---	---	---			

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Appendix Table 4-C-22 Thermograph data summary, summer surface water temperature (C),
Kosina Creek, RM 206.8, Geocode S31N08E15BAB.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	11.0	----	11.0
1201 - 1800	----	----	----	----	----	----	----	----	----	12.0	13.3	14.5
1801 - 2400	----	----	----	----	----	----	----	----	----	12.5	13.7	14.5
DAILY VALUE	----	----	----	----	----	----	----	----	----	11.0	----	14.5
0001 - 0600	----	----	----	----	----	----	----	----	----	10.0	10.8	11.5
0601 - 1200	----	----	----	----	----	----	----	----	----	9.5	9.8	10.5
1201 - 1800	----	----	----	----	----	----	----	----	----	11.5	12.0	12.5
1801 - 2400	----	----	----	----	----	----	----	----	----	10.5	11.0	11.5
DAILY VALUE	----	----	----	----	----	----	----	----	----	9.5	10.9	12.5
0001 - 0600	----	----	----	----	----	----	----	----	----	8.5	9.0	9.5
0601 - 1200	----	----	----	----	----	----	----	----	----	8.5	8.5	8.5
1201 - 1800	----	----	----	----	----	----	----	----	----	9.5	10.0	10.5
1801 - 2400	----	----	----	----	----	----	----	----	----	10.5	10.5	10.5
DAILY VALUE	----	----	----	----	----	----	----	----	----	8.5	9.5	10.5
0001 - 0600	----	----	----	----	----	----	----	----	----	7.5	8.3	9.5
0601 - 1200	----	----	----	----	----	----	----	----	----	7.0	7.0	7.0
1201 - 1800	----	----	----	----	----	----	----	----	----	6.5	6.8	7.0
1801 - 2400	----	----	----	----	----	----	----	----	----	7.5	8.5	9.5
DAILY VALUE	----	----	----	----	----	----	----	----	----	6.5	7.7	9.5
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	MONTHLY VALUE		
0601 - 1200	----	----	----	----	----	----	----	----	----			
1201 - 1800	----	----	----	----	----	----	----	----	----			
1801 - 2400	----	----	----	----	----	----	----	----	----			
DAILY VALUE	----	----	----	----	----	----	----	----	----	6.5	----	14.5

4-C-77

Appendix Table 4-C-22 Cont.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.5	9.0	9.5	11.0	11.5	12.0	9.0	9.5	10.0	10.5	11.0	11.5
0601 - 1200	8.5	8.5	8.5	10.5	10.7	11.0	9.0	9.3	10.0	10.5	10.5	10.5
1201 - 1800	8.5	9.0	9.5	11.5	12.0	12.5	10.5	11.0	11.5	11.0	11.5	12.0
1801 - 2400	9.0	9.3	9.5	12.0	12.3	12.5	12.0	12.0	12.0	12.0	12.3	12.5
DAILY VALUE	8.5	9.0	9.5	10.5	11.6	12.5	9.0	10.5	12.0	10.5	11.3	12.5
0001 - 0600	8.0	8.5	9.0	11.5	11.7	12.0	10.5	11.0	11.5	10.0	10.7	11.5
0601 - 1200	8.0	8.7	9.5	11.0	11.0	11.0	10.0	10.0	10.0	10.0	10.5	11.0
1201 - 1800	10.0	10.7	11.0	11.5	11.5	11.5	11.0	11.3	11.5	13.5	13.7	14.0
1801 - 2400	10.5	10.8	11.0	11.0	11.2	11.5	11.5	11.8	12.0	13.5	13.8	14.0
DAILY VALUE	8.0	9.7	11.0	11.0	11.3	12.0	10.0	11.0	12.0	10.0	12.2	14.0
0001 - 0600	7.5	8.5	9.5	9.5	10.0	10.5	9.5	10.3	11.0	11.5	11.8	12.5
0601 - 1200	7.0	8.2	9.5	9.5	9.7	10.0	9.5	10.3	11.5	11.5	11.8	12.5
1201 - 1800	11.0	12.3	13.5	10.5	11.0	11.5	13.0	14.3	15.5	13.5	14.5	15.0
1801 - 2400	13.0	13.3	13.5	11.0	11.2	11.5	15.0	15.7	16.0	14.0	14.5	15.0
DAILY VALUE	7.0	10.6	13.5	9.5	10.5	11.5	9.5	12.7	16.0	11.5	13.2	15.0
0001 - 0600	9.5	10.5	11.5	10.5	10.5	10.5	11.5	12.5	13.5	12.0	12.7	13.5
0601 - 1200	9.5	10.2	11.0	10.0	10.2	10.5	11.0	11.8	13.0	11.5	12.0	12.5
1201 - 1800	12.0	12.7	13.0	11.0	11.3	11.5	14.0	15.0	16.0	14.0	14.7	15.0
1801 - 2400	12.5	12.8	13.0	11.0	11.3	11.5	15.0	15.5	16.0	14.0	14.5	15.0
DAILY VALUE	9.5	11.5	13.0	10.0	10.8	11.5	11.0	13.7	16.0	11.5	13.5	15.0
0001 - 0600	9.5	10.5	11.5	10.0	10.2	10.5	11.5	12.5	13.5	12.0	12.7	13.5
0601 - 1200	9.0	9.5	10.0	9.5	10.0	10.5	11.5	11.8	12.5	12.0	12.2	12.5
1201 - 1800	11.0	12.2	13.0	11.0	11.8	12.5	13.0	13.3	13.5	12.5	12.5	12.5
1801 - 2400	12.0	12.5	13.0	12.0	12.3	12.5	13.0	13.3	13.5	12.0	12.3	12.5
DAILY VALUE	9.0	11.2	13.0	9.5	11.1	12.5	11.5	12.7	13.5	12.0	12.4	13.5
0001 - 0600	9.5	10.2	11.0	10.0	10.7	11.5	11.5	11.7	12.0	11.0	11.3	11.5
0601 - 1200	9.5	10.2	11.0	10.0	10.2	10.5	11.0	11.2	11.5	11.0	11.0	11.0
1201 - 1800	12.0	12.8	13.5	10.5	10.7	11.0	12.0	12.3	12.5	11.0	11.3	11.5
1801 - 2400	12.5	13.0	13.5	11.5	11.8	12.0	12.0	12.3	12.5	11.0	11.3	11.5
DAILY VALUE	9.5	11.5	13.5	10.0	10.8	12.0	11.0	11.9	12.5	11.0	11.2	11.5
0001 - 0600	9.5	10.3	11.5	10.0	10.5	11.0	11.0	11.2	11.5	9.5	10.0	10.5
0601 - 1200	9.0	10.2	11.5	10.0	10.0	10.0	10.5	10.7	11.0	9.5	9.8	10.5
1201 - 1800	13.5	14.5	15.5	10.5	10.8	11.0	11.0	11.5	12.0	11.5	11.8	12.0
1801 - 2400	15.5	15.8	16.0	11.0	11.0	11.0	11.5	11.8	12.0	11.5	11.8	12.0
DAILY VALUE	9.0	12.7	16.0	10.0	10.6	11.0	10.5	11.3	12.0	9.5	10.9	12.0
0001 - 0600	12.5	13.3	14.5	10.0	10.2	10.5	11.0	11.2	11.5	MONTHLY VALUE		
0601 - 1200	12.0	12.2	12.5	9.5	9.7	10.0	11.0	11.2	11.5			
1201 - 1800	13.0	13.5	14.5	10.0	10.7	11.0	12.0	12.0	12.0	7.0 11.5 16.0		
1801 - 2400	13.0	13.8	14.5	10.5	10.8	11.0	11.5	11.8	12.0			
DAILY VALUE	12.0	13.2	14.5	9.5	10.3	11.0	11.0	11.5	12.0			

Appendix Table 4-C-22 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	9.5	10.0	10.5	9.5	10.0	10.5	9.0	9.2	9.5	---	---	---
0601 - 1200	9.5	10.0	10.5	9.0	9.5	10.0	9.5	9.7	10.0	---	---	---
1201 - 1800	12.0	12.7	13.0	10.5	10.7	11.0	8.0	8.5	9.0	---	---	---
1801 - 2400	12.0	12.5	13.0	11.0	11.0	11.0	7.5	7.7	8.0	---	---	---
DAILY VALUE	9.5	11.3	13.0	9.0	10.3	11.0	7.5	8.7	10.0	---	---	---
0001 - 0600	9.5	10.2	11.0	9.5	10.0	10.5	---	---	---	---	---	---
0601 - 1200	9.0	9.7	10.5	9.5	9.7	10.0	---	---	---	---	---	---
1201 - 1800	11.5	12.3	13.0	10.5	10.8	11.0	---	---	---	---	---	---
1801 - 2400	12.5	12.8	13.0	10.5	10.7	11.0	---	---	---	---	---	---
DAILY VALUE	9.0	11.2	13.0	9.5	10.3	11.0	---	---	---	---	---	---
0001 - 0600	10.0	10.7	11.5	9.0	9.5	10.0	---	---	---	---	---	---
0601 - 1200	9.5	9.8	10.5	9.0	9.2	9.5	---	---	---	---	---	---
1201 - 1800	12.5	12.8	13.0	10.5	10.8	11.0	---	---	---	---	---	---
1801 - 2400	13.0	13.3	13.5	10.5	10.8	11.0	---	---	---	---	---	---
DAILY VALUE	9.5	11.7	13.5	9.0	10.1	11.0	---	---	---	---	---	---
0001 - 0600	10.0	11.0	12.0	8.5	9.3	10.5	---	---	---	---	---	---
0601 - 1200	9.5	10.2	11.0	8.0	8.8	10.0	---	---	---	---	---	---
1201 - 1800	12.5	13.5	14.5	11.5	12.5	13.5	---	---	---	---	---	---
1801 - 2400	13.5	14.0	14.5	12.5	13.2	13.5	---	---	---	---	---	---
DAILY VALUE	9.5	12.2	14.5	8.0	11.0	13.5	---	---	---	---	---	---
0001 - 0600	11.0	11.7	12.5	10.0	11.0	12.0	---	---	---	---	---	---
0601 - 1200	11.0	11.3	12.0	10.0	10.3	11.0	---	---	---	---	---	---
1201 - 1800	13.0	13.5	14.0	13.0	13.3	13.5	---	---	---	---	---	---
1801 - 2400	13.0	13.5	14.0	11.5	12.0	12.5	---	---	---	---	---	---
DAILY VALUE	11.0	12.5	14.0	10.0	11.7	13.5	---	---	---	---	---	---
0001 - 0600	10.5	11.2	12.0	11.5	11.8	12.0	---	---	---	---	---	---
0601 - 1200	10.0	10.7	11.5	12.5	12.5	12.5	---	---	---	---	---	---
1201 - 1800	12.0	12.8	13.5	11.5	12.0	12.5	---	---	---	---	---	---
1801 - 2400	13.0	13.5	14.0	10.0	10.5	11.0	---	---	---	---	---	---
DAILY VALUE	10.0	12.0	14.0	10.0	11.7	12.5	---	---	---	---	---	---
0001 - 0600	11.0	11.5	12.0	10.0	10.2	10.5	---	---	---	---	---	---
0601 - 1200	11.0	11.2	11.5	10.5	10.8	11.0	---	---	---	---	---	---
1201 - 1800	12.5	12.5	12.5	9.5	10.0	10.5	---	---	---	---	---	---
1801 - 2400	11.5	12.0	12.5	8.0	8.2	8.5	---	---	---	---	---	---
DAILY VALUE	11.0	11.8	12.5	8.0	9.8	11.0	---	---	---	---	---	---
0001 - 0600	10.0	10.5	11.0	8.0	9.0	10.0	---	---	---	MONTHLY VALUE		
0601 - 1200	10.0	10.2	10.5	11.0	11.3	11.5	---	---	---			
1201 - 1800	10.5	10.8	11.0	10.0	10.8	11.5	---	---	---			
1801 - 2400	11.0	11.2	11.5	9.0	9.2	9.5	---	---	---	7.5 --- 14.5		
DAILY VALUE	10.0	10.7	11.5	8.0	10.1	11.5	---	---	---			

Appendix Table 4-C-22 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	---	---	---	---	---	---	---	---	---	2.6	2.9	3.1
0601 - 1200	---	---	---	---	---	---	---	---	---	2.6	2.6	2.6
1201 - 1800	---	---	---	---	---	---	---	---	---	3.1	3.6	4.1
1801 - 2400	---	---	---	---	---	---	---	---	---	4.6	4.6	4.6
DAILY VALUE	---	---	---	---	---	---	---	---	---	2.6	3.4	4.6
0001 - 0600	---	---	---	---	---	---	---	---	---	3.6	3.9	4.1
0601 - 1200	---	---	---	---	---	---	---	---	---	3.1	3.3	3.6
1201 - 1800	---	---	---	---	---	---	---	---	---	3.6	3.9	4.1
1801 - 2400	---	---	---	---	---	---	---	---	---	4.1	4.1	4.1
DAILY VALUE	---	---	---	---	---	---	---	---	---	3.1	3.8	4.1
0001 - 0600	---	---	---	---	---	---	---	---	---	3.6	3.8	4.1
0601 - 1200	---	---	---	---	---	---	---	---	---	3.1	3.1	3.1
1201 - 1800	---	---	---	---	---	---	6.6	6.6	6.6	4.6	4.6	4.6
1801 - 2400	---	---	---	---	---	---	6.1	6.3	6.6	3.6	4.1	4.6
DAILY VALUE	---	---	---	---	---	---	6.1	---	6.6	3.1	3.8	4.6
0001 - 0600	---	---	---	---	---	---	5.1	5.3	5.6	1.6	2.3	3.1
0601 - 1200	---	---	---	---	---	---	4.6	4.6	4.6	1.6	1.6	1.6
1201 - 1800	---	---	---	---	---	---	5.1	5.3	5.6	1.6	1.9	2.1
1801 - 2400	---	---	---	---	---	---	5.1	5.4	5.6	2.1	2.1	2.1
DAILY VALUE	---	---	---	---	---	---	4.6	5.1	5.6	1.6	2.0	3.1
0001 - 0600	---	---	---	---	---	---	4.6	4.8	5.1	2.1	2.1	2.1
0601 - 1200	---	---	---	---	---	---	4.1	4.1	4.1	1.6	1.8	2.1
1201 - 1800	---	---	---	---	---	---	4.6	4.9	5.1	2.1	2.3	2.6
1801 - 2400	---	---	---	---	---	---	5.1	5.1	5.1	2.1	2.4	2.6
DAILY VALUE	---	---	---	---	---	---	4.1	4.7	5.1	1.6	2.1	2.6
0001 - 0600	---	---	---	---	---	---	4.1	4.6	5.1	1.6	1.9	2.1
0601 - 1200	---	---	---	---	---	---	4.1	4.1	4.1	1.6	1.8	2.1
1201 - 1800	---	---	---	---	---	---	4.6	4.9	5.1	2.6	2.6	2.6
1801 - 2400	---	---	---	---	---	---	4.6	4.9	5.1	2.6	2.6	2.6
DAILY VALUE	---	---	---	---	---	---	4.1	4.6	5.1	1.6	2.2	2.6
0001 - 0600	---	---	---	---	---	---	3.1	3.6	4.1	---	---	---
0601 - 1200	---	---	---	---	---	---	2.1	2.3	2.6	---	---	---
1201 - 1800	---	---	---	---	---	---	3.1	3.4	3.6	---	---	---
1801 - 2400	---	---	---	---	---	---	3.1	3.4	3.6	---	---	---
DAILY VALUE	---	---	---	---	---	---	2.1	3.2	4.1	---	---	---
0001 - 0600	---	---	---	---	---	---	1.6	2.3	3.1	MONTHLY VALUE		
0601 - 1200	---	---	---	---	---	---	1.1	1.1	1.1			
1201 - 1800	---	---	---	---	---	---	2.1	2.6	3.1			
1801 - 2400	---	---	---	---	---	---	3.1	3.1	3.1	1.1	---	6.6
DAILY VALUE	---	---	---	---	---	---	1.1	2.3	3.1			

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Appendix Table 4-C-22 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	1.6	1.9	2.1	.1	.1	.1	---	---	---	---	---	---
0601 - 1200	1.6	1.6	1.6	.1	.1	.1	---	---	---	---	---	---
1201 - 1800	2.1	2.3	2.6	.1	.1	.1	---	---	---	---	---	---
1801 - 2400	2.6	2.6	2.6	.1	.1	.1	---	---	---	---	---	---
DAILY VALUE	1.6	2.1	2.6	.1	.1	.1	---	---	---	---	---	---
0001 - 0600	2.1	2.3	2.6	.1	.1	.1	---	---	---	---	---	---
0601 - 1200	1.6	1.9	2.1	.1	.1	.1	---	---	---	---	---	---
1201 - 1800	2.1	2.4	2.6	.1	.1	.1	---	---	---	---	---	---
1801 - 2400	2.6	2.6	2.6	.1	.1	.1	---	---	---	---	---	---
DAILY VALUE	1.6	2.3	2.6	.1	.1	.1	---	---	---	---	---	---
0001 - 0600	2.1	2.1	2.1	.1	.1	.1	---	---	---	---	---	---
0601 - 1200	1.6	1.6	1.6	.1	.1	.1	---	---	---	---	---	---
1201 - 1800	1.6	1.9	2.1	.1	.1	.1	---	---	---	---	---	---
1801 - 2400	2.1	2.1	2.1	.1	.1	.1	---	---	---	---	---	---
DAILY VALUE	1.6	1.9	2.1	.1	.1	.1	---	---	---	---	---	---
0001 - 0600	1.1	1.4	1.6	.1	.1	.1	---	---	---	---	---	---
0601 - 1200	1.1	1.1	1.1	.1	.1	.1	---	---	---	---	---	---
1201 - 1800	1.1	1.4	1.6	.1	.1	.1	---	---	---	---	---	---
1801 - 2400	1.6	1.6	1.6	.1	.1	.1	---	---	---	---	---	---
DAILY VALUE	1.1	1.4	1.6	.1	.1	.1	---	---	---	---	---	---
0001 - 0600	1.1	1.3	1.6	.1	.1	.1	---	---	---	---	---	---
0601 - 1200	.6	.9	1.1	.1	.1	.1	---	---	---	---	---	---
1201 - 1800	1.1	1.1	1.1	.1	.1	.1	---	---	---	---	---	---
1801 - 2400	1.1	1.1	1.1	.1	.1	.1	---	---	---	---	---	---
DAILY VALUE	.6	1.1	1.6	.1	.1	.1	---	---	---	---	---	---
0001 - 0600	.6	.8	1.1	.1	.1	.1	---	---	---	---	---	---
0601 - 1200	.1	.1	.1	.1	.1	.1	---	---	---	---	---	---
1201 - 1800	.6	.6	.6	.1	.1	.1	---	---	---	---	---	---
1801 - 2400	.6	.6	.6	.1	.1	.1	---	---	---	---	---	---
DAILY VALUE	.1	.5	1.1	.1	.1	.1	---	---	---	---	---	---
0001 - 0600	.1	.4	.6	.1	.1	.1	---	---	---	---	---	---
0601 - 1200	.1	.1	.1	.1	.1	.1	---	---	---	---	---	---
1201 - 1800	.1	.4	.6	.1	.1	.1	---	---	---	---	---	---
1801 - 2400	.1	.3	.6	.1	.1	.1	---	---	---	---	---	---
DAILY VALUE	.1	.3	.6	.1	.1	.1	---	---	---	---	---	---
0001 - 0600	.1	.1	.1	.1	.1	.1	---	---	---	MONTHLY VALUE		
0601 - 1200	.1	.1	.1	.1	.1	.1	---	---	---			
1201 - 1800	.1	.1	.1	---	---	---	---	---	---			
1801 - 2400	.1	.1	.1	---	---	---	---	---	---			
DAILY VALUE	.1	.1	.1	.1	---	.1	---	---	---			

Appendix Table 4-C-23

Thermograph data summary, summer surface water temperature (C),
Goose Creek, RM 231.3, Geocode S30N11E32DBC.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	13.5	14.3	15.0
1801 - 2400	----	----	----	----	----	----	----	----	----	12.5	13.5	14.5
DAILY VALUE	----	----	----	----	----	----	----	----	----	12.5	----	15.0
0001 - 0600	----	----	----	----	----	----	----	----	----	10.5	11.0	11.5
0601 - 1200	----	----	----	----	----	----	----	----	----	10.0	10.8	12.0
1201 - 1800	----	----	----	----	----	----	----	----	----	13.0	13.3	13.5
1801 - 2400	----	----	----	----	----	----	----	----	----	10.5	11.5	12.5
DAILY VALUE	----	----	----	----	----	----	----	----	----	10.0	11.7	13.5
0001 - 0600	----	----	----	----	----	----	----	----	----	8.5	9.0	9.5
0601 - 1200	----	----	----	----	----	----	----	----	----	8.5	8.8	9.5
1201 - 1800	----	----	----	----	----	----	----	----	----	11.0	11.8	12.5
1801 - 2400	----	----	----	----	----	----	----	----	----	11.0	11.8	12.5
DAILY VALUE	----	----	----	----	----	----	----	----	----	8.5	10.4	12.5
0001 - 0600	----	----	----	----	----	----	----	----	----	9.5	9.8	10.5
0601 - 1200	----	----	----	----	----	----	----	----	----	9.5	9.7	10.0
1201 - 1800	----	----	----	----	----	----	----	----	----	11.5	11.5	11.5
1801 - 2400	----	----	----	----	----	----	----	----	----	10.0	10.8	11.5
DAILY VALUE	----	----	----	----	----	----	----	----	----	9.5	10.5	11.5
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	8.5	----	15.0
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----

April Table 4-C-23 Cont.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.5	8.8	9.5	11.5	12.0	12.5	8.5	9.0	9.5	10.5	10.8	11.0
0601 - 1200	8.5	9.0	9.5	11.5	11.7	12.0	8.5	8.8	9.5	10.5	10.5	10.5
1201 - 1800	10.0	10.7	11.0	12.5	12.8	13.0	10.5	11.0	11.5	11.0	12.5	13.5
1801 - 2400	9.5	10.0	10.5	12.0	12.5	13.0	10.5	10.8	11.0	12.0	12.5	13.0
DAILY VALUE	8.5	9.6	11.0	11.5	12.2	13.0	8.5	9.9	11.5	10.5	11.6	13.5
0001 - 0600	7.5	8.0	8.5	11.5	11.7	12.0	9.5	9.7	10.0	9.0	9.7	10.5
0601 - 1200	7.5	8.7	10.0	11.5	11.5	11.5	9.5	9.7	10.0	9.0	10.2	11.5
1201 - 1800	11.0	12.0	12.5	12.0	12.0	12.0	11.0	11.8	12.5	13.5	14.5	15.0
1801 - 2400	10.0	11.0	12.0	11.0	11.5	12.0	11.5	12.2	12.5	13.0	14.0	15.0
DAILY VALUE	7.5	9.9	12.5	11.0	11.7	12.0	9.5	10.8	12.5	9.0	12.1	15.0
0001 - 0600	7.0	7.7	8.5	10.0	10.3	10.5	9.0	9.8	10.5	10.5	11.2	12.0
0601 - 1200	7.0	8.0	9.5	10.0	10.2	10.5	9.0	10.2	11.5	10.5	11.7	13.0
1201 - 1800	11.5	13.0	14.0	11.5	12.3	13.0	14.0	15.0	15.5	14.5	15.7	16.5
1801 - 2400	11.5	12.5	13.5	12.0	12.5	13.0	13.0	14.3	15.5	13.5	14.5	15.5
DAILY VALUE	7.0	10.3	14.0	10.0	11.3	13.0	9.0	12.3	15.5	10.5	13.2	16.5
0001 - 0600	9.0	9.7	10.5	10.5	11.0	11.5	9.5	10.5	11.5	11.5	12.3	13.0
0601 - 1200	9.0	10.0	11.0	10.5	10.5	10.5	9.5	10.8	12.5	11.0	11.8	13.0
1201 - 1800	13.0	13.3	13.5	11.5	12.5	13.5	14.5	15.3	16.0	14.0	15.2	16.0
1801 - 2400	11.5	12.3	13.0	12.0	12.7	13.5	13.5	14.7	15.5	13.5	14.5	15.5
DAILY VALUE	9.0	11.3	13.5	10.5	11.7	13.5	9.5	12.8	16.0	11.0	13.5	16.0
0001 - 0600	9.0	9.5	10.0	10.5	10.7	11.0	11.0	11.7	12.5	12.0	12.5	13.0
0601 - 1200	8.5	9.7	11.0	10.0	10.7	11.5	11.0	11.7	12.5	12.0	12.2	12.5
1201 - 1800	12.0	12.7	13.5	13.0	13.0	13.0	14.0	14.0	14.0	13.0	13.2	13.5
1801 - 2400	11.5	12.2	13.0	11.5	12.2	13.0	12.0	13.0	14.0	12.5	13.2	13.5
DAILY VALUE	8.5	11.0	13.5	10.0	11.6	13.0	11.0	12.6	14.0	12.0	12.7	13.5
0001 - 0600	9.5	10.0	10.5	9.5	10.2	11.0	10.5	11.0	11.5	10.5	11.0	11.5
0601 - 1200	9.5	10.7	12.0	9.5	10.2	11.0	10.5	11.0	11.5	10.5	11.0	11.5
1201 - 1800	13.0	14.5	15.5	12.5	12.8	13.0	12.5	12.8	13.0	12.0	12.0	12.0
1801 - 2400	12.5	13.8	15.0	11.5	12.0	12.5	11.5	12.0	12.5	11.0	11.5	12.0
DAILY VALUE	9.5	12.2	15.5	9.5	11.3	13.0	10.5	11.7	13.0	10.5	11.4	12.0
0001 - 0600	9.5	10.2	11.0	10.0	10.5	11.0	10.5	10.7	11.0	10.0	10.0	10.0
0601 - 1200	9.5	11.0	13.0	10.0	10.0	10.0	10.5	10.5	10.5	10.0	10.3	11.0
1201 - 1800	15.0	16.0	16.5	10.5	11.2	11.5	11.5	12.0	12.5	12.5	13.0	13.5
1801 - 2400	15.0	15.8	16.5	10.5	11.0	11.5	11.5	12.0	12.5	11.0	11.7	12.5
DAILY VALUE	9.5	13.2	16.5	10.0	10.7	11.5	10.5	11.3	12.5	10.0	11.2	13.5
0001 - 0600	12.0	12.7	13.5	9.0	9.5	10.0	10.5	10.8	11.0	MONTHLY VALUE		
0601 - 1200	12.0	12.3	13.0	9.0	9.2	9.5	10.5	11.2	12.0			
1201 - 1800	15.0	15.3	15.5	10.0	10.7	11.0	12.5	12.8	13.0			
1801 - 2400	13.0	13.8	14.5	10.0	10.3	10.5	11.5	12.0	12.5			
DAILY VALUE	12.0	13.5	15.5	9.0	9.9	11.0	10.5	11.7	13.0			

Appendix Table 4C-25 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	9.5	10.0	10.5	8.5	9.3	10.0	9.0	9.3	10.0	9.5	10.0	10.5
0601 - 1200	9.5	10.3	11.0	9.0	9.7	10.5	9.0	9.5	10.0	9.5	10.2	11.0
1201 - 1800	12.0	12.0	12.0	11.0	11.7	12.0	10.5	10.7	11.0	12.0	12.3	12.5
1801 - 2400	10.5	11.2	12.0	10.5	11.2	12.0	9.0	9.8	10.5	10.0	11.0	12.0
DAILY VALUE	9.5	10.9	12.0	8.5	10.5	12.0	9.0	9.8	11.0	9.5	10.9	12.5
0001 - 0600	8.5	9.2	10.0	9.5	9.7	10.0	7.0	7.7	8.5	8.0	8.5	9.0
0601 - 1200	8.5	10.2	12.0	9.5	10.2	11.0	7.0	8.7	10.5	8.5	9.2	10.0
1201 - 1800	12.5	13.0	13.5	11.5	11.7	12.0	12.0	12.3	12.5	11.0	11.0	11.0
1801 - 2400	11.0	12.0	13.0	10.0	10.7	11.5	11.0	11.5	12.0	9.0	9.8	10.5
DAILY VALUE	8.5	11.1	13.5	9.5	10.5	12.0	7.0	10.0	12.5	8.0	9.6	11.0
0001 - 0600	9.5	9.8	10.5	9.0	9.3	9.5	9.0	9.5	10.0	8.0	8.5	9.0
0601 - 1200	9.5	10.8	12.5	9.0	9.5	10.0	9.0	10.0	11.5	7.5	8.8	10.5
1201 - 1800	13.5	14.2	14.5	11.5	11.8	12.0	13.0	13.0	13.0	12.0	12.0	12.0
1801 - 2400	12.0	12.7	13.5	10.0	11.0	12.0	10.5	11.5	12.5	9.5	10.5	11.5
DAILY VALUE	9.5	11.9	14.5	9.0	10.4	12.0	9.0	11.0	13.0	7.5	10.0	12.0
0001 - 0600	9.5	10.2	11.0	7.5	8.3	9.0	9.5	9.7	10.0	7.0	7.7	8.5
0601 - 1200	9.5	11.2	13.0	7.5	9.2	11.0	9.5	10.2	11.0	7.0	8.2	9.5
1201 - 1800	14.0	14.5	15.0	13.0	13.8	14.5	12.5	13.2	13.5	11.0	11.0	11.0
1801 - 2400	13.0	13.7	14.5	11.5	12.5	13.5	11.5	12.0	12.5	9.5	10.0	10.5
DAILY VALUE	9.5	12.4	15.0	7.5	11.0	14.5	9.5	11.2	13.5	7.0	9.2	11.0
0001 - 0600	10.0	10.7	11.5	9.0	9.7	10.5	10.5	10.7	11.0	8.0	8.2	8.5
0601 - 1200	10.5	11.7	13.0	9.0	10.7	12.5	10.0	10.7	11.5	8.0	8.0	8.0
1201 - 1800	14.0	14.3	14.5	14.5	15.2	15.5	13.0	13.3	13.5	8.5	8.8	9.0
1801 - 2400	12.5	13.2	14.0	12.5	13.5	14.5	12.0	12.5	13.0	9.0	9.0	9.0
DAILY VALUE	10.0	12.5	14.5	9.0	12.2	15.5	10.0	11.8	13.5	8.0	8.5	9.0
0001 - 0600	9.5	10.7	12.0	10.5	11.2	12.0	10.0	10.8	11.5	8.0	8.3	8.5
0601 - 1200	9.5	10.7	11.5	10.5	11.7	13.0	9.5	10.7	12.0	8.0	8.3	8.5
1201 - 1800	13.5	14.3	15.0	13.5	13.5	13.5	14.0	14.0	14.0	9.0	9.0	9.0
1801 - 2400	12.0	13.0	14.0	12.0	12.8	13.5	12.0	12.7	13.5	8.0	8.5	9.0
DAILY VALUE	9.5	12.2	15.0	10.5	12.3	13.5	9.5	12.0	14.0	8.0	8.5	9.0
0001 - 0600	10.5	11.0	11.5	10.5	10.8	11.5	11.0	11.5	12.0	7.5	7.8	8.0
0601 - 1200	10.5	11.3	12.5	10.0	10.5	11.0	11.0	11.3	12.0	7.5	8.0	8.5
1201 - 1800	12.5	12.5	12.5	11.5	11.7	12.0	13.0	13.2	13.5	10.0	10.0	10.0
1801 - 2400	11.0	11.5	12.0	10.0	10.5	11.0	11.5	12.0	12.5	8.0	8.5	9.0
DAILY VALUE	10.5	11.6	12.5	10.0	10.9	12.0	11.0	12.0	13.5	7.5	8.6	10.0
0001 - 0600	10.0	10.2	10.5	8.0	8.5	9.0	10.5	10.8	11.5	MONTHLY VALUE		
0601 - 1200	10.0	10.5	11.0	8.0	9.5	11.0	10.5	11.0	11.5			
1201 - 1800	11.5	11.8	12.0	12.5	12.5	12.5	12.0	12.5	13.0			
1801 - 2400	10.5	11.2	12.0	10.0	10.7	11.5	11.0	11.5	12.0			
DAILY VALUE	10.0	10.9	12.0	8.0	10.3	12.5	10.5	11.5	13.0			

Table 4-C-23 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	7.0	7.5	8.0	6.5	6.7	7.0	5.5	5.7	6.0	3.5	3.7	4.0
0601 - 1200	7.0	7.7	8.5	6.5	6.5	6.5	5.5	5.7	6.0	3.0	3.3	4.0
1201 - 1800	9.5	9.7	10.0	7.0	7.2	7.5	7.0	7.3	7.5	5.0	5.3	5.5
1801 - 2400	7.5	8.3	9.0	6.5	6.8	7.0	6.0	6.5	7.0	4.5	5.0	5.5
DAILY VALUE	7.0	8.3	10.0	6.5	6.8	7.5	5.5	6.3	7.5	3.0	4.3	5.5
0001 - 0600	6.5	6.7	7.0	5.5	5.7	6.0	5.5	5.7	6.0	3.5	3.8	4.5
0601 - 1200	6.5	7.3	8.5	5.5	5.7	6.0	5.0	5.5	6.0	3.5	3.7	4.0
1201 - 1800	9.0	9.3	9.5	6.5	7.2	7.5	6.5	6.8	7.0	4.5	4.8	5.0
1801 - 2400	8.0	8.5	9.0	6.5	6.7	7.0	6.0	6.3	6.5	4.5	4.5	4.5
DAILY VALUE	6.5	8.0	9.5	5.5	6.3	7.5	5.0	6.1	7.0	3.5	4.2	5.0
0001 - 0600	7.0	7.2	7.5	4.5	5.2	5.5	5.5	5.5	5.5	3.5	3.7	4.0
0601 - 1200	7.0	7.2	7.5	4.5	5.3	6.0	5.5	5.7	6.0	3.5	3.7	4.0
1201 - 1800	8.0	8.0	8.0	6.5	6.7	7.0	6.5	6.7	7.0	5.0	5.3	6.0
1801 - 2400	7.0	7.5	8.0	4.0	4.5	5.5	6.0	6.5	7.0	3.0	3.8	4.5
DAILY VALUE	7.0	7.5	8.0	4.0	5.4	7.0	5.5	6.1	7.0	3.0	4.1	6.0
0001 - 0600	6.0	6.5	7.0	3.5	3.7	4.0	4.5	5.0	5.5	1.0	1.7	2.0
0601 - 1200	5.5	6.2	7.0	3.0	3.7	4.5	4.5	4.8	5.5	1.0	1.5	2.0
1201 - 1800	7.5	7.8	8.0	5.5	5.7	6.0	6.0	6.3	6.5	2.5	2.5	2.5
1801 - 2400	6.5	7.3	8.0	5.5	5.7	6.0	5.5	6.0	6.5	2.0	2.0	2.0
DAILY VALUE	5.5	7.0	8.0	3.0	4.7	6.0	4.5	5.5	6.5	1.0	1.9	2.5
0001 - 0600	5.5	5.8	6.0	5.0	5.0	5.0	4.5	5.0	5.5	2.0	2.0	2.0
0601 - 1200	5.5	6.0	6.5	4.5	4.5	4.5	4.5	4.8	5.5	2.0	2.2	2.5
1201 - 1800	8.0	8.3	8.5	5.5	5.7	6.0	6.5	6.5	6.5	3.0	3.0	3.0
1801 - 2400	7.0	7.5	8.0	5.5	5.5	5.5	5.5	6.2	6.5	2.0	2.0	2.0
DAILY VALUE	5.5	6.9	8.5	4.5	5.2	6.0	4.5	5.6	6.5	2.0	2.3	3.0
0001 - 0600	6.0	6.7	7.0	5.0	5.3	5.5	4.5	4.7	5.0	1.5	1.8	2.0
0601 - 1200	6.0	6.5	7.5	5.0	5.5	6.0	4.5	4.7	5.0	1.0	1.5	2.0
1201 - 1800	8.0	8.5	9.0	6.5	6.5	6.5	6.0	6.0	6.0	2.5	3.0	3.5
1801 - 2400	8.0	8.3	8.5	6.0	6.3	6.5	5.0	5.3	5.5	2.5	2.8	3.0
DAILY VALUE	6.0	7.5	9.0	5.0	5.9	6.5	4.5	5.2	6.0	1.0	2.3	3.5
0001 - 0600	7.0	7.5	8.0	5.5	5.7	6.0	3.5	4.0	4.5	-----	-----	-----
0601 - 1200	7.0	7.3	7.5	5.5	6.0	7.0	3.5	3.8	4.5	-----	-----	-----
1201 - 1800	8.0	8.0	8.0	8.5	8.8	9.0	5.5	5.5	5.5	-----	-----	-----
1801 - 2400	7.5	7.8	8.0	7.5	8.0	8.5	3.5	4.5	5.5	-----	-----	-----
DAILY VALUE	7.0	7.7	8.0	5.5	7.1	9.0	3.5	4.5	5.5	-----	-----	-----
0001 - 0600	7.0	7.2	7.5	6.0	6.5	7.0	1.5	2.0	2.5	MONTHLY VALUE		
0601 - 1200	7.0	7.0	7.0	6.0	6.2	6.5	1.5	2.0	3.0			
1201 - 1800	7.0	7.3	7.5	7.5	7.5	7.5	4.0	4.3	4.5			
1801 - 2400	7.0	7.0	7.0	6.5	6.7	7.0	4.0	4.3	4.5	1.0 5.7 10.0		
DAILY VALUE	7.0	7.1	7.5	6.0	6.7	7.5	1.5	3.2	4.5			

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Appendix Table 4-c-23 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	1.0	1.5	2.0	0.0	0.0	0.0	---	---	---	---	---	---
0601 - 1200	1.0	1.3	2.0	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	2.5	2.8	3.0	1.0	1.0	1.0	---	---	---	---	---	---
1801 - 2400	2.5	2.7	3.0	1.0	1.0	1.0	---	---	---	---	---	---
DAILY VALUE	1.0	2.1	3.0	0.0	.6	1.0	---	---	---	---	---	---
0001 - 0600	2.0	2.0	2.0	.5	.7	1.0	---	---	---	---	---	---
0601 - 1200	2.0	2.0	2.0	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	3.0	3.0	3.0	1.0	1.0	1.0	---	---	---	---	---	---
1801 - 2400	2.5	2.8	3.0	.5	.5	.5	---	---	---	---	---	---
DAILY VALUE	2.0	2.5	3.0	.5	.7	1.0	---	---	---	---	---	---
0001 - 0600	1.5	1.8	2.0	.5	.5	.5	---	---	---	---	---	---
0601 - 1200	1.5	1.7	2.0	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	2.5	2.5	2.5	.5	.5	.5	---	---	---	---	---	---
1801 - 2400	1.5	1.8	2.0	.5	.5	.5	---	---	---	---	---	---
DAILY VALUE	1.5	2.0	2.5	.5	.5	.5	---	---	---	---	---	---
0001 - 0600	1.0	1.0	1.0	.5	.5	.5	---	---	---	---	---	---
0601 - 1200	.5	.8	1.0	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	2.0	2.0	2.0	.5	.5	.5	---	---	---	---	---	---
1801 - 2400	1.5	1.7	2.0	.5	.5	.5	---	---	---	---	---	---
DAILY VALUE	.5	1.4	2.0	.5	.5	.5	---	---	---	---	---	---
0001 - 0600	1.0	1.0	1.0	.5	.5	.5	---	---	---	---	---	---
0601 - 1200	.5	.8	1.0	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	1.5	1.5	1.5	.5	.5	.5	---	---	---	---	---	---
1801 - 2400	1.0	1.2	1.5	.5	.5	.5	---	---	---	---	---	---
DAILY VALUE	.5	1.1	1.5	.5	.5	.5	---	---	---	---	---	---
0001 - 0600	.5	.5	.5	.5	.5	.5	---	---	---	---	---	---
0601 - 1200	.5	.7	1.0	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	1.0	1.3	1.5	.5	.5	.5	---	---	---	---	---	---
1801 - 2400	1.0	1.2	1.5	.5	.5	.5	---	---	---	---	---	---
DAILY VALUE	.5	.9	1.5	.5	.5	.5	---	---	---	---	---	---
0001 - 0600	.5	.8	1.0	.5	.5	.5	---	---	---	---	---	---
0601 - 1200	.5	.5	.5	.5	.5	.5	---	---	---	---	---	---
1201 - 1800	.5	.8	1.0	.5	.5	.5	---	---	---	---	---	---
1801 - 2400	.5	.7	1.0	.5	.5	.5	---	---	---	---	---	---
DAILY VALUE	.5	.7	1.0	.5	.5	.5	---	---	---	---	---	---
0001 - 0600	.5	.5	.5	.5	.5	.5	---	---	---	MONTHLY VALUE		
0601 - 1200	.5	.5	.5	.5	.5	.5	---	---	---			
1201 - 1800	.5	.8	1.0	---	---	---	---	---	---			
1801 - 2400	0.0	.3	.5	---	---	---	---	---	---	0.0 --- 3.0		
DAILY VALUE	0.0	.5	1.0	.5	---	.5	---	---	---			

Appendix Table 4 C 24 Thermograph data summary, summer surface water temperature (C),
Oshetna River, RM 233.4, Geocode S30N11E34CCD.

- JUNE 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	10.3	11.6	12.8
1801 - 2400	----	----	----	----	----	----	----	----	----	12.8	12.8	12.8
DAILY VALUE	----	----	----	----	----	----	----	----	----	10.3	----	12.8
0001 - 0600	----	----	----	----	----	----	----	----	----	9.8	10.8	11.8
0601 - 1200	----	----	----	----	----	----	----	----	----	9.3	9.5	9.8
1201 - 1800	----	----	----	----	----	----	----	----	----	10.8	11.1	11.3
1801 - 2400	----	----	----	----	----	----	----	----	----	10.3	10.8	11.3
DAILY VALUE	----	----	----	----	----	----	----	----	----	9.3	10.5	11.8
0001 - 0600	----	----	----	----	----	----	----	----	----	8.8	9.3	9.8
0601 - 1200	----	----	----	----	----	----	----	----	----	8.3	8.5	8.8
1201 - 1800	----	----	----	----	----	----	----	----	----	9.3	10.1	10.8
1801 - 2400	----	----	----	----	----	----	----	----	----	10.8	10.8	10.8
DAILY VALUE	----	----	----	----	----	----	----	----	----	8.3	9.7	10.8
0001 - 0600	----	----	----	----	----	----	----	----	----	9.3	9.8	10.3
0601 - 1200	----	----	----	----	----	----	----	----	----	9.3	9.3	9.3
1201 - 1800	----	----	----	----	----	----	----	----	----	9.8	10.0	10.3
1801 - 2400	----	----	----	----	----	----	----	----	----	10.3	10.3	10.3
DAILY VALUE	----	----	----	----	----	----	----	----	----	9.3	9.8	10.3
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	MONTHLY VALUE		
0601 - 1200	----	----	----	----	----	----	----	----	----			
1201 - 1800	----	----	----	----	----	----	----	----	----			
1801 - 2400	----	----	----	----	----	----	----	----	----			
DAILY VALUE	----	----	----	----	----	----	----	----	----	8.3 ---- 12.8		

4-C-87

Appendix Table 4-C-24 Cont.

- JULY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.8	9.1	9.8	11.3	12.0	12.8	9.8	10.0	10.3	----	----	----
0601 - 1200	8.3	8.5	8.8	11.3	11.3	11.3	9.3	9.6	9.8	----	----	----
1201 - 1800	9.3	9.6	9.8	11.8	12.0	12.3	10.3	10.6	10.8	----	----	----
1801 - 2400	9.8	9.8	9.8	12.3	12.3	12.3	10.8	11.1	11.3	----	----	----
DAILY VALUE	8.3	9.3	9.8	11.3	11.9	12.8	9.3	10.3	11.3	----	----	----
0001 - 0600	8.3	8.8	9.3	11.8	12.0	12.3	10.3	10.6	10.8	----	----	----
0601 - 1200	8.3	8.8	9.3	11.3	11.3	11.3	10.3	10.3	10.3	----	----	----
1201 - 1800	-----	-----	-----	11.3	11.3	11.3	10.8	11.1	11.3	----	----	----
1801 - 2400	-----	-----	-----	11.3	11.3	11.3	11.3	11.3	11.3	----	----	----
DAILY VALUE	8.3	-----	9.3	11.3	11.5	12.3	10.3	10.8	11.3	----	----	----
0001 - 0600	-----	-----	-----	10.3	10.5	10.8	10.3	10.8	11.3	----	----	----
0601 - 1200	-----	-----	-----	9.8	10.0	10.3	10.3	11.0	11.8	----	----	----
1201 - 1800	-----	-----	-----	10.8	11.0	11.3	13.3	14.1	14.8	----	----	----
1801 - 2400	-----	-----	-----	11.3	11.3	11.3	14.3	14.6	14.8	----	----	----
DAILY VALUE	-----	-----	-----	9.8	10.7	11.3	10.3	12.6	14.8	----	----	----
0001 - 0600	-----	-----	-----	10.3	10.8	11.3	11.8	12.8	13.8	----	----	----
0601 - 1200	-----	-----	-----	10.3	10.3	10.3	11.8	12.3	12.8	----	----	----
1201 - 1800	-----	-----	-----	10.8	11.0	11.3	13.8	14.5	14.8	14.5	14.5	14.5
1801 - 2400	-----	-----	-----	10.8	10.8	10.8	14.3	14.6	14.8	14.0	14.3	14.5
DAILY VALUE	-----	-----	-----	10.3	10.7	11.3	11.8	13.5	14.8	14.0	-----	14.5
0001 - 0600	-----	-----	-----	10.3	10.6	10.8	12.3	13.0	13.8	12.5	13.0	13.5
0601 - 1200	-----	-----	-----	10.3	10.5	10.8	12.3	12.3	12.3	11.5	11.8	12.0
1201 - 1800	-----	-----	-----	11.3	11.6	11.8	12.8	12.8	12.8	12.0	12.2	12.5
1801 - 2400	-----	-----	-----	11.8	11.8	11.8	12.8	12.8	12.8	12.5	12.5	12.5
DAILY VALUE	-----	-----	-----	10.3	11.1	11.8	12.3	12.7	13.8	11.5	12.4	13.5
0001 - 0600	-----	-----	-----	10.3	10.8	11.3	11.3	11.8	12.3	11.0	11.5	12.0
0601 - 1200	-----	-----	-----	10.3	10.5	10.8	11.3	11.5	11.8	10.5	10.5	10.5
1201 - 1800	-----	-----	-----	10.8	11.1	11.3	12.3	-----	12.3	11.0	11.0	11.0
1801 - 2400	-----	-----	-----	11.3	11.3	11.3	-----	-----	-----	10.5	10.8	11.0
DAILY VALUE	-----	-----	-----	10.3	10.9	11.3	11.3	-----	12.3	10.5	11.0	12.0
0001 - 0600	-----	-----	-----	10.8	10.8	10.8	-----	-----	-----	10.0	10.2	10.5
0601 - 1200	-----	-----	-----	10.3	10.5	10.8	-----	-----	-----	10.0	10.2	10.5
1201 - 1800	-----	-----	-----	10.8	11.1	11.3	-----	-----	-----	11.5	11.7	12.0
1801 - 2400	-----	-----	-----	10.8	10.8	10.8	-----	-----	-----	11.5	11.8	12.0
DAILY VALUE	-----	-----	-----	10.3	10.8	11.3	-----	-----	-----	10.0	11.0	12.0
0001 - 0600	-----	-----	-----	10.3	10.6	10.8	-----	-----	-----	MONTHLY VALUE		
0601 - 1200	12.3	12.6	12.8	10.3	10.3	10.3	-----	-----	-----			
1201 - 1800	13.3	13.5	13.8	10.3	10.6	10.8	-----	-----	-----			
1801 - 2400	13.3	13.6	13.8	10.8	10.8	10.8	-----	-----	-----	8.3 ----- 14.8		
DAILY VALUE	12.3	13.2	13.8	10.3	10.6	10.8	-----	-----	-----			

Appendix Table 4-C-24 Cont.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	10.0	10.5	11.0	9.0	9.5	10.0	9.5	9.8	10.0	10.5	10.7	11.0
0601 - 1200	9.5	9.8	10.0	8.5	8.7	9.0	9.5	9.5	9.5	10.0	10.2	10.5
1201 - 1800	10.5	10.8	11.0	9.5	10.2	10.5	10.0	10.2	10.5	11.0	11.5	12.0
1801 - 2400	11.0	11.2	11.5	10.5	10.5	10.5	9.5	10.0	10.5	10.5	11.0	11.5
DAILY VALUE	9.5	10.6	11.5	8.5	9.7	10.5	9.5	9.9	10.5	10.0	10.8	12.0
0001 - 0600	10.0	10.3	10.5	9.5	9.8	10.0	8.5	9.0	9.5	8.5	9.0	9.5
0601 - 1200	10.0	10.3	11.0	9.5	9.7	10.0	8.0	8.7	9.5	8.5	8.7	9.0
1201 - 1800	12.0	12.3	12.5	10.0	10.3	10.5	10.0	10.8	11.5	9.5	10.0	10.5
1801 - 2400	11.5	11.8	12.0	10.0	10.2	10.5	11.0	11.3	11.5	10.0	10.2	10.5
DAILY VALUE	10.0	11.2	12.5	9.5	10.0	10.5	8.0	10.0	11.5	8.5	9.5	10.5
0001 - 0600	10.5	11.0	11.5	9.5	9.7	10.0	10.0	10.2	10.5	9.0	9.3	9.5
0601 - 1200	10.0	10.3	11.0	9.0	9.0	9.0	9.5	10.0	10.5	9.0	9.3	10.0
1201 - 1800	11.5	12.2	13.0	10.0	10.5	11.0	11.5	12.0	12.5	10.5	11.0	11.5
1801 - 2400	12.5	12.8	13.0	10.5	10.8	11.0	11.5	11.7	12.0	10.5	10.8	11.0
DAILY VALUE	10.0	11.6	13.0	9.0	10.0	11.0	9.5	11.0	12.5	9.0	10.1	11.5
0001 - 0600	11.0	11.5	12.0	8.5	9.3	10.0	10.0	10.5	11.0	8.5	9.0	9.5
0601 - 1200	10.5	11.0	11.5	8.5	9.0	9.5	10.0	10.0	10.0	8.0	8.3	9.0
1201 - 1800	12.0	12.8	13.5	11.0	11.8	12.5	11.0	11.7	12.0	9.5	9.7	10.0
1801 - 2400	12.5	12.7	13.0	12.0	12.5	13.0	12.0	12.0	12.0	10.0	10.0	10.0
DAILY VALUE	10.5	12.0	13.5	8.5	10.7	13.0	10.0	11.0	12.0	8.0	9.2	10.0
0001 - 0600	10.0	10.8	11.5	10.5	11.0	11.5	11.0	11.2	11.5	9.0	9.2	9.5
0601 - 1200	10.0	10.5	11.0	10.0	10.7	11.5	11.0	11.2	11.5	8.5	8.5	8.5
1201 - 1800	12.0	12.5	13.0	12.5	13.3	14.0	12.0	12.5	13.0	8.5	8.5	8.5
1801 - 2400	12.5	12.7	13.0	13.5	13.8	14.0	12.5	12.8	13.0	9.0	9.0	9.0
DAILY VALUE	10.0	11.6	13.0	10.0	12.2	14.0	11.0	11.9	13.0	8.5	8.8	9.5
0001 - 0600	10.5	11.3	12.0	11.5	12.3	13.0	11.0	11.5	12.0	8.5	8.5	8.5
0601 - 1200	10.5	10.8	11.5	11.5	11.7	12.0	10.5	10.7	11.0	8.5	8.5	8.5
1201 - 1800	12.0	12.7	13.0	12.5	12.5	12.5	12.0	12.3	12.5	9.0	9.0	9.0
1801 - 2400	13.0	13.2	13.5	12.5	12.5	12.5	12.5	12.5	12.5	8.5	8.7	9.0
DAILY VALUE	10.5	12.0	13.5	11.5	12.2	13.0	10.5	11.7	12.5	8.5	8.7	9.0
0001 - 0600	11.5	12.0	12.5	10.5	11.3	12.0	12.0	12.2	12.5	8.0	8.0	8.0
0601 - 1200	11.5	11.5	11.5	10.5	10.7	11.0	11.5	11.7	12.0	8.0	8.0	8.0
1201 - 1800	12.0	12.0	12.0	11.0	11.0	11.0	12.0	12.3	12.5	9.0	9.0	9.0
1801 - 2400	11.0	11.5	12.0	10.5	10.8	11.0	12.0	12.3	12.5	8.5	8.8	9.0
DAILY VALUE	11.0	11.7	12.5	10.5	11.0	12.0	11.5	12.1	12.5	8.0	8.5	9.0
0001 - 0600	10.0	10.2	10.5	9.0	9.5	10.0	11.0	11.5	12.0	MONTHLY VALUE		
0601 - 1200	9.5	9.7	10.0	8.5	8.7	9.0	11.0	11.0	11.0			
1201 - 1800	10.0	10.3	10.5	10.0	10.7	11.0	11.5	11.8	12.0			
1801 - 2400	10.0	10.3	10.5	10.5	10.8	11.0	11.0	11.3	11.5	8.0 --- 14.0		
DAILY VALUE	9.5	10.1	10.5	8.5	9.9	11.0	11.0	11.4	12.0			

Appendix Table 4-C-24 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	8.0	8.2	8.5	7.0	7.2	7.5	6.0	6.5	7.0	4.0	4.0	4.0
0601 - 1200	7.5	7.8	8.0	7.0	7.0	7.0	5.5	5.8	6.0	3.5	3.7	4.0
1201 - 1800	9.0	9.2	9.5	7.0	7.5	8.0	6.0	6.5	7.0	4.5	4.8	5.0
1801 - 2400	8.0	8.8	9.5	7.0	7.3	7.5	6.5	6.5	6.5	5.0	5.0	5.0
DAILY VALUE	7.5	8.5	9.5	7.0	7.2	8.0	5.5	6.3	7.0	3.5	4.4	5.0
0001 - 0600	7.5	7.7	8.0	6.0	6.5	7.0	6.0	6.2	6.5	4.5	4.7	5.0
0601 - 1200	7.0	7.3	8.0	6.0	6.0	6.0	5.5	5.7	6.0	4.0	4.2	4.5
1201 - 1800	8.5	8.5	8.5	6.5	7.0	7.5	6.0	6.0	6.0	4.5	4.8	5.0
1801 - 2400	8.5	8.5	8.5	7.0	7.2	7.5	6.0	6.0	6.0	4.5	4.8	5.0
DAILY VALUE	7.0	8.0	8.5	6.0	6.7	7.5	5.5	6.0	6.5	4.0	4.6	5.0
0001 - 0600	7.5	7.8	8.0	5.5	6.2	7.0	5.5	5.8	6.0	4.0	4.2	4.5
0601 - 1200	7.5	7.5	7.5	5.5	5.7	6.0	5.5	5.5	5.5	4.0	4.0	4.0
1201 - 1800	8.0	8.0	8.0	6.0	6.2	6.5	6.0	6.0	6.0	4.0	----	4.0
1801 - 2400	7.5	7.7	8.0	5.5	5.8	6.0	6.0	6.0	6.0	----	----	----
DAILY VALUE	7.5	7.7	8.0	5.5	6.0	7.0	5.5	5.8	6.0	4.0	----	4.5
0001 - 0600	6.5	6.8	7.0	4.0	4.5	5.0	5.0	5.5	6.0	----	----	----
0601 - 1200	6.5	6.7	7.0	4.0	4.2	4.5	5.0	5.0	5.0	----	----	----
1201 - 1800	7.0	7.2	7.5	5.0	5.2	5.5	5.5	5.5	5.5	----	----	----
1801 - 2400	7.0	7.2	7.5	5.5	5.5	5.5	5.5	5.5	5.5	----	----	----
DAILY VALUE	6.5	7.0	7.5	4.0	4.8	5.5	5.0	5.4	6.0	----	----	----
0001 - 0600	6.0	6.3	6.5	5.5	5.5	5.5	5.0	5.3	5.5	----	----	----
0601 - 1200	6.0	6.2	6.5	5.0	5.0	5.0	5.0	5.0	5.0	----	----	----
1201 - 1800	7.5	7.8	8.0	5.5	5.7	6.0	5.5	5.8	6.0	----	----	----
1801 - 2400	7.5	7.8	8.0	5.5	5.7	6.0	6.0	6.0	6.0	----	----	----
DAILY VALUE	6.0	7.0	8.0	5.0	5.5	6.0	5.0	5.5	6.0	----	----	----
0001 - 0600	7.0	7.3	7.5	5.5	5.5	5.5	5.0	5.2	5.5	----	----	----
0601 - 1200	6.5	6.7	7.0	5.5	5.7	6.0	4.5	4.7	5.0	----	----	----
1201 - 1800	7.5	7.8	8.0	6.0	6.3	6.5	5.5	5.5	5.5	----	----	----
1801 - 2400	8.0	8.0	8.0	6.5	6.5	6.5	5.0	5.2	5.5	----	----	----
DAILY VALUE	6.5	7.5	8.0	5.5	6.0	6.5	4.5	5.1	5.5	----	----	----
0001 - 0600	7.5	7.7	8.0	6.0	6.0	6.0	4.0	4.5	5.0	----	----	----
0601 - 1200	7.5	7.7	8.0	6.0	6.2	6.5	4.0	4.2	4.5	----	----	----
1201 - 1800	8.0	8.0	8.0	7.5	7.8	8.0	5.0	5.3	5.5	----	----	----
1801 - 2400	8.0	8.0	8.0	8.0	8.0	8.0	4.5	5.0	5.5	----	----	----
DAILY VALUE	7.5	7.8	8.0	6.0	7.0	8.0	4.0	4.7	5.5	----	----	----
0001 - 0600	7.5	7.5	7.5	7.0	7.2	7.5	3.0	3.3	4.0	MONTHLY VALUE		
0601 - 1200	7.0	7.2	7.5	6.0	6.2	6.5	2.0	2.5	3.0			
1201 - 1800	7.5	7.5	7.5	6.5	6.8	7.0	3.5	3.7	4.0			
1801 - 2400	7.5	7.5	7.5	7.0	7.0	7.0	4.0	4.0	4.0			
DAILY VALUE	7.0	7.4	7.5	6.0	6.8	7.5	2.0	3.4	4.0	2.0	6.2	9.5

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Table 4-6-9 Datapod intragravel and surface water temperature (C) continuous record, at Slough 8A-Mouth, RM 125.4, Geocode S30N03W30BCD.
Note, that time periods are six hours and three minutes in duration; accordingly, daily minimum, maximum and mean values can not be directly calculated from this data.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820821 - 820821	0604 - 1206	6.5	6.6	6.7	8.0	8.8	9.8
820821 - 820821	1207 - 1809	6.4	6.5	6.6	7.8	9.3	12.0
820821 - 820822	1810 - 0012	6.5	6.6	6.7	12.1	13.9	14.7
820822 - 820822	0013 - 0615	6.8	6.8	6.8	9.6	11.5	13.9
820822 - 820822	0616 - 1218	6.5	6.7	6.8	8.0	8.9	9.7
820822 - 820822	1219 - 1821	6.5	6.6	6.6	8.2	9.8	12.5
820822 - 820823	1822 - 0024	6.6	6.7	6.8	12.5	14.1	14.8
820823 - 820823	0025 - 0627	6.8	6.8	6.8	10.7	11.7	13.8
820823 - 820823	0628 - 1230	6.6	6.7	6.8	10.0	10.3	10.7
820823 - 820823	1231 - 1833	6.6	6.6	6.7	9.8	10.4	11.5
820823 - 820824	1834 - 0036	6.7	6.7	6.8	11.6	12.3	12.7
820824 - 820824	0037 - 0639	6.7	6.7	6.8	10.0	10.8	12.2
820824 - 820824	0640 - 1242	6.6	6.6	6.7	9.1	9.5	10.0
820824 - 820824	1243 - 1845	6.5	6.6	6.7	9.2	10.2	11.8
820824 - 820825	1846 - 0048	6.6	6.7	6.8	11.9	12.6	12.9
820825 - 820825	0049 - 0651	6.7	6.8	6.8	10.0	11.1	12.5
820825 - 820825	0652 - 1254	6.8	6.8	6.8	9.5	9.8	10.1
820825 - 820825	1255 - 1857	6.7	6.8	6.8	9.4	9.9	11.0
820825 - 820826	1858 - 0100	6.7	6.8	6.8	11.1	12.5	13.2
820826 - 820826	0101 - 0703	6.8	6.8	6.9	9.7	11.0	12.6
820826 - 820826	0704 - 1306	6.8	6.8	6.9	9.3	9.4	9.7
820826 - 820826	1307 - 1909	6.7	6.8	6.8	9.3	10.4	12.6
820826 - 820827	1910 - 0112	6.7	6.9	7.0	12.7	14.1	14.8
820827 - 820827	0113 - 0715	6.9	7.0	7.1	9.7	11.5	14.0
820827 - 820827	0716 - 1318	6.7	6.8	6.9	7.8	8.7	9.7
820827 - 820827	1319 - 1921	6.6	6.7	6.8	7.8	10.2	13.4
820827 - 820828	1922 - 0124	6.6	6.8	6.8	13.0	14.1	14.6

APPENDIX Table 4-C-25 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820828 - 820828	0125 - 0727	6.8	6.8	6.8	9.3	10.8	13.0
820828 - 820828	0728 - 1330	6.6	6.7	6.8	8.2	8.5	9.3
820828 - 820828	1331 - 1933	6.5	6.6	6.6	8.3	9.1	10.8
820828 - 820829	1934 - 0136	6.6	6.7	6.7	10.8	11.5	12.0
820829 - 820829	0137 - 0739	6.6	6.7	6.7	9.0	9.9	11.2
820829 - 820829	0740 - 1342	6.5	6.6	6.7	8.6	8.8	9.0
820829 - 820829	1343 - 1945	6.5	6.5	6.5	8.6	9.3	10.0
820829 - 820830	1946 - 0148	6.5	6.6	6.6	9.8	10.2	10.4
820830 - 820830	0149 - 0751	6.6	6.6	6.6	8.7	9.2	9.9
820830 - 820830	0752 - 1354	6.5	6.5	6.6	8.3	8.5	8.7
820830 - 820830	1355 - 1957	6.5	6.5	6.6	8.3	8.5	8.7
820830 - 820831	1958 - 0200	6.5	6.6	6.6	8.7	8.9	9.0
820831 - 820831	0201 - 0803	6.6	6.6	6.6	8.0	8.3	8.8
820831 - 820831	0804 - 1406	6.5	6.6	6.6	7.7	7.9	8.1
820831 - 820831	1407 - 2009	6.5	6.5	6.6	7.7	8.2	9.0
820831 - 820901	2010 - 0212	6.5	6.6	6.7	8.9	9.4	9.7
820901 - 820901	0213 - 0815	6.6	6.7	6.7	8.3	8.6	8.9
820901 - 820901	0816 - 1418	6.5	6.6	6.6	7.7	8.0	8.3
820901 - 820901	1419 - 2021	6.5	6.6	6.6	8.0	8.9	10.0
820901 - 820902	2022 - 0224	6.6	6.7	6.7	9.8	10.1	10.4
820902 - 820902	0225 - 0827	6.7	6.7	6.8	8.1	8.8	9.8
820902 - 820902	0828 - 1430	6.5	6.6	6.7	7.1	7.5	8.2
820902 - 820902	1431 - 2033	6.4	6.4	6.5	7.1	7.8	9.2
820902 - 820903	2034 - 0236	6.4	6.4	6.4	8.9	9.4	9.9
820903 - 820903	0237 - 0839	6.3	6.4	6.4	8.0	8.6	8.9
820903 - 820903	0840 - 1442	6.3	6.3	6.4	7.3	7.6	8.1
820903 - 820903	1443 - 2045	6.2	6.3	6.3	7.3	7.6	8.3
820903 - 820904	2046 - 0248	6.2	6.3	6.3	7.6	8.2	8.5

Table 4-12 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820904 - 820904	0249 - 0851	6.3	6.3	6.4	6.8	7.3	7.7
820904 - 820904	0852 - 1454	6.2	6.3	6.3	6.4	6.6	6.8
820904 - 820904	1455 - 2057	6.2	6.2	6.2	6.5	7.5	8.5
820904 - 820905	2058 - 0300	6.2	6.2	6.3	7.8	8.5	9.0
820905 - 820905	0301 - 0903	6.2	6.3	6.3	6.7	7.3	7.8
820905 - 820905	0904 - 1506	6.2	6.2	6.3	6.3	6.5	6.8
820905 - 820905	1507 - 2109	6.1	6.2	6.2	6.7	7.7	8.3
820905 - 820906	2110 - 0312	6.1	6.2	6.2	7.8	8.2	8.4
820906 - 820906	0313 - 0915	6.2	6.2	6.3	7.0	7.4	7.8
820906 - 820906	0916 - 1518	6.2	6.2	6.2	6.5	6.8	7.1
820906 - 820906	1519 - 2121	6.2	6.2	6.3	6.9	7.6	7.8
820906 - 820907	2122 - 0324	6.2	6.3	6.3	7.4	7.7	7.9
820907 - 820907	0325 - 0927	6.2	6.3	6.3	7.0	7.3	7.5
820907 - 820907	0928 - 1530	6.2	6.2	6.3	6.8	7.0	7.5
820907 - 820907	1531 - 2133	6.2	6.2	6.3	7.5	8.9	9.8
820907 - 820908	2134 - 0336	6.3	6.3	6.3	8.5	8.9	9.6
820908 - 820908	0337 - 0939	6.3	6.3	6.4	7.9	8.2	8.6
820908 - 820908	0940 - 1542	6.2	6.3	6.3	7.5	7.7	8.1
820908 - 820908	1543 - 2145	6.3	6.3	6.3	8.2	8.7	8.9
820908 - 820909	2146 - 0348	6.3	6.3	6.4	8.0	8.3	8.7
820909 - 820909	0349 - 0951	6.3	6.3	6.3	7.6	7.8	7.9
820909 - 820909	0952 - 1554	6.3	6.3	6.3	7.3	7.4	7.6
820909 - 820909	1555 - 2157	6.3	6.3	6.3	7.6	8.4	9.1
820909 - 820910	2158 - 0400	6.3	6.3	6.4	7.8	8.5	9.1
820910 - 820910	0401 - 1003	6.3	6.3	6.4	7.2	7.4	7.7
820910 - 820910	1004 - 1606	6.2	6.3	6.4	6.9	7.1	7.6
820910 - 820910	1607 - 2209	6.2	6.3	6.3	7.7	8.5	8.9
820910 - 820911	2210 - 0412	6.2	6.3	6.3	7.5	8.2	8.9

APPENDIX Table 4-C-25 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820911 - 820911	0413 - 1015	6.2	6.3	6.3	6.9	7.2	7.5
820911 - 820911	1016 - 1618	6.1	6.2	6.2	6.7	6.8	7.0
820911 - 820911	1619 - 2221	6.1	6.1	6.2	6.9	7.2	7.4
820911 - 820912	2222 - 0424	6.1	6.1	6.2	6.3	6.8	7.2
820912 - 820912	0425 - 1027	6.1	6.1	6.2	5.5	5.8	6.2
820912 - 820912	1028 - 1630	6.0	6.1	6.1	5.3	5.7	7.2
820912 - 820912	1631 - 2233	6.0	6.1	6.1	7.3	8.0	8.5
820912 - 820913	2234 - 0436	6.1	6.1	6.1	6.4	6.8	7.5
820913 - 820913	0437 - 1039	6.1	6.1	6.2	5.9	6.2	6.4
820913 - 820913	1040 - 1642	6.1	6.1	6.1	5.8	5.9	6.1
820913 - 820913	1643 - 2245	6.0	6.1	6.1	5.9	6.4	6.6
820913 - 820914	2246 - 0448	6.0	6.1	6.1	6.3	6.4	6.6
820914 - 820914	0449 - 1051	6.1	6.1	6.1	6.1	6.3	6.4
820914 - 820914	1052 - 1654	6.0	6.0	6.1	6.1	6.2	6.5
820914 - 820914	1655 - 2257	6.0	6.0	6.0	6.5	6.7	6.8
820914 - 820915	2258 - 0500	6.0	6.0	6.0	6.6	6.7	6.8
820915 - 820915	0501 - 1103	6.0	6.0	6.0	6.3	6.5	6.6
820915 - 820915	1104 - 1706	6.0	6.0	6.1	6.3	6.6	7.3
820915 - 820915	1707 - 2309	6.0	6.0	6.1	7.3	8.1	8.4
820915 - 820916	2310 - 0512	6.0	6.1	6.1	7.4	7.6	8.0
820916 - 820916	0513 - 1115	6.0	6.0	6.1	7.3	7.4	7.4
820916 - 820916	1116 - 1718	5.9	5.9	6.0	7.3	7.4	7.8
820916 - 820916	1719 - 2321	6.0	6.0	6.0	7.6	8.0	8.1
820916 - 820917	2322 - 0524	6.0	6.0	6.0	7.0	7.2	7.6
820917 - 820917	0525 - 1127	5.9	6.0	6.0	6.7	6.9	7.0
820917 - 820917	1128 - 1730	5.9	6.0	6.0	6.6	6.7	6.8
820917 - 820917	1731 - 2333	5.9	5.9	6.0	6.7	6.8	6.8
820917 - 820918	2334 - 0536	5.9	6.0	6.0	6.0	6.4	6.7

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Table 4-C-95 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820918 - 820918	0537 - 1139	5.9	6.0	6.0	5.6	5.8	6.0
820918 - 820918	1140 - 1742	5.8	5.9	6.0	5.5	5.8	6.4
820918 - 820918	1743 - 2345	5.9	5.9	5.9	6.4	6.7	6.8
820918 - 820919	2346 - 0548	5.9	5.9	5.9	5.9	6.3	6.6
820919 - 820919	0549 - 1151	5.8	5.9	5.9	5.6	5.7	5.9
820919 - 820919	1152 - 1754	5.8	5.9	5.9	5.6	5.8	6.1
820919 - 820919	1755 - 2357	5.9	5.9	6.0	6.0	6.2	6.3
820919 - 820920	2358 - 0600	5.9	5.9	5.9	5.8	6.0	6.2
820920 - 820920	0601 - 1203	5.9	5.9	6.0	5.6	5.7	5.8
820920 - 820920	1204 - 1806	5.9	5.9	6.0	5.6	5.8	6.3
820920 - 820921	1807 - 0009	5.9	5.9	5.9	6.3	6.4	6.5
820921 - 820921	0010 - 0612	5.9	5.9	5.9	5.6	6.0	6.3
820921 - 820921	0613 - 1215	5.9	5.9	6.0	5.4	5.5	5.6
820921 - 820921	1216 - 1818	5.9	5.9	6.0	5.4	5.6	5.9
820921 - 820922	1819 - 0021	5.9	5.9	5.9	5.9	6.1	6.2
820922 - 820922	0022 - 0624	5.9	5.9	6.0	5.6	5.8	6.1
820922 - 820922	0625 - 1227	5.9	6.0	6.0	5.3	5.4	5.6
820922 - 820922	1228 - 1830	5.9	6.0	6.0	5.3	5.4	5.9
820922 - 820923	1831 - 0033	5.9	6.0	6.0	5.9	6.3	6.5
820923 - 820923	0034 - 0636	6.0	6.0	6.1	4.7	5.2	5.9
820923 - 820923	0637 - 1239	6.0	6.0	6.0	3.9	4.3	4.6
820923 - 820923	1240 - 1842	5.9	6.0	6.0	3.9	4.5	5.6
820923 - 820924	1843 - 0045	5.9	6.0	6.1	5.3	5.7	5.9
820924 - 820924	0046 - 0648	6.0	6.1	6.1	3.8	4.5	5.4
820924 - 820924	0649 - 1251	6.0	6.1	6.1	2.9	3.3	3.8
820924 - 820924	1252 - 1854	6.0	6.0	6.1	2.9	3.7	4.9
820924 - 820925	1855 - 0057	6.0	6.1	6.1	4.9	5.1	5.2

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APPENDIX Table 4-C-25 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820925 - 820925	0058 - 0700	6.1	6.1	6.2	4.2	4.6	5.0
820925 - 820925	0701 - 1303	6.1	6.2	6.2	3.4	3.7	4.2
820925 - 820925	1304 - 1906	6.1	6.2	6.2	3.4	4.2	4.8
820925 - 820926	1907 - 0109	6.2	6.2	6.3	4.7	5.0	5.1
820926 - 820926	0110 - 0712	6.3	6.3	6.3	4.7	4.9	5.0
820926 - 820926	0713 - 1315	6.3	6.3	6.3	4.6	4.6	4.7
820926 - 820926	1316 - 1918	6.3	6.3	6.4	4.6	5.1	5.4
820926 - 820927	1919 - 0121	6.3	6.4	6.4	5.2	5.3	5.4
820927 - 820927	0122 - 0724	6.3	6.4	6.4	4.9	5.0	5.2
820927 - 820927	0725 - 1327	6.4	6.4	6.4	4.8	4.9	4.9
820927 - 820927	1328 - 1930	6.4	6.4	6.4	4.9	5.2	5.9
820927 - 820928	1931 - 0133	6.4	6.4	6.4	5.0	5.6	6.1
820928 - 820928	0134 - 0736	6.4	6.4	6.5	3.5	4.3	4.9
820928 - 820928	0737 - 1339	6.4	6.4	6.5	2.9	3.2	3.5
820928 - 820928	1340 - 1942	6.3	6.4	6.5	3.2	3.8	4.1
820928 - 820929	1943 - 0145	6.4	6.4	6.5	4.1	4.3	4.3
820929 - 820929	0146 - 0748	6.4	6.5	6.5	4.2	4.3	4.3
820929 - 820929	0749 - 1351	6.5	6.5	6.5	4.1	4.2	4.3
820929 - 820929	1352 - 1954	6.4	6.5	6.5	4.2	5.0	5.6
820929 - 820930	1955 - 0157	6.5	6.5	6.6	5.2	5.4	5.6
820930 - 820930	0158 - 0800	6.5	6.5	6.5	4.8	5.0	5.3
820930 - 820930	0801 - 1403	6.5	6.5	6.5	4.5	4.6	4.7
820930 - 820930	1404 - 2006	6.4	6.5	6.5	4.7	5.4	6.0
820930 - 821001	2007 - 0209	6.5	6.5	6.5	5.3	5.6	5.9
821001 - 821001	0210 - 0812	6.5	6.5	6.5	4.7	5.0	5.3
821001 - 821001	0813 - 1415	6.4	6.4	6.5	4.4	4.5	4.7
821001 - 821001	1416 - 2018	6.4	6.5	6.5	4.5	4.9	5.2
821001 - 821002	2019 - 0221	6.4	6.5	6.5	4.4	4.7	5.0

Table 47 - Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821002 - 821002	0222 - 0824	6.4	6.5	6.5	3.8	4.0	4.4
821002 - 821002	0825 - 1427	6.4	6.4	6.5	3.5	3.7	3.9
821002 - 821002	1428 - 2030	6.4	6.5	6.5	4.0	5.0	5.6
821002 - 821003	2031 - 0233	6.4	6.5	6.5	4.2	4.8	5.5
821003 - 821003	0234 - 0836	6.4	6.4	6.5	3.5	3.8	4.2
821003 - 821003	0837 - 1439	6.4	6.4	6.5	3.1	3.3	3.5
821003 - 821003	1440 - 2042	6.4	6.5	6.5	3.4	4.6	5.2
821003 - 821004	2043 - 0245	6.4	6.5	6.5	3.6	4.2	4.8
821004 - 821004	0246 - 0848	6.4	6.4	6.5	2.6	3.0	3.7
821004 - 821004	0849 - 1451	6.4	6.4	6.5	2.1	2.3	2.6
821004 - 821004	1452 - 2054	6.4	6.4	6.5	2.5	4.0	4.6
821004 - 821005	2055 - 0257	6.4	6.4	6.5	2.5	3.1	4.0
821005 - 821005	0258 - 0900	6.3	6.4	6.4	1.9	2.2	2.6
821005 - 821005	0901 - 1503	6.3	6.4	6.4	1.8	2.1	3.7
821005 - 821005	1504 - 2106	6.4	6.4	6.5	2.2	3.4	4.2
821005 - 821006	2107 - 0309	6.4	6.4	6.5	2.1	2.5	3.2
821006 - 821006	0310 - 0912	6.3	6.4	6.4	1.4	1.7	2.2
821006 - 821006	0913 - 1515	6.3	6.4	6.4	1.4	1.8	2.4
821006 - 821006	1516 - 2118	6.3	6.4	6.4	2.4	3.1	3.3
821006 - 821007	2119 - 0321	6.3	6.4	6.4	2.6	2.7	3.0
821007 - 821007	0322 - 0924	6.3	6.3	6.4	2.4	2.5	2.7
821007 - 821007	0925 - 1527	6.3	6.3	6.3	1.7	2.1	2.4
821007 - 821007	1528 - 2130	6.3	6.3	6.3	1.8	2.3	2.7
821007 - 821008	2131 - 0333	6.2	6.3	6.3	2.1	2.3	2.6
821008 - 821008	0334 - 0936	6.2	6.3	6.3	1.5	1.9	2.3
821008 - 821008	0937 - 1539	6.2	6.3	6.3	1.6	2.0	2.7
821008 - 821008	1540 - 2142	6.2	6.2	6.3	2.7	3.1	3.5
821008 - 821009	2143 - 0345	6.2	6.3	6.3	1.2	2.0	2.7

Table 4-1 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821009 - 821009	0346 - 0948	6.2	6.2	6.2	1.3	1.6	1.8
821009 - 821009	0949 - 1551	6.2	6.2	6.2	1.6	2.1	2.9
821009 - 821009	1552 - 2154	6.1	6.2	6.2	3.0	3.5	3.7
821009 - 821010	2155 - 0357	6.1	6.2	6.2	2.7	2.8	3.1
821010 - 821010	0358 - 1000	6.1	6.2	6.2	2.5	2.7	2.9
821010 - 821010	1001 - 1603	6.1	6.1	6.2	2.4	2.7	3.2
821010 - 821010	1604 - 2206	6.1	6.1	6.1	2.6	2.9	3.3
821010 - 821011	2207 - 0409	6.0	6.1	6.1	2.2	2.3	2.6
821011 - 821011	0410 - 1012	6.1	6.1	6.1	1.6	1.9	2.3
821011 - 821011	1013 - 1615	6.0	6.1	6.1	1.6	1.9	2.4
821011 - 821011	1616 - 2218	6.0	6.0	6.1	.7	2.1	2.7
821011 - 821012	2219 - 0421	6.0	6.1	6.1	.8	1.7	2.2
821012 - 821012	0422 - 1024	6.0	6.0	6.0	1.0	1.3	1.6
821012 - 821012	1025 - 1627	6.0	6.0	6.0	1.5	2.2	2.9
821012 - 821012	1628 - 2230	6.0	6.0	6.1	2.1	2.5	2.8
821012 - 821013	2231 - 0433	5.9	6.0	6.1	1.9	2.0	2.2
821013 - 821013	0434 - 1036	5.9	6.0	6.0	.9	1.3	1.9
821013 - 821013	1037 - 1639	5.9	5.9	5.9	1.1	1.6	2.9
821013 - 821013	1640 - 2242	5.9	5.9	5.9	1.5	1.9	2.4
821013 - 821014	2243 - 0445	5.9	5.9	6.0	1.8	2.0	2.2
821014 - 821014	0446 - 1048	5.9	5.9	5.9	1.6	2.0	2.3
821014 - 821014	1049 - 1651	5.8	5.9	5.9	1.5	2.9	4.9
821014 - 821014	1652 - 2254	5.8	5.9	5.9	2.2	3.3	4.8
821014 - 821015	2255 - 0457	5.8	5.9	5.9	1.5	2.0	2.4
821015 - 821015	0458 - 1100	5.8	5.9	5.9	1.3	1.6	1.8
821015 - 821015	1101 - 1703	5.8	5.9	5.9	1.3	1.8	3.0
821015 - 821015	1704 - 2306	5.8	5.8	5.9	1.5	2.4	3.0
821015 - 821016	2307 - 0509	5.7	5.8	5.8	1.3	1.6	1.9

Table 4-25 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821016 - 821016	0510 - 1112	5.7	5.8	5.8	1.3	1.6	1.8
821016 - 821016	1113 - 1715	5.6	5.7	5.7	1.1	1.5	1.8
821016 - 821016	1716 - 2318	5.6	5.7	5.7	1.0	1.3	1.6
821016 - 821017	2319 - 0521	5.6	5.7	5.7	1.1	1.3	1.5
821017 - 821017	0522 - 1124	5.6	5.7	5.7	1.4	1.6	1.8
821017 - 821017	1125 - 1727	5.6	5.6	5.7	1.6	2.2	2.8
821017 - 821017	1728 - 2330	5.6	5.6	5.7	1.7	2.4	2.9
821017 - 821018	2331 - 0533	5.6	5.6	5.6	1.1	1.6	1.8
821018 - 821018	0534 - 1136	5.6	5.6	5.6	1.1	1.3	1.7
821018 - 821018	1137 - 1739	5.5	5.6	5.6	.9	2.2	3.2
821018 - 821018	1740 - 2342	5.5	5.6	5.6	1.9	2.4	3.2
821018 - 821019	2343 - 0545	5.5	5.6	5.6	1.8	2.0	2.2
821019 - 821019	0546 - 1148	5.5	5.5	5.6	1.0	1.7	2.2
821019 - 821019	1149 - 1751	5.5	5.5	5.6	1.1	1.4	1.8
821019 - 821019	1752 - 2354	5.4	5.5	5.5	1.7	1.9	2.1
821019 - 821020	2355 - 0557	5.5	5.5	5.6	1.6	1.8	2.0
821020 - 821020	0558 - 1200	5.4	5.5	5.5	1.5	1.8	2.0
821020 - 821020	1201 - 1803	5.4	5.5	5.5	1.7	2.2	2.6
821020 - 821021	1804 - 0006	5.4	5.5	5.5	1.2	1.8	2.6
821021 - 821021	0007 - 0609	5.3	5.4	5.5	1.2	1.4	1.6
821021 - 821021	0610 - 1212	5.4	5.4	5.5	1.2	1.4	1.5
821021 - 821021	1213 - 1815	5.3	5.4	5.4	1.3	1.7	2.0
821021 - 821022	1816 - 0018	5.3	5.4	5.4	1.3	1.6	1.9
821022 - 821022	0019 - 0621	5.3	5.4	5.4	1.2	1.4	1.6
821022 - 821022	0622 - 1224	5.3	5.4	5.4	1.2	1.4	1.5
821022 - 821022	1225 - 1827	5.3	5.3	5.4	1.3	1.7	2.1
821022 - 821023	1828 - 0030	5.2	5.3	5.4	1.2	1.5	1.9
821023 - 821023	0031 - 0633	5.2	5.3	5.4	1.2	1.3	1.5

Table 4/-C-25 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821023 - 821023	0634 - 1236	5.3	5.3	5.3	1.3	1.5	1.8
821023 - 821023	1237 - 1839	5.2	5.3	5.3	1.6	1.9	2.2
821023 - 821024	1840 - 0042	5.2	5.2	5.3	1.7	1.8	2.1
821024 - 821024	0043 - 0645	5.1	5.2	5.2	1.7	1.8	2.0
821024 - 821024	0646 - 1248	5.1	5.2	5.2	2.0	2.1	2.5
821024 - 821024	1249 - 1851	5.1	5.2	5.2	2.0	2.5	2.8
821024 - 821025	1852 - 0054	5.1	5.1	5.2	2.2	2.3	2.5
821025 - 821025	0055 - 0657	5.0	5.1	5.1	2.2	2.4	2.7
821025 - 821025	0658 - 1300	5.0	5.0	5.1	2.3	2.5	2.8

Table 4 C (C) Datapod intragravel and surface water temperature (C) continuous record, at Slough 8A-Upper, RM 126.4, Geocode S30N03W20CDD.
Note, that time periods are six hours and three minutes in duration; accordingly, daily minimum, maximum and mean values can not be directly calculated from this data.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820821 - 820821	0604 - 1206	4.7	4.7	4.8	5.0	5.2	5.5
820821 - 820821	1207 - 1809	4.7	4.7	4.8	5.0	5.3	6.4
820821 - 820822	1810 - 0012	4.7	4.8	4.8	6.5	8.5	9.4
820822 - 820822	0013 - 0615	4.7	4.8	4.8	5.4	6.0	7.2
820822 - 820822	0616 - 1218	4.7	4.7	4.8	4.9	5.1	5.4
820822 - 820822	1219 - 1821	4.7	4.7	4.8	5.0	5.3	6.3
820822 - 820823	1822 - 0024	4.7	4.8	4.8	6.4	8.1	9.3
820823 - 820823	0025 - 0627	4.7	4.8	4.8	5.8	6.1	6.8
820823 - 820823	0628 - 1230	4.7	4.8	4.8	5.6	5.8	5.9
820823 - 820823	1231 - 1833	4.7	4.8	4.8	5.7	6.3	7.2
820823 - 820824	1834 - 0036	4.7	4.8	4.8	6.2	7.2	7.7
820824 - 820824	0037 - 0639	4.7	4.8	4.8	5.6	5.9	6.3
820824 - 820824	0640 - 1242	4.8	4.8	4.8	5.4	5.6	5.8
820824 - 820824	1243 - 1845	4.8	4.8	4.8	5.5	6.0	7.3
820824 - 820825	1846 - 0048	4.7	4.8	4.8	6.4	7.6	8.5
820825 - 820825	0049 - 0651	4.8	4.8	4.8	5.8	6.0	6.4
820825 - 820825	0652 - 1254	4.8	4.8	4.8	5.6	5.7	5.9
820825 - 820825	1255 - 1857	4.8	4.8	4.8	5.5	6.1	6.8
820825 - 820826	1858 - 0100	4.7	4.8	4.8	6.0	7.3	8.6
820826 - 820826	0101 - 0703	4.8	4.8	4.8	5.6	5.8	6.2
820826 - 820826	0704 - 1306	4.7	4.8	4.8	5.5	5.6	5.7
820826 - 820826	1307 - 1909	4.8	4.8	4.8	5.7	6.4	8.1
820826 - 820827	1910 - 0112	4.8	4.8	4.9	6.1	8.1	9.7
820827 - 820827	0113 - 0715	4.7	4.8	4.9	5.3	5.7	6.3
820827 - 820827	0716 - 1318	4.8	4.8	4.8	4.9	5.1	5.4
820827 - 820827	1319 - 1921	4.7	4.8	4.8	5.0	5.6	7.8
820827 - 820828	1922 - 0124	4.8	4.9	4.9	6.0	7.6	9.2

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Table 4-C-26 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820828 - 820828	0125 - 0727	4.8	4.8	4.9	5.4	5.7	6.2
820828 - 820828	0728 - 1330	4.8	4.8	4.8	5.1	5.3	5.5
820828 - 820828	1331 - 1933	4.8	4.8	4.9	5.4	5.9	6.5
820828 - 820829	1934 - 0136	4.8	4.8	4.9	6.0	7.1	8.2
820829 - 820829	0137 - 0739	4.8	4.8	4.9	5.6	5.8	6.0
820829 - 820829	0740 - 1342	4.8	4.9	4.9	5.6	5.7	5.8
820829 - 820829	1343 - 1945	4.8	4.9	4.9	5.7	6.1	6.5
820829 - 820830	1946 - 0148	4.8	4.9	4.9	6.0	6.3	6.5
820830 - 820830	0149 - 0751	4.9	4.9	4.9	5.7	5.8	6.1
820830 - 820830	0752 - 1354	4.9	4.9	4.9	5.7	5.7	5.8
820830 - 820830	1355 - 1957	4.9	4.9	4.9	5.8	6.0	6.1
820830 - 820831	1958 - 0200	4.9	4.9	4.9	5.8	6.1	6.4
820831 - 820831	0201 - 0803	4.8	4.9	4.9	5.5	5.6	5.8
820831 - 820831	0804 - 1406	4.9	4.9	4.9	5.5	5.6	5.6
820831 - 820831	1407 - 2009	4.8	4.9	4.9	5.6	6.0	6.4
820831 - 820901	2010 - 0212	4.8	4.9	4.9	5.6	6.1	6.7
820901 - 820901	0213 - 0815	4.9	4.9	4.9	5.6	5.7	5.8
820901 - 820901	0816 - 1418	4.8	4.9	4.9	5.7	5.9	6.1
820901 - 820901	1419 - 2021	4.9	4.9	5.0	6.1	6.7	7.1
820901 - 820902	2022 - 0224	4.9	4.9	5.0	6.1	6.6	7.0
820902 - 820902	0225 - 0827	4.8	4.9	4.9	5.9	6.0	6.1
820902 - 820902	0828 - 1430	4.9	4.9	4.9	5.8	5.9	6.2
820902 - 820902	1431 - 2033	4.9	4.9	5.0	6.1	6.6	7.5
820902 - 820903	2034 - 0236	4.9	4.9	5.0	6.2	6.7	7.6
820903 - 820903	0237 - 0839	4.9	4.9	5.0	5.9	6.1	6.3
820903 - 820903	0840 - 1442	4.9	4.9	4.9	6.0	6.1	6.2
820903 - 820903	1443 - 2045	4.9	4.9	5.0	6.1	6.5	6.9
820903 - 820904	2046 - 0248	4.9	5.0	5.0	5.9	6.4	7.0

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Table 26 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820904 - 820904	0249 - 0851	4.9	4.9	4.9	5.6	5.9	6.0
820904 - 820904	0852 - 1454	4.9	4.9	5.0	5.5	5.6	5.8
820904 - 820904	1455 - 2057	4.9	4.9	5.0	5.5	6.5	7.1
820904 - 820905	2058 - 0300	4.9	5.0	5.0	5.6	6.4	7.1
820905 - 820905	0301 - 0903	4.9	4.9	5.0	5.2	5.5	5.9
820905 - 820905	0904 - 1506	4.9	5.0	5.0	5.3	5.5	5.9
820905 - 820905	1507 - 2109	4.9	5.0	5.0	5.8	6.5	6.8
820905 - 820906	2110 - 0312	5.0	5.0	5.0	5.9	6.3	6.7
820906 - 820906	0313 - 0915	5.0	5.0	5.0	5.6	5.8	5.9
820906 - 820906	0916 - 1518	4.9	5.0	5.0	5.4	5.6	6.0
820906 - 820906	1519 - 2121	5.0	5.0	5.0	5.9	6.2	6.4
820906 - 820907	2122 - 0324	5.0	5.0	5.1	5.7	6.0	6.3
820907 - 820907	0325 - 0927	5.0	5.1	5.1	5.5	5.7	5.9
820907 - 820907	0928 - 1530	5.0	5.0	5.1	5.5	5.8	6.2
820907 - 820907	1531 - 2133	5.0	5.1	5.1	6.1	6.7	7.3
820907 - 820908	2134 - 0336	5.0	5.1	5.1	5.7	6.0	6.7
820908 - 820908	0337 - 0939	5.1	5.1	5.1	5.5	5.6	5.8
820908 - 820908	0940 - 1542	5.1	5.1	5.2	5.5	5.7	6.2
820908 - 820908	1543 - 2145	5.1	5.2	5.2	6.1	6.3	6.5
820908 - 820909	2146 - 0348	5.1	5.2	5.2	5.6	5.9	6.3
820909 - 820909	0349 - 0951	5.1	5.1	5.2	5.5	5.6	5.7
820909 - 820909	0952 - 1554	5.1	5.2	5.2	5.5	5.6	5.8
820909 - 820909	1555 - 2157	5.1	5.2	5.2	5.8	6.3	6.7
820909 - 820910	2158 - 0400	5.1	5.2	5.2	5.5	5.9	6.5
820910 - 820910	0401 - 1003	5.2	5.2	5.2	5.4	5.6	5.6
820910 - 820910	1004 - 1606	5.1	5.2	5.2	5.4	5.7	6.1
820910 - 820910	1607 - 2209	5.2	5.2	5.3	6.1	6.4	6.5
820910 - 820911	2210 - 0412	5.2	5.2	5.3	5.4	5.8	6.3

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Table 4/ C-26 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820911 - 820911	0413 - 1015	5.2	5.3	5.3	5.4	5.5	5.6
820911 - 820911	1016 - 1618	5.2	5.3	5.3	5.4	5.6	5.8
820911 - 820911	1619 - 2221	5.2	5.2	5.2	5.7	6.0	6.2
820911 - 820912	2222 - 0424	5.2	5.2	5.3	5.1	5.5	6.0
820912 - 820912	0425 - 1027	5.2	5.3	5.3	5.0	5.1	5.2
820912 - 820912	1028 - 1630	5.2	5.3	5.3	5.0	5.2	5.3
820912 - 820912	1631 - 2233	5.2	5.3	5.3	5.3	6.3	6.8
820912 - 820913	2234 - 0436	5.2	5.3	5.3	5.4	5.6	6.0
820913 - 820913	0437 - 1039	5.2	5.2	5.2	5.3	5.4	5.5
820913 - 820913	1040 - 1642	5.2	5.2	5.3	5.3	5.5	5.7
820913 - 820913	1643 - 2245	5.2	5.3	5.3	5.6	5.8	6.2
820913 - 820914	2246 - 0448	5.2	5.2	5.3	5.5	5.7	5.8
820914 - 820914	0449 - 1051	5.2	5.2	5.2	5.5	5.7	5.8
820914 - 820914	1052 - 1654	5.2	5.2	5.3	5.5	5.8	6.3
820914 - 820914	1655 - 2257	5.3	5.3	5.3	6.0	6.2	6.3
820914 - 820915	2258 - 0500	5.2	5.2	5.3	5.8	6.0	6.2
820915 - 820915	0501 - 1103	5.2	5.2	5.2	5.7	5.9	6.1
820915 - 820915	1104 - 1706	5.2	5.2	5.3	5.8	6.2	6.9
820915 - 820915	1707 - 2309	5.2	5.2	5.3	6.8	7.3	7.7
820915 - 820916	2310 - 0512	5.3	5.3	5.3	6.2	6.7	7.1
820916 - 820916	0513 - 1115	5.2	5.3	5.3	5.9	6.2	6.5
820916 - 820916	1116 - 1718	5.2	5.2	5.3	5.9	6.3	7.3
820916 - 820916	1719 - 2321	5.2	5.3	5.3	7.0	7.7	8.3
820916 - 820917	2322 - 0524	5.2	5.2	5.3	6.1	6.4	7.0
820917 - 820917	0525 - 1127	5.2	5.2	5.3	5.8	6.0	6.2
820917 - 820917	1128 - 1730	5.2	5.2	5.3	5.8	5.9	6.3
820917 - 820917	1731 - 2333	5.2	5.2	5.2	5.9	6.1	6.3
820917 - 820918	2334 - 0536	5.2	5.2	5.2	5.5	5.6	5.9

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Table 4. Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820918 - 820918	0537 - 1139	5.1	5.2	5.2	5.3	5.4	5.5
820918 - 820918	1140 - 1742	5.1	5.1	5.2	5.4	5.9	6.5
820918 - 820918	1743 - 2345	5.1	5.2	5.2	6.1	6.3	6.5
820918 - 820919	2346 - 0548	5.1	5.1	5.2	5.6	5.8	6.1
820919 - 820919	0549 - 1151	5.1	5.1	5.1	5.5	5.5	5.6
820919 - 820919	1152 - 1754	5.1	5.1	5.2	5.5	5.7	6.0
820919 - 820919	1755 - 2357	5.1	5.2	5.2	5.7	5.9	6.0
820919 - 820920	2358 - 0600	5.1	5.1	5.1	5.5	5.6	5.7
820920 - 820920	0601 - 1203	5.1	5.1	5.1	5.5	5.5	5.6
820920 - 820920	1204 - 1806	5.1	5.1	5.1	5.5	5.8	6.1
820920 - 820921	1807 - 0009	5.1	5.2	5.2	5.7	6.0	6.2
820921 - 820921	0010 - 0612	5.1	5.1	5.1	5.5	5.6	5.7
820921 - 820921	0613 - 1215	5.1	5.1	5.1	5.3	5.4	5.5
820921 - 820921	1216 - 1818	5.1	5.1	5.2	5.4	5.7	6.0
820921 - 820922	1819 - 0021	5.1	5.1	5.1	5.6	5.8	6.0
820922 - 820922	0022 - 0624	5.1	5.1	5.1	5.4	5.5	5.6
820922 - 820922	0625 - 1227	5.0	5.1	5.1	5.3	5.4	5.5
820922 - 820922	1228 - 1830	5.0	5.1	5.1	5.4	5.6	6.0
820922 - 820923	1831 - 0033	5.0	5.1	5.1	5.2	5.9	6.5
820923 - 820923	0034 - 0636	5.1	5.1	5.1	4.9	5.1	5.3
820923 - 820923	0637 - 1239	5.1	5.1	5.1	4.7	4.9	5.0
820923 - 820923	1240 - 1842	5.0	5.1	5.1	4.8	5.4	6.8
820923 - 820924	1843 - 0045	5.0	5.1	5.1	5.0	5.9	6.8
820924 - 820924	0046 - 0648	5.0	5.1	5.1	4.6	4.8	5.0
820924 - 820924	0649 - 1251	5.0	5.0	5.1	4.3	4.6	4.7
820924 - 820924	1252 - 1854	5.0	5.0	5.1	4.5	5.4	6.2
820924 - 820925	1855 - 0057	5.0	5.1	5.1	5.2	5.6	6.0

Table 4-C-26 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821002 - 821002	0222 - 0824	4.8	4.8	4.9	4.8	4.9	5.0
821002 - 821002	0825 - 1427	4.8	4.8	4.9	4.8	4.9	5.1
821002 - 821002	1428 - 2030	4.8	4.8	4.9	5.1	5.7	5.9
821002 - 821003	2031 - 0233	4.8	4.8	4.9	4.7	5.1	5.6
821003 - 821003	0234 - 0836	4.8	4.8	4.8	4.8	4.9	4.9
821003 - 821003	0837 - 1439	4.8	4.8	4.8	4.7	4.8	4.9
821003 - 821003	1440 - 2042	4.8	4.8	4.8	4.9	5.4	5.9
821003 - 821004	2043 - 0245	4.7	4.8	4.8	4.7	5.1	5.5
821004 - 821004	0246 - 0848	4.7	4.8	4.8	4.5	4.6	4.8
821004 - 821004	0849 - 1451	4.7	4.8	4.8	4.4	4.6	4.6
821004 - 821004	1452 - 2054	4.7	4.8	4.8	4.6	5.4	6.0
821004 - 821005	2055 - 0257	4.7	4.8	4.8	4.5	4.8	5.3
821005 - 821005	0258 - 0900	4.7	4.8	4.8	4.3	4.5	4.6
821005 - 821005	0901 - 1503	4.7	4.7	4.8	4.3	4.5	4.7
821005 - 821005	1504 - 2106	4.7	4.7	4.8	4.6	5.3	5.8
821005 - 821006	2107 - 0309	4.7	4.7	4.8	4.6	4.7	5.0
821006 - 821006	0310 - 0912	4.7	4.7	4.8	4.3	4.5	4.6
821006 - 821006	0913 - 1515	4.7	4.7	4.8	4.3	4.6	5.0
821006 - 821006	1516 - 2118	4.7	4.7	4.7	5.0	5.2	5.4
821006 - 821007	2119 - 0321	4.6	4.7	4.7	4.7	4.8	5.1
821007 - 821007	0322 - 0924	4.7	4.7	4.7	4.7	4.7	4.7
821007 - 821007	0925 - 1527	4.7	4.7	4.7	4.5	4.6	4.7
821007 - 821007	1528 - 2130	4.7	4.7	4.7	4.6	4.8	5.1
821007 - 821008	2131 - 0333	4.7	4.7	4.7	4.6	4.7	4.8
821008 - 821008	0334 - 0936	4.7	4.7	4.7	4.0	4.4	4.6
821008 - 821008	0937 - 1539	4.7	4.7	4.7	4.1	4.5	5.1
821008 - 821008	1540 - 2142	4.7	4.7	4.7	4.8	5.2	5.5
821008 - 821009	2143 - 0345	4.7	4.7	4.7	3.9	4.3	4.8

Table 4/C-10. Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820925 - 820925	0058 - 0700	5.0	5.0	5.1	4.9	5.0	5.2
820925 - 820925	0701 - 1303	5.0	5.0	5.1	4.7	4.8	4.9
820925 - 820925	1304 - 1906	5.0	5.0	5.1	4.8	5.3	5.8
820925 - 820926	1907 - 0109	5.0	5.0	5.1	5.3	5.5	5.7
820926 - 820926	0110 - 0712	5.0	5.0	5.1	5.2	5.2	5.4
820926 - 820926	0713 - 1315	5.0	5.0	5.0	5.2	5.2	5.3
820926 - 820926	1316 - 1918	5.0	5.0	5.1	5.3	5.5	5.8
820926 - 820927	1919 - 0121	5.0	5.0	5.1	5.3	5.4	5.5
820927 - 820927	0122 - 0724	5.0	5.0	5.0	5.2	5.2	5.3
820927 - 820927	0725 - 1327	5.0	5.0	5.0	5.2	5.2	5.3
820927 - 820927	1328 - 1930	5.0	5.0	5.0	5.3	5.5	5.8
820927 - 820928	1931 - 0133	4.9	5.0	5.0	4.9	5.4	6.0
820928 - 820928	0134 - 0736	4.9	4.9	5.0	4.4	4.8	4.9
820928 - 820928	0737 - 1339	4.9	5.0	5.0	4.6	4.7	4.9
820928 - 820928	1340 - 1942	4.9	4.9	5.0	4.7	5.2	5.5
820928 - 820929	1943 - 0145	4.9	4.9	5.0	5.0	5.2	5.3
820929 - 820929	0146 - 0748	4.9	4.9	5.0	5.0	5.1	5.2
820929 - 820929	0749 - 1351	4.9	4.9	5.0	5.0	5.1	5.2
820929 - 820929	1352 - 1954	4.9	4.9	5.0	5.2	5.6	5.9
820929 - 820930	1955 - 0157	4.9	4.9	5.0	5.2	5.4	5.6
820930 - 820930	0158 - 0800	4.9	4.9	4.9	5.1	5.2	5.3
820930 - 820930	0801 - 1403	4.8	4.9	4.9	5.0	5.1	5.2
820930 - 820930	1404 - 2006	4.8	4.9	4.9	5.2	5.7	6.0
820930 - 821001	2007 - 0209	4.8	4.9	4.9	5.2	5.4	5.7
821001 - 821001	0210 - 0812	4.8	4.9	4.9	5.1	5.1	5.2
821001 - 821001	0813 - 1415	4.9	4.9	4.9	5.0	5.1	5.3
821001 - 821001	1416 - 2018	4.8	4.8	4.9	5.2	5.4	5.6
821001 - 821002	2019 - 0221	4.8	4.9	4.9	4.9	5.1	5.4

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Table 4-C-26 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821009 - 821009	0346 - 0948	4.7	4.7	4.7	4.0	4.3	4.5
821009 - 821009	0949 - 1551	4.7	4.7	4.7	4.4	4.7	5.1
821009 - 821009	1552 - 2154	4.7	4.7	4.7	4.8	5.2	5.4
821009 - 821010	2155 - 0357	4.7	4.7	4.7	4.6	4.6	4.8
821010 - 821010	0358 - 1000	4.7	4.7	4.7	4.5	4.5	4.6
821010 - 821010	1001 - 1603	4.7	4.7	4.7	4.4	4.7	5.0
821010 - 821010	1604 - 2206	4.7	4.7	4.7	4.6	4.8	5.1
821010 - 821011	2207 - 0409	4.6	4.7	4.7	4.3	4.5	4.6
821011 - 821011	0410 - 1012	4.7	4.7	4.7	4.2	4.4	4.5
821011 - 821011	1013 - 1615	4.6	4.7	4.7	4.2	4.4	4.7
821011 - 821011	1616 - 2218	4.6	4.7	4.7	3.5	4.5	4.9
821011 - 821012	2219 - 0421	4.7	4.7	4.7	3.6	4.2	4.6
821012 - 821012	0422 - 1024	4.7	4.7	4.7	3.7	4.0	4.3
821012 - 821012	1025 - 1627	4.6	4.7	4.7	3.9	4.3	4.8
821012 - 821012	1628 - 2230	4.6	4.6	4.7	4.6	4.7	4.8
821012 - 821013	2231 - 0433	4.6	4.7	4.7	4.4	4.5	4.6
821013 - 821013	0434 - 1036	4.6	4.6	4.7	3.6	4.0	4.5
821013 - 821013	1037 - 1639	4.6	4.6	4.7	3.7	4.0	4.3
821013 - 821013	1640 - 2242	4.6	4.6	4.7	4.0	4.3	4.5
821013 - 821014	2243 - 0445	4.6	4.6	4.7	3.8	4.1	4.4
821014 - 821014	0446 - 1048	4.6	4.6	4.7	3.5	4.0	4.3
821014 - 821014	1049 - 1651	4.6	4.6	4.7	3.5	4.0	4.8
821014 - 821014	1652 - 2254	4.6	4.6	4.7	4.1	4.7	5.2
821014 - 821015	2255 - 0457	4.6	4.6	4.7	3.5	3.7	4.0
821015 - 821015	0458 - 1100	4.6	4.6	4.6	3.7	3.8	3.9
821015 - 821015	1101 - 1703	4.6	4.6	4.7	3.7	3.9	4.1
821015 - 821015	1704 - 2306	4.6	4.6	4.7	4.0	4.4	4.8
821015 - 821016	2307 - 0509	4.6	4.6	4.7	3.9	4.0	4.1

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Table 48.6 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821016 - 821016	0510 - 1112	4.6	4.7	4.7	4.0	4.1	4.2
821016 - 821016	1113 - 1715	4.6	4.6	4.6	4.0	4.1	4.3
821016 - 821016	1716 - 2318	4.6	4.6	4.7	4.0	4.1	4.3
821016 - 821017	2319 - 0521	4.6	4.7	4.7	3.9	4.1	4.2
821017 - 821017	0522 - 1124	4.6	4.7	4.7	4.1	4.2	4.3
821017 - 821017	1125 - 1727	4.6	4.6	4.7	4.2	4.6	5.2
821017 - 821017	1728 - 2330	4.6	4.6	4.7	4.0	4.7	5.3
821017 - 821018	2331 - 0533	4.6	4.7	4.7	3.9	4.0	4.1
821018 - 821018	0534 - 1136	4.6	4.6	4.7	3.9	4.0	4.1
821018 - 821018	1137 - 1739	4.6	4.6	4.7	3.9	4.3	4.6
821018 - 821018	1740 - 2342	4.6	4.6	4.6	4.1	4.4	4.8
821018 - 821019	2343 - 0545	4.6	4.6	4.6	4.1	4.2	4.3
821019 - 821019	0546 - 1148	4.6	4.6	4.6	3.8	4.1	4.3
821019 - 821019	1149 - 1751	4.6	4.6	4.6	3.8	4.1	4.4
821019 - 821019	1752 - 2354	4.6	4.6	4.6	4.1	4.3	4.5
821019 - 821020	2355 - 0557	4.6	4.6	4.7	3.9	4.1	4.2
821020 - 821020	0558 - 1200	4.6	4.6	4.7	3.9	4.1	4.2
821020 - 821020	1201 - 1803	4.6	4.6	4.7	4.0	4.4	4.7
821020 - 821021	1804 - 0006	4.6	4.6	4.7	3.9	4.2	4.7
821021 - 821021	0007 - 0609	4.6	4.6	4.6	3.8	3.9	4.0
821021 - 821021	0610 - 1212	4.6	4.6	4.6	3.9	4.0	4.1
821021 - 821021	1213 - 1815	4.6	4.6	4.7	4.0	4.2	4.4
821021 - 821022	1816 - 0018	4.6	4.6	4.7	3.9	4.1	4.4
821022 - 821022	0019 - 0621	4.6	4.6	4.6	3.9	4.0	4.1
821022 - 821022	0622 - 1224	4.6	4.6	4.6	3.8	3.9	4.0
821022 - 821022	1225 - 1827	4.6	4.6	4.6	4.0	4.2	4.4
821022 - 821023	1828 - 0030	4.6	4.6	4.6	3.9	4.1	4.4
821023 - 821023	0031 - 0633	4.6	4.6	4.6	3.8	3.9	4.0

APPENDIX Table 4-C-26 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821023 - 821023	0634 - 1236	4.6	4.6	4.6	3.9	3.9	4.0
821023 - 821023	1237 - 1839	4.6	4.6	4.6	3.9	4.1	4.3
821023 - 821024	1840 - 0042	4.6	4.6	4.6	3.8	4.0	4.3
821024 - 821024	0043 - 0645	4.6	4.6	4.6	3.8	3.9	4.0
821024 - 821024	0646 - 1248	4.6	4.6	4.6	3.7	3.8	4.0
821024 - 821024	1249 - 1851	4.6	4.6	4.6	4.0	4.1	4.3
821024 - 821025	1852 - 0054	4.5	4.6	4.6	3.7	3.9	4.2
821025 - 821025	0055 - 0657	4.5	4.5	4.6	3.7	3.7	3.8
821025 - 821025	0658 - 1300	4.5	4.5	4.6	3.6	3.7	3.8

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Table 4-111 Datapod intragravel and surface water temperature (C) continuous record, at Slough 11, RM 135.7, Geocode S31N02W30ADC.
 Note, that time periods are six hours and three minutes in duration; accordingly, daily minimum, maximum and mean values can not be directly calculated from this data.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820821 - 820821	0604 - 1206	3.2	3.3	3.3	4.8	5.3	5.9
820821 - 820821	1207 - 1809	3.2	3.3	3.3	4.7	5.4	6.9
820821 - 820822	1810 - 0012	3.2	3.3	3.3	6.9	8.4	9.2
820822 - 820822	0013 - 0615	3.2	3.3	3.3	6.4	7.6	8.7
820822 - 820822	0616 - 1218	3.2	3.3	3.3	5.0	5.5	6.3
820822 - 820822	1219 - 1821	3.2	3.3	3.3	4.9	5.7	7.3
820822 - 820823	1822 - 0024	3.2	3.3	3.3	7.3	8.4	9.0
820823 - 820823	0025 - 0627	3.2	3.3	3.3	6.6	7.4	8.4
820823 - 820823	0628 - 1230	3.3	3.3	3.3	6.0	6.3	6.6
820823 - 820823	1231 - 1833	3.2	3.3	3.3	5.9	6.2	6.6
820823 - 820824	1834 - 0036	3.2	3.3	3.3	6.6	7.1	7.3
820824 - 820824	0037 - 0639	3.2	3.3	3.3	5.6	6.1	6.8
820824 - 820824	0640 - 1242	3.3	3.3	3.4	5.6	5.6	5.8
820824 - 820824	1243 - 1845	3.2	3.3	3.3	5.5	6.0	7.0
820824 - 820825	1846 - 0048	3.2	3.3	3.3	6.4	7.5	8.0
820825 - 820825	0049 - 0651	3.2	3.3	3.5	4.3	6.1	7.3
820825 - 820825	0652 - 1254	3.3	3.3	3.3	5.0	5.7	6.0
820825 - 820825	1255 - 1857	3.3	3.4	3.5	5.1	6.2	7.2
820825 - 820826	1858 - 0100	3.5	3.5	3.7	7.0	8.0	8.4
820826 - 820826	0101 - 0703	3.6	3.7	3.7	6.2	7.0	7.7
820826 - 820826	0704 - 1306	3.6	3.6	3.7	5.7	6.0	6.3
820826 - 820826	1307 - 1909	3.6	3.7	4.4	3.6	5.5	6.7
820826 - 820827	1910 - 0112	3.6	3.6	3.7	3.5	3.6	4.0
820827 - 820827	0113 - 0715	3.5	3.5	3.6	3.4	3.5	3.8
820827 - 820827	0716 - 1318	3.5	3.5	3.5	3.4	3.5	3.5
820827 - 820827	1319 - 1921	3.4	3.5	3.5	3.4	3.4	3.5
820827 - 820828	1922 - 0124	3.4	3.5	3.5	3.4	3.5	3.5

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Appendix Table 4-C.27 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820828 - 820828	0125 - 0727	3.5	3.5	3.5	3.4	3.4	3.5
820828 - 820828	0728 - 1330	3.4	3.5	3.5	3.4	3.5	3.5
820828 - 820828	1331 - 1933	3.4	3.5	3.5	3.4	3.4	3.5
820828 - 820829	1934 - 0136	3.4	3.5	3.5	3.4	3.4	3.5
820829 - 820829	0137 - 0739	3.5	3.5	3.5	3.4	3.5	3.5
820829 - 820829	0740 - 1342	3.5	3.5	3.5	3.4	3.4	3.5
820829 - 820829	1343 - 1945	3.5	3.5	3.5	3.4	3.4	3.5
820829 - 820830	1946 - 0148	3.5	3.5	3.5	3.4	3.4	3.5
820830 - 820830	0149 - 0751	3.4	3.5	3.5	3.4	3.4	3.5
820830 - 820830	0752 - 1354	3.5	3.5	3.5	3.4	3.4	3.4
820830 - 820830	1355 - 1957	3.4	3.5	3.5	3.3	3.4	3.4
820830 - 820831	1958 - 0200	3.4	3.5	3.5	3.3	3.4	3.4
820831 - 820831	0201 - 0803	3.4	3.4	3.4	3.3	3.4	3.4
820831 - 820831	0804 - 1406	3.4	3.4	3.4	3.4	3.4	3.4
820831 - 820831	1407 - 2009	3.4	3.4	3.5	3.3	3.4	3.4
820831 - 820901	2010 - 0212	3.4	3.5	3.5	3.3	3.4	3.4
820901 - 820901	0213 - 0815	3.4	3.4	3.4	3.3	3.4	3.4
820901 - 820901	0816 - 1418	3.4	3.4	3.4	3.3	3.4	3.4
820901 - 820901	1419 - 2021	3.4	3.4	3.5	3.3	3.4	3.4
820901 - 820902	2022 - 0224	3.4	3.5	3.5	3.3	3.4	3.5
820902 - 820902	0225 - 0827	3.4	3.5	3.5	3.4	3.4	3.5
820902 - 820902	0828 - 1430	3.4	3.5	3.5	3.4	3.4	3.4
820902 - 820902	1431 - 2033	3.4	3.4	3.5	3.3	3.4	3.4
820902 - 820903	2034 - 0236	3.4	3.5	3.5	3.4	3.4	3.5
820903 - 820903	0237 - 0839	3.4	3.5	3.5	3.4	3.4	3.5
820903 - 820903	0840 - 1442	3.4	3.4	3.5	3.4	3.4	3.4
820903 - 820903	1443 - 2045	3.4	3.4	3.5	3.3	3.4	3.4
820903 - 820904	2046 - 0248	3.4	3.5	3.5	3.3	3.4	3.4

Table 7 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820904 - 820904	0249 - 0851	3.4	3.5	3.5	3.3	3.4	3.4
820904 - 820904	0852 - 1454	3.4	3.4	3.5	3.3	3.3	3.4
820904 - 820904	1455 - 2057	3.3	3.4	3.5	3.3	3.3	3.4
820904 - 820905	2058 - 0300	3.4	3.4	3.5	3.3	3.4	3.4
820905 - 820905	0301 - 0903	3.4	3.4	3.5	3.3	3.4	3.4
820905 - 820905	0904 - 1506	3.3	3.4	3.4	3.3	3.3	3.4
820905 - 820905	1507 - 2109	3.4	3.4	3.4	3.3	3.3	3.4
820905 - 820906	2110 - 0312	3.4	3.4	3.5	3.3	3.4	3.4
820906 - 820906	0313 - 0915	3.4	3.4	3.5	3.3	3.4	3.4
820906 - 820906	0916 - 1518	3.4	3.4	3.5	3.3	3.4	3.4
820906 - 820906	1519 - 2121	3.4	3.4	3.4	3.3	3.4	3.4
820906 - 820907	2122 - 0324	3.4	3.4	3.5	3.3	3.4	3.4
820907 - 820907	0325 - 0927	3.4	3.4	3.4	3.3	3.3	3.4
820907 - 820907	0928 - 1530	3.3	3.4	3.4	3.3	3.3	3.4
820907 - 820907	1531 - 2133	3.4	3.4	3.4	3.3	3.3	3.4
820907 - 820908	2134 - 0336	3.4	3.4	3.5	3.3	3.4	3.4
820908 - 820908	0337 - 0939	3.4	3.4	3.5	3.3	3.4	3.4
820908 - 820908	0940 - 1542	3.4	3.4	3.5	3.3	3.4	3.4
820908 - 820908	1543 - 2145	3.4	3.4	3.5	3.3	3.4	3.4
820908 - 820909	2146 - 0348	3.4	3.4	3.5	3.3	3.4	3.4
820909 - 820909	0349 - 0951	3.4	3.4	3.5	3.3	3.4	3.4
820909 - 820909	0952 - 1554	3.3	3.4	3.4	3.3	3.4	3.4
820909 - 820909	1555 - 2157	3.3	3.4	3.4	3.3	3.3	3.4
820909 - 820910	2158 - 0400	3.4	3.4	3.4	3.3	3.3	3.4
820910 - 820910	0401 - 1003	3.4	3.4	3.4	3.3	3.3	3.4
820910 - 820910	1004 - 1606	3.3	3.4	3.4	3.3	3.3	3.3
820910 - 820910	1607 - 2209	3.3	3.4	3.4	3.3	3.3	3.4
820910 - 820911	2210 - 0412	3.3	3.4	3.4	3.3	3.3	3.4

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Table 4-C-27 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820911 - 820911	0413 - 1015	3.4	3.4	3.4	3.3	3.3	3.3
820911 - 820911	1016 - 1618	3.3	3.4	3.4	3.3	3.3	3.3
820911 - 820911	1619 - 2221	3.3	3.4	3.4	3.3	3.3	3.3
820911 - 820912	2222 - 0424	3.3	3.4	3.4	3.2	3.3	3.3
820912 - 820912	0425 - 1027	3.3	3.4	3.4	3.3	3.3	3.3
820912 - 820912	1028 - 1630	3.3	3.4	3.4	3.2	3.3	3.3
820912 - 820912	1631 - 2233	3.3	3.3	3.4	3.2	3.3	3.3
820912 - 820913	2234 - 0436	3.3	3.4	3.4	3.3	3.3	3.4
820913 - 820913	0437 - 1039	3.3	3.3	3.4	3.3	3.3	3.3
820913 - 820913	1040 - 1642	3.3	3.3	3.4	3.2	3.2	3.3
820913 - 820913	1643 - 2245	3.3	3.3	3.4	3.2	3.3	3.3
820913 - 820914	2246 - 0448	3.3	3.4	3.4	3.2	3.3	3.3
820914 - 820914	0449 - 1051	3.3	3.4	3.4	3.3	3.3	3.3
820914 - 820914	1052 - 1654	3.3	3.3	3.4	3.2	3.3	3.3
820914 - 820914	1655 - 2257	3.3	3.3	3.4	3.2	3.3	3.3
820914 - 820915	2258 - 0500	3.3	3.4	3.4	3.2	3.3	3.3
820915 - 820915	0501 - 1103	3.3	3.4	3.4	3.3	3.3	3.3
820915 - 820915	1104 - 1706	3.3	3.3	3.4	3.2	3.3	3.3
820915 - 820915	1707 - 2309	3.3	3.4	3.4	3.3	3.3	3.3
820915 - 820916	2310 - 0512	3.3	3.4	3.4	3.2	3.3	3.4
820916 - 820916	0513 - 1115	3.3	3.4	3.4	3.2	3.3	3.4
820916 - 820916	1116 - 1718	3.3	3.4	3.4	3.2	3.3	3.3
820916 - 820916	1719 - 2321	3.3	3.3	3.4	3.2	3.3	3.3
820916 - 820917	2322 - 0524	3.3	3.4	3.4	3.3	3.3	3.4
820917 - 820917	0525 - 1127	3.3	3.3	3.4	3.2	3.3	3.3
820917 - 820917	1128 - 1730	3.3	3.3	3.3	3.2	3.3	3.3
820917 - 820917	1731 - 2333	3.3	3.3	3.4	3.2	3.3	3.3
820917 - 820918	2334 - 0536	3.3	3.3	3.4	3.2	3.2	3.3

Table 4.2.2 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820918 - 820918	0537 - 1139	3.3	3.3	3.3	3.3	3.3	3.3
820918 - 820918	1140 - 1742	3.2	3.3	3.3	3.2	3.2	3.3
820918 - 820918	1743 - 2345	3.3	3.3	3.4	3.2	3.2	3.3
820918 - 820919	2346 - 0548	3.3	3.3	3.3	3.2	3.2	3.2
820919 - 820919	0549 - 1151	3.3	3.3	3.3	3.2	3.2	3.2
820919 - 820919	1152 - 1754	3.3	3.3	3.3	3.2	3.2	3.2
820919 - 820919	1755 - 2357	3.3	3.3	3.3	3.2	3.2	3.2
820919 - 820920	2358 - 0600	3.3	3.3	3.3	3.2	3.2	3.2
820920 - 820920	0601 - 1203	3.3	3.3	3.3	3.2	3.2	3.3
820920 - 820920	1204 - 1806	3.3	3.3	3.3	3.2	3.2	3.2
820920 - 820921	1807 - 0009	3.3	3.3	3.4	3.2	3.2	3.3
820921 - 820921	0010 - 0612	3.3	3.3	3.3	3.2	3.2	3.2
820921 - 820921	0613 - 1215	3.3	3.3	3.3	3.2	3.2	3.3
820921 - 820921	1216 - 1818	3.3	3.3	3.4	3.2	3.2	3.3
820921 - 820922	1819 - 0021	3.3	3.3	3.3	3.2	3.2	3.2
820922 - 820922	0022 - 0624	3.3	3.3	3.3	3.2	3.2	3.3
820922 - 820922	0625 - 1227	3.3	3.3	3.4	3.2	3.2	3.3
820922 - 820922	1228 - 1830	3.3	3.3	3.3	3.2	3.2	3.3
820922 - 820923	1831 - 0033	3.2	3.3	3.4	3.2	3.2	3.3
820923 - 820923	0034 - 0636	3.3	3.3	3.4	3.2	3.2	3.3
820923 - 820923	0637 - 1239	3.3	3.3	3.3	3.2	3.2	3.2
820923 - 820923	1240 - 1842	3.2	3.3	3.3	3.2	3.2	3.3
820923 - 820924	1843 - 0045	3.3	3.3	3.4	3.2	3.2	3.3
820924 - 820924	0046 - 0648	3.3	3.3	3.4	3.2	3.2	3.3
820924 - 820924	0649 - 1251	3.3	3.3	3.3	3.2	3.2	3.2
820924 - 820924	1252 - 1854	3.2	3.3	3.3	3.1	3.2	3.3
820924 - 820925	1855 - 0057	3.2	3.3	3.3	3.2	3.2	3.3

1/8/17.0018 Table 4-C-27 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820925 - 820925	0058 - 0700	3.2	3.3	3.3	3.1	3.2	3.2
820925 - 820925	0701 - 1303	3.2	3.3	3.3	3.1	3.2	3.2
820925 - 820925	1304 - 1906	3.2	3.3	3.3	3.1	3.2	3.2
820925 - 820926	1907 - 0109	3.2	3.3	3.3	3.1	3.2	3.2
820926 - 820926	0110 - 0712	3.2	3.3	3.3	3.2	3.2	3.2
820926 - 820926	0713 - 1315	3.3	3.3	3.3	3.2	3.2	3.2
820926 - 820926	1316 - 1918	3.2	3.3	3.3	3.1	3.2	3.2
820926 - 820927	1919 - 0121	3.2	3.3	3.3	3.1	3.2	3.2
820927 - 820927	0122 - 0724	3.3	3.3	3.3	3.2	3.2	3.2
820927 - 820927	0725 - 1327	3.3	3.3	3.3	3.2	3.2	3.2
820927 - 820927	1328 - 1930	3.2	3.3	3.3	3.1	3.2	3.2
820927 - 820928	1931 - 0133	3.2	3.3	3.3	3.2	3.2	3.3
820928 - 820928	0134 - 0736	3.2	3.3	3.3	3.1	3.2	3.2
820928 - 820928	0737 - 1339	3.2	3.3	3.3	3.2	3.2	3.2
820928 - 820928	1340 - 1942	3.2	3.3	3.3	3.1	3.2	3.2
820928 - 820929	1943 - 0145	3.2	3.3	3.3	3.1	3.2	3.2
820929 - 820929	0146 - 0748	3.3	3.3	3.3	3.2	3.2	3.2
820929 - 820929	0749 - 1351	3.3	3.3	3.3	3.2	3.2	3.2
820929 - 820929	1352 - 1954	3.2	3.3	3.3	3.1	3.2	3.2
820929 - 820930	1955 - 0157	3.2	3.3	3.3	3.1	3.2	3.2
820930 - 820930	0158 - 0800	3.3	3.3	3.3	3.2	3.2	3.2
820930 - 820930	0801 - 1403	3.3	3.3	3.3	3.2	3.2	3.2
820930 - 820930	1404 - 2006	3.2	3.3	3.3	3.1	3.2	3.3
820930 - 821001	2007 - 0209	3.2	3.3	3.4	3.1	3.2	3.3
821001 - 821001	0210 - 0812	3.3	3.3	3.4	3.2	3.2	3.3
821001 - 821001	0813 - 1415	3.3	3.3	3.3	3.2	3.2	3.2
821001 - 821001	1416 - 2018	3.2	3.3	3.3	3.2	3.2	3.2
821001 - 821002	2019 - 0221	3.2	3.3	3.4	3.1	3.2	3.3

Table 4.2 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821002 - 821002	0222 - 0824	3.3	3.3	3.3	3.2	3.2	3.2
821002 - 821002	0825 - 1427	3.2	3.3	3.3	3.1	3.2	3.2
821002 - 821002	1428 - 2030	3.2	3.3	3.3	3.1	3.2	3.2
821002 - 821003	2031 - 0233	3.2	3.3	3.3	3.1	3.2	3.2
821003 - 821003	0234 - 0836	3.2	3.3	3.3	3.1	3.2	3.2
821003 - 821003	0837 - 1439	3.2	3.3	3.3	3.1	3.2	3.2
821003 - 821003	1440 - 2042	3.2	3.3	3.3	3.2	3.2	3.2
821003 - 821004	2043 - 0245	3.2	3.3	3.3	3.2	3.2	3.3
821004 - 821004	0246 - 0848	3.2	3.3	3.3	3.1	3.2	3.2
821004 - 821004	0849 - 1451	3.2	3.3	3.3	3.1	3.2	3.2
821004 - 821004	1452 - 2054	3.2	3.3	3.3	3.1	3.2	3.2
821004 - 821005	2055 - 0257	3.2	3.3	3.3	3.1	3.2	3.2
821005 - 821005	0258 - 0900	3.2	3.3	3.3	3.1	3.2	3.2
821005 - 821005	0901 - 1503	3.2	3.3	3.3	3.1	3.2	3.2
821005 - 821005	1504 - 2106	3.2	3.2	3.3	3.1	3.2	3.2
821005 - 821006	2107 - 0309	3.2	3.2	3.3	3.1	3.1	3.2
821006 - 821006	0310 - 0912	3.2	3.2	3.2	3.1	3.1	3.2
821006 - 821006	0913 - 1515	3.2	3.2	3.3	3.1	3.1	3.2
821006 - 821006	1516 - 2118	3.2	3.2	3.3	3.1	3.1	3.1
821006 - 821007	2119 - 0321	3.2	3.3	3.3	3.1	3.1	3.2
821007 - 821007	0322 - 0924	3.2	3.2	3.2	3.1	3.1	3.1
821007 - 821007	0925 - 1527	3.2	3.2	3.3	3.1	3.1	3.1
821007 - 821007	1528 - 2130	3.2	3.2	3.2	3.1	3.1	3.2
821007 - 821008	2131 - 0333	3.2	3.2	3.3	3.1	3.1	3.1
821008 - 821008	0334 - 0936	3.2	3.2	3.2	3.1	3.1	3.1
821008 - 821008	0937 - 1539	3.1	3.2	3.2	3.1	3.1	3.2
821008 - 821008	1540 - 2142	3.2	3.2	3.3	3.1	3.1	3.1
821008 - 821009	2143 - 0345	3.2	3.2	3.3	3.1	3.1	3.2

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APPENDIX Table 4.5-27 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821009 - 821009	0346 - 0948	3.2	3.2	3.2	3.1	3.1	3.1
821009 - 821009	0949 - 1551	3.1	3.2	3.2	3.1	3.1	3.2
821009 - 821009	1552 - 2154	3.2	3.2	3.3	3.1	3.1	3.1
821009 - 821010	2155 - 0357	3.2	3.2	3.3	3.1	3.1	3.2
821010 - 821010	0358 - 1000	3.2	3.2	3.2	3.1	3.1	3.1
821010 - 821010	1001 - 1603	3.2	3.2	3.3	3.1	3.1	3.1
821010 - 821010	1604 - 2206	3.2	3.2	3.3	3.1	3.1	3.2
821010 - 821011	2207 - 0409	3.2	3.2	3.3	3.1	3.1	3.2
821011 - 821011	0410 - 1012	3.2	3.2	3.3	3.1	3.1	3.1
821011 - 821011	1013 - 1615	3.2	3.2	3.3	3.1	3.1	3.1
821011 - 821011	1616 - 2218	3.2	3.2	3.3	3.1	3.1	3.1
821011 - 821012	2219 - 0421	3.2	3.2	3.2	3.1	3.1	3.1
821012 - 821012	0422 - 1024	3.2	3.2	3.2	3.1	3.1	3.1
821012 - 821012	1025 - 1627	3.1	3.2	3.2	3.1	3.1	3.1
821012 - 821012	1628 - 2230	3.1	3.2	3.2	3.1	3.1	3.1
821012 - 821013	2231 - 0433	3.2	3.2	3.2	3.1	3.1	3.1
821013 - 821013	0434 - 1036	3.2	3.2	3.2	3.1	3.1	3.1
821013 - 821013	1037 - 1639	3.2	3.2	3.2	3.1	3.1	3.1
821013 - 821013	1640 - 2242	3.2	3.2	3.2	3.1	3.1	3.1
821013 - 821014	2243 - 0445	3.2	3.2	3.2	3.1	3.1	3.1
821014 - 821014	0446 - 1048	3.2	3.2	3.3	3.0	3.1	3.1
821014 - 821014	1049 - 1651	3.1	3.2	3.3	3.0	3.1	3.1
821014 - 821014	1652 - 2254	3.1	3.2	3.2	3.1	3.1	3.2
821014 - 821015	2255 - 0457	3.2	3.2	3.3	3.0	3.1	3.2
821015 - 821015	0458 - 1100	3.1	3.2	3.3	3.0	3.1	3.1
821015 - 821015	1101 - 1703	3.1	3.2	3.2	3.0	3.1	3.1
821015 - 821015	1704 - 2306	3.1	3.2	3.3	3.0	3.1	3.1
821015 - 821016	2307 - 0509	3.2	3.2	3.2	3.0	3.1	3.1

Table 4-C-17 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821016 - 821016	0510 - 1112	3.2	3.2	3.2	3.0	3.1	3.1
821016 - 821016	1113 - 1715	3.2	3.2	3.2	3.0	3.1	3.1
821016 - 821016	1716 - 2318	3.2	3.2	3.2	3.0	3.1	3.1
821016 - 821017	2319 - 0521	3.2	3.2	3.2	3.0	3.0	3.1
821017 - 821017	0522 - 1124	3.2	3.2	3.2	3.0	3.1	3.1
821017 - 821017	1125 - 1727	3.1	3.2	3.2	3.0	3.1	3.1
821017 - 821017	1728 - 2330	3.1	3.2	3.2	3.0	3.1	3.1
821017 - 821018	2331 - 0533	3.2	3.2	3.3	3.0	3.1	3.1
821018 - 821018	0534 - 1136	3.2	3.2	3.2	3.0	3.1	3.1
821018 - 821018	1137 - 1739	3.1	3.2	3.2	3.0	3.1	3.1
821018 - 821018	1740 - 2342	3.1	3.2	3.2	3.0	3.1	3.1
821018 - 821019	2343 - 0545	3.2	3.2	3.2	3.1	3.1	3.1
821019 - 821019	0546 - 1148	3.2	3.2	3.2	3.1	3.1	3.1
821019 - 821019	1149 - 1751	3.2	3.2	3.2	3.0	3.1	3.1
821019 - 821019	1752 - 2354	3.1	3.2	3.2	3.0	3.1	3.1
821019 - 821020	2355 - 0557	3.2	3.2	3.2	3.0	3.1	3.1
821020 - 821020	0558 - 1200	3.2	3.2	3.2	3.0	3.1	3.1
821020 - 821020	1201 - 1803	3.1	3.2	3.2	3.0	3.1	3.1
821020 - 821021	1804 - 0006	3.1	3.2	3.2	3.0	3.1	3.1
821021 - 821021	0007 - 0609	3.2	3.2	3.2	3.0	3.1	3.1
821021 - 821021	0610 - 1212	3.1	3.2	3.2	3.0	3.1	3.1
821021 - 821021	1213 - 1815	3.1	3.2	3.2	3.0	3.1	3.1
821021 - 821022	1816 - 0018	3.1	3.2	3.2	3.0	3.0	3.1
821022 - 821022	0019 - 0621	3.1	3.1	3.2	3.0	3.0	3.0
821022 - 821022	0622 - 1224	3.1	3.1	3.2	2.9	3.0	3.0
821022 - 821022	1225 - 1827	3.1	3.1	3.2	2.9	3.0	3.0
821022 - 821023	1828 - 0030	3.1	3.1	3.2	2.9	3.0	3.0
821023 - 821023	0031 - 0633	3.1	3.1	3.2	2.9	3.0	3.0

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APP. DIX Table 4-C-27 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821023 - 821023	0634 - 1236	3.1	3.1	3.2	3.0	3.0	3.0
821023 - 821023	1237 - 1839	3.1	3.1	3.2	2.9	3.0	3.0
821023 - 821024	1840 - 0042	3.1	3.1	3.2	2.9	3.0	3.0
821024 - 821024	0043 - 0645	3.1	3.1	3.2	3.0	3.0	3.0
821024 - 821024	0646 - 1248	3.1	3.1	3.2	3.0	3.0	3.0
821024 - 821024	1249 - 1851	3.1	3.1	3.2	2.9	3.0	3.1
821024 - 821025	1852 - 0054	3.1	3.1	3.2	2.9	3.0	3.1
821025 - 821025	0055 - 0657	3.1	3.2	3.2	3.0	3.0	3.0
821025 - 821025	0658 - 1300	3.1	3.1	3.2	2.9	3.0	3.0
821025 - 821025	1301 - 1903	3.1	3.1	3.2	2.9	3.0	3.1
821025 - 821026	1904 - 0106	3.1	3.1	3.2	2.9	3.0	3.0
821026 - 821026	0107 - 0709	3.1	3.1	3.2	2.9	3.0	3.0
821026 - 821026	0710 - 1312	3.1	3.1	3.1	3.0	3.0	3.0
821026 - 821026	1313 - 1915	3.1	3.1	3.2	2.9	3.0	3.0
821026 - 821027	1916 - 0118	3.1	3.1	3.2	2.9	3.0	3.0
821027 - 821027	0119 - 0721	3.1	3.1	3.2	2.9	3.0	3.0
821027 - 821027	0722 - 1324	3.1	3.1	3.1	2.9	3.0	3.0

Table 4-6. Datapod intragravel and surface water temperature (C) continuous record, at Slough 16B, RM 138.0, Geocode S31N02W17AAA.
Note, that time periods are six hours and three minutes in duration; accordingly, daily minimum, maximum and mean values can not be directly calculated from this data.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820821 - 820821	0604 - 1206	5.0	5.4	5.7	4.4	4.8	5.3
820821 - 820821	1207 - 1809	4.8	5.0	5.4	4.3	5.1	6.4
820821 - 820822	1810 - 0012	5.4	6.2	6.7	6.3	7.9	9.2
820822 - 820822	0013 - 0615	5.6	6.2	6.6	5.1	6.2	7.4
820822 - 820822	0616 - 1218	4.8	5.2	5.6	4.2	4.6	5.1
820822 - 820822	1219 - 1821	4.7	4.9	5.5	4.2	5.0	6.4
820822 - 820823	1822 - 0024	5.5	6.3	6.9	6.2	7.7	9.0
820823 - 820823	0025 - 0627	5.9	6.3	6.7	5.8	6.4	7.4
820823 - 820823	0628 - 1230	5.6	5.7	5.9	5.5	5.7	5.9
820823 - 820823	1231 - 1833	5.6	5.9	6.4	5.6	6.3	7.1
820823 - 820824	1834 - 0036	6.3	6.7	6.8	6.9	7.3	8.0
820824 - 820824	0037 - 0639	5.7	6.1	6.7	5.5	6.0	6.8
820824 - 820824	0640 - 1242	5.4	5.5	5.7	5.1	5.3	5.5
820824 - 820824	1243 - 1845	5.4	5.9	6.6	5.2	6.2	7.6
820824 - 820825	1846 - 0048	6.6	7.1	7.4	7.1	7.8	8.7
820825 - 820825	0049 - 0651	6.1	6.6	7.0	5.8	6.4	7.3
820825 - 820825	0652 - 1254	5.9	6.0	6.2	5.5	5.8	6.0
820825 - 820825	1255 - 1857	5.9	6.3	6.8	5.7	6.6	7.8
820825 - 820826	1858 - 0100	6.8	7.1	7.5	6.9	7.9	9.0
820826 - 820826	0101 - 0703	6.2	6.6	7.1	5.8	6.4	7.1
820826 - 820826	0704 - 1306	5.9	6.0	6.2	5.5	5.7	6.0
820826 - 820826	1307 - 1909	5.9	6.3	6.8	5.6	6.8	8.0
820826 - 820827	1910 - 0112	6.8	7.2	7.6	7.2	8.1	9.1
820827 - 820827	0113 - 0715	5.6	6.4	7.1	4.8	5.8	7.2
820827 - 820827	0716 - 1318	4.6	5.1	5.6	3.9	4.3	4.8
820827 - 820827	1319 - 1921	4.6	5.2	6.1	4.0	5.3	6.9
820827 - 820828	1922 - 0124	6.1	6.8	7.4	6.3	7.5	8.7

Appendix Table 4-10 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820828 - 820828	0125 - 0727	5.0	5.6	6.5	4.6	5.3	6.4
820828 - 820828	0728 - 1330	4.7	4.9	5.1	4.5	4.6	4.9
820828 - 820828	1331 - 1933	4.9	5.4	6.2	4.8	5.6	6.7
820828 - 820829	1934 - 0136	6.2	6.6	7.0	6.3	7.0	7.8
820829 - 820829	0137 - 0739	5.5	5.9	6.5	5.2	5.8	6.6
820829 - 820829	0740 - 1342	5.3	5.4	5.5	5.0	5.2	5.4
820829 - 820829	1343 - 1945	5.4	5.9	6.6	5.4	6.2	7.0
820829 - 820830	1946 - 0148	6.2	6.5	6.7	6.0	6.6	7.1
820830 - 820830	0149 - 0751	5.6	5.8	6.2	5.4	5.7	6.2
820830 - 820830	0752 - 1354	5.5	5.6	5.6	5.3	5.5	5.7
820830 - 820830	1355 - 1957	5.5	5.8	6.1	5.5	6.0	6.5
820830 - 820831	1958 - 0200	6.0	6.1	6.2	5.9	6.4	6.7
820831 - 820831	0201 - 0803	5.7	5.9	6.0	5.4	5.6	5.9
820831 - 820831	0804 - 1406	5.6	5.6	5.8	5.2	5.4	5.6
820831 - 820831	1407 - 2009	5.6	5.6	5.8	5.5	6.4	7.5
820831 - 820901	2010 - 0212	5.8	6.1	6.3	6.3	7.2	8.0
820901 - 820901	0213 - 0815	6.0	6.1	6.2	5.5	5.8	6.3
820901 - 820901	0816 - 1418	5.7	5.8	6.0	5.4	5.6	5.8
820901 - 820901	1419 - 2021	5.7	5.8	6.1	5.8	7.3	8.5
820901 - 820902	2022 - 0224	6.1	6.3	6.4	6.2	7.7	8.6
820902 - 820902	0225 - 0827	5.9	6.2	6.4	5.1	5.5	6.2
820902 - 820902	0828 - 1430	5.6	5.8	6.0	4.9	5.0	5.3
820902 - 820902	1431 - 2033	5.5	5.6	5.7	5.4	6.6	7.6
820902 - 820903	2034 - 0236	5.7	6.0	6.2	6.1	7.3	8.6
820903 - 820903	0237 - 0839	5.8	6.0	6.2	5.4	5.7	6.1
820903 - 820903	0840 - 1442	5.6	5.7	5.9	5.0	5.2	5.5
820903 - 820903	1443 - 2045	5.5	5.6	5.6	5.3	6.0	7.1
820903 - 820904	2046 - 0248	5.6	5.8	6.0	5.6	6.7	7.7

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Table Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820904 - 820904	0249 - 0851	5.6	5.8	6.0	4.7	5.0	5.6
820904 - 820904	0852 - 1454	5.3	5.4	5.6	4.6	4.8	5.0
820904 - 820904	1455 - 2057	5.2	5.4	5.6	4.9	6.2	7.4
820904 - 820905	2058 - 0300	5.5	5.8	5.9	5.5	6.6	7.9
820905 - 820905	0301 - 0903	5.4	5.7	5.9	4.6	4.9	5.5
820905 - 820905	0904 - 1506	5.1	5.3	5.5	4.6	4.8	5.4
820905 - 820905	1507 - 2109	5.1	5.4	5.6	5.3	6.3	7.4
820905 - 820906	2110 - 0312	5.6	5.8	5.9	5.6	6.4	7.6
820906 - 820906	0313 - 0915	5.4	5.6	5.8	5.0	5.4	5.7
820906 - 820906	0916 - 1518	5.3	5.3	5.5	5.0	5.2	5.7
820906 - 820906	1519 - 2121	5.4	5.7	6.0	5.6	6.2	6.6
820906 - 820907	2122 - 0324	5.4	5.7	6.0	5.1	5.8	6.6
820907 - 820907	0325 - 0927	5.1	5.2	5.4	4.9	5.0	5.1
820907 - 820907	0928 - 1530	5.0	5.2	5.7	4.8	5.2	6.3
820907 - 820907	1531 - 2133	5.7	6.2	6.7	6.1	6.9	7.6
820907 - 820908	2134 - 0336	5.6	6.1	6.7	5.4	6.0	7.0
820908 - 820908	0337 - 0939	5.2	5.4	5.6	4.9	5.1	5.5
820908 - 820908	0940 - 1542	5.1	5.2	5.4	4.8	5.1	5.6
820908 - 820908	1543 - 2145	5.4	5.7	5.9	5.5	5.9	6.2
820908 - 820909	2146 - 0348	5.4	5.6	5.9	5.2	5.6	6.1
820909 - 820909	0349 - 0951	5.1	5.2	5.4	4.9	5.0	5.2
820909 - 820909	0952 - 1554	5.0	5.1	5.2	4.8	5.0	5.4
820909 - 820909	1555 - 2157	5.2	5.7	6.0	5.4	6.2	7.0
820909 - 820910	2158 - 0400	5.6	5.8	6.0	5.1	5.8	6.6
820910 - 820910	0401 - 1003	5.2	5.3	5.6	4.7	4.9	5.2
820910 - 820910	1004 - 1606	5.0	5.1	5.3	4.6	4.9	5.7
820910 - 820910	1607 - 2209	5.3	5.7	6.0	5.7	6.5	6.9
820910 - 820911	2210 - 0412	5.5	5.8	6.0	5.1	5.7	6.7

Table 4-2-2 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820911 - 820911	0413 - 1015	5.1	5.3	5.5	4.6	4.8	5.1
820911 - 820911	1016 - 1618	5.0	5.0	5.2	4.6	4.8	5.1
820911 - 820911	1619 - 2221	5.0	5.2	5.4	5.0	5.4	5.6
820911 - 820912	2222 - 0424	5.0	5.2	5.3	4.5	4.9	5.4
820912 - 820912	0425 - 1027	4.6	4.7	5.1	4.0	4.1	4.5
820912 - 820912	1028 - 1630	4.4	4.5	4.6	3.9	4.1	4.7
820912 - 820912	1631 - 2233	4.6	5.0	5.4	4.7	5.7	6.3
820912 - 820913	2234 - 0436	5.0	5.2	5.4	4.8	5.2	5.8
820913 - 820913	0437 - 1039	4.9	5.0	5.1	4.7	4.7	4.9
820913 - 820913	1040 - 1642	4.8	4.9	5.0	4.5	4.7	5.0
820913 - 820913	1643 - 2245	4.9	5.0	5.1	5.0	5.6	6.1
820913 - 820914	2246 - 0448	5.1	5.2	5.2	5.2	5.4	5.7
820914 - 820914	0449 - 1051	5.1	5.2	5.3	5.0	5.1	5.3
820914 - 820914	1052 - 1654	5.0	5.1	5.1	5.0	5.2	6.2
820914 - 820914	1655 - 2257	5.1	5.2	5.3	6.2	6.3	6.4
820914 - 820915	2258 - 0500	5.3	5.4	5.5	6.1	6.3	6.5
820915 - 820915	0501 - 1103	5.4	5.6	5.7	6.3	6.4	6.5
820915 - 820915	1104 - 1706	5.6	5.8	6.1	6.3	6.5	7.1
820915 - 820915	1707 - 2309	6.1	6.4	6.6	7.1	7.7	8.0
820915 - 820916	2310 - 0512	6.6	6.7	6.8	7.4	7.6	7.9
820916 - 820916	0513 - 1115	6.6	6.7	6.8	6.9	7.1	7.4
820916 - 820916	1116 - 1718	6.4	6.6	6.7	6.7	6.8	6.9
820916 - 820916	1719 - 2321	6.4	6.5	6.5	6.8	7.1	7.2
820916 - 820917	2322 - 0524	6.4	6.5	6.6	6.4	6.6	6.9
820917 - 820917	0525 - 1127	6.2	6.3	6.4	5.9	6.2	6.5
820917 - 820917	1128 - 1730	5.9	6.1	6.3	5.7	5.8	6.0
820917 - 820917	1731 - 2333	5.9	5.9	6.0	6.0	6.3	6.4
820917 - 820918	2334 - 0536	5.9	5.9	6.0	5.8	6.1	6.3

Table 9.1. Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820925 - 820925	0058 - 0700	4.2	4.3	4.4	3.3	3.7	4.4
820925 - 820925	0701 - 1303	4.0	4.1	4.2	2.7	3.0	3.5
820925 - 820925	1304 - 1906	3.7	3.9	4.1	2.9	4.6	5.7
820925 - 820926	1907 - 0109	4.1	4.3	4.5	4.7	5.3	5.8
820926 - 820926	0110 - 0712	4.4	4.4	4.5	4.0	4.4	4.7
820926 - 820926	0713 - 1315	4.2	4.3	4.5	4.0	4.1	4.2
820926 - 820926	1316 - 1918	4.2	4.3	4.4	4.1	4.9	5.5
820926 - 820927	1919 - 0121	4.4	4.5	4.6	4.5	4.8	5.3
820927 - 820927	0122 - 0724	4.4	4.5	4.6	4.3	4.4	4.5
820927 - 820927	0725 - 1327	4.3	4.4	4.5	4.2	4.2	4.3
820927 - 820927	1328 - 1930	4.3	4.4	4.5	4.3	5.0	5.9
820927 - 820928	1931 - 0133	4.5	4.6	4.8	3.6	4.9	6.3
820928 - 820928	0134 - 0736	4.2	4.4	4.7	2.7	3.1	3.6
820928 - 820928	0737 - 1339	3.7	4.0	4.2	2.6	2.7	3.2
820928 - 820928	1340 - 1942	3.8	3.9	4.1	3.2	4.4	5.0
820928 - 820929	1943 - 0145	4.1	4.2	4.3	4.2	4.4	4.8
820929 - 820929	0146 - 0748	4.2	4.2	4.3	4.0	4.1	4.2
820929 - 820929	0749 - 1351	4.1	4.2	4.3	3.9	4.0	4.2
820929 - 820929	1352 - 1954	4.1	4.3	4.5	4.2	5.2	6.0
820929 - 820930	1955 - 0157	4.5	4.6	4.7	4.6	5.1	5.8
820930 - 820930	0158 - 0800	4.6	4.6	4.7	4.2	4.5	4.6
820930 - 820930	0801 - 1403	4.4	4.5	4.6	4.0	4.1	4.4
820930 - 820930	1404 - 2006	4.4	4.5	4.7	4.4	5.4	6.1
820930 - 821001	2007 - 0209	4.7	4.8	4.9	4.5	5.0	5.7
821001 - 821001	0210 - 0812	4.6	4.7	4.8	4.1	4.3	4.6
821001 - 821001	0813 - 1415	4.4	4.5	4.6	3.9	4.1	4.2
821001 - 821001	1416 - 2018	4.4	4.5	4.6	4.3	4.9	5.4
821001 - 821002	2019 - 0221	4.6	4.6	4.7	3.7	4.3	5.2

Table 4.2.2 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820918 - 820918	0537 - 1139	5.7	5.8	5.9	5.6	5.7	5.8
820918 - 820918	1140 - 1742	5.5	5.6	5.7	5.5	5.9	6.4
820918 - 820918	1743 - 2345	5.5	5.5	5.6	6.4	6.5	6.6
820918 - 820919	2346 - 0548	5.4	5.5	5.6	6.1	6.3	6.5
820919 - 820919	0549 - 1151	5.3	5.4	5.5	6.0	6.0	6.1
820919 - 820919	1152 - 1754	5.2	5.3	5.4	5.9	6.1	6.3
820919 - 820919	1755 - 2357	5.2	5.3	5.4	6.3	6.4	6.5
820919 - 820920	2358 - 0600	5.2	5.3	5.3	6.0	6.1	6.4
820920 - 820920	0601 - 1203	5.1	5.2	5.3	5.7	5.8	6.0
820920 - 820920	1204 - 1806	5.0	5.1	5.2	5.7	6.0	6.4
820920 - 820921	1807 - 0009	5.1	5.1	5.2	6.2	6.4	6.5
820921 - 820921	0010 - 0612	5.0	5.1	5.1	5.8	5.9	6.2
820921 - 820921	0613 - 1215	4.9	5.0	5.1	5.5	5.7	5.8
820921 - 820921	1216 - 1818	4.9	4.9	5.0	5.6	5.9	6.3
820921 - 820922	1819 - 0021	4.9	5.0	5.1	6.2	6.3	6.4
820922 - 820922	0022 - 0624	4.9	5.0	5.0	5.8	6.0	6.2
820922 - 820922	0625 - 1227	4.9	5.0	5.1	5.4	5.6	5.8
820922 - 820922	1228 - 1830	4.7	4.8	4.9	5.5	5.8	6.2
820922 - 820923	1831 - 0033	4.7	4.8	4.8	4.7	5.9	6.5
820923 - 820923	0034 - 0636	4.6	4.7	4.9	3.9	4.1	4.7
820923 - 820923	0637 - 1239	4.4	4.5	4.6	3.2	3.7	4.0
820923 - 820923	1240 - 1842	4.1	4.3	4.4	3.2	4.2	5.5
820923 - 820924	1843 - 0045	4.2	4.4	4.5	3.7	5.0	5.8
820924 - 820924	0046 - 0648	4.2	4.4	4.6	2.6	3.0	3.6
820924 - 820924	0649 - 1251	3.9	4.1	4.3	2.3	2.5	2.7
820924 - 820924	1252 - 1854	3.8	3.9	4.0	2.5	4.2	5.6
820924 - 820925	1855 - 0057	4.0	4.2	4.4	4.4	5.2	5.7

Table 4, Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821002 - 821002	0222 - 0824	4.3	4.5	4.6	3.6	3.7	3.8
821002 - 821002	0825 - 1427	4.1	4.3	4.3	3.6	3.7	4.4
821002 - 821002	1428 - 2030	4.2	4.4	4.6	4.3	5.2	5.6
821002 - 821003	2031 - 0233	4.6	4.7	4.8	3.9	4.6	5.4
821003 - 821003	0234 - 0836	4.3	4.5	4.7	3.4	3.7	4.0
821003 - 821003	0837 - 1439	4.1	4.2	4.4	3.4	3.6	4.4
821003 - 821003	1440 - 2042	4.1	4.3	4.5	4.3	5.0	5.3
821003 - 821004	2043 - 0245	4.5	4.6	4.6	3.4	4.2	5.1
821004 - 821004	0246 - 0848	4.0	4.3	4.5	2.5	2.9	3.5
821004 - 821004	0849 - 1451	3.5	3.8	4.1	2.3	2.5	2.9
821004 - 821004	1452 - 2054	3.5	3.6	3.9	2.9	4.1	4.7
821004 - 821005	2055 - 0257	3.9	4.0	4.1	2.6	3.1	4.1
821005 - 821005	0258 - 0900	3.5	3.7	3.9	2.5	2.7	2.7
821005 - 821005	0901 - 1503	3.3	3.5	3.5	2.3	2.5	2.9
821005 - 821005	1504 - 2106	3.3	3.4	3.6	2.9	3.7	4.1
821005 - 821006	2107 - 0309	3.5	3.6	3.8	2.2	2.8	3.7
821006 - 821006	0310 - 0912	3.2	3.3	3.5	2.0	2.1	2.4
821006 - 821006	0913 - 1515	2.9	3.1	3.2	2.0	2.5	3.3
821006 - 821006	1516 - 2118	3.0	3.3	3.6	3.1	3.9	4.4
821006 - 821007	2119 - 0321	3.6	3.6	3.7	3.0	3.3	3.7
821007 - 821007	0322 - 0924	3.4	3.5	3.6	2.7	2.9	3.0
821007 - 821007	0925 - 1527	3.3	3.4	3.5	2.7	2.9	3.1
821007 - 821007	1528 - 2130	3.3	3.5	3.7	3.1	3.7	4.1
821007 - 821008	2131 - 0333	3.6	3.7	3.7	2.8	3.3	3.7
821008 - 821008	0334 - 0936	3.4	3.5	3.7	2.7	2.9	3.1
821008 - 821008	0937 - 1539	3.4	3.5	3.5	2.8	3.2	3.9
821008 - 821008	1540 - 2142	3.4	3.7	3.9	3.6	4.1	4.5
821008 - 821009	2143 - 0345	3.5	3.8	3.9	2.0	2.8	3.6

Table 4-2-28 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821009 - 821009	0346 - 0948	3.2	3.3	3.5	2.1	2.4	2.8
821009 - 821009	0949 - 1551	3.2	3.2	3.3	2.6	3.1	3.8
821009 - 821009	1552 - 2154	3.3	3.6	3.8	3.7	4.1	4.3
821009 - 821010	2155 - 0357	3.7	3.8	3.9	3.2	3.4	3.7
821010 - 821010	0358 - 1000	3.5	3.7	3.7	3.1	3.2	3.3
821010 - 821010	1001 - 1603	3.5	3.6	3.7	3.1	3.5	4.1
821010 - 821010	1604 - 2206	3.6	3.8	4.0	3.3	3.8	4.2
821010 - 821011	2207 - 0409	3.6	3.8	3.9	2.9	3.1	3.4
821011 - 821011	0410 - 1012	3.5	3.5	3.7	2.7	2.8	3.0
821011 - 821011	1013 - 1615	3.3	3.4	3.5	2.6	3.0	3.4
821011 - 821011	1616 - 2218	3.3	3.5	3.5	1.9	3.1	3.7
821011 - 821012	2219 - 0421	3.2	3.3	3.5	2.0	2.6	2.9
821012 - 821012	0422 - 1024	3.0	3.0	3.2	2.0	2.4	2.7
821012 - 821012	1025 - 1627	2.9	3.0	3.1	2.4	2.8	3.2
821012 - 821012	1628 - 2230	3.1	3.3	3.4	3.2	3.4	3.5
821012 - 821013	2231 - 0433	3.3	3.4	3.5	2.5	3.0	3.4
821013 - 821013	0434 - 1036	3.2	3.3	3.3	2.4	2.7	3.1
821013 - 821013	1037 - 1639	3.1	3.2	3.3	2.6	2.9	3.1
821013 - 821013	1640 - 2242	3.2	3.3	3.4	2.8	3.0	3.3
821013 - 821014	2243 - 0445	3.2	3.3	3.3	2.6	2.8	2.9
821014 - 821014	0446 - 1048	3.1	3.2	3.3	2.4	2.6	2.8
821014 - 821014	1049 - 1651	3.0	3.1	3.2	2.4	2.9	3.4
821014 - 821014	1652 - 2254	3.1	3.3	3.5	2.5	3.3	3.8
821014 - 821015	2255 - 0457	3.1	3.3	3.5	2.3	2.4	2.6
821015 - 821015	0458 - 1100	3.0	3.1	3.2	2.3	2.4	2.7
821015 - 821015	1101 - 1703	3.0	3.0	3.1	2.5	2.9	3.3
821015 - 821015	1704 - 2306	3.0	3.1	3.2	2.4	2.8	3.2
821015 - 821016	2307 - 0509	3.0	3.1	3.2	2.4	2.6	3.0

Table 7.7 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821016 - 821016	0510 - 1112	3.0	3.1	3.2	2.7	2.9	3.1
821016 - 821016	1113 - 1715	3.1	3.1	3.2	2.7	2.9	3.1
821016 - 821016	1716 - 2318	3.1	3.1	3.2	2.7	2.8	3.0
821016 - 821017	2319 - 0521	3.0	3.1	3.2	2.2	2.6	2.9
821017 - 821017	0522 - 1124	3.0	3.1	3.2	2.8	3.0	3.2
821017 - 821017	1125 - 1727	3.1	3.3	3.5	3.0	3.4	3.8
821017 - 821017	1728 - 2330	3.4	3.5	3.6	2.7	3.2	3.8
821017 - 821018	2331 - 0533	3.2	3.4	3.5	2.4	2.6	2.8
821018 - 821018	0534 - 1136	3.1	3.2	3.3	2.3	2.5	2.7
821018 - 821018	1137 - 1739	3.0	3.1	3.2	2.6	3.1	3.4
821018 - 821018	1740 - 2342	3.2	3.3	3.3	2.7	2.9	3.3
821018 - 821019	2343 - 0545	3.2	3.3	3.3	2.7	2.9	3.0
821019 - 821019	0546 - 1148	3.1	3.2	3.3	2.1	2.6	3.0
821019 - 821019	1149 - 1751	2.9	3.0	3.1	2.3	2.8	3.2
821019 - 821019	1752 - 2354	3.0	3.2	3.3	2.8	3.0	3.3
821019 - 821020	2355 - 0557	3.2	3.3	3.4	2.5	2.8	3.0
821020 - 821020	0558 - 1200	3.1	3.2	3.3	2.6	2.7	2.9
821020 - 821020	1201 - 1803	3.1	3.2	3.3	2.7	3.1	3.5
821020 - 821021	1804 - 0006	3.2	3.3	3.4	2.6	2.8	3.2
821021 - 821021	0007 - 0609	3.1	3.2	3.3	2.6	2.7	2.8
821021 - 821021	0610 - 1212	3.1	3.1	3.2	2.6	2.7	2.8
821021 - 821021	1213 - 1815	3.0	3.1	3.1	2.7	2.9	3.2
821021 - 821022	1816 - 0018	3.0	3.2	3.2	2.3	2.6	3.0
821022 - 821022	0019 - 0621	2.9	3.0	3.1	2.2	2.4	2.6
821022 - 821022	0622 - 1224	2.7	2.8	2.9	2.0	2.3	2.6
821022 - 821022	1225 - 1827	2.6	2.8	3.1	2.5	3.1	3.4
821022 - 821023	1828 - 0030	3.1	3.3	3.4	2.5	2.9	3.3
821023 - 821023	0031 - 0633	3.1	3.2	3.2	2.5	2.8	3.0

APPENDIX Table 4-C-2 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821023 - 821023	0634 - 1236	3.0	3.2	3.3	2.4	2.7	2.9
821023 - 821023	1237 - 1839	2.9	3.0	3.2	2.7	3.0	3.2
821023 - 821024	1840 - 0042	3.1	3.2	3.3	2.7	2.8	3.2
821024 - 821024	0043 - 0645	3.0	3.2	3.2	2.6	2.7	2.8
821024 - 821024	0646 - 1248	3.0	3.1	3.1	2.6	2.8	2.9
821024 - 821024	1249 - 1851	3.0	3.1	3.4	2.9	3.2	3.6
821024 - 821025	1852 - 0054	3.3	3.5	3.5	2.5	2.9	3.4
821025 - 821025	0055 - 0657	2.8	3.1	3.4	2.2	2.4	2.7
821025 - 821025	0658 - 1300	2.7	2.8	2.9	2.2	2.6	3.0

Table 4-29 Datapod intragravel and surface water temperature (C) continuous record, at Slough 19, RM 140.0, Geocode S31N02W10DBA.

Note, that time periods are six hours and three minutes in duration; accordingly, daily minimum, maximum and mean values can not be directly calculated from this data.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820821 - 820821	0604 - 1206	2.9	2.9	3.0	3.3	3.5	4.0
820821 - 820821	1207 - 1809	2.8	2.9	2.9	3.3	3.6	5.0
820821 - 820822	1810 - 0012	2.8	2.9	3.0	5.0	7.0	7.7
820822 - 820822	0013 - 0615	2.9	3.0	3.1	4.1	5.4	6.7
820822 - 820822	0616 - 1218	3.0	3.0	3.0	3.3	3.5	4.1
820822 - 820822	1219 - 1821	2.8	2.9	2.9	3.3	3.5	4.9
820822 - 820823	1822 - 0024	2.8	2.9	3.0	4.8	6.6	7.2
820823 - 820823	0025 - 0627	2.9	3.0	3.0	4.5	5.3	6.5
820823 - 820823	0628 - 1230	3.0	3.0	3.0	4.1	4.2	4.5
820823 - 820823	1231 - 1833	2.9	3.0	3.0	4.1	4.8	5.5
820823 - 820824	1834 - 0036	2.9	3.0	3.1	5.4	6.1	6.4
820824 - 820824	0037 - 0639	3.0	3.0	3.1	4.1	4.8	5.8
820824 - 820824	0640 - 1242	3.0	3.0	3.0	3.8	3.9	4.1
820824 - 820824	1243 - 1845	2.9	3.0	3.0	3.9	4.6	6.1
820824 - 820825	1846 - 0048	2.9	3.0	3.1	6.1	6.7	7.3
820825 - 820825	0049 - 0651	3.0	3.1	3.1	4.5	5.3	6.4
820825 - 820825	0652 - 1254	3.0	3.1	3.1	4.1	4.3	4.5
820825 - 820825	1255 - 1857	3.0	3.0	3.1	4.2	5.1	6.2
820825 - 820826	1858 - 0100	3.0	3.0	3.1	6.2	6.9	7.7
820826 - 820826	0101 - 0703	3.1	3.1	3.1	4.4	5.2	6.4
820826 - 820826	0704 - 1306	3.0	3.0	3.1	4.0	4.2	4.4
820826 - 820826	1307 - 1909	2.9	3.0	3.0	4.1	5.2	6.4
820826 - 820827	1910 - 0112	2.9	3.0	3.1	6.0	7.3	8.0
820827 - 820827	0113 - 0715	3.0	3.1	3.1	3.8	4.8	6.0
820827 - 820827	0716 - 1318	3.0	3.0	3.1	3.0	3.3	3.7
820827 - 820827	1319 - 1921	2.9	2.9	3.0	3.1	3.9	6.4
820827 - 820828	1922 - 0124	2.9	2.9	3.0	5.6	6.9	7.6

Table 4-C-29 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820828 - 820828	0125 - 0727	3.0	3.0	3.1	3.6	4.5	5.6
820828 - 820828	0728 - 1330	3.0	3.0	3.0	3.4	3.5	3.8
820828 - 820828	1331 - 1933	2.9	2.9	3.0	3.7	4.3	5.4
820828 - 820829	1934 - 0136	2.9	3.0	3.0	5.4	6.0	6.4
820829 - 820829	0137 - 0739	3.0	3.0	3.0	4.2	4.7	5.6
820829 - 820829	0740 - 1342	3.0	3.0	3.0	3.9	4.0	4.2
820829 - 820829	1343 - 1945	2.9	3.0	3.0	4.1	4.8	5.4
820829 - 820830	1946 - 0148	2.9	3.0	3.0	5.0	5.4	5.7
820830 - 820830	0149 - 0751	2.9	3.0	3.0	4.2	4.5	5.0
820830 - 820830	0752 - 1354	3.0	3.0	3.0	4.1	4.1	4.1
820830 - 820830	1355 - 1957	2.9	3.0	3.0	4.1	4.4	4.7
820830 - 820831	1958 - 0200	2.9	2.9	3.0	4.4	4.7	4.9
820831 - 820831	0201 - 0803	2.9	3.0	3.0	3.8	4.0	4.3
820831 - 820831	0804 - 1406	2.9	2.9	2.9	3.7	3.8	4.0
820831 - 820831	1407 - 2009	2.8	2.9	2.9	4.0	4.6	5.5
820831 - 820901	2010 - 0212	2.9	2.9	3.0	4.5	5.3	5.9
820901 - 820901	0213 - 0815	2.9	2.9	2.9	3.7	4.0	4.5
820901 - 820901	0816 - 1418	2.8	2.9	2.9	3.6	3.7	4.1
820901 - 820901	1419 - 2021	2.8	2.9	3.0	4.1	5.2	6.0
820901 - 820902	2022 - 0224	3.0	3.1	3.2	4.4	5.3	6.0
820902 - 820902	0225 - 0827	3.0	3.1	3.1	3.5	3.8	4.4
820902 - 820902	0828 - 1430	2.9	3.0	3.1	3.4	3.5	3.9
820902 - 820902	1431 - 2033	2.8	2.9	2.9	4.0	5.1	6.4
820902 - 820903	2034 - 0236	2.9	3.0	3.0	4.5	5.7	6.6
820903 - 820903	0237 - 0839	3.0	3.0	3.0	3.9	4.1	4.5
820903 - 820903	0840 - 1442	2.9	2.9	3.0	3.7	3.8	4.0
820903 - 820903	1443 - 2045	2.9	2.9	3.0	4.0	4.6	5.6
820903 - 820904	2046 - 0248	2.9	2.9	3.0	4.3	5.1	5.7

Table 4/29 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820904 - 820904	0249 - 0851	2.9	2.9	3.0	3.6	3.9	4.3
820904 - 820904	0852 - 1454	2.9	2.9	2.9	3.6	3.7	4.0
820904 - 820904	1455 - 2057	2.9	2.9	3.0	4.0	5.0	5.8
820904 - 820905	2058 - 0300	2.9	3.0	3.0	4.2	5.1	6.1
820905 - 820905	0301 - 0903	2.9	3.0	3.0	3.4	3.6	4.2
820905 - 820905	0904 - 1506	2.9	2.9	2.9	3.4	3.6	4.1
820905 - 820905	1507 - 2109	2.9	2.9	3.0	4.1	4.9	5.8
820905 - 820906	2110 - 0312	2.9	3.0	3.0	4.2	4.9	5.8
820906 - 820906	0313 - 0915	3.0	3.0	3.0	3.7	3.9	4.2
820906 - 820906	0916 - 1518	2.9	3.0	3.0	3.6	3.8	4.1
820906 - 820906	1519 - 2121	2.9	3.0	3.0	4.2	4.8	5.1
820906 - 820907	2122 - 0324	2.9	3.0	3.1	4.2	4.7	5.1
820907 - 820907	0325 - 0927	3.0	3.0	3.1	3.9	4.0	4.2
820907 - 820907	0928 - 1530	2.9	3.0	3.1	3.8	4.2	5.2
820907 - 820907	1531 - 2133	3.0	3.0	3.1	5.3	6.3	7.2
820907 - 820908	2134 - 0336	3.1	3.2	3.2	4.8	5.6	6.7
820908 - 820908	0337 - 0939	3.1	3.2	3.2	4.1	4.4	4.8
820908 - 820908	0940 - 1542	3.1	3.1	3.2	4.0	4.1	4.5
820908 - 820908	1543 - 2145	3.1	3.1	3.2	4.5	5.3	5.6
820908 - 820909	2146 - 0348	3.1	3.1	3.2	4.5	5.0	5.5
820909 - 820909	0349 - 0951	3.1	3.1	3.2	4.0	4.2	4.5
820909 - 820909	0952 - 1554	3.0	3.1	3.1	3.9	4.0	4.4
820909 - 820909	1555 - 2157	3.0	3.1	3.1	4.4	5.3	6.2
820909 - 820910	2158 - 0400	3.1	3.1	3.2	4.1	4.6	5.4
820910 - 820910	0401 - 1003	3.1	3.1	3.1	3.6	3.8	4.1
820910 - 820910	1004 - 1606	3.0	3.1	3.1	3.6	3.9	4.4
820910 - 820910	1607 - 2209	3.0	3.1	3.1	4.4	4.9	5.3
820910 - 820911	2210 - 0412	3.0	3.1	3.1	3.8	4.3	5.0

APPENDIX Table 4-C 29 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820911 - 820911	0413 - 1015	3.0	3.1	3.1	3.5	3.6	3.8
820911 - 820911	1016 - 1618	3.0	3.0	3.1	3.4	3.7	4.0
820911 - 820911	1619 - 2221	3.0	3.0	3.0	4.0	4.3	4.5
820911 - 820912	2222 - 0424	3.0	3.0	3.1	3.6	3.9	4.3
820912 - 820912	0425 - 1027	3.0	3.0	3.1	3.3	3.4	3.6
820912 - 820912	1028 - 1630	3.0	3.0	3.0	3.2	3.3	3.3
820912 - 820912	1631 - 2233	2.9	3.0	3.0	3.3	4.4	5.1
820912 - 820913	2234 - 0436	2.9	3.0	3.1	3.7	4.0	4.4
820913 - 820913	0437 - 1039	3.0	3.1	3.1	3.6	3.7	3.8
820913 - 820913	1040 - 1642	3.0	3.0	3.0	3.6	3.7	3.9
820913 - 820913	1643 - 2245	2.9	3.0	3.0	3.9	4.3	5.0
820913 - 820914	2246 - 0448	3.0	3.0	3.1	3.8	3.9	4.1
820914 - 820914	0449 - 1051	3.1	3.1	3.1	3.6	3.7	3.9
820914 - 820914	1052 - 1654	3.1	3.1	3.1	3.5	3.9	4.7
820914 - 820914	1655 - 2257	3.1	3.1	3.2	4.4	4.6	4.7
820914 - 820915	2258 - 0500	3.2	3.2	3.3	4.1	4.2	4.4
820915 - 820915	0501 - 1103	3.3	3.3	3.3	3.9	4.1	4.2
820915 - 820915	1104 - 1706	3.3	3.3	3.4	3.9	4.2	4.7
820915 - 820915	1707 - 2309	3.3	3.4	3.5	4.6	5.1	5.3
820915 - 820916	2310 - 0512	3.5	3.5	3.5	4.3	4.4	4.7
820916 - 820916	0513 - 1115	3.5	3.5	3.5	4.1	4.2	4.4
820916 - 820916	1116 - 1718	3.5	3.5	3.5	4.3	4.4	4.7
820916 - 820916	1719 - 2321	3.5	3.8	4.2	4.5	5.1	5.4
820916 - 820917	2322 - 0524	4.0	4.1	4.2	4.4	4.5	4.9
820917 - 820917	0525 - 1127	3.8	3.9	4.0	4.0	4.2	4.4
820917 - 820917	1128 - 1730	3.7	3.8	3.8	4.0	4.2	4.5
820917 - 820917	1731 - 2333	3.8	3.9	3.9	4.4	4.5	4.6
820917 - 820918	2334 - 0536	3.7	3.8	3.9	4.0	4.1	4.4

Table 4-C-29 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820918 - 820918	0537 - 1139	3.6	3.7	3.7	3.7	3.8	4.0
820918 - 820918	1140 - 1742	3.5	3.6	3.7	3.7	4.1	4.5
820918 - 820918	1743 - 2345	3.6	3.7	3.8	4.1	4.4	4.6
820918 - 820919	2346 - 0548	3.6	3.6	3.7	3.8	3.9	4.2
820919 - 820919	0549 - 1151	3.5	3.5	3.6	3.7	3.7	3.8
820919 - 820919	1152 - 1754	3.5	3.5	3.5	3.7	3.9	4.1
820919 - 820919	1755 - 2357	3.5	3.5	3.6	3.9	4.1	4.2
820919 - 820920	2358 - 0600	3.5	3.5	3.5	3.7	3.8	4.0
820920 - 820920	0601 - 1203	3.4	3.5	3.5	3.6	3.7	3.8
820920 - 820920	1204 - 1806	3.4	3.4	3.5	3.6	3.9	4.4
820920 - 820921	1807 - 0009	3.5	3.5	3.6	4.0	4.3	4.4
820921 - 820921	0010 - 0612	3.5	3.5	3.5	3.7	3.8	4.0
820921 - 820921	0613 - 1215	3.4	3.5	3.5	3.5	3.6	3.7
820921 - 820921	1216 - 1818	3.4	3.5	3.6	3.6	4.0	4.4
820921 - 820922	1819 - 0021	3.5	3.6	3.6	3.9	4.1	4.3
820922 - 820922	0022 - 0624	3.5	3.5	3.5	3.7	3.8	3.9
820922 - 820922	0625 - 1227	3.4	3.5	3.5	3.5	3.6	3.7
820922 - 820922	1228 - 1830	3.4	3.4	3.5	3.5	4.0	4.4
820922 - 820923	1831 - 0033	3.5	3.6	3.7	3.9	4.4	4.9
820923 - 820923	0034 - 0636	3.4	3.5	3.6	3.3	3.5	3.9
820923 - 820923	0637 - 1239	3.3	3.3	3.4	3.2	3.3	3.3
820923 - 820923	1240 - 1842	3.2	3.2	3.3	3.2	3.4	4.2
820923 - 820924	1843 - 0045	3.3	3.4	3.5	3.5	4.1	4.5
820924 - 820924	0046 - 0648	3.1	3.3	3.4	3.0	3.2	3.5
820924 - 820924	0649 - 1251	3.1	3.1	3.1	2.9	3.0	3.0
820924 - 820924	1252 - 1854	3.1	3.2	3.3	3.1	3.6	4.3
820924 - 820925	1855 - 0057	3.3	3.4	3.4	3.4	3.9	4.3

Table 4-129 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820925 - 820925	0058 - 0700	3.2	3.2	3.3	3.1	3.2	3.4
820925 - 820925	0701 - 1303	3.1	3.1	3.2	2.9	3.1	3.2
820925 - 820925	1304 - 1906	3.1	3.2	3.4	3.1	3.5	4.0
820925 - 820926	1907 - 0109	3.3	3.4	3.5	3.4	3.7	3.9
820926 - 820926	0110 - 0712	3.3	3.3	3.4	3.2	3.3	3.4
820926 - 820926	0713 - 1315	3.2	3.3	3.3	3.2	3.3	3.3
820926 - 820926	1316 - 1918	3.2	3.3	3.4	3.3	3.6	3.9
820926 - 820927	1919 - 0121	3.3	3.4	3.4	3.4	3.6	3.8
820927 - 820927	0122 - 0724	3.2	3.3	3.3	3.3	3.4	3.4
820927 - 820927	0725 - 1327	3.3	3.3	3.3	3.3	3.3	3.4
820927 - 820927	1328 - 1930	3.2	3.4	3.5	3.3	3.9	4.4
820927 - 820928	1931 - 0133	3.4	3.5	3.6	3.3	3.9	4.4
820928 - 820928	0134 - 0736	3.1	3.2	3.4	2.9	3.1	3.3
820928 - 820928	0737 - 1339	3.0	3.1	3.1	2.8	2.9	3.1
820928 - 820928	1340 - 1942	3.1	3.2	3.4	3.1	3.5	3.8
820928 - 820929	1943 - 0145	3.3	3.4	3.4	3.2	3.3	3.6
820929 - 820929	0146 - 0748	3.3	3.3	3.3	3.2	3.3	3.3
820929 - 820929	0749 - 1351	3.2	3.3	3.3	3.2	3.2	3.3
820929 - 820929	1352 - 1954	3.2	3.4	3.6	3.3	3.8	4.1
820929 - 820930	1955 - 0157	3.5	3.5	3.6	3.3	3.5	4.0
820930 - 820930	0158 - 0800	3.3	3.4	3.5	3.2	3.3	3.3
820930 - 820930	0801 - 1403	3.2	3.3	3.3	3.2	3.2	3.3
820930 - 820930	1404 - 2006	3.3	3.4	3.6	3.3	3.7	4.1
820930 - 821001	2007 - 0209	-----	-----	-----	3.5	3.7	3.9
821001 - 821001	0210 - 0812	-----	-----	-----	3.4	3.4	3.6
821001 - 821001	0813 - 1415	-----	-----	-----	3.3	3.3	3.5
821001 - 821001	1416 - 2018	-----	-----	-----	3.6	3.9	4.2
821001 - 821002	2019 - 0221	-----	-----	-----	3.2	3.6	4.1

Table 1.1. Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821002 - 821002	0222 - 0824	-----	-----	-----	2.9	3.0	3.2
821002 - 821002	0825 - 1427	-----	-----	-----	2.9	3.0	3.3
821002 - 821002	1428 - 2030	-----	-----	-----	3.3	3.9	4.2
821002 - 821003	2031 - 0233	-----	-----	-----	3.1	3.5	4.1
821003 - 821003	0234 - 0836	-----	-----	-----	2.7	2.9	3.1
821003 - 821003	0837 - 1439	-----	-----	-----	2.7	2.9	3.3
821003 - 821003	1440 - 2042	-----	-----	-----	3.3	3.8	4.2
821003 - 821004	2043 - 0245	-----	-----	-----	3.0	3.4	3.9
821004 - 821004	0246 - 0848	-----	-----	-----	2.5	2.7	2.9
821004 - 821004	0849 - 1451	-----	-----	-----	2.4	2.5	2.8
821004 - 821004	1452 - 2054	-----	-----	-----	2.7	3.3	3.8
821004 - 821005	2055 - 0257	-----	-----	-----	2.4	2.9	3.5
821005 - 821005	0258 - 0900	-----	-----	-----	2.4	2.5	2.7
821005 - 821005	0901 - 1503	-----	-----	-----	2.3	2.5	3.2
821005 - 821005	1504 - 2106	-----	-----	-----	2.5	2.9	3.3
821005 - 821006	2107 - 0309	-----	-----	-----	2.3	2.6	3.3
821006 - 821006	0310 - 0912	-----	-----	-----	2.2	2.3	2.4
821006 - 821006	0913 - 1515	-----	-----	-----	2.2	2.4	2.7
821006 - 821006	1516 - 2118	-----	-----	-----	2.7	3.2	3.4
821006 - 821007	2119 - 0321	-----	-----	-----	2.4	2.6	3.0
821007 - 821007	0322 - 0924	-----	-----	-----	2.3	2.4	2.4
821007 - 821007	0925 - 1527	-----	-----	-----	2.3	2.4	2.6
821007 - 821007	1528 - 2130	-----	-----	-----	2.5	2.8	3.0
821007 - 821008	2131 - 0333	-----	-----	-----	2.3	2.5	2.6
821008 - 821008	0334 - 0936	-----	-----	-----	2.0	2.2	2.4
821008 - 821008	0937 - 1539	-----	-----	-----	1.8	2.3	3.1
821008 - 821008	1540 - 2142	-----	-----	-----	2.8	3.2	3.4
821008 - 821009	2143 - 0345	-----	-----	-----	2.3	2.5	2.8

Ann. 2012 Table 4 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821009 - 821009	0346 - 0948	-----	-----	-----	2.2	2.3	2.4
821009 - 821009	0949 - 1551	-----	-----	-----	2.2	2.5	3.0
821009 - 821009	1552 - 2154	-----	-----	-----	2.7	3.0	3.2
821009 - 821010	2155 - 0357	-----	-----	-----	2.4	2.5	2.7
821010 - 821010	0358 - 1000	-----	-----	-----	2.3	2.4	2.5
821010 - 821010	1001 - 1603	-----	-----	-----	2.2	2.5	2.8
821010 - 821010	1604 - 2206	-----	-----	-----	2.3	2.6	2.9
821010 - 821011	2207 - 0409	-----	-----	-----	2.3	2.4	2.5
821011 - 821011	0410 - 1012	-----	-----	-----	2.4	2.5	2.5
821011 - 821011	1013 - 1615	-----	-----	-----	2.4	2.7	3.1
821011 - 821011	1616 - 2218	-----	-----	-----	2.4	2.8	3.2
821011 - 821012	2219 - 0421	-----	-----	-----	2.2	2.3	2.4
821012 - 821012	0422 - 1024	-----	-----	-----	2.0	2.1	2.2
821012 - 821012	1025 - 1627	-----	-----	-----	2.0	2.3	2.7
821012 - 821012	1628 - 2230	-----	-----	-----	2.4	2.6	2.7
821012 - 821013	2231 - 0433	-----	-----	-----	1.5	2.1	2.4
821013 - 821013	0434 - 1036	-----	-----	-----	1.6	1.8	2.0
821013 - 821013	1037 - 1639	-----	-----	-----	2.0	2.4	2.9
821013 - 821013	1640 - 2242	-----	-----	-----	2.3	2.7	3.0
821013 - 821014	2243 - 0445	-----	-----	-----	2.0	2.1	2.4
821014 - 821014	0446 - 1048	-----	-----	-----	2.0	2.1	2.1
821014 - 821014	1049 - 1651	-----	-----	-----	2.1	2.7	3.6
821014 - 821014	1652 - 2254	-----	-----	-----	2.6	3.3	3.8
821014 - 821015	2255 - 0457	-----	-----	-----	2.5	2.6	2.7
821015 - 821015	0458 - 1100	-----	-----	-----	2.5	2.6	2.6
821015 - 821015	1101 - 1703	-----	-----	-----	2.5	3.0	3.3
821015 - 821015	1704 - 2306	-----	-----	-----	2.4	2.8	3.1
821015 - 821016	2307 - 0509	-----	-----	-----	2.3	2.5	2.7

Table 4-C-29 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821016 - 821016	0510 - 1112	-----	-----	-----	2.0	2.2	2.4
821016 - 821016	1113 - 1715	-----	-----	-----	2.0	2.1	2.2
821016 - 821016	1716 - 2318	-----	-----	-----	1.8	2.1	2.3
821016 - 821017	2319 - 0521	-----	-----	-----	1.8	1.8	1.9
821017 - 821017	0522 - 1124	-----	-----	-----	1.8	1.9	1.9
821017 - 821017	1125 - 1727	-----	-----	-----	1.9	2.5	3.1
821017 - 821017	1728 - 2330	-----	-----	-----	2.2	2.6	3.1
821017 - 821018	2331 - 0533	-----	-----	-----	2.1	2.3	2.4
821018 - 821018	0534 - 1136	-----	-----	-----	2.3	2.4	2.4
821018 - 821018	1137 - 1739	-----	-----	-----	2.3	2.6	2.9
821018 - 821018	1740 - 2342	-----	-----	-----	2.0	2.3	2.6
821018 - 821019	2343 - 0545	-----	-----	-----	1.6	1.8	2.0
821019 - 821019	0546 - 1148	-----	-----	-----	1.5	1.6	1.7
821019 - 821019	1149 - 1751	-----	-----	-----	1.5	1.8	2.2
821019 - 821019	1752 - 2354	-----	-----	-----	1.4	1.8	2.2
821019 - 821020	2355 - 0557	-----	-----	-----	1.4	1.5	1.6
821020 - 821020	0558 - 1200	-----	-----	-----	1.5	1.5	1.7
821020 - 821020	1201 - 1803	-----	-----	-----	1.7	2.0	2.3
821020 - 821021	1804 - 0006	-----	-----	-----	1.9	2.0	2.1
821021 - 821021	0007 - 0609	-----	-----	-----	1.9	2.1	2.2
821021 - 821021	0610 - 1212	-----	-----	-----	2.1	2.3	2.4
821021 - 821021	1213 - 1815	-----	-----	-----	2.0	2.3	2.4
821021 - 821022	1816 - 0018	-----	-----	-----	1.7	1.8	2.0
821022 - 821022	0019 - 0621	-----	-----	-----	1.7	1.7	1.8
821022 - 821022	0622 - 1224	-----	-----	-----	1.7	1.8	2.0
821022 - 821022	1225 - 1827	-----	-----	-----	2.0	2.1	2.3
821022 - 821023	1828 - 0030	-----	-----	-----	1.7	1.9	2.0
821023 - 821023	0031 - 0633	-----	-----	-----	1.9	2.0	2.2

Table 4-C-29 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821023 - 821023	0634 - 1236	-----	-----	-----	2.1	2.1	2.2
821023 - 821023	1237 - 1839	-----	-----	-----	2.0	2.1	2.2
821023 - 821024	1840 - 0042	-----	-----	-----	1.9	1.9	2.1
821024 - 821024	0043 - 0645	-----	-----	-----	2.0	2.0	2.1
821024 - 821024	0646 - 1248	-----	-----	-----	2.0	2.0	2.1
821024 - 821024	1249 - 1851	-----	-----	-----	2.1	2.3	2.4
821024 - 821025	1852 - 0054	-----	-----	-----	2.2	2.3	2.4
821025 - 821025	0055 - 0657	-----	-----	-----	2.2	2.3	2.4
821025 - 821025	0658 - 1300	-----	-----	-----	2.0	2.1	2.3

Table 4/ 18 Datapod intragravel and surface water temperature (C) continuous record, at Slough 21-Mouth, RM 141.8, Geocode S31N02W02AAB.
Note, that time periods are six hours and three minutes in duration; accordingly, daily minimum, maximum and mean values can not be directly calculated from this data.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820917 - 820917	0604 - 1206	3.7	6.2	7.4	6.8	7.2	7.5
820917 - 820917	1207 - 1809	6.7	6.9	7.1	6.6	6.7	6.9
820917 - 820918	1810 - 0012	6.8	6.9	7.0	6.6	6.8	6.9
820918 - 820918	0013 - 0615	6.1	6.4	6.8	6.0	6.3	6.6
820918 - 820918	0616 - 1218	5.5	5.8	6.1	5.3	5.7	6.1
820918 - 820918	1219 - 1821	5.2	5.5	5.7	5.1	5.4	5.7
820918 - 820919	1822 - 0024	5.2	5.5	5.8	4.7	5.3	5.7
820919 - 820919	0025 - 0627	4.5	4.8	5.2	4.3	4.5	4.7
820919 - 820919	0628 - 1230	4.4	4.5	4.6	4.5	5.1	5.9
820919 - 820919	1231 - 1833	3.6	4.4	5.4	4.5	5.5	7.1
820919 - 820920	1834 - 0036	3.6	3.7	3.7	4.7	5.0	5.3
820920 - 820920	0037 - 0639	3.6	3.7	3.7	4.7	4.9	5.1
820920 - 820920	0640 - 1242	3.6	3.6	3.7	4.5	4.8	5.3
820920 - 820920	1243 - 1845	3.6	3.7	3.7	4.5	5.0	5.6
820920 - 820921	1846 - 0048	3.6	3.7	3.7	4.6	5.1	5.6
820921 - 820921	0049 - 0651	3.6	3.7	3.7	4.5	4.6	4.8
820921 - 820921	0652 - 1254	3.6	3.7	3.7	4.4	4.6	4.9
820921 - 820921	1255 - 1857	3.6	3.6	3.7	4.6	5.3	5.8
820921 - 820922	1858 - 0100	3.6	3.6	3.7	4.9	5.2	5.6
820922 - 820922	0101 - 0703	3.6	3.7	3.7	4.2	4.6	5.0
820922 - 820922	0704 - 1306	3.6	3.6	3.7	3.5	3.9	4.3
820922 - 820922	1307 - 1909	3.6	3.7	3.7	3.7	4.4	4.9
820922 - 820923	1910 - 0112	3.6	3.6	3.7	3.6	4.6	5.3
820923 - 820923	0113 - 0715	3.6	3.6	3.7	3.2	3.3	3.5
820923 - 820923	0716 - 1318	3.6	3.6	3.7	2.6	2.9	3.2
820923 - 820923	1319 - 1921	3.6	3.6	3.7	2.6	3.1	4.0
820923 - 820924	1922 - 0124	3.6	3.7	3.7	3.2	4.3	5.2

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Table 4-C-20 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820924 - 820924	0125 - 0727	3.6	3.6	3.7	2.5	2.7	3.2
820924 - 820924	0728 - 1330	3.6	3.6	3.7	2.3	2.4	2.6
820924 - 820924	1331 - 1933	3.6	3.6	3.7	2.4	3.4	4.7
820924 - 820925	1934 - 0136	3.6	3.6	3.7	3.5	4.2	4.9
820925 - 820925	0137 - 0739	3.6	3.6	3.7	2.9	3.1	3.5
820925 - 820925	0740 - 1342	3.6	3.7	3.7	2.6	2.8	3.1
820925 - 820925	1343 - 1945	3.6	3.6	3.7	2.6	3.7	4.7
820925 - 820926	1946 - 0148	3.6	3.6	3.7	3.7	4.1	4.5
820926 - 820926	0149 - 0751	3.6	3.7	3.7	3.2	3.5	3.6
820926 - 820926	0752 - 1354	3.6	3.7	3.7	3.2	3.3	3.4
820926 - 820926	1355 - 1957	3.6	3.6	3.7	3.4	3.9	4.3
820926 - 820927	1958 - 0200	3.6	3.7	3.7	3.5	3.8	4.2
820927 - 820927	0201 - 0803	3.6	3.6	3.7	3.5	3.5	3.5
820927 - 820927	0804 - 1406	3.6	3.6	3.6	3.4	3.4	3.5
820927 - 820927	1407 - 2009	3.6	3.7	3.7	3.5	4.2	5.0
820927 - 820928	2010 - 0212	3.6	3.6	3.7	3.0	3.9	4.6
820928 - 820928	0213 - 0815	3.6	3.6	3.7	2.6	2.7	2.9
820928 - 820928	0816 - 1418	3.6	3.7	3.7	2.4	2.5	2.8
820928 - 820928	1419 - 2021	3.6	3.7	3.7	2.9	3.7	4.2
820928 - 820929	2022 - 0224	3.6	3.6	3.7	3.4	3.6	3.9
820929 - 820929	0225 - 0827	3.6	3.7	3.7	3.3	3.4	3.4
820929 - 820929	0828 - 1430	3.7	3.7	3.7	3.3	3.3	3.5
820929 - 820929	1431 - 2033	3.6	3.7	3.7	3.5	4.2	4.8
820929 - 820930	2034 - 0236	3.6	3.7	3.7	3.5	3.9	4.6
820930 - 820930	0237 - 0839	3.6	3.7	3.7	3.4	3.5	3.6
820930 - 820930	0840 - 1442	3.6	3.7	3.7	3.4	3.4	3.6
820930 - 820930	1443 - 2045	3.6	3.7	3.7	3.7	4.4	5.1
820930 - 821001	2046 - 0248	3.6	3.7	3.7	3.5	3.9	4.7

4-C-142

Table 11-20 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821001 - 821001	0249 - 0851	3.6	3.7	3.7	3.4	3.4	3.5
821001 - 821001	0852 - 1454	3.6	3.7	3.7	3.3	3.4	3.5
821001 - 821001	1455 - 2057	3.6	3.7	3.7	3.5	4.0	4.3
821001 - 821002	2058 - 0300	3.6	3.7	3.7	3.1	3.6	4.2
821002 - 821002	0301 - 0903	3.7	3.7	3.7	3.1	3.2	3.2
821002 - 821002	0904 - 1506	3.7	3.7	3.7	3.0	3.2	3.6
821002 - 821002	1507 - 2109	3.6	3.6	3.7	3.7	4.3	4.6
821002 - 821003	2110 - 0312	3.6	3.7	3.7	3.3	3.6	4.2
821003 - 821003	0313 - 0915	3.7	3.7	3.7	2.8	3.0	3.3
821003 - 821003	0916 - 1518	3.7	3.7	3.7	3.0	3.1	3.5
821003 - 821003	1519 - 2121	3.6	3.7	3.7	3.6	4.1	4.5
821003 - 821004	2122 - 0324	3.1	3.7	3.7	2.8	3.4	4.2
821004 - 821004	0325 - 0927	2.6	2.8	3.1	2.3	2.6	2.9
821004 - 821004	0928 - 1530	2.4	2.6	2.8	2.2	2.3	2.5
821004 - 821004	1531 - 2133	2.8	3.6	4.5	2.4	3.3	4.3
821004 - 821005	2134 - 0336	2.7	3.2	4.2	2.4	2.9	3.9
821005 - 821005	0337 - 0939	2.7	2.9	3.1	2.4	2.5	2.6
821005 - 821005	0940 - 1542	2.6	2.8	3.0	2.2	2.3	2.6
821005 - 821005	1543 - 2145	2.8	3.2	3.8	2.4	2.8	3.5
821005 - 821006	2146 - 0348	2.5	2.8	3.7	2.1	2.4	3.5
821006 - 821006	0349 - 0951	2.4	2.5	2.7	2.0	2.1	2.2
821006 - 821006	0952 - 1554	2.4	2.7	3.3	2.0	2.3	3.0
821006 - 821006	1555 - 2157	3.2	3.7	3.9	2.8	3.4	3.7
821006 - 821007	2158 - 0400	2.9	3.1	3.5	2.6	2.8	3.3
821007 - 821007	0401 - 1003	2.7	2.8	3.0	2.4	2.5	2.6
821007 - 821007	1004 - 1606	2.7	2.9	3.1	2.3	2.6	2.7
821007 - 821007	1607 - 2209	3.0	3.4	3.8	2.6	3.1	3.6
821007 - 821008	2210 - 0412	2.7	3.1	3.4	2.4	2.8	3.1

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Table 4.6 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821008 - 821008	0413 - 1015	2.6	2.8	3.0	2.2	2.5	2.7
821008 - 821008	1016 - 1618	2.8	3.0	3.6	2.5	2.7	3.4
821008 - 821008	1619 - 2221	3.3	3.8	4.1	3.0	3.6	3.9
821008 - 821009	2222 - 0424	1.9	2.8	3.3	1.5	2.4	3.0
821009 - 821009	0425 - 1027	2.0	2.4	2.8	1.5	2.0	2.5
821009 - 821009	1028 - 1630	2.8	3.1	3.6	2.5	2.8	3.4
821009 - 821009	1631 - 2233	3.4	3.7	3.9	3.1	3.5	3.7
821009 - 821010	2234 - 0436	3.1	3.2	3.4	2.7	2.8	3.1
821010 - 821010	0437 - 1039	3.0	3.1	3.2	2.7	2.7	2.8
821010 - 821010	1040 - 1642	3.0	3.3	3.6	2.6	2.9	3.5
821010 - 821010	1643 - 2245	3.0	3.4	3.6	2.6	3.1	3.4
821010 - 821011	2246 - 0448	2.8	2.9	3.0	2.5	2.6	2.7
821011 - 821011	0449 - 1051	2.6	2.8	2.9	2.3	2.4	2.5
821011 - 821011	1052 - 1654	2.7	2.9	3.2	2.3	2.5	2.9
821011 - 821011	1655 - 2257	1.7	3.1	3.5	1.2	2.8	3.3
821011 - 821012	2258 - 0500	2.2	2.8	3.1	1.6	2.4	2.7
821012 - 821012	0501 - 1103	2.3	2.6	3.0	1.8	2.2	2.6
821012 - 821012	1104 - 1706	2.6	2.9	3.5	2.2	2.6	3.3
821012 - 821012	1707 - 2309	3.3	3.5	3.6	3.0	3.2	3.3
821012 - 821013	2310 - 0512	2.2	3.0	3.3	1.7	2.6	3.0
821013 - 821013	0513 - 1115	2.8	2.9	3.0	2.4	2.5	2.6
821013 - 821013	1116 - 1718	2.9	3.0	3.2	2.6	2.7	2.8
821013 - 821013	1719 - 2321	2.8	3.1	3.4	2.4	2.8	3.1
821013 - 821014	2322 - 0524	2.7	2.9	3.0	2.3	2.5	2.6
821014 - 821014	0525 - 1127	2.4	2.7	2.8	1.9	2.3	2.4
821014 - 821014	1128 - 1730	2.3	2.9	3.6	1.8	2.5	3.3
821014 - 821014	1731 - 2333	2.6	3.4	3.9	2.1	3.1	3.7
821014 - 821015	2334 - 0536	2.1	2.3	2.6	1.5	1.7	2.1

Table 4 - 10 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821015 - 821015	0537 - 1139	1.8	1.9	2.1	1.2	1.3	1.5
821015 - 821015	1140 - 1742	1.7	2.0	2.6	1.1	1.4	1.8
821015 - 821015	1743 - 2345	2.4	2.7	2.9	1.6	2.0	2.4
821015 - 821016	2346 - 0548	2.3	2.3	2.4	1.5	1.6	1.6
821016 - 821016	0549 - 1151	2.4	2.6	2.7	1.6	2.0	2.2
821016 - 821016	1152 - 1754	2.6	2.8	2.9	1.9	2.3	2.5
821016 - 821016	1755 - 2357	2.6	2.8	3.0	1.9	2.2	2.5
821016 - 821017	2358 - 0600	2.5	2.8	3.0	1.9	2.2	2.5
821017 - 821017	0601 - 1203	2.8	3.0	3.1	2.3	2.5	2.6
821017 - 821017	1204 - 1806	3.0	3.4	3.8	2.6	3.0	3.6
821017 - 821018	1807 - 0009	2.6	3.2	3.5	1.9	2.7	3.2
821018 - 821018	0010 - 0612	2.3	2.4	2.6	1.6	1.7	1.9
821018 - 821018	0613 - 1215	2.2	2.3	2.3	1.5	1.5	1.6
821018 - 821018	1216 - 1818	2.3	2.8	3.3	1.6	2.2	2.8
821018 - 821019	1819 - 0021	2.7	2.9	3.1	2.1	2.4	2.6
821019 - 821019	0022 - 0624	2.7	2.8	3.0	2.1	2.3	2.5
821019 - 821019	0625 - 1227	2.1	2.7	3.0	1.3	2.1	2.5
821019 - 821019	1228 - 1830	2.1	2.7	3.3	1.3	2.1	2.9
821019 - 821020	1831 - 0033	2.7	3.2	3.5	2.2	2.7	3.0
821020 - 821020	0034 - 0636	2.4	2.7	2.9	1.8	2.1	2.4
821020 - 821020	0637 - 1239	2.3	2.6	2.7	1.6	1.9	2.1
821020 - 821020	1240 - 1842	2.2	2.7	3.0	1.6	2.1	2.5
821020 - 821021	1843 - 0045	2.0	2.5	2.9	1.3	1.9	2.4
821021 - 821021	0046 - 0648	1.7	1.9	2.0	.9	1.1	1.2
821021 - 821021	0649 - 1251	1.7	1.8	1.9	.9	1.0	1.1
821021 - 821021	1252 - 1854	1.8	2.0	2.2	1.0	1.2	1.5
821021 - 821022	1855 - 0057	1.5	1.7	2.0	.6	.8	1.1

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Table 4-5-53 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821022 - 821022	0058 - 0700	1.5	1.6	1.7	.6	.7	.8
821022 - 821022	0701 - 1303	1.5	1.7	1.9	.6	.8	1.0
821022 - 821022	1304 - 1906	1.8	2.1	2.3	.9	1.3	1.5
821022 - 821023	1907 - 0109	1.7	3.5	3.6	.9	1.2	1.4
821023 - 821023	0110 - 0712	3.6	3.6	3.6	.9	1.0	1.1
821023 - 821023	0713 - 1315	3.6	3.6	3.6	.9	.9	1.0
821023 - 821023	1316 - 1918	3.6	3.6	3.7	.8	1.0	1.2
821023 - 821024	1919 - 0121	3.6	3.6	3.6	.6	.9	1.1
821024 - 821024	0122 - 0724	3.6	3.6	3.7	.3	.5	.8
821024 - 821024	0725 - 1327	3.6	3.6	3.6	.8	1.1	1.2
821024 - 821024	1328 - 1930	3.6	3.6	3.7	1.1	1.4	1.9
821024 - 821025	1931 - 0133	3.6	3.6	3.7	.8	1.4	1.9
821025 - 821025	0134 - 0736	3.6	3.7	3.7	.7	.9	1.0
821025 - 821025	0737 - 1339	3.7	3.7	3.7	.8	1.1	1.3

Table 4 / Datapod intragravel and surface water temperature (C) continuous record, at Slough 21-Upper, RM 142.0, Geocode S32N02W36CCC.
Note, that time periods are six hours and three minutes in duration; accordingly, daily minimum, maximum and mean values can not be directly calculated from this data.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820821 - 820821	0604 - 1206	3.7	3.7	3.8	4.1	4.3	4.7
820821 - 820821	1207 - 1809	3.7	3.7	3.8	4.2	4.7	6.6
820821 - 820822	1810 - 0012	3.7	3.7	3.8	6.6	7.4	8.0
820822 - 820822	0013 - 0615	3.7	3.7	3.8	4.6	5.2	6.6
820822 - 820822	0616 - 1218	3.7	3.7	3.8	4.0	4.2	4.6
820822 - 820822	1219 - 1821	3.7	3.7	3.8	4.0	4.6	6.8
820822 - 820823	1822 - 0024	3.7	3.7	3.8	6.3	7.2	7.7
820823 - 820823	0025 - 0627	3.7	3.7	3.8	5.1	5.5	6.3
820823 - 820823	0628 - 1230	3.7	3.8	3.8	4.9	5.0	5.1
820823 - 820823	1231 - 1833	3.7	3.7	3.8	4.9	5.4	6.0
820823 - 820824	1834 - 0036	3.7	3.7	3.8	5.9	6.5	7.0
820824 - 820824	0037 - 0639	3.7	3.8	3.8	4.8	5.1	5.8
820824 - 820824	0640 - 1242	3.7	3.8	3.9	4.7	4.8	4.9
820824 - 820824	1243 - 1845	3.8	4.0	4.3	4.8	5.5	6.9
820824 - 820825	1846 - 0048	4.1	4.3	4.4	6.4	7.2	7.7
820825 - 820825	0049 - 0651	3.9	4.0	4.2	5.1	5.5	6.5
820825 - 820825	0652 - 1254	3.9	4.0	4.0	4.9	5.1	5.2
820825 - 820825	1255 - 1857	3.9	4.1	4.3	5.0	6.0	7.0
820825 - 820826	1858 - 0100	4.2	4.4	4.6	6.1	7.4	8.2
820826 - 820826	0101 - 0703	4.0	4.1	4.2	5.1	5.5	6.1
820826 - 820826	0704 - 1306	4.0	4.0	4.1	5.0	5.1	5.2
820826 - 820826	1307 - 1909	3.9	4.2	4.5	5.1	6.2	7.7
820826 - 820827	1910 - 0112	4.2	4.4	4.6	6.1	7.6	8.4
820827 - 820827	0113 - 0715	3.9	4.0	4.2	4.5	5.1	6.0
820827 - 820827	0716 - 1318	3.8	3.9	4.0	4.0	4.2	4.5
820827 - 820827	1319 - 1921	3.8	4.0	4.4	4.1	5.3	7.6
820827 - 820828	1922 - 0124	4.1	4.3	4.6	5.6	7.4	8.4

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Table 4-10 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820828 - 820828	0125 - 0727	3.8	4.0	4.1	4.4	4.8	5.6
820828 - 820828	0728 - 1330	3.8	3.9	3.9	4.3	4.5	4.7
820828 - 820828	1331 - 1933	3.8	4.0	4.2	4.7	5.3	6.4
820828 - 820829	1934 - 0136	4.1	4.2	4.3	5.7	6.5	7.2
820829 - 820829	0137 - 0739	3.9	4.0	4.1	4.8	5.0	5.6
820829 - 820829	0740 - 1342	3.8	3.9	4.0	4.7	4.7	4.9
820829 - 820829	1343 - 1945	3.9	4.0	4.2	4.9	5.6	6.3
820829 - 820830	1946 - 0148	4.0	4.1	4.2	5.3	6.0	6.3
820830 - 820830	0149 - 0751	3.9	4.0	4.0	4.8	5.0	5.2
820830 - 820830	0752 - 1354	3.9	4.0	4.0	4.8	4.9	4.9
820830 - 820830	1355 - 1957	3.9	4.0	4.1	4.9	5.3	5.5
820830 - 820831	1958 - 0200	3.9	4.0	4.1	5.0	5.5	5.6
820831 - 820831	0201 - 0803	3.8	3.9	4.0	4.7	4.8	5.0
820831 - 820831	0804 - 1406	3.9	3.9	4.0	4.6	4.7	4.9
820831 - 820831	1407 - 2009	3.9	4.0	4.2	4.9	5.6	6.6
820831 - 820901	2010 - 0212	3.9	4.1	4.3	4.9	6.1	6.8
820901 - 820901	0213 - 0815	3.9	3.9	4.0	4.7	4.8	5.0
820901 - 820901	0816 - 1418	3.8	3.9	4.0	4.7	4.8	5.3
820901 - 820901	1419 - 2021	4.0	4.2	4.3	5.3	6.3	7.0
820901 - 820902	2022 - 0224	3.9	4.1	4.3	4.8	6.0	7.0
820902 - 820902	0225 - 0827	3.9	3.9	4.0	4.6	4.7	4.8
820902 - 820902	0828 - 1430	3.8	3.9	3.9	4.5	4.6	4.8
820902 - 820902	1431 - 2033	3.9	4.1	4.3	4.9	6.1	7.2
820902 - 820903	2034 - 0236	4.0	4.1	4.3	5.2	6.2	7.1
820903 - 820903	0237 - 0839	3.9	4.0	4.0	4.8	4.9	5.2
820903 - 820903	0840 - 1442	3.9	3.9	3.9	4.7	4.8	4.9
820903 - 820903	1443 - 2045	3.9	4.0	4.1	4.9	5.5	6.5
820903 - 820904	2046 - 0248	3.8	4.0	4.1	4.7	5.6	6.5

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Table 4.1.1 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820904 - 820904	0249 - 0851	3.8	3.9	3.9	4.4	4.5	4.7
820904 - 820904	0852 - 1454	3.8	3.9	3.9	4.3	4.5	4.8
820904 - 820904	1455 - 2057	3.8	4.0	4.1	4.8	5.7	6.8
820904 - 820905	2058 - 0300	3.8	4.0	4.1	4.6	5.6	6.8
820905 - 820905	0301 - 0903	3.8	3.9	3.9	4.1	4.3	4.6
820905 - 820905	0904 - 1506	3.8	3.9	3.9	4.3	4.5	5.0
820905 - 820905	1507 - 2109	3.8	3.9	4.1	5.0	5.6	6.4
820905 - 820906	2110 - 0312	3.9	4.0	4.1	4.9	5.5	6.4
820906 - 820906	0313 - 0915	3.9	3.9	3.9	4.7	4.8	5.0
820906 - 820906	0916 - 1518	3.8	3.9	3.9	4.6	4.7	4.9
820906 - 820906	1519 - 2121	3.9	3.9	4.0	4.9	5.5	5.9
820906 - 820907	2122 - 0324	3.8	3.9	4.0	4.5	5.1	5.7
820907 - 820907	0325 - 0927	3.8	3.8	3.9	4.5	4.5	4.6
820907 - 820907	0928 - 1530	3.8	3.8	4.0	4.5	4.7	5.6
820907 - 820907	1531 - 2133	3.9	4.0	4.1	5.7	6.5	7.3
820907 - 820908	2134 - 0336	3.9	3.9	4.1	4.8	5.4	6.8
820908 - 820908	0337 - 0939	3.8	3.9	3.9	4.6	4.7	4.8
820908 - 820908	0940 - 1542	3.8	3.9	3.9	4.5	4.7	5.1
820908 - 820908	1543 - 2145	3.9	3.9	4.0	5.1	5.7	6.0
820908 - 820909	2146 - 0348	3.8	3.9	4.0	4.7	5.0	5.6
820909 - 820909	0349 - 0951	3.8	3.9	3.9	4.6	4.6	4.7
820909 - 820909	0952 - 1554	3.8	3.9	3.9	4.6	4.7	5.0
820909 - 820909	1555 - 2157	3.9	4.0	4.1	5.1	5.9	6.6
820909 - 820910	2158 - 0400	3.8	3.9	4.0	4.5	5.0	5.9
820910 - 820910	0401 - 1003	3.8	3.9	3.9	4.4	4.5	4.6
820910 - 820910	1004 - 1606	3.8	3.8	3.9	4.3	4.6	5.4
820910 - 820910	1607 - 2209	3.9	3.9	4.0	5.4	5.9	6.3
820910 - 820911	2210 - 0412	3.8	3.9	3.9	4.4	4.8	5.7

Table 4-15 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820911 - 820911	0413 - 1015	3.8	3.9	3.9	4.2	4.3	4.4
820911 - 820911	1016 - 1618	3.8	3.8	3.9	4.2	4.4	4.7
820911 - 820911	1619 - 2221	3.8	3.8	3.9	4.7	4.9	5.1
820911 - 820912	2222 - 0424	3.8	3.8	3.9	4.2	4.5	4.9
820912 - 820912	0425 - 1027	3.8	3.8	3.9	3.8	4.1	4.2
820912 - 820912	1028 - 1630	3.7	3.8	3.9	3.6	3.6	3.9
820912 - 820912	1631 - 2233	3.7	3.8	3.9	3.9	5.3	6.1
820912 - 820913	2234 - 0436	3.8	3.8	3.9	4.3	4.5	5.1
820913 - 820913	0437 - 1039	3.8	3.8	3.8	4.2	4.3	4.3
820913 - 820913	1040 - 1642	3.8	3.8	3.9	4.2	4.3	4.6
820913 - 820913	1643 - 2245	3.8	3.8	3.9	4.7	5.1	5.7
820913 - 820914	2246 - 0448	3.8	3.9	3.9	4.6	4.7	4.9
820914 - 820914	0449 - 1051	3.8	3.9	3.9	4.5	4.6	4.7
820914 - 820914	1052 - 1654	3.8	3.8	3.9	4.5	4.7	5.6
820914 - 820914	1655 - 2257	3.8	3.8	3.9	5.0	5.3	5.6
820914 - 820915	2258 - 0500	3.8	3.8	3.9	4.8	4.9	5.1
820915 - 820915	0501 - 1103	3.9	3.9	3.9	4.8	4.8	4.9
820915 - 820915	1104 - 1706	3.8	5.0	5.8	4.9	6.5	7.4
820915 - 820915	1707 - 2309	5.6	5.8	6.0	7.4	7.6	7.8
820915 - 820916	2310 - 0512	5.8	6.0	6.2	7.7	8.0	8.2
820916 - 820916	0513 - 1115	5.9	6.1	6.3	8.0	8.1	8.3
820916 - 820916	1116 - 1718	5.6	6.2	6.9	7.8	7.9	8.1
820916 - 820916	1719 - 2321	6.8	7.3	7.5	7.8	7.9	8.0
820916 - 820917	2322 - 0524	7.2	7.4	7.5	7.8	7.8	7.9
820917 - 820917	0525 - 1127	6.0	6.9	7.4	7.2	7.5	7.8
820917 - 820917	1128 - 1730	5.8	6.6	6.9	7.0	7.1	7.3
820917 - 820917	1731 - 2333	5.8	6.3	6.5	7.0	7.2	7.3
820917 - 820918	2334 - 0536	5.3	5.6	5.9	6.6	6.8	7.0

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Table 4-15, Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820918 - 820918	0537 - 1139	4.6	5.0	5.3	5.6	6.1	6.6
820918 - 820918	1140 - 1742	4.5	4.6	4.8	5.4	5.7	6.2
820918 - 820918	1743 - 2345	4.4	4.6	4.8	5.2	5.7	6.2
820918 - 820919	2346 - 0548	4.1	4.3	4.4	4.6	4.8	5.2
820919 - 820919	0549 - 1151	4.0	4.1	4.1	4.3	4.5	4.6
820919 - 820919	1152 - 1754	4.0	4.2	4.3	4.4	4.7	5.0
820919 - 820919	1755 - 2357	4.2	4.3	4.4	4.8	5.0	5.1
820919 - 820920	2358 - 0600	4.1	4.1	4.2	4.4	4.5	4.8
820920 - 820920	0601 - 1203	4.0	4.1	4.1	4.3	4.3	4.5
820920 - 820920	1204 - 1806	4.0	4.2	4.5	4.3	4.8	5.4
820920 - 820921	1807 - 0009	4.2	4.4	4.5	4.7	5.1	5.4
820921 - 820921	0010 - 0612	4.0	4.1	4.2	4.3	4.5	4.7
820921 - 820921	0613 - 1215	3.9	4.0	4.1	4.1	4.2	4.3
820921 - 820921	1216 - 1818	4.0	4.2	4.4	4.1	4.7	5.3
820921 - 820922	1819 - 0021	4.1	4.3	4.4	4.6	4.9	5.1
820922 - 820922	0022 - 0624	4.0	4.1	4.2	4.2	4.4	4.6
820922 - 820922	0625 - 1227	3.8	3.9	4.0	3.8	4.0	4.2
820922 - 820922	1228 - 1830	3.9	4.2	4.4	3.9	4.6	5.1
820922 - 820923	1831 - 0033	3.9	4.3	4.5	4.1	4.9	5.5
820923 - 820923	0034 - 0636	3.7	3.8	4.0	3.5	3.7	4.0
820923 - 820923	0637 - 1239	3.5	3.6	3.8	2.9	3.2	3.5
820923 - 820923	1240 - 1842	3.5	3.8	4.4	3.0	3.6	5.1
820923 - 820924	1843 - 0045	3.8	4.2	4.4	3.6	4.6	5.2
820924 - 820924	0046 - 0648	3.5	3.6	3.8	2.8	3.1	3.6
820924 - 820924	0649 - 1251	3.3	3.4	3.5	2.6	2.7	2.8
820924 - 820924	1252 - 1854	3.4	3.8	4.4	2.7	3.8	5.0
820924 - 820925	1855 - 0057	3.8	4.1	4.3	3.8	4.3	4.9

4-C-151

Table 4-15, Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
820925 - 820925	0058 - 0700	3.6	3.7	3.9	3.2	3.4	3.8
820925 - 820925	0701 - 1303	3.4	3.5	3.7	2.7	3.0	3.3
820925 - 820925	1304 - 1906	3.5	3.9	4.2	2.9	3.9	4.6
820925 - 820926	1907 - 0109	3.9	4.0	4.2	3.9	4.2	4.6
820926 - 820926	0110 - 0712	3.7	3.8	3.9	3.5	3.7	3.9
820926 - 820926	0713 - 1315	3.7	3.7	3.8	3.5	3.5	3.6
820926 - 820926	1316 - 1918	3.8	4.0	4.1	3.6	4.0	4.3
820926 - 820927	1919 - 0121	3.8	4.0	4.1	3.8	4.0	4.3
820927 - 820927	0122 - 0724	3.8	3.9	3.9	3.6	3.7	3.8
820927 - 820927	0725 - 1327	3.8	3.8	3.9	3.6	3.6	3.7
820927 - 820927	1328 - 1930	3.8	4.1	4.3	3.7	4.3	4.8
820927 - 820928	1931 - 0133	3.7	3.9	4.2	3.3	4.0	4.6
820928 - 820928	0134 - 0736	3.5	3.5	3.7	2.8	3.0	3.3
820928 - 820928	0737 - 1339	3.5	3.5	3.6	2.6	2.8	3.2
820928 - 820928	1340 - 1942	3.6	3.9	4.0	3.2	3.8	4.1
820928 - 820929	1943 - 0145	3.8	3.8	3.9	3.6	3.7	3.9
820929 - 820929	0146 - 0748	3.7	3.8	3.8	3.4	3.5	3.6
820929 - 820929	0749 - 1351	3.7	3.7	3.8	3.4	3.5	3.6
820929 - 820929	1352 - 1954	3.8	4.0	4.2	3.6	4.2	4.6
820929 - 820930	1955 - 0157	3.9	4.0	4.1	3.8	4.0	4.5
820930 - 820930	0158 - 0800	3.8	3.9	3.9	3.6	3.7	3.8
820930 - 820930	0801 - 1403	3.8	3.8	3.9	3.5	3.6	3.8
820930 - 820930	1404 - 2006	3.9	4.1	4.3	3.7	4.4	4.9
820930 - 821001	2007 - 0209	3.9	4.0	4.2	3.8	4.1	4.6
821001 - 821001	0210 - 0812	3.8	3.8	3.9	3.6	3.6	3.8
821001 - 821001	0813 - 1415	3.8	3.8	3.9	3.5	3.6	3.8
821001 - 821001	1416 - 2018	3.9	4.0	4.1	3.8	4.1	4.3
821001 - 821002	2019 - 0221	3.8	3.9	4.1	3.5	3.7	4.2

Table 1 - Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821002 - 821002	0222 - 0824	3.7	3.7	3.8	3.3	3.4	3.5
821002 - 821002	0825 - 1427	3.7	3.8	3.9	3.3	3.4	3.8
821002 - 821002	1428 - 2030	3.9	4.1	4.2	3.8	4.3	4.6
821002 - 821003	2031 - 0233	3.8	3.9	4.1	3.6	3.8	4.3
821003 - 821003	0234 - 0836	3.6	3.7	3.8	3.1	3.3	3.6
821003 - 821003	0837 - 1439	3.7	3.7	3.9	3.2	3.4	3.8
821003 - 821003	1440 - 2042	3.9	4.1	4.2	3.8	4.2	4.6
821003 - 821004	2043 - 0245	3.7	3.8	4.0	3.3	3.6	4.1
821004 - 821004	0246 - 0848	3.5	3.6	3.7	2.6	2.9	3.3
821004 - 821004	0849 - 1451	3.5	3.5	3.6	2.5	2.6	2.8
821004 - 821004	1452 - 2054	3.5	3.9	4.1	2.8	3.7	4.4
821004 - 821005	2055 - 0257	3.5	3.6	3.9	2.8	3.1	3.8
821005 - 821005	0258 - 0900	3.5	3.5	3.6	2.7	2.8	2.9
821005 - 821005	0901 - 1503	3.4	3.5	3.5	2.5	2.6	2.8
821005 - 821005	1504 - 2106	3.5	3.7	3.9	2.7	3.4	3.9
821005 - 821006	2107 - 0309	3.5	3.5	3.8	2.6	2.8	3.4
821006 - 821006	0310 - 0912	3.4	3.4	3.5	2.4	2.5	2.7
821006 - 821006	0913 - 1515	3.4	3.5	3.7	2.4	2.7	3.3
821006 - 821006	1516 - 2118	3.7	3.8	3.9	3.2	3.6	3.9
821006 - 821007	2119 - 0321	3.6	3.7	3.7	2.8	3.0	3.3
821007 - 821007	0322 - 0924	3.5	3.5	3.6	2.7	2.8	2.9
821007 - 821007	0925 - 1527	3.5	3.6	3.6	2.8	2.9	3.0
821007 - 821007	1528 - 2130	3.5	3.7	3.8	2.9	3.3	3.6
821007 - 821008	2131 - 0333	3.5	3.6	3.7	2.7	3.0	3.2
821008 - 821008	0334 - 0936	3.5	3.5	3.6	2.7	2.8	3.0
821008 - 821008	0937 - 1539	3.5	3.6	3.9	2.8	3.1	3.6
821008 - 821008	1540 - 2142	3.7	3.8	3.9	3.2	3.6	3.9
821008 - 821009	2143 - 0345	3.4	3.5	3.8	2.2	2.8	3.3

Table 4-154 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821009 - 821009	0346 - 0948	3.3	3.5	3.6	2.3	2.6	2.9
821009 - 821009	0949 - 1551	3.5	3.6	3.8	2.8	3.1	3.6
821009 - 821009	1552 - 2154	3.7	3.8	3.9	3.3	3.6	3.8
821009 - 821010	2155 - 0357	3.6	3.6	3.7	3.0	3.1	3.2
821010 - 821010	0358 - 1000	3.5	3.6	3.6	3.0	3.0	3.0
821010 - 821010	1001 - 1603	3.5	3.7	3.8	2.9	3.2	3.6
821010 - 821010	1604 - 2206	3.6	3.7	3.9	3.0	3.4	3.6
821010 - 821011	2207 - 0409	3.5	3.6	3.7	2.8	2.9	3.0
821011 - 821011	0410 - 1012	3.5	3.5	3.6	2.7	2.8	2.8
821011 - 821011	1013 - 1615	3.5	3.6	3.8	2.7	2.9	3.3
821011 - 821011	1616 - 2218	3.3	3.7	3.8	2.1	3.1	3.5
821011 - 821012	2219 - 0421	3.5	3.5	3.6	2.6	2.8	3.0
821012 - 821012	0422 - 1024	3.4	3.5	3.6	2.5	2.7	2.9
821012 - 821012	1025 - 1627	3.5	3.6	3.8	2.7	3.0	3.4
821012 - 821012	1628 - 2230	3.6	3.7	3.8	3.1	3.3	3.4
821012 - 821013	2231 - 0433	3.5	3.6	3.7	2.5	3.0	3.2
821013 - 821013	0434 - 1036	3.5	3.5	3.6	2.8	2.9	2.9
821013 - 821013	1037 - 1639	3.5	3.6	3.7	2.9	3.0	3.2
821013 - 821013	1640 - 2242	3.5	3.6	3.7	2.8	3.1	3.3
821013 - 821014	2243 - 0445	3.5	3.6	3.6	2.7	2.9	2.9
821014 - 821014	0446 - 1048	3.5	3.6	3.6	2.5	2.7	2.8
821014 - 821014	1049 - 1651	3.5	3.6	3.8	2.5	3.0	3.6
821014 - 821014	1652 - 2254	3.5	3.7	3.9	2.7	3.3	3.7
821014 - 821015	2255 - 0457	3.5	3.5	3.5	2.4	2.5	2.7
821015 - 821015	0458 - 1100	3.4	3.5	3.5	2.3	2.4	2.4
821015 - 821015	1101 - 1703	3.4	3.5	3.6	2.3	2.5	2.7
821015 - 821015	1704 - 2306	3.5	3.6	3.7	2.5	2.8	3.2
821015 - 821016	2307 - 0509	3.5	3.5	3.5	2.4	2.5	2.6

4-C-154

Table 1 - Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821016 - 821016	0510 - 1112	3.5	3.5	3.6	2.6	2.7	2.8
821016 - 821016	1113 - 1715	3.5	3.6	3.7	2.7	2.8	3.0
821016 - 821016	1716 - 2318	3.5	3.6	3.7	2.7	2.8	2.9
821016 - 821017	2319 - 0521	3.5	3.5	3.6	2.6	2.8	2.9
821017 - 821017	0522 - 1124	3.5	3.6	3.7	2.8	2.9	3.0
821017 - 821017	1125 - 1727	3.6	3.8	3.9	2.9	3.3	3.7
821017 - 821017	1728 - 2330	3.5	3.7	3.8	2.6	3.1	3.5
821017 - 821018	2331 - 0533	3.5	3.5	3.5	2.5	2.5	2.7
821018 - 821018	0534 - 1136	3.5	3.5	3.6	2.4	2.5	2.6
821018 - 821018	1137 - 1739	3.5	3.6	3.7	2.5	2.9	3.3
821018 - 821018	1740 - 2342	3.5	3.6	3.7	2.7	2.9	3.2
821018 - 821019	2343 - 0545	3.5	3.6	3.6	2.7	2.8	2.9
821019 - 821019	0546 - 1148	3.4	3.6	3.7	2.3	2.7	2.9
821019 - 821019	1149 - 1751	3.5	3.6	3.7	2.4	2.8	3.2
821019 - 821019	1752 - 2354	3.5	3.6	3.8	2.7	3.0	3.2
821019 - 821020	2355 - 0557	3.5	3.5	3.6	2.5	2.7	2.9
821020 - 821020	0558 - 1200	3.4	3.5	3.5	2.5	2.7	2.7
821020 - 821020	1201 - 1803	3.5	3.5	3.6	2.6	2.8	3.0
821020 - 821021	1804 - 0006	3.4	3.5	3.6	2.3	2.7	3.0
821021 - 821021	0007 - 0609	3.3	3.4	3.5	2.2	2.3	2.5
821021 - 821021	0610 - 1212	3.3	3.4	3.5	2.2	2.3	2.4
821021 - 821021	1213 - 1815	3.4	3.5	3.5	2.3	2.5	2.6
821021 - 821022	1816 - 0018	3.4	3.5	3.5	2.1	2.3	2.5
821022 - 821022	0019 - 0621	3.4	3.5	3.5	2.1	2.2	2.3
821022 - 821022	0622 - 1224	3.4	3.5	3.5	2.1	2.3	2.4
821022 - 821022	1225 - 1827	3.5	3.5	3.6	2.3	2.5	2.7
821022 - 821023	1828 - 0030	3.4	3.5	3.5	2.2	2.4	2.6
821023 - 821023	0031 - 0633	3.3	3.5	3.5	2.1	2.3	2.5

Table 4-18 Cont.

DATE PERIOD	TIME PERIOD	INTRAGRAVEL			SURFACE WATER		
		MIN	MEAN	MAX	MIN	MEAN	MAX
821023 - 821023	0634 - 1236	3.3	3.5	3.5	2.1	2.3	2.5
821023 - 821023	1237 - 1839	3.4	3.5	3.5	2.2	2.4	2.5
821023 - 821024	1840 - 0042	3.4	3.4	3.5	2.1	2.3	2.4
821024 - 821024	0043 - 0645	3.3	3.4	3.5	1.9	2.1	2.4
821024 - 821024	0646 - 1248	3.4	3.5	3.5	2.2	2.4	2.6
821024 - 821024	1249 - 1851	3.4	3.5	3.6	2.4	2.6	2.7
821024 - 821025	1852 - 0054	3.3	3.4	3.5	2.0	2.4	2.7
821025 - 821025	0055 - 0657	3.3	3.4	3.5	2.0	2.3	2.4
821025 - 821025	0658 - 1300	3.4	3.4	3.5	2.1	2.3	2.5

Table 7 Mean intragravel and surface water temperature (C) datapod data summary, at Slough 8A-Mouth, RM 125.4, Geocode S30N03W30BCD. A two part linear equation interpolation method was used in order to "correct" readings from actual six hour and three minute time intervals to six hour intervals.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	----	----	----	----	----	----	6.8	11.4
0601 - 1200	----	----	----	----	----	----	6.8	10.2
1201 - 1800	----	----	----	----	----	----	6.8	9.9
1801 - 2400	----	----	----	----	----	----	6.8	11.7
DAILY VALUE	----	----	----	----	----	----	6.8	10.8
0001 - 0600	----	----	----	----	----	----	6.8	11.4
0601 - 1200	----	----	----	----	----	----	6.8	10.0
1201 - 1800	----	----	----	----	----	----	6.8	10.1
1801 - 2400	----	----	----	----	----	----	6.9	12.8
DAILY VALUE	----	----	----	----	----	----	6.8	11.1
0001 - 0600	----	----	----	----	----	----	7.0	12.3
0601 - 1200	----	----	----	----	----	----	6.9	9.9
1201 - 1800	----	----	----	----	----	----	6.7	9.7
1801 - 2400	----	----	----	----	----	----	6.8	12.4
DAILY VALUE	----	----	----	----	----	----	6.8	11.1
0001 - 0600	----	----	----	----	----	----	6.8	12.0
0601 - 1200	----	----	----	----	----	----	6.7	9.7
1201 - 1800	----	----	----	----	----	----	6.7	9.0
1801 - 2400	----	----	----	----	----	----	6.7	10.4
DAILY VALUE	----	----	----	----	----	----	6.7	10.2
0001 - 0600	----	----	----	----	----	----	6.7	10.5
0601 - 1200	----	----	----	----	----	----	6.6	9.4
1201 - 1800	----	----	----	----	----	----	6.6	9.1
1801 - 2400	----	----	----	----	6.6	13.6	6.6	9.7
DAILY VALUE	----	----	----	----	----	----	6.6	9.7
0001 - 0600	----	----	----	----	6.8	11.7	6.6	9.6
0601 - 1200	----	----	----	----	6.7	9.1	6.6	9.0
1201 - 1800	----	----	----	----	6.6	9.7	6.5	8.6
1801 - 2400	----	----	----	----	6.7	13.6	6.5	8.7
DAILY VALUE	----	----	----	----	6.7	11.0	6.5	9.0
0001 - 0600	----	----	----	----	6.8	12.0	6.6	8.6
0601 - 1200	----	----	----	----	6.7	10.5	6.6	8.2
1201 - 1800	----	----	----	----	6.6	10.4	6.6	8.1
1801 - 2400	----	----	----	----	6.7	12.0	6.6	8.7
DAILY VALUE	----	----	----	----	6.7	11.2	6.6	8.4
0001 - 0600	----	----	----	----	6.7	11.1	MONTHLY VALUE	
0601 - 1200	----	----	----	----	6.6	9.8		
1201 - 1800	----	----	----	----	6.6	10.1		
1801 - 2400	----	----	----	----	6.7	12.0		
DAILY VALUE	----	----	----	----	6.6	10.7	----	----

Table / Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	6.6	8.9	6.3	8.4	6.0	7.8	6.1	4.7
0601 - 1200	6.6	8.5	6.3	8.0	6.0	7.1	6.2	4.0
1201 - 1800	6.6	8.4	6.3	7.7	6.0	6.9	6.2	4.1
1801 - 2400	6.6	9.2	6.3	8.0	6.0	6.7	6.2	4.7
DAILY VALUE	6.6	8.8	6.3	8.0	6.0	7.1	6.2	4.4
0001 - 0600	6.7	9.4	6.3	8.3	5.9	6.7	6.3	4.9
0601 - 1200	6.7	8.6	6.3	7.9	6.0	6.3	6.3	4.7
1201 - 1800	6.5	7.8	6.3	7.4	6.0	5.8	6.3	4.9
1801 - 2400	6.4	8.3	6.3	7.8	5.9	5.9	6.4	5.2
DAILY VALUE	6.6	8.5	6.3	7.8	6.0	6.2	6.3	4.9
0001 - 0600	6.4	8.8	6.3	8.3	5.9	6.7	6.4	5.1
0601 - 1200	6.4	8.4	6.3	7.7	5.9	6.3	6.4	5.0
1201 - 1800	6.3	7.8	6.2	7.0	5.9	5.7	6.4	5.1
1801 - 2400	6.3	7.8	6.2	7.0	5.9	5.8	6.4	5.4
DAILY VALUE	6.3	8.2	6.2	7.5	5.9	6.1	6.4	5.1
0001 - 0600	6.3	7.8	6.1	6.9	5.9	6.2	6.4	4.9
0601 - 1200	6.3	7.3	6.1	6.3	5.9	5.7	6.4	3.8
1201 - 1800	6.3	7.0	6.1	5.9	5.9	5.8	6.4	3.6
1801 - 2400	6.2	7.5	6.1	6.6	5.9	6.4	6.4	4.0
DAILY VALUE	6.3	7.4	6.1	6.4	5.9	6.0	6.4	4.1
0001 - 0600	6.2	8.0	6.1	7.5	5.9	6.0	6.4	4.3
0601 - 1200	6.3	7.4	6.1	6.5	5.9	5.5	6.5	4.3
1201 - 1800	6.2	7.0	6.1	6.1	5.9	5.6	6.5	4.6
1801 - 2400	6.2	7.5	6.1	6.1	5.9	6.0	6.5	5.1
DAILY VALUE	6.2	7.5	6.1	6.6	5.9	5.8	6.5	4.6
0001 - 0600	6.2	7.9	6.1	6.4	5.9	5.8	6.5	5.2
0601 - 1200	6.2	7.5	6.1	6.4	6.0	5.5	6.5	4.9
1201 - 1800	6.2	7.1	6.1	6.3	6.0	5.4	6.5	5.0
1801 - 2400	6.2	7.4	6.0	6.4	6.0	6.2	6.5	5.4
DAILY VALUE	6.2	7.5	6.1	6.4	6.0	5.7	6.5	5.1
0001 - 0600	6.3	7.6	6.0	6.7	6.0	5.4	-----	-----
0601 - 1200	6.3	7.4	6.0	6.6	6.0	4.5	-----	-----
1201 - 1800	6.2	7.4	6.0	6.6	6.0	4.5	-----	-----
1801 - 2400	6.2	8.2	6.0	7.0	6.0	5.4	-----	-----
DAILY VALUE	6.3	7.7	6.0	6.7	6.0	4.9	-----	-----
0001 - 0600	6.3	8.8	6.0	8.0	6.1	4.8	MONTHLY VALUE	
0601 - 1200	6.3	8.4	6.1	7.6	6.1	3.6		
1201 - 1800	6.3	8.0	6.0	7.4	6.0	3.6		
1801 - 2400	6.3	8.3	5.9	7.5	6.1	4.7	6.2	6.5
DAILY VALUE	6.3	8.4	6.0	7.6	6.1	4.2		

Table 4-159 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	6.5	5.3	6.2	2.4	5.7	1.3	5.1	2.4
0601 - 1200	6.5	4.9	6.2	1.8	5.7	1.4	5.0	2.5
1201 - 1800	6.5	4.7	6.2	2.1	5.7	1.7	-----	-----
1801 - 2400	6.5	4.8	6.2	2.8	5.6	2.2	-----	-----
DAILY VALUE	6.5	4.9	6.2	2.3	5.7	1.7	-----	-----
0001 - 0600	6.5	4.5	6.2	3.1	5.6	2.3	-----	-----
0601 - 1200	6.5	4.0	6.2	2.7	5.6	1.6	-----	-----
1201 - 1800	6.5	4.2	6.1	2.7	5.6	1.4	-----	-----
1801 - 2400	6.5	4.7	6.1	2.7	5.6	2.2	-----	-----
DAILY VALUE	6.5	4.3	6.2	2.8	5.6	1.9	-----	-----
0001 - 0600	6.5	4.5	6.1	2.5	5.6	2.4	-----	-----
0601 - 1200	6.4	3.8	6.1	2.1	5.6	2.0	-----	-----
1201 - 1800	6.4	3.8	6.1	1.9	5.5	1.7	-----	-----
1801 - 2400	6.5	4.2	6.1	2.0	5.5	1.4	-----	-----
DAILY VALUE	6.4	4.1	6.1	2.1	5.5	1.9	-----	-----
0001 - 0600	6.5	3.9	6.0	1.9	5.5	1.9	-----	-----
0601 - 1200	6.4	3.1	6.1	1.6	5.5	1.8	-----	-----
1201 - 1800	6.4	2.9	6.0	1.7	5.5	2.2	-----	-----
1801 - 2400	6.4	3.4	6.0	2.3	5.5	1.8	-----	-----
DAILY VALUE	6.4	3.3	6.0	1.9	5.5	1.9	-----	-----
0001 - 0600	6.4	3.1	6.0	2.2	5.4	1.4	-----	-----
0601 - 1200	6.4	2.4	6.0	1.7	5.4	1.4	-----	-----
1201 - 1800	6.4	2.4	6.0	1.4	5.4	1.7	-----	-----
1801 - 2400	6.4	2.8	5.9	1.7	5.4	1.6	-----	-----
DAILY VALUE	6.4	2.7	6.0	1.8	5.4	1.5	-----	-----
0001 - 0600	6.4	2.6	5.9	1.9	5.4	1.4	-----	-----
0601 - 1200	6.4	1.9	5.9	2.0	5.4	1.4	-----	-----
1201 - 1800	6.4	2.0	5.9	2.3	5.3	1.7	-----	-----
1801 - 2400	6.4	2.6	5.9	3.0	5.3	1.5	-----	-----
DAILY VALUE	6.4	2.3	5.9	2.3	5.4	1.5	-----	-----
0001 - 0600	6.4	2.8	5.9	2.9	5.3	1.3	-----	-----
0601 - 1200	6.3	2.5	5.9	1.9	5.3	1.5	-----	-----
1201 - 1800	6.3	2.3	5.9	1.7	5.3	1.8	-----	-----
1801 - 2400	6.3	2.2	5.9	2.0	5.2	1.8	-----	-----
DAILY VALUE	6.3	2.4	5.9	2.1	5.3	1.6	-----	-----
0001 - 0600	6.3	2.2	5.8	2.2	5.2	1.8	MONTHLY VALUE	
0601 - 1200	6.3	2.1	5.8	1.6	5.2	2.0		
1201 - 1800	6.3	2.1	5.8	1.6	5.2	2.4		
1801 - 2400	6.3	2.5	5.7	1.5	5.1	2.3	5.9	2.4
DAILY VALUE	6.3	2.2	5.8	1.7	5.2	2.1		

Table 4. Mean intragravel and surface water temperature (C) datapod data summary, at Slough 8A-Upper, RM 126.4, Geocode S30N03W20CDD. A two part linear equation interpolation method was used in order to "correct" readings from actual six hour and three minute time intervals to six hour intervals.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	-----	-----	-----	-----	-----	-----	4.8	6.4
0601 - 1200	-----	-----	-----	-----	-----	-----	4.8	5.8
1201 - 1800	-----	-----	-----	-----	-----	-----	4.8	6.0
1801 - 2400	-----	-----	-----	-----	-----	-----	4.8	6.9
DAILY VALUE	-----	-----	-----	-----	-----	-----	4.8	6.3
0001 - 0600	-----	-----	-----	-----	-----	-----	4.8	6.2
0601 - 1200	-----	-----	-----	-----	-----	-----	4.8	5.7
1201 - 1800	-----	-----	-----	-----	-----	-----	4.8	6.1
1801 - 2400	-----	-----	-----	-----	-----	-----	4.8	7.5
DAILY VALUE	-----	-----	-----	-----	-----	-----	4.8	6.4
0001 - 0600	-----	-----	-----	-----	-----	-----	4.8	6.5
0601 - 1200	-----	-----	-----	-----	-----	-----	4.8	5.4
1201 - 1800	-----	-----	-----	-----	-----	-----	4.8	5.4
1801 - 2400	-----	-----	-----	-----	-----	-----	4.9	6.8
DAILY VALUE	-----	-----	-----	-----	-----	-----	4.8	6.0
0001 - 0600	-----	-----	-----	-----	-----	-----	4.8	6.4
0601 - 1200	-----	-----	-----	-----	-----	-----	4.8	5.6
1201 - 1800	-----	-----	-----	-----	-----	-----	4.8	5.7
1801 - 2400	-----	-----	-----	-----	-----	-----	4.8	6.5
DAILY VALUE	-----	-----	-----	-----	-----	-----	4.8	6.0
0001 - 0600	-----	-----	-----	-----	-----	-----	4.8	6.3
0601 - 1200	-----	-----	-----	-----	-----	-----	4.9	5.8
1201 - 1800	-----	-----	-----	-----	-----	-----	4.9	5.9
1801 - 2400	-----	-----	-----	-----	4.8	8.3	4.9	6.2
DAILY VALUE	-----	-----	-----	-----	-----	-----	4.9	6.1
0001 - 0600	-----	-----	-----	-----	4.8	6.2	4.9	6.0
0601 - 1200	-----	-----	-----	-----	4.7	5.2	4.9	5.8
1201 - 1800	-----	-----	-----	-----	4.7	5.3	4.9	5.8
1801 - 2400	-----	-----	-----	-----	4.8	7.8	4.9	6.0
DAILY VALUE	-----	-----	-----	-----	4.7	6.1	4.9	5.9
0001 - 0600	-----	-----	-----	-----	4.8	6.4	4.9	5.9
0601 - 1200	-----	-----	-----	-----	4.8	5.9	4.9	5.7
1201 - 1800	-----	-----	-----	-----	4.8	6.2	4.9	5.8
1801 - 2400	-----	-----	-----	-----	4.8	7.0	4.9	6.0
DAILY VALUE	-----	-----	-----	-----	4.8	6.4	4.9	5.8
0001 - 0600	-----	-----	-----	-----	4.8	6.1	MONTHLY VALUE	
0601 - 1200	-----	-----	-----	-----	4.8	5.7		
1201 - 1800	-----	-----	-----	-----	4.8	5.9		
1801 - 2400	-----	-----	-----	-----	4.8	7.2		
DAILY VALUE	-----	-----	-----	-----	4.8	6.2		

Table - 4 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	4.9	5.9	5.2	6.0	5.3	7.4	5.0	5.2
0601 - 1200	4.9	5.8	5.2	5.7	5.2	6.3	5.0	4.9
1201 - 1800	4.9	6.2	5.2	5.7	5.2	6.0	5.0	5.1
1801 - 2400	4.9	6.5	5.2	6.0	5.2	5.9	5.0	5.4
DAILY VALUE	4.9	6.1	5.2	5.8	5.2	6.4	5.0	5.2
0001 - 0600	4.9	6.4	5.2	6.0	5.2	6.0	5.0	5.3
0601 - 1200	4.9	6.1	5.2	5.7	5.2	5.6	5.0	5.2
1201 - 1800	4.9	6.2	5.2	5.7	5.2	5.5	5.0	5.4
1801 - 2400	4.9	6.5	5.2	6.0	5.1	5.9	5.0	5.4
DAILY VALUE	4.9	6.3	5.2	5.9	5.2	5.7	5.0	5.3
0001 - 0600	4.9	6.5	5.2	6.1	5.2	6.3	5.0	5.3
0601 - 1200	4.9	6.2	5.3	5.7	5.1	5.8	5.0	5.2
1201 - 1800	4.9	6.2	5.3	5.6	5.1	5.5	5.0	5.4
1801 - 2400	4.9	6.4	5.3	5.8	5.1	5.7	5.0	5.4
DAILY VALUE	4.9	6.3	5.3	5.8	5.1	5.8	5.0	5.3
0001 - 0600	5.0	6.3	5.2	5.7	5.2	5.9	4.9	5.1
0601 - 1200	4.9	5.9	5.2	5.3	5.1	5.5	5.0	4.8
1201 - 1800	4.9	5.9	5.3	5.2	5.1	5.8	4.9	5.0
1801 - 2400	4.9	6.3	5.3	5.6	5.2	6.0	4.9	5.2
DAILY VALUE	4.9	6.1	5.3	5.5	5.1	5.8	4.9	5.0
0001 - 0600	5.0	6.2	5.3	6.0	5.1	5.6	4.9	5.2
0601 - 1200	4.9	5.7	5.3	5.5	5.1	5.4	4.9	5.1
1201 - 1800	5.0	5.7	5.2	5.5	5.1	5.7	4.9	5.3
1801 - 2400	5.0	6.2	5.2	5.6	5.1	5.8	4.9	5.5
DAILY VALUE	5.0	6.0	5.2	5.6	5.1	5.6	4.9	5.3
0001 - 0600	5.0	6.2	5.3	5.8	5.1	5.5	4.9	5.3
0601 - 1200	5.0	5.9	5.2	5.7	5.1	5.4	4.9	5.2
1201 - 1800	5.0	5.8	5.2	5.7	5.1	5.6	4.9	5.4
1801 - 2400	5.0	6.0	5.2	5.9	5.1	5.8	4.9	5.5
DAILY VALUE	5.0	6.0	5.2	5.8	5.1	5.6	4.9	5.3
0001 - 0600	5.0	6.0	5.3	6.1	5.1	5.2	-----	-----
0601 - 1200	5.0	5.8	5.2	6.0	5.1	4.9	-----	-----
1201 - 1800	5.1	5.9	5.2	6.0	5.1	5.3	-----	-----
1801 - 2400	5.1	6.3	5.2	6.5	5.1	5.8	-----	-----
DAILY VALUE	5.0	6.0	5.2	6.2	5.1	5.3	-----	-----
0001 - 0600	5.1	6.2	5.2	7.1	5.1	5.1	MONTHLY VALUE	
0601 - 1200	5.1	5.8	5.3	6.6	5.0	4.7		
1201 - 1800	5.1	5.7	5.3	6.2	5.0	5.2		
1801 - 2400	5.2	6.0	5.2	6.6	5.1	5.5	5.1	5.8
DAILY VALUE	5.1	5.9	5.3	6.6	5.0	5.1		

4-C-161

Table 4-1 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	4.9	5.3	4.7	4.6	4.6	4.1	4.5	3.8
0601 - 1200	4.9	5.1	4.7	4.4	4.7	4.1	4.5	3.7
1201 - 1800	4.9	5.2	4.7	4.6	4.7	4.3	-----	-----
1801 - 2400	4.9	5.2	4.7	4.9	4.6	4.6	-----	-----
DAILY VALUE	4.9	5.2	4.7	4.6	4.7	4.3	-----	-----
0001 - 0600	4.8	5.1	4.7	4.8	4.6	4.6	-----	-----
0601 - 1200	4.8	4.9	4.7	4.6	4.7	4.0	-----	-----
1201 - 1800	4.8	5.2	4.7	4.6	4.6	4.0	-----	-----
1801 - 2400	4.8	5.4	4.7	4.7	4.6	4.3	-----	-----
DAILY VALUE	4.8	5.1	4.7	4.7	4.6	4.2	-----	-----
0001 - 0600	4.8	5.1	4.7	4.6	4.6	4.4	-----	-----
0601 - 1200	4.8	4.9	4.7	4.4	4.6	4.2	-----	-----
1201 - 1800	4.8	5.0	4.7	4.4	4.6	4.1	-----	-----
1801 - 2400	4.8	5.2	4.7	4.4	4.6	4.1	-----	-----
DAILY VALUE	4.8	5.1	4.7	4.5	4.6	4.2	-----	-----
0001 - 0600	4.8	5.0	4.7	4.3	4.6	4.3	-----	-----
0601 - 1200	4.8	4.7	4.7	4.1	4.6	4.1	-----	-----
1201 - 1800	4.8	4.8	4.7	4.2	4.6	4.4	-----	-----
1801 - 2400	4.8	5.1	4.7	4.5	4.6	4.2	-----	-----
DAILY VALUE	4.8	4.9	4.7	4.3	4.6	4.2	-----	-----
0001 - 0600	4.8	4.9	4.6	4.6	4.6	3.9	-----	-----
0601 - 1200	4.8	4.6	4.7	4.3	4.6	4.0	-----	-----
1201 - 1800	4.7	4.7	4.6	4.0	4.6	4.2	-----	-----
1801 - 2400	4.7	4.9	4.6	4.1	4.6	4.1	-----	-----
DAILY VALUE	4.8	4.8	4.6	4.2	4.6	4.1	-----	-----
0001 - 0600	4.7	4.8	4.6	4.2	4.6	4.0	-----	-----
0601 - 1200	4.7	4.6	4.6	4.1	4.6	3.9	-----	-----
1201 - 1800	4.7	4.7	4.6	4.0	4.6	4.2	-----	-----
1801 - 2400	4.7	4.9	4.6	4.2	4.6	4.1	-----	-----
DAILY VALUE	4.7	4.8	4.6	4.1	4.6	4.0	-----	-----
0001 - 0600	4.7	4.9	4.6	4.4	4.6	3.9	-----	-----
0601 - 1200	4.7	4.7	4.6	3.7	4.6	3.9	-----	-----
1201 - 1800	4.7	4.7	4.6	3.8	4.6	4.1	-----	-----
1801 - 2400	4.7	4.7	4.6	4.0	4.6	4.0	-----	-----
DAILY VALUE	4.7	4.8	4.6	4.0	4.6	4.0	-----	-----
0001 - 0600	4.7	4.7	4.6	4.3	4.6	3.9	MONTHLY VALUE	
0601 - 1200	4.7	4.5	4.6	4.0	4.6	3.8		
1201 - 1800	4.7	4.6	4.7	4.1	4.6	4.0		
1801 - 2400	4.7	4.8	4.6	4.1	4.6	3.9		
DAILY VALUE	4.7	4.6	4.6	4.1	4.6	3.9		

4-2-162

Table 4-C-34/ Mean intragravel and surface water temperature (C) datapod data summary, at Slough 11, RM 135.7, Geocode S31N02W30ADC. A two part linear equation interpolation method was used in order to "correct" readings from actual six hour and three minute time intervals to six hour intervals.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	-----	-----	-----	-----	-----	-----	3.3	6.4
0601 - 1200	-----	-----	-----	-----	-----	-----	3.3	5.8
1201 - 1800	-----	-----	-----	-----	-----	-----	3.4	6.1
1801 - 2400	-----	-----	-----	-----	-----	-----	3.5	7.5
DAILY VALUE	-----	-----	-----	-----	-----	-----	3.4	6.4
0001 - 0600	-----	-----	-----	-----	-----	-----	3.6	7.3
0601 - 1200	-----	-----	-----	-----	-----	-----	3.6	6.4
1201 - 1800	-----	-----	-----	-----	-----	-----	3.7	5.7
1801 - 2400	-----	-----	-----	-----	-----	-----	3.6	4.3
DAILY VALUE	-----	-----	-----	-----	-----	-----	3.6	5.9
0001 - 0600	-----	-----	-----	-----	-----	-----	3.5	3.6
0601 - 1200	-----	-----	-----	-----	-----	-----	3.5	3.5
1201 - 1800	-----	-----	-----	-----	-----	-----	3.5	3.4
1801 - 2400	-----	-----	-----	-----	-----	-----	3.5	3.5
DAILY VALUE	-----	-----	-----	-----	-----	-----	3.5	3.5
0001 - 0600	-----	-----	-----	-----	-----	-----	3.5	3.4
0601 - 1200	-----	-----	-----	-----	-----	-----	3.5	3.5
1201 - 1800	-----	-----	-----	-----	-----	-----	3.5	3.4
1801 - 2400	-----	-----	-----	-----	-----	-----	3.5	3.4
DAILY VALUE	-----	-----	-----	-----	-----	-----	3.5	3.4
0001 - 0600	-----	-----	-----	-----	-----	-----	3.5	3.5
0601 - 1200	-----	-----	-----	-----	-----	-----	3.5	3.4
1201 - 1800	-----	-----	-----	-----	-----	-----	3.5	3.4
1801 - 2400	-----	-----	-----	-----	3.3	8.2	3.5	3.4
DAILY VALUE	-----	-----	-----	-----	-----	-----	3.5	3.4
0001 - 0600	-----	-----	-----	-----	3.3	7.7	3.5	3.4
0601 - 1200	-----	-----	-----	-----	3.3	5.7	3.5	3.4
1201 - 1800	-----	-----	-----	-----	3.3	5.7	3.5	3.4
1801 - 2400	-----	-----	-----	-----	3.3	8.1	3.5	3.4
DAILY VALUE	-----	-----	-----	-----	3.3	6.8	3.5	3.4
0001 - 0600	-----	-----	-----	-----	3.3	7.5	3.5	3.4
0601 - 1200	-----	-----	-----	-----	3.3	6.5	3.4	3.4
1201 - 1800	-----	-----	-----	-----	3.3	6.2	3.4	3.4
1801 - 2400	-----	-----	-----	-----	3.3	6.9	3.4	3.4
DAILY VALUE	-----	-----	-----	-----	3.3	6.8	3.4	3.4
0001 - 0600	-----	-----	-----	-----	3.3	6.3	MONTHLY VALUE	
0601 - 1200	-----	-----	-----	-----	3.3	5.7		
1201 - 1800	-----	-----	-----	-----	3.3	5.9		
1801 - 2400	-----	-----	-----	-----	3.3	7.1		
DAILY VALUE	-----	-----	-----	-----	3.3	6.3		

4-C-163

Table 4 - 24 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.2
0601 - 1200	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.2
1201 - 1800	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.2
1801 - 2400	3.4	3.4	3.4	3.3	3.3	3.3	3.3	3.2
DAILY VALUE	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.2
0001 - 0600	3.5	3.4	3.4	3.3	3.3	3.3	3.3	3.2
0601 - 1200	3.5	3.4	3.4	3.3	3.3	3.2	3.3	3.2
1201 - 1800	3.5	3.4	3.4	3.3	3.3	3.3	3.3	3.2
1801 - 2400	3.5	3.4	3.4	3.3	3.3	3.2	3.3	3.2
DAILY VALUE	3.5	3.4	3.4	3.3	3.3	3.2	3.3	3.2
0001 - 0600	3.5	3.4	3.4	3.3	3.3	3.2	3.3	3.2
0601 - 1200	3.5	3.4	3.4	3.3	3.3	3.2	3.3	3.2
1201 - 1800	3.4	3.4	3.4	3.3	3.3	3.2	3.3	3.2
1801 - 2400	3.4	3.4	3.4	3.3	3.3	3.2	3.3	3.2
DAILY VALUE	3.4	3.4	3.4	3.3	3.3	3.2	3.3	3.2
0001 - 0600	3.5	3.4	3.4	3.3	3.3	3.2	3.3	3.2
0601 - 1200	3.5	3.4	3.4	3.3	3.3	3.2	3.3	3.2
1201 - 1800	3.4	3.3	3.4	3.3	3.3	3.2	3.3	3.2
1801 - 2400	3.4	3.3	3.4	3.3	3.3	3.2	3.3	3.2
DAILY VALUE	3.4	3.4	3.4	3.3	3.3	3.2	3.3	3.2
0001 - 0600	3.4	3.4	3.3	3.3	3.3	3.2	3.3	3.2
0601 - 1200	3.4	3.4	3.4	3.3	3.3	3.2	3.3	3.2
1201 - 1800	3.4	3.4	3.4	3.3	3.3	3.2	3.3	3.2
1801 - 2400	3.4	3.4	3.3	3.3	3.3	3.2	3.3	3.2
DAILY VALUE	3.4	3.4	3.4	3.3	3.3	3.2	3.3	3.2
0001 - 0600	3.4	3.4	3.3	3.3	3.3	3.2	-----	-----
0601 - 1200	3.4	3.3	3.4	3.3	3.3	3.2	-----	-----
1201 - 1800	3.4	3.3	3.4	3.3	3.3	3.2	-----	-----
1801 - 2400	3.4	3.3	3.3	3.3	3.3	3.2	-----	-----
DAILY VALUE	3.4	3.3	3.4	3.3	3.3	3.2	-----	-----
0001 - 0600	3.4	3.4	3.4	3.3	3.3	3.2	MONTHLY VALUE	
0601 - 1200	3.4	3.4	3.4	3.3	3.3	3.2		
1201 - 1800	3.4	3.4	3.4	3.3	3.3	3.2		
1801 - 2400	3.4	3.4	3.4	3.3	3.3	3.2	3.4	3.3
DAILY VALUE	3.4	3.4	3.4	3.3	3.3	3.2		

4-C-164

Table 4-1-1/ Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	3.3	3.2	3.2	3.1	3.2	3.1	3.2	3.0
0601 - 1200	3.3	3.2	3.2	3.1	3.2	3.0	3.1	3.0
1201 - 1800	3.3	3.2	3.2	3.1	3.2	3.1	3.1	3.0
1801 - 2400	3.3	3.2	3.2	3.1	3.2	3.1	3.1	3.0
DAILY VALUE	3.3	3.2	3.2	3.1	3.2	3.1	3.1	3.0
0001 - 0600	3.3	3.2	3.2	3.1	3.2	3.1	3.1	3.0
0601 - 1200	3.3	3.2	3.2	3.1	3.2	3.1	3.1	3.0
1201 - 1800	3.3	3.2	3.2	3.1	3.2	3.1	3.1	3.0
1801 - 2400	3.3	3.2	3.2	3.1	3.2	3.1	3.1	3.0
DAILY VALUE	3.3	3.2	3.2	3.1	3.2	3.1	3.1	3.0
0001 - 0600	3.3	3.2	3.2	3.1	3.2	3.1	3.1	3.0
0601 - 1200	3.3	3.2	3.2	3.1	3.2	3.1	3.1	3.0
1201 - 1800	3.3	3.2	3.2	3.1	3.2	3.1	-----	-----
1801 - 2400	3.3	3.2	3.2	3.1	3.2	3.1	-----	-----
DAILY VALUE	3.3	3.2	3.2	3.1	3.2	3.1	-----	-----
0001 - 0600	3.3	3.2	3.2	3.1	3.2	3.1	-----	-----
0601 - 1200	3.3	3.2	3.2	3.1	3.2	3.1	-----	-----
1201 - 1800	3.3	3.2	3.2	3.1	3.2	3.1	-----	-----
1801 - 2400	3.3	3.2	3.2	3.1	3.2	3.1	-----	-----
DAILY VALUE	3.3	3.2	3.2	3.1	3.2	3.1	-----	-----
0001 - 0600	3.3	3.2	3.2	3.1	3.2	3.1	-----	-----
0601 - 1200	3.3	3.2	3.2	3.1	3.2	3.1	-----	-----
1201 - 1800	3.3	3.2	3.2	3.1	3.2	3.1	-----	-----
1801 - 2400	3.2	3.2	3.2	3.1	3.2	3.0	-----	-----
DAILY VALUE	3.3	3.2	3.2	3.1	3.2	3.1	-----	-----
0001 - 0600	3.2	3.1	3.2	3.1	3.1	3.0	-----	-----
0601 - 1200	3.2	3.1	3.2	3.1	3.1	3.0	-----	-----
1201 - 1800	3.2	3.1	3.2	3.1	3.1	3.0	-----	-----
1801 - 2400	3.2	3.1	3.2	3.1	3.1	3.0	-----	-----
DAILY VALUE	3.2	3.1	3.2	3.1	3.1	3.0	-----	-----
0001 - 0600	3.2	3.1	3.2	3.1	3.1	3.0	-----	-----
0601 - 1200	3.2	3.1	3.2	3.1	3.1	3.0	-----	-----
1201 - 1800	3.2	3.1	3.2	3.1	3.1	3.0	-----	-----
1801 - 2400	3.2	3.1	3.2	3.1	3.1	3.0	-----	-----
DAILY VALUE	3.2	3.1	3.2	3.1	3.1	3.0	-----	-----
0001 - 0600	3.2	3.1	3.2	3.1	3.1	3.0	MONTHLY VALUE	
0601 - 1200	3.2	3.1	3.2	3.1	3.1	3.0		
1201 - 1800	3.2	3.1	3.2	3.1	3.1	3.0		
1801 - 2400	3.2	3.1	3.2	3.1	3.1	3.0		
DAILY VALUE	3.2	3.1	3.2	3.1	3.1	3.0	3.2	3.1

4-C-165

4-11-1012x Table 4-10.35 Mean intragravel and surface water temperature (C) datapod data summary, at Slough 16B, RM 138.0, Geocode S31N02W17AAA. A two part linear equation interpolation method was used in order to "correct" readings from actual six hour and three minute time intervals to six hour intervals.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	-----	-----	-----	-----	-----	-----	6.7	6.7
0601 - 1200	-----	-----	-----	-----	-----	-----	6.2	6.0
1201 - 1800	-----	-----	-----	-----	-----	-----	6.2	6.4
1801 - 2400	-----	-----	-----	-----	-----	-----	6.9	7.5
DAILY VALUE	-----	-----	-----	-----	-----	-----	6.5	6.6
0001 - 0600	-----	-----	-----	-----	-----	-----	6.7	6.8
0601 - 1200	-----	-----	-----	-----	-----	-----	6.2	6.0
1201 - 1800	-----	-----	-----	-----	-----	-----	6.2	6.5
1801 - 2400	-----	-----	-----	-----	-----	-----	6.9	7.6
DAILY VALUE	-----	-----	-----	-----	-----	-----	6.5	6.7
0001 - 0600	-----	-----	-----	-----	-----	-----	6.7	6.6
0601 - 1200	-----	-----	-----	-----	-----	-----	5.6	5.0
1201 - 1800	-----	-----	-----	-----	-----	-----	5.2	5.0
1801 - 2400	-----	-----	-----	-----	-----	-----	6.1	6.6
DAILY VALUE	-----	-----	-----	-----	-----	-----	5.9	5.8
0001 - 0600	-----	-----	-----	-----	-----	-----	6.0	6.1
0601 - 1200	-----	-----	-----	-----	-----	-----	5.3	5.0
1201 - 1800	-----	-----	-----	-----	-----	-----	5.2	5.2
1801 - 2400	-----	-----	-----	-----	-----	-----	6.0	6.3
DAILY VALUE	-----	-----	-----	-----	-----	-----	5.6	5.7
0001 - 0600	-----	-----	-----	-----	-----	-----	6.1	6.3
0601 - 1200	-----	-----	-----	-----	-----	-----	5.7	5.6
1201 - 1800	-----	-----	-----	-----	-----	-----	5.7	5.8
1801 - 2400	-----	-----	-----	-----	6.1	7.7	6.2	6.3
DAILY VALUE	-----	-----	-----	-----	-----	-----	5.9	6.0
0001 - 0600	-----	-----	-----	-----	6.2	6.3	6.1	6.1
0601 - 1200	-----	-----	-----	-----	5.3	4.7	5.8	5.7
1201 - 1800	-----	-----	-----	-----	4.9	5.0	5.7	5.8
1801 - 2400	-----	-----	-----	-----	6.1	7.4	5.9	6.1
DAILY VALUE	-----	-----	-----	-----	5.6	5.9	5.9	5.9
0001 - 0600	-----	-----	-----	-----	6.3	6.6	6.0	6.0
0601 - 1200	-----	-----	-----	-----	5.8	5.8	5.8	5.6
1201 - 1800	-----	-----	-----	-----	5.9	6.2	5.6	5.8
1801 - 2400	-----	-----	-----	-----	6.6	7.1	5.8	6.6
DAILY VALUE	-----	-----	-----	-----	6.1	6.4	5.8	6.0
0001 - 0600	-----	-----	-----	-----	6.2	6.2	MONTHLY VALUE	
0601 - 1200	-----	-----	-----	-----	5.6	5.5		
1201 - 1800	-----	-----	-----	-----	5.8	6.0		
1801 - 2400	-----	-----	-----	-----	6.8	7.4		
DAILY VALUE	-----	-----	-----	-----	6.1	6.3		

Table 4/ Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA-GRAVEL	SURFACE WATER	INTRA-GRAVEL	SURFACE WATER	INTRA-GRAVEL	SURFACE WATER	INTRA-GRAVEL	SURFACE WATER
0001 - 0600	6.0	6.5	5.6	5.6	6.5	7.0	4.3	4.1
0601 - 1200	6.0	5.9	5.4	5.2	6.5	6.5	4.2	3.3
1201 - 1800	5.8	6.3	5.2	5.1	6.3	6.1	4.0	4.1
1801 - 2400	6.0	7.2	5.5	5.6	6.1	5.9	4.2	5.0
DAILY VALUE	6.0	6.5	5.4	5.4	6.3	6.4	4.1	4.1
0001 - 0600	6.2	6.9	5.7	5.9	5.9	6.3	4.4	4.7
0601 - 1200	6.1	5.7	5.5	5.3	5.9	6.1	4.3	4.2
1201 - 1800	5.8	5.6	5.3	5.1	5.8	5.7	4.3	4.6
1801 - 2400	5.8	6.5	5.4	5.7	5.6	6.0	4.4	4.8
DAILY VALUE	6.0	6.2	5.5	5.5	5.8	6.0	4.4	4.6
0001 - 0600	5.9	6.7	5.7	6.0	5.5	6.5	4.5	4.6
0601 - 1200	5.9	5.9	5.5	5.2	5.5	6.3	4.4	4.3
1201 - 1800	5.7	5.5	5.2	4.8	5.4	6.0	4.4	4.7
1801 - 2400	5.7	6.0	5.1	5.0	5.3	6.1	4.5	4.9
DAILY VALUE	5.8	6.0	5.4	5.3	5.4	6.2	4.5	4.6
0001 - 0600	5.8	6.1	5.2	5.1	5.3	6.4	4.5	3.9
0601 - 1200	5.7	5.3	5.0	4.5	5.2	5.8	4.2	3.0
1201 - 1800	5.5	5.2	4.6	4.2	5.1	6.0	4.0	3.6
1801 - 2400	5.5	6.0	4.7	4.8	5.1	6.4	4.1	4.3
DAILY VALUE	5.6	5.6	4.9	4.7	5.2	6.1	4.2	3.7
0001 - 0600	5.7	6.1	5.1	5.5	5.1	5.9	4.2	4.3
0601 - 1200	5.6	5.3	5.1	5.0	5.0	5.7	4.2	4.1
1201 - 1800	5.4	5.2	5.0	4.7	4.9	5.9	4.2	4.6
1801 - 2400	5.5	5.9	4.9	5.0	5.0	6.3	4.4	5.0
DAILY VALUE	5.5	5.6	5.0	5.1	5.0	5.9	4.3	4.5
0001 - 0600	5.6	6.2	5.1	5.5	5.0	6.0	4.6	4.8
0601 - 1200	5.6	5.6	5.2	5.3	5.0	5.7	4.6	4.4
1201 - 1800	5.5	5.5	5.2	5.2	4.8	5.8	4.5	4.7
1801 - 2400	5.6	5.8	5.1	5.6	4.8	5.9	4.6	5.1
DAILY VALUE	5.6	5.8	5.1	5.4	4.9	5.8	4.6	4.8
0001 - 0600	5.6	5.8	5.3	6.3	4.7	4.4	-----	-----
0601 - 1200	5.4	5.3	5.5	6.3	4.5	3.8	-----	-----
1201 - 1800	5.4	5.4	5.7	6.5	4.3	4.1	-----	-----
1801 - 2400	5.8	6.2	6.0	6.8	4.4	4.8	-----	-----
DAILY VALUE	5.5	5.7	5.6	6.5	4.5	4.3	-----	-----
0001 - 0600	6.0	6.2	6.5	7.7	4.4	3.5	MONTHLY VALUE	
0601 - 1200	5.6	5.4	6.7	7.5	4.2	2.7		
1201 - 1800	5.3	5.2	6.7	7.0	4.0	3.8		
1801 - 2400	5.5	5.5	6.6	6.9	4.1	4.9	5.2	5.4
DAILY VALUE	5.6	5.6	6.6	7.3	4.2	3.7		

4-C-167

Table 4 - Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	4.7	4.8	3.7	3.2	3.1	2.8	3.2	2.5
0601 - 1200	4.6	4.3	3.5	2.7	3.1	2.7	2.9	2.6
1201 - 1800	4.5	4.4	3.3	2.9	3.1	3.1	-----	-----
1801 - 2400	4.5	4.6	3.5	3.6	3.3	3.4	-----	-----
DAILY VALUE	4.6	4.5	3.5	3.1	3.2	3.0	-----	-----
0001 - 0600	4.5	4.2	3.7	3.7	3.5	3.1	-----	-----
0601 - 1200	4.4	3.8	3.7	3.3	3.4	2.6	-----	-----
1201 - 1800	4.4	4.2	3.7	3.4	3.2	2.6	-----	-----
1801 - 2400	4.5	4.7	3.7	3.6	3.1	3.1	-----	-----
DAILY VALUE	4.5	4.2	3.7	3.5	3.3	2.8	-----	-----
0001 - 0600	4.6	4.4	3.8	3.4	3.3	2.9	-----	-----
0601 - 1200	4.4	3.8	3.6	3.0	3.3	2.9	-----	-----
1201 - 1800	4.3	4.1	3.5	2.9	3.2	2.6	-----	-----
1801 - 2400	4.4	4.5	3.4	3.0	3.0	2.8	-----	-----
DAILY VALUE	4.4	4.2	3.6	3.1	3.2	2.8	-----	-----
0001 - 0600	4.5	4.0	3.4	2.8	3.2	3.0	-----	-----
0601 - 1200	4.2	3.1	3.2	2.5	3.3	2.8	-----	-----
1201 - 1800	3.9	3.0	3.0	2.6	3.2	3.1	-----	-----
1801 - 2400	3.8	3.5	3.1	3.0	3.3	2.8	-----	-----
DAILY VALUE	4.1	3.4	3.2	2.8	3.2	2.9	-----	-----
0001 - 0600	3.8	3.2	3.3	3.2	3.2	2.7	-----	-----
0601 - 1200	3.7	2.7	3.4	2.9	3.1	2.7	-----	-----
1201 - 1800	3.5	2.8	3.3	2.8	3.1	2.9	-----	-----
1801 - 2400	3.5	3.2	3.2	2.9	3.2	2.6	-----	-----
DAILY VALUE	3.6	3.0	3.3	3.0	3.2	2.7	-----	-----
0001 - 0600	3.5	2.9	3.3	2.9	3.0	2.4	-----	-----
0601 - 1200	3.3	2.4	3.3	2.7	2.8	2.3	-----	-----
1201 - 1800	3.2	2.7	3.2	2.7	2.8	3.0	-----	-----
1801 - 2400	3.3	3.4	3.2	3.0	3.2	2.9	-----	-----
DAILY VALUE	3.3	2.8	3.2	2.8	3.0	2.7	-----	-----
0001 - 0600	3.5	3.4	3.3	3.0	3.2	2.8	-----	-----
0601 - 1200	3.5	3.0	3.2	2.4	3.2	2.7	-----	-----
1201 - 1800	3.5	3.0	3.1	2.5	3.0	2.9	-----	-----
1801 - 2400	3.5	3.4	3.0	2.9	3.2	2.8	-----	-----
DAILY VALUE	3.5	3.2	3.2	2.7	3.2	2.8	-----	-----
0001 - 0600	3.6	3.4	3.1	2.8	3.2	2.7	MONTHLY VALUE	
0601 - 1200	3.6	3.1	3.1	2.7	3.1	2.8		
1201 - 1800	3.5	3.2	3.1	2.9	3.1	3.1		
1801 - 2400	3.6	3.6	3.1	2.9	3.4	3.0	3.5	3.1
DAILY VALUE	3.6	3.3	3.1	2.8	3.2	2.9		

Table 4C-36 Mean intragravel and surface water temperature (C) datapod data summary, at Slough 19, RM 140.0, Geocode S31N02W10DBA. A two part linear equation interpolation method was used in order to "correct" readings from actual six hour and three minute time intervals to six hour intervals.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	-----	-----	-----	-----	-----	-----	3.1	5.6
0601 - 1200	-----	-----	-----	-----	-----	-----	3.1	4.6
1201 - 1800	-----	-----	-----	-----	-----	-----	3.0	4.9
1801 - 2400	-----	-----	-----	-----	-----	-----	3.0	6.3
DAILY VALUE	-----	-----	-----	-----	-----	-----	3.1	5.4
0001 - 0600	-----	-----	-----	-----	-----	-----	3.1	5.7
0601 - 1200	-----	-----	-----	-----	-----	-----	3.0	4.6
1201 - 1800	-----	-----	-----	-----	-----	-----	3.0	4.9
1801 - 2400	-----	-----	-----	-----	-----	-----	3.0	6.5
DAILY VALUE	-----	-----	-----	-----	-----	-----	3.0	5.4
0001 - 0600	-----	-----	-----	-----	-----	-----	3.1	5.6
0601 - 1200	-----	-----	-----	-----	-----	-----	3.0	4.0
1201 - 1800	-----	-----	-----	-----	-----	-----	2.9	3.7
1801 - 2400	-----	-----	-----	-----	-----	-----	2.9	5.7
DAILY VALUE	-----	-----	-----	-----	-----	-----	3.0	4.7
0001 - 0600	-----	-----	-----	-----	-----	-----	3.0	5.3
0601 - 1200	-----	-----	-----	-----	-----	-----	3.0	4.1
1201 - 1800	-----	-----	-----	-----	-----	-----	2.9	4.0
1801 - 2400	-----	-----	-----	-----	-----	-----	3.0	5.2
DAILY VALUE	-----	-----	-----	-----	-----	-----	3.0	4.6
0001 - 0600	-----	-----	-----	-----	-----	-----	3.0	5.2
0601 - 1200	-----	-----	-----	-----	-----	-----	3.0	4.4
1201 - 1800	-----	-----	-----	-----	-----	-----	3.0	4.5
1801 - 2400	-----	-----	-----	-----	2.9	6.8	3.0	5.0
DAILY VALUE	-----	-----	-----	-----	-----	-----	3.0	4.8
0001 - 0600	-----	-----	-----	-----	3.0	5.5	3.0	4.9
0601 - 1200	-----	-----	-----	-----	3.0	3.7	3.0	4.4
1201 - 1800	-----	-----	-----	-----	2.9	3.5	3.0	4.3
1801 - 2400	-----	-----	-----	-----	2.9	6.2	3.0	4.5
DAILY VALUE	-----	-----	-----	-----	3.0	4.7	3.0	4.5
0001 - 0600	-----	-----	-----	-----	3.0	5.5	3.0	4.4
0601 - 1200	-----	-----	-----	-----	3.0	4.4	2.9	4.0
1201 - 1800	-----	-----	-----	-----	3.0	4.7	2.9	4.2
1801 - 2400	-----	-----	-----	-----	3.0	5.9	2.9	4.8
DAILY VALUE	-----	-----	-----	-----	3.0	5.1	2.9	4.3
0001 - 0600	-----	-----	-----	-----	3.0	5.0	MONTHLY VALUE	
0601 - 1200	-----	-----	-----	-----	3.0	4.1		
1201 - 1800	-----	-----	-----	-----	3.0	4.5		
1801 - 2400	-----	-----	-----	-----	3.0	6.2		
DAILY VALUE	-----	-----	-----	-----	3.0	4.9		

Table 4/10 - Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	2.9	4.7	3.1	5.0	3.9	5.0	3.3	3.4
0601 - 1200	2.9	4.1	3.1	4.5	4.1	4.4	3.1	3.2
1201 - 1800	2.9	4.3	3.1	4.2	3.9	4.2	3.2	3.4
1801 - 2400	3.0	5.0	3.1	4.7	3.8	4.2	3.3	3.6
DAILY VALUE	2.9	4.5	3.1	4.6	3.9	4.5	3.2	3.4
0001 - 0600	3.1	4.7	3.1	4.8	3.9	4.4	3.3	3.4
0601 - 1200	3.1	3.9	3.1	4.2	3.8	4.1	3.3	3.3
1201 - 1800	3.0	4.1	3.1	4.0	3.7	3.8	3.3	3.5
1801 - 2400	3.0	5.0	3.1	4.4	3.6	4.1	3.4	3.6
DAILY VALUE	3.0	4.4	3.1	4.3	3.7	4.1	3.3	3.5
0001 - 0600	3.0	5.1	3.1	4.5	3.7	4.4	3.3	3.5
0601 - 1200	3.0	4.3	3.1	4.0	3.6	3.9	3.3	3.4
1201 - 1800	2.9	4.1	3.1	3.7	3.5	3.7	3.4	3.6
1801 - 2400	2.9	4.6	3.0	4.0	3.5	3.9	3.4	3.9
DAILY VALUE	2.9	4.5	3.1	4.0	3.6	4.0	3.4	3.6
0001 - 0600	2.9	4.7	3.0	4.1	3.5	4.1	3.3	3.5
0601 - 1200	2.9	4.1	3.0	3.7	3.5	3.7	3.2	3.0
1201 - 1800	2.9	4.1	3.0	3.4	3.4	3.9	3.2	3.2
1801 - 2400	2.9	4.7	3.0	3.7	3.5	4.3	3.3	3.4
DAILY VALUE	2.9	4.4	3.0	3.7	3.5	4.0	3.2	3.3
0001 - 0600	3.0	4.7	3.0	4.2	3.5	3.8	3.3	3.3
0601 - 1200	3.0	4.0	3.0	3.9	3.5	3.6	3.3	3.3
1201 - 1800	2.9	3.9	3.1	3.7	3.5	4.0	3.3	3.5
1801 - 2400	2.9	4.5	3.0	3.9	3.6	4.1	3.4	3.6
DAILY VALUE	3.0	4.3	3.0	3.9	3.5	3.9	3.4	3.4
0001 - 0600	3.0	4.7	3.0	4.1	3.5	3.8	3.4	3.4
0601 - 1200	3.0	4.2	3.0	3.8	3.5	3.6	3.4	3.3
1201 - 1800	3.0	4.0	3.1	3.8	3.4	3.9	3.4	3.4
1801 - 2400	3.0	4.5	3.1	4.1	3.6	4.3	-----	3.6
DAILY VALUE	3.0	4.3	3.1	4.0	3.5	3.9	3.4	3.4
0001 - 0600	3.0	4.6	3.1	4.5	3.5	3.7	-----	-----
0601 - 1200	3.0	4.3	3.2	4.2	3.3	3.3	-----	-----
1201 - 1800	3.0	4.5	3.3	4.1	3.2	3.4	-----	-----
1801 - 2400	3.0	5.5	3.3	4.4	3.4	3.9	-----	-----
DAILY VALUE	3.0	4.7	3.2	4.3	3.4	3.6	-----	-----
0001 - 0600	3.1	5.7	3.4	4.9	3.3	3.4	MONTHLY VALUE	
0601 - 1200	3.2	4.8	3.5	4.4	3.2	3.1		
1201 - 1800	3.1	4.4	3.5	4.3	3.2	3.4		
1801 - 2400	3.1	4.8	3.6	4.5	3.3	3.8	3.2	4.0
DAILY VALUE	3.1	4.9	3.5	4.5	3.2	3.4		

4-C-170

Table 4.6 Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	----	3.6	----	2.7	----	2.0	----	2.3
0601 - 1200	----	3.4	----	2.4	----	1.8	----	2.2
1201 - 1800	----	3.5	----	2.5	----	2.0	----	----
1801 - 2400	----	3.7	----	2.7	----	2.5	----	----
DAILY VALUE	----	3.6	----	2.6	----	2.1	----	----
0001 - 0600	----	3.4	----	2.7	----	2.6	----	----
0601 - 1200	----	3.1	----	2.5	----	2.3	----	----
1201 - 1800	----	3.3	----	2.5	----	2.4	----	----
1801 - 2400	----	3.6	----	2.5	----	2.6	----	----
DAILY VALUE	----	3.4	----	2.5	----	2.5	----	----
0001 - 0600	----	3.4	----	2.5	----	2.3	----	----
0601 - 1200	----	3.0	----	2.5	----	1.8	----	----
1201 - 1800	----	3.2	----	2.6	----	1.6	----	----
1801 - 2400	----	3.5	----	2.7	----	1.8	----	----
DAILY VALUE	----	3.3	----	2.6	----	1.9	----	----
0001 - 0600	----	3.3	----	2.5	----	1.8	----	----
0601 - 1200	----	2.8	----	2.2	----	1.5	----	----
1201 - 1800	----	2.8	----	2.2	----	2.0	----	----
1801 - 2400	----	3.0	----	2.4	----	2.0	----	----
DAILY VALUE	----	3.0	----	2.3	----	1.8	----	----
0001 - 0600	----	2.9	----	2.4	----	2.1	----	----
0601 - 1200	----	2.6	----	2.0	----	2.3	----	----
1201 - 1800	----	2.6	----	2.1	----	2.3	----	----
1801 - 2400	----	2.7	----	2.5	----	1.8	----	----
DAILY VALUE	----	2.7	----	2.2	----	2.1	----	----
0001 - 0600	----	2.6	----	2.5	----	1.7	----	----
0601 - 1200	----	2.4	----	2.1	----	1.8	----	----
1201 - 1800	----	2.5	----	2.3	----	2.1	----	----
1801 - 2400	----	2.8	----	2.9	----	1.9	----	----
DAILY VALUE	----	2.6	----	2.5	----	1.9	----	----
0001 - 0600	----	2.7	----	3.1	----	2.0	----	----
0601 - 1200	----	2.5	----	2.6	----	2.1	----	----
1201 - 1800	----	2.5	----	2.7	----	2.1	----	----
1801 - 2400	----	2.6	----	2.9	----	1.9	----	----
DAILY VALUE	----	2.6	----	2.8	----	2.0	----	----
0001 - 0600	----	2.6	----	2.7	----	2.0	MONTHLY VALUE	
0601 - 1200	----	2.3	----	2.4	----	2.0		
1201 - 1800	----	2.4	----	2.2	----	2.2		
1801 - 2400	----	2.8	----	2.1	----	2.3	----	2.5
DAILY VALUE	----	2.5	----	2.4	----	2.1	----	----

4-C-171

Table 4-7 Mean intragravel and surface water temperature (C) datapod data summary, at Slough 21-Mouth, RM 141.8, Geocode S31N02W02AAB. A two part linear equation interpolation method was used in order to "correct" readings from actual six hour and three minute time intervals to six hour intervals.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	-----	-----	-----	-----	-----	-----	3.6	3.6
0601 - 1200	-----	-----	-----	-----	-----	-----	3.7	3.0
1201 - 1800	-----	-----	-----	-----	-----	-----	3.6	3.3
1801 - 2400	-----	-----	-----	-----	6.9	6.8	3.6	3.8
DAILY VALUE	-----	-----	-----	-----	-----	-----	3.6	3.4
0001 - 0600	-----	-----	-----	-----	6.4	6.3	3.6	3.8
0601 - 1200	-----	-----	-----	-----	5.9	5.8	3.7	3.5
1201 - 1800	-----	-----	-----	-----	5.5	5.4	3.7	3.6
1801 - 2400	-----	-----	-----	-----	5.5	5.3	3.7	3.8
DAILY VALUE	-----	-----	-----	-----	5.8	5.7	3.7	3.7
0001 - 0600	-----	-----	-----	-----	4.9	4.6	3.6	3.7
0601 - 1200	-----	-----	-----	-----	4.5	5.0	3.6	3.5
1201 - 1800	-----	-----	-----	-----	4.4	5.4	3.6	3.7
1801 - 2400	-----	-----	-----	-----	3.8	5.1	3.6	4.0
DAILY VALUE	-----	-----	-----	-----	4.4	5.0	3.6	3.7
0001 - 0600	-----	-----	-----	-----	3.7	4.9	3.6	3.5
0601 - 1200	-----	-----	-----	-----	3.6	4.8	3.6	2.8
1201 - 1800	-----	-----	-----	-----	3.7	5.0	3.7	3.0
1801 - 2400	-----	-----	-----	-----	3.7	5.1	3.7	3.5
DAILY VALUE	-----	-----	-----	-----	3.7	4.9	3.7	3.2
0001 - 0600	-----	-----	-----	-----	3.7	4.7	3.7	3.5
0601 - 1200	-----	-----	-----	-----	3.7	4.6	3.7	3.4
1201 - 1800	-----	-----	-----	-----	3.6	5.1	3.7	3.6
1801 - 2400	-----	-----	-----	-----	3.6	5.2	3.7	3.9
DAILY VALUE	-----	-----	-----	-----	3.7	4.9	3.7	3.6
0001 - 0600	-----	-----	-----	-----	3.7	4.8	3.7	3.8
0601 - 1200	-----	-----	-----	-----	3.6	4.1	3.7	3.5
1201 - 1800	-----	-----	-----	-----	3.7	4.3	3.7	3.7
1801 - 2400	-----	-----	-----	-----	3.6	4.5	3.7	4.0
DAILY VALUE	-----	-----	-----	-----	3.6	4.4	3.7	3.8
0001 - 0600	-----	-----	-----	-----	3.6	3.8	-----	-----
0601 - 1200	-----	-----	-----	-----	3.6	3.1	-----	-----
1201 - 1800	-----	-----	-----	-----	3.6	3.0	-----	-----
1801 - 2400	-----	-----	-----	-----	3.7	3.8	-----	-----
DAILY VALUE	-----	-----	-----	-----	3.6	3.4	-----	-----
0001 - 0600	-----	-----	-----	-----	3.6	3.3	MONTHLY VALUE	
0601 - 1200	-----	-----	-----	-----	3.6	2.6		
1201 - 1800	-----	-----	-----	-----	3.6	3.0		
1801 - 2400	-----	-----	-----	-----	3.6	3.8		
DAILY VALUE	-----	-----	-----	-----	3.6	3.2		

Table 4/ (Cont.)

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	3.7	3.9	3.3	3.0	2.8	2.2	3.7	1.1
0601 - 1200	3.7	3.5	2.7	2.3	3.0	2.5	3.7	1.0
1201 - 1800	3.7	3.6	2.7	2.4	3.4	3.0	-----	-----
1801 - 2400	3.7	3.8	3.3	3.1	3.2	2.7	-----	-----
DAILY VALUE	3.7	3.7	3.0	2.7	3.1	2.6	-----	-----
0001 - 0600	3.7	3.6	3.5	3.2	2.4	1.8	-----	-----
0601 - 1200	3.7	3.3	3.2	2.8	2.3	1.5	-----	-----
1201 - 1800	3.7	3.5	3.2	2.8	2.8	2.1	-----	-----
1801 - 2400	3.6	3.8	3.3	3.0	2.9	2.4	-----	-----
DAILY VALUE	3.7	3.6	3.3	2.9	2.6	1.9	-----	-----
0001 - 0600	3.7	3.7	3.2	2.9	2.8	2.3	-----	-----
0601 - 1200	3.7	3.2	2.9	2.5	2.7	2.1	-----	-----
1201 - 1800	3.7	3.3	2.8	2.4	2.7	2.1	-----	-----
1801 - 2400	3.7	3.7	3.0	2.6	3.1	2.6	-----	-----
DAILY VALUE	3.7	3.4	3.0	2.6	2.8	2.3	-----	-----
0001 - 0600	3.5	3.5	3.0	2.7	2.8	2.2	-----	-----
0601 - 1200	3.1	2.8	2.7	2.4	2.6	1.9	-----	-----
1201 - 1800	2.8	2.6	2.7	2.3	2.7	2.1	-----	-----
1801 - 2400	3.2	2.9	3.1	2.7	2.5	1.9	-----	-----
DAILY VALUE	3.2	2.9	2.9	2.5	2.7	2.0	-----	-----
0001 - 0600	3.3	3.0	3.4	3.0	2.0	1.3	-----	-----
0601 - 1200	3.0	2.6	3.0	2.6	1.8	1.0	-----	-----
1201 - 1800	2.9	2.4	2.9	2.5	1.9	1.1	-----	-----
1801 - 2400	3.0	2.6	3.0	2.7	1.8	.9	-----	-----
DAILY VALUE	3.0	2.6	3.1	2.7	1.9	1.1	-----	-----
0001 - 0600	2.9	2.5	3.1	2.7	1.6	.7	-----	-----
0601 - 1200	2.6	2.2	2.9	2.5	1.7	.8	-----	-----
1201 - 1800	2.7	2.3	2.7	2.3	2.0	1.1	-----	-----
1801 - 2400	3.2	2.9	3.0	2.6	3.0	1.2	-----	-----
DAILY VALUE	2.9	2.5	2.9	2.5	2.1	1.0	-----	-----
0001 - 0600	3.3	3.0	3.2	2.9	3.5	1.1	-----	-----
0601 - 1200	2.9	2.6	2.3	1.7	3.6	.9	-----	-----
1201 - 1800	2.9	2.6	1.9	1.3	3.6	1.0	-----	-----
1801 - 2400	3.1	2.8	2.1	1.5	3.6	.9	-----	-----
DAILY VALUE	3.1	2.8	2.4	1.8	3.6	1.0	-----	-----
0001 - 0600	3.2	2.9	2.7	2.0	3.6	.7	MONTHLY VALUE	
0601 - 1200	3.0	2.7	2.3	1.6	3.6	.9		
1201 - 1800	3.0	2.7	2.6	2.0	3.6	1.2		
1801 - 2400	3.3	3.0	2.8	2.3	3.6	1.4	3.0	2.4
DAILY VALUE	3.1	2.8	2.6	2.0	3.6	1.0		

Table 4-C-38 Mean intragravel and surface water temperature (C) datapod data summary, at Slough 21-Upper, RM 142.0, Geocode S32N02W36CCC. A two part linear equation interpolation method was used in order to "correct" readings from actual six hour and three minute time intervals to six hour intervals.

- AUGUST 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	-----	-----	-----	-----	-----	-----	4.1	5.9
0601 - 1200	-----	-----	-----	-----	-----	-----	4.0	5.2
1201 - 1800	-----	-----	-----	-----	-----	-----	4.1	5.8
1801 - 2400	-----	-----	-----	-----	-----	-----	4.3	7.0
DAILY VALUE	-----	-----	-----	-----	-----	-----	4.1	6.0
0001 - 0600	-----	-----	-----	-----	-----	-----	4.2	6.1
0601 - 1200	-----	-----	-----	-----	-----	-----	4.0	5.3
1201 - 1800	-----	-----	-----	-----	-----	-----	4.1	5.8
1801 - 2400	-----	-----	-----	-----	-----	-----	4.3	7.1
DAILY VALUE	-----	-----	-----	-----	-----	-----	4.2	6.1
0001 - 0600	-----	-----	-----	-----	-----	-----	4.1	6.0
0601 - 1200	-----	-----	-----	-----	-----	-----	4.0	4.6
1201 - 1800	-----	-----	-----	-----	-----	-----	4.0	4.9
1801 - 2400	-----	-----	-----	-----	-----	-----	4.2	6.5
DAILY VALUE	-----	-----	-----	-----	-----	-----	4.1	5.5
0001 - 0600	-----	-----	-----	-----	-----	-----	4.1	5.8
0601 - 1200	-----	-----	-----	-----	-----	-----	4.0	4.8
1201 - 1800	-----	-----	-----	-----	-----	-----	4.0	5.0
1801 - 2400	-----	-----	-----	-----	-----	-----	4.1	5.9
DAILY VALUE	-----	-----	-----	-----	-----	-----	4.0	5.4
0001 - 0600	-----	-----	-----	-----	-----	-----	4.1	5.6
0601 - 1200	-----	-----	-----	-----	-----	-----	4.0	5.0
1201 - 1800	-----	-----	-----	-----	-----	-----	4.0	5.2
1801 - 2400	-----	-----	-----	-----	3.7	7.2	4.0	5.7
DAILY VALUE	-----	-----	-----	-----	-----	-----	4.0	5.4
0001 - 0600	-----	-----	-----	-----	3.7	5.4	4.0	5.5
0601 - 1200	-----	-----	-----	-----	3.7	4.3	4.0	5.0
1201 - 1800	-----	-----	-----	-----	3.7	4.6	4.0	5.1
1801 - 2400	-----	-----	-----	-----	3.7	6.9	4.0	5.3
DAILY VALUE	-----	-----	-----	-----	3.7	5.3	4.0	5.2
0001 - 0600	-----	-----	-----	-----	3.7	5.7	4.0	5.2
0601 - 1200	-----	-----	-----	-----	3.8	5.1	3.9	4.8
1201 - 1800	-----	-----	-----	-----	3.7	5.3	3.9	5.1
1801 - 2400	-----	-----	-----	-----	3.7	6.3	4.0	5.7
DAILY VALUE	-----	-----	-----	-----	3.7	5.6	4.0	5.2
0001 - 0600	-----	-----	-----	-----	3.8	5.4	MONTHLY VALUE	
0601 - 1200	-----	-----	-----	-----	3.8	4.9		
1201 - 1800	-----	-----	-----	-----	4.0	5.3		
1801 - 2400	-----	-----	-----	-----	4.2	6.8		
DAILY VALUE	-----	-----	-----	-----	3.9	5.6		

Table 4-C-20 Cont.

- SEPTEMBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	4.0	5.5	3.9	5.2	7.3	7.9	3.8	3.7
0601 - 1200	3.9	5.0	3.9	4.8	7.3	7.7	3.6	3.1
1201 - 1800	4.0	5.4	3.9	4.8	6.8	7.4	3.8	3.6
1801 - 2400	4.1	6.0	3.9	5.3	6.6	7.1	4.0	4.1
DAILY VALUE	4.0	5.5	3.9	5.0	7.0	7.5	3.8	3.6
0001 - 0600	4.0	5.6	3.9	5.3	6.2	7.1	3.9	3.9
0601 - 1200	3.9	4.9	3.9	4.7	5.5	6.7	3.7	3.6
1201 - 1800	4.0	5.1	3.9	4.7	5.0	6.1	3.9	3.8
1801 - 2400	4.1	5.9	3.9	5.2	4.6	5.7	4.0	4.0
DAILY VALUE	4.0	5.4	3.9	5.0	5.3	6.4	3.9	3.8
0001 - 0600	4.1	5.8	3.9	5.3	4.6	5.6	3.9	3.8
0601 - 1200	4.0	5.1	3.9	4.6	4.3	4.8	3.8	3.7
1201 - 1800	4.0	5.0	3.9	4.4	4.1	4.5	4.0	4.0
1801 - 2400	4.0	5.4	3.8	4.6	4.2	4.7	4.0	4.1
DAILY VALUE	4.0	5.3	3.9	4.7	4.3	4.9	3.9	3.9
0001 - 0600	4.0	5.3	3.8	4.7	4.3	5.0	3.7	3.5
0601 - 1200	3.9	4.7	3.8	4.3	4.1	4.3	3.5	3.0
1201 - 1800	3.9	4.8	3.8	4.0	4.2	4.8	3.7	3.3
1801 - 2400	4.0	5.4	3.8	4.3	4.4	5.1	3.8	3.7
DAILY VALUE	3.9	5.1	3.8	4.3	4.2	4.8	3.7	3.4
0001 - 0600	4.0	5.3	3.8	5.0	4.1	4.5	3.8	3.6
0601 - 1200	3.9	4.7	3.8	4.4	4.0	4.2	3.8	3.5
1201 - 1800	3.9	4.7	3.8	4.3	4.2	4.7	3.9	3.8
1801 - 2400	3.9	5.3	3.8	4.6	4.3	4.9	4.0	4.0
DAILY VALUE	3.9	5.0	3.8	4.6	4.1	4.6	3.8	3.7
0001 - 0600	4.0	5.4	3.8	4.9	4.1	4.5	4.0	3.9
0601 - 1200	3.9	5.0	3.9	4.7	3.9	4.1	3.9	3.7
1201 - 1800	3.9	4.9	3.9	4.7	4.2	4.5	3.9	4.0
1801 - 2400	3.9	5.2	3.8	4.9	4.3	4.8	4.0	4.2
DAILY VALUE	3.9	5.1	3.8	4.8	4.1	4.5	3.9	3.9
0001 - 0600	3.9	5.1	3.8	5.2	3.9	3.9	-----	-----
0601 - 1200	3.8	4.7	3.9	4.9	3.6	3.3	-----	-----
1201 - 1800	3.8	4.9	4.2	5.3	3.8	3.5	-----	-----
1801 - 2400	3.9	5.7	5.2	6.8	4.1	4.4	-----	-----
DAILY VALUE	3.9	5.1	4.3	5.5	3.9	3.8	-----	-----
0001 - 0600	3.9	5.7	5.9	7.7	3.7	3.4	MONTHLY VALUE	
0601 - 1200	3.9	5.0	6.0	8.0	3.5	2.8		
1201 - 1800	3.9	4.8	6.1	8.1	3.7	3.5		
1801 - 2400	3.9	5.2	6.4	7.9	4.0	4.1		
DAILY VALUE	3.9	5.2	6.1	7.9	3.7	3.5	4.2	4.9

4-C-175

Table 4.2 - Cont.

- OCTOBER 1982 -

TIME PERIOD	DAYS 1 - 8		DAYS 9 - 16		DAYS 17 - 24		DAYS 25 - 31	
	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER	INTRA- GRAVEL	SURFACE WATER
0001 - 0600	3.9	3.9	3.6	3.1	3.6	2.8	3.4	2.3
0601 - 1200	3.8	3.7	3.5	2.7	3.5	2.8	3.4	2.3
1201 - 1800	3.9	3.8	3.6	3.0	3.6	3.0	-----	-----
1801 - 2400	3.9	3.9	3.7	3.3	3.8	3.3	-----	-----
DAILY VALUE	3.9	3.8	3.6	3.0	3.6	3.0	-----	-----
0001 - 0600	3.8	3.7	3.7	3.3	3.7	3.0	-----	-----
0601 - 1200	3.8	3.4	3.6	3.1	3.5	2.5	-----	-----
1201 - 1800	3.9	3.7	3.7	3.1	3.5	2.5	-----	-----
1801 - 2400	4.0	4.0	3.7	3.3	3.6	2.9	-----	-----
DAILY VALUE	3.9	3.7	3.7	3.2	3.6	2.7	-----	-----
0001 - 0600	3.9	3.7	3.6	3.1	3.6	2.9	-----	-----
0601 - 1200	3.7	3.4	3.6	2.9	3.6	2.8	-----	-----
1201 - 1800	3.8	3.6	3.6	2.9	3.6	2.7	-----	-----
1801 - 2400	3.9	3.9	3.6	3.0	3.6	2.8	-----	-----
DAILY VALUE	3.8	3.7	3.6	3.0	3.6	2.8	-----	-----
0001 - 0600	3.8	3.5	3.6	2.9	3.6	3.0	-----	-----
0601 - 1200	3.6	3.0	3.5	2.8	3.5	2.7	-----	-----
1201 - 1800	3.6	3.0	3.6	2.9	3.5	2.8	-----	-----
1801 - 2400	3.7	3.3	3.6	3.1	3.5	2.7	-----	-----
DAILY VALUE	3.7	3.2	3.6	2.9	3.5	2.8	-----	-----
0001 - 0600	3.6	3.2	3.7	3.2	3.4	2.3	-----	-----
0601 - 1200	3.5	2.8	3.6	3.0	3.4	2.3	-----	-----
1201 - 1800	3.5	2.8	3.5	2.9	3.5	2.5	-----	-----
1801 - 2400	3.6	3.0	3.6	3.0	3.5	2.3	-----	-----
DAILY VALUE	3.6	3.0	3.6	3.0	3.4	2.4	-----	-----
0001 - 0600	3.5	2.9	3.6	3.0	3.5	2.2	-----	-----
0601 - 1200	3.4	2.6	3.6	2.8	3.5	2.3	-----	-----
1201 - 1800	3.5	2.8	3.6	2.8	3.5	2.5	-----	-----
1801 - 2400	3.7	3.2	3.6	3.1	3.5	2.4	-----	-----
DAILY VALUE	3.6	2.9	3.6	2.9	3.5	2.3	-----	-----
0001 - 0600	3.7	3.1	3.6	3.0	3.5	2.3	-----	-----
0601 - 1200	3.6	2.9	3.5	2.5	3.5	2.3	-----	-----
1201 - 1800	3.6	2.9	3.5	2.4	3.5	2.4	-----	-----
1801 - 2400	3.6	3.1	3.5	2.6	3.4	2.3	-----	-----
DAILY VALUE	3.6	3.0	3.5	2.6	3.5	2.3	-----	-----
0001 - 0600	3.6	3.1	3.6	2.7	3.4	2.1	MONTHLY VALUE	
0601 - 1200	3.6	2.9	3.5	2.6	3.5	2.3		
1201 - 1800	3.6	3.1	3.5	2.7	3.5	2.5		
1801 - 2400	3.7	3.3	3.6	2.8	3.4	2.4		
DAILY VALUE	3.6	3.1	3.5	2.7	3.5	2.4	3.6	2.9

Appendix Table 4-C-3 Thermograph data summary, winter surface water temperature (C),
Whiskers Creek Slough, RM 101.2, Geocode S26N05W03ADB.

- FEBRUARY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	----	----	----	0.0	0.0	0.0
0601 - 1200	----	----	----	----	----	----	----	----	----	0.0	0.0	0.0
1201 - 1800	----	----	----	----	----	----	----	----	----	.5	.5	.5
1801 - 2400	----	----	----	----	----	----	----	----	----	.5	.5	.5
DAILY VALUE	----	----	----	----	----	----	----	----	----	0.0	.3	.5
0001 - 0600	----	----	----	----	----	----	----	----	----	0.0	.2	.5
0601 - 1200	----	----	----	----	----	----	----	----	----	0.0	0.0	0.0
1201 - 1800	----	----	----	----	----	----	----	----	----	0.0	0.0	0.0
1801 - 2400	----	----	----	----	----	----	----	----	----	0.0	0.0	0.0
DAILY VALUE	----	----	----	----	----	----	----	----	----	0.0	.0	.5
0001 - 0600	----	----	----	----	----	----	----	----	----	.5	.5	.5
0601 - 1200	----	----	----	----	----	----	----	----	----	.5	.7	1.0
1201 - 1800	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
1801 - 2400	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
DAILY VALUE	----	----	----	----	----	----	----	----	----	.5	.8	1.0
0001 - 0600	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
0601 - 1200	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
1201 - 1800	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
1801 - 2400	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
DAILY VALUE	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	1.5	1.5	1.5	----	----	----
1801 - 2400	----	----	----	----	----	----	1.5	1.5	1.5	----	----	----
DAILY VALUE	----	----	----	----	----	----	1.5	----	1.5	----	----	----
0001 - 0600	----	----	----	----	----	----	1.5	1.5	1.5	----	----	----
0601 - 1200	----	----	----	----	----	----	1.5	1.5	1.5	----	----	----
1201 - 1800	----	----	----	----	----	----	1.5	----	1.5	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	1.5	----	1.5	----	----	----
0001 - 0600	----	----	----	----	----	----	.5	.7	1.0	MONTHLY VALUE		
0601 - 1200	----	----	----	----	----	----	0.0	0.0	0.0			
1201 - 1800	----	----	----	----	----	----	0.0	0.0	0.0			
1801 - 2400	----	----	----	----	----	----	0.0	0.0	0.0			
DAILY VALUE	----	----	----	----	----	----	0.0	.2	1.0	0.0	----	1.5

Appendix Table 4 (3) Cont.

- MARCH 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0001 - 0600	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	MONTHLY VALUE		
0601 - 1200	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5			
1201 - 1800	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5			
1801 - 2400	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.4	1.5
DAILY VALUE	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5			

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Appendix Table 4-C-39 Cont.

- APRIL 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0601 - 1200	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1201 - 1800	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1801 - 2400	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
DAILY VALUE	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0001 - 0600	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0601 - 1200	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.7	2.0
1201 - 1800	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
1801 - 2400	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
DAILY VALUE	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8	2.0
0001 - 0600	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
0601 - 1200	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
1201 - 1800	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
1801 - 2400	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
DAILY VALUE	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
0001 - 0600	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
0601 - 1200	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
1201 - 1800	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
1801 - 2400	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
DAILY VALUE	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
0001 - 0600	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
0601 - 1200	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
1201 - 1800	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
1801 - 2400	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
DAILY VALUE	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
0001 - 0600	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-----	-----	-----
0601 - 1200	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-----	-----	-----
1201 - 1800	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-----	-----	-----
1801 - 2400	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-----	-----	-----
DAILY VALUE	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-----	-----	-----
0001 - 0600	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	MONTHLY VALUE		
0601 - 1200	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5			
1201 - 1800	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5			
1801 - 2400	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5			
DAILY VALUE	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	2.0

Appendix Table 4-C-39 Cont.

- MAY 1982 -

[illegible]

Appendix

Table 4-C-40 Thermograph data summary, winter surface water temperature (C),
Slough 9B, RM 129.0, Geocode S30N03W16ABB.

- FEBRUARY 1982 -

[illegible]

Appendix Table 4-C-40 Cont.

- MARCH 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	1.8	1.8	1.8	1.8	1.8	1.8	2.3	2.3	2.3	1.8	1.8	1.8
0601 - 1200	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.3	1.8	1.8	1.8
1201 - 1800	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
1801 - 2400	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
DAILY VALUE	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.3	1.8	1.8	1.8
0001 - 0600	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
0601 - 1200	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
1201 - 1800	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.3	2.6	2.8
1801 - 2400	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.3
DAILY VALUE	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.8
0001 - 0600	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
0601 - 1200	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.3
1201 - 1800	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	3.1	3.3
1801 - 2400	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	3.0	3.3
DAILY VALUE	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.5	3.3
0001 - 0600	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	2.8	2.8
0601 - 1200	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	2.8	2.8
1201 - 1800	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.3	3.6	3.8
1801 - 2400	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	3.1	3.3
DAILY VALUE	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	3.1	3.8
0001 - 0600	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	2.8	2.8
0601 - 1200	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	2.8	2.8
1201 - 1800	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.3	3.6	3.8
1801 - 2400	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	3.1	3.3
DAILY VALUE	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	3.1	3.8
0001 - 0600	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	2.8	2.8
0601 - 1200	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	3.0	3.3
1201 - 1800	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.3	3.6	3.8
1801 - 2400	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	3.3	3.8
DAILY VALUE	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	3.2	3.8
0001 - 0600	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	2.8	2.8
0601 - 1200	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	3.0	3.3
1201 - 1800	1.8	1.8	1.8	2.3	2.3	2.3	1.8	1.8	1.8	3.8	3.8	3.8
1801 - 2400	1.8	2.0	2.3	2.3	2.3	2.3	1.8	1.8	1.8	2.8	3.3	3.8
DAILY VALUE	1.8	1.8	2.3	1.8	2.0	2.3	1.8	1.8	1.8	2.8	3.2	3.8
0001 - 0600	1.8	1.8	1.8	2.3	2.3	2.3	1.8	1.8	1.8	MONTHLY VALUE		
0601 - 1200	1.8	1.8	1.8	2.3	2.3	2.3	1.8	1.8	1.8			
1201 - 1800	1.8	1.8	1.8	2.3	2.3	2.3	2.3	2.3	2.3			
1801 - 2400	1.8	1.8	1.8	2.3	2.3	2.3	1.8	2.1	2.3	1.8	2.0	3.8
DAILY VALUE	1.8	1.8	1.8	2.3	2.3	2.3	1.8	2.0	2.3			

4-C-182

Appendix Table 4C-40 Cont.

- APRIL 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	2.8	2.8	2.8	2.8	2.8	2.8	3.3	3.3	3.3	3.8	4.1	4.3
0601 - 1200	2.8	3.0	3.3	2.8	3.0	3.3	3.3	3.5	3.8	4.3	5.1	5.8
1201 - 1800	3.8	3.8	3.8	3.8	4.1	4.3	4.3	4.6	4.8	6.8	6.8	6.8
1801 - 2400	2.8	3.0	3.3	3.3	3.6	3.8	3.8	4.3	4.8	5.3	6.0	6.8
DAILY VALUE	2.8	3.1	3.8	2.8	3.4	4.3	3.3	3.9	4.8	3.8	5.5	6.8
0001 - 0600	2.8	2.8	2.8	2.8	2.8	2.8	3.3	3.3	3.3	4.8	4.8	4.8
0601 - 1200	2.8	2.8	2.8	2.8	3.1	3.3	3.3	3.5	3.8	4.8	5.5	6.3
1201 - 1800	3.3	3.6	3.8	4.3	4.3	4.3	4.3	4.3	4.3	7.3	7.3	7.3
1801 - 2400	2.8	3.0	3.3	3.3	3.6	3.8	3.3	4.0	4.3	4.8	6.0	6.8
DAILY VALUE	2.8	3.0	3.8	2.8	3.5	4.3	3.3	3.8	4.3	4.8	5.9	7.3
0001 - 0600	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	4.0	4.3
0601 - 1200	2.8	3.0	3.3	2.8	3.3	3.8	2.8	3.3	4.3	3.8	4.8	5.8
1201 - 1800	3.8	3.8	3.8	4.3	4.3	4.3	4.8	4.8	4.8	6.8	7.1	7.3
1801 - 2400	2.8	3.0	3.3	3.3	3.8	4.3	2.8	3.5	4.3	5.8	6.6	7.3
DAILY VALUE	2.8	3.1	3.8	2.8	3.5	4.3	2.8	3.6	4.8	3.8	5.6	7.3
0001 - 0600	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.5	4.8
0601 - 1200	2.8	3.0	3.3	2.8	3.3	3.8	2.8	3.3	4.3	4.3	5.6	6.8
1201 - 1800	3.8	3.8	3.8	4.3	4.6	4.8	5.3	5.3	5.3	7.8	8.1	8.3
1801 - 2400	2.8	3.3	3.8	3.3	3.8	4.3	4.3	4.8	5.3	5.8	6.8	7.8
DAILY VALUE	2.8	3.2	3.8	2.8	3.6	4.8	2.8	4.0	5.3	4.3	6.3	8.3
0001 - 0600	2.8	2.8	2.8	2.8	2.8	2.8	3.3	3.5	3.8	4.8	4.8	4.8
0601 - 1200	2.8	3.0	3.3	2.8	3.1	3.8	3.3	4.0	4.8	4.8	5.5	5.8
1201 - 1800	3.8	3.8	3.8	4.8	4.8	4.8	5.3	5.3	5.3	8.8	9.1	9.3
1801 - 2400	2.8	3.3	3.8	3.3	3.8	4.3	4.8	5.1	5.3	5.3	6.8	8.3
DAILY VALUE	2.8	3.2	3.8	2.8	3.6	4.8	3.3	4.5	5.3	4.8	6.5	9.3
0001 - 0600	2.8	2.8	2.8	2.8	2.8	2.8	3.3	3.6	3.8	4.8	4.8	4.8
0601 - 1200	2.8	3.0	3.3	2.8	3.5	4.3	3.3	4.0	4.8	4.8	5.5	5.8
1201 - 1800	3.8	3.8	3.8	4.8	4.8	4.8	5.8	5.8	5.8	6.8	7.8	8.8
1801 - 2400	3.3	3.5	3.8	3.8	4.1	4.3	4.8	5.5	5.8	5.8	7.1	8.3
DAILY VALUE	2.8	3.3	3.8	2.8	3.8	4.8	3.3	4.7	5.8	4.8	6.3	8.8
0001 - 0600	2.8	2.8	2.8	3.3	3.5	3.8	3.8	4.3	4.8	-----	-----	-----
0601 - 1200	2.8	3.0	3.3	3.3	3.5	3.8	3.8	4.6	5.3	-----	-----	-----
1201 - 1800	3.3	3.6	3.8	4.8	4.8	4.8	5.8	5.8	5.8	-----	-----	-----
1801 - 2400	3.3	3.5	3.8	3.8	4.3	4.8	4.8	5.3	5.8	-----	-----	-----
DAILY VALUE	2.8	3.2	3.8	3.3	4.0	4.8	3.8	5.0	5.8	-----	-----	-----
0001 - 0600	2.8	2.8	2.8	3.3	3.3	3.3	4.3	4.5	4.8	MONTHLY VALUE		
0601 - 1200	2.8	3.0	3.3	3.3	3.6	4.3	4.3	5.0	5.8			
1201 - 1800	2.8	3.0	3.3	4.8	4.8	4.8	6.3	6.3	6.3			
1801 - 2400	2.8	3.0	3.3	3.8	4.3	4.8	4.8	5.3	5.8			
DAILY VALUE	2.8	2.9	3.3	3.3	4.0	4.8	4.3	5.3	6.3			

Appendix Table 4-C-40 Cont.

- MAY 1982 -

[illegible]

Appendix Table 4-C-41 Thermograph data summary, winter surface water temperature (C),
Slough 9 below Tributary B, RM 129.0, Geocode
S30N03W16ABC.

- FEBRUARY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	.2	.2	.2	1.2	1.2	1.2
0601 - 1200	----	----	----	----	----	----	.2	.2	.2	1.2	1.2	1.2
1201 - 1800	----	----	----	----	----	----	.2	.2	.2	1.2	1.5	1.7
1801 - 2400	----	----	----	----	----	----	.2	.2	.2	1.2	1.2	1.2
DAILY VALUE	----	----	----	----	----	----	.2	.2	.2	1.2	1.3	1.7
0001 - 0600	----	----	----	----	----	----	.2	.2	.2	1.2	1.2	1.2
0601 - 1200	----	----	----	----	----	----	.2	.2	.2	1.2	1.4	1.7
1201 - 1800	----	----	----	.2	.2	.2	.2	.2	.2	1.7	1.7	1.7
1801 - 2400	----	----	----	.2	.2	.2	.2	.2	.2	1.7	1.7	1.7
DAILY VALUE	----	----	----	.2	----	.2	.2	.2	.2	1.2	1.5	1.7
0001 - 0600	----	----	----	.2	.2	.2	.2	.2	.2	1.7	1.7	1.7
0601 - 1200	----	----	----	.2	.2	.2	.2	.2	.2	1.7	1.7	1.7
1201 - 1800	----	----	----	.2	.2	.2	.7	.7	.7	1.7	1.9	2.2
1801 - 2400	----	----	----	.2	.2	.2	.7	.7	.7	1.7	1.7	1.7
DAILY VALUE	----	----	----	.2	.2	.2	.2	.4	.7	1.7	1.7	2.2
0001 - 0600	----	----	----	.2	.2	.2	.7	.7	.7	1.2	1.5	1.7
0601 - 1200	----	----	----	.2	.2	.2	.7	.7	.7	1.2	1.5	1.7
1201 - 1800	----	----	----	.2	.2	.2	.7	.7	.7	1.7	1.9	2.2
1801 - 2400	----	----	----	.2	.2	.2	.7	.7	.7	1.7	1.7	1.7
DAILY VALUE	----	----	----	.2	.2	.2	.7	.7	.7	1.2	1.7	2.2
0001 - 0600	----	----	----	.2	.2	.2	.7	.7	.7	----	----	----
0601 - 1200	----	----	----	.2	.2	.2	.7	.7	.7	----	----	----
1201 - 1800	----	----	----	.2	.2	.2	.7	.7	.7	----	----	----
1801 - 2400	----	----	----	.2	.2	.2	.7	.7	.7	----	----	----
DAILY VALUE	----	----	----	.2	.2	.2	.7	.7	.7	----	----	----
0001 - 0600	----	----	----	.2	.2	.2	.7	.7	.7	----	----	----
0601 - 1200	----	----	----	.2	.2	.2	.7	.7	.7	----	----	----
1201 - 1800	----	----	----	.2	.2	.2	.7	.7	.7	----	----	----
1801 - 2400	----	----	----	.2	.2	.2	.7	.7	.7	----	----	----
DAILY VALUE	----	----	----	.2	.2	.2	.7	.7	.7	----	----	----
0001 - 0600	----	----	----	.2	.2	.2	.7	.7	.7	----	----	----
0601 - 1200	----	----	----	.2	.2	.2	.7	.7	.7	----	----	----
1201 - 1800	----	----	----	.2	.2	.2	1.2	1.2	1.2	----	----	----
1801 - 2400	----	----	----	.2	.2	.2	1.2	1.2	1.2	----	----	----
DAILY VALUE	----	----	----	.2	.2	.2	.7	.9	1.2	----	----	----
0001 - 0600	----	----	----	.2	.2	.2	1.2	1.2	1.2	MONTHLY VALUE		
0601 - 1200	----	----	----	.2	.2	.2	1.2	1.2	1.2			
1201 - 1800	----	----	----	.2	.2	.2	1.2	1.5	1.7			
1801 - 2400	----	----	----	.2	.2	.2	1.2	1.2	1.2			
DAILY VALUE	----	----	----	.2	.2	.2	1.2	1.3	1.7			

Appendix Table 4-C-41 Cont.

- MARCH 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	1.2	1.2	1.2	2.2	2.2	2.2	1.1	1.1	1.1	2.1	2.1	2.1
0601 - 1200	1.2	1.4	1.7	1.7	2.2	2.7	1.1	1.8	2.6	2.1	2.4	2.6
1201 - 1800	1.7	1.9	2.2	2.2	2.4	2.7	2.6	2.6	2.6	1.6	2.1	2.6
1801 - 2400	1.2	1.5	1.7	2.2	2.2	2.2	2.6	2.6	2.6	1.6	1.6	1.6
DAILY VALUE	1.2	1.5	2.2	1.7	2.2	2.7	1.1	2.0	2.6	1.6	2.1	2.6
0001 - 0600	1.2	1.2	1.2	2.2	2.2	2.2	2.6	2.6	2.6	1.6	1.6	1.6
0601 - 1200	1.2	1.4	1.7	2.2	2.2	2.2	2.6	2.9	3.6	1.6	1.8	2.1
1201 - 1800	1.7	1.9	2.2	2.2	2.5	2.7	2.6	2.9	3.1	1.6	1.8	2.1
1801 - 2400	1.2	1.4	1.7	.7	1.0	1.2	2.6	2.6	2.6	1.1	1.4	1.6
DAILY VALUE	1.2	1.4	2.2	.7	2.0	2.7	2.6	2.8	3.6	1.1	1.6	2.1
0001 - 0600	.7	1.0	1.2	.7	.7	.7	2.1	2.4	2.6	1.1	1.1	1.1
0601 - 1200	.7	1.2	1.7	.7	1.0	1.7	2.1	2.3	2.6	1.1	1.4	1.6
1201 - 1800	1.2	1.5	1.7	1.7	2.0	2.2	2.1	2.3	2.6	1.6	1.8	2.1
1801 - 2400	.7	.9	1.2	.7	.9	1.2	2.1	2.3	2.6	1.6	1.6	1.6
DAILY VALUE	.7	1.2	1.7	.7	1.2	2.2	2.1	2.3	2.6	1.1	1.5	2.1
0001 - 0600	.7	.7	.7	.7	.7	.7	2.1	2.3	2.6	1.1	1.4	1.6
0601 - 1200	.7	1.4	1.7	1.2	1.7	2.2	2.1	2.6	3.1	1.1	1.3	1.6
1201 - 1800	1.7	1.9	2.2	1.7	2.2	2.7	2.6	2.6	2.6	1.1	1.4	1.6
1801 - 2400	1.7	1.7	1.7	.7	1.0	1.2	2.1	2.3	2.6	.6	.9	1.1
DAILY VALUE	.7	1.4	2.2	.7	1.4	2.7	2.1	2.4	3.1	.6	1.3	1.6
0001 - 0600	1.7	1.7	1.7	.7	.7	.7	1.6	1.6	1.6	.6	.6	.6
0601 - 1200	1.7	2.0	2.2	.7	1.0	1.7	1.6	1.9	2.1	.6	1.1	1.6
1201 - 1800	2.2	2.5	2.7	1.2	1.7	2.2	1.6	2.1	2.6	1.1	1.4	1.6
1801 - 2400	2.2	2.2	2.2	.7	.7	.7	2.6	2.6	2.6	.6	.9	1.1
DAILY VALUE	1.7	2.1	2.7	.7	1.0	2.2	1.6	2.1	2.6	.6	1.0	1.6
0001 - 0600	2.2	2.2	2.2	.7	.7	.7	2.6	2.6	2.6	.6	.6	.6
0601 - 1200	2.2	2.4	2.7	1.2	1.4	1.7	2.6	3.1	3.6	.6	.9	1.1
1201 - 1800	2.7	2.7	2.7	1.7	2.0	2.2	2.6	3.1	3.6	.6	.9	1.1
1801 - 2400	2.2	2.2	2.2	1.7	1.7	1.7	2.6	2.6	2.6	.6	.6	.6
DAILY VALUE	2.2	2.4	2.7	.7	1.4	2.2	2.6	2.8	3.6	.6	.8	1.1
0001 - 0600	2.2	2.2	2.2	1.7	1.7	1.7	2.6	2.6	2.6	.6	.6	.6
0601 - 1200	2.2	2.5	2.7	1.7	2.2	2.7	2.6	3.1	3.6	.6	.8	1.1
1201 - 1800	2.7	2.9	3.2	2.2	2.5	2.7	3.1	3.3	3.6	.6	.9	1.1
1801 - 2400	2.7	2.7	2.7	1.7	2.0	2.2	2.6	2.6	2.6	.6	.6	.6
DAILY VALUE	2.2	2.6	3.2	1.7	2.1	2.7	2.6	2.9	3.6	.6	.7	1.1
0001 - 0600	2.2	2.5	2.7	1.7	1.7	1.7	2.1	2.3	2.6	MONTHLY VALUE		
0601 - 1200	2.2	2.7	3.2	1.7	1.9	2.2	2.6	3.1	3.6			
1201 - 1800	2.7	2.9	3.2	---	---	---	2.1	2.8	3.6			
1801 - 2400	2.2	2.5	2.7	1.6	1.6	1.6	2.1	2.1	2.1	.6	1.8	3.6
DAILY VALUE	2.2	2.7	3.2	1.6	---	2.2	2.1	2.6	3.6			

Appendix Table 4-C-41 Cont.

- APRIL 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	.6	.6	.6	1.1	1.1	1.1	1.6	1.6	1.6	2.1	2.1	2.1
0601 - 1200	.6	.8	1.1	1.6	1.8	2.1	1.6	2.1	2.6	3.1	3.6	4.1
1201 - 1800	.6	.8	1.1	1.6	2.1	2.6	2.1	2.4	2.6	3.1	3.6	4.1
1801 - 2400	.6	.6	.6	1.1	1.4	1.6	2.1	2.1	2.1	2.6	2.6	2.6
DAILY VALUE	.6	.7	1.1	1.1	1.6	2.6	1.6	2.1	2.6	2.1	3.0	4.1
0001 - 0600	.6	.6	.6	1.1	----	1.1	1.6	1.8	2.1	2.1	2.3	2.6
0601 - 1200	.6	.8	1.1	2.1	----	2.1	1.6	2.1	2.6	2.6	3.9	5.1
1201 - 1800	.6	.9	1.1	1.6	1.9	2.1	2.1	2.4	2.6	3.1	3.9	4.6
1801 - 2400	.6	.6	.6	1.6	1.6	1.6	1.6	1.8	2.1	2.6	2.6	2.6
DAILY VALUE	.6	.7	1.1	1.1	----	2.1	1.6	2.0	2.6	2.1	3.2	5.1
0001 - 0600	.6	.6	.6	1.1	1.1	1.1	1.1	1.1	1.1	2.6	2.6	2.6
0601 - 1200	.6	.6	.6	1.6	1.9	2.6	1.6	2.3	2.6	3.1	3.4	3.6
1201 - 1800	.6	.9	1.1	1.6	2.1	2.6	2.1	2.4	2.6	3.1	3.8	4.1
1801 - 2400	.6	.6	.6	1.1	1.3	1.6	1.6	1.6	1.6	2.6	2.6	2.6
DAILY VALUE	.6	.7	1.1	1.1	1.6	2.6	1.1	1.8	2.6	2.6	3.1	4.1
0001 - 0600	.6	.6	.6	1.1	----	1.1	1.6	1.6	1.6	2.6	2.8	3.1
0601 - 1200	.6	.8	1.1	1.6	2.1	2.6	2.1	2.8	3.6	3.1	3.9	4.6
1201 - 1800	.6	.9	1.1	1.6	2.1	2.6	2.6	3.1	3.6	3.1	3.9	4.6
1801 - 2400	.6	.6	.6	1.1	1.4	1.6	1.6	1.9	2.1	2.6	2.6	2.6
DAILY VALUE	.6	.7	1.1	1.1	1.8	2.6	1.6	2.3	3.6	2.6	3.3	4.6
0001 - 0600	.6	.6	.6	1.1	----	1.1	2.1	2.1	2.1	2.6	2.6	2.6
0601 - 1200	.6	.9	1.1	1.6	2.1	2.6	2.6	3.1	3.6	3.1	4.1	5.1
1201 - 1800	1.1	1.4	1.6	1.6	2.1	2.6	2.6	2.8	3.1	3.1	3.9	5.1
1801 - 2400	1.1	1.1	1.1	1.1	1.3	1.6	2.1	2.3	2.6	2.6	2.8	3.1
DAILY VALUE	.6	1.0	1.6	1.1	1.7	2.6	2.1	2.6	3.6	2.6	3.3	5.1
0001 - 0600	1.1	1.1	1.1	1.1	----	1.1	2.1	2.1	2.1	2.1	2.1	2.1
0601 - 1200	1.1	1.4	1.6	1.6	1.8	2.1	2.6	3.3	4.1	3.1	3.9	4.6
1201 - 1800	1.6	1.8	2.1	----	----	----	2.6	3.1	3.6	3.6	4.4	5.1
1801 - 2400	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	2.1	2.6	2.8	3.1
DAILY VALUE	1.1	1.5	2.1	1.1	----	2.1	1.6	2.6	4.1	2.1	3.3	5.1
0001 - 0600	1.1	1.4	1.6	1.6	----	1.6	2.1	2.1	2.1	----	----	----
0601 - 1200	1.6	1.6	1.6	2.1	2.3	2.6	2.6	3.3	3.6	----	----	----
1201 - 1800	1.6	1.8	2.1	2.1	2.4	2.6	2.6	3.1	3.6	----	----	----
1801 - 2400	1.1	1.1	1.1	1.6	1.8	2.1	2.1	2.1	2.1	----	----	----
DAILY VALUE	1.1	1.5	2.1	1.6	2.1	2.6	2.1	2.6	3.6	----	----	----
0001 - 0600	1.1	1.1	1.1	1.6	----	1.6	2.1	2.1	2.1	MONTHLY VALUE		
0601 - 1200	.6	1.1	1.6	2.6	2.8	3.1	2.6	3.1	3.6			
1201 - 1800	1.1	1.4	1.6	2.6	2.8	3.1	2.6	3.1	3.6			
1801 - 2400	1.1	1.1	1.1	----	----	----	2.1	2.3	2.6			
DAILY VALUE	.6	1.2	1.6	1.6	----	3.1	2.1	2.6	3.6			

Appendix Table 4-C-41 Cont.

- MAY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	2.1	2.1	2.1	----	----	----	----	----	----	----	----	----
0601 - 1200	3.1	4.4	5.6	----	----	----	----	----	----	----	----	----
1201 - 1800	4.1	4.9	5.6	----	----	----	----	----	----	----	----	----
1801 - 2400	3.1	3.1	3.1	----	----	----	----	----	----	----	----	----
DAILY VALUE	2.1	3.6	5.6	----	----	----	----	----	----	----	----	----
0001 - 0600	2.6	2.8	3.1	----	----	----	----	----	----	----	----	----
0601 - 1200	3.6	4.4	5.1	----	----	----	----	----	----	----	----	----
1201 - 1800	4.1	5.1	6.1	----	----	----	----	----	----	----	----	----
1801 - 2400	2.6	2.9	3.1	----	----	----	----	----	----	----	----	----
DAILY VALUE	2.6	3.8	6.1	----	----	----	----	----	----	----	----	----
0001 - 0600	2.6	2.6	2.6	----	----	----	----	----	----	----	----	----
0601 - 1200	3.1	4.1	4.6	----	----	----	----	----	----	----	----	----
1201 - 1800	3.6	4.4	5.1	----	----	----	----	----	----	----	----	----
1801 - 2400	3.1	3.1	3.1	----	----	----	----	----	----	----	----	----
DAILY VALUE	2.6	3.6	5.1	----	----	----	----	----	----	----	----	----
0001 - 0600	2.6	2.6	2.6	----	----	----	----	----	----	----	----	----
0601 - 1200	3.1	4.6	5.6	----	----	----	----	----	----	----	----	----
1201 - 1800	4.1	4.9	5.6	----	----	----	----	----	----	----	----	----
1801 - 2400	2.6	2.8	3.1	----	----	----	----	----	----	----	----	----
DAILY VALUE	2.6	3.7	5.6	----	----	----	----	----	----	----	----	----
0001 - 0600	2.1	2.3	2.6	----	----	----	----	----	----	----	----	----
0601 - 1200	3.6	4.8	6.1	----	----	----	----	----	----	----	----	----
1201 - 1800	4.1	4.8	5.6	----	----	----	----	----	----	----	----	----
1801 - 2400	2.6	2.8	3.1	----	----	----	----	----	----	----	----	----
DAILY VALUE	2.1	3.6	6.1	----	----	----	----	----	----	----	----	----
0001 - 0600	2.6	2.6	2.6	----	----	----	----	----	----	----	----	----
0601 - 1200	3.6	5.3	6.6	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	2.6	----	6.6	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	MONTHLY VALUE		
0601 - 1200	----	----	----	----	----	----	----	----	----			
1201 - 1800	----	----	----	----	----	----	----	----	----			
1801 - 2400	----	----	----	----	----	----	----	----	----			
DAILY VALUE	----	----	----	----	----	----	----	----	----	2.1	----	6.6

Appendix Table 4-C-42 Thermograph data summary, winter surface water temperature (C),
Slough 11, RM 135.3, Geocode S31N02W19DDD.

- FEBRUARY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
0601 - 1200	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
1201 - 1800	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
1801 - 2400	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
DAILY VALUE	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
0001 - 0600	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
0601 - 1200	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
1201 - 1800	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
1801 - 2400	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
DAILY VALUE	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
0001 - 0600	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
0601 - 1200	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
1201 - 1800	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
1801 - 2400	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
DAILY VALUE	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
0001 - 0600	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
0601 - 1200	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
1201 - 1800	----	----	----	----	----	----	----	----	----	2.0	2.3	2.5
1801 - 2400	----	----	----	----	----	----	----	----	----	2.0	2.0	2.0
DAILY VALUE	----	----	----	----	----	----	----	----	----	2.0	2.1	2.5
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	MONTHLY VALUE		
0601 - 1200	----	----	----	----	----	----	----	----	----	2.0		
1201 - 1800	----	----	----	----	----	----	2.0	----	2.0	2.0		
1801 - 2400	----	----	----	----	----	----	2.0	2.0	2.0	2.0		
DAILY VALUE	----	----	----	----	----	----	2.0	----	2.0	2.0		

Appendix Table 4-C-42 Cont.

- MARCH 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.0
0601 - 1200	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.7	3.0	2.0	2.2	2.5
1201 - 1800	2.0	2.3	2.5	2.5	2.5	2.5	2.5	2.8	3.0	2.5	2.8	3.0
1801 - 2400	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
DAILY VALUE	2.0	2.1	2.5	2.5	2.5	2.5	2.5	2.6	3.0	2.0	2.4	3.0
0001 - 0600	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
0601 - 1200	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7	3.0
1201 - 1800	2.0	2.2	2.5	2.5	2.7	3.0	2.5	2.5	2.5	2.5	3.0	3.5
1801 - 2400	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
DAILY VALUE	2.0	2.0	2.5	2.5	2.5	3.0	2.5	2.5	2.5	2.5	2.7	3.5
0001 - 0600	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
0601 - 1200	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.7	3.0	2.5	2.7	3.0
1201 - 1800	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.7	3.0	3.0	3.3	3.5
1801 - 2400	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8	3.0
DAILY VALUE	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.6	3.0	2.5	2.8	3.5
0001 - 0600	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
0601 - 1200	2.0	2.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7	3.0
1201 - 1800	2.5	2.5	2.5	2.5	2.7	3.0	2.5	2.5	2.5	3.0	3.3	3.5
1801 - 2400	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7	3.0
DAILY VALUE	2.0	2.2	2.5	2.5	2.5	3.0	2.5	2.5	2.5	2.5	2.8	3.5
0001 - 0600	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5
0601 - 1200	2.0	2.3	2.5	2.0	2.2	2.5	2.5	2.7	3.0	2.5	2.8	3.0
1201 - 1800	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7	3.0	3.0	3.3	3.5
1801 - 2400	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7	3.0
DAILY VALUE	2.0	2.3	2.5	2.0	2.3	2.5	2.5	2.6	3.0	2.5	2.8	3.5
0001 - 0600	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
0601 - 1200	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7	3.0	2.5	2.8	3.0
1201 - 1800	2.5	2.7	3.0	2.5	2.7	3.0	3.0	3.0	3.0	3.0	3.3	3.5
1801 - 2400	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
DAILY VALUE	2.5	2.5	3.0	2.5	2.5	3.0	2.5	2.7	3.0	2.5	2.8	3.5
0001 - 0600	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
0601 - 1200	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7	3.0	2.5	2.7	3.0
1201 - 1800	2.5	2.5	2.5	2.5	2.7	3.0	2.5	2.8	3.0	2.5	2.8	3.0
1801 - 2400	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.2	2.5	2.5	2.5	2.5
DAILY VALUE	2.5	2.5	2.5	2.5	2.5	3.0	2.0	2.5	3.0	2.5	2.6	3.0
0001 - 0600	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.0	MONTHLY VALUE		
0601 - 1200	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.5	3.0			
1201 - 1800	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5			
1801 - 2400	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.0	2.0	2.5	3.5
DAILY VALUE	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.2	3.0			

Appendix Table 4-C-42 Cont.

- APRIL 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0	----	----	----
0601 - 1200	2.5	2.7	3.0	3.0	3.5	4.0	3.0	3.5	4.0	----	----	----
1201 - 1800	2.5	2.8	3.0	3.0	3.5	4.0	3.5	3.8	4.0	----	----	----
1801 - 2400	2.5	2.5	2.5	2.5	2.7	3.0	3.0	3.0	3.0	----	----	----
DAILY VALUE	2.5	2.6	3.0	2.5	3.0	4.0	3.0	3.3	4.0	----	----	----
0001 - 0600	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	----	----	----
0601 - 1200	2.5	2.8	3.0	2.5	3.3	4.0	3.0	3.5	4.0	----	----	----
1201 - 1800	2.5	3.0	3.5	3.0	3.5	4.0	3.0	3.5	4.0	----	----	----
1801 - 2400	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7	3.0	----	----	----
DAILY VALUE	2.5	2.7	3.5	2.5	3.0	4.0	2.5	3.0	4.0	----	----	----
0001 - 0600	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7	3.0	----	----	----
0601 - 1200	2.5	3.0	3.5	2.5	3.3	4.0	3.0	3.8	4.5	----	----	----
1201 - 1800	3.0	3.5	4.0	3.0	3.5	4.0	4.0	4.5	5.0	----	----	----
1801 - 2400	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.2	3.5	----	----	----
DAILY VALUE	2.5	2.9	4.0	2.5	3.0	4.0	2.5	3.5	5.0	----	----	----
0001 - 0600	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0	----	----	----
0601 - 1200	2.5	3.0	3.5	2.5	3.2	4.0	3.5	4.0	4.5	----	----	----
1201 - 1800	3.0	3.3	3.5	3.0	3.5	4.0	4.0	4.5	5.0	----	----	----
1801 - 2400	2.5	2.7	3.0	2.0	2.3	2.5	3.0	3.2	3.5	----	----	----
DAILY VALUE	2.5	2.9	3.5	2.0	2.9	4.0	3.0	3.7	5.0	----	----	----
0001 - 0600	2.5	2.5	2.5	2.0	2.2	2.5	3.0	3.0	3.0	----	----	----
0601 - 1200	2.5	3.2	3.5	3.0	3.5	4.0	3.5	4.3	5.0	----	----	----
1201 - 1800	3.0	3.2	3.5	3.0	3.3	3.5	4.0	4.8	5.5	----	----	----
1801 - 2400	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.2	3.5	----	----	----
DAILY VALUE	2.5	2.8	3.5	2.0	3.0	4.0	3.0	3.8	5.5	----	----	----
0001 - 0600	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
0601 - 1200	2.5	3.0	3.5	3.0	3.5	4.0	4.0	4.5	5.0	----	----	----
1201 - 1800	3.0	3.3	3.5	3.5	3.8	4.0	4.0	4.7	5.0	----	----	----
1801 - 2400	2.5	2.7	3.0	2.5	2.8	3.0	----	----	----	----	----	----
DAILY VALUE	2.5	2.9	3.5	2.5	3.3	4.0	3.0	4.1	5.0	----	----	----
0001 - 0600	2.5	2.5	2.5	2.5	2.5	2.5	----	----	----	----	----	----
0601 - 1200	2.5	2.7	3.0	3.0	3.5	4.0	----	----	----	----	----	----
1201 - 1800	3.0	3.0	3.0	4.0	4.3	4.5	----	----	----	----	----	----
1801 - 2400	2.5	2.5	2.5	3.0	3.2	3.5	----	----	----	----	----	----
DAILY VALUE	2.5	2.7	3.0	2.5	3.4	4.5	----	----	----	----	----	----
0001 - 0600	2.5	2.5	2.5	3.0	3.0	3.0	----	----	----	MONTHLY VALUE		
0601 - 1200	3.0	3.2	3.5	3.0	3.3	4.0	----	----	----			
1201 - 1800	3.0	3.5	4.0	3.5	4.0	4.5	----	----	----			
1801 - 2400	2.5	2.7	3.0	3.0	3.0	3.0	----	----	----			
DAILY VALUE	2.5	3.0	4.0	3.0	3.3	4.5	----	----	----	2.0 3.1 5.5		

Appendix

Table 4-C-43 Thermograph data summary, winter surface water temperature (C),
Slough 19, RM 140.0, Geocode S31N11W10DBB.

- FEBRUARY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1801 - 2400	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0001 - 0600	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1801 - 2400	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0001 - 0600	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	1.8	1.8	1.8
1201 - 1800	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	1.8	1.8	1.8
1801 - 2400	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	1.8	1.8	1.8
DAILY VALUE	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	1.8	1.9	2.3
0001 - 0600	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	1.3	1.3	1.3
0601 - 1200	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	1.3	1.3	1.3
1201 - 1800	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	1.3	1.3	1.3
1801 - 2400	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	1.3	1.3	1.3
DAILY VALUE	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	1.3	1.3	1.3
0001 - 0600	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
0601 - 1200	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
1201 - 1800	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
1801 - 2400	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
DAILY VALUE	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
0001 - 0600	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
0601 - 1200	----	----	----	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
1201 - 1800	1.8	1.8	1.8	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
1801 - 2400	1.8	1.8	1.8	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
DAILY VALUE	1.8	----	1.8	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
0001 - 0600	1.8	1.8	1.8	2.3	2.3	2.3	2.3	2.3	2.3	MONTHLY VALUE		
0601 - 1200	1.8	1.8	1.8	2.3	2.3	2.3	2.3	2.3	2.3			
1201 - 1800	1.8	1.8	1.8	2.3	2.3	2.3	2.3	2.3	2.3			
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3			
DAILY VALUE	1.9	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.3	2.2	2.3

4-C-192

Appendix Table 4-C-43 Cont.

- MARCH 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1801 - 2400	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0001 - 0600	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1801 - 2400	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0001 - 0600	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1801 - 2400	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0001 - 0600	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	.8	.8	.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	1.3	1.3	1.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1801 - 2400	1.8	1.8	1.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	.8	1.2	1.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0001 - 0600	1.8	1.8	1.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	1.8	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0001 - 0600	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0001 - 0600	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0001 - 0600	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	MONTHLY VALUE		
0601 - 1200	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3			
1201 - 1800	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3			
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3			
DAILY VALUE	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	.8	2.1	2.3

Appendix Table 4 - 12 Cont.

- APRIL 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0001 - 0600	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8	2.8	2.8
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.8
0001 - 0600	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0001 - 0600	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1201 - 1800	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0001 - 0600	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.8
1201 - 1800	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8	2.8	2.8
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DAILY VALUE	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.8
0001 - 0600	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
0601 - 1200	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.6	3.3
1201 - 1800	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8	3.3	3.8
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.8
DAILY VALUE	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.7	3.8
0001 - 0600	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
0601 - 1200	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
1201 - 1800	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
DAILY VALUE	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	----	----	----
0001 - 0600	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	MONTHLY VALUE		
0601 - 1200	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3			
1201 - 1800	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3			
1801 - 2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3			
DAILY VALUE	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.8

4-C-194

Appendix Table 4-C-43 Cont.

- MAY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	2.3	2.3	2.3	----	----	----	----	----	----	----	----	----
0601 - 1200	2.3	2.6	3.3	----	----	----	----	----	----	----	----	----
1201 - 1800	3.3	3.6	3.8	----	----	----	----	----	----	----	----	----
1801 - 2400	2.3	2.6	2.8	----	----	----	----	----	----	----	----	----
DAILY VALUE	2.3	2.8	3.8	----	----	----	----	----	----	----	----	----
0001 - 0600	2.3	2.3	2.3	----	----	----	----	----	----	----	----	----
0601 - 1200	2.3	2.8	3.3	----	----	----	----	----	----	----	----	----
1201 - 1800	3.3	3.6	3.8	----	----	----	----	----	----	----	----	----
1801 - 2400	2.3	2.5	2.8	----	----	----	----	----	----	----	----	----
DAILY VALUE	2.3	2.8	3.8	----	----	----	----	----	----	----	----	----
0001 - 0600	2.3	2.3	2.3	----	----	----	----	----	----	----	----	----
0601 - 1200	2.3	2.8	3.3	----	----	----	----	----	----	----	----	----
1201 - 1800	3.3	3.3	3.3	----	----	----	----	----	----	----	----	----
1801 - 2400	2.3	2.6	2.8	----	----	----	----	----	----	----	----	----
DAILY VALUE	2.3	2.8	3.3	----	----	----	----	----	----	----	----	----
0001 - 0600	2.3	2.3	2.3	----	----	----	----	----	----	----	----	----
0601 - 1200	2.3	3.3	3.8	----	----	----	----	----	----	----	----	----
1201 - 1800	3.3	4.0	4.3	----	----	----	----	----	----	----	----	----
1801 - 2400	2.3	2.6	2.8	----	----	----	----	----	----	----	----	----
DAILY VALUE	2.3	3.0	4.3	----	----	----	----	----	----	----	----	----
0001 - 0600	2.3	2.3	2.3	----	----	----	----	----	----	----	----	----
0601 - 1200	2.3	3.1	3.8	----	----	----	----	----	----	----	----	----
1201 - 1800	3.3	3.6	3.8	----	----	----	----	----	----	----	----	----
1801 - 2400	2.3	2.6	2.8	----	----	----	----	----	----	----	----	----
DAILY VALUE	2.3	2.9	3.8	----	----	----	----	----	----	----	----	----
0001 - 0600	2.3	2.3	2.3	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	2.3	----	2.3	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	MONTHLY VALUE		
0601 - 1200	----	----	----	----	----	----	----	----	----			
1201 - 1800	----	----	----	----	----	----	----	----	----			
1801 - 2400	----	----	----	----	----	----	----	----	----	2.3 ---- 4.3		
DAILY VALUE	----	----	----	----	----	----	----	----	----			

Appendix * Table 4-c-44 Thermograph data summary, winter surface water temperature (C),
Slough 21 Mouth, RM 142.0, Geocode S31N11W02AAA.

- FEBRUARY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	2.0	2.2	2.5	3.0	3.0	3.0	1.0	1.0	1.0
0601 - 1200	----	----	----	2.0	2.0	2.0	3.0	3.0	3.0	1.0	1.0	1.0
1201 - 1800	----	----	----	2.0	2.0	2.0	3.0	3.0	3.0	1.0	1.0	1.0
1801 - 2400	----	----	----	2.0	2.0	2.0	2.5	2.8	3.0	1.0	1.0	1.0
DAILY VALUE	----	----	----	2.0	2.0	2.5	2.5	3.0	3.0	1.0	1.0	1.0
0001 - 0600	----	----	----	1.5	1.5	1.5	2.5	2.5	2.5	1.0	1.0	1.0
0601 - 1200	----	----	----	1.5	1.5	1.5	2.5	2.5	2.5	1.0	1.0	1.0
1201 - 1800	----	----	----	1.5	1.5	1.5	2.0	2.3	2.5	1.0	1.0	1.0
1801 - 2400	----	----	----	1.5	1.5	1.5	2.0	2.0	2.0	1.0	1.0	1.0
DAILY VALUE	----	----	----	1.5	1.5	1.5	2.0	2.3	2.5	1.0	1.0	1.0
0001 - 0600	----	----	----	1.5	1.5	1.5	2.0	2.0	2.0	1.0	1.0	1.0
0601 - 1200	----	----	----	1.5	1.5	1.5	2.0	2.0	2.0	1.0	1.2	1.5
1201 - 1800	----	----	----	1.5	1.5	1.5	1.5	1.7	2.0	1.5	1.5	1.5
1801 - 2400	----	----	----	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
DAILY VALUE	----	----	----	1.5	1.5	1.5	1.5	1.8	2.0	1.0	1.3	1.5
0001 - 0600	----	----	----	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0601 - 1200	----	----	----	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1201 - 1800	----	----	----	1.5	1.5	1.5	1.0	1.2	1.5	1.5	1.5	1.5
1801 - 2400	----	----	----	1.0	1.3	1.5	1.0	1.0	1.0	1.5	1.5	1.5
DAILY VALUE	----	----	----	1.0	1.5	1.5	1.0	1.3	1.5	1.5	1.5	1.5
0001 - 0600	----	----	----	1.0	1.0	1.0	1.0	1.0	1.0	----	----	----
0601 - 1200	----	----	----	1.0	1.5	2.0	1.0	1.0	1.0	----	----	----
1201 - 1800	----	----	----	1.5	1.5	1.5	1.0	1.0	1.0	----	----	----
1801 - 2400	----	----	----	1.5	1.5	1.5	1.0	1.0	1.0	----	----	----
DAILY VALUE	----	----	----	1.0	1.4	2.0	1.0	1.0	1.0	----	----	----
0001 - 0600	----	----	----	1.5	1.5	1.5	1.0	1.0	1.0	----	----	----
0601 - 1200	----	----	----	1.5	1.5	1.5	1.0	1.0	1.0	----	----	----
1201 - 1800	2.5	2.5	2.5	----	----	----	1.0	1.0	1.0	----	----	----
1801 - 2400	2.5	2.5	2.5	1.5	1.5	1.5	1.0	1.0	1.0	----	----	----
DAILY VALUE	2.5	----	2.5	1.5	1.5	1.5	1.0	1.0	1.0	----	----	----
0001 - 0600	2.0	2.3	2.5	2.0	2.0	2.0	1.0	1.0	1.0	----	----	----
0601 - 1200	2.0	2.3	2.5	2.0	2.0	2.0	1.0	1.0	1.0	----	----	----
1201 - 1800	2.5	2.5	2.5	2.0	2.0	2.0	1.0	1.0	1.0	----	----	----
1801 - 2400	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	----	----	----
DAILY VALUE	2.0	2.3	2.5	2.0	2.0	2.0	1.0	1.0	1.0	----	----	----
0001 - 0600	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	MONTHLY VALUE		
0601 - 1200	2.0	2.2	2.5	2.0	2.2	2.5	1.0	1.0	1.0			
1201 - 1800	2.0	2.0	2.0	3.0	3.0	3.0	1.0	1.0	1.0			
1801 - 2400	2.5	2.5	2.5	3.0	3.0	3.0	1.0	1.0	1.0	1.0	1.6	3.0
DAILY VALUE	2.0	2.0	2.5	2.0	2.5	3.0	1.0	1.0	1.0			

Appendix Table 4-C-11 Cont.

- MARCH 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	1.5	1.5	1.5	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5
0601 - 1200	1.5	1.5	1.5	2.0	2.0	2.0	1.5	1.7	2.0	2.0	2.0	2.0
1201 - 1800	1.5	2.0	2.5	2.0	2.0	2.0	2.0	2.0	2.0	1.5	2.0	2.5
1801 - 2400	2.0	2.2	2.5	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.3	2.0
DAILY VALUE	1.5	1.8	2.5	2.0	2.0	2.0	1.5	1.8	2.0	1.0	1.7	2.5
0001 - 0600	1.5	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.7	2.5
0601 - 1200	1.5	1.5	1.5	2.0	2.2	2.5	2.0	2.5	3.0	1.0	1.3	2.0
1201 - 1800	1.5	1.5	1.5	2.0	2.3	2.5	2.5	2.8	3.0	2.0	2.3	2.5
1801 - 2400	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	1.0	1.2	1.5
DAILY VALUE	1.5	1.5	2.0	1.5	2.0	2.5	2.0	2.5	3.0	1.0	1.6	2.5
0001 - 0600	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.2	2.5	1.0	1.0	1.0
0601 - 1200	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.3	2.5	1.5	2.0	2.5
1201 - 1800	1.5	1.5	1.5	1.5	1.8	2.0	2.5	2.7	3.0	2.0	2.3	2.5
1801 - 2400	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0
DAILY VALUE	1.5	1.5	1.5	1.5	1.6	2.0	2.0	2.3	3.0	1.0	1.8	2.5
0001 - 0600	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	1.5	1.7	2.0
0601 - 1200	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.7	3.5	1.5	2.0	3.0
1201 - 1800	2.0	2.0	2.0	1.5	1.5	1.5	3.0	3.2	3.5	2.0	2.8	3.5
1801 - 2400	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.2	2.5	1.0	1.3	1.5
DAILY VALUE	1.5	1.7	2.0	1.5	1.5	1.5	2.0	2.5	3.5	1.0	2.0	3.5
0001 - 0600	2.0	2.0	2.0	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0
0601 - 1200	2.0	2.0	2.0	1.0	1.2	1.5	2.0	2.0	2.0	1.0	1.7	2.5
1201 - 1800	2.0	2.0	2.0	1.5	1.8	2.0	2.0	2.0	2.0	2.0	2.8	3.5
1801 - 2400	2.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0	2.0	1.5	1.5	1.5
DAILY VALUE	2.0	2.0	2.0	1.0	1.2	2.0	1.5	1.9	2.0	1.0	1.7	3.5
0001 - 0600	2.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0	2.0	1.0	1.0	1.0
0601 - 1200	2.0	2.0	2.0	1.0	1.3	1.5	2.0	2.7	3.0	1.5	1.8	2.5
1201 - 1800	2.0	2.3	2.5	1.5	1.8	2.0	2.0	2.5	3.0	1.5	2.3	3.0
1801 - 2400	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0	2.0	1.0	1.2	1.5
DAILY VALUE	2.0	2.1	2.5	1.0	1.4	2.0	2.0	2.3	3.0	1.0	1.6	3.0
0001 - 0600	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0	2.0	1.0	1.0	1.0
0601 - 1200	2.0	2.3	2.5	1.5	2.0	2.5	2.0	2.5	3.0	1.0	1.5	2.0
1201 - 1800	2.0	2.3	2.5	2.0	2.3	2.5	2.5	3.0	3.5	1.5	2.0	2.5
1801 - 2400	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.5	1.0	1.0	1.0
DAILY VALUE	2.0	2.2	2.5	1.5	2.0	2.5	2.0	2.4	3.5	1.0	1.4	2.5
0001 - 0600	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	MONTHLY VALUE		
0601 - 1200	2.0	2.3	2.5	2.0	2.2	2.5	2.5	2.7	3.0			
1201 - 1800	2.5	2.5	2.5	2.0	2.3	2.5	2.0	2.7	3.5			
1801 - 2400	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.0	1.9	3.5
DAILY VALUE	2.0	2.2	2.5	2.0	2.1	2.5	1.5	2.2	3.5			

- APRIL 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	1.0	1.0	1.0	1.5	1.7	2.0	2.0	2.2	2.5	3.0	3.2	3.5
0601 - 1200	1.0	1.2	1.5	3.0	3.7	4.5	3.0	4.0	5.0	5.0	6.3	7.5
1201 - 1800	1.0	1.5	2.0	2.5	3.5	4.5	3.5	4.7	6.0	4.0	5.3	6.0
1801 - 2400	1.0	1.0	1.0	1.5	1.7	2.0	2.5	2.7	3.0	2.5	2.8	3.0
DAILY VALUE	1.0	1.2	2.0	1.5	2.6	4.5	2.0	3.4	6.0	2.5	4.4	7.5
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.2	2.5	2.0	2.2	2.5
0601 - 1200	1.0	1.2	1.5	2.5	3.7	5.0	2.0	3.3	4.5	3.0	5.5	7.5
1201 - 1800	1.5	1.8	2.0	3.0	4.0	5.0	3.0	4.0	5.0	3.5	5.7	7.5
1801 - 2400	1.0	1.2	1.5	2.0	2.2	2.5	1.5	1.8	2.0	3.0	3.0	3.0
DAILY VALUE	1.0	1.3	2.0	1.5	2.8	5.0	1.5	2.8	5.0	2.0	4.1	7.5
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.2	1.5	3.0	3.2	3.5
0601 - 1200	1.0	1.7	2.5	2.5	3.5	4.5	2.0	3.2	4.5	4.5	5.5	6.5
1201 - 1800	2.0	2.2	2.5	2.5	3.5	4.5	2.5	3.7	4.5	4.5	5.8	6.5
1801 - 2400	1.5	1.5	1.5	1.5	1.7	2.0	2.0	2.0	2.0	3.0	3.2	3.5
DAILY VALUE	1.0	1.6	2.5	1.5	2.5	4.5	1.0	2.5	4.5	3.0	4.4	6.5
0001 - 0600	1.5	1.5	1.5	1.0	1.2	1.5	2.0	2.0	2.0	3.0	3.2	3.5
0601 - 1200	1.5	2.0	2.5	1.5	3.0	5.0	4.0	5.2	6.5	5.0	6.0	6.5
1201 - 1800	2.5	2.8	3.0	2.5	3.8	5.0	3.5	5.2	6.5	4.0	5.3	6.5
1801 - 2400	1.5	1.7	2.0	1.5	1.5	1.5	2.0	2.2	2.5	2.5	2.8	3.0
DAILY VALUE	1.5	2.0	3.0	1.0	2.4	5.0	2.0	3.6	6.5	2.5	4.3	6.5
0001 - 0600	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.2	2.5	2.5	2.7	3.0
0601 - 1200	1.5	2.3	3.5	1.5	3.2	5.0	4.0	5.7	7.5	4.0	5.7	6.5
1201 - 1800	3.0	3.5	4.0	2.0	3.7	5.0	4.0	5.5	7.0	3.5	4.7	6.0
1801 - 2400	2.0	2.2	2.5	1.0	1.3	1.5	2.5	2.8	3.0	2.0	2.2	2.5
DAILY VALUE	1.5	2.4	4.0	1.0	2.4	5.0	2.0	4.0	7.5	2.0	3.8	6.5
0001 - 0600	2.0	2.0	2.0	1.0	1.2	1.5	2.5	2.7	3.0	2.0	2.2	2.5
0601 - 1200	2.5	3.3	4.5	2.5	3.5	4.5	4.0	5.8	7.0	4.0	6.2	8.0
1201 - 1800	3.0	3.7	4.5	3.0	3.8	4.5	3.5	5.0	6.5	4.0	6.0	8.0
1801 - 2400	2.5	2.5	2.5	2.0	2.5	3.0	2.0	2.3	3.0	2.0	2.3	3.0
DAILY VALUE	2.0	2.9	4.5	1.0	2.7	4.5	2.0	4.0	7.0	2.0	4.2	8.0
0001 - 0600	2.5	2.5	2.5	2.0	2.0	2.0	2.0	2.3	3.0	----	----	----
0601 - 1200	2.5	3.8	5.0	3.0	4.3	5.5	4.5	5.3	6.0	----	----	----
1201 - 1800	3.0	3.5	4.0	3.0	4.3	5.5	3.5	4.8	6.0	----	----	----
1801 - 2400	2.0	2.2	2.5	2.0	2.2	2.5	2.5	2.8	3.0	----	----	----
DAILY VALUE	2.0	3.0	5.0	2.0	3.2	5.5	2.0	3.8	6.0	----	----	----
0001 - 0600	2.0	2.0	2.0	1.5	1.7	2.0	2.5	2.7	3.0	MONTHLY VALUE		
0601 - 1200	2.5	2.7	3.0	2.0	4.2	6.5	4.0	4.8	5.5			
1201 - 1800	2.5	2.8	3.0	4.0	5.3	6.5	3.5	4.5	5.5	1.0 3.1 8.0		
1801 - 2400	1.5	1.5	1.5	2.0	2.5	3.0	3.0	3.0	3.0			
DAILY VALUE	1.5	2.2	3.0	1.5	3.4	6.5	2.5	3.7	5.5			

Appendix Table 4-C-44 Cont.

- MAY 1982 -

[illegible]

4-C-199

Appendix Table 4-c-45 Thermograph data summary, winter surface water temperature (C),
Slough 21 Middle, RM 142.0, Geocode S31N11W02AAA.

- MARCH 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	.5	.5	.5	1.0	1.0	1.0	1.0	1.0	1.0
0601 - 1200	----	----	----	.5	.8	1.0	1.0	1.0	1.0	1.5	1.5	1.5
1201 - 1800	----	----	----	1.0	1.0	1.0	1.0	1.0	1.0	.5	1.0	1.5
1801 - 2400	----	----	----	.5	.8	1.0	1.0	1.0	1.0	.5	.5	.5
DAILY VALUE	----	----	----	.5	.8	1.0	1.0	1.0	1.0	.5	1.0	1.5
0001 - 0600	----	----	----	.5	.7	1.0	1.0	1.0	1.0	.5	.5	.5
0601 - 1200	----	----	----	1.0	1.0	1.0	1.0	1.3	1.5	.5	1.0	1.5
1201 - 1800	----	----	----	.5	.7	1.0	1.0	1.3	1.5	1.0	1.2	1.5
1801 - 2400	----	----	----	.5	.5	.5	1.0	1.2	1.5	1.0	1.0	1.0
DAILY VALUE	----	----	----	.5	.7	1.0	1.0	1.2	1.5	.5	.9	1.5
0001 - 0600	----	----	----	.5	.5	.5	1.0	1.2	1.5	1.0	1.0	1.0
0601 - 1200	----	----	----	.5	.7	1.0	1.0	1.2	1.5	1.0	1.2	1.5
1201 - 1800	----	----	----	.5	.8	1.0	1.0	1.2	1.5	1.0	1.3	1.5
1801 - 2400	----	----	----	.5	.5	.5	1.0	1.0	1.0	1.0	1.0	1.0
DAILY VALUE	----	----	----	.5	.6	1.0	1.0	1.1	1.5	1.0	1.1	1.5
0001 - 0600	----	----	----	.5	.5	.5	1.0	1.0	1.0	1.0	1.0	1.0
0601 - 1200	----	----	----	.5	.7	1.0	1.5	1.8	2.0	1.0	1.3	2.0
1201 - 1800	----	----	----	.5	.8	1.0	1.5	1.8	2.0	1.0	1.5	2.0
1801 - 2400	----	----	----	.5	.5	.5	1.0	1.2	1.5	1.0	1.0	1.0
DAILY VALUE	----	----	----	.5	.6	1.0	1.0	1.5	2.0	1.0	1.2	2.0
0001 - 0600	----	----	----	.5	.5	.5	1.0	1.0	1.0	1.0	1.0	1.0
0601 - 1200	----	----	----	.5	.5	.5	1.0	1.0	1.0	1.0	1.2	1.5
1201 - 1800	----	----	----	.5	.7	1.0	1.0	1.0	1.0	1.0	1.2	1.5
1801 - 2400	----	----	----	.5	.5	.5	1.0	1.0	1.0	.5	.8	1.0
DAILY VALUE	----	----	----	.5	.5	1.0	1.0	1.0	1.0	.5	1.0	1.5
0001 - 0600	----	----	----	.5	.5	.5	1.0	1.0	1.0	.5	.5	.5
0601 - 1200	----	----	----	.5	.5	.5	1.5	1.8	2.0	.5	1.0	1.5
1201 - 1800	----	----	----	.5	.8	1.0	1.5	1.5	1.5	1.0	1.2	1.5
1801 - 2400	----	----	----	.5	.8	1.0	1.5	1.5	1.5	1.0	1.0	1.0
DAILY VALUE	----	----	----	.5	.7	1.0	1.0	1.5	2.0	.5	.9	1.5
0001 - 0600	----	----	----	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0
0601 - 1200	----	----	----	1.0	1.2	1.5	1.5	1.7	2.0	1.0	1.2	1.5
1201 - 1800	----	----	----	1.0	1.0	1.0	1.5	1.8	2.0	1.0	1.2	1.5
1801 - 2400	----	----	----	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0
DAILY VALUE	----	----	----	1.0	1.0	1.5	1.5	1.6	2.0	1.0	1.1	1.5
0001 - 0600	----	----	----	1.0	1.0	1.0	1.0	1.0	1.0	MONTHLY VALUE		
0601 - 1200	----	----	----	1.0	1.0	1.0	1.5	1.7	2.0			
1201 - 1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0			
1801 - 2400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.5	1.0	2.0
DAILY VALUE	1.0		1.0	1.0	1.0	1.0	1.0	1.3	2.0			

4-c-200

Appendix Table 4-C-45 Cont.

- APRIL 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	.5	.5	.5	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.2	2.5
0601 - 1200	1.0	1.0	1.0	1.5	2.3	3.0	2.0	2.8	3.5	3.0	3.8	4.5
1201 - 1800	.5	.7	1.0	1.5	2.0	2.5	2.0	2.7	3.5	3.0	3.8	4.5
1801 - 2400	.5	.5	.5	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.2	2.5
DAILY VALUE	.5	.7	1.0	1.0	1.6	3.0	1.5	2.2	3.5	2.0	3.0	4.5
0001 - 0600	.5	.5	.5	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.0	2.0
0601 - 1200	.5	.8	1.0	1.5	2.3	3.0	2.0	2.7	3.0	2.5	3.7	4.5
1201 - 1800	.5	.8	1.0	1.5	2.0	2.5	1.5	2.2	3.0	2.5	3.7	5.0
1801 - 2400	.5	.5	.5	1.0	1.0	1.0	1.0	1.3	1.5	2.0	2.0	2.0
DAILY VALUE	.5	.7	1.0	1.0	1.6	3.0	1.0	1.9	3.0	2.0	2.8	5.0
0001 - 0600	.5	.5	.5	1.0	1.0	1.0	.5	.8	1.0	2.0	2.2	2.5
0601 - 1200	.5	1.0	1.5	1.5	2.3	3.0	1.5	2.3	3.0	3.0	3.5	4.0
1201 - 1800	1.0	1.0	1.0	1.0	1.7	2.5	1.0	1.8	2.5	3.0	3.7	4.0
1801 - 2400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.5	2.0	2.2	2.5
DAILY VALUE	.5	.9	1.5	1.0	1.5	3.0	.5	1.5	3.0	2.0	2.9	4.0
0001 - 0600	.5	.8	1.0	1.0	1.0	1.0	1.5	1.7	2.0	2.0	2.2	2.5
0601 - 1200	1.0	1.2	1.5	1.0	2.2	3.0	2.5	3.7	4.5	3.5	4.0	4.5
1201 - 1800	1.0	1.2	1.5	1.0	2.0	3.0	2.5	3.2	4.0	2.5	3.2	4.0
1801 - 2400	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	1.5	1.8	2.0
DAILY VALUE	.5	1.0	1.5	1.0	1.5	3.0	1.5	2.6	4.5	1.5	2.8	4.5
0001 - 0600	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.8	2.5	1.5	1.5	1.5
0601 - 1200	1.0	1.5	2.0	1.0	2.2	3.0	3.0	4.0	5.0	2.5	3.5	4.0
1201 - 1800	1.0	1.5	2.0	1.0	1.8	3.0	2.5	3.3	4.0	2.0	2.8	3.5
1801 - 2400	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.2	2.5	1.0	1.2	1.5
DAILY VALUE	1.0	1.2	2.0	1.0	1.5	3.0	1.5	2.8	5.0	1.0	2.2	4.0
0001 - 0600	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	1.0	1.2	1.5
0601 - 1200	1.0	1.8	2.5	1.5	2.0	2.5	3.0	4.0	4.5	2.5	3.8	5.0
1201 - 1800	1.5	1.7	2.0	1.5	1.8	2.0	2.5	3.3	4.0	2.5	3.5	4.5
1801 - 2400	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	1.5	1.7	2.0
DAILY VALUE	1.0	1.5	2.5	1.0	1.6	2.5	2.0	2.8	4.5	1.0	2.5	5.0
0001 - 0600	1.0	1.0	1.0	1.0	1.2	1.5	1.5	2.0	2.5	----	----	----
0601 - 1200	1.5	2.2	2.5	2.0	2.8	3.5	3.0	3.5	4.0	----	----	----
1201 - 1800	1.5	1.8	2.0	1.5	2.3	3.0	2.5	3.0	3.5	----	----	----
1801 - 2400	1.0	1.0	1.0	1.0	1.3	1.5	2.0	2.0	2.0	----	----	----
DAILY VALUE	1.0	1.5	2.5	1.0	1.9	3.5	1.5	2.6	4.0	----	----	----
0001 - 0600	1.0	1.2	1.5	1.0	1.2	1.5	2.0	2.2	2.5	MONTHLY VALUE		
0601 - 1200	1.5	1.5	1.5	1.5	3.0	4.0	3.0	3.3	3.5			
1201 - 1800	1.0	1.5	2.0	2.0	3.0	4.0	2.5	3.0	3.5			
1801 - 2400	1.0	1.0	1.0	1.5	1.7	2.0	2.0	2.0	2.0			
DAILY VALUE	1.0	1.3	2.0	1.0	2.2	4.0	2.0	2.6	3.5			

4-C-201

Append x Table 1 C-45 Cont.

- MAY 1982 -

[illegible]

4-C-202

Appendix Table 4-C-46 Thermograph data summary, winter intragravel water temperature (C),
Slough 9 below Tributary B, RM 129.0, Geocode
S30N03W16ABC.

- FEBRUARY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	.5	.5	.5	1.0	1.0	1.0
0601 - 1200	----	----	----	----	----	----	.5	.5	.5	1.0	1.0	1.0
1201 - 1800	----	----	----	1.0	----	1.0	.5	.8	1.0	1.5	1.5	1.5
1801 - 2400	----	----	----	.5	.8	1.0	.5	.5	.5	1.0	1.0	1.0
DAILY VALUE	----	----	----	.5	----	1.0	.5	.6	1.0	1.0	1.1	1.5
0001 - 0600	----	----	----	.5	.5	.5	.5	.5	.5	1.0	1.0	1.0
0601 - 1200	----	----	----	.5	.5	.5	.5	.5	.5	1.0	1.0	1.0
1201 - 1800	----	----	----	.5	.5	.5	.5	.8	1.0	1.0	1.3	1.5
1801 - 2400	----	----	----	.5	.5	.5	.5	.5	.5	1.0	1.0	1.0
DAILY VALUE	----	----	----	.5	.5	.5	.5	.6	1.0	1.0	1.1	1.5
0001 - 0600	----	----	----	.5	.5	.5	.5	.5	.5	1.0	1.0	1.0
0601 - 1200	----	----	----	.5	.5	.5	.5	.7	1.0	1.0	1.0	1.0
1201 - 1800	----	----	----	.5	.5	.5	1.0	1.0	1.0	1.5	1.5	1.5
1801 - 2400	----	----	----	.5	.5	.5	1.0	1.0	1.0	1.0	1.0	1.0
DAILY VALUE	----	----	----	.5	.5	.5	.5	.8	1.0	1.0	1.1	1.5
0001 - 0600	----	----	----	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
0601 - 1200	----	----	----	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
1201 - 1800	----	----	----	0.0	.3	.5	1.0	1.0	1.0	1.5	1.5	1.5
1801 - 2400	----	----	----	0.0	0.0	0.0	.5	.5	.5	1.0	1.0	1.0
DAILY VALUE	----	----	----	0.0	.1	.5	.5	.9	1.0	1.0	1.1	1.5
0001 - 0600	----	----	----	0.0	0.0	0.0	.5	.5	.5	----	----	----
0601 - 1200	----	----	----	0.0	0.0	0.0	.5	.5	.5	----	----	----
1201 - 1800	----	----	----	0.0	0.0	0.0	.5	.8	1.0	----	----	----
1801 - 2400	----	----	----	0.0	0.0	0.0	.5	.5	.5	----	----	----
DAILY VALUE	----	----	----	0.0	0.0	0.0	.5	.6	1.0	----	----	----
0001 - 0600	----	----	----	0.0	0.0	0.0	.5	.5	.5	----	----	----
0601 - 1200	----	----	----	0.0	0.0	0.0	.5	.5	.5	----	----	----
1201 - 1800	----	----	----	0.0	0.0	0.0	.5	.8	1.0	----	----	----
1801 - 2400	----	----	----	0.0	0.0	0.0	.5	.5	.5	----	----	----
DAILY VALUE	----	----	----	0.0	0.0	0.0	.5	.6	1.0	----	----	----
0001 - 0600	----	----	----	0.0	0.0	0.0	.5	.5	.5	----	----	----
0601 - 1200	----	----	----	0.0	0.0	0.0	.5	.7	1.0	MONTHLY VALUE		
1201 - 1800	----	----	----	.5	.5	.5	1.0	1.0	1.0	----	----	----
1801 - 2400	----	----	----	.5	.5	.5	1.0	1.0	1.0	0.0	.6	1.5
DAILY VALUE	----	----	----	0.0	.2	.5	.5	.8	1.0	----	----	----

4-c-203

Appendix Table 4-2-46 Cont.

- MARCH 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0601 - 0600	1.0	1.0	1.0	2.0	2.0	2.0	1.0	1.2	1.5	2.0	2.0	2.0
0601 - 1200	1.0	1.0	1.0	2.0	2.0	2.0	1.0	1.2	1.5	2.0	2.0	2.0
1201 - 1800	1.5	1.5	1.5	2.0	2.0	2.0	1.5	1.8	2.0	1.5	1.8	2.0
1801 - 2400	1.0	1.2	1.5	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
DAILY VALUE	1.0	1.2	1.5	2.0	2.0	2.0	1.0	1.5	2.0	1.0	1.7	2.0
0601 - 0600	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	.5	.8	1.0
0601 - 1200	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.2	1.5
1201 - 1800	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.3	2.5	1.0	1.3	1.5
1801 - 2400	1.0	1.0	1.0	1.0	1.3	1.5	2.0	2.0	2.0	.5	.8	1.0
DAILY VALUE	1.0	1.1	1.5	1.0	1.8	2.0	2.0	2.1	2.5	.5	1.0	1.5
0601 - 0600	1.0	1.0	1.0	.5	.8	1.0	2.0	2.0	2.0	.5	.5	.5
0601 - 1200	1.0	1.0	1.0	.5	.7	1.0	1.5	1.7	2.0	.5	.8	1.0
1201 - 1800	1.0	1.3	1.5	1.5	1.5	1.5	2.0	2.0	2.0	1.0	1.3	1.5
1801 - 2400	1.0	1.0	1.0	1.0	1.2	1.5	2.0	2.0	2.0	1.0	1.0	1.0
DAILY VALUE	1.0	1.1	1.5	.5	1.0	1.5	1.5	1.9	2.0	.5	.9	1.5
0601 - 0600	.5	.5	.5	.5	.5	.5	2.0	2.0	2.0	.5	.8	1.0
0601 - 1200	.5	.8	1.0	1.0	1.2	1.5	2.0	2.0	2.0	.5	1.0	1.5
1201 - 1800	1.5	1.5	1.5	1.5	1.7	2.0	2.0	2.0	2.0	1.0	1.2	1.5
1801 - 2400	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0	.5	.5	.5
DAILY VALUE	.5	1.1	1.5	.5	1.1	2.0	2.0	2.0	2.0	.5	.9	1.5
0601 - 0600	1.5	1.5	1.5	.5	.7	1.0	1.5	1.5	1.5	.5	.5	.5
0601 - 1200	1.0	1.3	1.5	.5	.7	1.0	1.5	1.5	1.5	.5	.7	1.0
1201 - 1800	2.0	2.0	2.0	1.0	1.3	1.5	1.5	1.7	2.0	.5	.8	1.0
1801 - 2400	1.5	1.7	2.0	.5	.7	1.0	2.0	2.0	2.0	.5	.5	.5
DAILY VALUE	1.0	1.6	2.0	.5	.8	1.5	1.5	1.7	2.0	.5	.6	1.0
0601 - 0600	1.5	1.5	1.5	.5	.5	.5	2.0	2.0	2.0	.5	.5	.5
0601 - 1200	1.5	1.7	2.0	.5	.7	1.0	2.0	2.2	2.5	.5	.7	1.0
1201 - 1800	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.3	2.5	.5	.7	1.0
1801 - 2400	2.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0	2.0	0.0	0.0	0.0
DAILY VALUE	1.5	1.8	2.0	.5	.9	1.5	2.0	2.1	2.5	0.0	.5	1.0
0601 - 0600	2.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0	2.0	0.0	0.0	0.0
0601 - 1200	2.0	2.0	2.0	1.0	1.2	1.5	2.0	2.2	2.5	0.0	.2	.5
1201 - 1800	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.5	.5	.5	.5
1801 - 2400	2.0	2.0	2.0	1.5	1.7	2.0	2.0	2.0	2.0	0.0	0.0	0.0
DAILY VALUE	2.0	2.0	2.0	1.0	1.5	2.0	2.0	2.2	2.5	0.0	.2	.5
0601 - 0600	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0	2.0	MONTHLY VALUE		
0601 - 1200	2.0	2.0	2.0	1.5	1.7	2.0	2.0	2.2	2.5			
1201 - 1800	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.5			
1801 - 2400	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0	2.0			
DAILY VALUE	2.0	2.0	2.0	1.5	1.7	2.0	2.0	2.1	2.5			

Appendix Table 4-C-46 Cont.

- APRIL 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
0601 - 1200	0.0	.2	.5	1.0	1.5	2.0	1.5	1.7	2.0	2.5	3.0	3.5
1201 - 1800	0.0	.3	.5	1.5	1.8	2.0	2.0	2.0	2.0	2.5	3.0	3.5
1801 - 2400	0.0	0.0	0.0	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.0	2.0
DAILY VALUE	0.0	.1	.5	1.0	1.3	2.0	1.0	1.5	2.0	2.0	2.5	3.5
0001 - 0600	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.3	1.5	1.5	1.8	2.0
0601 - 1200	0.0	.3	.5	1.0	1.5	2.0	1.0	1.7	2.0	2.5	3.5	4.5
1201 - 1800	.5	.5	.5	1.5	1.8	2.0	1.5	1.8	2.0	2.5	3.5	4.5
1801 - 2400	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.2	1.5	2.0	2.2	2.5
DAILY VALUE	0.0	.2	.5	1.0	1.3	2.0	1.0	1.5	2.0	1.5	2.7	4.5
0001 - 0600	0.0	0.0	0.0	1.0	1.0	1.0	.5	.5	.5	2.0	2.0	2.0
0601 - 1200	0.0	.2	.5	1.0	1.5	2.0	1.0	1.7	2.0	2.5	2.8	3.0
1201 - 1800	.5	.5	.5	1.5	1.8	2.0	1.5	1.8	2.0	2.5	3.2	3.5
1801 - 2400	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.3	2.5
DAILY VALUE	0.0	.2	.5	1.0	1.3	2.0	.5	1.2	2.0	2.0	2.6	3.5
0001 - 0600	0.0	0.0	0.0	.5	.8	1.0	1.0	1.0	1.0	2.0	2.2	2.5
0601 - 1200	0.0	.2	.5	1.0	1.3	2.0	1.5	2.0	2.5	3.0	3.7	4.0
1201 - 1800	.5	.5	.5	1.5	1.8	2.0	2.0	2.5	3.0	3.0	3.5	4.0
1801 - 2400	0.0	.3	.5	1.0	1.0	1.0	1.5	1.5	1.5	2.5	2.5	2.5
DAILY VALUE	0.0	.2	.5	.5	1.2	2.0	1.0	1.7	3.0	2.0	3.0	4.0
0001 - 0600	0.0	.2	.5	.5	.7	1.0	1.0	1.3	1.5	2.0	2.0	2.0
0601 - 1200	.5	.8	1.0	1.0	1.5	2.0	2.0	2.5	3.0	3.0	3.8	4.5
1201 - 1800	1.0	1.0	1.0	1.5	1.8	2.0	2.0	2.2	2.5	3.0	3.7	4.5
1801 - 2400	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.7	2.0	2.0	2.2	2.5
DAILY VALUE	0.0	.7	1.0	.5	1.2	2.0	1.0	1.9	3.0	2.0	2.9	4.5
0001 - 0600	1.0	1.0	1.0	.5	.8	1.0	1.5	1.5	1.5	1.5	1.7	2.0
0601 - 1200	1.0	1.2	1.5	1.0	1.5	2.0	2.0	2.5	3.0	2.5	3.5	4.5
1201 - 1800	1.0	1.5	2.0	1.5	1.8	2.0	2.0	2.5	3.0	3.0	4.2	5.0
1801 - 2400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.5	2.0	2.3	2.5
DAILY VALUE	1.0	1.2	2.0	.5	1.3	2.0	1.0	2.0	3.0	1.5	2.9	5.0
0001 - 0600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.5	----	----	----
0601 - 1200	1.0	1.3	1.5	1.5	1.8	2.0	2.0	2.7	3.0	----	----	----
1201 - 1800	1.0	1.5	2.0	2.0	2.3	2.5	2.0	2.5	3.0	----	----	----
1801 - 2400	1.0	1.0	1.0	1.0	1.2	1.5	1.5	1.5	1.5	----	----	----
DAILY VALUE	1.0	1.2	2.0	1.0	1.6	2.5	1.0	2.0	3.0	----	----	----
0001 - 0600	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	MONTHLY VALUE		
0601 - 1200	.5	.8	1.0	1.5	1.8	2.0	2.0	2.5	3.0			
1201 - 1800	1.0	1.0	1.0	2.0	2.3	2.5	2.0	2.5	3.0			
1801 - 2400	1.0	1.0	1.0	1.0	1.3	1.5	2.0	2.0	2.0			
DAILY VALUE	.5	1.0	1.0	1.0	1.6	2.5	1.5	2.1	3.0	0.0	1.5	5.0

Appendix Table 4-C-46 Cont.

- MAY 1982 -

[illegible]

Appendix Table 4-C-47 Thermograph data summary, winter intragravel water temperature (C),
Slough 9B, RM 129.0, Geocode S30N03W16ABB.

- FEBRUARY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	1.0	----	1.0
1801 - 2400	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
DAILY VALUE	----	----	----	----	----	----	----	----	----	1.0	----	1.0
0001 - 0600	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
0601 - 1200	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
1201 - 1800	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
1801 - 2400	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
DAILY VALUE	----	----	----	----	----	----	----	----	----	1.0	1.0	1.0
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	MONTHLY VALUE		
0601 - 1200	----	----	----	----	----	----	----	----	----			
1201 - 1800	----	----	----	----	----	----	----	----	----			
1801 - 2400	----	----	----	----	----	----	----	----	----			
DAILY VALUE	----	----	----	----	----	----	----	----	----	1.0	----	1.0

4-C-207

Appendix Table 4-C-47 Cont.

- MARCH 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.2	1.5	1.0	1.0	1.0
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.2	1.5	1.0	1.0	1.0
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.5	1.5
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.1	1.5
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.5	1.5
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.5	1.5
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.5	1.5
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.8	2.0
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.6	2.0
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
1801 - 2400	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
DAILY VALUE	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	2.0	2.0
0001 - 0600	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	MONTHLY VALUE		
0601 - 1200	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0			
1201 - 1800	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0			
1801 - 2400	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0			
DAILY VALUE	1.0	1.1	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.3	2.0

Appendix Table 4-C-47 Cont.

- APRIL 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0
0601 - 1200	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.7	3.0	3.5	3.7	4.0
1201 - 1800	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.7	3.0	3.5	3.8	4.0
1801 - 2400	2.0	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.0	4.5	4.7	5.0
DAILY VALUE	2.0	2.0	2.0	2.0	2.1	2.5	2.5	2.8	3.0	3.5	4.0	5.0
0001 - 0600	2.0	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.0	4.5	4.7	5.0
0601 - 1200	2.0	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.0	4.0	4.0	4.0
1201 - 1800	2.0	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.0	4.0	4.3	4.5
1801 - 2400	2.0	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.0	5.0	5.0	5.0
DAILY VALUE	2.0	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.0	4.0	4.5	5.0
0001 - 0600	2.0	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.0	4.5	4.8	5.0
0601 - 1200	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.7	3.0	4.0	4.2	4.5
1201 - 1800	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.7	3.0	4.0	4.2	4.5
1801 - 2400	2.0	2.0	2.0	2.5	2.8	3.0	3.0	3.0	3.0	5.0	5.0	5.0
DAILY VALUE	2.0	2.0	2.0	2.5	2.6	3.0	2.5	2.8	3.0	4.0	4.5	5.0
0001 - 0600	2.0	2.0	2.0	2.5	2.8	3.0	2.5	2.8	3.0	5.0	5.0	5.0
0601 - 1200	2.0	2.0	2.0	2.0	2.2	2.5	2.5	2.5	2.5	4.0	4.3	4.5
1201 - 1800	2.0	2.0	2.0	2.0	2.2	2.5	2.5	2.7	3.0	4.5	4.7	5.0
1801 - 2400	2.5	2.5	2.5	2.5	2.8	3.0	3.0	3.0	3.0	5.0	5.3	5.5
DAILY VALUE	2.0	2.1	2.5	2.0	2.5	3.0	2.5	2.7	3.0	4.0	4.8	5.5
0001 - 0600	2.5	2.5	2.5	2.5	2.7	3.0	3.0	3.0	3.0	5.0	5.3	5.5
0601 - 1200	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	4.5	4.5	4.5
1201 - 1800	2.0	2.0	2.0	2.0	2.2	2.5	3.0	3.0	3.0	4.5	4.8	5.0
1801 - 2400	2.0	2.3	2.5	3.0	3.0	3.0	3.0	3.3	3.5	5.5	5.7	6.0
DAILY VALUE	2.0	2.2	2.5	2.0	2.5	3.0	3.0	3.1	3.5	4.5	5.1	6.0
0001 - 0600	2.0	2.2	2.5	2.5	2.8	3.0	3.5	3.5	3.5	5.0	5.5	6.0
0601 - 1200	2.0	2.0	2.0	2.5	2.5	2.5	3.0	3.2	3.5	5.0	5.0	5.0
1201 - 1800	2.0	2.0	2.0	2.5	2.7	3.0	3.0	3.2	3.5	5.0	5.0	5.0
1801 - 2400	2.5	2.5	2.5	3.0	3.0	3.0	3.5	3.8	4.0	5.0	5.3	5.5
DAILY VALUE	2.0	2.2	2.5	2.5	2.7	3.0	3.0	3.4	4.0	5.0	5.2	6.0
0001 - 0600	2.0	2.3	2.5	3.0	3.0	3.0	4.0	4.0	4.0	-----	-----	-----
0601 - 1200	2.0	2.0	2.0	2.5	2.7	3.0	3.5	3.5	3.5	-----	-----	-----
1201 - 1800	2.0	2.0	2.0	2.5	2.7	3.0	3.5	3.7	4.0	-----	-----	-----
1801 - 2400	2.0	2.3	2.5	3.0	3.0	3.0	4.0	4.0	4.0	-----	-----	-----
DAILY VALUE	2.0	2.2	2.5	2.5	2.8	3.0	3.5	3.8	4.0	-----	-----	-----
0001 - 0600	2.0	2.2	2.5	3.0	3.0	3.0	4.0	4.0	4.0	MONTHLY VALUE		
0601 - 1200	2.0	2.0	2.0	3.0	3.0	3.0	3.5	3.7	4.0			
1201 - 1800	2.0	2.0	2.0	3.0	3.0	3.0	3.5	3.8	4.0			
1801 - 2400	2.0	2.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0			
DAILY VALUE	2.0	2.0	2.5	3.0	3.0	3.0	3.5	3.9	4.0	2.0	3.0	6.0

4-C-209

Appendix Table 4-C-47 Cont.

- MAY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	5.0	5.3	5.5	----	----	----	----	----	----	----	----	----
0601 - 1200	5.0	5.0	5.0	----	----	----	----	----	----	----	----	----
1201 - 1800	5.0	5.0	5.0	----	----	----	----	----	----	----	----	----
1801 - 2400	5.5	5.8	6.0	----	----	----	----	----	----	----	----	----
DAILY VALUE	5.0	5.3	6.0	----	----	----	----	----	----	----	----	----
0001 - 0600	5.5	5.8	6.0	----	----	----	----	----	----	----	----	----
0601 - 1200	5.0	5.0	5.0	----	----	----	----	----	----	----	----	----
1201 - 1800	5.0	5.2	5.5	----	----	----	----	----	----	----	----	----
1801 - 2400	5.5	5.8	6.0	----	----	----	----	----	----	----	----	----
DAILY VALUE	5.0	5.5	6.0	----	----	----	----	----	----	----	----	----
0001 - 0600	5.5	5.8	6.0	----	----	----	----	----	----	----	----	----
0601 - 1200	5.0	5.0	5.0	----	----	----	----	----	----	----	----	----
1201 - 1800	5.0	5.0	5.0	----	----	----	----	----	----	----	----	----
1801 - 2400	5.0	5.3	5.5	----	----	----	----	----	----	----	----	----
DAILY VALUE	5.0	5.3	6.0	----	----	----	----	----	----	----	----	----
0001 - 0600	5.0	5.2	5.5	----	----	----	----	----	----	----	----	----
0601 - 1200	4.5	4.7	5.0	----	----	----	----	----	----	----	----	----
1201 - 1800	4.5	4.7	5.0	----	----	----	----	----	----	----	----	----
1801 - 2400	5.0	5.3	5.5	----	----	----	----	----	----	----	----	----
DAILY VALUE	4.5	5.0	5.5	----	----	----	----	----	----	----	----	----
0001 - 0600	5.0	5.3	5.5	----	----	----	----	----	----	----	----	----
0601 - 1200	4.5	4.5	4.5	----	----	----	----	----	----	----	----	----
1201 - 1800	4.5	4.8	5.0	----	----	----	----	----	----	----	----	----
1801 - 2400	5.0	5.3	5.5	----	----	----	----	----	----	----	----	----
DAILY VALUE	4.5	5.0	5.5	----	----	----	----	----	----	----	----	----
0001 - 0600	5.0	5.2	5.5	----	----	----	----	----	----	----	----	----
0601 - 1200	4.5	4.7	5.0	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	4.5	----	5.5	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	----	----	----
0601 - 1200	----	----	----	----	----	----	----	----	----	----	----	----
1201 - 1800	----	----	----	----	----	----	----	----	----	----	----	----
1801 - 2400	----	----	----	----	----	----	----	----	----	----	----	----
DAILY VALUE	----	----	----	----	----	----	----	----	----	----	----	----
0001 - 0600	----	----	----	----	----	----	----	----	----	MONTHLY VALUE		
0601 - 1200	----	----	----	----	----	----	----	----	----			
1201 - 1800	----	----	----	----	----	----	----	----	----			
1801 - 2400	----	----	----	----	----	----	----	----	----			
DAILY VALUE	----	----	----	----	----	----	----	----	----	4.5	----	6.0

Apr. Table 4-C-48 Thermograph data summary, winter intragravel water temperature (C),
Slough 19, RM 140.0, Geocode S31N11W10DBB.

- FEBRUARY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0601 - 1200	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1201 - 1800	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1801 - 2400	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
DAILY VALUE	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0001 - 0600	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0601 - 1200	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1201 - 1800	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1801 - 2400	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
DAILY VALUE	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0001 - 0600	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0601 - 1200	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1201 - 1800	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1801 - 2400	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
DAILY VALUE	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0001 - 0600	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
0601 - 1200	----	----	----	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
1201 - 1800	4.0	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
1801 - 2400	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
DAILY VALUE	4.0	----	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
1201 - 1800	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
1801 - 2400	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
DAILY VALUE	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
1201 - 1800	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
1801 - 2400	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
DAILY VALUE	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	----	----	----
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	MONTHLY VALUE		
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0			
1201 - 1800	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0			
1801 - 2400	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0			
DAILY VALUE	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

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Appendix Table 4-C-4B Cont.

- MARCH 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1201 - 1800	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.3	4.5
1801 - 2400	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5
DAILY VALUE	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	4.5
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1201 - 1800	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.3	4.5
1801 - 2400	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5
DAILY VALUE	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	4.5
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1201 - 1800	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.3	4.5
1801 - 2400	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5
DAILY VALUE	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	4.5
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1201 - 1800	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.3	4.5
1801 - 2400	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5
DAILY VALUE	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	4.5
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1201 - 1800	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1801 - 2400	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
DAILY VALUE	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1201 - 1800	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.3	4.5	4.0	4.0	4.0
1801 - 2400	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.0	4.0	4.0
DAILY VALUE	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	4.5	4.0	4.0	4.0
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	MONTHLY VALUE		
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0			
1201 - 1800	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.3	4.5			
1801 - 2400	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.0 4.0 4.5		
DAILY VALUE	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	4.5			

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Appendix Table 4-C-43 Cont.

- APRIL 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	---	---	---	---	---	---
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	---	---	---	---	---	---
1201 - 1800	4.0	4.0	4.0	4.5	4.5	4.5	---	---	---	---	---	---
1801 - 2400	4.0	4.0	4.0	4.0	4.3	4.5	---	---	---	---	---	---
DAILY VALUE	4.0	4.0	4.0	4.0	4.2	4.5	---	---	---	---	---	---
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	---	---	---	---	---	---
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	---	---	---	---	---	---
1201 - 1800	4.0	4.0	4.0	4.5	4.8	5.0	---	---	---	---	---	---
1801 - 2400	4.0	4.0	4.0	4.0	4.3	4.5	---	---	---	---	---	---
DAILY VALUE	4.0	4.0	4.0	4.0	4.3	5.0	---	---	---	---	---	---
0001 - 0600	4.0	4.0	4.0	4.0	4.0	4.0	---	---	---	---	---	---
0601 - 1200	4.0	4.0	4.0	4.0	4.0	4.0	---	---	---	---	---	---
1201 - 1800	4.0	4.0	4.0	4.5	4.8	5.0	---	---	---	---	---	---
1801 - 2400	4.0	4.0	4.0	4.5	4.7	5.0	---	---	---	---	---	---
DAILY VALUE	4.0	4.0	4.0	4.0	4.4	5.0	---	---	---	---	---	---
0001 - 0600	4.0	4.0	4.0	4.5	4.5	4.5	---	---	---	---	---	---
0601 - 1200	4.0	4.0	4.0	4.5	4.5	4.5	---	---	---	---	---	---
1201 - 1800	4.0	4.0	4.0	4.5	4.8	5.0	---	---	---	---	---	---
1801 - 2400	4.0	4.0	4.0	4.5	4.7	5.0	---	---	---	---	---	---
DAILY VALUE	4.0	4.0	4.0	4.5	4.6	5.0	---	---	---	---	---	---
0001 - 0600	4.0	4.0	4.0	4.0	4.2	4.5	---	---	---	---	---	---
0601 - 1200	4.0	4.0	4.0	---	---	---	---	---	---	---	---	---
1201 - 1800	4.0	4.0	4.0	---	---	---	---	---	---	---	---	---
1801 - 2400	4.0	4.0	4.0	---	---	---	---	---	---	---	---	---
DAILY VALUE	4.0	4.0	4.0	4.0	---	4.5	---	---	---	---	---	---
0001 - 0600	4.0	4.0	4.0	---	---	---	---	---	---	---	---	---
0601 - 1200	4.0	4.0	4.0	---	---	---	---	---	---	---	---	---
1201 - 1800	4.0	4.0	4.0	---	---	---	---	---	---	---	---	---
1801 - 2400	4.0	4.0	4.0	---	---	---	---	---	---	---	---	---
DAILY VALUE	4.0	4.0	4.0	---	---	---	---	---	---	---	---	---
0001 - 0600	4.0	4.0	4.0	---	---	---	---	---	---	---	---	---
0601 - 1200	4.0	4.0	4.0	---	---	---	---	---	---	---	---	---
1201 - 1800	4.0	4.3	4.5	---	---	---	---	---	---	---	---	---
1801 - 2400	4.0	4.3	4.5	---	---	---	---	---	---	---	---	---
DAILY VALUE	4.0	4.2	4.5	---	---	---	---	---	---	---	---	---
0001 - 0600	4.0	4.0	4.0	---	---	---	---	---	---	MONTHLY VALUE		
0601 - 1200	4.0	4.0	4.0	---	---	---	---	---	---			
1201 - 1800	4.0	4.3	4.5	---	---	---	---	---	---			
1801 - 2400	4.0	4.2	4.5	---	---	---	---	---	---	4.0 --- 5.0		
DAILY VALUE	4.0	4.1	4.5	---	---	---	---	---	---			

Appendix Table 4-C-49 Thermograph data summary, winter intragravel water temperature (C),
Slough 21 Mouth, RM 142.0, Geocode S31N11W02AAA.

- FEBRUARY 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0601 - 1200	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1201 - 1800	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1801 - 2400	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DAILY VALUE	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0001 - 0600	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0601 - 1200	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1201 - 1800	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1801 - 2400	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DAILY VALUE	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0001 - 0600	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0601 - 1200	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1201 - 1800	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1801 - 2400	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DAILY VALUE	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0001 - 0600	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0601 - 1200	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1201 - 1800	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1801 - 2400	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DAILY VALUE	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0001 - 0600	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
0601 - 1200	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
1201 - 1800	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
1801 - 2400	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
DAILY VALUE	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
0001 - 0600	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
0601 - 1200	----	----	----	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
1201 - 1800	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
1801 - 2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
DAILY VALUE	3.0	----	3.0	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
0001 - 0600	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
0601 - 1200	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
1201 - 1800	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
1801 - 2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
DAILY VALUE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	----	----	----
0001 - 0600	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	-----	-----	-----
0601 - 1200	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	MONTHLY VALUE		
1201 - 1800	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	-----		
1801 - 2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DAILY VALUE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0			

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Appendix Table 4-C-49 Cont.

- MARCH 1982 -

TIME PERIOD	DAYS 1 - 8			DAYS 9 - 16			DAYS 17 - 24			DAYS 25 - 31		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
0001 - 0600	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0601 - 1200	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1201 - 1800	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1801 - 2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DAILY VALUE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0001 - 0600	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0601 - 1200	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1201 - 1800	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1801 - 2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DAILY VALUE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0001 - 0600	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0601 - 1200	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1201 - 1800	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1801 - 2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DAILY VALUE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0001 - 0600	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0601 - 1200	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1201 - 1800	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1801 - 2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DAILY VALUE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0001 - 0600	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0601 - 1200	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1201 - 1800	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1801 - 2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DAILY VALUE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0001 - 0600	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0601 - 1200	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1201 - 1800	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1801 - 2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DAILY VALUE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0001 - 0600	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	MONTHLY VALUE		
0601 - 1200	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0			
1201 - 1800	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0			
1801 - 2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0 3.0 3.0		
DAILY VALUE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0			

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Appendix Table 4-C-50. Instantaneous intragravel water temperatures obtained at salmon spawning redds in Slough 8A, Susitna River, Alaska, 1982.

Date	Time (hours)		Redd No.	Salmon Species	Intragravel Temp (°C)	Surface Temp (°C)
	Begin	End				
August 26, 1982	1830	1920	03	Chum	11.4	12.6
			02	Chum	11.2	13.0
			04	Chum	-. -	13.2
			15	Chum	-. -	13.2
			14	Chum	-. -	13.2
			13	Chum	-. -	12.8
			11	Chum	-. -	13.2
			09	Chum	-. -	13.2
			08	Chum	-. -	13.2
			07	Chum	-. -	13.2
			06	Chum	-. -	13.1
			05	Chum	-. -	13.0
			10	Chum	-. -	13.2
	1945	2039	01	Chum	-. -	13.0
			12	Chum	-. -	13.0
			01	Pink	-. -	13.0
			22	Chum	-. -	12.4
			21	Chum	-. -	12.4
			16	Chum	-. -	12.4
			18	Chum	-. -	12.4
			17	Chum	-. -	12.0
			19	Chum	-. -	12.4
			24	Chum	-. -	12.0
			25	Chum	-. -	12.0
			26	Chum	-. -	11.5
			27	Chum	-. -	11.0
September 6, 1982	1540	1910	40	Chum	-. -	7.6
			41	Chum	5.1	7.6
			42	Chum	6.7	7.6
			43	Chum	4.9	7.6
			44	Chum	6.1	7.6
			45	Chum	-. -	7.6
			46	Chum	4.9	7.6
			47	Chum	5.7	7.6
			48	Chum	6.9	7.6
			49	Chum	5.2	7.6
			01	Sockeye	7.4	7.6
			50	Chum	-. -	7.6

Appendix Table 4-C-51. Instantaneous intragravel temperatures obtained at salmon spawning redds in Slough 9, Susitna River, Alaska, 1982.

Date	Time (hours)		Redd No.	Salmon Species	Intragravel Temp (°C)	Surface Temp (°C)
	Begin	End				
August 25, 1982	2040	2100	02	Pink	11.0	10.0
			03	Pink	11.1	10.0
August 26, 1982	0955	1400	01	Chum	-.-	8.8
			01	Chum	3.8	8.2
			02	Chum	4.0	7.6
			03	Chum	3.4	7.6
			04	Chum	4.2	7.8
			06	Chum	3.9	8.8
			--	Chum	5.3	9.2
			--	Chum	4.8	9.8
			27	Chum	4.8	9.8
			26	Chum	4.4	8.8
			07	Chum	4.5	9.4
			--	Chum	6.8	9.2
			--	Chum	6.4	10.4
			08	Chum	5.2	9.8
			09	Chum	4.3	9.4
			10	Chum	4.7	9.2
			11	Chum	4.7	9.4
			12	Chum	6.0	9.2
			13	Chum	5.4	9.4
			14	Chum	4.0	9.2
			15	Chum	4.5	9.2
			16	Chum	4.5	9.6
			--	Chum	6.0	10.0
			17	Chum	5.4	10.0
			19	Chum	3.9	11.0
			20	Chum	3.5	10.2
			21	Chum	4.0	9.6
			22	Chum	4.4	10.4
			25	Chum	6.3	10.1
September 5, 1982	1344	1910	26	Chum	8.2	8.7
			27	Chum	8.2	8.9
			28	Chum	7.8	8.9
			29	Chum	6.4	8.8
			30	Chum	5.9	8.6
			31	Chum	6.0	8.8
			32	Chum	6.1	8.8
			33	Chum	6.1	8.9
			34	Chum	7.0	9.0
			35	Chum	6.1	8.8
			36	Chum	4.6	8.4
			37	Chum	5.5	8.8
			38	Chum	4.2	8.8

Appendix Table 4-C-51 (Continued)

<u>Date</u>	<u>Time (hours)</u>		<u>Redd No.</u>	<u>Salmon Species</u>	<u>Intragravel Temp (°C)</u>	<u>Surface Temp (°C)</u>
	<u>Begin</u>	<u>End</u>				
September 5, 1982	1344	1910	39	Chum	-.-	9.0
			40	Chum	-.-	9.0
			41	Chum	-.-	8.8
			42	Chum	-.-	8.6
			43	Chum	-.-	8.6
			44	Chum	-.-	7.0
September 6, 1982	1040	1200	45	Chum	-.-	6.6

Appendix Table 4-C-52. Instantaneous intragravel water temperatures obtained at salmon spawning redds in Slough 11, Susitna River, Alaska, 1982.

Date	Time (hours)		Redd No.	Salmon Species	Intragravel Temp (°C)	Surface Temp (°C)
	Begin	End				
September 6, 1982	N/A	N/A	--	Chum	5.0	7.1
			--	Chum	6.1	7.0
			--	Chum	-. -	7.0
			--	Chum	4.3	6.8
			--	Chum	4.3	6.8
			--	Sockeye	5.3	6.8
September 20, 1982	1030	1745	--	Chum	4.1	7.0
			01	Sockeye	3.1	-. -
			02	Sockeye	4.1	-. -
			03	Sockeye	3.2	-. -
			04	Sockeye	3.4	-. -
			05	Sockeye	3.1	-. -
			06	Sockeye	3.2	-. -
			07	Sockeye	3.2	-. -
			01	Chum	4.6	-. -
			02	Chum	4.3	-. -
			03	Chum	4.9	-. -
			08	Sockeye	4.0	-. -
			04	Sockeye	4.5	-. -
			05	Sockeye	4.4	-. -
			06	Sockeye	5.0	-. -
			09	Sockeye	4.2	-. -
			08	Chum	5.5	-. -
			10	Sockeye	3.0	-. -
			11	Sockeye	3.1	-. -
			12	Sockeye	3.0	-. -
			13	Sockeye	3.6	-. -
			14	Sockeye	3.5	-. -
			15	Sockeye	3.1	-. -
			16	Sockeye	3.2	-. -
			17	Sockeye	3.2	-. -
			18	Sockeye	3.2	-. -
			09	Chum	3.1	-. -
			19	Sockeye	3.4	-. -
			20	Sockeye	3.4	-. -
			21	Sockeye	3.0	-. -
			22	Sockeye	3.2	-. -

Appendix Table 4-C-53. Instantaneous intragravel water temperatures obtained at salmon spawning redds in Slough 21, Susitna River, Alaska, 1982.

Date	Time (hours)		Redd No.	Salmon Species	Intragravel Temp (°C)	Surface Temp (°C)
	Begin	End				
September 3, 1982	1720	N/A	01	Chum	5.5	6.6
			02	Chum	4.9	6.3
			03	Chum	4.7	6.3
			04	Chum	4.5	5.1
			05	Chum	5.0	5.5
September 4, 1982	1413	1600	06	Chum	4.7	7.4
			07	Chum	4.8	7.2
			08	Sockeye	4.8	7.5
			09	Chum	4.7	7.5
			10	Chum	4.9	7.4
			11	Chum	5.6	7.2
			12	Chum	5.5	7.4
			13	Chum	5.5	7.2
			14	Chum	4.6	7.3
			15	Chum	4.7	7.3
			16	Chum	4.6	7.6
			17	Chum	4.8	7.4
			18	Chum	4.5	7.3
			19	Chum	4.7	7.3
			20	Chum	5.2	7.4
			21	Chum	4.3	7.3
			22	Chum	4.6	7.3
			23	Chum	4.2	7.5
			24	Chum	4.6	7.4
			25	Chum	4.7	7.5
			26	Chum	4.6	7.4
			27	Chum	4.9	7.3
			28	Chum	4.2	7.3
			29	Chum	4.4	7.5
			30	Chum	4.0	7.5
			31	Chum	4.4	7.5
			32	Chum	4.4	7.6
			33	Chum	4.7	7.6
			34	Chum	4.8	8.7

Listing of Dissolved Gas Decay Data

(Discharge listed x 10000 cfs- Satrometer (Sat.) readings in mmHg)

River Miles	Above Mouth	Below D.C.	% Saturation	Discharge	Sat.	Temp.	Date	Year	Time	Barometer
	161.3	-10.2	101.08	14.8	751	11.4	6.12	81		733
	153.2	-2.1	105.03	14.8	784	11.1	6.12	81		737
	151.3	-.2	102.73	14.8	769	11	6.12	81		739
	149	2.1	108.72	14.8	815	10.2	6.12	81		741
	148.5	2.6	108.31	14.8	812	10.2	6.12	81		741
	161.3	-10.2	100.66	32.3	715	10.3	8.05	81		701
	159.9	-8.8	110.20	32.3	783	10.2	8.05	81		702
	157.6	-6.5	111.18	32.3	790	10.4	8.05	81		702
	155.6	-4.5	113.18	32.3	804	10.4	8.05	81		702
	151.3	-.2	105.36	32.3	750	10.1	8.05	81		703
	150.6	.5	114.99	32.3	818	10.6	8.05	81		703
	149	2.1	116.96	32.3	833	10.6	8.05	81		704
	146.5	4.6	113.82	32.3	812	10.6	8.05	81		705
	102.5	48.6	100.61	34.2	737	9	8.20	81		724
	120	31.1	103.31	34.2	752	8.3	8.20	81		720
	130.6	20.5	107.13	41.3	779	8	8.21	81		720
	136.5	14.6	108.49	41.3	791	8	8.21	81		722
	Slough 20		106.97	41.3	780	8	8.21	81		722
	138.3	12.8	108.91	41.3	794	8	8.21	81		722
	149.8	1.3	101.56	14.2	742	7.3	9.10	81		723
	148.5	2.6	107.68	14.3	784	7.1	9.11	81		721
	146.5	4.6	107.13	14.3	780	7.2	9.11	81		721
	139.3	11.8	103.80	14.3	757	7.1	9.11	81		722
	138.3	12.8	102.96	14.3	752	7.1	9.11	81		723
	136.5	14.6	103.22	14.3	754	7.3	9.11	81		723
	148.5	2.6	109.10	14.1	793	6.9	9.12	81		720
	146.5	4.6	108.13	14.1	786	6.9	9.12	81		720
	142.2	8.9	107.13	14.1	780	7.1	9.12	81		721
	139.3	11.8	104.20	14.1	760	7.6	9.12	81		722
	138.3	12.8	102.95	14.1	751	7.6	9.12	81		722
	136.5	14.6	102.67	14.1	749	7.7	9.12	81		722
	139.3	11.8	102.92	13.2	761	7.2	9.13	81		732
	138.3	12.8	102.10	13.2	755	7.1	9.13	81		732
	136.5	14.6	102.92	13.2	761	7.1	9.13	81		732
	135.6	15.5	103.06	13.2	762	7.2	9.13	81		732
	130.6	20.5	102.71	12.7	753	6.6	9.14	81		726
	133.4	17.7	102.98	12.7	755	6.7	9.14	81		726
	134.9	16.2	101.89	12.7	747	6.6	9.14	81		726
	136.5	14.6	101.21	12.7	742	6.4	9.14	81		726
	149.6	1.5	110.88	16	826	7.7	9.02	82	1318	738
	149	2.1	110.61	16	824	7.8	9.02	82	1327	738
	148.5	2.6	109.12	16	813	7.9	9.02	82	1335	738
	147.2	3.9	108.98	16	812	7.8	9.02	82	1348	738
	146.5	4.6	108.98	16	812	7.8	9.02	82	1352	738
	145.9	5.2	108.58	16	809	7.9	9.02	82	1406	738
	144.8	6.3	108.04	16	805	7.9	9.02	82	1418	738
	138.2	12.9	106.08	16	791	8.1	9.02	82	1537	738
	137.3	13.8	106.21	16	792	8.2	9.02	82	1545	738
	136.9	14.2	106.07	16	791	8.2	9.02	82	1550	738
	136.3	14.8	105.80	16	789	8.3	9.02	82	1558	738
	Gold Creek		100.31	16	748	7.9	9.02	82	1633	738
	144.5	6.6	108.17	16	806	7.9	9.02	82	1422	738
	143.9	7.2	107.36	16	800	7.9	9.02	82	1428	738
	143.2	7.9	106.76	16	796	8.1	9.02	82	1439	738
	142.3	8.8	107.22	16	799	8	9.02	82	1447	738
	141.8	9.3	107.09	16	798	7.9	9.02	82	1452	738
	141	10.1	106.76	16	796	8.1	9.02	82	1503	738
	140.6	10.5	106.76	16	796	8.1	9.02	82	1511	738
	140.1	11	106.63	16	795	8.1	9.02	82	1513	738
	139.7	11.4	106.75	16	796	8.2	9.02	82	1518	738
	139.4	11.7	106.19	16	792	8.4	9.02	82	1524	738
	138.5	12.6	105.93	16	790	8.2	9.02	82	1534	738
	144.5	6.6	111.51	32.5	834	7.8	9.16	82	1347	741
	149.6	1.5	113.00	32.5	845	7.8	9.16	82	1245	741
	146.8	4.3	111.92	32.5	837	7.6	9.16	82	1320	741
	146.5	4.6	111.78	32.5	836	7.6	9.16	82	1328	741
	145.5	5.6	111.78	32.5	836	7.8	9.16	82	1338	741
	144.8	6.3	111.38	32.5	833	7.8	9.16	82	1345	741
	143.2	7.9	110.97	32.5	830	7.8	9.16	82	1401	741
	141.8	9.3	110.16	32.5	824	7.7	9.16	82	1421	741
	140.5	10.6	109.62	32.5	820	7.7	9.16	82	1429	741
	139.7	11.4	109.49	32.5	819	7.7	9.16	82	1443	741
	139.4	11.7	109.35	32.5	818	7.7	9.16	82	1447	741
	138.2	12.9	109.35	32.5	818	7.7	9.16	82	1501	741
	137.4	13.7	108.95	32.5	815	7.7	9.16	82	1507	741
	136.3	14.8	108.41	32.5	811	7.7	9.16	82	1517	741
	Gold Creek		100.42		751	5.7	9.16	82	1545	741

APPENDIX 4-0-2

Dissolved gas analytical methods Appendix.

From Bouck, 1982.

The following formula were used to calculate the various components of the dissolved gas values presented in this report.

Data: Saturated or Tensionometer Readings (mm Hg.) - S
Barometric pressure (mm Hg.) - B
Water temperature (Cent.) - T
Dissolved Oxygen - Initial study (mg./l.) - DO
Bunsen Solubility Coefficient for oxygen - b
(Table lookup value from Weiss, 1970)
Water vapor pressure value - w
(Table lookup values from Weast, 1976)

Total Dissolved gas saturation = $100 \times (S-B)/B$

Total Dissolved gas saturation less water vapor = $100 \times (S-B-w)/B$
(Value reported in this report as Total Dissolved Gas Supersaturation)

Oxygen pressure = $(DO \times .7 \text{ ml/l.} / b \times 1000 \text{ ml/l.}) \times 760 \text{ mm Hg.}$

Oxygen % saturation = $\text{Oxygen pressure} \times 100 / B - w \times .2095$

Nitrogen pressure = $9877 \times (S - \text{Oxygen pressure} - w)$

Nitrogen saturation (N%) = $\text{Nitrogen pressure} \times 100 / ((.78) \times (B - w))$

References:

Weast, R.C. editor. 1976. Handbook of Chemistry and Physics, 57th edition. CRC Press, Cleveland, Ohio.

Weiss, R.F. 1970 Solubility of nitrogen and oxygen water and seawater. Deep - Sea Research 17: 721-735

Appendix Table 4-D-3

REGRESSION ANALYSIS
 HEADER DATA FOR: F:\DCASSUM LABEL: FINAL TOTAL DATA FILE
 NUMBER OF CASES: 59 NUMBER OF VARIABLES: 6
 ANALYSIS OF RESIDUALS SORTED BY DISTANCE

CASE	NAME	MEAN	STD. DEV.
1	MILE	9.536	7.557
2	Q	21,983.051	9,130.620
3	CO	7.396	5.237
4	TEMP	8.092	1.004
5	SATZ	7.853	2.929
6	DEP. VAR., LNSAT	1.964	0.515

F TO ENTER = 0, F TO REMOVE = 0, TOLERANCE = 0.0000

DEPENDENT VARIABLE: LNSAT

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 56)	PARTIAL r^2
MILE	-0.0642	0.0034	344.703	0.8609
Q	0.0000	0.0000	109.406	0.6414
CONSTANT	1.9280			

STD. ERROR OF EST. = 0.1893
 R SQUARED = 0.8696
 MULTIPLE R = 0.9325

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	13.3874	2	6.6937	186.7367
RESIDUAL	2.0074	56	0.0358	
TOTAL	15.3947	58		

HEADER DATA FOR: F:\DCASSUM LABEL: FINAL TOTAL DATA FILE
 NUMBER OF CASES: 59 NUMBER OF VARIABLES: 6

			STANDARDIZED RESIDUALS									
			2.0	0	2.0							
OBSERVED	CALCULATED	RESIDUAL -2.0				MILE	Q	CO	TEMP	SATZ	LNSAT	
1	2.105	2.267	-0.162			1	1.30	14200.00	0.00	7.30	8.21	2.11
2	2.251	2.308	-0.057			2	1.50	16000.00	10.08	7.70	9.50	2.25
3	2.219	2.326	-0.106			3	1.50	16600.00	10.27	12.00	9.20	2.22
4	2.565	2.799	-0.234			4	1.50	32500.00	13.86	7.80	13.00	2.56
5	2.175	2.234	-0.059			5	2.10	14800.00	0.00	10.23	8.80	2.12
6	2.219	2.769	-0.550			6	2.10	16000.00	10.08	7.80	9.20	2.22
7	2.814	2.754	0.059			7	2.10	32300.00	0.00	10.60	16.67	2.81
8	2.208	2.237	-0.029			8	2.60	18000.00	10.08	7.90	9.10	2.21
9	2.028	2.187	-0.159			9	2.60	14300.00	0.00	7.10	7.60	2.03
10	2.128	2.202	-0.073			10	2.60	14600.00	0.00	10.20	8.40	2.13
11	2.197	2.181	0.017			11	2.60	14100.00	0.00	6.90	9.80	2.20
12	2.186	2.154	0.032			12	3.90	16000.00	10.08	7.80	8.90	2.19
13	2.477	2.619	-0.143			13	4.30	32500.00	13.86	7.60	11.90	2.48
14	1.953	2.058	-0.105			14	4.60	14300.00	0.00	7.20	7.05	1.95
15	2.460	2.400	-0.060			15	4.60	32500.00	13.86	7.60	11.70	2.46
16	2.608	2.594	0.014			16	4.60	32300.00	0.00	10.60	13.57	2.61
17	2.084	2.057	0.027			17	4.60	14100.00	0.00	6.90	8.04	2.08
18	2.186	2.109	0.077			18	4.60	16000.00	10.08	7.80	8.90	2.19
19	2.140	2.070	0.070			19	5.20	16000.00	10.08	7.90	8.50	2.14
20	2.460	2.536	-0.076			20	5.60	32500.00	13.86	7.80	11.70	2.46
21	2.079	2.000	0.080			21	6.30	16000.00	10.08	7.90	8.00	2.08
22	2.425	2.491	-0.066			22	6.30	32500.00	13.86	7.80	11.30	2.42
23	2.442	2.471	-0.029			23	6.60	32500.00	13.86	7.80	11.50	2.44
24	2.079	1.981	0.099			24	6.60	16000.00	10.08	7.90	8.00	2.08
25	1.988	1.942	0.046			25	7.20	16000.00	10.08	7.90	7.30	1.99
26	2.389	2.388	0.001			26	7.90	32500.00	13.86	7.80	10.90	2.39
27	1.917	1.897	0.020			27	7.90	16000.00	10.08	8.10	6.80	1.92
28	1.974	1.839	0.135			28	8.80	16000.00	10.08	8.00	7.20	1.97
29	1.954	1.776	0.178			29	8.90	14100.00	0.00	7.10	7.06	1.95
30	1.946	1.807	0.139			30	9.30	16000.00	10.08	7.90	7.00	1.95
31	2.313	2.298	0.014			31	9.30	32500.00	13.86	7.70	10.10	2.31
32	1.917	1.756	0.161			32	10.10	16000.00	10.08	8.10	6.80	1.92
33	1.917	1.730	0.187			33	10.50	16000.00	10.08	8.10	6.80	1.92
34	2.262	2.215	0.047			34	10.60	32500.00	13.86	7.70	9.60	2.26
35	1.887	1.696	0.189			35	11.00	16000.00	10.08	8.10	6.60	1.89
36	1.917	1.673	0.244			36	11.40	16000.00	10.08	8.20	6.80	1.92
37	2.241	2.163	0.077			37	11.40	32500.00	13.86	7.70	9.40	2.24
38	1.825	1.653	0.171			38	11.70	16000.00	10.08	8.40	6.20	1.82
39	2.230	2.144	0.086			39	11.70	32500.00	13.86	7.70	9.30	2.23
40	1.471	1.590	-0.119			40	11.80	14100.00	0.00	7.60	4.14	1.42
41	1.374	1.596	-0.222			41	11.80	14300.00	0.00	7.10	3.76	1.32
42	1.792	1.595	0.196			42	12.60	16000.00	10.08	8.20	6.00	1.79
43	2.171	2.335	-0.164			43	12.80	41300.00	0.00	8.00	8.77	2.17
44	1.068	1.576	-0.458			44	12.80	14100.00	0.00	7.60	2.91	1.07
45	1.099	1.537	-0.433			45	12.80	14300.00	0.00	7.10	3.00	1.10
46	1.808	1.576	0.232			46	12.90	16000.00	10.08	8.10	6.10	1.81
47	2.230	2.067	0.163			47	12.90	32500.00	13.86	7.70	9.30	2.23
48	2.186	2.014	0.170			48	13.70	32500.00	13.86	7.70	8.90	2.19
49	1.825	1.518	0.306			49	13.80	16000.00	10.08	8.20	6.20	1.82
50	1.808	1.493	0.315			50	14.20	16000.00	10.08	8.20	6.10	1.81
51	1.160	1.417	-0.257			51	14.60	14300.00	0.00	7.30	3.19	1.16
52	0.963	1.411	-0.447			52	14.60	14100.00	0.00	7.70	2.62	0.96
53	2.123	2.270	-0.096			53	14.60	41300.00	0.00	8.00	8.36	2.12
54	2.116	1.945	0.171			54	14.80	32500.00	13.86	7.70	8.30	2.12
55	1.224	1.472	-0.248			55	14.80	16600.00	10.27	11.00	3.40	1.22
56	1.758	1.454	0.304			56	14.80	16000.00	10.08	8.30	5.80	1.76
57	1.946	1.841	0.105			57	20.50	41300.00	0.00	8.00	7.00	1.95
58	1.185	0.950	0.235			58	31.10	34200.00	0.00	8.30	3.27	1.18
59	-0.511	-0.173	-0.338			59	48.60	34200.00	0.00	8.00	-0.80	-0.51

Appendix Table 4-0-3 (Continued)

REGRESSION ANALYSIS
 DATA FOR: F:DCASHIII LABEL: DCAS DATA FROM 11.8 TO 48.6
 NUMBER OF CASES: 20 NUMBER OF VARIABLES: 6
 SOURCE RIVER DATA RESIDUAL ANALYSIS BY UNSAT SORT

MEAN STD. DEV.
 MILE 16.575 R.663
 Q 23,500.000 10,931.000
 CO 5.112 3.925
 TEMP 8.040 0.879
 SATZ 5.386 2.525
 LNSAT 1.535 0.643
 F TO ENTER = 0 , F TO REMOVE = 0 , TOLERANCE = 0.0000

DEPENDENT VARIABLE: UNSAT

VAR. REGRESSION COEFFICIENT STD. ERROR F(1, 17) PARTIAL r^2
 MILE -0.0703 0.0082 73.691 0.8135
 Q 0.0000 0.0000 31.769 0.6514
 CONSTANT 1.8346

STD. ERROR OF EST. = 0.2849
 R SQUARED = 0.8242
 MULTIPLE R = 0.9079

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	6.4719	2	3.2359	39.8617
RESIDUAL	1.3800	17	0.0812	
TOTAL	7.8519	19		

	OBSERVED	CALCULATED	RESIDUAL	-7.00			0		2
1	-0.511	-0.336	-0.175						
2	0.963	1.323	-0.360						
3	1.068	1.450	-0.382						
4	1.099	1.457	-0.358						
5	1.160	1.330	-0.170						
6	1.185	0.897	0.285						
7	1.724	1.400	-0.177						
8	1.324	1.528	-0.203						
9	1.421	1.520	-0.099						
10	1.258	1.378	0.379						
11	1.792	1.533	0.258						
12	1.808	1.512	0.286						
13	1.806	1.421	0.388						
14	1.825	1.449	0.376						
15	1.904	1.904	0.041						
16	2.116	1.983	0.133						
17	2.123	2.120	-0.197						
18	2.171	2.447	-0.276						
19	2.186	2.061	0.125						
20	2.230	2.117	0.113						

HEADER DATA FOR: F:DCASHIII LABEL: DCAS DATA FROM 11.8 TO 48.6
 NUMBER OF CASES: 20 NUMBER OF VARIABLES: 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MILE	48.60	16.60	12.80	12.80	14.60	31.10	16.80	11.80	16.80	12.90	12.90	14.20	13.80	20.50	16.80	14.60	13.70	12.90	12.90
Q	34200.00	14100.00	14100.00	14300.00	14300.00	34200.00	16600.00	14300.00	16000.00	16000.00	16000.00	16000.00	16000.00	41300.00	33500.00	41300.00	41300.00	33500.00	33500.00
CO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TEMP	9.00	7.70	7.60	7.10	8.30	11.00	7.10	7.60	8.30	8.20	8.10	8.20	8.20	8.00	7.70	8.00	8.00	7.70	7.70
SATZ	0.60	2.62	2.91	3.00	3.19	3.27	3.40	3.76	4.14	5.80	6.00	6.10	6.10	7.00	8.30	8.36	8.77	8.90	9.30
LNSAT	-0.51	-0.96	1.07	1.10	1.16	1.18	1.22	1.32	1.42	1.79	1.81	1.81	1.82	1.95	2.12	2.12	2.17	2.19	2.23

Appendix Table 4-D-3 (Continued)

----- REGRESSION ANALYSIS -----
 HEADER DATA FOR: F:\DCASSUM LABEL: FINAL TOTAL DATA FILE
 NUMBER OF CASES: 59 NUMBER OF VARIABLES: 6

TOTAL DATA REGRESSION ANALYSIS SORTED BY LMSAT (DEPENDENT)

INDEX	NAME	MEAN	STD. DEV.
1	MILE	9.636	7.352
2	Q	21,983.051	9,150.620
3	CO	7.396	5.737
4	TEMP	8.092	1.004
5	SATZ	7.853	2.929
DEP. VAR.: LMSAT		1.964	0.515

F TO ENTER = 0, F TO REMOVE = 0, TOLERANCE = 0.0000

DEPENDENT VARIABLE: LMSAT

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 56)	PARTIAL R ²
MILE	-0.0642	0.0034	344.703	0.8609
Q	0.0000	0.0000	109.406	0.6614
CONSTANT	1.9280			

STD. ERROR OF EST. = 0.1893
 R SQUARED = 0.8696
 MULTIPLE R = 0.9325

HEADER DATA FOR: F:\DCASSUM LABEL: FINAL TOTAL DATA FILE
 NUMBER OF CASES: 59 NUMBER OF VARIABLES: 6

OBSERVED	CALCULATED	RESIDUAL -2.0	STANDARDIZED RESIDUALS	0	2.0	MILE	Q	CO	TEMP	SATZ	LMSAT	
1	-0.511	-0.173	-0.338	1		1	48.60	34200.00	0.00	9.00	0.60	-0.51
2	0.963	1.411	-0.447	2		2	14.60	14100.00	0.00	7.70	2.62	0.96
3	1.068	1.526	-0.458	3		3	12.80	14100.00	0.00	7.60	2.91	1.07
4	1.099	1.532	-0.433	4		4	12.80	14300.00	0.00	7.10	3.00	1.10
5	1.160	1.617	-0.257	5		5	14.60	14300.00	0.00	7.30	3.19	1.16
6	1.185	0.950	0.235	6		6	31.10	34200.00	0.00	8.30	3.27	1.18
7	1.224	1.472	-0.248	7		7	14.80	16600.00	10.27	11.00	3.40	1.22
8	1.324	1.596	-0.272	8		8	11.80	14300.00	0.00	7.10	3.76	1.32
9	1.421	1.590	-0.170	9		9	11.90	14100.00	0.00	7.60	4.14	1.42
10	1.758	1.454	0.304	10		10	14.80	16000.00	10.05	8.30	5.80	1.76
11	1.792	1.595	0.196	11		11	12.60	16000.00	10.08	8.20	6.00	1.79
12	1.808	1.493	0.315	12		12	14.70	16000.00	10.08	8.20	6.10	1.81
13	1.808	1.576	0.232	13		13	12.90	16000.00	10.08	8.10	6.10	1.81
14	1.825	1.653	0.171	14		14	11.70	16000.00	10.08	8.40	6.20	1.82
15	1.825	1.518	0.306	15		15	13.80	16000.00	10.08	8.20	6.20	1.82
16	1.887	1.698	0.189	16		16	11.00	16000.00	10.08	8.10	6.60	1.89
17	1.917	1.897	0.020	17		17	7.90	16000.00	10.08	8.10	6.80	1.92
18	1.917	1.756	0.161	18		18	10.10	16000.00	10.08	8.10	6.80	1.92
19	1.917	1.673	0.244	19		19	11.40	16000.00	10.08	8.20	6.80	1.92
20	1.917	1.730	0.187	20		20	10.50	16000.00	10.08	8.10	6.80	1.92
21	1.946	1.807	0.139	21		21	9.30	16000.00	10.08	7.90	7.00	1.95
22	1.946	1.841	0.105	22		22	20.50	41300.00	0.00	8.00	7.00	1.95
23	1.953	2.058	-0.105	23		23	6.60	14300.00	0.00	7.20	7.05	1.95
24	1.954	1.776	0.178	24		24	8.90	14100.00	0.00	7.10	7.06	1.95
25	1.974	1.839	0.135	25		25	8.80	16000.00	10.08	8.00	7.20	1.97
26	1.988	1.942	0.046	26		26	7.70	16000.00	10.08	7.90	7.30	1.99
27	2.028	2.187	-0.159	27		27	2.60	14300.00	0.00	7.10	7.60	2.03
28	2.079	1.981	0.099	28		28	6.60	16000.00	10.08	7.90	8.00	2.06
29	2.079	2.000	0.080	29		29	6.30	16000.00	10.08	7.90	8.00	2.08
30	2.084	2.052	0.032	30		30	6.60	14100.00	0.00	6.90	8.04	2.08
31	2.105	2.267	-0.162	31		31	1.30	14200.00	0.00	7.30	8.21	2.11
32	2.116	1.945	0.171	32		32	12.80	32500.00	13.86	7.20	8.30	2.12
33	2.123	2.220	-0.096	33		33	14.60	41300.00	0.00	6.00	8.36	2.12
34	2.128	2.202	-0.073	34		34	2.60	14800.00	0.00	10.20	6.40	2.13
35	2.140	2.070	0.070	35		35	5.70	16000.00	10.08	7.90	8.50	2.14
36	2.171	2.325	-0.164	36		36	12.80	41300.00	0.00	6.00	8.57	2.17
37	2.175	2.234	-0.059	37		37	2.10	14800.00	0.00	10.73	8.80	2.17
38	2.186	2.109	0.077	38		38	4.60	16000.00	10.08	7.80	8.90	2.19
39	2.186	2.154	0.032	39		39	3.90	16000.00	10.08	7.80	8.90	2.19
40	2.186	2.016	0.170	40		40	13.70	32500.00	13.86	7.70	8.90	2.19
41	2.197	2.181	0.017	41		41	2.60	14100.00	0.00	6.90	9.00	2.20
42	2.208	2.237	-0.029	42		42	2.60	16000.00	10.08	7.90	9.10	2.21
43	2.219	2.326	-0.106	43		43	1.50	16600.00	10.27	12.00	9.20	2.22
44	2.230	2.067	0.163	44		44	2.10	16000.00	10.08	7.80	9.20	2.22
45	2.230	2.144	0.086	45		45	12.90	32500.00	13.86	7.70	9.30	2.23
46	2.241	2.163	0.077	46		46	11.70	32500.00	13.86	7.70	9.30	2.23
47	2.241	2.163	0.077	47		47	11.40	22500.00	13.86	2.70	9.40	2.24
48	2.251	2.308	-0.057	48		48	1.50	16000.00	10.08	7.70	9.50	2.25
49	2.262	2.215	0.047	49		49	10.60	32500.00	13.86	7.70	9.60	2.26
50	2.313	2.298	0.014	50		50	9.30	32500.00	13.86	7.70	10.10	2.31
51	2.389	2.388	0.001	51		51	7.90	32500.00	13.86	7.80	10.90	2.39
52	2.425	2.491	-0.064	52		52	6.30	32500.00	13.86	7.80	11.30	2.42
53	2.442	2.471	-0.029	53		53	6.60	32500.00	13.86	7.80	11.50	2.44
54	2.460	2.536	-0.076	54		54	5.60	32500.00	13.86	7.80	11.70	2.46
55	2.460	2.600	-0.140	55		55	4.60	32500.00	13.86	7.60	11.90	2.46
56	2.472	2.619	-0.145	56		56	4.30	32500.00	13.86	7.80	13.00	2.46
57	2.565	2.799	-0.234	57		57	1.50	32500.00	0.00	10.60	13.57	2.61
58	2.608	2.594	0.014	58		58	4.60	32300.00	0.00	10.60	16.67	2.81
59	2.814	2.734	0.059	59		59	2.10	32300.00	0.00	10.60	16.67	2.81

MORRIS-WATSON TEST = 0.8168

Appendix Table 4-D-3 *Continued*

----- REGRESSION ANALYSIS -----
 HEADER DATA FOR: F:DCASHIL LABEL: GAS DATA FROM MILE 0 TO 11.8
 NUMBER OF CASES: 39 NUMBER OF VARIABLES: 6

RESIDUAL ANALYSIS OF UPPER RIVER SORTED BY LMSAT

INDEX	NAME	MEAN	STD. DEV.
1	MILE	6.103	3.427
2	Q	21,164.103	8,125.930
3	CO	8.586	5.341
4	TEMP	8.119	1.092
5	SATZ	9.118	2.250
6	LMSAT	2.184	0.228

F TO ENTER = 0, F TO REMOVE = 0, TOLERANCE = 0.0000

DEPENDENT VARIABLE: LMSAT

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 36)	PARTIAL r^2
MILE	-0.0323	0.0029	167.347	0.8185
Q	0.0000	0.0000	390.234	0.9155
CONSTANT	1.8955			

STD. ERROR OF EST. = 0.0612
 R SQUARED = 0.9318
 MULTIPLE R = 0.9653

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	1.8416	2	0.9208	246.0847
RESIDUAL	0.1347	36	0.0037	
TOTAL	1.9763	38		

HEADER DATA FOR: F:DCASHIL LABEL: GAS DATA FROM MILE 0 TO 11.8
 NUMBER OF CASES: 39 NUMBER OF VARIABLES: 6

	OBSERVED	CALCULATED	RESIDUAL -2.0	STANDARDIZED RESIDUALS		MILE	Q	CO	TEMP	SATZ	LMSAT
1	1.825	1.849	-0.025		1	11.70	16000.00	10.06	8.40	6.20	1.87
2	1.687	1.875	0.012		2	11.00	16000.00	10.08	8.10	6.60	1.89
3	1.917	1.909	0.006		3	10.10	16000.00	10.08	8.10	6.80	1.92
4	1.917	1.861	0.056		4	11.40	16000.00	10.06	8.20	6.80	1.92
5	1.917	1.894	0.023		5	10.50	16000.00	10.08	8.10	6.80	1.92
6	1.917	1.991	-0.074		6	7.90	16000.00	10.03	8.10	6.80	1.92
7	1.944	1.939	0.005		7	9.30	16000.00	10.08	7.90	7.00	1.95
8	1.953	2.072	-0.119		8	4.60	14300.00	0.00	7.20	7.05	1.95
9	1.954	1.907	0.047		9	8.90	14100.00	0.00	7.10	7.06	1.95
10	1.974	1.957	0.017		10	8.80	16000.00	10.08	8.00	7.20	1.97
11	1.988	2.017	-0.029		11	7.70	16000.00	10.08	7.90	7.30	1.99
12	2.028	2.147	-0.119		12	2.60	14300.00	0.00	7.10	7.60	2.03
13	2.079	2.051	0.029		13	6.30	16000.00	10.06	7.90	8.00	2.06
14	2.079	2.039	0.040		14	6.60	16000.00	10.08	7.90	8.00	2.06
15	2.084	2.068	0.017		15	4.60	14100.00	0.00	6.90	8.04	2.08
16	2.105	2.193	-0.088		16	1.30	14200.00	0.00	7.30	8.21	2.11
17	2.128	2.159	-0.031		17	2.60	14800.00	0.00	10.20	6.40	2.13
18	2.140	2.092	0.049		18	5.70	16000.00	10.08	7.90	8.30	2.14
19	2.175	2.176	-0.003		19	2.10	14800.00	0.00	10.23	8.80	2.17
20	2.186	2.114	0.072		20	4.60	16000.00	10.08	7.80	8.90	2.19
21	2.186	2.140	0.046		21	3.90	16000.00	10.08	7.80	8.90	2.19
22	2.197	2.142	0.055		22	7.60	14100.00	0.00	6.90	9.00	2.20
23	2.208	2.188	0.020		23	2.60	16000.00	10.08	7.90	9.10	2.21
24	2.219	2.244	-0.025		24	1.50	16600.00	10.27	12.00	9.20	2.22
25	2.219	2.207	0.012		25	2.10	16000.00	10.08	7.80	9.20	2.22
26	2.230	2.251	-0.021		26	11.70	32500.00	13.86	7.70	9.30	2.23
27	2.241	2.263	-0.022		27	11.40	32500.00	13.86	7.70	9.40	2.24
28	2.251	2.229	0.022		28	1.50	16000.00	10.08	7.70	9.50	2.25
29	2.262	2.292	-0.031		29	10.60	32500.00	13.86	7.30	9.60	2.26
30	2.313	2.341	-0.028		30	9.30	32500.00	13.86	7.70	10.10	2.31
31	2.389	2.393	-0.004		31	7.90	32500.00	13.86	7.80	10.90	2.39
32	2.425	2.452	-0.028		32	6.30	32500.00	13.86	7.80	11.30	2.42
33	2.442	2.441	0.001		33	6.60	32500.00	13.86	7.80	11.50	2.44
34	2.460	2.516	-0.056		34	4.60	32500.00	13.86	7.60	11.70	2.46
35	2.460	2.479	-0.019		35	5.60	32500.00	13.16	7.60	11.70	2.46
36	2.477	2.527	-0.050		36	4.30	32500.00	13.86	7.60	11.90	2.46
37	2.505	2.631	-0.066		37	1.50	32500.00	13.86	7.60	13.00	2.50
38	2.608	2.511	0.097		38	4.60	32500.00	0.00	10.60	13.57	2.61
39	2.814	2.604	0.210		39	2.10	32500.00	0.00	10.60	16.67	2.81

DURBIN-WATSON TEST = 1.3747

----- REGRESSION ANALYSIS -----
 HEADER DATA FOR: F:DGASHM LABEL: DGAS DATA FROM 11.8 TO 48.6
 NUMBER OF CASES: 20 NUMBER OF VARIABLES: 6

RESIDUAL PLOT OF SORTED DATA BELOW RIVER MILE 11.8

INDEX	NAME	MEAN	STD.DEV.
1	MILE	16.525	8.663
2	Q	23,580.000	10,931.000
3	CO	5.112	5.925
4	TEMP	8.040	0.829
5	SATZ	5.386	2.525
DEP. VAR.: LNSAT		1.535	0.643

F TO ENTER = 0 , F TO REMOVE = 0 , TOLERANCE = 0.0000

DEPENDENT VARIABLE: LNSAT

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 17)	PARTIAL r^2
MILE	-0.0705	0.0082	73.691	0.8125
Q	0.0000	0.0000	31.769	0.6514
CONSTANT:	1.8346			

STD. ERROR OF EST. = 0.2849
 R SQUARED = 0.8242
 MULTIPLE R = 0.9079

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	6.4719	2	3.2359	39.8617
RESIDUAL	1.3800	17	0.0812	
TOTAL	7.8519	19		

HEADER DATA FOR: F:DGASHM
 NUMBER OF CASES: 20

LABEL: DGAS DATA FROM 11.8 TO 48.6
 NUMBER OF VARIABLES: 6

	OBSERVED	CALCULATED	RESIDUAL	STANDARDIZED RESIDUALS	MILE	Q	CO	TEMP	SATZ	LNSAT
1	1.324	1.528	-0.203		11.80	14300.00	0.00	7.10	3.76	1.32
2	1.421	1.520	-0.099		11.80	14100.00	0.00	7.60	4.14	1.42
3	1.792	1.533	0.258		12.60	16000.00	10.08	8.20	6.00	1.79
4	1.099	1.457	-0.358		12.80	14300.00	0.00	7.10	3.00	1.10
5	2.171	2.447	-0.276		12.80	41300.00	0.00	8.00	8.77	2.17
6	1.068	1.450	-0.382		12.80	14100.00	0.00	7.60	2.91	1.07
7	2.230	2.117	0.113		12.90	32500.00	13.86	7.70	9.30	2.23
8	1.808	1.512	0.296		12.90	16000.00	10.08	8.10	6.10	1.81
9	2.186	2.061	0.125		13.70	32500.00	13.86	7.70	8.90	2.19
10	1.825	1.449	0.376		13.80	16000.00	10.08	8.20	6.20	1.82
11	1.808	1.421	0.388		14.20	16000.00	10.08	8.20	6.10	1.81
12	0.963	1.323	-0.360		14.60	14100.00	0.00	7.70	2.62	0.96
13	1.160	1.330	-0.170		14.60	14300.00	0.00	7.30	3.19	1.16
14	2.123	2.320	-0.197		14.60	41300.00	0.00	8.00	8.36	2.12
15	1.758	1.378	0.379		14.80	16000.00	10.08	8.30	5.80	1.76
16	2.116	1.983	0.133		14.80	32500.00	13.86	7.70	8.30	2.12
17	1.224	1.400	-0.177		14.80	16600.00	10.27	11.00	3.40	1.22
18	1.946	1.904	0.041		20.50	41300.00	0.00	8.00	7.00	1.95
19	1.185	0.897	0.288		31.10	34200.00	0.00	8.30	3.27	1.18
20	-0.511	-0.336	-0.175		48.60	34200.00	0.00	9.00	0.60	-0.51

DURBIN-WATSON TEST = 1.6759

Appendix Table 4-D-3 (continued)

TOTAL DATA SORTED BY DISCHARGE									
INDEX	NAME	MEAN	STD. DEV.	VAR.	DEPENDENT VARIABLE: LBSAFT	REGRESSION COEFFICIENT	STD. ERROR	F (1, 56)	PARTIAL R ²
CONSTANT: 1.9280									
STD. ERROR OF EST. = 0.0893									
R SQUARED = 0.9696									
MULTIPLE R = 0.9848									
ANALYSIS OF VARIANCE TABLE									
SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO	HEADER DATA FOR: P-CROSSUM	NUMBER OF CASES: 59	NUMBER OF VARIABLES: 6	LABEL: FINAL TOTAL DATA FILE	TOTAL
REGRESSION	17.874	56	0.3192	186.7367					17.874
RESIDUAL	2.0076	56	0.0358						2.0076
TOTAL	19.8816	112							19.8816
1	1.068	1	1.068	6.44	12.80	14100.00	0.00	7.60	2.91
2	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
3	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
4	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
5	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
6	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
7	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
8	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
9	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
10	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
11	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
12	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
13	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
14	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
15	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
16	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
17	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
18	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
19	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
20	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
21	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
22	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
23	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
24	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
25	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
26	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
27	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
28	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
29	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
30	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
31	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
32	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
33	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
34	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
35	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
36	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
37	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
38	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
39	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
40	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
41	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
42	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
43	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
44	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
45	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
46	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
47	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
48	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
49	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
50	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
51	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
52	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
53	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
54	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
55	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
56	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
57	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
58	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82
59	0.963	1	0.963	5.94	14.60	14100.00	0.00	7.70	2.82

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      *** REGRESSION ANALYSIS ***
      DATA FOR 1 OBSERV   LABEL GAS DATA FROM FILE 0 TO 14
      INDEX OF CASES      19      NUMBER OF VARIABLES      6
      -----
      GAS REGRESSION TO FIVERFILE 11.8

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ITEM	NAME	PLAN	STD.DLV.
1	MILE	6.103	3.427
2	Q	71,164.103	8,125.930
3	CO	5.566	5.341
4	TEMP	8.119	1.092
5	SAT	9.118	2.250
GPP - YAK	LKSAT	2.186	0.228

I TO EDITL = 0 , F TO REMOVE = 0 , TOLERANCE = 0.0000

DEPENDENT VARIABLE: LNSAT

VAR.	REGRESSION COEFFICIENT	STO. ERROR	F(1, 36)	PARTIAL r^2
MILE	-0.0373	0.0029	162.367	0.819
Q	0.0000	0.0000	390.234	0.916
CONSTANT:	1.8955			

STD. ERROR OF EST. =	0.061
R SQUARED =	0.9318
MULTIPLE R =	0.9653

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	1.8416	2	0.9208	246.085
RESIDUAL	0.1347	36	0.0037	
TOTAL	1.9763	38		

HEADER DATA FOR: F:DCASHIL --LABEL: GAS DATA FROM: MILE 0 TO 11.8
NUMBER OF CASES: 39 NUMBER OF VARIABLES: 6

	OBSERVED	CALCULATED	RESIDUAL	-2.0	0	2.0		MILE	Q	CO	TDRP	BATZ	UNSAT
1	2.105	2.193	-0.088				1	1.30	14200.00	0.00	7.30	8.21	2.11
2	2.219	2.244	-0.025				2	1.50	14400.00	10.27	12.00	9.20	2.22
3	2.251	2.229	0.022				3	1.50	14000.00	10.08	7.70	9.50	2.25
4	2.255	2.231	-0.064				4	1.50	32500.00	13.86	7.80	13.00	2.56
5	2.219	2.207	0.012				5	2.10	14000.00	10.08	7.80	9.20	2.22
6	2.814	2.604	0.210				6	2.10	32300.00	0.00	10.60	16.67	2.61
7	2.175	2.178	-0.003				7	2.10	14600.00	0.00	10.23	8.80	2.17
8	2.208	2.188	0.020				8	2.60	16000.00	10.08	7.90	9.10	2.21
9	2.028	2.147	-0.119				9	2.60	14300.00	0.00	7.10	7.60	2.03
10	2.157	2.142	0.055				10	2.60	14100.00	0.00	6.90	9.00	2.20
11	2.172	2.159	-0.031				11	2.60	14000.00	0.00	10.20	8.40	2.13
12	2.186	2.140	0.046				12	3.90	14000.00	10.08	7.80	8.90	2.19
13	2.477	2.527	-0.050				13	4.30	32500.00	13.86	2.60	11.90	2.46
14	2.084	2.068	0.017				14	4.60	14100.00	0.00	6.90	8.04	2.06
15	1.953	2.072	-0.119				15	4.60	14300.00	0.00	7.20	7.05	1.95
16	2.608	2.511	0.097				16	4.60	32300.00	0.00	10.60	13.57	2.61
17	2.460	2.516	-0.056				17	4.60	32500.00	13.86	7.60	11.70	2.46
18	2.186	2.114	0.072				18	4.60	16000.00	10.08	7.80	8.90	2.19
19	2.140	2.092	0.049				19	5.20	16000.00	10.08	7.80	8.90	2.14
20	2.460	2.479	-0.019				20	5.60	32500.00	13.86	7.80	11.70	2.46
21	2.029	2.051	0.029				21	6.30	16000.00	10.08	7.90	8.00	2.08
22	2.425	2.452	-0.028				22	6.30	32500.00	13.86	7.80	11.30	2.42
23	2.442	2.441	0.001				23	6.60	32500.00	13.86	7.80	11.50	2.44
24	2.079	2.039	0.040				24	6.60	16000.00	10.08	7.90	8.00	2.08
25	1.982	2.017	-0.035				25	7.20	16000.00	10.08	7.90	7.30	1.99
26	1.917	1.991	-0.074				26	7.90	16000.00	10.08	8.10	6.80	1.97
27	2.389	2.393	-0.004				27	7.90	32500.00	13.86	7.80	10.90	2.39
28	1.974	1.957	0.017				28	8.80	16000.00	10.08	8.00	7.20	1.97
29	1.954	1.907	0.047				29	8.90	14100.00	0.00	7.10	7.06	1.95
30	1.946	1.939	0.007				30	9.30	16000.00	10.08	7.90	7.90	1.95
31	2.313	2.341	-0.028				31	9.30	32500.00	13.86	7.70	10.10	2.31
32	1.917	1.909	0.008				32	10.10	16000.00	10.08	8.10	6.80	1.92
33	1.913	1.894	0.023				33	10.30	16000.00	10.08	8.10	6.80	1.92
34	2.262	2.292	-0.031				34	10.40	32500.00	13.86	7.70	9.60	2.26
35	1.887	1.875	0.012				35	11.00	16000.00	10.08	8.10	6.60	1.89
36	1.871	1.861	0.056				36	11.40	16000.00	10.08	8.20	6.80	1.92
37	2.211	2.243	-0.032				37	11.70	32500.00	13.86	7.70	9.40	2.24
38	1.871	1.869	-0.025				38	11.70	16000.00	10.08	8.40	6.20	1.82
39	2.210	2.251	-0.021				39	11.70	32500.00	13.86	7.70	9.30	2.23

DIETIN-WATSON-105T - 2,44NR

Table 4-D-4 Water Quality.

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	HydroLab Measurements					Spec. Cond. umhos/cm	Turbidity NTU
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH			
MAINSTEM ADULT ANADROMOUS FISH HABITAT INVESTIGATIONS														
5.0	Susitna River		S14N07W05DDB	820605	--	--		8.7	9.5	82	7.1	77		
5.0	Susitna River		S14N07W05DDB	820528	0935	9.5		6.1	--	--	--	--		
5.5	Susitna River		S14N07W05ADB	820528	1000	9.5		6.3	11.9	96	6.8	78		
8.5	Susitna River		S15N07W22ACA	820526	--	10.6		6.2	11.9	95	6.6	70		
11.0	Susitna River		S15N07W10DCC	820526	--	10.6		6.3	11.3	91	6.3	71		
15.0	Susitna River		S16N07W35BDD	820606	1450	10.0		7.6	10.2	87	7.1	69		
16.5	Susitna River		S16N07W35BDD	820601	1630	16.5		11.2	6.4	61	6.7	102		
16.5	Susitna River		S16N07W22DCD	820528	1215	14.5		6.8	12.0	98	6.8	73		
18.2	Susitna River		S16N07W15CDB	820601	1530	17.5		11.2	7.5	69	6.8	100		
18.3	Susitna River		S16N07W15CDB	820526	--	14.5		6.9	10.9	90	6.8	82		
19.5	Susitna River		S16N07W09DDD	820601	1430	20.0		10.0	7.9	70	6.7	72		
21.4	Susitna River		S16N07W04CAC	820601	1400	21.0		10.2	8.2	73	6.7	72		
22.8	Susitna River		S16N07W04BBA	820530	1015	14.7		6.3	12.2	100	7.0	64		
24.8	Susitna River		S17N07W28ADD	820530	0945	14.7		6.1	11.3	91	6.9	81		
25.5	Susitna River		S17N07W22CAA	820531	1615	25.5		11.1	10.3	95	7.1	95		
25.8	Susitna River		S17N07W22DCD	820601	1130	18.6		9.3	10.7	94	7.0	72		
25.9	Susitna River		S17N07W22DDA	820531	1200	16.5		9.3	10.8	95	6.7	73		
26.0	Susitna River		S17N07W22DAA	820531	1030	14.0		8.5	11.1	95	7.1	96		
26.3	Susitna River		S17N07W23CAB	820531	1300	22.0		8.8	10.9	94	7.1	66		
28.0	Susitna River		S17N07W13DBB	820605	1300	13.0		7.9	11.0	93	7.2	63		
31.1	Susitna River		S17N06W18BAA	820605	1345	12.0		7.9	11.5	97	7.2	64		
31.8	Susitna River		S17N06W05ABA	820605	1415	12.5		8.2	10.6	90	7.2	67		
35.5	Susitna River		S18N06W15CCC	820607	1445	12.0		7.1	12.3	102	7.0	51		
36.7	Susitna River		S18N06W15BDB	820530	1430	12.5		6.4	12.0	97	6.9	70		
40.6	Deshka River Mouth		S19N06W35BDA	821203	1200	--	--	-0.3	15.6	--	6.3	53		
40.6	Deshka River Mouth		S19N06W35BDA	821203	1200	--	--	-0.2	14.8	--	6.5	101		
40.6	Deshka River Mouth		S19N06W35BDA	821203	1200	--	--	-0.3	15.0	--	6.6	63		
40.6	Deshka River Mouth		S19N06W35BDA	821203	1200	--	--	-0.3	12.2	--	6.7	51		
41.3	Susitna River		S19N06W25CCD	820604	1315	16.0	--	8.3	10.8	92	7.1	46		
41.4	Susitna River		--	820603	1230	11.5	--	6.8	10.4	85	7.2	66		
42.7	Susitna River		S19N06W25AAB	820529	0955	9.5	--	6.1	12.0	96	6.8	53		
44.0	Susitna River		S19N05W20CAC	820603	--	17.5	--	8.3	12.4	104	7.5	41		
47.0	Susitna River		--	820602	1600	--	--	9.2	11.5	100	7.2	61		
49.0	Susitna River		S20N05W34CCD	820524	1115	9.5	--	6.1	12.2	99	6.9	65		
49.2	Susitna River		S20N05W34BDD	820529	1130	9.5	--	5.0	12.1	94	6.8	65		
53.0	Susitna River		S20N05W16BDB	820529	--	--	--	--	12.0	--	6.9	46		
DESIGNATED FISH HABITAT SITES														
73.1	Lower Goose 2 Slough Lower		S23N04W30BBB	820830	1620	--	--	8.7	--	--	--	50		
73.1	Q Station		S23N04W30BBB	820915	1330	--	--	7.3	--	--	--	90		
73.1	Lower Goose 2		S23N09W30BBB	820830	1400	--	8.4	8.4	--	--	--	34		
73.1	Creek Q Station		S23N09W30BBB	820915	1330	15.0	7.2	7.3	--	--	--	28		

01-01-77

Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	Hydrolab Measurements					
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
73.1	Creek Q Station		S23N09W30BBB	821001	1030	4.6	3.8	3.7	--	--	--	204	
73.1	Lower Goose 2 Slough, Upper Q Station		S23N09W30BBB	821001	1305	5.0	5.2	5.3	--	--	--	204	
DESIGNATED FISH HABITAT SITES													
73.1	Goose 2 Slough	1	S23N04W30BBB	820610	1330	12.6	5.8	--	--	--	--	3	
73.1	Goose 2 Slough	7	S23N04W30BBB	820610	1330	12.6	7.0	--	--	--	--	45	
73.1	Goose 2 Slough	4	S23N04W30BBB	820610	1345	12.6	8.0	--	--	--	--	49	
73.1	Goose 2 Slough	1	S23N04W30BBB	820625	1420	22.9	--	10.4	1.0	98	7.1	27	6
73.1	Goose 2 Slough	6	S23N04W30BBB	820625	1440	22.9	--	12.8	10.3	97	7.4	80	88
73.1	Goose 2 Slough	7	S23N04W30BBB	820625	1435	22.9	--	12.3	10.7	100	7.3	73	95
73.1	Goose 2 Slough	1	S23N04W30BBB	820713	1520	--	--	11.6	10.6	97	6.8	32	14
73.1	Goose 2 Slough	1	S23N04W30BBB	820713	1320	22.7	--	11.3	10.6	96	7.6	107	110
73.1	Goose 2 Slough	1	S23N04W30BBB	820713	1355	--	--	11.1	10.6	95	27	107	100
73.1	Goose 2 Slough	1	S23N04W30BBB	820728	1255	19.2	--	9.5	--	--	--	28	18
73.1	Goose 2 Slough	1	S23N04W30BBB	820728	1320	19.2	--	10.2	--	--	--	86	110
73.1	Goose 2 Slough	1	S23N04W30BBB	820728	1315	19.2	--	10.2	--	--	--	76	120
73.1	Goose 2 Slough	1	S23N04W30BBB	820811	1420	21.6	--	10.4	10.6	95	7.4	31	2
73.1	Goose 2 Slough	1	S23N04W30BBB	820825	1340	15.2	--	9.8	--	--	--	31	6
73.1	Goose Creek 2 Slough	6	S23N04W30BBB	820825	1600	15.0	--	10.5	8.7	78	6.7	113	98
73.1	Goose Creek 2 Slough	1	S23N04W30BBB	820913	1315	8.4	--	6.2	--	--	--	--	5
73.1	Goose Creek 2 Slough	9	S23N04W30BBB	820913	--	8.4	--	7.4	--	--	--	--	18
73.1	Goose Creek 2 Slough	3	S23N04W30BBB	820913	1245	8.4	--	6.0	--	--	--	71	26
73.1	Goose Creek 2 Slough	1	S23N04W30BBB	820928	1405	--	--	4.7	--	--	--	30	14
73.1	Goose Creek 2 Slough	9	S23N04W30BBB	820928	1430	--	--	5.5	--	--	--	179	22
73.1	Goose Creek 2 Slough	3	S23N04W30BBB	820928	1330	--	--	4.7	--	--	--	68	19

11-Q-h

Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	HydroLab Measurements					Spec. Cond. umhos/cm	Turbidity NTU
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH			
MAINSTEM ADULT ANADROMOUS FISH HABITAT INVESTIGATIONS														
77.0	Susitna River		S23N04W06ADD	82104	1130	-1.1	--	0.2	--	--	7.6	126	--	
77.4	Susitna River		S23N04W06CBB	821014	1130	-1.2	--	0.4	--	--	7.6	131	--	
DESIGNATED FISH HABITAT SITES														
78.7	Whitefish Slough		S23N05W01BBC	820916	1020	10.2	9.2	9.3	--	--	--	14	--	
	Q Site Main Tributary													
78.7	Whitefish Slough Mouth		S23N05W01BBC	820916	1020	13.2	10.1	10.2	--	--	--	19	--	
78.7	Whitefish Slough Mouth		S23N05W01BBC	821002	1515	--	--	10.7	--	--	6.1	33	--	
78.7	Whitefish Slough	2	S23N05W01BBC	820712	1420	14.9	--	16.3	8.4	86	6.8	101	46	
78.7	Whitefish Slough	2	S23N05W01BBC	820728	1745	15.8	--	16.4	--	--	--	27	18	
78.7	Whitefish Slough	3	S23N05W01BBC	820728	1735	15.8	--	10.2	--	--	--	91	120	
78.7	Whitefish Slough	2	S23N05W01BBC	820811	1620	21.4	--	15.9	10.7	108	7.3	51	--	
78.7	Whitefish Slough	3	S23N05W01BBC	820811	1640	21.4	--	9.5	11.2	98	7.6	89	86	
78.7	Whitefish Slough	2	S23N05W01BBC	820825	1700	17.0	--	14.3	8.3	81	6.8	121	25	
78.7	Whitefish Slough	3	S23N05W01BBC	820825	1710	17.0	--	9.7	11.3	100	6.5	--	11	
78.7	Whitefish Slough	2	S23N05W01BBC	820915	1315	14.3	--	9.2	--	--	--	--	--	
78.7	Whitefish Slough	3	S23N05W01BBC	820915	1320	14.3	--	7.6	--	--	--	--	--	
78.7	Whitefish Slough	2	S23N05W01BBC	820929	--	--	--	6.1	--	--	--	44	23	
78.7	Whitefish Slough	3	S23N05W01BBC	820929	1710	--	--	4.5	12.5	96	5.2	109	55	
83.1	Rabideux Creek Slough	1	S24N05W16AAC	820626	1145	21.7	--	16.6	9.3	95	6.8	37	2	
83.1	Rabideux Creek Slough	2	S24N05W16AAC	820626	1230	21.7	--	17.2	9.1	95	7.1	44	3	
83.1	Rabideux Creek Slough	8	S24N05W16AAC	820729	1329	21.7	--	15.5	9.1	91	7.4	82	85	
83.1	Rabideux Creek Slough	1	S24N05W16AAC	820626	1320	13.5	--	13.1	8.9	85	6.2	--	2	
83.1	Rabideux Creek Slough	2	S24N05W16AAC	820729	1515	--	--	13.5	9.3	89	6.6	27	4	
83.1	Rabideux Creek Slough	7	S24N05W16AAC	820729	1600	--	--	13.0	9.1	85	6.4	40	10	
83.1	Rabideux Creek Slough	1	S24N05W16AAC	820812	1155	--	--	12.6	10.0	94	6.0	27	--	
83.1	Rabideux Creek Slough	2	S24N05W16AAC	820812	1140	--	--	12.6	10.0	94	6.4	29	--	
83.1	Rabideux Creek Slough	3	S24N05W16AAC	820812	1530	--	--	9.8	11.0	97	7.5	83	--	
83.1	Rabideux Creek Slough	1	S24N05W16AAC	820826	1330	19.8	--	14.2	11.0	106	7.1	52	3	
83.1	Rabideux Creek Slough	2	S24N05W16AAC	820826	1613	19.0	--	15.6	9.2	85	7.2	69	9	
83.1	Rabideux Creek Slough	3	S24N05W16AAC	820826	1632	19.0	--	12.2	9.6	89	7.5	85	13	
83.1	Rabideux Creek Slough	1	S24N05W16AAC	820914	--	8.7	--	--	--	--	--	--	2	
83.1	Rabideux Creek Slough	2	S24N05W16AAC	820914	1415	11.2	--	8.3	--	--	--	23	3	
83.1	Rabideux Creek Slough	3	S24N05W16AAC	820914	1600	9.4	--	6.5	--	--	--	61	160	
83.1	Rabideux Creek Slough	3	S24N05W16AAC	820929	1740	--	--	6.0	11.1	89	6.3	29	7	
83.1	Rabideux Creek Slough	1	S24N05W16AAC	820929	1630	--	--	6.1	10.6	85	5.8	29	3	
83.1	Rabideux Creek Slough	2	S24N05W16AAC	820929	1645	--	--	5.1	11.8	92	6.5	96	41	

71-0-12

Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	Hydrolab Measurements					
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
DESIGNATED FISH HABITAT SITES													
83.1	Rabideux Creek Free Flowing Q Site		S24N05W16ADC	820913	1400	--	7.5	7.6	12.0	100	6.2	30	--
83.1	Rabideux Creek Free Flowing Q Site		S24N05W16ADC	821002	1400	6.8	5.2	5.2	11.9	94	6.2	31	--
83.1	Rabideux Creek		S24N05W16ADC	820913	1800	--	7.8	--	--	--	--	27	--
83.1	Rabideux Creek		S24N05W16ADC	821002	1640	6.6	5.4	5.5	12.0	95	6.1	35	--
85.7	Sunshine Creek Side Ch.	1	S24N05W14BAB	820609	1455	16.0		10.8	--	--	--	--	1
													2
85.7	Sunshine Creek Side Ch.	2	S24N05W14BAB	820609	1600	16.0		11.5	--	--	--	--	4
85.7	Sunshine Creek Side Ch.	3	S24N05W14BAB	820609	1645	16.0		7.2	--	--	--	--	--
85.7	Sunshine Creek Side Ch.	-	S24N05W14BAB	820610	--	--	--	--	--	--	--	--	1
85.7	Sunshine Creek Side Ch.	1	S24N05W14BAB	820624	1520	--	--	16.2	9.7	99	6.7	50	2
85.7	Sunshine Creek Side Ch.	2	S24N05W14BAB	820624	1642	27.1		16.4	9.7	99	6.8	55	2
85.7	Sunshine Creek Side Ch.	3	S24N05W14BAB	820624	1630	--		12.1	10.8	100	7.4	74	45
85.7	Sunshine Creek Side Ch.	2	S24N05W14BAB	820712	1700	21.4		14.0	10.1	98	6.7	59	100
85.7	Sunshine Creek Side Ch.	4	S24N05W14BAB	820712	1720	21.3		11.3	10.6	97	7.1	93	3
85.7	Sunshine Creek Side Ch.	1	S24N05W14BAB	820727	1430	--		13.0	--	--	--	--	3
85.7	Sunshine Creek Side Ch.	2	S24N05W14BAB	820727	1245	15.2		12.4	--	--	--	--	--
85.7	Sunshine Creek Side Ch.	1	S24N05W14BAB	820810	1415	14.0		11.8	10.5	97	6.8	43	--
85.7	Sunshine Creek Side Ch.	3	S24N05W14BAB	820810	1730	10.5		10.5	10.7	95	7.2	81	--
85.7	Sunshine Creek Side Ch.	1	S24N05W14BAB	820824	1324	14.0		12.8	10.7	101	--	55	1
85.7	Sunshine Creek Side Ch.	2	S24N05W14BAB	820824	1222	14.0		12.3	9.4	88	6.7	63	5
85.7	Sunshine Creek Side Ch.	3	S24N05W14BAB	820824	1648	16.3		12.5	--	--	6.7	--	--
85.7	Sunshine Creek Side Ch.	6	S24N05W14BAB	820824	1428	17.0		12.4	5.9	55	6.7	125	67
85.7	Sunshine Creek Side Ch.	1	S24N05W14BAB	820912	1435	9.4		7.8	13.4	110	7.2	27	1
85.7	Sunshine Creek Side Ch.	2	S24N05W14BAB	820912	1625	9.8		8.1	13.1	110	7.3	47	9
85.7	Sunshine Creek Side Ch.	3	S24N05W14BAB	820912	1615	9.4		7.4	13.8	114	7.3	71	48
85.7	Sunshine Creek Side Ch.	9	S24N05W14BAB	820912	1410	9.4		6.1	6.6	53	6.9	138	1
85.7	Sunshine Creek Side Ch.	1	S24N05W14AAB	820930	1435	--	--	6.0	11.2	90	5.6	45	8
85.7	Sunshine Creek Side Ch.	2	S24N05W14AAB	820930	1445	--	--	6.0	11.2	90	5.6	45	4
85.7	Sunshine Creek Side Ch.	3	S24N05W14AAB	820930	1510	--	--	6.2	10.8	87	6.3	48	4

4-D-13

Table 4 D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	Hydrolab Measurements					Turbidity NTU
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	
DESIGNATED FISH HABITAT SITES													
85.7	Sunshine Creek Q Station		S24N05W14AAB	820805	1830	--	15.0	15.1	9.5	94	6.4	56	--
85.7	Sunshine Creek Q Station		S24N05W14AAB	820918	1552	--	--	7.9	--	--	--	39	--
85.7	Sunshine Creek Mouth		S24N05W14AAB	820901	1220	--	11.5	11.5	9.9	91	6.6	45	--
85.7	Sunshine Creek Mouth		S24N05W14AAB	821004	1100	--	3.6	3.6	11.8	89	6.4	57	--
85.7	Sunshine Creek Q Station		S24N05W14AAB	820901	1645	--	--	9.9	10.8	95	7.1	111	--
85.7	Sunshine Creek Q Station		S24N05W14AAB	820918	1543	12.0	6.3	6.3	--	--	--	90	--
MAINSTEM ADULT ANADROMOUS FISH HABITAT INVESTIGATIONS													
85.7	Sunshine Slough		S24N05W14AAB	820525	--	--	--	6.4	11.4	92	7.1	54	--
DESIGNATED FISH HABITAT SITES													
88.4	Birch Creek Slough	1	S25N05W25DCC	820604	1755	--		13.1	11.4	108	7.0	72	1
88.4	Birch Creek Slough	7	S25N05W25DCC	820604	1845	--		11.6	11.6	106	7.0	95	6
88.4	Birch Creek Slough	4	S25N05W25DCC	820604	1645	13.8		9.2	12.8	108	7.2	138	5
88.4	Birch Creek Slough	1	S25N05W25DCC	820623	1250	18.9		15.3	10.1	100	6.9	60	2
88.4	Birch Creek Slough	6	S25N05W25DCC	820623	1245	18.9		9.3	11.9	102	7.2	60	3
88.4	Birch Creek Slough	7	S25N05W25DCC	820623	1312	18.9		13.1	11.1	105	7.0	101	2
88.4	Birch Creek Slough	1	S25N05W25DCC	820711	1200	15.9		16.0	9.3	94	6.8	70	38
88.4	Birch Creek Slough	6	S25N05W25DCC	820711	1155	15.9		9.8	10.6	94	6.6	165	76
88.4	Birch Creek Slough	7	S25N05W25DCC	820711	1250	16.0		14.2	10.0	97	6.6	104	60
88.4	Birch Creek Slough	1	S25N05W25DCC	820726	1345	19.0		14.9	10.5	104	6.7	57	3
88.4	Birch Creek Slough	6	S25N05W25DCC	820726	1330	18.7		8.7	10.9	94	6.4	150	32
88.4	Birch Creek Slough	7	S25N05W25DCC	820726	1230	18.4		12.1	10.1	94	6.4	70	22
88.4	Birch Creek Slough	1	S25N05W25DCC	820809	1245	17.8		15.0	--	--	7.1	--	4
88.4	Birch Creek Slough	4	S25N05W25DCC	820809	1230	17.8		8.7	--	--	7.7	--	6
88.4	Birch Creek Slough	5	S25N05W25DCC	820809	1220	17.8		--	--	--	--	--	40
88.4	Birch Creek Slough	1	S25N05W25DCC	820823	1632	18.0		14.5	9.6	94	6.8	85	1
88.4	Birch Creek Slough	2	S25N05W25DCC	820823	1900	17.8		14.3	8.5	83	6.7	94	2
88.4	Birch Creek Slough	3	S25N05W25DCC	820823	1915	17.8		11.6	10.6	98	7.3	106	82
88.4	Birch Creek Slough	1	S25N05W25DCC	820911	1725	8.8		9.7	13.4	116	7.1	81	2
88.4	Birch Creek Slough	2	S25N05W25DCC	820911	1830	8.9		9.7	12.0	105	7.4	89	2
88.4	Birch Creek Slough	3	S25N05W25DCC	820911	1845	8.9		8.0	13.3	112	7.4	104	3
88.4	Birch Creek Slough	6	S25N05W25DCC	820911	1500	8.8		--	--	--	--	--	4
88.4	Birch Creek Slough	1	S25N05W25DCC	820928	1115	4.4		5.2	10.9	85	5.5	77	7
88.4	Birch Creek Slough	2	S25N05W25DCC	820928	1115	4.4		5.2	10.9	85	5.5	77	7
88.4	Birch Creek Slough	3	S25N05W25DCC	820928	1115	4.4		4.7	11.5	90	6.7	88	21

Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	HydroLab Measurements					Spec. Cond. umhos/cm	Turbidity NTU
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH			
DESIGNATED FISH HABITAT SITES														
88.4	Birch Creek Q Station		S25N05W25DDC	820805	1607	16.2	17.2	17.4	9.2	97	6.6	54		
88.4	Birch Creek Q Station		S25N05W25DDC	820903	1220	--	11.9	11.9	--	--	--	63		
88.4	Birch Creek Q Station		S25N05W25DDC	820919	1140	5.6	8.5	8.5	--	--	--	55		
88.4	Birch Creek Q Station		S25N05W25DDC	821003	1340	5.8	6.2	6.1	11.4	92	6.6	69		
88.4	Birch Creek Slough		S25N05W25DDC	820805	1607	16.2	--	15.4	9.9	99	6.8	92		
	Lower Q Station													
88.4	Birch Creek Slough		S25N05W25DDC	820903	1130	--	7.8	9.7	--	--	--	105		
	Lower Q Station													
88.4	Birch Creek Slough		S25N05W25DDC	820919	1100	5.6	5.6	7.4	--	--	--	88		
	Lower Q Station													
88.4	Birch Creek Slough		S25N05W25DDC	821003	1515	--	--	5.5	11.3	90	6.7	120		
	Lower Q Station													
88.4	Birch Creek Slough		S25N05W25DDC	820919	1215	--	5.3	5.3	--	--	--	152		
MAINSTEM ADULT ANADROMOUS FISH HABITAT INVESTIGATIONS														
89.2	Birch Creek Mouth		S25N05W25DCC	820624	--	--	--	15.3	10.0	99	6.8	50		
91.5	Trapper Creek Mouth		S25N05W15DBA	820605	--	--	--	10.0	--	--	--	--		
DESIGNATED FISH HABITAT SITES														
101.2	Whiskers Creek Slough	1	S26N05W03ADB	820603	1835	16.0		10.4	--	--	--		3	
101.2	Whiskers Creek Slough	4	S26N05W03ADB	820603	1900	16.0		6.9	--	--	--		36	
101.2	Whiskers Creek Slough	2	S26N05W03ADB	820603	1800	16.0		10.8	--	--	--		2	
101.2	Whiskers Creek Slough	7	S26N05W03ADB	820603	1820	16.0		9.4	--	--	--		13	
101.2	Whiskers Creek Slough	1	S26N05W03ADB	820604	1340	--		9.5	12.5	109	6.8	27	--	
101.2	Whiskers Creek Slough	4	S26N05W03ADB	820604	1250	--		7.2	13.3	108	7.2	60	60	--
101.2	Whiskers Creek Slough	2	S26N05W03ADB	820604	1215	--		8.6	12.2	104	6.2	28	--	
101.2	Whiskers Creek Slough	7	S26N05W03ADB	820604	1200	13.5		8.6	13.0	110	6.7	44	--	
101.2	Whiskers Creek Slough	4	S26N05W03ADB	820621	1630	--		9.4	11.4	100	7.3	69	--	
101.2	Whiskers Creek Slough	1	S26N05W03ADB	820621	1440	15.8		11.4	10.7	106	7.4	25	2	
101.2	Whiskers Creek Slough	9	S26N05W03ADB	820621	1405	15.0		11.2	10.9	99	6.6	26	3	
101.2	Whiskers Creek Slough	7	S26N05W03ADB	820621	1410	15.8		9.7	11.1	97	7.0	50	42	
101.2	Whiskers Creek Slough	1	S26N05W03ADB	820710	1130	16.1		12.2	9.3	86	6.1	30	3	
101.2	Whiskers Creek Slough	7	S26N05W03ADB	820710	1220	16.1		12.4	9.2	86	6.2	43	7	
101.2	Whiskers Creek Slough	9	S26N05W03ADB	820710	1205	16.1		11.5	8.8	81	6.5	93	41	

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Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	Hydrolab Measurements					
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
DESIGNATED FISH HABITAT SITES													
101.2	Whiskers Creek Slough	1	S26N05W03ADB	820725	1210	--		10.5	--	--	--	18	40
101.2	Whiskers Creek Slough	9	S26N05W03ADB	820725	1215	12.8		10.5	--	--	--	18	42
101.2	Whiskers Creek Slough	7	S26N05W03ADB	820725	1300	--		10.4	--	--	--	--	72
101.2	Whiskers Creek Slough	1	S26N05W03ADB	820726	1740	18.2		11.9	9.9	92	5.8	21	--
101.2	Whiskers Creek Slough	9	S26N05W03ADB	820726	1740	18.2		11.9	9.9	92	5.8	19	--
101.2	Whiskers Creek Slough	7	S26N05W03ADB	820726	1720	18.2		11.7	9.8	90	6.1	24	--
101.2	Whiskers Creek Slough	1	S26N05W03ADB	820807	1530	14.4		12.2	9.8	89	6.7		41
101.2	Whiskers Creek Slough	2	S26N05W03ADB	820807	1500	14.4		12.2	--	--	6.7		3
101.2	Whiskers Creek Slough	3	S26N05W03ADB	820807	1450	14.4		12.4	10.0	93	6.8		5
101.2	Whiskers Creek Slough	1	S26N05W03ADB	820822	1320	17.0		10.7	7.9	71	6.7	31	6
101.2	Whiskers Creek Slough	2	S26N05W03ADB	820822	1208	16.0		11.8	9.3	85	6.7	30	2
101.2	Whiskers Creek Slough	3	S26N05W03ADB	820822	1154	15.0		11.6	10.9	100	6.8	46	31
101.2	Whiskers Creek Slough	9	S26N05W03ADB	820822	1342	20.0		10.7	8.6	78	6.6	64	3
101.2	Whiskers Creek Slough	9	S26N05W03ADB	820909	1630	11.8		8.4	6.4	55	7.1	68	--
101.2	Whiskers Creek Slough	1	S26N05W03ADB	820909	1500	13.0		9.3	13.0	112	7.1	27	5
101.2	Whiskers Creek Slough	2	S26N05W03ADB	820909	1445	13.0		9.8	12.9	112	7.3	27	5
101.2	Whiskers Creek Slough	3	S26N05W03ADB	820909	1445	13.0		9.5	13.3	115	7.0	49	21
101.2	Whiskers Creek Slough	1	S26N05W03ADB	820928	1700	4.4		4.5	--	--	--	24	2
101.2	Whiskers Creek Slough	9	S26N05W03ADB	820928	1710	4.4		--	--	--	--	--	2
101.2	Whiskers Creek Slough	3	S26N05W03ADB	820928	1700	4.4		4.5	--	--	--	24	2
101.2	Whiskers Creek Q Station		S26N05W03AAC	820816	1700	--	11.6	11.5	10.4	96	6.2	25	
101.2	Whiskers Creek Q Station		S26N05W03AAC	820903	1800	--		9.4	--	--	5.8	26	
101.2	Whiskers Creek Q Station		S26N05W03AAC	820920	1705	--		7.5	--	--	--	14	
101.2	Whiskers Creek Slough		S26N05W03AAC	820816	1630	--	9.8	9.8	8.3	72	6.3	79	
101.2	Q Station												
101.2	Whiskers Creek Slough		S26N05W03AAC	820903	1730	--		8.2	--	--	6.3	89	
101.2	Q Station												
101.2	Whiskers Creek Slough		S26N05W03AAC	820920	1530	--		6.7	--	--	--	88	
101.2	Whiskers Creek Slough		S26N05W03ADB	821002									
101.2	Transect 1		S26N05W03ADB	821002	1145	--	--	4.3	12.1	93	6.3	29.0	
101.2	Transect 2		S26N05W03ADB	821002	1120	--	--	3.3	8.9	67	6.3	81.0	
101.2	Transect 3		S26N05W03ADB	821002	1115	7.6	--	3.5	8.4	63	6.0	87.0	
101.2	Transect 4		S26N05W03ADB	821002	1130	--	--	4.1	12.0	91	6.3	27.0	

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Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	Hydrolab Measurements					
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
DESIGNATED FISH HABITAT SITES													
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	821011	1810	--	--	--	--	--	--	--	8
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	821009	1700	--	--	--	--	--	--	--	9
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	821010	1815	--	--	--	--	--	--	--	8
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	821008	1250	--	--	--	--	--	--	--	10
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	821007	1630	--	--	--	--	--	--	--	10
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	821006	1350	--	--	--	--	--	--	--	12
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	821005	1830	--	--	--	--	--	--	--	14
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	821003	1300	--	--	--	--	--	--	--	18
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	821002	1000	--	--	--	--	--	--	--	18
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820907	1100	--	--	--	--	--	--	--	39
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820908	1100	--	--	--	--	--	--	--	37
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820906	1830	--	--	--	--	--	--	--	48
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820821	1800	--	--	--	--	--	--	--	162
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820828	1000	--	--	--	--	--	--	--	140
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820828	1135	--	--	--	--	--	--	--	140
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820929	1010	--	--	--	--	--	--	--	36
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	821001	1900	--	--	--	--	--	--	--	23
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820930	1400	--	--	--	--	--	--	--	28
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820824	1700	--	--	--	--	--	--	--	146
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820820	1400	--	--	--	--	--	--	--	162
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820827	1220	--	--	--	--	--	--	--	162
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820928	0800	--	--	--	--	--	--	--	48
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820912	0830	--	--	--	--	--	--	--	39
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820825	1900	--	--	--	--	--	--	--	202
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820909	1005	--	--	--	--	--	--	--	36
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820814	1155	--	--	--	--	--	--	--	142
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820826	1820	--	--	--	--	--	--	--	190
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820905	1045	--	--	--	--	--	--	--	48
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820911	1300	--	--	--	--	--	--	--	49
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820927	1030	--	--	--	--	--	--	--	60
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820926	1630	--	--	--	--	--	--	--	76
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820910	1010	--	--	--	--	--	--	--	47
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820815	1645	--	--	--	--	--	--	--	199
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820925	0900	--	--	--	--	--	--	--	102
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820817	1300	--	--	--	--	--	--	--	288
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820913	1110	--	--	--	--	--	--	--	35
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820816	1915	--	--	--	--	--	--	--	232
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820924	1430	--	--	--	--	--	--	--	156
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820923	1650	--	--	--	--	--	--	--	178
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820914	1150	--	--	--	--	--	--	--	65
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820922	0925	--	--	--	--	--	--	--	284
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820920	1430	--	--	--	--	--	--	--	154
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820921	1005	--	--	--	--	--	--	--	182

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Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	HydroLab Measurements					Turbidity NTU
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	
DESIGNATED FISH HABITAT SITES													
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820918	1024	--	--	--	--	--	--	--	268
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820915	0915	--	--	--	--	--	--	--	73
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820917	1315	--	--	--	--	--	--	--	128
103.0	Talkeetna Fishwheel	-	S27N05W26DDD	820916	1015	--	--	--	--	--	--	--	134
111.5	Gash Creek Side Channel	1	S28N05W24ADA	820607	1150	9.4	--	5.6	14.4	114	6.6	31	2
111.5	Gash Creek Side Channel	3	S28N05W24ADA	820607	1205	9.4	--	6.1	14.2	114	6.8	49	10
111.5	Gash Creek Side Channel	1	S28N05W24ADA	820722	1605	--	--	10.0	11.4	102	6.7	--	--
111.5	Gash Creek Side Channel	4	S28N05W24ADA	820722	1610	--	--	12.4	10.7	100	7.0	--	--
111.5	Gash Creek Q Station		S28N05W24ADA	820818	1328	--	--	10.5	10.5	94	6.7	94	--
112.3	Slough 6A	2	S28N05W13CAC	820606	1425	--	--	8.8	12.8	110	6.8	66	4
112.3	Slough 6A	3	S28N05W13CAC	820606	1435	--	--	7.6	13.9	115	7.2	79	16
112.3	Slough 6A	2	S28N05W13CAC	820620	1240	10.0	--	11.1	12.5	114	6.6	60	4
112.3	Slough 6A	3	S28N05W13CAC	820620	1210	10.0	--	8.2	11.2	95	7.3	75	31
112.3	Slough 6A	2	S28N05W13CAC	820709	1150	19.0	--	15.0	9.6	95	6.8	82	40
112.3	Slough 6A	3	S28N05W13CAC	820709	1050	19.0	--	13.7	9.8	94	6.7	113	150
112.3	Slough 6A	2	S28N05W13CAC	820723	1100	11.4	--	10.4	8.9	80	6.3	50	--
112.3	Slough 6A	3	S28N05W13CAC	820723	1055	11.4	--	10.9	10.7	97	6.8	94	26
112.3	Slough 6A	2	S28N05W13CAC	820807	--	--	--	--	--	--	--	--	4
112.3	Slough 6A	3	S28N05W13CAC	820807	--	--	--	--	--	--	--	--	120
112.3	Slough 6A	2	S28N05W13CAC	820821	1433	20.2	--	11.7	8.9	82	6.7	61	4
112.3	Slough 6A	3	S28N05W13CAC	820821	1405	19.8	--	13.4	10.3	99	7.1	135	110
112.3	Slough 6A	2	S28N05W13CAC	820910	1245	14.3	--	8.1	11.9	100	7.8	49	4
112.3	Slough 6A	3	S28N05W13CAC	820910	1315	14.3	--	8.2	13.4	112	7.7	116	51
112.3	Slough 6A	2	S28N05W13CAC	820925	1355	6.8	--	4.9	--	--	--	28	3
112.3	Slough 6A	3	S28N05W13CAC	820925	1350	6.8	--	5.0	--	--	--	--	60
112.3	Slough 6A Mouth		S28N05W13CAC	820921	1040	8.8	6.2	6.3	--	--	--	41	--
ADULT ANADROMOUS FISH INVESTIGATIONS													
112.3	Slough 6A		S28N05W13CAC3	821002									
112.3	Transect 1		S28N05W13CAC3	821002	1400	5.1	--	4.3	11.1	85	6.1	57	
112.3	Transect 2		S28N05W13CAC3	821002	1420	--	--	4.6	10.6	82	4.3	58	
112.3	Transect A		S28N05W13CAC3	821002	1432	--	--	4.4	12.7	98	6.0	52	
DESIGNATED FISH HABITAT SITES													
113.6	Lane Creek Slough	6	S28N05W12ADD	820607	1430	14.0	--	6.5	10.9	89	6.9	67	--
113.6	Lane Creek Slough	1	S28N05W12ADD	820607	1435	14.0	--	4.4	14.5	110	7.1	26	3

Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	Hydrolab Measurements					
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
DESIGNATED FISH HABITAT SITES													
113.6	Lane Creek Slough	7	S28N05W12ADD	820607	1430	14.0	--	4.6	14.5	112	7.1	26	1
113.6	Lane Creek Slough	3	S28N05W12ADD	820607	1425	14.0	--	5.7	14.1	110	7.1	59	16
113.6	Lane Creek Slough	0	S28N05W12ADD	820619	1500	--	--	16.2	8.3	85	6.7	48	2
113.6	Lane Creek Slough	1	S28N05W12ADD	820619	1600	--	--	8.9	10.8	93	7.3	51	1
113.6	Lane Creek Slough	2	S28N05W12ADD	820619	1435	20.5	--	9.2	10.6	92	7.2	49	<1
113.6	Lane Creek Slough	9	S28N05W12ADD	820708	1225	21.5	--	7.0	9.0	74	6.1	62	3
113.6	Lane Creek Slough	2	S28N05W12ADD	820708	1210	21.5	--	9.5	10.3	91	6.7	57	2
113.6	Lane Creek Slough	3	S28N05W12ADD	820708	1200	21.5	--	11.8	10.1	94	6.8	76	73
113.6	Lane Creek Slough	9	S28N05W12ADD	820722	1125	15.6	--	5.8	9.3	74	6.6	69	2
113.6	Lane Creek Slough	1	S28N05W12ADD	820722	1120	15.6	--	7.8	12.6	105	6.9	50	6
113.6	Lane Creek Slough	2	S28N05W12ADD	820722	1105	15.6	--	7.6	12.3	102	6.6	53	3
113.6	Lane Creek Slough	3	S28N05W12ADD	820722	1115	15.6	--	10.5	11.6	104	6.7	83	17
113.6	Lane Creek Slough	1	S28N05W12ADD	820808	--	--	--	--	--	--	--	--	1
113.6	Lane Creek Slough	2	S28N05W12ADD	820808	--	--	--	--	--	--	--	--	1
113.6	Lane Creek Slough	3	S28N05W12ADD	820808	--	--	--	--	--	--	--	--	11
113.6	Lane Creek Slough	1	S28N05W12ADD	820820	1345	22.2	--	8.3	11.9	100	6.6	50	1
113.6	Lane Creek Slough	9	S28N05W12ADD	820820	1130	23.0	--	8.9	6.8	59	6.2	86	<1
113.6	Lane Creek Slough	3	S28N05W12ADD	820820	1345	22.2	--	10.3	11.0	98	6.8	90	--
113.6	Lane Creek Slough	1	S28N05W12ADD	820910	1700	14.0	--	7.3	14.0	105	7.8	52	2
113.6	Lane Creek Slough	2	S28N05W12ADD	820910	1710	14.0	--	7.0	11.8	97	7.1	68	2
113.6	Lane Creek Slough	3	S28N05W12ADD	820910	1650	14.0	--	8.0	13.1	110	7.8	93	6
113.6	Lane Creek Slough	0	S28N05W12ADD	820910	1720	14.0	--	7.1	10.4	86	6.7	74	1
113.6	Lane Creek Slough	9	S28N05W12ADD	820910	1720	14.0	--	7.1	10.4	86	6.7	74	<1
113.6	Lane Creek Slough	9	S28N05W12ADD	820925	1250	9.8	--	5.2	8.6	68	6.5	54	<1
113.6	Lane Creek Slough	1	S28N05W12ADD	820925	1200	9.2	--	4.0	12.5	95	6.8	50	4
113.6	Lane Creek Slough	3	S28N05W12ADD	820925	1155	9.2	--	4.1	12.2	93	6.7	82	2
113.6	Lane Creek Slough	0	S28N05W12ADD	820925	1435	--	--	5.3	9.7	76	6.4	47	--
113.6	Lane Creek Q Station		S28N05W12ADD	820817	1440	--	7.5	7.5	12.0	100	7.2	61	--
113.6	Lane Creek Slough		S28N05W12ADD	820903	1510	--	6.8	6.8	--	--	--	67	--
	Q Station												
113.6	Lane Creek Slough		S28N05W12ADD	820917	1517	--	7.3	7.2	10.3	85	5.7	67	--
	Q Station												
113.6	Lane Creek Slough		S28N05W12ADD	820920	1420	--	7.2	6.7	--	--	--	38	--
	Q Station												

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Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	HydroLab Measurements					Spec. Cond. umhos/cm	Turbidity NTU
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH			
ADULT ANADROMOUS FISH INVESTIGATIONS														
113.6	Lane Creek Slough		S28N04W07BCB3	821002										
113.6	Transect 1		S28N04W07BCB3	821002	1459	5.0	--	5.3	10.2	80	5.7	80.0		
113.6	Transect 2		S28N04W07BCB3	821002	1514	--	--	5.0	9.4	74	5.7	74.0		
113.6	Transect 3		S28N04W07BCB3	821002	1526	--	--	5.6	8.9	71	5.5	56.0		
MAINSTEM ADULT ANADROMOUS FISH HABITAT INVESTIGATIONS														
114.4	Susitna River		S28N04W06CAB	820909	1615	16.2	--	10.6	13.4	120	7.5	85		
114.4	Susitna River		S28N04W06CAB	820909	1615	16.2	--	10.5	14.0	125	6.9	79		
DESIGNATED FISH HABITAT SITES														
120.7	Mainstem Curry	3	S29N04W10BCD	820608	1515	--	--	--	--	--	--	--	--	29
120.7	Mainstem Curry	8	S29N04W10BCD	820623	1530	--	--	11.2	11.1	101	7.5	79	16	
120.7	Mainstem Curry	3	S29N04W10BCD	820623	1545	--	--	11.8	11.5	106	7.7	77	12	
120.7	Mainstem Curry	8	S29N04W10BCD	820707	1115	21.8	--	13.4	9.8	94	6.5	114	140	
120.7	Mainstem Curry	3	S29N04W10BCD	820707	1125	--	--	13.1	10.1	95	7.2	113	150	
120.7	Mainstem Curry	4	S29N04W10BCD	820728	1830	16.2	--	12.1	8.5	79	7.5	112	22	
120.7	Mainstem Curry	3	S29N04W10BCD	820728	1830	16.2	--	12.3	9.0	84	7.6	113	35	
ADULT ANADROMOUS FISH INVESTIGATIONS														
125.2	Slough 8A	-	S30N03W20DCC											
125.2	Transect 1	-	S30N03W20DCC	820826	1643	20.8	--	14.5	10.3	101	7.0	153.0	--	
125.2	Transect 1	-	S30N03W20DCC	820906	1530	--	--	8.3	10.9	93	7.0	126.0	--	
125.2	Transect 2	-	S30N03W20DCC	820906	1514	--	--	7.3	10.3	85	6.9	119.0	--	
125.2	Transect 3	-	S30N03W20DCC	820826	1632	--	--	13.1	8.4	80	6.9	142.0	--	
125.2	Transect 3	-	S30N03W20DCC	820906	1506	--	--	7.4	9.6	80	6.9	120.0	--	
125.2	Transect 4	-	S30N03W20DCC	820826	1610	--	--	11.5	9.5	87	6.8	145.0	--	
125.2	Transect 4	-	S30N03W20DCC	820906	1459	--	--	7.2	10.5	87	6.8	120.0	--	

4-D-20

Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	Hydrolab Measurements					
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
125.2	Transect 5	-	S30N03W20DCC	820822	1345	18.5	--	12.4	9.0	84	6.7	111.0	--
125.2	Transect 5	-	S30N03W20DCC	820826	1550	--	--	16.3	10.5	107	6.7	117.0	--
125.2	Transect 5	-	S30N03W20DCC	820906	1439	--	--	7.8	11.0	92	6.7	98.0	--
125.2	Transect 6	-	S30N03W20DCC	820822	1400	21.0	--	12.8	--	--	--	104.0	--
125.2	Transect 6	-	S30N03W20DCC	820826	1543	--	--	15.2	10.3	102	6.8	107.0	--
125.2	Transect 6	-	S30N03W20DCC	820906	1435	--	--	7.7	10.8	90	6.6	92.0	--
125.2	Transect 6	-	S30N03W20DCC	821003	1249	--	--	3.4	--	--	6.3	53.0	--
125.2	Transect 7	-	S30N03W20DCC	820826	1533	--	--	15.6	10.4	104	6.9	101.0	--
125.2	Transect 7	-	S30N03W20DCC	820906	1419	12.0	--	7.7	10.8	90	6.5	93.0	--
125.2	Transect 8	-	S30N03W20DCC	821003	1240	--	--	2.9	--	--	6.5	53.0	--
125.2	Transect 9	-	S30N03W20DCC	821003	1230	--	--	2.8	--	--	6.5	35.0	--
125.2	Transect 10	-	S30N03W20DCC	821003	1225	--	--	2.6	--	--	6.4	34.0	--
125.2	Transect 11	-	S30N03W20DCC	821003	1215	--	--	2.4	--	--	5.6	58.0	--
125.2	Transect 12	-	S30N03W20DCC	821003	1205	--	--	4.0	--	--	6.6	93.0	--
125.2	Transect 13	-	S30N03W20DCC	821003	1200	--	--	4.2	10.3	79	6.5	65.0	--
125.2	Transect 14	-	S30N03W20DCC	821003	1150	--	--	5.1	8.8	69	6.5	140.0	--
125.2	Transect 15	-	S30N03W20DCC	821003	1136	--	--	3.3	10.8	80	6.9	132.0	--
125.2	Transect 16	-	S30N03W20DCC	821003	1056	4.2	--	2.6	10.5	77	6.7	124.0	--
DESIGNATED FISH HABITAT SITES													
125.3	Slough 8A	4	S30N03W30BCD	820608	1700	--	--	7.7	10.6	89	6.5	86	34
125.3	Slough 8A	6	S30N03W30BCD	820608	1615	--	--	7.7	10.3	86	6.4	96	--
125.3	Slough 8A	3	S30N03W30BCD	820608	1600	--	--	7.9	10.4	87	6.4	96	32
125.3	Slough 8A	1	S30N03W30BCD	820623	0945	15.0	--	7.4	11.6	96	7.1	131	2
125.3	Slough 8A	2	S30N03W30BCD	820623	1210	--	--	8.9	11.8	98	7.4	128	2
125.3	Slough 8A	3	S30N03W30BCD	820623	1130	--	--	9.3	10.7	93	7.3	123	9
125.3	Slough 8A	1	S30N03W30BCD	820712	1330	11.9	--	10.1	8.6	76	6.9	158	16
125.3	Slough 8A	2	S30N03W30BCD	820712	1320	11.9	--	10.3	8.7	78	6.9	168	--
125.3	Slough 8A	3	S30N03W30BCD	820712	1230	11.9	--	11.0	9.9	89	7.5	121	200
125.3	Slough 8A	1	S30N03W30BCD	820728	1200	18.0	--	7.6	8.6	72	6.8	--	< 1
125.3	Slough 8A	2	S30N03W30BCD	820728	1700	21.0	--	10.1	8.9	79	6.7	--	< 1
125.3	Slough 8A	3	S30N03W30BCD	820728	1800	21.3	--	12.3	8.8	82	7.3	--	68
125.3	Slough 8A	1	S30N03W30BCD	820811	1320	--	--	10.5	--	--	--	--	1
125.3	Slough 8A	2	S30N03W30BCD	820811	1345	17.8	--	10.5	--	--	--	--	2
125.3	Slough 8A	3	S30N03W30BCD	820811	1520	--	--	12.1	--	--	--	--	148
125.3	Slough 8A	1	S30N03W30BCD	820821	1510	--	--	12.1	9.7	90	7.0	--	1
125.3	Slough 8A	2	S30N03W30BCD	820821	1420	18.0	--	14.0	10.6	101	7.1	--	< 1
125.3	Slough 8A	3	S30N03W30BCD	820821	1650	--	--	13.3	10.1	96	7.8	--	88
125.3	Slough 8A	1	S30N03W30BCD	820907	1350	13.2	--	8.8	10.9	94	6.7	--	2
125.3	Slough 8A	2	S30N03W30BCD	820907	1325	13.2	--	9.1	10.7	93	6.7	--	1
125.3	Slough 8A	3	S30N03W30BCD	820907	1425	--	--	9.4	10.5	92	7.2	--	22
125.3	Slough 8A	1	S30N03W30BCD	820924	1300	8.2	--	4.2	11.1	84	6.9	--	< 1

4-D-27

Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	Hydrolab Measurements					
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
125.3	Slough 8A	2	S30N03W30BCD	820924	1355	--	--	4.3	11.1	85	6.9		2
125.3	Slough 8A	3	S30N03W30BCD	820924	1545	--	--	4.7	12.8	99	7.5	130	81
MAINSTEM ADULT ANADROMOUS FISH HABITAT INVESTIGATIONS													
128.6	Susitna River	-	S30N03W16BCA	820907	1200	12.0	-	8.8	12.3	105	7.1	106	--
128.6	Susitna River	-	S30N03W16BCA	820907	1200	12.0	--	8.8	12.3	105	7.4	104	--
128.6	Susitna River	-	S30N03W16BCA	820907	1200	12.0	--	9.1	12.1	104	7.7	112	--
128.6	Susitna River	-	S30N03W16BCA	820907	1200	12.0	--	8.8	11.8	101	7.7	116	--
DESIGNATED FISH HABITAT SITES													
129.2	Slough 9	3	S30N03W16BDC	820622	1200	17.0	--	10.1	12.2	108	7.4	93	52
129.2	Slough 9	4	S30N03W16BDC	820622	1030	14.8	--	9.0	12.9	110	7.5	87	33
129.2	Slough 9	6	S30N03W16BDC	820622	1130	16.0	--	9.2	13.4	115	7.3	91	48
129.2	Slough 9	3	S30N03W16BDC	820610	1315	--	--	7.3	10.9	91	6.8	78	13
129.2	Slough 9	4	S30N03W16BDC	820610	1200	12.1	--	7.1	11.2	93	6.7	81	47
129.2	Slough 9	6	S30N03W16BDC	820610	1315	--	--	7.3	10.9	91	6.8	68	15
129.2	Slough 9	3	S30N03W16BDC	820713	1445	--	--	12.5	10.7	101	7.7	113	99
129.2	Slough 9	4	S30N03W16BDC	820713	1240	17.4	--	11.9	10.4	96	7.5	122	43
129.2	Slough 9	3	S30N03W16BDC	820727	1930	--	--	10.1	9.6	85	7.4	--	--
129.2	Slough 9	4	S30N03W16BDC	820727	1700	20.2	--	10.7	9.5	86	7.5	--	--
129.2	Slough 9	1	S30N03W16BDC	820810	1100	--	--	7.3	--	--	--	--	4
129.2	Slough 9	2	S30N03W16BDC	820810	1120	10.2	--	7.4	--	--	--	--	2
129.2	Slough 9	3	S30N03W16BDC	820810	1115	--	--	8.0	--	--	--	--	34
129.2	Slough 9	1	S30N03W16BDC	820821	1730	18.5	--	12.7	9.8	93	7.7	--	2
129.2	Slough 9	3	S30N03W16BDC	820821	1735	--	--	14.5	9.5	93	7.8	--	25
129.2	Slough 9	1	S30N03W16BDC	820907	1615	13.2	--	9.0	10.8	93	7.0	--	4
129.2	Slough 9	3	S30N03W16BDC	820907	1625	13.2	--	10.4	10.3	92	7.9	--	3
129.2	Slough 9	1	S30N03W16BDC	820923	1150	6.5	--	5.2	11.2	88	7.0	--	5
129.2	Slough 9	2	S30N03W16BDC	820923	1145	6.5	--	4.9	8.9	88	7.1	--	5
129.2	Slough 9	3	S30N03W16BDC	820923	1145	--	--	5.4	11.6	92	7.0	--	28
ADULT ANADROMOUS FISH INVESTIGATIONS													
129.2	Slough 9		S30N03W16BDC										
129.2	Transect 1	-	S30N03W16BDC	820820	--	--	--	--	--	--	--	--	--
129.2	Transect 1	-	S30N03W16BDC	820918	1845	--	--	6.1	--	--	--	107	--
129.2	Transect 2	-	S30N03W16BDC	820918	1940	--	--	5.9	--	--	--	63	--
129.2	Transect 3	-	S30N03W16BDC	820820	1545	23.5	--	14.4	9.5	93	7.2	129	--
129.2	Transect 3	-	S30N03W16BDC	820905	1914	--	--	8.1	10.9	92	6.8	114	--
129.2	Transect 3	-	S30N03W16BDC	820918	1828	--	--	6.1	--	--	--	110	--
129.2	Transect 4	-	S30N03W16BDC	820820	1610	--	--	12.0	9.2	85	6.9	142	--
129.2	Transect 5	-	S30N03W16BDC	820820	1615	--	--	12.5	9.2	86	6.9	137	--

22-01-17

Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	Hydrolab Measurements					
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
129.2	Transect 6	-	S30N03W16BDC	820918	1805	--	--	6.0	--	--	--	117	--
129.2	Transect 7	-	S30N03W16BDC	820820	1620	--	--	8.7	8.2	71	6.7	158	--
129.2	Transect 7	-	S30N03W16BDC	820905	1828	--	--	4.0	8.9	68	6.6	175	--
129.2	Transect 7	-	S30N03W16BDC	820918	1805	--	--	3.5	--	--	--	183	--
129.2	Transect 8	-	S30N03W16BDC	820820	1635	--	--	11.8	9.5	87	6.8	127	--
129.2	Transect 9	-	S30N03W16BDC	820820	1645	--	--	11.3	8.9	81	6.9	117	--
129.2	Transect 9	-	S30N03W16BDC	820905	1651	--	--	8.2	10.3	87	6.8	106	--
129.2	Transect 9	-	S30N03W16BDC	820918	1758	--	--	6.1	--	--	--	112	--
129.2	Transect 10	-	S30N03W16BDC	820905	1550	--	--	8.2	10.0	85	6.7	110	--
129.2	Transect 10	-	S30N03W16BDC	820918	1752	--	--	6.1	--	--	--	113	--
129.2	Transect 11	-	S30N03W16BDC	820820	1705	--	--	9.6	7.5	66	6.6	149	--
129.2	Transect 11	-	S30N03W16BDC	820905	1246	--	--	8.4	11.0	93	7.0	173	--
129.2	Transect 11	-	S30N03W16BDC	820918	1734	--	--	6.1	11.1	89	7.2	117	--
129.2	Transect 12	-	S30N03W16BDC	820905	1336	--	--	8.5	10.2	87	6.8	150	--
129.2	Transect 12	-	S30N03W16BDC	820918	1740	--	--	6.1	--	--	--	126	--
129.2	Transect 13	-	S30N03W16BDC	820918	1705	--	--	6.2	9.8	79	7.0	128	--
129.2	Transect A	-	S30N03W16BDC	820820	1555	--	--	8.3	9.2	78	6.9	90	--
129.2	Transect A	-	S30N03W16BDC	820918	1920	--	--	5.9	--	--	--	53	--
129.2	Transect B	-	S30N03W16BDC	820820	1825	--	--	10.8	8.6	78	6.7	172	--
129.2	Transect C	-	S30N03W16BDC	820905	1119	12.7	--	5.5	9.0	71	6.6	169	--
129.2	Transect C	-	S30N03W16BDC	820918	1700	9.6	--	5.6	7.3	58	6.4	150	--
129.2	Slough 9B, Transect C	-	S30N03W09DCC1	821004	1500	--	--	3.3	9.2	69	6.6	163	--
MAINSTEM ADULT ANADROMOUS FISH HABITAT INVESTIGATIONS													
129.8	Susitna River	-	S30N03W09DAB	820914	1600	7.6	--	7.2	6.4	53	7.4	113	--
DESIGNATED FISH HABITAT SITES													
131.1	4th of July Creek Mouth	1	S30N03W03DAC	820608	1540	--	--	6.7	11.4	93	6.2	21	<1
131.1	4th of July Creek Mouth	3	S30N03W03DAC	820608	1535	--	--	6.7	11.3	92	6.3	21	<1
131.1	4th of July Creek Mouth	1	S30N03W03DAC	820624	1010	18.0	--	9.1	12.5	108	7.2	25	<1
131.1	4th of July Creek Mouth	3	S30N03W03DAC	820624	1035	18.0	--	9.5	11.9	104	7.0	21	5
131.1	4th of July Creek Mouth	1	S30N03W03DAC	820712	1930	12.6	--	11.5	9.9	91	7.1	26	<1
131.1	4th of July Creek Mouth	3	S30N03W03DAC	820712	1950	12.6	--	11.0	9.9	90	7.1	54	90
131.1	4th of July Creek Mouth	1	S30N03W03DAC	820727	1415	20.0	--	10.6	10.0	90	7.3	--	1
131.1	4th of July Creek Mouth	3	S30N03W03DAC	820727	1400	--	--	10.6	10.0	90	6.4	--	5
131.1	4th of July Creek Mouth	1	S30N03W03DAC	820810	1730	--	--	10.8	--	--	--	--	1
131.1	4th of July Creek Mouth	3	S30N03W03DAC	820810	1725	--	--	10.8	--	--	--	--	7
131.1	4th of July Creek Mouth	1	S30N03W03DAC	820822	1305	--	--	12.0	10.2	94	6.8	--	2
131.1	4th of July Creek Mouth	3	S30N03W03DAC	820822	1255	18.1	--	12.1	7.2	67	6.3	--	9
131.1	4th of July Creek Mouth	1	S30N03W03DAC	820908	1250	12.4	--	9.0	10.9	94	6.7	--	--

4-B-23

Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	Hydrolab Measurements					
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
131.1	4th of July Creek Mouth	3	S30N03W03DAC	820908	1240	12.4	--	8.9	11.2	96	6.7	--	--
131.1	4th of July Creek Mouth	1	S30N03W03DAC	820924	1830	--	--	5.6	12.2	97	6.7	16	1
131.1	4th of July Creek Mouth	3	S30N03W03DAC	820924	1820	6.8	--	5.6	12.0	95	6.8	--	16
MAINSTEM ADULT ANADROMOUS FISH HABITAT INVESTIGATIONS													
131.3	Susitna River	-	S30N03W03DAD	820908	1300	13.0	--	10.2	12.8	112	8.7	74	--
131.3	Susitna River	-	S30N03W03DAD	820908	1300	13.0	--	10.2	12.8	112	8.7	74	--
131.3	Susitna River	-	S30N03W03DAD	820908	1300	11.8	--	9.5	13.9	120	7.0	92	--
131.3	Susitna River	-	S30N03W03DAD	820908	1300	11.8	--	8.6	12.9	110	7.9	124	--
131.3	Susitna River	-	S30N03W03DAD	820908	1300	11.8	--	8.5	12.5	106	7.9	132	--
131.3	Susitna River	-	S30N03W03DAD	820908	1300	11.8	--	9.3	13.1	112	8.0	33	--
ADULT ANADROMOUS FISH INVESTIGATIONS													
133.0	Slough 9A		S30N03W36DAA3										
133.0	Transect 1		S30N03W36DAA3	821003	1300	--	--	5.0	11.3	89	6.9	161	--
133.0	Transect 2		S30N03W36DAA3	821003	1215	11.8	--	3.9	10.2	77	6.9	136	--
133.0	Transect A		S30N03W36DAA3	821003	1200	11.8	--	3.6	11.1	84	6.9	121	--
133.8	Transect 1	-	S31W03W36AAC4	821003	1500	3.0	--	5.0	9.0	70	7.0	183	--
133.8	Transect 2	-	S31W03W36AAC4	821003	1530	--	--	6.5	9.4	76	7.2	226	--
133.8	Transect 3	-	S31W03W36AAC4	821003	1600	--	--	5.5	10.5	83	7.4	205	--
133.8	Transect A	-	S31W03W36AAC4	821003	1630	--	--	4.2	8.9	68	6.9	175	--
DESIGNATED FISH HABITAT SITES													
133.8	Slough 10	2	S31N03W36AAC	820608	1005	--	--	5.8	7.9	63	6.1	144	<1
133.8	Slough 10	3	S31N03W36AAC	820608	1000	--	--	5.2	8.9	70	6.1	132	4
135.3	Slough 11	1	S31N02W19DDD	820604	1200	17.4	--	7.2	10.4	86	5.8	208	<1
135.3	Slough 11	2	S31N02W19DDD	820604	1040	17.4	--	5.3	9.2	74	6.3	211	<1
135.3	Slough 11	3	S31N02W19DDD	820604	1045	17.4	--	5.1	10.0	89	6.7	204	--
135.3	Slough 11	1	S31N02W19DDD	820621	1010	10.2	--	5.3	12.1	98	7.2	222	--
135.3	Slough 11	2	S31N02W19DDD	820621	1045	10.2	--	6.0	11.3	91	7.1	224	20
135.3	Slough 11	3	S31N02W19DDD	820621	1040	10.2	--	6.4	12.5	101	6.9	197	5
135.3	Slough 11	1	S31N02W19DDD	820714	0845	14.0	--	5.6	12.9	102	7.2	230	--
135.3	Slough 11	2	S31N02W19DDD	820714	0830	14.0	--	6.0	10.1	81	7.1	230	--
135.3	Slough 11	3	S31N02W19DDD	820714	0845	14.0	--	10.4	11.4	102	7.6	133	49
135.3	Slough 11	1	S31N02W19DDD	820729	1020	12.0	--	11.6	9.7	89	7.8	--	3
135.3	Slough 11	2	S31N02W19DDD	820729	0950	12.0	--	6.1	9.8	89	7.1	--	1
135.3	Slough 11	3	S31N02W19DDD	820729	1040	12.0	--	5.9	9.6	77	7.2	--	59
135.3	Slough 11	1	S31N02W19DDD	820812	0945	12.0	--	5.6	11.3	90	6.6	--	<1

47-D-24

Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	Hydrolab Measurements					
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
135.3	Slough 11	2	S31N02W19DDD	820812	0940	12.0	--	4.6	10.2	78	6.4	--	< 1
135.3	Slough 11	3	S31N02W19DDD	820812	0935	12.0	--	9.3	10.6	93	7.4	--	38
135.3	Slough 11	1	S31N02W19DDD	820822	1525	--	--	8.2	10.2	87	7.2	--	2
135.3	Slough 11	2	S31N02W19DDD	820822	1515	--	--	8.4	10.3	88	7.3	--	9
135.3	Slough 11	3	S31N02W19DDD	820822	1535	--	--	10.5	10.4	93	7.5	--	30
135.3	Slough 11	1	S31N02W19DDD	820906	1550	12.8	--	6.2	10.3	83	6.8	--	1
135.3	Slough 11	2	S31N02W19DDD	820906	1530	12.8	--	6.1	10.2	83	7.1	--	3
135.3	Slough 11	3	S31N02W19DDD	820906	1540	12.8	--	6.8	10.8	89	7.2	--	22
135.3	Slough 11	1	S31N02W19DDD	820929	1715	7.1	--	4.5	11.4	88	7.2	--	3
135.3	Slough 11	2	S31N02W19DDD	820929	1730	7.1	--	4.3	11.6	89	7.2	--	1
135.3	Slough 11	3	S31N02W19DDD	820929	1830	--	--	4.1	12.2	93	6.9	--	4
135.3	Slough 11	-	S31N02W19DDD	820830	1753	--	--	5.7	--	--	4.0	214	--
135.3	Slough 11	-	S31N02W19DDD	820830	1505	--	6.0	5.4	--	--	--	2.4	--
135.3	Slough 11	-	S31N02W19DDD	820918	1050	--	5.9	4.6	11.1	86	6.6	212	--
ADULT ANADROMOUS FISH INVESTIGATIONS													
135.5	Slough 11	-	S31N02W19DDD4										
135.5	Transect 1	-	S31N02W19DDD4	820921	1250	--	--	5.0	10.9	85	5.3	214	--
135.5	Transect 2	-	S31N02W19DDD4	820921	1240	--	--	4.9	10.5	82	7.1	210	--
135.5	Transect 3	-	S31N02W19DDD4	820921	1230	--	--	4.7	10.6	82	7.0	215	--
135.5	Transect 3	-	S31N02W19DDD4	821003	0900	7.2	--	3.3	9.1	68	7.0	221	--
135.5	Transect 4	-	S31N02W19DDD4	820921	1220	--	--	4.6	10.2	79	6.9	213	--
135.5	Transect 5	-	S31N02W19DDD4	820921	1210	--	--	4.4	10.5	81	7.0	217	--
135.5	Transect 5	-	S31N02W19DDD4	821003	0910	--	--	3.0	7.1	53	7.0	224	--
135.5	Transect 6	-	S31N02W19DDD4	820921	1200	--	--	4.5	10.4	80	7.0	218	--
135.5	Transect 6	-	S31N02W19DDD4	821003	0920	--	--	3.1	7.7	57	7.1	225	--
135.5	Transect 7	-	S31N02W19DDD4	820921	1150	9.0	--	4.5	10.6	82	7.0	218	--
135.5	Transect 7	-	S31N02W19DDD4	821003	0940	--	--	3.5	8.0	60	7.1	225	--
MAINSTEM ADULT ANADROMOUS FISH HABITAT INVESTIGATIONS													
136.0	Susitna River	-	S31N02W19AD	820904	1030	12.2	--	5.8	7.1	56	7.3	79	--
136.0	Susitna River	-	S31N02W19AD	820904	1030	12.2	--	6.1	8.0	64	7.6	80	--
136.0	Susitna River	-	S31N02W19AD	820904	1030	12.2	--	7.5	10.6	88	7.8	108	--
136.9	Susitna River	-	S31N02W17CDA	820906	1325	12.2	--	7.7	10.4	87	7.3	91	--
DESIGNATED FISH HABITAT SITES													
137.7	Slough 16	4	S31N02W17ABD	820604	1500	16.4	--	6.8	11.1	91	6.2	42	3

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Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	HydroLab Measurements					
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
ADULT ANADROMOUS FISH INVESTIGATIONS													
137.7	Slough 16, Transect 1	-	S31N02W17ABD2	821001	1450	--	--	4.9	--	--	--	69	--
137.7	Slough 16, Transect 2	-	S31N02W17ABD2	821001	1415	4.5	--	4.3	--	--	--	70	--
DESIGNATED FISH HABITAT SITES													
138.6	Indian River - Mouth	1	S31N02W09CDA	820604	1645	14.6	--	6.2	10.3	82	6.0	35	3
138.6	Indian River - Mouth	3	S31N02W09CDA	820604	1630	14.5	--	6.5	11.1	90	6.2	35	4
138.6	Indian River - Mouth	1	S31N02W09CDA	820618	1045	--	--	5.9	14.2	113	6.4	32	--
138.6	Indian River - Mouth	3	S31N02W09CDA	820618	1030	--	--	5.6	13.9	110	6.6	36	5
138.6	Indian River - Mouth	1	S31N02W04CDA	820707	1125	23.0	--	9.0	11.3	--	5.8	39	7
138.6	Indian River - Mouth	3	S31N02W04CDA	820707	1115	23.0	--	10.4	11.3	--	6.2	104	100
138.6	Indian River - Mouth	1	S31N02W09CDA	820723	1720	--	--	8.1	10.5	89	6.7		85
138.6	Indian River - Mouth	3	S31N02W09CDA	820723	1750	13.2	--	8.2	10.3	88	6.7		7
138.6	Indian River - Mouth	1	S31N02W09CDA	820806	1640	23.0	--	11.7	11.0	101	6.6	36	<1
138.6	Indian River - Mouth	3	S31N02W09CDA	820806	1655	--	--	11.8	11.2	103	6.7	47	8
138.6	Indian River - Mouth	1	S31N02W09CDA	820819	1515	16.4	--	11.4	10.7	98	7.1		2
138.6	Indian River - Mouth	3	S31N02W09CDA	820819	1610	--	--	11.6	9.7	89	6.9		18
138.6	Indian River - Mouth	1	S31N02W09CDA	820905	1555	16.0	--	8.2	11.0	93	6.8		2
138.6	Indian River - Mouth	3	S31N02W09CDA	820905	1600	16.0	--	8.1	11.1	94	6.9		13
138.6	Indian River - Mouth	1	S31N02W09CDA	820925	1545	10.2	--	5.3	12.6	99	6.8		<1
138.6	Indian River - Mouth	3	S31N02W09CDA	820925	1600	10.2	--	5.2	12.3	96	6.9		16
138.6	Indian R.-Helio Site 1	1	S32N02W28DDC	820606	0850	9.3	--	3.0	11.1	84	6.2	30	3
(TRM2.7)	Indian R.-Helio Site 1	1	S32N02W28DDC	820709	1525	18.6	--	10.4	10.4	97	6.7	35	<1
(TRM2.7)	Indian R.-Helio Site 1	1	S32N02W28DDC	820808	1415	22.2	--	10.1	10.1	95	7.0	42	3
(TRM2.7)	Indian R.-Helio Site 1	1	S32N02W28DDC	820905	1055	11.8	--	6.7	6.7	93	6.5	46	5
(TRM2.7)	Indian River -- Helio Site 2	1	S32N02W11DDC	820607	0950	--	--	2.8	2.8	84	6.3	29	2
(TRM 7.2)	Indian River -- Helio Site 2	1	S32N02W11DDC	820709	1550	19.0	--	9.0	9.0	101	6.7	34	<1
(TRM 7.2)	Indian River -- Helio Site 2	1	S32N02W11DDC	820808	1455	19.0	--	9.7	9.7	94	7.1	39	<1
(TRM 7.2)	Indian River -- Helio Site 2	1	S32N02W11DDC	820905	1145	11.6	--	6.5	6.5	93	6.6	43	4
(TRM 7.2)	Indian River -- Helio Site 2	1	S32N01W04BAB	820607	0915	8.0	--	2.6	2.6	79	6.1	29	<1
(TRM 12.0)	Indian River -- Helio Site 3	1	S32N02W11DDC	820709	1625	19.0	--	8.4	8.4	89	6.8	34	<1
(TRM 12.0)	Indian River -- Helio Site 3	1	S32N02W11DDC	820808	1515	18.4	--	8.6	8.6	89	7.2	42	<1
(TRM 12.0)	Indian River -- Helio Site 3	1	S32N02W11DDC	820905	1215	11.4	--	6.0	6.0	90	6.6	43	4

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Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	Hydrolab Measurements					
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
DESIGNATED FISH HABITAT SITES													
138.8	Slough 16B, Q Site	-	S31N02W17ABC	820902	1140	--	7.2	7.0	--	--	--	56	--
138.8	Slough 16B, Q Site	-	S31N02W17ABC	820915	1500	--	7.8	7.5	11.8	99	6.6	34	--
MAINSTEM ADULT ANADROMOUS FISH HABITAT INVESTIGATIONS													
138.9	Susitna River	-	S31N02W09DBD	820906	1220	12.2	--	5.1	9.0	70	7.1	58	--
ADULT ANADROMOUS FISH INVESTIGATIONS													
139.7	Slough 19, Transect 1	-	S31N02W10DBB	821001	1305	4.8	--	4.1	--	--	--	52	--
139.7	Slough 19, Transect 2	-	S31N02W10DBB	821001	1317	--	--	4.0	--	--	--	147	--
139.7	Slough 19, Transect 3	-	S31N02W10DBB	821001	1337	--	--	3.3	--	--	--	111	--
140.0	Slough 19	2	S31N02W10DBB	820605	1250	10.8	--	4.8	9.2	72	6.0	139	< 1
140.0	Slough 19	3	S31N02W10DBB	820605	1245	7.9	--	5.3	7.3	58	6.2	93	22
140.0	Slough 19	1	S31N02W10DBB	820617	1230	--	--	3.9	10.6	81	6.6	107	3
140.0	Slough 19	2	S31N02W10DBB	820617	1245	--	--	5.9	11.6	94	7.0	128	< 1
140.0	Slough 19	3	S31N02W10DBB	820617	1300	--	--	8.6	13.2	112	7.0	84	16
140.0	Slough 19	2	S31N02W10DBB	820707	1245	23.5	--	10.5	8.4	76	6.5	134	2
140.0	Slough 19	3	S31N02W10DBB	820707	1250	23.5	--	13.9	9.4	91	7.0	113	132
140.0	Slough 19	2	S31N02W10DBB	820723	1445	--	--	5.3	8.5	67	6.8		2
140.0	Slough 19	3	S31N02W10DBB	820723	1440	13.4	--	9.8	10.5	93	7.6		24
140.0	Slough 19	1	S31N02W10DBB	820806	--	--	--	--	--	--	--	--	1
140.0	Slough 19	2	S31N02W10DBB	820806	1340	--	--	8.6	--	--	--	128	2
140.0	Slough 19	3	S31N02W10DBB	820806	1330	21.6	--	12.6	--	--	--	119	45
140.0	Slough 19	1	S31N02W10DBB	820819	1130	13.0	--	5.8	9.3	74	7.0		3
140.0	Slough 19	2	S31N02W10DBB	820819	1135	13.0	--	6.2	9.4	76	7.1		6
140.0	Slough 19	3	S31N02W10DBB	820819	1145	13.0	--	11.4	10.6	97	7.7		150
140.0	Slough 19	1	S31N02W10DBB	820904	1515	--	--	8.1	10.1	86	6.7		< 1
140.0	Slough 19	3	S31N02W10DBB	820904	1510	--	--	8.7	11.3	97	7.3		56
140.0	Slough 19	1	S31N02W10DBB	820925	1145	12.0	--	3.9	9.5	72	6.8		< 1
130.0	Slough 19	3	S31N02W10DBB	820925	1215	12.0	--	4.3	11.8	91	7.1		61

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Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	Hydrolab Measurements					
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
140.1	Slough 20	9	S31N02W11BBC	820708	1130	--	--	10.4	11.6	104	6.8	96	1
140.1	Slough 20	3	S31N02W11BBC	820724	1600	--	--	7.5	10.2	85	7.1	--	12
140.1	Slough 20	4	S31N02W11BBC	820724	1215	12.1	--	9.3	10.6	93	7.4	--	50
140.1	Slough 20	5	S31N02W11BBC	820724	1525	--	--	7.6	10.3	86	7.1	--	7
140.1	Slough 20	1	S31N02W11BBC	820807	1600	12.2	--	9.2	--	--	--	84	< 1
140.1	Slough 20	3	S31N02W11BBC	820807	1610	12.2	--	10.1	--	--	--	92	34
140.1	Slough 20	9	S31N02W11BBC	820807	1620	12.2	--	11.2	--	--	--	74	2
140.1	Slough 20	1	S31N02W11BBC	820820	1815	20.8	--	10.0	11.6	102	8.0	--	< 1
140.1	Slough 20	3	S31N02W11BBC	820820	1820	--	--	12.4	10.4	97	7.8	--	46
140.1	Slough 20	1	S31N02W11BBC	820904	1150	12.4	--	6.3	12.4	100	7.1	--	5
140.1	Slough 20	3	S31N02W11BBC	820904	1330	--	--	7.1	12.1	100	7.4	--	12
140.1	Slough 20	1	S31N02W11BBC	820926	1200	7.9	--	4.1	12.8	97	7.3	--	1
140.1	Slough 20	3	S31N02W11BBC	820926	1210	7.9	--	4.1	12.7	96	6.7	--	4
140.1	Slough 20	1	S31N02W11BBC	821010	1650	0.0	--	1.0	15.7	110	7.5	91	2
140.1	Slough 20	3	S31N02W11BBC	821010	1700	0.0	--	0.9	15.2	105	7.6	153	5
140.1	Slough 20, Q Site	-	S31N02W11BBC	820820	1120	--	8.0	7.8	11.7	98	7.3	93	--
140.1	Slough 20, Q Site	-	S31N02W11BBC	820901	1725	--	--	7.8	--	--	--	75	--
140.1	Slough 20, Q Site	-	S31N02W11BBC	820916	1500	--	--	6.4	12.0	97	6.4	72	--
140.1	Slough 20, Tributary Q Site	-	S31N02W11BBC	820901	1612	--	5.5	5.2	8.0	63	5.7	71	--
140.1	Slough 20, Tributary Q Site	-	S31N02W11BBC	820916	1300	--	--	6.1	11.0	89	6.4	48	--
ADULT ANADROMOUS FISH INVESTIGATIONS													
140.1	Slough 20, Transect	1	S31N02W11BBC5	821001	1105	4.5	--	3.2	--	--	6.2	81	--
140.1	Slough 20, Transect	2	S31N02W11BBC5	821001	1145	--	--	4.2	--	--	--	72	--
140.1	Slough 20, Transect	3	S31N02W11BBC5	821001	1203	--	--	4.2	--	--	--	81	--
140.1	Slough 20, Transect	A	S31N02W11BBC5	821001	1104	--	--	3.0	--	--	--	83	--
140.1	Slough 20, Transect	B	S31N02W11BBC5	821001	1205	--	--	4.1	--	--	--	70	--
DESIGNATED FISH HABITAT SITES													
142.0	Slough 21	3	S31N02W02AAA	820606	1136	11.8	--	7.4	5.9	49	6.4	82	24
142.0	Slough 21	4	S31N02W02AAA	820606	1115	11.8	--	7.3	9.5	79	6.0	120	9
142.0	Slough 21	6	S31N02W02AAA	820606	1130	11.8	--	7.2	8.2	68	6.4	141	2

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Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	Hydrolab Measurements					
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
142.0	Slough 21	3	S31N02W02AAA	820619	1130	--	--	10.5	10.8	88	6.8	188	3
142.0	Slough 21	4	S31N02W02AAA	820619	1150	--	--	10.1	12.7	104	7.1	115	11
142.0	Slough 21	6	S31N02W02AAA	820619	1146	--	--	9.9	11.4	94	7.2	143	4
142.0	Slough 21	1	S31N02W02AAA	820711	1455	--	--	8.0	5.3	44	7.2	277	2
142.0	Slough 21	3	S31N02W02AAA	820711	1445	--	--	11.4	4.8	44	7.5	151	110
142.0	Slough 21	3	S31N02W02AAA	820725	1530	12.4	--	9.3	10.9	95	7.4	--	39
142.0	Slough 21	4	S31N02W02AAA	820725	1640	--	--	9.0	10.2	88	7.3	--	30
142.0	Slough 21	6	S31N02W02AAA	820725	1620	--	--	9.1	10.2	88	7.1	--	62
142.0	Slough 21	1	S31N02W02AAA	820809	1500	13.8	--	6.7	9.8	80	7.3	--	4
142.0	Slough 21	2	S31N02W02AAA	820809	1505	13.8	--	6.2	10.9	88	7.3	--	2
142.0	Slough 21	3	S31N02W02AAA	820809	1510	13.8	--	8.8	10.9	94	7.4	--	36
142.0	Slough 21	1	S31N02W02AAA	820820	1440	19.0	--	9.3	9.6	84	7.3	--	2
142.0	Slough 21	2	S31N02W02AAA	820820	1515	--	--	10.8	9.8	88	7.4	--	<1
142.0	Slough 21	3	S31N02W02AAA	820820	1500	--	--	12.6	10.3	97	7.8	--	92
142.0	Slough 21	1	S31N02W02AAA	820906	1120	14.8	--	5.2	10.2	80	6.8	--	2
142.0	Slough 21	2	S31N02W02AAA	820906	1100	14.8	--	5.3	10.3	81	6.7	--	2
142.0	Slough 21	3	S31N02W02AAA	820906	1100	14.8	--	6.2	10.6	86	7.2	--	24
142.0	Slough 21	1	S31N02W02AAA	820927	1300	8.2	--	4.7	10.7	83	7.2	--	1
142.0	Slough 21	2	S31N02W02AAA	820927	1245	8.2	--	4.6	11.2	87	7.1	--	1
142.0	Slough 21	3	S31N02W02AAA	820927	1235	8.2	--	4.9	12.8	100	7.5	--	29
142.0	Slough 21	-	S31N02W02AAA	820916	1100	--	--	7.5	11.4	95	7.4	--	--
ADULT ANADROMOUS FISH INVESTIGATIONS													
142.1	Slough 21, Transect 1		S31N02W02AAA11	820904	1323	--	--	5.6	9.3	74	7.2	182	--
142.1	Slough 21, Transect 1		S31N02W02AAA11	820918	1507	--	--	6.0	10.8	87	7.4	121	--
142.1	Slough 21, Transect 2		S31N02W02AAA11	820904	1306	--	--	5.5	9.5	74	7.1	186	--
142.1	Slough 21, Transect 3		S31N02W02AAA11	820904	1258	--	--	5.5	9.3	74	7.2	190	--
142.1	Slough 21, Transect 4		S31N02W02AAA11	820904	1249	--	--	5.4	9.5	75	7.1	190	--
142.1	Slough 21, Transect 4		S31N02W02AAA11	820019	1452	--	--	5.9	11.6	93	7.5	121	--
142.1	Slough 21, Transect 5		S31N02W02AAA11	820903	1730	13.0	--	6.1	5.9	48	6.8	191	--
142.1	Slough 21, Transect 5		S31N02W02AAA11	820904	1241	13.0	--	5.5	10.2	81	7.2	192	--
142.1	Slough 21, Transect 5		S31N02W02AAA11	820918	1415	14.0	--	5.2	9.5	75	7.1	196	--
142.1	Slough 21, Transect 6		S31N02W02AAA11	820904	1341	12.6	--	5.6	10.3	82	7.2	199	--
142.1	Slough 21, Transect 6		S31N02W02AAA11	820918	1540	--	--	4.8	9.2	72	7.1	198	--
142.1	Slough 21, Transect 6		S31N02W02AAA11	821001	1200	--	--	4.2	--	--	--	201	--
142.1	Slough 21, Transect 7		S31N02W02AAA11	821001	1300	--	--	3.5	--	--	--	198	--
142.1	Slough 21, Transect 8		S31N02W02AAA11	821001	1230	--	--	3.7	--	--	--	199	--
142.1	Slough 21, Transect 9		S31N02W02AAA11	821001	1330	--	--	3.4	--	--	--	202	--
142.1	Slough 21, Transect 10		S31N02W02AAA11	821001	1430	--	--	4.4	--	--	--	238	--

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Table 4-D-4 (Continued)

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	Hydrolab Measurements					
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
142.1	Slough 21, Transect A		S31N02W02AAA11	820904	1332	--	--	7.7	11.1	93	7.6	135	--
142.1	Slough 21, Transect B		S31N02W02AAA11	820904	1315	--	--	7.1	8.3	69	7.2	185	--
142.1	Slough 21, Transect C		S31N02W02AAA11	820918	1526	--	--	6.0	11.7	94	7.6	114	--
142.1	Slough 21, Transect D		S31N02W02AAA11	821001	1400	--	--	3.4	--	--	--	148	--
DESIGNATED FISH HABITAT SITES													
144.3	Slough 22	3	S32N02W32BBC	820607	1520	--	--	6.5	10.8	88	6.4	52	25
144.3	Slough 22	4	S32N02W32BBC	820607	1500	--	--	6.7	10.9	89	6.3	55	8
144.3	Slough 22	3	S32N02W32BBC	820619	1835	--	--	9.9	12.9	113	7.2	58	27
144.3	Slough 22	4	S32N02W32BBC	820619	1815	--	--	9.6	13.1	114	7.4	55	9
144.3	Slough 22	6	S32N02W32BBC	820619	1830	--	--	10.6	13.2	117	7.2	66	13
144.3	Slough 22	3	S32N02W32BBC	820710	1205	4.4	--	11.2	10.8	98	6.7	106	130
144.3	Slough 22	4	S32N02W32BBC	820710	1200	4.4	--	10.5	9.3	83	6.8	141	84
144.3	Slough 22, ADF&G Transect-		S32N01W32BBD	820831	1150	10.6	9.0	8.7	11.3	--	6.4	41	--
144.3	Slough 22, ADF&G Transect-		S32N01W32BBD	820915	1715	--	7.4	7.1	12.9	106	7.3	90	--
144.3	Slough 22, Q Site	-	S32N01W32BBD	820918	1500	11.6	6.2	5.7	12.5	100	7.4	100	--
ADULT ANADROMOUS FISH INVESTIGATIONS													
144.3	Slough 22, Transect 1	-	S32N01W32BBC7	820930	1434	--	--	5.1	11.4	89	6.7	84	--
144.3	Slough 22, Transect 2	-	S32N01W32BBC7	820930	1456	--	--	5.6	11.1	88	6.6	73	--
144.3	Slough 22, Transect 3	-	S32N01W32BBC7	820930	1400	--	--	5.7	10.9	87	6.8	78	--
144.3	Slough 22, Transect 4	-	S32N01W32BBC7	820930	1357	--	--	5.6	12.0	95	6.9	49	--
144.3	Slough 22, Transect 5	-	S32N01W32BBC7	820930	1300	9.0	--	4.5	10.2	79	6.5	106	--
144.3	Slough 22, Transect 4	-	S32N01W32BBC7	820930	1450	--	--	5.0	12.7	99	6.5	34	--
144.3	Slough 22, Transect B	-	S32N01W32BBC7	820930	1340	--	--	5.6	12.0	95	6.9	45	--
MAINSTEM ADULT ANADROMOUS FISH HABITAT INVESTIGATIONS													
148.2	Susitna River	-	S32N01W26DCA	820905	1300	13.0	--	7.5	9.9	82	8.6	96	--
DESIGNATED FISH HABITAT SITES													
148.8	Portage Creek Mouth	1	S32N01W25CAC	820606	1030	--	--	2.9	11.7	86	6.2	46	8
148.8	Portage Creek Mouth	1	S32N01W25CAC	820710	1600	--	--	7.6	11.6	97	7.0	66	8
148.8	Portage Creek Mouth	3	S32N01W25CAC	820710	1615	--	--	8.1	11.4	96	7.0	70	44
148.8	Portage Creek Mouth	9	S32N01W25CAC	820710	1610	--	--	7.6	10.4	87	7.0	84	7
148.8	Portage Creek Mouth	1	S32N01W25CAC	820726	1700	14.8	--	6.4	11.2	91	7.1		9
148.8	Portage Creek Mouth	3	S32N01W25CAC	820726	1720	--	--	6.8	11.0	90	7.1		100

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Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	Hydrolab Measurements					
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
148.8	Portage Creek Mouth	1	S32N01W25CAC	820808	1640	--	--	9.7	10.8	95	7.5		< 1
148.8	Portage Creek Mouth	3	S32N01W25CAC	820808	1645	19.9	--	9.7	10.6	93	7.4		14
148.8	Portage Creek Mouth	1	S32N01W25CAC	820905	1010	11.3	--	5.8	12.3	98	6.7		<1
148.8	Portage Creek Mouth	3	S32N01W25CAC	820905	1015	11.3	--	5.9	12.1	97	6.8		4
148.8	Portage Creek Mouth	1	S32N01W25CAC	820928	1400	5.4	--	3.1	12.7	94	7.1		<1
148.8	Portage Creek (TRM 46) Helio Site	1	S32N01E08CBA	820607	1615	8.0	--	2.4	11.0	81	6.4	48	4
148.8	Portage Creek (TRM 46) Helio Site 1	1	S32N01E08CBA	820709	1730	19.0	--	8.7	11.6	100	6.6	61	<1
148.8	Portage Creek (TRM 9.2) Helio Site 2	1	S33N01E26DDC	820607	1135	--	--	2.4	11.5	84	6.3	44	1
148.8	Portage Creek (TRM 9.2) Helio Site 2	1	S33N01E26DDC	820709	1750	18.5	--	8.0	10.7	91	6.9	55	2
148.8	Portage Creek (TRM 15.5) Helio Site 3	1	S22N08W28BAB	820607	1210	--	--	1.7	11.5	82	6.4	37	3
148.8	Portage Creek (TRM 15.5) Helio Site 3	1	S22N08W28BAB	820709	1800	18.5	--	6.0	12.0	96	6.7	36	<1
IMPOUNDMENT STUDY													
152.4	Cheechako Creek Mouth		S32N01E33CCE	820808	1555			10.8	10.4	98	7.2	23	
152.4	Cheechako Creek Mouth		S32N01E33CCE	820806	1525			11.6	9.8	94	7.0	30	
152.4	Cheechako Creek Mouth		S32N01E33CCE	820811	1430	17.0		9.4	11.1	100	7.0	22	<1
161.4	Devil Creek Mouth		S32N02E34AAC	820822	0930	9.6		7.4	11.2	97	7.3	57	
176.7	Fog Creek Mouth		S31N04E16DBB	820505	1530	4.7		1.1	13.2	97	7.4		
176.7	Fog Creek Mouth		S31N04E16DBB	820516	1345	11.0		0.4	13.5	97	7.5	37	4
176.7	Fog Creek Mouth		S31N04E16DBB	820528	1630	6.0		3.5	11.8	93	7.1	63	3
176.7	Fog Creek Mouth		S31N04E16DBB	820621	1130	10.8		4.5	11.6	94	6.9	50	2
176.7	Fog Creek Mouth		S31N04E16DBB	820718	1130	14.8		7.5	11.5	100	7.2	65	<1
176.7	Fog Creek Mouth		S31N04E16DBB	820815	1300	15.8		9.4	12.9	118	8.1	99	<1
176.7	Fog Creek Mouth		S31N04E16DBB	820912	1155	8.1		3.6	12.4	108	7.5	83	<1
176.7	Susitna River		S31N04E16DBB	820621	1135	10.8		7.3	10.7	93	7.0	84	66
176.7	50 ft. Above Fog Creek Susitna River		S31N04E16DBB	820718	1140	14.6		8.6	10.6	94	7.2	92	36
176.7	50 ft. Above Fog Creek Susitna River		S31N04E16DBB	820815	1315	15.8		9.7	9.0	83	7.2	110	85
176.7	50 ft. Above Fog Creek Susitna River		S31N04E16DBB	820912	1150	8.1		5.7	11.0	91	7.4	128	24
181.3	50 ft. Above Fog Creek Tsusena Creek Mouth		S32N04E36ADB	820505	1500	4.7		1.4	14.0	104	7.3	--	--
181.3	Tsusena Creek Mouth		S32N04E36ADB	820515	1705	7.8		0.3	13.8	100	7.4	121	5
181.3	Tsusena Creek Mouth		S32N04E36ADB	820528	1420	7.0		2.6	12.2	94	6.9	96	<1
181.3	Tsusena Creek Mouth		S32N04E36ADB	820619	1140	18.2		5.3	11.4	95	7.0	33	2

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Table 4-D-4 (Continued)

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	HydroLab Measurements					Turbidity NTU
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	
181.3	Tsusena Creek Mouth		S32N04E36ADB	820718	1430	15.8		7.9	11.6	103	7.2	57	<1
181.3	Tsusena Creek Mouth		S32N04E36ADB	820728	1600			9.9	11.3	105	7.2	61	
181.3	Tsusena Creek Mouth		S32N04E36ADB	820816	1210	15.8		7.9	13.6	120	7.7	97	<1
181.3	Tsusena Creek Mouth		S32N04E36ADB	820912	1415	10.2		5.9	11.6		7.4	87	<1
181.3	Susitna River		S32N04E36ADB	820619	1200	18.8		8.8	10.2	93	7.2	73	38
	50 ft above Tsusena												
181.3	Susitna River		S32N04E36ADB	820718	1440	16.6		11.0	10.3	99	7.5	122	140
	50 ft above Tsusena												
181.3	Susitna River		S32N04E36ADB	820816	1200	15.8		10.3	12.6	118	8.1	119	150
	50 ft above Tsusena												
181.3	Susitna River		S32N04E36ADB	820912	1410	10.2		6.2	11.7	100	7.5	127	25
	50 ft above Tsusena												
186.7	Deadman Creek Mouth		S32N05E26CDB	820505	1430	4.8		0.8	14.2	104	7.3		
186.7	Deadman Creek Mouth		S32N05E26CDB	820516	1245			0.5	13.8	100	7.4	61	7
186.7	Deadman Creek Mouth		S32N05E26CDB	820528	1330	5.8		0.9	12.7	94	7.0	53	2
186.7	Deadman Creek Mouth		S32N05E26CDB	820619	1330	17.8		6.1	11.2	95	7.0	28	7
186.7	Deadman Creek Mouth		S32N05E26CDB	820718	1010	10.6		9.6	11.1	103	7.5	59	1
186.7	Deadman Creek Mouth		S32N05E26CDB	820816	1645	16.8		13.9	11.5	100	7.8	66	<1
186.7	Deadman Creek Mouth		S32N05E26CDB	820911	1225	9.1		6.6	11.7	100	7.1	66	<1
186.7	Susitna River, 50 ft		S32N05E26CDB	820619	1315	17.8		8.7	10.2	93	7.3	80	38
	Above Deadman Creek												
186.7	Susitna River, 50 ft		S32N05E26CDB	820718	1000	10.6		9.0	10.7	98	8.1	136	135
	Above Deadman Creek												
186.7	Susitna River, 50 ft		S32N05E26CDB	820816	1650	16.8		10.8	11.6	110	7.9	146	140
	Above Deadman Creek												
186.7	Susitna River, 50 ft		S32N05E26CDB	820911	1220	9.1		5.8	11.5	97	7.4	136	33
	Above Deadman Creek												
186.7	Watana Creek Mouth		S32N06E25CCA	820505	1420	4.8		0.1	14.1	102	7.5		
186.7	Watana Creek Mouth		S32N06E25CCA	820517	1200	8.0		1.9	13.1	100	7.4	82	17
186.7	Watana Creek Mouth		S32N06E25CCA	820525	2130	4.7		2.2	10.1	77	6.7	101	--
186.7	Watana Creek Mouth		S32N06E25CCA	820526	1620	11.5		4.9	11.3	93	7.1	104	25
186.7	Watana Creek Mouth		S32N06E25CCA	820620	1800	12.8		5.7	11.7	99	7.0	63	8
186.7	Watana Creek Mouth		S32N06E25CCA	820623	1830	21.8		11.9	9.9	97	7.4	108	7
186.7	Watana Creek Mouth		S32N06E25CCA	820624	1800	24.1		12.7	9.6	99	7.4	114	--
186.7	Watana Creek Mouth		S32N06E25CCA	820628	0915	18.2		8.5	10.4	94	7.4	103	--
194.1	Watana Creek Mouth		S32N06E25CCA	820718	1700	13.8		9.8	10.8	102	7.6	151	20
194.1	Watana Creek Mouth		S32N06E25CCA	820726	0950	15.0		7.0	12.1	105	7.2	122	8
194.1	Watana Creek Mouth		S32N06E25CCA	820729	1200	8.0		9.1	11.0	100	7.6	163	--
194.1	Watana Creek Mouth		S32N06E25CCA	820811	0700	4.8		6.2	12.5	105	7.3	169	--
194.1	Watana Creek Mouth		S32N06E25CCA	820812	0800	6.4		4.0	12.8	104	7.5	191	<1
194.1	Watana Creek Mouth		S32N06E25CCA	820813	0740	--		5.4	11.9	99	7.5	195	--
194.1	Watana Creek Mouth		S32N06E25CCA	820814	0700	9.6		8.3	11.0	100	7.6	194	--
194.1	Watana Creek Mouth		S32N06E25CCA	820815	0730	7.0		7.0	12.2	105	7.6	200	--

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Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	Hydrolab Measurements					
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
194.1	Watana Creek Mouth		S32N06E25CCA	820816	0720	9.0		6.0	13.7	115	8.0	206	--
194.1	Watana Creek Mouth		S32N06E25CCA	820817	0820	6.8		6.8	10.4	90	7.4	184	9
194.1	Watana Creek Mouth		S32N06E25CCA	820818	0700	5.9		5.9	11.9	100	7.3	186	--
194.1	Watana Creek Mouth		S32N06E25CCA	820819	0730	1.6		5.1	12.5	104	7.4	188	--
194.1	Watana Creek Mouth		S32N06E25CCA	820820	0730	7.6		6.0	12.0	101	7.5	191	--
194.1	Watana Creek Mouth		S32N06E25CCA	820821	0650	8.4		6.5	11.5	99	7.4	191	--
194.1	Watana Creek Mouth		S32N06E25CCA	820822	0730	2.8		5.4	11.7	98	7.5	198	--
194.1	Watana Creek Mouth		S32N06E25CCA	820823	0740	11.4		8.0	10.1	90	7.5	202	--
194.1	Watana Creek Mouth		S32N06E25CCA	820824	0700	8.4		7.1	11.3	99	7.5	206	--
194.1	Watana Creek Mouth		S32N06E25CCA	820825	0730	7.1		7.7	11.0	97	7.2	211	--
194.1	Watana Creek Mouth		S32N06E25CCA	820826	0645	6.4		6.6	11.4	99	7.4	212	--
194.1	Watana Creek Mouth		S32N06E25CCA	820909	0730	4.8		5.1	11.8	98	7.1	164	--
194.1	Watana Creek Mouth		S32N06E25CCA	820910	0730	3.6		4.7	11.9	97	7.2	172	--
194.1	Watana Creek Mouth		S32N06E25CCA	820911	0730	1.8		3.1	13.2	102	7.2	176	--
194.1	Watana Creek Mouth		S32N06E25CCA	820912	0800	4.8		3.0	13.2	104	7.2	183	--
194.1	Watana Creek Mouth		S32N06E25CCA	820913	0730	9.6		3.9	12.5	100	7.3	169	--
194.1	Watana Creek Mouth		S32N06E25CCA	820914	0730	6.4		4.7	12.1	100	7.0	118	--
194.1	Watana Creek Mouth		S32N06E25CCA	820915	0745	9.6		5.0	11.8	98	7.2	104	--
194.1	Watana Creek Mouth		S32N06E25CCA	820916	0800	5.8		5.3	11.4	95	7.3	105	--
194.1	Watana Creek Mouth		S32N06E25CCA	820917	0730	3.2		4.0	12.4	100	7.2	124	--
194.1	Watana Creek Mouth		S32N06E25CCA	820918	0745	3.0		3.6	12.7	100	7.1	134	--
194.1	Watana Creek Mouth		S32N06E25CCA	820919	0745	7.1		4.6	10.4	85	7.2	147	--
194.1	Watana Creek Mouth		S32N06E25CCA	820920	0745	4.2		3.8			7.3	147	--
194.1	Watana Creek, 2 Mile Study Section		S32N07E17BAD	820626	1600	26.0		10.9	9.9	95	7.4	96	--
194.1	Watana Creek, 2 Mile Study Section		S32N07E17BAD	820729	1300	14.5		9.0	11.4	105	7.2	142	--
194.1	Watana Creek, 2 Mile Study Section		S32N07E17BAD	820825	1240			8.5	11.1	102	7.6	184	--
194.1	Watana Creek, East Fork		S33N07E34CCA	820825	1200	9.1		8.1	10.7	98	7.6	80	--
194.1	Watana Creek, West Fork		S33N07E34CCA	820825	1235	9.6		8.2	11.2	102	7.7	193	--
194.1	Susitna River, 50 ft Above Watana Creek		S32N06E25CCA	820623	1000	17.0		10.6	10.3	98	7.2	92	48
194.1	Susitna River, 50 ft Above Watana Creek		S32N06E25CCA	820726	1010	16.0		9.0	11.5	105	6.8	117	150
194.1	Susitna River, 50 ft Above Watana Creek		S32N06E25CCA	820812	1030	12.4		9.1	10.8	99	7.5	138	100
194.1	Susitna River, 50 ft Above Watana Creek		S32N06E25CCA	820915	1645	13.0		8.2	10.7	96	7.6	128	100
206.8	Mainstem-50 above Kosina Creek		S31N08E15BAB	820627	1100	21.0		13.0	09.5	095	07.4	108	130
206.8	Mainstem-50 above Kosina Creek		S31N08E15BAB	820726	1055	17.6		09.4	11.0	102	07.3	116	130

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Table 4-B-4 (Continued)

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	HydroLab Measurements					Turbidity NTU
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	
206.8	Mainstem-50 above Kosina Creek		S31N08E15BAB	820812	1130	13.2		9.5	10.0	98	7.2	133	80
206.8	Mainstem-50 above Kosina Creek		S31N08E15BAB	820914	1330	11.8		6.3	11.3	97	7.3	134	28
206.8	Kosina Creek Mouth		S31N08E15BAB	820504	1630	4.7		1.8	14.1	108	7.2	--	--
206.8	Kosina Creek Mouth		S31N08E15BAB	820504	1800			1.5	14.1	107	7.1	--	--
206.8	Kosina Creek Mouth		S31N08E15BAB	820505	1130	4.3		0.8	14.1	104	7.6	--	--
206.8	Kosina Creek Mouth		S31N08E15BAB	820505	1230			1.1	13.5	100	7.5	--	--
206.8	Kosina Creek Mouth		S31N08E15BAB	820505	1630			1.4	13.8	104	7.6	--	--
206.8	Kosina Creek Mouth		S31N08E15BAB	820505	1930	0.4		1.0	14.0	104	7.5	--	--
206.8	Kosina Creek Mouth		S31N08E15BAB	820513	1200	2.8		0.6	13.4	97	7.4	89	--
206.8	Kosina Creek Mouth		S31N08E15BAB	820515	1200	7.8		1.5	12.6	94	7.3	79	2
206.8	Kosina Creek Mouth		S31N08E15BAB	820516	1200			1.2	13.2	98	7.5	68	
206.8	Kosina Creek Mouth		S31N08E15BAB	820526	1400	12.0		2.3	11.8	91	6.8	43	2
206.8	Kosina Creek Mouth		S31N08E15BAB	820623	1200	21.0		9.0	10.1	93	7.3	37	3
206.8	Kosina Creek Mouth		S31N08E15BAB	820627	1030	20.1		10.0	9.9	94	7.1	39	
206.8	Kosina Creek Mouth		S31N08E15BAB	820726	1205	17.3		11.2	11.0	106	7.3	68	<1
206.8	Kosina Creek Mouth		S31N08E15BAB	820812	1130	13.2		8.4	11.0	100	7.3	70	<1
206.8	Kosina Creek Mouth		S31N08E15BAB	820914	1335	11.8		6.8	11.9	104	7.2	62	1
208.5	Jay Creek Mouth		S31N08E13BBC	820505	1315	4.8		0.3	13.9	100	7.8		
208.5	Jay Creek Mouth		S31N08E13BBC	820516	1100	10.0		0.6	13.4	98	7.6	77	14
208.5	Jay Creek Mouth		S31N08E13BBC	820529	1000	10.0		2.9	12.0	94	7.1	60	37
208.5	Jay Creek Mouth		S31N08E13BBC	820624	1600	27.2		12.1	9.9	98	8.1	103	19
208.5	Jay Creek Mouth		S31N08E13BBC	820726	1125	19.2		8.1	11.7	105	8.0	158	2
208.5	Jay Creek Mouth		S31N08E13BBC	820812	1200	14.4		6.9	11.3	99	7.7	178	<1
208.5	Jay Creek Mouth		S31N08E13BBC	820915	1510	15.8		8.2	10.7	97	7.9	120	3
208.7	Upper Jay Creek Slough		S31N08E13BCD	820529	1430	10.6		6.6	4.8	59	6.8	452	1
208.7	Upper Jay Creek Slough		S31N08E13BCD	820624	1620	27.2		13.6	6.3	65	7.0	398	
208.7	Upper Jay Creek Slough		S31N08E13BCD	820726	1110	19.2		7.5	8.7	77	6.7	473	7
208.7	Upper Jay Creek Slough		S31N08E13BCD	820812	1145	14.0		6.6	8.3	72	6.8	396	4
208.7	Upper Jay Creek Slough		S31N08E13BCD	820915	1455	15.8		8.7	9.9	91	7.1	401	3
208.7	Mainstem - 50 Feet Above Upper Jay Creek Slough		S31N08E13BCD	820529	1515	10.2		5.3	10.8	91	7.0	89	42
208.7	Mainstem - 50 Feet Above Upper Jay Creek Slough		S31N08E13BCD	820624	1615	27.2		13.9	9.6	99	7.5	96	46
208.7	Mainstem - 50 Feet Above Upper Jay Creek Slough		S31N08E13BCD	820726	1120	19.3		9.0	11.0	101	7.7	115	130
208.7	Mainstem - 50 Feet Above Upper Jay Creek Slough		S31N08E13BCD	820812	1145	14.0		9.4	11.5	98	7.0	139	140
208.7	Mainstem - 50 Feet Above Upper Jay Creek Slough		S31N08E13BCD	820915	1450	15.0		8.0	10.7	96	7.7	124	98
231.3	Upper Goose Creek Mouth		S30N11E32DBC	820505	1345	4.9		0.5	13.3	100	7.4		
231.3	Upper Goose Creek Mouth		S30N11E32DBC	820514	0800	2.5		0.2	13.8	100	7.1	47	1

N-0-0-0-0

Table 4-D-4 (Continued).

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp °C	Water (Mercury) Temp °C	Hydrolab Measurements					
								Water Temp °C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	Turbidity NTU
231.3	Upper Goose Creek Mouth		S30N11E32DBC	820618	1430	11.0		6.1	11.2	97	6.8	34	2
231.3	Upper Goose Creek Mouth		S30N11E32DBC	820627	1200	22.3		12.0	9.6	96	7.2	48	--
231.3	Upper Goose Creek Mouth		S30N11E32DBC	820621	1630	17.0		14.0	10.0	104	7.3	65	<1
231.3	Upper Goose Creek Mouth		S30N11E32DBC	820728	1500			14.8	9.7	103	7.3	77	--
231.3	Upper Goose Creek Mouth		S30N11E32DBC	820818	1645	17.2		13.0	9.7	100	7.4	69	<1
231.3	Upper Goose Creek Mouth		S30N11E32DBC	820910	1425	10.6		6.6	11.2	98	7.2	68	<1
231.3	Mainstem - 50 Feet Above Upper Goose Creek		S30N11E32DBC	820514	0930	2.5		0.1	13.5	98	7.3	10	14
231.3	Mainstem - 50 Feet Above Upper Goose Creek		S30N11E32DBC	820514	1200	3.5		0.2	13.0	94	7.2	83	66
231.3	Mainstem - 50 Feet Above Upper Goose Creek		S30N11E32DBC	820618	1440	11.0		7.1	10.6	95	7.0	95	33
231.3	Mainstem - 50 Feet Above Upper Goose Creek		S30N11E32DBC	820630	1245	22.0		11.4	9.6	94	7.4	93	--
231.3	Mainstem - 50 Feet Above Upper Goose Creek		S30N11E32DBC	820721	1640	17.0		12.4	10.4	105	7.5	116	125
231.3	Mainstem - 50 Feet Above Upper Goose Creek		S30N11E32DBC	820728	1500			11.2	10.5	102	7.7	124	--
231.3	Mainstem - 50 Feet Above Upper Goose Creek		S30N11E32DBC	820818	1650	17.2		8.7	10.3	95	6.6	113	110
231.3	Mainstem - 50 Feet Above Upper Goose Creek		S30N11E32DBC	820910	1440	10.6		6.0	11.4	99	7.2	138	32
233.4	Oshetna River Mouth		S30N11E34CCD	820505	1400	4.9		0.1	14.3	105	7.7	--	--
233.4	Oshetna River Mouth		S30N11E34CCD	820527	1400	10.8		3.4	11.4	92	7.2	56	5
233.4	Oshetna River Mouth		S30N11E34CCD	820627	1135	19.6		8.7	10.2	94	7.3	50	42
233.4	Oshetna River Mouth		S30N11E34CCD	820719	1650	23.0		14.4	6.6	101	7.5	99	6
233.4	Oshetna River Mouth		S30N11E34CCD	820728	1440			13.9	10.2	106	7.5	115	--
233.4	Oshetna River Mouth		S30N11E34CCD	820820	1805	19.2		12.8	10.4	106	7.8	114	2
233.4	Oshetna River Mouth		S30N11E34CCD	820909	1540	10.2		7.2	11.0	98	7.4	128	<1
233.4	Mainstem - 50 Feet Above Oshetna River		S30N11E34CCD	820527	1405	11.0		4.7	11.1	93	7.1	59	36
233.4	Mainstem - 50 Feet Above Oshetna River		S30N11E34CCD	820627	1130	19.6		13.4	9.5	99	7.6	122	140
233.4	Mainstem - 50 Feet Above Oshetna River		S30N11E34CCD	820719	1645	23.0		12.6	10.2	104	7.5	128	140
233.4	Mainstem - 50 Feet Above Oshetna River		S30N11E34CCD	820728	1445			11.6	10.5	103	7.7	125	--
233.4	Mainstem - 50 Feet Above Oshetna River		S30N11E34CCD	820820	1810	19.2		10.5	10.4	100	7.7	122	110
233.4	Mainstem - 50 Feet Above Oshetna River		S30N11E34CCD	820909	1550	10.2		6.3	11.1	96	6.7	144	43
	Sally Lake, West End		S32N07E29	820623	1500			16.9	8.0	90	7.3	111	--

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Table 4-D-4 (Continued)

River Mile	Site	Zone	Geographic Code	Date	Time	Air Temp°C	Water (Mercury) Temp°C	Hydrolab Measurements					Turbidity NTU
								Water Temp°C	D.O. (mg/l)	D.O. (% Sat.)	pH	Spec. Cond. umhos/cm	
	Sally Lake, West End		S32N07E29	820729	1240	15.2		16.0	8.1	89	7.5	122	
	Sally Lake, West End		S32N07E29	820819	1600	18.8		15.7	7.5	82	7.5	114	
	Sally Lake, West End		S32N07E29	820822	1330	20.6		17.4	8.0	91	7.7	113	
	Sally Lake, West End		S32N07E29	820908	1710	9.8		11.3	7.6	75	7.0	113	

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Appendix Table 4-D-5

Dissolved Gas Data-Continuous Record
 Hourly Data Record from 08/08/82, Time = 1800
 to 10/10/82, Time = 1400 (Zeros indicate no
 data collected)

Site location: River Mile 150.5 (Immediately below Devil Canyon)

Legend: % Sat=Percent Saturation Total Dissolved Gas
 Q=Gold Creek Discharge (Hourly values-Provisional USGS
 Data)
 Bar=Barometric Pressure from Talkeetna U.S Weather Bureau
 corrected for altitude at river mile 150.5
 Temp=Temperature in degrees Centigrade at dissolved gas
 monitoring station
 Sat=Saturometer Readings at Dissolved Gas Monitoring
 Station, River Mile 150.5

% Sat	Q	Bar	Temp	Sat Date 8/9/82
109.31	16467	735	12	814
109.24	16257	735	12	814
109.20	16152	736	11.5	814
109.14	16205	736	11.5	814
109.11	16152	736	11.5	814
109.11	16049	736	11	814
109.05	16101	737	11	814

Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat Date 8/10/82
109.30	16257	737	11	816
109.30	16309	737	11	816
109.25	16572	737	11	816
109.25	16731	737	11	816
109.25	17053	737	10.5	816
109.19	17161	738	10.5	816
109.46	17323	738	10.5	818
109.42	17433	738	10	818
109.42	17652	738	10	818
109.66	17707	738	10	820
109.66	17763	738	10	820
109.66	17763	738	10	820
109.69	17763	738	10	820
109.69	17707	738	10	820
109.73	17542	738	10	820
109.73	17487	738	10	820
109.46	17433	738	10	818
109.46	17215	738	10	818
109.46	17107	738	10	818
109.46	16999	738	10	818
109.19	16838	738	10	816
109.19	16731	738	10.5	816
109.17	16678	738	10.5	816
109.17	16572	738	10.5	816

% Sat	Q	Bar	Temp	Sat Date 8/11/82
109.17	16414	738	10.5	816
109.17	16414	738	10.5	816
109.17	16414	738	10.5	816
109.17	16467	738	10.5	816
109.17	16519	738	10	816
109.19	16678	738	10	816
109.50	16891	737	10	818
109.50	16999	737	10	818
109.54	17161	737	10	818
109.65	17269	736	10	818
109.61	17323	737	10	818
109.65	17323	736	10	818
109.65	17378	736	10	818
109.69	17269	736	10	818
109.45	17107	736	10	816
109.49	16945	736	10.5	816
109.53	16678	735	10	816
109.3	16572	735	10	814
109.3	16467	735	10	814
109.3	16257	735	10	812
109.3	16152	735	10	812
109.3	15894	735	10	812
109.04	15740	735	10	812
109.04	15638	735	10	812

Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat Date 8/12/82
108.77	15587	735	10.5	810
109.04	15536	735	10.5	812
109.04	15536	735	10	812
109.04	15536	735	10.5	812
109.04	15536	735	10	812
108.97	15536	735	10	812
108.97	15486	735	10	812
108.97	15435	735	10	812
108.97	15435	735	10	812
108.97	15435	735	10	812
108.7	15385	735	10	810
108.42	15284	735	10	808
108.42	15284	735	10	808
108.68	15184	736	10	810
108.68	15134	736	10.5	810
108.40	15084	736	10.5	808
108.37	15035	736	11	808
108.35	14936	736	11	808
108.31	14886	736	11	808
108.26	14788	737	11	808
108.39	14739	736	11	808
108.14	14690	737	11	808
108.09	14641	738	11	808
107.99	14495	738	11	808

% Sat	Q	Bar	Temp	Sat Date 8/13/82
107.90	14398	739	11	808
108.15	14447	739	10.5	810
108.12	14398	739	10.5	810
108.04	14398	740	10.5	810
108.04	14398	740	10.5	810
107.97	14495	740	10.5	810
108.24	14592	740	10.5	812
108.24	14592	740	10	812
108.28	14544	740	10	812
108.31	14592	740	10	812
108.31	14592	740	10	812
108.35	14495	740	10	812
108.61	14544	738	10	812
108.42	14544	739	10.5	812
108.19	14350	739	10.5	810
108.15	14302	739	10.5	810
108.19	14159	739	11	810
107.92	13921	739	11	808
107.92	13827	739	11.5	808
107.88	13687	739	11.5	808
107.58	13640	739	11.5	806
107.81	13501	740	11.5	808
107.77	13455	740	12	808
107.70	13409	740	12	808

Appendix Table 4-b-5

% Sat	Q	Bar	Temp	Sat Date 8/14/82
111.52	13409	715	12	808
107.62	13409	741	11.5	808
107.62	13455	741	12	808
107.62	13501	741	12	808
107.86	13547	741	11.5	810
107.82	13640	741	11.5	810
107.82	13827	741	11.5	810
107.82	13921	741	11.5	810
107.86	13969	741	11.5	810
108.16	14111	741	11.5	812
108.24	14159	740	11.5	812
108.24	14206	740	11.5	812
108.31	14302	740	11.5	812
108.35	14350	740	12	812
108.42	14398	739	12	812
108.50	14302	739	12	812
108.27	14254	738	12	810
108.30	14159	738	12.5	810
108.03	13874	738	12.5	808
108.03	13687	738	13	808
108.07	13640	738	13	808
107.80	13501	738	13	806
107.80	13271	738	13	806
107.80	13134	738	13	806

% Sat	Q	Bar	Temp	Sat Date 8/15/82
107.80	13180	738	13	806
107.80	13180	738	13	806
107.80	13225	738	13	806
107.82	13271	738	13	806
107.91	13409	737	13	806
107.91	13455	737	13	806
107.98	13640	737	13	806
108.02	13780	736	13	806
108.26	13874	737	13	808
108.26	13969	737	13	808
108.49	14111	737	13	810
108.49	14111	737	12.5	810
108.22	14111	737	12.5	808
108.26	14111	737	12.5	808
108.56	14111	736	12.5	810
108.56	14063	736	12.5	810
108.29	14063	736	12.5	808
108.56	13969	736	12.5	810
108.29	13921	736	13	808
108.22	13874	737	12.5	808
108.16	13827	737	12.5	808
108.14	13780	737	12.5	808
108.07	13780	738	12.5	808
108.23	13780	739	12.5	810

Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat Date 8/16/82
108.19	13687	739	12.5	810
108.15	13827	739	12.5	810
108.12	13969	739	12.5	810
108.35	14254	740	12.5	812
108.31	14398	740	12.5	812
108.55	14495	740	12.5	814
108.47	14739	741	12.5	814
108.43	14886	741	12	814
108.43	14936	741	12	814
108.40	15035	741	12	814
108.67	15035	741	12	816
108.63	15084	741	12	816
108.67	15084	741	11.5	816
108.67	15134	741	12	816
108.70	15084	741	12	816
108.67	15084	741	12	816
108.63	15134	741	12.5	816
108.59	15234	742	12.5	816
108.52	15284	742	12.5	816
108.48	15334	742	12	816
108.69	15385	743	12	818
108.66	15435	743	12	818
108.62	15435	743	12	818
108.62	15486	743	12	818

% Sat	Q	Bar	Temp	Sat Date 8/17/82
108.62	15486	743	11.5	818
108.91	15536	743	11.5	820
108.64	15536	743	11.5	818
108.89	15587	743	11.5	820
108.89	15587	743	11.5	820
108.89	15740	743	11.5	820
108.93	15740	743	11	820
108.96	15740	743	11	820
108.96	15689	743	10.5	820
108.69	15791	743	10.5	818
108.73	15791	743	10	818
109.00	15791	743	10	820
108.69	15740	743	10	818
108.86	15842	742	10.5	818
108.90	15740	741	10.5	818
108.97	15791	741	10.5	818
108.99	15791	741	10.5	818
108.72	15842	741	11	816
108.99	15740	741	11	818
108.70	15638	741	11	816
108.69	15638	741	10.5	816
108.96	15587	741	11	818
108.67	15740	741	11	816
108.65	15689	741	11	816

Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat Date 8/18/82
108.65	15638	741	11	816
108.65	15740	741	11	816
108.65	15740	741	11	816
108.92	15689	741	11	818
108.92	15740	741	11	818
108.79	15791	742	10.5	818
108.77	15791	742	10.5	818
108.77	15740	742	10.5	818
108.71	15638	743	10.5	818
108.68	15536	743	10	818
108.66	15435	743	10	818
108.62	15334	743	10	818
108.77	15234	742	10	818
108.62	15084	743	9.5	818
108.64	15035	743	9.5	818
108.62	14985	743	9.5	818
108.60	14739	743	9.5	818
108.31	14739	744	10	816
108.26	14641	744	10	816
108.24	14592	744	10	816
108.20	14544	744	10	816
108.17	14447	745	10	816
107.80	14447	747	10	816
108.06	14447	745	10	816

% Sat	Q	Bar	Temp	Sat Date 8/19/82
108.02	14116	746	10	816
108.25	14211	746	10.5	818
108.29	14245	746	10.5	818
108.18	14273	746	10	818
108.18	14230	746	10	818
108.07	14317	747	10	818
108.07	14379	747	10	818
108.30	14408	747	10	820
108.26	14490	748	9.5	820
108.26	14456	748	10	820
108.30	14515	747	10	820
108.30	14510	747	10	820
108.30	14534	747	10	820
108.30	14568	747	10	820
108.52	14485	746	10	820
108.35	14360	747	10.5	820
108.10	14273	747	10.5	818
108.10	14192	747	10.5	818
108.07	14144	747	11	818
108.03	14101	747	11	818
108.00	13898	745	11	818
107.97	13818	748	11	818
107.97	13757	748	11	818
107.90	13710	748	11	818

Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat Date 8/20/82
107.90	13594	748	11	818
107.88	13547	748	10.5	818
107.88	13594	748	10.5	818
108.11	13594	749	10.5	820
108.11	13547	749	10.5	820
108.04	13547	749	10.5	820
108.04	13640	749	10.5	820
108.00	13594	749	10	820
108.04	13640	749	10	820
108.04	13640	749	9.5	820
108.08	13733	749	10	820
108.11	13547	749	10	820
108.15	13501	748	10	820
107.92	13455	748	10	818
107.97	13363	748	10	818
107.73	13317	748	10.5	816
107.73	13271	748	11	816
107.74	13134	748	11	816
107.76	13089	747	11	816
107.74	12953	748	11	816
107.44	12819	748	11	814
107.44	12685	748	11	814
107.42	12596	748	11	814
107.42	12596	748	11	814

% Sat	Q	Bar	Temp	Sat Date 8/21/82
107.62	12552	748	11	816
107.62	12552	748	11	816
107.62	12552	748	11.5	816
107.58	12508	749	11.5	816
107.58	12552	749	11.5	816
107.58	12552	749	11.5	816
107.58	12596	749	11.5	816
107.58	12685	749	11.5	816
107.88	12641	748	11.5	818
107.65	12685	748	11.5	816
107.69	12730	748	11.5	816
107.73	12819	748	11	816
107.73	12774	748	11.5	816
108.10	12774	747	11.5	818
107.87	12819	747	11.5	816
107.91	12774	746	11.5	816
107.95	12730	746	12	816
107.71	12596	746	12	814
107.71	12552	746	12	814
107.41	12464	746	12	812
107.41	12333	746	12	812
107.41	12246	746	12	812
107.34	12160	747	12.5	812
107.28	12073	747	12	812

Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat Date 8/22/82
107.53	11860	747	12	814
107.25	11775	747	12	812
107.21	11775	748	12	812
107.17	11733	748	12	812
107.42	11733	748	12	814
107.39	11775	748	12	814
107.35	11860	748	11.5	814
107.39	12030	748	11.5	814
107.65	12030	748	11.5	816
107.65	12073	748	11.5	816
107.69	12160	748	11.5	816
107.73	12246	748	11.5	816
107.80	12290	747	11.5	816
107.87	12290	747	11.5	816
107.64	12333	746	11.5	814
107.95	12333	746	11.5	816
107.71	12333	746	11.5	814
107.75	12333	746	12	814
107.75	12203	746	12	814
107.48	12030	746	12	812
107.43	11945	746	12	812
107.43	11945	746	12	812
107.39	11733	746	12	812
107.39	11691	746	12	812

% Sat	Q	Bar	Temp	Sat Date 8/23/82
107.36	11649	747	12	812
107.05	11607	747	12	810
107.32	11523	747	11.5	812
107.32	11523	747	11.5	812
107.34	11523	747	11.5	812
107.34	11565	747	11	812
107.37	11649	746	11	812
107.37	11649	746	11	812
107.37	11691	746	11	812
107.68	11733	746	11	814
107.48	11775	746	11.5	812
107.79	11817	745	11.5	814
107.86	11945	745	11.5	814
107.93	11988	744	11.5	814
108.01	11988	744	11.5	814
107.78	12030	744	12	812
107.78	12030	744	12	812
107.81	12030	743	12	812
107.54	12030	743	12	810
107.54	11902	743	12	810
107.56	11902	743	12	810
107.56	11860	743	12	810
107.53	11775	743	12	810
107.24	11733	744	12	808

Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat Date 8/24/82
107.18	11649	744	12	808
107.45	11733	744	12.5	810
107.45	11733	744	12.5	810
107.43	11775	744	12.5	810
107.43	11988	744	12	810
107.43	11902	744	12	810
107.43	11860	744	12	810
107.70	11945	744	12	812
107.40	12030	744	12	810
107.67	12030	744	12	812
107.67	12030	744	12	812
107.67	12160	744	12	812
107.67	12160	744	12	812
107.70	12160	744	11.5	812
107.74	12116	744	12	812
107.74	12073	744	12	812
107.74	12073	744	12	812
107.74	12030	744	12	812
107.47	11988	744	12	810
107.45	11945	744	12	810
107.38	11860	744	12	810
107.36	11775	745	12	810
107.36	11649	745	12	810
107.32	11565	745	12	810

% Sat	Q	Bar	Temp	Sat Date 8/25/82
107.32	11733	745	12	810
107.32	11775	745	12	810
107.32	11649	745	12	810
107.32	11649	745	12	810
107.32	11775	745	12	810
107.36	11902	745	12	810
107.59	11902	745	12	812
107.59	12030	745	11.5	812
107.56	12116	745	11.5	812
107.56	12377	745	11.5	812
107.86	12421	745	11.5	814
107.90	12421	745	12	814
107.93	12552	744	11.5	814
107.97	12641	744	12	814
108.05	12641	744	12	814
108.06	12819	743	12	814
108.03	12953	744	12	814
108.01	12998	744	12	814
107.99	13089	744	12	814
107.99	13089	744	12	814
107.99	13089	744	12	814
107.99	12998	744	12	814
107.95	13089	744	12	814
107.95	13044	744	12	814

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat Date 8/26/82
107.95	13089	744	12	814
107.95	13089	744	12	814
107.99	13089	744	12	814
107.99	13180	744	12	814
107.99	13271	744	12	814
108.03	13363	744	11.5	814
108.03	13409	744	11.5	814
108.06	13363	743	11.5	814
108.10	13501	743	11.5	814
108.10	13640	743	11.5	814
108.21	13640	742	11	814
107.94	13687	742	11	812
108.29	13640	742	11	814
108.09	13687	741	11	812
108.20	13780	741	11	812
108.28	13733	740	11.5	812
108.35	13733	740	11.5	812
108.12	13687	739	11.5	810
108.14	13640	739	11.5	810
107.87	13594	739	11.5	808
108.12	13409	739	11.5	810
107.88	13455	739	11.5	808
108.14	13501	739	11.5	810
107.88	13455	739	12	808

% Sat	Q	Bar	Temp	Sat Date 8/27/82
107.92	13317	739	12	808
107.92	13317	739	11.5	808
107.92	13317	739	11.5	808
107.92	13409	739	11.5	808
107.92	13455	739	11	808
108.19	13594	739	11	810
108.19	13640	739	11	810
108.19	13733	739	11	810
108.19	13874	739	11	810
107.89	13921	741	10.5	810
108.30	13969	738	10.5	810
108.12	14016	739	10.5	810
108.14	14063	739	10.5	810
108.51	14159	737	10.5	810
108.62	14206	736	11	810
108.44	14206	735	11	808
108.46	14159	735	11	808
108.19	14063	735	11	806
108.23	13921	735	11	806
108.19	13827	735	11	806
80.616	13780	989	11	806
107.86	13687	736	11	804
80.194	13547	990	11	804
80.194	13455	990	11	804

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat Date 8/28/82
107.86	13225	736	10.5	804
107.86	13134	736	10.5	804
107.86	13134	736	10.5	804
107.86	13044	736	10.5	804
107.32	13089	739	10.5	804
108.08	13044	736	10.5	806
108.08	13044	736	10.5	806
108.08	13044	736	10	806
108.45	12998	733	10	806
108.45	13044	733	9.5	806
108.15	13089	735	9.5	806
108.15	12998	735	9.5	806
108.19	13044	735	9.5	806
108.23	12998	735	10	806
107.95	12953	735	10	804
107.99	12953	735	10	804
107.99	12908	735	10.5	804
107.99	12819	735	10.5	804
107.65	12685	735	11	802
107.61	12552	735	11	802
107.55	12421	736	11	802
107.52	12290	736	11	802
107.44	12160	737	11	802
107.60	12116	737	11	804

% Sat	Q	Bar	Temp	Sat Date 8/29/82
107.56	12073	738	11	804
107.53	12030	738	11	804
107.49	12030	738	11	804
107.45	12073	738	11	804
107.61	12116	739	11	806
107.58	12203	739	11	806
107.50	12333	740	10.5	806
107.50	12464	740	10.5	806
107.74	12552	740	10.5	808
107.70	12685	740	10	808
107.66	12730	741	10	808
107.93	12774	741	10	810
107.93	12819	741	10	810
107.97	12819	740	10	810
108.04	12819	740	10	810
107.81	12819	740	10	808
107.77	12774	740	10	808
107.77	12596	740	10	808
107.81	12508	740	10.5	808
107.81	12464	740	10.5	808
107.54	12290	740	10.5	806
107.61	12290	739	10.5	806
107.65	12160	739	10.5	806
107.69	12073	739	10.5	806

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat Date 8/30/82
107.49	11945	738	10.5	804
107.53	11860	738	10	804
107.56	11817	738	10	804
107.56	11775	738	10.5	804
107.56	11817	738	10	804
107.64	11775	737	10	804
107.68	11860	737	10	804
107.44	11902	737	10	802
107.79	11902	736	10	804
107.82	11945	736	10	804
107.94	12073	735	10	804
107.94	12160	735	10	804
107.72	12290	735	10	802
107.76	12333	734	10	802
107.79	12377	734	9.5	802
107.87	12421	734	10	802
107.91	12421	733	9.5	802
107.63	12464	733	9.5	800
107.67	12421	733	9.5	800
107.67	12421	733	9.5	800
107.73	12421	733	9.5	800
107.73	12333	733	9.5	800
107.47	12290	733	9.5	798
107.51	12203	732	9.5	798

% Sat	Q	Bar	Temp	Sat Date 8/31/82
107.55	12116	732	9.5	798
107.58	12030	732	9.5	798
107.31	11988	732	9.5	796
107.62	11988	732	9.5	798
107.62	12030	732	9.5	798
107.73	12116	731	9.5	798
107.73	12290	731	9.5	798
107.40	12333	733	9.5	798
107.81	12685	730	9.5	798
107.85	12819	730	9.5	798
107.85	13134	730	9.5	798
107.92	13134	730	9	798
107.96	13547	729	9	798
108.00	13594	729	9	798
108.03	13640	729	9	798
108.09	13874	728	9	798
108.09	14159	728	9	798
108.11	14398	728	9	798
108.09	14495	728	9	798
108.05	14592	729	9	798
108.03	14739	729	9	798
107.72	14739	729	9	796
107.98	14837	729	9	798
107.96	14936	729	9	798

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat Date 8/32/82
108.23	15084	729	9	800
108.23	15385	729	9	800
108.23	15486	729	9	800
108.23	15638	729	8.5	800
108.51	15842	729	8.5	802
108.39	15945	730	8.5	802
108.36	16101	730	8.5	802
108.55	16257	731	8.5	804
108.52	16414	731	8.5	804
108.48	16519	731	8.5	804
108.71	16572	732	8.5	806
108.71	16678	732	8.5	806
108.68	16731	732	8.5	806
108.97	16731	732	8.5	808
108.95	16731	732	8.5	808
108.95	16731	732	8.5	808
108.87	16731	732	8.5	808
108.86	16678	733	8.5	808
108.80	16625	733	9	808
108.72	16678	733	9	808
108.65	16625	734	9	808
108.61	16625	734	9	808
108.85	16678	734	9	810
108.81	16785	735	9	810

% Sat	Q	Bar	Temp	Sat Date 9/1/82
108.81	16838	735	9	810
109.04	16891	735	9	812
109.00	16945	735	9	812
108.99	16999	735	9	812
108.99	17269	735	9	812
109.18	17433	736	8.5	814
109.18	17707	736	8.5	814
109.45	17985	736	8.5	816
109.42	18209	736	8.5	816
109.69	18435	736	8.5	818
109.73	18549	736	8.5	818
109.74	18720	736	8.5	818
110.05	18892	735	8.5	820
109.86	18892	735	8.5	818
109.90	18835	735	8.5	818
109.90	18606	735	8.5	818
109.90	18435	735	9	818
109.88	18265	735	9	818
109.86	18097	735	9	818
109.55	17929	735	9	816
109.47	17707	736	9	816
109.43	17433	736	9	816
109.40	17433	736	9	816
109.36	17378	736	9	816

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/2/82
109.32	17269	737	9	816	
109.32	17161	737	9	816	
109.03	17053	737	9	814	
108.99	16945	737	8.5	814	
108.99	16731	737	8.5	814	
108.90	16519	738	8.5	814	
109.58	16414	733	8	814	
109.56	16205	733	8	814	
108.75	16101	739	8	814	
108.73	16101	739	8	814	
108.73	16049	739	8	814	
108.73	15945	739	8	814	
109.00	15842	739	8	816	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
108.50	15284	739	8.5	812	
108.42	15035	739	8.5	812	
108.41	14936	739	9	812	
108.58	14985	740	9	814	
108.55	14936	740	9	814	
108.24	14739	740	9	812	
108.47	14641	741	9	814	

% Sat	Q	Bar	Temp	Sat	Date 9/3/82
108.43	14495	741	9	814	
108.40	14495	741	9	814	
108.40	14398	741	8.5	814	
108.40	14350	741	8.5	814	
108.36	14398	741	8.5	814	
108.36	14495	741	8.5	814	
108.29	14544	742	8.5	814	
108.29	14641	742	8.5	814	
108.52	14788	742	8.5	816	
108.56	14837	742	8.5	816	
108.56	14837	742	8	816	
108.56	14837	742	8	816	
108.56	14886	742	8	816	
108.56	14936	742	8.5	816	
108.59	14936	742	8.5	816	
108.63	14936	741	8.5	816	
108.63	14985	741	8.5	816	
108.40	14985	741	8.5	814	
108.40	14985	741	8.5	814	
108.36	14936	741	9	814	
108.40	14936	741	9	814	
108.40	14837	741	8.5	814	
108.40	14690	741	8.5	814	
108.43	14592	741	8.5	814	

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/4/82
108.43	14788	741	8.5	814	
108.47	14788	741	8.5	814	
108.47	14690	741	8.5	814	
108.47	14690	741	8.5	814	
108.47	14641	741	8	814	
108.51	14690	740	8.5	814	
108.55	14690	740	8	814	
108.55	14641	740	8	814	
108.62	14641	740	8	814	
108.39	14641	739	8	812	
108.69	14544	739	8	814	
108.73	14641	739	8	814	
108.52	14690	739	8	812	
108.63	14641	738	8	812	
108.69	14592	737	8	812	
108.49	14544	737	8	810	
108.53	14495	737	8	810	
108.60	14495	736	8.5	810	
108.64	14447	736	8.5	810	
108.40	14398	736	8.5	808	
108.50	14350	735	8.5	808	
108.54	14302	735	8.5	808	
108.65	14254	734	8.5	808	
108.72	14111	733	8.5	808	

% Sat	Q	Bar	Temp	Sat	Date 9/5/82
108.56	14063	733	8.5	806	
108.64	14016	732	8.5	806	
108.75	14016	731	8	806	
108.63	14016	730	8	804	
108.74	14016	730	8	804	
108.58	13969	729	8	802	
108.70	13969	728	8	802	
108.89	13874	727	8	802	
108.92	13969	727	8	802	
108.72	13921	726	8	800	
108.84	13827	725	7.5	800	
108.95	13733	725	7.5	800	
109.07	13733	724	8	800	
108.91	13733	723	8	798	
109.02	13687	722	8	798	
108.90	13547	721	8	796	
109.01	13455	720	8.5	796	
108.93	13409	719	8.5	794	
109.00	13271	719	8.5	794	
109.04	13134	718	8.5	794	
108.75	13089	719	8.5	792	
108.51	12998	718	8.5	790	
108.58	12908	718	8.5	790	
108.70	12774	717	8	790	

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/6/82
108.74	12685	717	8	790	
108.38	12596	717	8	788	
108.42	12464	717	8	788	
108.38	12464	717	8	788	
108.38	12333	717	8	788	
108.38	12203	717	8	788	
108.42	12203	717	8	788	
108.42	12160	717	8	788	
108.42	12203	717	8	788	
108.42	12160	717	8.5	788	
108.42	12203	717	8.5	788	
108.14	12160	717	8.5	786	
108.14	12073	717	8.5	786	
108.14	11945	717	8.5	786	
108.14	11860	717	8.5	786	
108.10	11860	717	8.5	786	
108.03	11817	718	9	786	
107.95	11775	718	9	786	
107.87	11691	719	8.5	786	
107.80	11649	719	8.5	786	
107.68	11607	720	8.5	786	
107.87	11565	721	9	788	
107.79	11440	721	9	788	
107.73	11440	722	9	788	

% Sat	Q	Bar	Temp	Sat	Date 9/7/82
108.01	11398	722	9	790	
108.01	11398	722	9	790	
108.01	11357	722	9	790	
108.01	11357	722	9	790	
108.01	11386	722	9	790	
107.77	11427	725	8.5	792	
107.70	11469	726	8.5	792	
107.86	11469	726	8.5	794	
107.79	11427	727	9	794	
107.75	11469	727	9	794	
107.99	11548	727	9	796	
108.22	11548	728	9	798	
108.22	11674	728	9	798	
108.28	11758	727	9.5	798	
108.02	11716	727	9.5	796	
108.00	11674	727	9.5	796	
108.02	11758	727	9.5	796	
108.00	11800	727	9.5	796	
107.99	11758	727	9.5	796	
108.24	11678	727	9.5	798	
107.95	11594	728	9.5	796	
107.91	11678	728	9.5	796	
107.87	11678	728	9.5	796	
107.84	11762	728	9.5	796	

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/8/82
107.80	11762	729	9	796	
107.80	11762	729	9	796	
107.80	11716	729	9	796	
108.07	11843	729	9	798	
108.07	11843	729	9	798	
108.00	11971	729	9	798	
107.96	12056	729	9	798	
107.92	12186	730	9	798	
107.88	12229	730	9	798	
107.85	12359	730	8.5	798	
107.81	12359	730	9	798	
108.08	12491	730	8.5	800	
108.08	12619	730	8.5	800	
108.08	12841	730	8.5	800	
108.10	12931	730	8.5	800	
108.10	12976	730	8.5	800	
108.10	13111	730	8.5	800	
108.10	13248	730	8.5	800	
108.08	13294	730	8.5	800	
108.06	13432	731	8.5	800	
108.05	13570	731	8.5	800	
108.01	13617	731	8.5	800	
108.28	13757	731	8.5	802	
108.24	13851	731	8.5	802	

% Sat	Q	Bar	Temp	Sat	Date 9/9/82
108.21	13851	731	8.5	802	
108.21	13898	731	8.5	802	
108.48	14040	731	8.5	804	
108.48	14087	731	8.5	804	
108.48	14135	731	8	804	
108.44	14182	732	8	804	
108.44	14278	732	8	804	
108.44	14278	732	8	804	
108.44	14326	732	8	804	
108.44	14321	732	8	804	
108.71	14418	732	8	806	
108.75	14418	731	8	806	
108.52	14563	731	8	804	
108.59	14563	731	8.5	804	
108.67	14563	730	8.5	804	
108.71	14612	730	8.5	804	
108.71	14709	730	8.5	804	
108.67	14709	730	8.5	804	
108.67	14807	730	8.5	804	
108.63	14807	730	8.5	804	
108.59	14807	731	8	804	
108.59	14807	731	8	804	
108.55	14852	731	8	804	
108.55	14852	731	8	804	

Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/10/82
108.75	14852	731	8	806	
108.75	14852	731	8	806	
108.71	14802	732	8	806	
108.71	14802	732	8	806	
108.64	14753	732	8	806	
108.64	14753	732	8	806	
108.64	14607	732	7.5	806	
108.60	14558	732	7.5	806	
108.91	14461	732	7.5	808	
108.84	14461	733	7.5	808	
108.84	14360	733	7.5	808	
108.80	14317	733	7.5	808	
108.84	14264	733	7.5	808	
108.80	14168	733	7.5	808	
108.80	14120	733	7.5	808	
108.80	13978	733	7.5	808	
108.76	13884	733	7.5	808	
108.76	13837	733	7.5	808	
108.53	13837	733	7.5	806	
108.41	13841	734	7.5	806	
108.69	13841	734	7.5	808	
108.38	13841	734	7.5	806	
108.61	13747	734	7.5	808	
108.57	13701	734	7.5	808	

% Sat	Q	Bar	Temp	Sat	Date 9/11/82
108.57	13701	734	7.5	808	
108.57	13701	734	7.5	808	
108.61	13701	734	7.5	808	
108.57	13747	734	7	808	
108.57	13701	734	7	808	
108.30	13701	734	7	806	
108.30	13794	734	7	806	
108.34	13794	734	7	806	
108.34	13794	734	7	806	
108.31	13841	736	7	808	
108.04	13841	736	7	806	
108.11	13794	736	7	806	
108.35	13747	736	7	808	
108.35	13701	736	7	808	
108.31	13696	736	7	808	
108.27	13603	736	7	808	
108.20	13556	737	6.5	808	
108.91	13510	732	6.5	808	
109.07	13464	733	6.5	810	
109.07	13418	733	6.5	810	
108.23	13418	739	6.5	810	
108.15	13376	739	6.5	810	
108.35	13330	740	6.5	812	
108.20	13330	741	6.5	812	

Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/12/82
108.13	13515	741	6.5	812	
108.29	13422	742	6.5	814	
108.25	13381	742	6.5	814	
108.17	13330	743	6.5	814	
108.17	13381	743	6	814	
108.08	13289	743	6.5	814	
108.08	13335	743	6	814	
108.08	13381	743	6	814	
108.31	13198	744	6	816	
108.31	13243	744	6	816	
108.31	13198	744	6	816	
108.31	13152	744	6	816	
108.33	13016	743	6	816	
108.33	13016	743	6.5	816	
108.44	13062	743	6.5	816	
108.21	12881	742	6.5	814	
108.25	12926	742	6.5	814	
108.25	12926	742	6.5	814	
108.25	12926	742	6.5	814	
108.09	12971	741	6.5	812	
108.26	12971	740	6.5	812	
108.26	12926	740	6.5	812	
108.31	12926	740	6.5	812	
108.29	12881	740	6.5	812	

% Sat	Q	Bar	Temp	Sat	Date 9/13/82
108.35	12881	740	6.5	812	
108.41	12837	739	6.5	812	
108.48	12881	739	6.5	812	
108.57	13016	738	6.5	812	
108.30	13198	738	6.5	810	
108.45	13427	737	6.5	810	
108.30	13752	738	6.5	810	
108.53	14082	737	6.5	810	
108.56	14515	736	6	810	
108.64	14906	736	6	810	
108.64	15304	736	6	810	
108.87	15760	736	6	812	
109.08	16330	735	6	812	
109.19	16859	734	6	812	
109.27	17128	733	6	812	
109.25	17509	734	6.5	812	
109.17	17785	734	6.5	812	
109.08	18007	735	6.5	812	
109.22	18237	736	6.5	814	
109.13	18412	737	6.5	814	
109.27	18537	737	7	816	
109.33	18726	738	6.5	818	
109.41	18818	739	7	818	
109.54	18933	739	7	820	

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/14/82
109.54	18991	739	7	820	
109.54	19107	739	7	820	
109.81	19229	739	7	822	
109.81	19287	739	7	822	
109.81	19463	739	7	822	
109.71	19581	741	7	824	
109.65	19758	742	7	824	
109.61	19812	742	7	824	
109.79	19877	743	7	826	
109.77	19991	743	7	826	
110.04	20170	743	7	828	
110.06	20231	743	7	828	
110.10	20291	742	7	828	
110.13	20527	742	7	828	
110.21	20588	742	7	828	
110.36	20772	741	7	828	
110.15	20833	740	7	826	
110.05	21018	739	7	824	
110.07	21329	739	7	824	
110.12	21585	739	7	824	
110.36	21794	739	7	826	
110.36	22465	739	7	826	
110.63	22789	739	7	828	
110.59	23116	739	7	828	

% Sat	Q	Bar	Temp	Sat	Date 9/15/82
110.63	23847	739	7	828	
110.66	24388	739	7	828	
111.07	25215	738	7	830	
111.20	25705	737	7	830	
111.20	26489	737	7	830	
111.16	27434	737	7	830	
111.43	27656	737	7	832	
111.80	28252	736	7	834	
111.88	29238	736	7	834	
112.19	29934	736	7	836	
112.54	30090	735	7	838	
112.54	30482	733	7	836	
112.73	30958	732	7.5	836	
112.81	31037	732	8	836	
112.85	31277	731	8	836	
112.7	31599	731	8	834	
112.68	31599	731	8.5	834	
112.62	31438	731	8.5	834	
112.7	31037	731	8.5	834	
112.64	30246	731	8.5	834	
112.73	30403	730	9	834	
112.85	30561	730	9	834	
112.7	30561	729	9	832	
112.7	30561	729	9	832	

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/16/82
112.93	30799	727	9	832	
112.54	30878	730	8.5	832	
112.46	31277	730	9	832	
112.38	31599	731	8.5	832	
112.66	31761	731	8.5	834	
112.66	31680	733	8.5	836	
112.77	31923	734	8.5	838	
112.93	32167	734	8	840	
112.85	32908	735	8	840	
113.04	33157	735	8	842	
112.97	32908	736	8	842	
112.85	33241	737	8	842	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
113.29	33074	739	8.5	848	
113.25	32991	739	8.5	848	
113.48	32908	740	8.5	850	
113.41	33074	740	8.5	850	
113.60	33241	741	8.5	852	
113.56	33408	741	8.5	852	
113.25	33408	741	8.5	850	

% Sat	Q	Bar	Temp	Sat	Date 9/17/82
113.52	33241	741	8.5	852	
113.52	33241	741	8	852	
113.21	33074	741	8	850	
113.25	33157	741	8	850	
113.52	33074	741	8	852	
113.52	33074	741	7.5	852	
113.25	32908	741	7.5	850	
113.21	32908	741	7.5	850	
113.21	32660	741	7.5	850	
113.29	32495	741	7.5	850	
113.25	32495	741	7.5	850	
113.29	32331	741	7.5	850	
113.06	32167	741	7.5	848	
113.06	32004	741	7.5	848	
113.14	31842	740	7.5	848	
112.90	31761	740	7.5	846	
113.02	31599	739	7.5	846	
112.83	31357	739	7.5	844	
112.87	31277	738	7.5	844	
112.67	31117	738	7.5	842	
112.79	30958	737	7.5	842	
112.48	30561	737	7.5	840	
112.44	30325	738	7.5	840	
112.44	30246	738	7	840	

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Appendix - Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/18/82
112.44	29934	738	7.5	840	
112.17	29778	738	7	838	
112.25	29315	737	7	838	
112.29	29238	737	7	838	
112.09	28704	736	6.5	836	
112.17	28252	736	6.5	836	
111.90	28177	736	6.5	834	
111.90	27878	736	6.5	834	
111.63	27508	736	6.5	832	
111.63	27214	736	6.5	832	
111.67	27068	736	6	832	
111.39	26995	736	6	830	
111.43	26777	735	6	830	
111.51	26202	735	6.5	830	
111.31	25832	734	6.5	828	
111.41	25811	734	6.5	828	
111.25	25579	733	6.5	826	
111.29	25579	733	6.5	826	
111.02	25298	733	6.5	824	
111.02	25020	733	6.5	824	
110.67	24813	733	7	822	
110.63	24744	733	7	822	
110.59	24676	734	7	822	
110.55	24600	734	7	822	

% Sat	Q	Bar	Temp	Sat	Date 9/19/82
110.55	24532	734	7	822	
110.52	24395	734	7	822	
110.79	24327	734	7	824	
110.79	24252	734	7	824	
110.48	24185	734	7	822	
110.44	24049	735	7	822	
110.48	23982	734	6.5	822	
110.48	23914	734	7	822	
110.48	23914	734	6.5	822	
110.44	23847	735	6.5	822	
110.44	23780	735	6.5	822	
110.52	23780	734	7	822	
110.55	23780	734	6.5	822	
110.40	23780	733	6.5	820	
110.40	23847	733	7	820	
110.40	23847	733	7	820	
110.40	23847	733	7	820	
110.40	23914	733	7	820	
110.28	23982	734	7	820	
110.21	24117	734	7	820	
110.17	24252	735	7	820	
110.13	24313	735	7	820	
110.34	24388	735	7	822	
110.31	24518	736	7	822	

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/20/82
110.23	24518	736	7	822	
110.17	24586	736	7	822	
110.41	24443	737	7	824	
110.35	24307	737	7	824	
110.35	24307	737	7	824	
110.29	24171	738	6.5	824	
110.24	24171	738	6.5	824	
110.20	24103	738	6.5	824	
110.20	24029	738	6.5	824	
110.32	24029	739	6.5	826	
110.36	23962	739	6.5	826	
110.36	23901	739	6.5	826	
110.36	23901	739	6.5	826	
110.36	23968	739	6.5	826	
110.36	23968	739	7	826	
110.45	23901	738	7	826	
110.51	23901	738	7	826	
110.56	23767	738	7	826	
110.62	23975	737	7	826	
110.62	24110	737	7	826	
110.60	24178	737	7	826	
110.66	24043	737	7	826	
110.41	24043	737	7	824	
110.74	24043	736	7	826	

% Sat	Q	Bar	Temp	Sat	Date 9/21/82
110.74	24043	736	7	826	
110.74	24110	736	7	826	
110.46	24178	736	7	824	
110.46	24110	736	7	824	
110.46	24103	736	7	824	
110.79	24110	734	6.5	824	
110.83	24171	734	6.5	824	
110.87	24239	734	6.5	824	
110.87	24239	734	6.5	824	
110.79	24313	734	6.5	824	
110.71	24307	735	6.5	824	
110.54	24307	736	6.5	824	
110.54	24382	736	6.5	824	
110.12	24382	739	6.5	824	
110.12	24450	739	6.5	824	
110.46	24518	736	6.5	824	
110.46	24382	736	6.5	824	
110.43	24246	737	6.5	824	
110.35	24313	737	6.5	824	
110.31	24246	737	6.5	824	
110.51	24246	738	7	826	
110.51	24246	738	7	826	
110.47	24178	738	7	826	
110.47	24110	738	7	826	

Appendix - Table 4-6-5

% Sat	Q	Bar	Temp	Sat	Date 9/22/82
110.47	23975	738	6.5	826	
110.51	23841	738	6.5	826	
110.51	23774	738	6.5	826	
110.47	23700	738	6.5	826	
110.47	23633	738	6.5	826	
110.24	23433	738	6.5	824	
110.01	23301	739	6.5	824	
109.97	23103	740	6	824	
109.93	22907	740	6	824	
110.20	22776	740	6	826	
110.13	22776	740	6	826	
110.13	22452	740	6	826	
110.17	22329	740	6	826	
110.20	22137	740	6	826	
109.9	22073	740	6.5	824	
109.86	21946	740	6.5	824	
109.86	21756	740	6.5	824	
109.84	21566	741	6.5	824	
109.82	21441	741	6.5	824	
109.49	21254	741	6.5	822	
109.44	21068	741	6.5	822	
109.67	21006	742	6.5	824	
109.6	20882	742	6.5	824	
109.33	20698	742	6.5	822	

% Sat	Q	Bar	Temp	Sat	Date 9/23/82
109.33	20576	742	6	822	
109.33	20515	742	6	822	
109.25	20273	743	6	822	
109.25	20207	743	6	822	
109.25	20207	743	6	822	
109.21	20026	743	6	822	
109.21	20086	743	5.5	822	
109.18	19967	743	5.5	822	
109.18	19907	743	5.5	822	
109.18	19967	743	5	822	
109.18	19847	743	5	822	
108.94	19907	743	5	820	
109.29	19728	742	5	822	
109.02	19669	742	5.5	820	
109.02	19551	742	5.5	820	
109.02	19433	742	5.5	820	
108.98	19375	743	5.5	820	
108.98	19200	743	5.5	820	
108.68	19031	743	5.5	818	
108.68	18973	743	5.5	818	
108.94	18916	743	5.5	820	
108.68	18858	743	5.5	818	
108.64	18680	743	5.5	818	
108.60	18680	743	5.5	818	

Appendix - Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/24/82
108.64	18114	743	5.5	818	
108.68	18170	743	5	818	
108.71	18058	743	5	818	
108.44	17835	743	5	816	
108.44	17835	743	5	816	
108.44	17774	743	4.5	816	
108.48	17663	742	4.5	816	
108.48	17663	742	4.5	816	
108.52	17553	742	4	816	
108.56	17444	742	4	816	
108.59	17389	742	4	816	
108.43	17334	741	4	814	
108.51	17177	740	4	814	
108.58	17069	740	4.5	814	
108.39	16961	739	4	812	
108.42	16801	739	4.5	812	
108.46	16694	739	4	812	
108.46	16641	739	4.5	812	
108.23	16482	739	4.5	810	
108.23	16377	739	4.5	810	
108.27	16325	738	4.5	810	
108.27	16116	738	4.5	810	
108.27	16007	738	4.5	810	
108.03	15853	738	4.5	808	

% Sat	Q	Bar	Temp	Sat	Date 9/25/82
107.99	15699	738	4.5	808	
107.99	15699	738	4.5	808	
108.03	15597	738	4.5	808	
108.07	15496	738	4.5	808	
108.03	15440	738	4.5	808	
108.07	15491	738	4.5	808	
107.84	15390	738	4	806	
107.87	15486	737	4	806	
107.91	15385	737	4	806	
107.95	15284	737	4	806	
107.98	15284	737	4	806	
108.02	15239	736	4	806	
108.08	15189	736	4	806	
108.08	15089	736	4	806	
107.88	14990	735	4	804	
107.92	14990	735	4	804	
107.99	14891	735	4.5	804	
108.03	14891	734	4.5	804	
108.07	14793	734	4.5	804	
108.07	14646	734	4.5	804	
107.87	14549	734	4.5	802	
107.92	14452	733	4.5	802	
107.91	14355	733	4.5	802	
107.94	14398	733	5	802	

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/26/82
107.20	14398	738	5	802	
107.20	14350	738	5	802	
107.91	14302	733	5	802	
107.94	14297	733	5	802	
107.94	14249	733	5	802	
107.98	14202	733	5	802	
107.98	14197	733	5	802	
107.98	14197	733	5	802	
107.94	14197	733	5	802	
107.91	14197	733	5	802	
107.83	14245	734	5	802	
107.79	14297	734	5	802	
107.76	14293	734	5	802	
107.95	14249	735	5	804	
107.68	14149	735	5	802	
107.61	14154	735	5	802	
107.53	14106	736	5.5	802	
107.73	14106	736	5.5	804	
107.68	14154	737	5.5	804	
107.60	14011	737	5	804	
107.53	14011	738	5	804	
107.45	13964	738	5	804	
107.65	13964	739	5	806	
107.59	13964	739	5	806	

% Sat	Q	Bar	Temp	Sat	Date 9/27/82
107.48	13964	740	5.5	806	
107.43	13964	740	5.5	806	
107.64	13964	741	5.5	808	
107.57	13964	741	5.5	808	
107.57	14006	741	5.5	808	
107.50	14054	742	5.5	808	
107.40	14101	742	5.5	808	
107.40	14149	742	5.5	808	
107.54	14197	743	5.5	810	
107.49	14197	744	5.5	810	
107.43	14245	744	5	810	
107.67	14149	744	5	812	
107.67	14197	744	5	812	
107.70	14197	744	5.5	812	
107.70	14249	744	5.5	812	
107.70	14106	744	5.5	812	
107.63	14106	745	5.5	812	
107.63	14106	745	5.5	812	
107.63	14059	745	5.5	812	
107.61	14106	745	5.5	812	
107.63	14011	745	5	812	
107.61	13921	745	5	812	
107.61	13921	745	5	812	
107.61	13827	745	5	812	

Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/28/82
107.61	13733	745	5	812	
107.61	13640	745	5	812	
107.34	13594	745	5	810	
107.34	13594	745	5	810	
107.34	13547	745	5	810	
107.62	13455	743	5	810	
107.65	13317	743	4.5	810	
107.48	13271	742	4.5	808	
107.55	13225	741	4.5	808	
107.62	13134	741	4	808	
107.74	13089	740	4	808	
107.58	12998	739	4	806	
107.58	12819	739	4	806	
107.63	12774	739	4	806	
107.67	12690	739	4	806	
107.44	12645	739	4	804	
107.55	12513	738	4	804	
107.64	12421	737	4	804	
107.44	12377	737	4	802	
107.44	12377	737	4	802	
107.40	12421	737	4	802	
107.17	12464	737	4	800	
107.17	12513	737	4	800	
107.17	12513	737	4	800	

% Sat	Q	Bar	Temp	Sat	Date 9/29/82
107.17	12513	737	4	800	
107.24	12425	736	4	800	
107.26	12513	736	4	800	
107.37	12557	735	4	800	
107.37	12557	735	4	800	
107.52	12557	734	4	800	
107.32	12601	734	4	798	
107.40	12601	733	4	798	
107.47	12596	733	4	798	
107.58	12552	732	4	798	
107.66	12464	731	4	798	
107.35	12469	732	4	796	
107.65	12425	730	4	796	
107.70	12381	729	4	796	
107.49	12294	729	4	794	
107.54	12250	728	4	794	
107.56	12250	728	4	794	
107.29	12207	728	4.5	792	
107.29	12116	728	4	792	
107.29	12160	728	4	792	
107.05	12203	728	4	790	
107.05	12203	728	4	790	
107.05	12246	728	4	790	
107.05	12333	728	4	790	

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 9/30/82
107.05	12290	728	4	790	
107.09	12333	728	4	790	
107.12	12464	728	4	790	
107.12	12508	728	4	790	
107.12	12592	728	4	790	
107.12	12681	728	4	790	
107.09	12725	728	4	790	
107.05	12721	728	4	790	
107.25	12721	729	4	792	
106.90	12632	729	4	790	
107.14	12632	729	4	792	
107.10	12588	730	4	792	
107.10	12632	730	4	792	
107.37	12632	730	4	794	
107.34	12632	730	4	794	
107.03	12632	730	4	792	
106.95	12632	731	4	792	
107.19	12721	731	4	794	
107.11	12632	731	4	794	
107.08	12552	732	4	794	
107.35	12641	732	4	796	
107.27	12641	732	4	796	
107.24	12685	732	4	796	
107.16	12596	733	4	796	

% Sat	Q	Bar	Temp	Sat	Date 10/1/82
107.13	12508	733	4	796	
107.09	12464	733	4	796	
107.01	12377	734	4	796	
106.98	12377	734	4	796	
106.94	12464	734	4	796	
107.14	12464	735	4	798	
106.83	12421	735	4	796	
107.10	12377	735	4	798	
107.10	12377	735	4	798	
107.06	12333	735	4	798	
107.03	12290	736	4	798	
107.03	12290	736	4	798	
107.03	12290	736	4	798	
107.30	12073	736	3.5	800	
107.30	12116	736	3.5	800	
107.39	12160	735	4	800	
107.12	12160	735	4	798	
107.12	12160	735	4	798	
107.12	12116	735	4	798	
107.12	12073	735	4	798	
107.14	12160	735	4	798	
107.14	12160	735	3.5	798	
107.14	12160	735	3.5	798	
107.14	12246	735	3.5	798	

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 10/2/82
106.87	12160	735	4	796	
107.14	12030	735	4	798	
106.90	11945	735	4	796	
106.94	11860	734	4	796	
106.94	11902	734	4	796	
106.98	11988	734	4	796	
106.98	11817	734	4	796	
107.01	11733	734	4	796	
107.05	11817	734	4	796	
107.05	11817	734	4	796	
107.09	11860	733	4	796	
107.09	11775	733	4	796	
107.13	11733	733	4	796	
107.16	11649	733	4	796	
106.96	11649	732	4	794	
107.00	11607	732	4	794	
107.00	11565	732	4	794	
107.00	11565	732	4	794	
107.04	11565	732	4	794	
107.04	11607	732	4	794	
107.08	11607	732	4	794	
106.80	11565	732	4	792	
106.84	11565	731	4	792	
106.88	11523	731	4	792	

% Sat	Q	Bar	Temp	Sat	Date 10/3/82
106.88	11440	731	4	792	
106.88	11398	731	4	792	
106.91	11398	731	3.5	792	
106.91	11398	731	4	792	
106.91	11357	731	3.5	792	
106.95	11316	731	3.5	792	
106.71	11316	730	3.5	790	
106.71	11275	730	3.5	790	
106.71	11234	730	3.5	790	
106.71	11193	730	3.5	790	
107.03	11111	730	3.5	792	
107.06	11193	730	3.5	792	
107.06	11152	730	3.5	792	
107.10	11070	730	3.5	792	
106.86	11070	729	3.5	790	
106.94	11111	729	3.5	790	
106.94	11070	729	4	790	
106.94	11070	729	3.5	790	
106.66	11070	729	3.5	788	
106.90	11070	729	3.5	790	
106.64	10949	729	3.5	788	
106.64	10989	729	3.5	788	
106.63	10989	729	3.5	788	
106.90	11030	729	3.5	790	

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 10/4/82
106.88	11070	729	3.5	790	
106.64	10989	729	3.5	788	
106.94	10949	729	3.5	790	
106.68	10909	729	3	788	
106.68	10869	729	3	788	
106.68	10788	729	3	788	
106.68	10828	729	3	788	
106.68	10788	729	3	788	
106.68	10788	729	3	788	
106.68	10828	729	2.5	788	
106.68	10909	729	2.5	788	
106.70	10949	729	2.5	788	
106.74	10869	728	2.5	788	
106.77	10828	728	2.5	788	
106.77	10788	728	2.5	788	
106.87	10709	727	2.5	788	
106.59	10551	727	3	786	
106.57	10551	728	3	786	
106.57	10551	728	3	786	
106.57	10551	728	2.5	786	
106.59	10551	727	2.5	786	
106.61	10511	727	2.5	786	
106.65	10472	727	2.5	786	
106.69	10472	727	2.5	786	

% Sat	Q	Bar	Temp	Sat	Date 10/5/82
106.69	9971.	727	2.5	786	
106.69	9971.	727	2.5	786	
106.41	9971.	727	2.5	784	
106.41	9933.	727	2.5	784	
106.41	9933.	727	2.5	784	
106.51	9971.	724	2.5	782	
106.58	9971.	724	2.5	782	
106.62	9971.	724	2.5	782	
106.7	9971.	723	2.5	782	
106.77	9895.	723	2	782	
106.61	9858.	722	2	780	
106.68	9783.	721	2	780	
106.79	9745.	720	2	780	
106.57	9708.	720	2	778	
106.63	9745.	720	2.5	778	
106.63	9745.	720	2.5	778	
106.63	9671.	720	2.5	778	
106.59	9634.	720	2.5	778	
106.61	9634.	720	2.5	778	
106.33	9708.	720	2.5	776	
106.33	9671.	720	2.5	776	
106.33	9597.	720	2	776	
106.37	9597.	720	2	776	
106.41	9560.	719	2	776	

Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 10/6/82
106.41	9560.	719	2	776	
106.45	9560.	719	2	776	
106.48	9486.	719	1.5	776	
106.24	9413.	719	1.5	774	
106.24	9376.	719	1.5	774	
106.24	9124.	719	1.5	774	
106.20	9088.	719	1.5	774	
106.17	9124.	719	1.5	774	
106.17	9159.	719	1.5	774	
106.20	9124.	719	1	774	
106.28	9124.	718	1	774	
106.13	9124.	719	1	774	
106.13	9195.	719	1	774	
106.17	9088.	719	1.5	774	
106.15	9052.	719	1	774	
106.13	9017.	719	1.5	774	
106.09	8946.	720	1.5	774	
106.04	8911.	720	1.5	774	
105.72	8911.	720	1.5	772	
105.67	8875.	721	1.5	772	
105.63	8875.	721	1.5	772	
105.59	8840.	721	1.5	772	
105.83	8805.	721	1.5	774	
105.79	8805.	722	1	774	

% Sat	Q	Bar	Temp	Sat	Date 10/7/82
105.79	8840.	722	1	774	
105.79	8840.	722	1	774	
105.76	8840.	722	1	774	
105.72	8840.	722	1	774	
105.72	8840.	722	1	774	
105.83	8840.	721	1	774	
105.79	8840.	722	.5	774	
105.79	8805.	722	.5	774	
105.72	8840.	722	.5	774	
105.61	8805.	723	.5	774	
105.52	8805.	724	1	774	
105.40	8770.	724	1	774	
105.29	8770.	725	1	774	
105.53	8770.	725	1	776	
105.44	8805.	726	1	776	
105.64	8805.	726	1	778	
105.59	8736.	727	1	778	
105.51	8736.	727	1	778	
105.24	8736.	727	1	776	
105.48	8736.	728	1	778	
105.51	8736.	727	1	778	
105.48	8701.	728	.5	778	
105.13	8666.	728	.5	776	
105.02	8632.	729	0	776	

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 10/8/82
105.22	8666.	729	0	778	
105.15	8632.	730	0	778	
105.07	8597.	730	0	778	
105.00	8563.	731	0	778	
105.13	8597.	732	0	780	
104.82	8632.	732	0	778	
104.98	8597.	733	0	780	
104.91	8597.	733	0	780	
105.07	8597.	734	0	782	
105.04	8563.	734	0	782	
105.27	8563.	735	0	784	
105.27	8632.	735	0	784	
105.05	8632.	736	0	784	
105.34	8632.	734	0	784	
105.38	8597.	734	0	784	
105.42	8597.	734	0	784	
105.80	8563.	733	.5	786	
105.91	8494.	732	.5	786	
105.78	8494.	731	.5	784	
105.86	8528.	731	.5	784	
106.00	8528.	730	.5	784	
105.84	8528.	729	.5	782	
105.64	8528.	728	0	780	
105.71	8563.	728	0	780	

% Sat	Q	Bar	Temp	Sat	Date 10/9/82
105.79	8563.	727	0	780	
105.51	8563.	727	0	778	
105.51	8563.	727	0	778	
105.51	8563.	727	0	778	
105.48	8632.	728	0	778	
105.44	8666.	728	0	778	
105.13	8632.	728	0	776	
105.09	8666.	728	0	776	
105.09	8632.	728	0	776	
105.33	8666.	729	0	778	
105.29	8666.	729	.5	778	
105.53	8666.	729	.5	780	
105.49	8666.	729	.5	780	
105.46	8701.	730	.5	780	
105.42	8701.	730	.5	780	
105.41	8701.	744	.5	780	
105.55	8701.	743	.5	780	
105.31	8736.	731	.5	780	
105.27	8770.	731	.5	780	
105.27	8805.	731	.5	780	
105.31	8805.	731	.5	780	
105.31	8805.	731	.5	780	
105.27	8736.	731	.5	780	
105.27	8770.	731	.5	780	

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Appendix Table 4-D-5

% Sat	Q	Bar	Temp	Sat	Date 10/10/82
105.55	8840.	731	.5	782	
105.55	8875.	731	.5	782	
105.55	8911.	731	.5	782	
105.55	8946.	731	.5	782	
105.47	8946.	731	.5	782	
105.44	8911.	732	.5	782	
105.09	8875.	732	.5	780	
105.33	8875.	732	.5	782	
105.22	8875.	733	.5	782	
105.38	8875.	734	.5	784	
105.31	8840.	734	.5	784	
105.47	8805.	735	.5	786	
105.43	8736.	735	1	786	
105.40	8736.	736	1	786	

Quality data for Sloughs 8A, 9, 16B, 19, 21, and mainstem Susitna River at Gold Creek collected by ADFG. BQS 1 June, July, and September, 1981, and January and February, 1982.

Parameter	Date ^a	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
<u>Physical and Field Parameters^b</u>							
*Water Temperature °C	June	15.5	14.2	14.0	5.5	10.7	12.4
	July	11.2	10.9	9.0	9.8	11.3	10.5
	September	3.5	5.6	4.8	1.8	2.4	0.4
	January	0.5	0.5	1.5	2.0	1.5	0.0
	March	0.5	0.5	2.0	1.0	1.5	0.0
Air Temperature °C	June	21.0	20.1	---	---	23.0	---
	July	16.0	14.0	15.5	---	---	---
	September	8.0	7.5	---	3.0	---	---
	January	---	---	---	---	---	---
	March	---	---	---	---	-11.0	---
Streamflow (discharge) cfs	June	6.4	2.9	0.7	0.2	3.2	1,780.0
	July	551.0	714.0	503.0	0.0	142.0	42,500.0
	September	2.8	1.5	0.3	<0.1	0.43	8,540.0
	January	---	---	---	---	---	---
	March	---	---	---	---	---	1,520.0
*Specific Conductance (field) umho/cm	June	140	145	71	146	226	---
	July	117	124	72	127	130	119
	September	135	113	64	150	205	172
	January	193	121	59	148	221	260
	March	142	143	59	129	196	266

^aSloughs and mainstem Susitna River were sampled on 2 or 3 consecutive days in each month (except January) as follows.

	Susitna River at Gold Creek				
	8A	9	16B	19	21
June	25	24	23	23	24
July	21	21	22	22	22
September	30	30	28	29	29
January	20	20	20	20	20
March	31	30	30	30	30

^bParameters marked with an * are averages of transect point measurements (see methods).

--- indicates data not available.

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Parameter	Date	Slough 8	Slough 9	Slough 162	Slough 16	Slough 1	Susquehanna River at Gold Creek
Specific Conductance umho/cm	June	152	156	1	146	14	14
	July	118	124	1	134	11	11
	September	130	111	64	130	63	170
	January	190	12	12.3	146	1	260
	March	142	143	13.3	126	3	263
Dissolved Oxygen %	June	10.8	10.3	10.3	9.4	1	10.3
	July	10.4	10.3	10.3	10.3	1	10.3
	September	10.3	10.3	1	9.4	10.3	10.3
	January	7.0	10.3	6.3	9.4	8.3	15.3
	March	10.2	10.3	7.3	9.4	9.3	14.3
Dissolved Oxygen % saturation	June	108	101	107	77	33	101
	July	104	103	107	81	33	101
	September	91	93	91	81	33	110
	January	43	81	41	81	33	91
	March	71	71	41	81	33	91
pH	June	6.9	6.4	6.4	6.4	6.4	6.4
	July	6.4	6.4	6.4	6.4	6.4	6.4
	September	7.2	7.1	7.1	7.1	7.1	7.1
	January	6.3	6.3	6.3	6.3	6.3	6.3
	March	6.9	7.3	6.3	6.3	6.3	6.3
Alkalinity (field) mg/l CaCO ₃	June	7.4	7.3	7.3	7.3	7.3	7.3
	July	7.6	7.7	7.3	7.3	7.3	7.3
	September	7.4	6.7	6.3	7.3	7.3	7.3
	January	7.2	7.3	6.3	7.3	7.3	7.3
	March	7.2	7.1	7.3	7.3	7.3	7.3
Alkalinity (field) mg/l CaCO ₃	June	---	39	24	50	61	---
	July	41	39	24	50	47	35
	September	43	34	26	62	62	---
	January	62	34	24	39	62	82
	March	43	39	23	46	61	78

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Appendix 4-D (Continued)

Parameter	Date	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
<u>Physical and Field Parameters - Cont'd</u>							
Alkalinity (lab) mg/l CaCO ₃	June	47	33	24	52	63	45
	July	41	39	24	52	47	35
	September	42	36	26	62	61	44
	January	64	36	30	53	63	83
	March	46	42	27	50	64	82
Turbidity NTU	June	0.9	0.6	0.5	0.4	0.4	100.0
	July	130.0	130.0	43.0	2.5	150.0	170.0
	September	1.1	0.6	0.6	0.5	0.5	5.5
	January	0.4	0.5	0.5	0.3	0.5	0.7
	March	0.1	0.1	0.1	0.1	0.1	0.1
Sediments, suspended mg/l	June	1	2	1	1	5	327
	July	220	417	107	8	356	680
	September	1	1	1	2	4	44
	January	1	2	0	1	0	2
	March	7	3	6	1	6	8
Sediments, discharge suspended tons/day	June	0.02	0.02	0.0	0.0	0.04	1,570.0
	July	327.0	804.0	145.0	0.0	136.0	78,000.0
	September	0.01	0.0	0.0	0.0	0.0	1,020.0
	January	---	---	---	---	---	---
	March	---	---	---	---	---	33.0
Solids, residue at 180°C mg/l	June	88	100	51	94	137	79
	July	70	75	41	81	78	74
	September	82	69	42	95	119	101
	January	111	73	38	78	114	152
	March	92	93	42	80	124	160
Solids, sum of constituents mg/l	June	93	91	47	90	130	83
	July	61	68	43	89	68	65
	September	71	71	48	94	120	80
	January	120	76	---	92	130	165
	March	86	83	43	85	127	160

Appendix Table 4-D-6 (Continued).

Parameter	Date	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
<u>Physical and Field Parameters - Cont'd</u>							
Solids, dissolved tons/day	June	1.5	0.8	0.1	0.1	1.1	380.0
	July	104.0	145.0	55.7	0.0	29.9	8,490.0
	September	0.62	0.3	< 0.1	< 0.1	0.1	2,330.0
	January	---	---	---	---	---	---
	March	---	---	---	---	---	657.0
Solids, dissolved tons/acre-foot	June	0.12	0.14	0.07	0.13	0.19	0.11
	July	0.10	0.10	0.06	0.11	0.11	0.10
	September	0.11	0.09	0.06	0.13	0.16	0.14
	January	0.15	0.10	0.05	0.11	0.16	0.21
	March	0.13	0.13	0.06	0.11	0.17	0.22
Suspended sediment (%) less than 0.062 mm sieve diameter	June	---	---	---	---	---	70
	July	89	55	56	---	85	49
	September	---	---	---	---	---	81
	January	---	---	---	---	---	---
	March	---	---	---	---	---	---
<u>Major Constituents</u>							
Hardness mg/a CaCO_3	June	57	56	32	69	83	57
	July	48	50	30	61	54	51
	September	54	45	30	72	77	60
	January	79	47	34	67	87	120
	March	60	52	26	58	82	100
Hardness, non-carbonate mg/l CaCO_3	June	10.0	17.0	8.0	19.0	21.0	12
	July	7.0	11.0	6.0	9.0	7.0	16
	September	11.0	11.0	4.0	10.0	15.0	16
	January	17.0	13.0	10.0	14.0	25.0	33
	March	15.0	13.0	3.0	12.0	21.0	19
Bicarbonate, incremental titration mg/l CaCO_3	June	---	---	---	---	---	---
	July	---	---	---	---	---	---
	September	53	42	32	75	75	---
	January	---	---	---	---	---	---
	March	---	---	---	---	---	---

4-D-73

Appendix Table 4-D-6 (Continued).

Parameter	Date	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
<u>Major Constituents - Cont'd</u>							
Carbonate, incremental titration mg/1 CaCO ₃	June	---	---	---	---	---	---
	July	---	---	---	---	---	---
	September	0	0	0	0	0	---
	January	---	---	---	---	---	---
	March	---	---	---	---	---	---
Calcium, dissolved mg/1 Ca	June	18	18	10	23	27	19
	July	16	17	10	20	18	16
	September	17	14	9	24	25	15
	January	26	15	11	22	29	39
	March	19	17	8	19	27	33
Magnesium, dissolved mg/1 Mg	June	2.8	2.7	1.6	2.7	3.9	2.2
	July	1.9	1.9	1.3	2.6	2.1	1.7
	September	2.8	2.4	1.6	3.0	3.5	1.9
	January	3.4	2.3	1.6	3.0	3.5	4.6
	March	3.1	2.4	1.5	2.6	3.6	4.5
Sodium, dissolved mg/1 Na	June	6.8	8.2	2.5	2.5	12.0	4.2
	July	3.0	3.0	1.8	1.8	3.4	3.4
	September	6.1	5.6	2.6	3.0	11.0	7.4
	January	11.0	5.7	2.9	4.3	12.0	15.0
	March	6.2	7.2	2.1	2.2	11.0	17.0
Sodium, (%)	June	20	24	14	7	23	14
	July	12	11	11	6	12	13
	September	19	21	15	8	23	21
	January	23	20	15	12	23	22
	March	18	23	14	7	22	26
Sodium, adsorption ratio	June	0.4	0.5	0.2	0.1	0.6	0.3
	July	0.2	0.2	0.1	0.1	0.2	0.2
	September	0.4	0.4	0.2	0.2	0.5	0.4
	January	0.5	0.4	0.2	0.2	0.6	0.6
	March	0.4	0.5	0.2	0.1	0.5	0.8

4-D-74

Appendix Table 4-D-6 (Continued).

Parameter	Date	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
Nutrients - Cont'd							
Nitrogen, total mg/1 NO ₃	June	8.5	8.4	4.1	10.0	4.2	2.4
	July	3.4	3.5	3.3	9.3	2.9	2.3
	September	7.4	7.3	2.9	9.0	4.9	2.7
	January	5.8	7.9	2.9	7.0	4.2	1.9
	March	5.7	6.4	3.3	7.6	4.3	1.9
Nitrogen, dissolved mg/1 N	June	1.8	1.6	1.0	2.0	1.0	0.5
	July	---	0.7	---	2.2	0.7	0.6
	September	1.5	1.7	0.6	1.9	1.0	0.6
	January	1.3	1.6	0.6	1.2	0.9	0.4
	March	1.2	1.2	0.6	1.5	0.8	0.4
Nitrogen, total organic mg/1 N	June	0.53	0.82	0.50	0.88	0.37	0.34
	July	0.40	0.54	0.31	0.45	0.44	0.10
	September	---	0.41	0.17	0.44	0.18	0.28
	January	---	---	0.18	0.50	---	0.18
	March	0.24	0.41	---	0.43	0.30	0.21
Nitrogen, dissolved organic mg/1 N	June	0.45	0.51	0.55	0.62	0.49	0.34
	July	0.44	0.48	---	0.41	0.43	0.21
	September	0.36	0.44	0.10	0.49	0.19	0.34
	January	0.22	0.39	0.15	0.14	0.20	0.15
	March	0.20	0.16	---	0.22	---	0.19
Nitrogen, dissolved ammonia mg/1 N	June	0.07	0.11	0.10	0.10	0.09	0.08
	July	0.10	0.13	0.13	0.32	0.14	0.24
	September	0.15	0.14	0.16	0.13	0.11	0.09
	January	0.15	0.08	0.09	0.08	0.08	0.09
	March	0.07	0.07	<0.06	0.08	<0.06	0.07
Nitrogen, dissolved ammonia mg/1 NH ₄	June	0.09	0.14	0.13	0.13	0.12	0.10
	July	0.13	0.17	0.17	0.41	0.18	0.31
	September	0.19	0.18	0.21	0.17	0.14	0.12
	January	0.19	0.10	0.12	0.10	0.10	0.12
	March	0.09	0.09	0.08	0.10	0.08	0.09

4-D-75

Appendix Table 4-D-6 (Continued).

Parameter	Date	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
<u>Major Constituents - Cont'd</u>							
Potassium, dissolved mg/1 K	June	1.5	1.4	0.9	1.0	2.1	2.0
	July	1.6	1.6	0.9	1.6	1.9	1.6
	September	1.1	0.9	0.9	1.1	2.1	1.5
	January	2.1	1.0	0.8	1.2	2.0	2.1
	March	1.3	1.1	0.8	1.1	2.1	2.2
Chloride, dissolved mg/1 Cl	June	9.1	16.0	1.3	0.9	20.0	5.6
	July	2.9	2.9	0.9	0.6	3.7	12.0
	September	7.7	6.9	1.5	0.9	17.0	11.0
	January	14.0	9.6	1.1	3.5	20.0	24.0
	March	10.0	13.0	1.2	1.1	17.0	27.0
Sulfate, dissolved mg/1 SO ₄	June	11.0	9.0	4.7	13.0	14.0	17.0
	July	1.0	11.0	6.0	14.0	3.1	1.0
	September	6.0	5.0	5.0	9.0	10.0	< 5.0
	January	11.0	5.0	5.0	11.0	12.0	17.0
	March	8.0	6.0	0.0	13.0	13.0	13.0
Fluoride, dissolved mg/1 F	June	0.0	0.1	0.1	0.1	0.1	0.0
	July	0.0	0.0	0.1	0.0	0.0	0.1
	September	0.1	0.1	0.1	0.1	0.1	0.1
	January	0.1	0.1	0.1	0.1	0.1	0.1
	March	0.1	0.1	0.1	0.1	0.1	0.1
Silica, dissolved mg/1 SiO ₂	June	9.7	11.0	10.0	10.0	11.0	5.5
	July	6.6	6.6	6.2	10.0	6.6	6.2
	September	0.0	10.0	10.0	10.0	11.0	6.1
	January	10.0	11.0	11.0	10.0	11.0	12.0
	March	11.0	11.0	11.0	10.0	12.0	13.0
<u>Nutrients</u>							
Nitrogen, total mg/1 N	June	1.9	1.9	0.9	2.3	0.94	0.5
	July	0.8	0.8	0.8	2.1	0.2	0.5
	September	1.7	1.7	0.7	2.0	1.1	0.6
	January	1.3	1.6	0.7	1.6	1.0	0.4
	March	1.3	1.4	0.7	1.7	1.0	0.4

4-D-76

Appendix Table 4-D-6 (Continued).

Parameter	Date	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
Nutrients - Cont'd							
Nitrogen, total ammonia mg/1 N	June	0.08	0.10	0.09	0.07	0.10	0.14
	July	0.15	0.18	0.15	0.26	0.13	0.33
	September	---	0.15	0.16	0.19	0.20	0.17
	January	<0.07	<0.07	0.12	0.09	<0.07	0.08
	March	0.12	0.08	<0.06	0.08	0.06	0.06
Nitrogen, ammonia + dissolved organics mg/1 N	June	0.52	0.62	0.65	0.72	0.58	0.42
	July	0.54	0.61	---	0.73	0.57	0.45
	September	0.51	0.58	0.26	0.62	0.30	0.43
	January	0.37	0.47	0.24	0.22	0.28	0.24
	March	0.27	0.23	0.24	0.30	0.22	0.26
Nitrogen, ammonia + total suspended organics mg/1 N	June	0.09	0.30	0.00	0.23	0.00	0.06
	July	0.01	0.11	---	0.00	0.00	0.00
	September	0.07	0.00	0.07	0.01	0.08	0.02
	January	0.05	0.21	0.06	0.37	0.03	0.02
	March	0.09	0.26	0.14	0.21	0.14	0.01
Nitrogen, ammonia + total organics mg/1 N	June	0.61	0.92	0.59	0.95	0.47	0.48
	July	0.55	0.72	0.46	0.71	0.57	0.43
	September	0.58	0.56	0.33	0.63	0.38	0.45
	January	0.42	0.68	0.30	0.59	0.31	0.26
	March	0.36	0.49	0.38	0.51	0.36	0.27
Nitrogen, total nitrate and nitrate mg/1 N	June	1.3	1.0	0.33	1.3	0.5	0.1
	July	0.2	0.1	0.3	1.4	0.1	0.1
	September	1.1	1.1	0.3	1.4	0.7	0.2
	January	0.9	1.1	0.4	1.0	0.6	0.2
	March	0.9	1.0	0.4	1.2	0.6	0.2
Nitrogen, dissolved nitrate and nitrite mg/1 N	June	1.3	1.0	0.4	1.3	0.4	0.1
	July	---	0.1	0.3	1.5	0.1	0.1
	September	1.0	1.1	0.3	1.3	0.7	0.2
	January	0.9	1.1	0.4	1.0	0.6	0.2
	March	0.9	1.0	0.4	1.2	0.6	0.2

4-D-77

Appendix Table 4-D-6 (Continued).

Parameter	Date	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
<u>Nutrients - Cont'd</u>							
Phosphorus, total mg/1 P	June	0.05	0.01	0.01	0.01	<0.01	0.12
	July	0.27	0.48	0.14	0.01	0.38	0.02
	September	< 0.01	<0.01	<0.01	<0.01	<0.01	0.02
	January	< 0.01	<0.01	<0.01	0.02	0.01	0.01
	March	0.01	0.01	0.01	0.01	0.01	0.01
Phosphorus, total mg/1 P ₀₄	June	0.2	< 0.1	<0.1	< 0.1	<0.1	0.4
	July	0.8	1.5	0.4	< 0.1	1.2	0.1
	September	---	---	---	---	---	0.1
	January	---	---	---	0.1	<0.1	0.1
	March	< 0.1	< 0.1	<0.1	< 0.1	<0.1	---
Phosphorus, dissolved mg/1 P	June	0.03	0.01	0.01	0.01	<0.01	0.02
	July	0.01	<0.01	< 0.01	<0.01	<0.01	< 0.01
	September	0.01	<0.01	< 0.01	<0.01	<0.01	0.01
	January	< 0.01	<0.01	<0.01	0.02	0.04	0.01
	March	< 0.01	<0.01	< 0.01	<0.01	<0.01	0.01
Carbon, dissolved organic mg/1 C	June	1.9	2.1	1.4	1.3	2.0	2.8
	July	13.0	9.0	3.3	6.2	6.0	18.0
	September	1.5	1.7	1.9	2.2	1.1	---
	January	1.4	1.3	0.5	0.7	0.5	---
	March	1.4	0.7	0.7	1.4	1.1	1.6
Carbon, total suspended organics mg/1 C	June	---	0.2	---	0.2	0.2	0.9
	July	0.2	0.5	0.0	0.0	0.3	---
	September	0.1	0.1	0.1	0.1	0.1	---
	January	0.0	0.0	0.0	0.0	0.0	---
	March	0.0	0.0	0.0	0.1	0.1	0.1
<u>Trace Metals</u>							
Arsenic, total ug/1 As	June	1	1	1	2	2	6
	July	2	5	4	1	5	7
	September	2	1	1	2	2	---
	January	2	2	1	2	2	---
	March	1	1	2	1	2	2

4-D-7B

Appendix Table 4-D-6 (Continued).

Parameter	Date	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
Trace Metals - Cont'd							
Arsenic, total suspended ug/1 As	June	0	0	0	1	1	5
	July	0	3	2	0	3	5
	September	1	0	0	1	1	---
	January	1	1	0	1	1	---
	March	---	0	1	0	1	0
Arsenic, dissolved ug/1 As	June	2	1	1	1	1	1
	July	2	2	2	1	2	2
	September	1	1	1	1	1	---
	January	1	1	1	1	1	---
	March	< 1	1	1	1	1	2
Barium, total recoverable ug/1 Ba	June	0	0	0	0	100	200
	July	200	200	100	100	300	300
	September	100	200	100	100	100	---
	January	100	100	<100	100	100	---
	March	< 100	< 100	< 100	< 100	< 100	100
Barium, suspended recoverable ug/1 Ba	June	0	0	0	0	100	200
	July	200	200	70	50	300	300
	September	100	200	100	100	0	---
	January	0	---	---	---	0	---
	March	---	---	---	---	---	40
Barium, dissolved ug/1 Ba	June	90	0	0	0	0	0
	July	40	40	30	50	40	0
	September	0	0	0	0	100	---
	January	100	< 100	< 100	< 100	100	---
	March	29	27	14	29	47	60
Cadmium, total recoverable ug/1 Cd	June	0	0	2	0	1	0
	July	0	0	0	1	0	5
	September	0	0	0	0	1	---
	January	< 1	< 1	< 1	< 1	< 1	---
	March	< 1	< 1	< 1	< 1	< 1	< 1

4-D-79

Appendix Table 4-D-6 (Continued).

Parameter	Date	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
Trace Metals - Cont'd							
Cadmium, suspended recoverable ug/l Co	June	---	0	2	0	0	---
	July	---	---	---	---	---	4
	September	0	0	0	0	1	---
	January	---	---	---	---	---	---
	March	---	---	---	---	---	---
Cadmium, dissolved ug/l Cd	June	1	0	0	0	5	< 1
	July	< 1	< 1	< 1	< 1	< 1	1
	September	0	0	1	0	0	---
	January	< 1	1	1	1	< 1	---
	March	< 3	< 3	< 3	< 3	< 3	< 3
Chromium, total recoverable ug/l Cr	June	0	10	0	0	0	40
	July	30	30	20	20	40	30
	September	0	10	10	10	10	---
	January	10	< 1	10	< 10	< 10	---
	March	10	< 1	10	10	< 10	10
Chromium, suspended recoverable ug/l Cr	June	0	10	0	0	0	---
	July	20	20	10	10	30	40
	September	0	10	10	10	10	20
	January	---	---	---	---	---	---
	March	---	---	---	---	---	---
Chromium, dissolved ug/l Cr	June	10	0	0	0	0	0
	July	10	10	10	10	10	10
	September	0	0	0	0	0	---
	January	< 10	1	< 10	< 10	< 10	---
	March	< 10	< 3	< 10	< 10	< 10	< 10
Cobalt, total recoverable ug/l Co	June	2	0	0	0	2	8
	July	5	6	2	0	7	11
	September	0	0	0	0	1	---
	January	2	1	1	1	< 1	---
	March	1	1	2	2	1	1

4-D-80

Appendix Table 4-D-6 (Continued).

Parameter	Date	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
Trace Metals - Cont'd							
Cobalt, suspended recoverable ug/1 Co	June	---	0	0	0	1	---
	July	---	---	---	---	---	11
	September	0	0	0	0	1	---
	January	0	0	0	---	---	---
	March	---	---	---	---	---	0
Cobalt, dissolved ug/1 Co	June	< 3	0	0	0	1	< 3
	July	< 3	< 3	< 3	< 3	< 3	0
	September	0	0	0	0	0	---
	January	2	2	1	< 1	2	---
	March	< 1	< 1	< 1	< 1	< 1	1
Copper, total recoverable ug/1 Cu	June	3	2	4	2	2	31
	July	20	23	10	3	23	190
	September	6	4	5	4	4	---
	January	4	2	1	2	1	---
	March	2	1	2	8	6	2
Copper, suspended recoverable ug/1 Cu	June	1	1	1	0	0	27
	July	12	20	4	0	0	190
	September	5	3	3	2	18	---
	January	3	0	0	0	3	---
	March	1	0	1	7	0	1
Copper, dissolved ug/1 Cu	June	2	1	3	2	2	4
	July	8	3	6	7	5	5
	September	1	1	2	2	1	---
	January	1	2	2	2	1	---
	March	1	1	1	1	1	1
Iron, total recoverable ug/1 Fe	June	20	40	50	40	60	15,000
	July	13,000	16,000	5,800	220	18,000	19,000
	September	20	90	280	260	100	---
	January	20	140	20	10	10	---
	March	10	30	40	30	10	40

4-D-81

Appendix Table 4-D-6 (Continued).

Parameter	Date	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
Trace Metals - Cont'd							
Iron, suspended recoverable ug/l Fe	June	10	0	0	0	40	15,000
	July	13,000	16,000	5,700	140	18,000	19,000
	September	10	60	260	250	90	---
	January	0	80	0	0	0	---
	March	0	20	30	20	0	30
Iron, dissolved ug/l Fe	June	10	60	50	60	20	90
	July	48	110	52	79	97	120
	September	10	30	20	10	10	---
	January	40	60	20	30	20	---
	March	12	14	9	15	11	15
Lead, total recoverable ug/l Pb	June	0	5	3	3	15	18
	July	3	3	3	3	2	47
	September	4	1	1	2	4	---
	January	2	1	<1	1	<1	---
	March	<1	1	5	6	9	3
Lead, suspended recoverable ug/l Pb	June	0	5	3	3	15	18
	July	0	1	3	2	0	47
	September	2	0	0	0	0	---
	January	1	0	---	0	---	---
	March	---	---	4	---	---	0
Lead, dissolved ug/l Pb	June	0	0	0	0	0	0
	July	3	2	0	1	5	0
	September	2	3	4	3	5	---
	January	1	2	1	1	1	---
	March	1	<1	1	<1	<1	3
Manganese, total recoverable ug/l Mn	June	10	10	10	0	0	250
	July	230	290	100	20	300	320
	September	0	0	10	10	0	---
	January	10	20	10	10	20	---
	March	10	10	<10	10	<10	10

4-D-82

Appendix Table 4-D-6 (Continued).

Parameter	Date	Slough 8A	Slough 9	Slough 16B	Slough 19	Slough 21	Susitna River at Gold Creek
Trace Metals - Cont'd							
Manganese, suspended recoverable ug/l Mn	June	0	10	10	0	0	250
	July	220	280	90	10	290	310
	September	0	0	10	0	0	---
	January	0	10	---	0	10	---
	March	6	5	---	6	---	7
Manganese, dissolved ug/l Mn	June	10.0	0.0	0.0	0.0	0	4
	July	8.0	10.0	7.0	9.0	8	10
	September	0.0	0.0	0.0	10.0	0	---
	January	10.0	< 0.1	< 10.0	< 10.0	10	---
	March	4.0	< 0.1	3.0	4.0	3	3
Mercury, total recoverable ug/l Hg	June	0.1	0.1	0.1	0.1	0.2	0.4
	July	0.1	0.1	0.1	0.0	0.2	0.3
	September	0.1	0.0	0.0	0.0	0.0	---
	January	< 0.1	< 0.1	< 0.1	< 0.1	0.1	---
	March	0.1	0.1	0.1	0.1	0.1	0.1
Mercury, suspended recoverable ug/l Hg	June	0.1	0.1	0.1	0.1	0.2	0.4
	July	0.0	0.1	0.1	0.0	0.2	0.1
	September	0.1	0.0	0.0	0.0	0.0	---
	January	---	---	---	---	---	---
	March	---	---	---	---	---	---
Mercury, dissolved ug/l Hg	June	0.0	0.0	0.0	0.0	0.0	0.0
	July	0.1	0.0	0.1	0.0	0.0	0.2
	September	0.0	0.0	0.0	0.0	0.0	---
	January	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	---
	March	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel, total recoverable ug/l Ni	June	3	2	2	1	6	23
	July	14	18	6	2	18	22
	September	1	0	7	3	4	36
	January	1	2	< 1	< 1	< 1	---
	March	1	< 1	2	2	1	2

4-D-83

Appendix Table 4-D-6 (Continued).

<u>Parameter</u>	<u>Date</u>	<u>Slough 8A</u>	<u>Slough 9</u>	<u>Slough 16B</u>	<u>Slough 19</u>	<u>Slough 21</u>	<u>Susitna River at Gold Creek</u>
<u>Trace Metals - Cont'd</u>							
Nickel, suspended recoverable ug/l Ni	June	2	2	1	0	1	23
	July	12	18	6	0	17	29
	September	1	0	7	3	4	29
	January	---	1	---	---	---	---
	March	0	---	1	1	0	1
Nickel, dissolved ug/l Ni	June	1	0	1	1	5	0
	July	2	0	0	3	1	<1
	September	0	0	0	0	0	7
	January	<1	1	<1	<1	<1	---
	March	2	<1	1	1	1	1
Selenium, total ug/l Se	June	0	0	0	1	1	<1
	July	0	0	0	0	0	0
	September	0	0	0	0	0	1
	January	<1	<1	<1	1	1	---
	March	1	<1	<1	<1	<1	<1
Selenium, total suspended ug/l Se	June	0	0	0	0	1	0
	July	0	0	0	0	0	0
	September	0	0	0	0	0	0
	January	---	---	---	---	---	---
	March	---	---	---	---	---	---
Selenium, dissolved ug/l Se	June	0	0	0	1	0	0
	July	1	0	0	1	0	0
	September	0	0	0	1	1	---
	January	<1	<1	<1	<1	<1	---
	March	<1	<1	<1	1	1	<1
Silver, total recoverable ug/l Ag	June	0	0	1	0	0	0
	July	0	0	0	1	0	0
	September	0	0	0	0	0	---
	January	<1	<1	<1	<1	<1	---
	March	<1	<1	<1	<1	<1	<1

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Appendix Table 4-D-6 (Continued).

<u>Parameter</u>	<u>Date</u>	<u>Slough 8A</u>	<u>Slough 9</u>	<u>Slough 16B</u>	<u>Slough 19</u>	<u>Slough 21</u>	<u>Susitna River at Gold Creek</u>
<u>Trace Metals - Cont'd</u>							
Silver, suspended recoverable ug/1 Ag	June	0	0	1	0	0	0
	July	0	0	0	1	0	0
	September	0	0	0	0	0	---
	January	---	---	---	---	---	---
	March	---	---	---	---	---	---
Silver, dissolved ug/1 Ag	June	0	0	0	0	0	0
	July	0	0	0	0	0	0
	September	0	0	0	0	0	---
	January	<1	<1	<1	1	<1	---
	March	<1	<1	1	<1	<1	1
Zinc, total recoverable ug/1 Zn	June	20	40	10	10	10	60
	July	80	60	20	10	60	120
	September	20	30	30	10	20	---
	January	20	10	20	10	10	---
	March	10	10	40	30	20	10
Zinc, suspended recoverable ug/1 Zn	June	10	30	0	0	10	50
	July	80	30	10	0	40	110
	September	10	10	0	10	0	---
	January	10	0	10	0	0	---
	March	0	---	---	20	---	---
Zinc, dissolved ug/1 Zn	June	7	10	10	10	0	6
	July	4	35	10	10	17	14
	September	10	20	30	0	20	5
	January	10	20	10	10	10	---
	March	<12	<12	<12	12	<12	<12

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Appendix Table 4-D-7. Temperature (°C), specific conductance (umhos/cm), and depth (ft) collected at specified locations in Slough 8A, October 5, 1982.

<u>Location^a</u>	<u>Depth</u>	<u>Temperature</u>			<u>Specific Conductance</u>
		<u>Surface</u>	<u>Intra-gravel</u>	<u>Substrate/Water^b</u>	
Transect 1L	-	-	-	2.9	101
Transect 2L	-	-	-	3.0	98
Transect 3L	-	-	-	3.9	136
Transect 4L	-	-	-	3.4	112
Transect 5L	-	-	-	3.2	107
Transect 6L	-	-	-	4.2	131
Transect 7L	-	-	-	3.8	137
Transect 8L	-	-	-	3.3	114
Transect 9L	-	-	-	2.4	116
Transect 10L	-	-	-	2.7	104
Transect 11L	-	-	-	3.9	147
Transect 1M	-	-	-	2.8	89
Transect 2M	-	-	-	2.8	89
Transect 3M	-	-	-	3.4	108
Transect 4M	-	-	-	2.7	91
Transect 5M	-	-	-	2.6	86
Transect 6M	-	-	-	2.5	88
Transect 7M	-	-	-	2.5	86
Transect 8M	-	-	-	2.4	84
Transect 9M	-	-	-	2.1	85
Transect 10M	-	-	-	2.2	85
Transect 11M	-	-	-	2.2	86
Transect 1R	-	-	-	2.8	90
Transect 2R	-	-	-	2.7	88
Transect 3R	-	-	-	2.8	83
Transect 4R	-	-	-	2.8	83
Transect 5R	-	-	-	3.1	80
Transect 6R	-	-	-	3.2	83
Transect 7R	-	-	-	3.1	89
Transect 8R	-	-	-	3.0	62
Transect 9R	-	-	-	2.8	56
Transect 10R	-	-	-	3.2	44
Transect 11R	-	-	-	3.3	57
Pool L	-	-	-	4.2	152
Pool M	-	-	-	4.4	133
Pool R	-	-	-	4.1	132
Channel L	-	-	-	2.6	88
Channel M	-	-	-	2.2	85
Channel R	-	-	-	2.4	84

Appendix Table 4-D-7 (Continued).

<u>Location^a</u>	<u>Depth</u>	<u>Temperature</u>			<u>Specific Conductance</u>
		<u>Surface</u>	<u>Intra-gravel</u>	<u>Substrate/Water^b</u>	
Side Channel	-	3.4	-	-	218
Side Channel	-	3.1	-	-	115
Spawning A	-	3.4	4.1	-	133
Spawning A	-	2.5	3.9	-	123
Spawning B	-	2.6	3.1	-	110
Spawning B	-	2.4	2.5	-	110
Spawning B	-	2.1	2.1	-	112
Spawning C	-	2.9	4.9	-	117
Spawning C	-	2.7	4.6	-	111
Spawning C	-	2.7	4.4	-	113

^aRefer to Figure ____ for schematic drawing of Slough 8A.

^bTemperature readings obtained at substrate/water interface.

Appendix Table 4-D-8. Temperature (°C), specific conductance (umhos/cm), and depth (ft) collected at specified locations in Slough 9, October 4 and 5, 1982.

Location ^a	Depth	Temperature			Specific Conductance
		Surface	Intra-gravel	Substrate/ Water ^b	
Pool A	0.10	3.9	4.1	-	229
Pool A	0.10	3.9	4.5	-	230
Pool A	0.10	3.1	4.6	-	233
Pool A	0.10	2.7	4.0	-	194
Pool A	0.10	2.7	3.9	-	202
Pool A	0.10	2.7	3.8	-	200
Upwelling A	0.10	2.9	3.9	-	---
Upwelling A	0.10	3.9	3.9	-	---
Upwelling A	0.10	3.5	3.9	-	---
Upwelling A	0.10	3.2	4.2	-	---
Upwelling A	0.10	4.7	4.7	-	---
Upwelling A	0.10	3.3	3.8	-	---
Upwelling A	0.10	3.7	3.6	-	---
Upwelling A	0.10	2.0	4.3	-	---
Upwelling A	0.20	1.8	4.0	-	---
Upwelling A	0.20	2.0	3.7	-	---
Transect B1	--	-	-	-	78
Transect B2	--	-	-	-	93
Transect B3	--	-	-	-	99
Transect B4	--	-	-	-	103
Transect B5	--	-	-	-	198
Transect A1	--	-	-	-	72
Transect A2	--	-	-	-	96
Transect A3	--	-	-	-	99
Transect A4	--	-	-	-	103
Transect A5	--	-	-	-	149
Transect C1	--	-	-	-	65
Transect C2	--	-	-	-	68
Transect C3	--	-	-	-	76
Transect C4	--	-	-	-	75
Transect C5	--	-	-	-	74
Transect C1'	--	-	-	-	78
Transect C2'	--	-	-	-	81
Transect C3'	--	-	-	-	87
Transect C4'	--	-	-	-	84
Transect C5'	--	-	-	-	81
Transect 1-2:L	--	3.1	2.9	3.0	101
Transect 1-2:L	--	3.1	3.2	3.2	99

Appendix Table 4-D-8 (Continued).

Location ^a	Depth	Temperature			Specific Conductance
		Surface	Intra-gravel	Substrate/ Water ^b	
Transect 1-2:L	-	3.2	2.8	3.0	103
Transect 1-2:L	-	3.2	2.7	3.0	98
Transect 1-2:L	-	3.1	3.0	3.1	103
Transect 1-2:L	-	3.0	2.5	2.6	108
Transect 1-2:L'	-	-	2.8	2.9	115
Transect 1-2:L'	-	-	3.2	3.4	111
Transect 1-2:L'	-	-	2.8	3.8	114
Transect 1-2:L'	-	-	2.9	3.6	113
Transect 1-2:L'	-	-	3.3	3.9	117
Transect 1-2:L'	-	-	3.6	3.6	118
Transect 5-6:01L	-	1.5	-	-	140
Transect 5-6:02L	-	1.8	-	-	136
Transect 5-6:03L	-	1.7	-	-	138
Transect 5-6:04L	-	1.8	-	-	132
Transect 5-6:05L	-	1.9	-	-	136
Transect 5-6:06L	-	1.9	-	-	134
Transect 5-6:07L	-	1.9	-	-	132
Transect 5-6:08L	-	1.8	-	-	122
Transect 5-6:09L	-	1.9	-	-	121
Transect 5-6:10L	-	2.2	-	-	132
Transect 5-6:01M	-	1.6	-	-	92
Transect 5-6:02M	-	1.6	-	-	92
Transect 5-6:03M	-	1.6	-	-	90
Transect 5-6:04M	-	1.6	-	-	91
Transect 5-6:05M	-	1.6	-	-	95
Transect 5-6:06M	-	1.6	-	-	89
Transect 5-6:07M	-	1.6	-	-	94
Transect 5-6:08M	-	1.6	-	-	90
Transect 5-6:09M	-	1.6	-	-	102
Transect 5-6:10M	-	1.6	-	-	89
Transect 5-6:01R	-	1.4	-	-	88
Transect 5-6:02R	-	1.5	-	-	90
Transect 5-6:03R	-	1.5	-	-	89
Transect 5-6:04R	-	1.4	-	-	90
Transect 5-6:05R	-	1.3	-	-	90
Transect 5-6:06R	-	1.2	-	-	90
Transect 5-6:07R	-	1.3	-	-	89
Transect 5-6:08R	-	1.5	-	-	88
Transect 5-6:09R	-	1.5	-	-	87
Transect 5-6:10R	-	1.5	-	-	88

Appendix Table 4-D-8 (Continued).

<u>Location^a</u>	<u>Depth</u>	<u>Temperature</u>			<u>Specific Conductance</u>
		<u>Surface</u>	<u>Intra-gravel</u>	<u>Substrate/Water^b</u>	
Transect 6-7 L	-	-	-	-	131
Transect 7 L	-	-	-	-	142
Transect 7-8 L	-	-	-	-	136
Transect 8 L	-	-	-	-	128
Transect 8-9 L	-	-	-	-	122
Transect 9 L	-	-	-	-	131
Transect 9-10L	-	-	-	-	132
Transect 10L	-	-	-	-	133
Mid-slough	-	3.2	-	-	153
Tributary B	-	2.2	-	-	70
Tributary B'	-	2.3	-	-	69
Tributary B''	-	1.8	-	-	39
Pool C	-	3.0	-	-	137
Pool C	-	3.2	-	-	121
Pool C	-	3.0	-	-	124
Pool C	-	2.4	-	-	119

^aRefer to Figure ____ for schematic drawing of Slough 9.

^bTemperature readings obtained at substrate/water interface.

Appendix Table 4-D-9. Temperature (°C), specific conductance (umhos/cm), and depth (ft) collected at specified locations in Slough 9B, October 4, 1982.

<u>Location</u>	<u>Depth</u>	<u>Temperature</u>			<u>Specific Conductance</u>
		<u>Surface</u>	<u>Intra-gravel</u>	<u>Substrate/ Water^a</u>	
Mouth	1.95	3.1	3.4	3.6	---
Mouth	1.86	1.5	3.9	3.9	---
Mouth	2.20	1.7	3.6	3.6	---
Mouth	2.40	3.2	3.7	4.0	---
Mouth	2.35	2.9	3.8	4.0	---
Mid-slough	1.70	2.5	4.3	4.4	---
Mid-slough	1.20	3.2	3.9	3.9	---
Mid-slough	1.40	2.9	3.6	3.6	---
Mid-slough	1.20	2.9	3.7	3.7	---
Mid-slough	1.25	2.9	3.8	3.7	---
Upwelling B	0.25	4.3	3.6	3.7	---
Upwelling B	0.35	4.4	3.7	3.8	---
Upwelling B	0.60	4.0	3.7	3.7	---
Upwelling B	0.50	4.3	3.7	3.7	---
Upwelling B	0.60	4.0	3.8	3.8	---
Upwelling B	0.40	4.3	4.0	4.0	---
Upwelling B	0.10	3.9	3.9	3.9	---

^aTemperature readings obtained at substrate/water interface.

Appendix Table 4-D-10. Temperature ($^{\circ}\text{C}$), specific conductance ($\mu\text{mhos/cm}$), and depth (ft) collected at specified locations in Slough 11, October 3, 1982.

Location		Depth	Temperature			Specific Conductance
			Surface	Intra-gravel	Substrate/ Water ^a	
At mouth by staff gage	LB	0.10	5.6	5.7	5.6	---
	M	0.10	5.6	5.5	5.5	---
	RB	0.10	5.6	5.6	5.6	---
Adjacent to redd C03	LB	1.65	5.5	5.9	5.8	---
	M	1.50	5.3	4.6	5.1	---
	RB	0.40	5.3	4.2	4.9	---
R & M tag line (upwelling)	LB	0.40	5.4	4.9	5.2	---
	M	0.75	5.0	4.4	4.6	---
	RB	0.40	4.2	3.9	4.1	---
Adjacent to redd C09	LB	1.76	4.7	3.7	3.8	---
	M	1.95	4.7	3.9	4.3	---
	RB	0.90	4.6	4.0	4.3	---
Above deep hole	LB	1.00	5.2	4.4	4.4	---
	M	2.85	5.1	4.5	4.5	---
	RB	0.85	5.3	4.9	5.2	---
Upper pool; old redd	LB	0.95	5.3	4.2	4.4	---
	M	2.10	5.2	4.1	4.2	---
	RB	0.75	5.3	5.1	5.6	---

^aTemperature readings obtained at substrate/water interface.

Appendix Table 4-D-11. Temperature (°C), specific conductance (umhos/cm), and depth (ft) collected at specified locations in Slough 21, October 1-2, 1982.

Location	Depth	Temperature		Substrate/ Water ^a	Specific Conductance
		Surface	Intra- gravel		
Transect 4-5:01L	-	-	3.6	-	---
Transect 4-5:02L	-	-	3.2	-	---
Transect 4-5:03L	-	-	3.4	-	---
Transect 4-5:04L	-	-	3.5	-	---
Transect 4-5:05L	-	-	3.3	-	---
Transect 4-5:06L	-	-	3.3	-	---
Transect 4-5:01R	-	-	3.1	-	---
Transect 4-5:02R	-	-	3.1	-	---
Transect 4-5:03R	-	-	3.1	-	---
Transect 4-5:04R	-	-	3.0	-	---
Transect 4-5:05R	-	-	3.0	-	---
Transect 4-5:06R	-	-	3.0	-	---
Upwelling L	-	-	3.1	-	---
Upwelling L	-	-	3.2	-	---
Upwelling R	-	-	2.9	-	---
Upwelling R	-	-	2.9	-	---
Upwelling R	-	-	3.3	-	---
Upwelling R	-	-	3.4	-	---

^aTemperature readings obtained at substrate/water interface.

Appendix Table 4-D-12. Surface and intragravel temperatures (°C) and related data (ft) collected along study transects in Slough 8A, October 5, 1982.

Transect	Distance ^a	Depth	Temperature			Comments
			Surface	Intragravel	Substrate/Water ^b	
3	10.0	0.82	3.7	3.8	-	Gravel
3	26.0	1.10	3.4	3.8	-	Gravel
3	42.0	0.95	3.3	3.8	-	Rubble/gravel
3	58.0	0.70	2.7	3.7	-	Rubble
3	74.0	0.55	2.7	4.2	-	Rubble/gravel
3	82.0	0.40	2.8	4.7	-	Rubble/gravel
4	42.0	0.15	3.2	3.2	-	Rubble
4	58.0	1.70	2.6	2.8	-	Rubble/gravel
4	74.0	1.70	2.7	3.3	-	Cobble/rubble
4	84.0	0.70	2.7	3.4	-	Rubble/gravel
7	30.0	0.20	4.1	3.4	-	Rubble
7	46.0	0.44	2.5	4.0	-	Cobble
7	62.0	0.60	2.4	3.5	-	Rubble/gravel
7	78.0	0.20	2.9	4.3	-	Gravel/cobble
7	94.0	0.20	3.2	4.4	-	Rubble/cobble
9	40.0	0.15	0.9	1.5	-	Gravel
9	56.0	0.55	2.1	2.0	-	Cobble
9	72.0	0.45	2.0	1.9	-	Cobble
9	88.0	0.70	2.2	2.1	-	Cobble
9	114.0	0.20	2.7	2.7	-	Cobble

^aDistance (ft) from left bank head pin (facing upstream).

^bTemperature readings obtained at the substrate/water interface.

Appendix Table 4-D-13. Surface and intragravel temperatures (°C) and related data (ft) collected along study transects in Slough 9, October 4-5, 1982.

Transect	Distance ^a	Depth	Temperature			Comments
			Surface	Intragravel	Substrate/Water ^b	
2	28.0	0.20	2.1	2.8	-	----
2	44.0	0.40	1.5	2.7	-	----
2	60.0	0.70	1.5	2.5	-	----
2	76.0	0.30	1.6	3.2	-	Silt
4	50.0	0.10	3.4	3.3	-	Pool
4	66.0	0.05	4.2	4.2	-	Silt
4	82.0	0.15	1.6	3.7	-	Riffle
4	98.0	0.20	1.4	2.7	-	Riffle
4	114.0	0.20	1.3	1.9	-	Riffle
4	130.0	0.10	1.7	2.4	-	Riffle
6	100.0	0.10	2.1	3.4	-	Silt
6	116.0	0.35	1.7	3.0	-	Gravel
6	132.0	1.05	1.5	2.7	-	Rubble
6	148.0	0.25	1.4	3.3	-	Rubble
8	66.0	1.20	1.7	3.8	-	Silt
8	82.0	2.10	1.6	3.0	-	Silt
8	98.0	1.90	1.5	2.7	-	Silt

^aDistance (ft) from left bank head pin (facing upstream).

^bTemperature readings obtained at the substrate/water interface.

Appendix Table 4-D-14. Surface and intragravel temperatures (°C) and related data (ft) collected along study transects in Slough 21, October 1-2, 1982.

Transect	Distance ^a	Depth	Temperature			Comments
			Surface	Intragravel	Substrate/Water ^b	
3	25.2	0.02	4.1	3.3	4.1	----
3	30.0	0.44	4.0	3.1	4.0	----
3	33.5	--	-	3.1	-	Upwelling
3	34.0	0.78	3.9	3.2	3.9	----
3	42.0	0.62	3.8	3.1	3.6	----
3	46.0	1.08	3.8	2.9	3.7	Upwelling
3	50.0	0.70	3.8	3.1	3.5	----
3	52.6	--	-	3.0	-	Upwelling
3	54.0	1.20	3.8	3.0	3.8	----
3	58.0	1.06	3.8	3.1	3.8	----
3	62.0	1.02	3.7	3.2	3.7	----
3	64.0	--	-	2.9	-	Upwelling/redd
3	66.0	0.84	3.7	3.0	3.8	----
3	70.0	1.00	3.8	3.0	3.8	----
3	74.0	0.92	3.8	3.2	3.8	----
3	78.0	0.76	3.9	2.9	3.8	----
3	82.0	0.98	3.8	3.1	3.8	----
3	86.0	0.86	3.8	3.0	3.8	Upwelling
3	89.0	--	-	2.9	-	Upwelling
3	90.0	0.50	3.8	2.9	3.8	Upwelling
3	94.0	0.05	4.1	3.4	4.1	Upwelling
4	56.0	0.01	4.7	3.3	4.7	----
4	60.0	0.20	4.2	3.2	4.2	----
4	64.0	0.34	3.9	3.1	4.0	----
4	68.0	0.74	3.9	3.1	3.9	----
4	72.0	1.00	3.8	3.1	3.8	----
4	76.0	1.20	3.8	3.1	3.8	----
4	80.0	1.66	3.8	2.9	3.8	----
4	84.0	2.30	3.8	2.9	3.8	----
4	88.0	2.22	3.8	3.0	3.8	----
4	92.0	0.64	3.8	3.9	-	----
4	96.0	0.30	3.8	3.1	3.6	----
4	98.0	0.02	4.1	3.5	4.1	----
5	73.5	--	-	3.2	-	----
5	78.0	0.46	3.4	3.3	3.4	----
5	82.0	0.66	3.5	3.1	3.5	----
5	86.0	0.60	3.5	3.0	3.5	----
5	90.0	0.48	3.5	3.0	3.5	----
5	94.0	0.68	3.5	3.0	3.5	----
5	98.0	0.54	3.5	3.0	3.5	----
5	106.0	0.20	3.6	3.0	3.6	----
5	110.0	0.46	3.6	3.0	3.6	----

Appendix Table 4-D-14 (Continued).

Transect	Distance ^a	Depth	Temperature			Comments
			Surface	Intragravel	Substrate/Water ^b	
5	114.0	0.42	3.6	3.1	3.6	----
5	117.2	--	-	3.1	-	----
8	8.0	0.48	3.8	4.2	4.0	----
8	12.0	0.80	3.9	4.1	4.0	----
8	16.0	0.94	4.0	4.1	4.1	----
8	20.0	0.94	4.0	4.1	4.1	----
8	24.0	0.90	4.0	4.2	4.2	----
8	28.0	1.00	4.1	4.2	4.3	----
8	32.0	1.24	4.0	3.9	4.0	----
8	36.0	1.60	4.1	3.9	4.1	----
8	40.0	1.60	4.1	3.8	4.1	----
8	44.0	1.48	4.0	3.7	4.0	----
8	48.0	1.42	4.0	3.9	4.2	----
8	52.0	1.78	4.0	3.7	3.8	----
8	56.0	2.00	3.9	3.3	3.6	----
8	60.0	2.10	3.9	3.3	3.6	----
8	64.0	1.96	3.7	3.3	3.4	----
8	68.0	1.90	3.7	3.3	3.6	----
8	72.0	1.72	3.7	3.3	3.7	----
8	76.0	1.52	3.8	3.2	3.6	----
8	80.0	1.36	3.7	3.2	3.8	----
8	84.0	1.62	3.7	3.3	3.8	----
8	88.0	1.56	3.7	3.3	3.9	----
8	92.0	1.40	3.8	3.2	3.7	----
8	96.0	0.94	3.8	3.4	4.0	----
8	100.0	1.10	3.8	3.2	3.4	----
8	104.0	0.50	3.8	3.6	4.1	----
8	108.0	0.98	3.8	3.5	3.9	----
8	112.0	1.22	3.8	3.3	3.7	----
8	116.0	1.50	3.7	3.5	3.7	----
8	120.0	0.26	3.9	3.9	3.9	----

^aDistance from left bank head pin (facing upstream).

^bTemperature readings obtained at the substrate/water interface.

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