

APPENDIX B

Incubation Habitat:

Data collected within standpipes and
at adjacent surface water locations.

Appendix B consists of raw data (Appendix Tables B-5 to B-8) and corresponding summary tables (Appendix Tables B-1 to B-4). Summary tables precede the raw data tables in this Appendix for ease of reference. These data were collected by ADF&G personnel during two sampling periods (April 15-18 and April 29-May 2) in spring, 1983. In the summary tables, sampling periods are referred to as "first" and "second", respectively.

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Intragravel and corresponding surface
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Appendix Table B-1 Summary of intragravel and corresponding surface water quality data collected along the left bank of specific sites in sloughs 8A, 9, 11 and 21 during early (April 15-18) and late (April 29-May 2) sampling periods in spring, 1983.

Slough	Site	Sampling Period	Slough Bank	Variable	Intragravel Water					Surface Water				
					Min	Mean	Max	SD	N	Min	Mean	Max	SD	N
Slough 8A	A	Early	Left	Dissolved Oxygen	4.0	4.3	4.6	0.2	10	7.4	9.5	10.5	1.0	10
	A	Late	Left	Dissolved Oxygen	4.0	4.4	4.6	0.2	10	10.5	11.1	11.3	0.3	10
	A	Early	Left	Water Temperature	2.0	2.3	2.5	0.2	10	2.0	2.4	3.0	0.384	10
	A	Late	Left	Water Temperature	3.0	3.6	5.8	0.8	10	4.2	4.6	5.0	0.245	10
	A	Late	Left	Specific Conductance	236	254	258	6	10	178	183	188	3.0	10
	A	Early	Left	pH	7.2		7.3	--	10	7.1		7.3	--	10
	A	Late	Left	pH	6.4		6.6	--	5	6.4		6.8	--	5
Slough 9	B	Early	Left	Dissolved Oxygen	5.5	6.2	6.8	0.4	10	9.0	9.5	10.0	0.3	10
	B	Late	Left	Dissolved Oxygen	5.3	6.0	6.6	0.5	10	10.4	10.7	10.9	0.1	10
	C	Late	Left	Dissolved Oxygen	1.3	3.3	6.4	27	3	8.0	8.1	8.2	0.1	3
	B	Early	Left	Water Temperature	3.0	3.9	4.9	0.6	10	5.0	5.2	5.4	0.129	10
	B	Late	Left	Water Temperature	3.5	4.0	4.5	0.3	10	6.0	6.3	6.5	0.204	10
	C	Late	Left	Water Temperature	4.0	4.1	4.2	0.1	3	5.2	5.6	6.2	0.513	3
	B	Late	Left	Specific Conductance	201	217	236	15	10	153	157	163	3.0	10
	C	Late	Left	Specific Conductance	218	242	257	21	3	192	196	198	3.0	3
	B	Early	Left	pH	6.5		7.0	--	10	6.5		7.0	--	10
Slough 11	B	Late	Left	pH	6.2		6.4	--	5	5.9		6.3	--	5
	A	Early	Left	Dissolved Oxygen	7.4	7.9	8.4	0.3	10	11.3	11.5	11.6	0.1	10
	A	Late	Left	Dissolved Oxygen	6.7	7.1	7.5	0.3	10	10.9	11.1	11.2	0.1	10
	B	Early	Left	Dissolved Oxygen	6.2	9.0	10.5	1.1	10	9.8	10.2	11.0	6.4	10
	B	Late	Left	Dissolved Oxygen	8.1	8.9	9.2	0.3	10	10.8	11.1	11.3	0.2	10
	A	Early	Left	Water Temperature	2.5	2.8	3.0	0.1	10	3.0	3.1	3.2	0.103	10
	A	Late	Left	Water Temperature	3.5	4.7	7.2	1.0	10	7.5	7.8	8.2	0.271	10
	B	Early	Left	Water Temperature	2.0	2.1	2.2	0.1	10	2.0	2.0	2.0	0.000	10
	B	Late	Left	Water Temperature	3.5	4.0	4.5	0.4	10	6.0	6.1	6.2	0.097	10
	A	Late	Left	Specific Conductance	245	260	268	6	10	241	245	247	2	10
Slough 21	B	Early	Left	Specific Conductance	258	268	271	4	8	198	262	285	25	9
	A	Early	Left	pH	7.1		7.3	--	10	7.1		7.2	--	10
	A	Early	Left	Dissolved Oxygen	2.3	6.1	6.9	1.4	10	6.2	8.5	9.4	1.1	10
	A	Late	Left	Dissolved Oxygen	6.7	7.0	7.4	0.2	9	7.3	9.2	10.2	1.1	9
Slough 21	A	Early	Left	Water Temperature	2.5	3.0	3.5	0.3	10	2.5	4.5	5.5	1.047	10
	A	Late	Left	Water Temperature	2.5	2.9	4.0	0.5	9	2.5	4.8	6.8	1.571	9
	A	Late	Left	Specific Conductance	236	242	248	4	9	245	251	262	5	9
	A	Early	Left	pH	6.6		7.1	--	10	6.6		7.2	--	10
	A	Late	Left	pH	6.6		6.8	--	5	6.6		6.8	--	5

Appendix Table B-2 Summary of intragravel and corresponding surface water quality data collected along the right bank of specific sites in sloughs 8A, 9, 11 and 21 during early (April 15-18) and late (April 29-May 2) sampling periods in spring, 1983.

Slough	Site	Sampling Period	Slough Bank	Variable	Intragravel Water					Surface Water				
					Min	Mean	Max	SD	N	Min	Mean	Max	SD	N
Slough 8A	A	Early	Right	Dissolved Oxygen	4.2	5.0	9.2	1.5	10	10.2	11.1	11.6	0.4	10
	A	Late	Right	Dissolved Oxygen	4.4	4.9	7.9	1.1	10	11.3	11.4	11.6	0.1	10
	A	Early	Right	Water Temperature	0.4	1.8	2.0	0.5	10	0.3	0.5	1.8	0.478	10
	A	Late	Right	Water Temperature	2.2	2.9	3.2	0.3	10	2.0	3.7	4.5	0.696	10
	A	Late	Right	Specific Conductance	215	246	255	11	10	164	179	184	6	10
	A	Early	Right	pH	7.2		7.3	--	10	7.1		7.3	--	10
	A	Late	Right	pH	6.7		6.8	--	5	6.6		6.8	--	5
Slough 9	A	Early	Right	Dissolved Oxygen	3.7	4.9	6.7	0.9	10	9.3	9.6	9.8	0.2	10
	A	Late	Right	Dissolved Oxygen	7.1	8.8	10.8	1.3	10	10.9	11.0	11.0	0.1	10
	A	Early	Right	Water Temperature	4.1	4.3	5.2	0.4	10	5.1	5.3	5.3	0.070	10
	A	Late	Right	Water Temperature	3.5	4.0	5.0	0.5	10	5.8	6.0	6.2	0.133	10
	A	Late	Right	Specific Conductance	128	156	186	19	10	146	153	156	3	10
	A	Early	Right	pH	6.8		7.1		10	6.8		7.0	--	10
	A	Late	Right	pH	6.2		6.6		5	6.3		6.8	--	5
Slough 11	B	Early	Right	Dissolved Oxygen	9.5	10.0	10.8	0.4	10	9.8	10.3	10.6	0.2	10
	B	Late	Right	Dissolved Oxygen	9.4	9.8	10.4	0.3	10	10.3	10.8	11.0	0.2	10
	C	Early	Right	Dissolved Oxygen	1.3	4.9	11.2	4.5	4	11.0	11.6	12.4	0.6	4
	C	Late	Right	Dissolved Oxygen	1.1	4.3	10.2	4.1	4	10.5	10.6	10.8	0.1	4
	B	Early	Right	Water Temperature	1.8	2.1	2.2	0.1	10	1.8	2.0	2.2	0.094	10
	B	Late	Right	Water Temperature	3.5	4.2	4.8	0.4	10	5.2	5.7	6.2	0.357	10
	C	Early	Right	Water Temperature	2.2	2.4	2.5	0.1	4	1.8	1.9	2.0	0.100	4
	C	Late	Right	Water Temperature	4.0	4.7	5.2	0.6	4	5.2	5.4	5.5	0.173	4
	B	Early	Right	Specific Conductance	267	273	280	5	10	267	269	271	2	10
	C	Late	Right	Specific Conductance	159	191	234	35	4	232	239	245	5	4
	B	Early	Right	pH	6.8		6.8	--	1	6.3		6.3	--	1
	C	Early	Right	pH	6.2		6.4	--	4	6.3		6.4	--	4
Slough 21	A	Early	Right	Dissolved Oxygen	5.0	7.6	8.8	1.1	10	9.5	9.8	10.0	0.2	10
	A	Late	Right	Dissolved Oxygen	7.3	7.7	8.4	0.4	10	10.3	10.5	10.6	0.1	10
	A	Early	Right	Water Temperature	4.0	4.4	5.0	0.3	10	5.2	5.2	5.2	0.000	10
	A	Late	Right	Water Temperature	3.8	4.1	4.5	0.3	10	6.8	7.1	7.5	0.207	10
	A	Late	Right	Specific Conductance	174	201	216	16	10	238	243	248	3	10
	A	Early	Right	pH	6.9		7.1	--	10	6.7		7.2	--	10
	A	Late	Right	pH	6.8		6.8	--	5	6.7		6.9	--	5

Appendix Table B-3 Summary of intragravel and corresponding surface water quality data collected at specific sites in sloughs 8A, 9, 11 and 21 during early (April 15-18) and late (April 29-May 2) sampling periods in spring, 1983.

Slough	Site	Sampling Period	Variable	Intragravel Water					Surface Water				
				Min	Mean	Max	SD	N	Min	Mean	Max	SD	N
Slough 8A	A	Early	Dissolved Oxygen	4.0	4.6	9.2	1.1	20	7.4	10.3	11.6	1.1	20
	A	Late	Dissolved Oxygen	4.0	4.6	7.9	0.8	20	10.5	11.2	11.6	0.2	20
	A	Early	Water Temperature	0.4	2.0	2.5	0.5	20	0.3	1.4	3.0	1.0	20
	A	Late	Water Temperature	2.2	3.2	5.8	0.7	20	2.0	4.1	5.0	0.7	20
	A	Late	Specific Conductance	215	250	258	10	20	164	181	188	5	20
	A	Early	pH	7.2		7.3	--	20	7.1		7.3	--	20
	A	Late	pH	6.4		6.8	--	10	6.4		6.8	--	10
Slough 9	A	Early	Dissolved Oxygen	3.7	4.9	6.7	0.9	10	9.3	9.6	9.8	0.2	10
	A	Late	Dissolved Oxygen	7.1	8.8	10.8	1.3	10	10.9	11.0	11.0	0.1	10
	B	Early	Dissolved Oxygen	5.5	6.2	6.8	0.4	10	9.0	9.5	10.0	0.3	10
	B	Late	Dissolved Oxygen	5.3	6.0	6.6	0.5	10	10.4	10.7	10.9	0.1	10
	C	Late	Dissolved Oxygen	1.3	3.3	6.4	2.7	3	8.0	8.1	8.2	0.1	3
	A	Early	Water Temperature	4.1	4.3	5.2	0.4	10	5.1	5.3	5.3	0.1	10
	A	Late	Water Temperature	3.5	4.0	5.0	0.5	10	5.8	6.0	6.2	0.1	10
	B	Early	Water Temperature	3.0	3.9	4.9	0.6	10	5.0	5.2	5.4	0.1	10
	B	Late	Water Temperature	3.5	4.0	4.5	0.3	10	6.0	6.3	6.5	0.2	10
	C	Late	Water Temperature	4.0	4.1	4.2	0.1	3	5.2	5.6	6.2	0.5	3
	A	Late	Specific Conductance	128	156	186	19	10	146	153	156	3	10
	B	Late	Specific Conductance	201	217	236	15	10	153	157	163	3	10
	C	Late	Specific Conductance	218	242	257	21	3	192	196	198	3	3
	A	Early	pH	6.8		7.1	--	10	6.8		7.0	--	10
	A	Late	pH	6.2		6.6	--	5	6.3		6.8	--	5
	B	Early	pH	6.5		7.0	--	10	6.5		7.0	--	10
	B	Late	pH	6.2		6.4	--	5	5.9		6.3	--	5
Slough 11	A	Early	Dissolved Oxygen	7.4	7.9	8.4	0.3	10	11.3	11.5	11.6	0.1	10
	A	Late	Dissolved Oxygen	6.7	7.1	7.5	0.3	10	10.9	11.1	11.2	0.1	10
	B	Early	Dissolved Oxygen	6.2	9.5	10.8	1.0	20	9.8	10.3	11.0	0.3	20
	B	Late	Dissolved Oxygen	8.1	9.3	10.4	0.6	20	10.3	10.9	11.3	0.2	20
	C	Early	Dissolved Oxygen	1.3	4.9	11.2	4.5	4	11.0	11.6	12.4	0.6	4
	C	Late	Dissolved Oxygen	1.1	4.3	10.2	4.1	4	10.5	10.6	10.8	0.1	4
	A	Early	Water Temperature	2.5	2.8	3.0	0.1	10	3.0	3.1	3.2	0.1	10
	A	Late	Water Temperature	3.5	4.7	7.2	1.0	10	7.5	7.8	8.2	0.3	10
	B	Early	Water Temperature	1.8	2.1	2.2	0.1	20	1.8	2.0	2.2	0.1	20
	B	Late	Water Temperature	3.5	4.1	4.8	0.4	20	5.2	5.9	6.2	0.3	20
	C	Early	Water Temperature	2.2	2.4	2.5	0.1	4	1.8	1.9	2.0	0.1	4
	C	Late	Water Temperature	4.0	4.7	5.2	0.6	4	5.2	5.4	5.5	0.2	4
	A	Late	Specific Conductance	245	260	268	6	10	241	245	247	2	10
	B	Early	Specific Conductance	258	270	280	5	18	198	265	285	17	19
	C	Late	Specific Conductance	159	191	234	35	4	232	239	245	5	4
	A	Early	pH	7.1		7.3	--	10	7.1		7.2	--	10
	B	Early	pH	6.8		6.8	--	1	6.3		6.3	--	1
	C	Early	pH	6.2		6.4	--	4	6.3		5.4	--	4

Appendix Table B-3 (Continued)

Slough	Site	Sampling Period	Variable	Intragravel Water					Surface Water				
				Min	Mean	Max	SD	N	Min	Mean	Max	SD	N
Slough 21	A	Early	Dissolved Oxygen	2.3	6.9	8.8	1.4	20	6.2	9.1	10.0	1.0	20
	A	Late	Dissolved Oxygen	6.7	7.4	8.4	0.5	19	7.3	9.9	10.6	1.0	19
	A	Early	Water Temperature	2.5	3.7	5.0	0.8	20	2.5	4.8	5.5	0.8	20
	A	Late	Water Temperature	2.5	3.5	4.5	0.7	19	2.5	6.0	7.5	1.6	19
	A	Late	Specific Conductance	174	221	248	24	19	238	247	262	6	19
	A	Early	pH	6.6		7.1	--	20	6.6		7.2	--	20
	A	Late	pH	6.6		6.8	--	10	6.6		6.9	--	10

Appendix Table B-4 Summary of intragravel and corresponding surface water quality data collected in sloughs 8A, 9, 11 and 21 during early (April 15-18) and late (April 29-May 2) sampling periods in spring, 1983.

Slough	Sampling Period	Variable	Intragravel Water					Surface Water				
			Min	Mean	Max	SD	N	Min	Mean	Max	SD	N
Slough 8A	Early	Dissolved Oxygen	4.0	4.6	9.2	1.1	20	7.4	10.3	11.6	1.1	20
	Late	Dissolved Oxygen	4.0	4.6	7.9	0.8	20	10.5	11.2	11.6	0.2	20
	Early	Water Temperature	0.4	2.0	2.5	0.5	20	0.3	1.4	3.0	1.0	20
	Late	Water Temperature	2.2	3.2	5.8	0.7	20	2.0	4.1	5.0	0.7	20
	Late	Specific Conductance	215	250	258	10	20	164	181	188	5	20
	Early	pH	7.2		7.3	--	20	7.1		7.3	--	20
	Late	pH	6.4		6.8	--	10	6.4		6.8	--	10
Slough 9	Early	Dissolved Oxygen	3.7	5.6	6.8	0.9	20	9.0	9.6	10.0	0.2	20
	Late	Dissolved Oxygen	1.3	6.9	10.8	2.3	23	8.0	10.5	11.0	1.0	23
	Early	Water Temperature	3.0	4.1	5.2	0.5	20	5.0	5.2	5.4	0.1	20
	Late	Water Temperature	3.5	4.0	5.0	0.4	23	5.2	6.1	6.5	0.3	23
	Late	Specific Conductance	128	194	257	39	23	146	160	198	14	23
	Early	pH	6.5		7.1	--	20	6.5		7.0	--	20
	Late	pH	6.2		6.6	--	10	5.9		6.8	--	10
Slough 11	Early	Dissolved Oxygen	1.3	8.5	11.2	2.2	34	9.8	10.8	12.4	0.7	34
	Late	Dissolved Oxygen	1.1	5.1	10.4	2.2	34	10.3	11.0	11.3	0.2	34
	Early	Water Temperature	1.8	2.3	3.0	0.4	34	1.8	2.3	3.2	0.5	34
	Late	Water Temperature	3.5	4.3	7.2	0.7	34	5.2	6.4	8.2	1.0	34
	Early	Specific Conductance	258	270	280	5	18	198	265	285	17	19
	Late	Specific Conductance	159	240	268	87	14	232	243	247	4	14
	Early	pH	6.2		7.3	--	15	6.3		7.2	--	15
Slough 21	Early	Dissolved Oxygen	2.3	6.9	8.8	1.4	20	6.2	9.1	10.0	1.0	20
	Late	Dissolved Oxygen	6.7	7.4	8.4	8.5	19	7.3	9.9	10.6	1.0	19
	Early	Water Temperature	2.5	3.7	5.0	0.8	20	2.5	4.8	5.5	0.8	20
	Late	Water Temperature	2.5	3.5	4.5	0.7	19	2.5	6.0	7.5	1.6	19
	Late	Specific Conductance	174	221	248	24	19	238	247	262	6	19
	Early	pH	6.6		7.1	--	20	6.6		7.2	--	20
	Late	pH	6.6		6.8	--	10	6.6		6.9	--	10

Appendix Table B-5. Intragravel and corresponding surface water quality measurements collected in Slough 8A (RM 125.9, Geographic Code S30N03W30BCD) of the Susitna River during two sampling periods (April 15-18 and April 29-May 2) in spring, 1983.

SITE	STANDPIPE NUMBER	SAMPLING DATE	SLOUGH BANK	INTRAGRAVEL				SURFACE WATER			
				WATER pH	D.O. TEMP(C)	SPEC.COND. (mg/l)	(umhos/cm)	WATER pH	D.O. TEMP(C)	SPEC.COND. (mg/l)	(umhos/cm)
A	01	830417	LEFT	7.3	2.0	4.4	---	7.3	2.0	10.4	---
A	02	830417	LEFT	7.2	2.0	4.2	---	7.3	2.2	9.2	---
A	03	830417	LEFT	7.2	2.2	4.3	---	7.3	2.0	10.5	---
A	04	830417	LEFT	7.2	2.2	4.5	---	7.2	2.5	7.4	---
A	05	830417	LEFT	7.2	2.5	4.6	---	7.3	2.5	9.5	---
A	06	830417	LEFT	7.2	2.5	4.4	---	7.3	2.2	10.4	---
A	07	830417	LEFT	7.2	2.5	4.2	---	7.2	2.2	9.5	---
A	08	830417	LEFT	7.2	2.5	4.3	---	7.3	3.0	8.4	---
A	09	830417	LEFT	7.2	2.5	4.3	---	7.2	3.0	9.4	---
A	10	830417	LEFT	7.2	2.5	4.0	---	7.1	2.0	10.2	---
A	01	830417	RIGHT	7.2	.4	9.2	---	7.3	.3	11.3	---
A	02	830417	RIGHT	7.2	1.8	4.5	---	7.2	.3	11.4	---
A	03	830417	RIGHT	7.3	1.8	4.8	---	7.3	.3	11.3	---
A	04	830417	RIGHT	7.2	2.0	4.4	---	7.2	.3	11.4	---
A	05	830417	RIGHT	7.2	1.8	4.5	---	7.2	.3	11.2	---
A	06	830417	RIGHT	7.2	2.0	4.8	---	7.2	.3	11.6	---
A	07	830417	RIGHT	7.2	1.8	4.6	---	7.2	.3	11.4	---
A	08	830417	RIGHT	7.2	2.0	4.2	---	7.1	.8	10.8	---
A	09	830417	RIGHT	7.2	2.0	4.4	---	7.1	.5	10.2	---
A	10	830417	RIGHT	7.2	2.0	4.4	---	7.2	1.8	10.6	---
A	01	830501	LEFT	6.4	5.8	4.3	236	6.4	5.0	10.5	178
A	02	830501	LEFT	6.4	3.8	4.6	255	6.5	5.0	11.0	181
A	03	830501	LEFT	6.4	3.8	4.3	252	6.6	4.5	11.2	181
A	04	830501	LEFT	6.5	3.2	4.3	257	6.8	4.5	10.9	188
A	05	830501	LEFT	6.6	3.2	4.4	257	6.8	4.5	11.3	184
A	06	830501	LEFT	---	3.2	4.4	257	---	4.5	11.3	184
A	07	830501	LEFT	---	3.0	4.3	258	---	4.5	11.3	181
A	08	830501	LEFT	---	3.2	4.5	257	---	4.5	11.3	184
A	09	830501	LEFT	---	3.2	4.4	257	---	4.5	11.2	184
A	10	830501	LEFT	---	3.2	4.0	257	---	4.2	11.2	186
A	01	830501	RIGHT	6.7	2.2	7.9	215	6.6	2.0	11.3	164
A	02	830501	RIGHT	6.8	2.8	4.6	249	6.8	3.5	11.3	183
A	03	830501	RIGHT	6.7	2.8	4.6	249	6.8	3.5	11.3	183
A	04	830501	RIGHT	6.8	2.8	4.5	249	6.6	3.8	11.4	181
A	05	830501	RIGHT	6.8	3.0	4.7	248	6.7	3.8	11.3	181
A	06	830501	RIGHT	---	2.8	4.5	249	---	3.2	11.3	184
A	07	830501	RIGHT	---	3.2	4.6	246	---	3.8	11.4	181
A	08	830501	RIGHT	---	3.0	4.4	251	---	4.2	11.5	179
A	09	830501	RIGHT	---	3.2	4.6	250	---	4.2	11.6	179
A	10	830501	RIGHT	---	3.0	4.4	255	---	4.5	11.3	181

Appendix Table B-6. Intragravel and corresponding surface water quality measurements collected in Slough 9 (RM 129.2, Geographic Code S30N03W09DCB) of the Susitna River during two sampling periods (April 15-18 and April 29-May 2) in spring, 1983.

SITE	STANDPIPE NUMBER	SAMPLING DATE	SLOUGH BANK	INTRAGRAVEL				SURFACE WATER			
				WATER pH	WATER TEMP(C)	D.O. (mg/l)	SPEC.COND. (umhos/cm)	WATER pH	WATER TEMP(C)	D.O. (mg/l)	SPEC.COND. (umhos/cm)
A	01	830418	RIGHT	7.0	4.2	3.7	---	6.9	5.2	9.4	---
A	02	830418	RIGHT	7.1	4.4	4.0	---	7.0	5.3	9.8	---
A	03	830418	RIGHT	7.0	4.2	4.7	---	7.0	5.2	9.8	---
A	04	830418	RIGHT	6.8	4.7	4.1	---	6.9	5.3	9.6	---
A	05	830418	RIGHT	6.8	4.2	4.9	---	6.8	5.3	9.7	---
A	06	830418	RIGHT	6.9	4.1	5.1	---	6.8	5.1	9.8	---
A	07	830418	RIGHT	6.8	4.2	5.1	---	6.8	5.3	9.3	---
A	08	830418	RIGHT	6.9	4.1	5.4	---	7.0	5.3	9.4	---
A	09	830418	RIGHT	6.8	4.1	5.4	---	6.8	5.3	9.5	---
A	10	830418	RIGHT	7.0	5.2	6.7	---	6.9	5.3	9.7	---
A	01	830502	RIGHT	6.4	4.5	7.1	184	6.3	6.0	10.9	146
A	02	830502	RIGHT	6.2	3.5	7.7	152	6.3	5.8	10.9	156
A	03	830502	RIGHT	6.5	4.2	7.2	186	6.8	6.0	11.0	155
A	04	830502	RIGHT	6.6	4.5	8.0	171	6.5	6.0	11.0	155
A	05	830502	RIGHT	6.6	3.5	8.6	158	6.4	5.8	11.0	156
A	06	830502	RIGHT	---	3.8	10.8	128	---	6.0	10.9	151
A	07	830502	RIGHT	---	3.8	9.8	147	---	6.2	10.9	154
A	08	830502	RIGHT	---	3.5	9.5	158	---	6.2	10.9	154
A	09	830502	RIGHT	---	4.2	10.4	141	---	6.0	11.0	155
A	10	830502	RIGHT	---	5.0	9.3	136	---	6.0	11.0	150
B	01	830418	LEFT	6.8	3.0	5.5	---	6.8	5.0	9.5	---
B	02	830418	LEFT	6.5	4.0	5.8	---	6.5	5.3	10.0	---
B	03	830418	LEFT	6.8	4.3	6.7	---	6.8	5.2	9.2	---
B	04	830418	LEFT	6.6	4.9	6.1	---	6.6	5.2	9.6	---
B	05	830418	LEFT	6.8	3.8	6.4	---	6.8	5.1	9.6	---
B	06	830418	LEFT	7.0	3.1	6.8	---	7.0	5.1	9.0	---
B	07	830418	LEFT	6.8	3.9	6.3	---	6.8	5.2	9.6	---
B	08	830418	LEFT	6.7	4.1	6.3	---	6.7	5.4	9.6	---
B	09	830418	LEFT	6.7	4.6	6.1	---	6.7	5.4	9.4	---
B	10	830418	LEFT	6.8	3.8	6.4	---	6.8	5.2	9.7	---
B	01	830502	LEFT	6.3	3.5	5.7	226	6.2	6.0	10.7	155
B	02	830502	LEFT	6.4	4.0	5.4	236	6.3	6.0	10.7	155
B	03	830502	LEFT	6.2	4.5	5.5	233	5.9	6.2	10.5	163
B	04	830502	LEFT	6.2	4.5	5.3	236	6.3	6.2	10.7	157
B	05	830502	LEFT	6.3	3.8	5.8	221	6.2	6.5	10.7	156
B	06	830502	LEFT	---	3.8	6.6	203	---	6.2	10.4	163
B	07	830502	LEFT	---	3.8	6.3	203	---	6.5	10.7	153
B	08	830502	LEFT	---	4.0	6.4	206	---	6.2	10.8	157
B	09	830502	LEFT	---	4.0	6.1	206	---	6.5	10.9	156
B	10	830502	LEFT	---	4.2	6.6	201	---	6.5	10.6	156
C	01	830502	LEFT	---	4.2	6.4	218	---	6.2	8.2	192
C	02	830502	LEFT	---	4.0	2.3	257	---	5.5	8.0	197
C	03	830502	LEFT	---	4.0	1.3	250	---	5.2	8.0	198

Appendix Table B-7. Intragravel and corresponding surface water quality measurements collected in Slough 11 (RM 135.3, Geographic Code S31N02W19DDD) of the Susitna River during two sampling periods (April 15-18 and April 29-May 2) in spring, 1983.

SITE	STANDPIPE NUMBER	SAMPLING DATE	SLOUGH BANK	INTRAGRAVEL				SURFACE WATER			
				pH	WATER TEMP(C)	D.O. (mg/l)	SPEC.COND. (umhos/cm)	pH	WATER TEMP(C)	D.O. (mg/l)	SPEC.COND. (umhos/cm)
A	01	830417	LEFT	7.3	2.8	7.8	---	7.2	3.2	11.6	---
A	02	830417	LEFT	7.2	3.0	7.4	---	7.1	3.2	11.3	---
A	03	830417	LEFT	7.1	2.8	8.4	---	7.1	3.2	11.4	---
A	04	830417	LEFT	7.1	2.8	7.8	---	7.1	3.2	11.3	---
A	05	830417	LEFT	7.1	2.5	7.8	---	7.1	3.2	11.5	---
A	06	830417	LEFT	7.2	3.0	7.8	---	7.1	3.2	11.4	---
A	07	830417	LEFT	7.2	2.8	7.6	---	7.2	3.0	11.4	---
A	08	830417	LEFT	7.2	2.8	8.3	---	7.2	3.0	11.5	---
A	09	830417	LEFT	7.2	2.8	8.2	---	7.2	3.0	11.6	---
A	10	830417	LEFT	7.1	3.0	7.5	---	7.2	3.0	11.6	---
A	01	830430	LEFT	---	4.8	6.7	260	---	7.8	11.2	244
A	02	830430	LEFT	---	5.0	7.4	262	---	7.5	11.2	246
A	03	830430	LEFT	---	4.0	6.7	264	---	7.5	11.1	246
A	04	830430	LEFT	---	4.0	7.0	267	---	7.5	10.9	246
A	05	830430	LEFT	---	3.5	7.5	268	---	7.8	11.1	244
A	06	830430	LEFT	---	4.5	7.3	263	---	7.8	11.1	247
A	07	830430	LEFT	---	4.8	7.2	257	---	8.0	11.1	246
A	08	830430	LEFT	---	4.8	7.3	257	---	8.0	11.2	243
A	09	830430	LEFT	---	4.8	7.3	257	---	8.2	11.0	241
A	10	830430	LEFT	---	7.2	6.9	245	---	8.2	11.1	241
B	01	830415	LEFT	---	2.2	9.3	---	---	2.0	10.0	---
B	02	830415	LEFT	---	2.0	9.3	---	---	2.0	10.2	198
B	03	830415	LEFT	---	2.0	8.8	271	---	2.0	10.0	285
B	04	830415	LEFT	---	2.0	9.0	265	---	2.0	10.1	269
B	05	830415	LEFT	---	2.0	8.8	267	---	2.0	9.8	267
B	06	830415	LEFT	---	2.2	9.3	271	---	2.0	10.2	269
B	07	830415	LEFT	---	2.0	6.2	258	---	2.0	9.8	267
B	08	830415	LEFT	---	2.2	9.5	271	---	2.0	10.4	267
B	09	830415	LEFT	---	2.2	10.5	269	---	2.0	10.6	269
B	10	830415	LEFT	---	2.2	9.5	269	---	2.0	11.0	267
B	01	830415	RIGHT	6.8	2.0	9.8	267	6.3	2.0	9.8	267
B	02	830415	RIGHT	---	2.0	10.0	271	---	2.2	10.6	267
B	03	830415	RIGHT	---	2.2	9.5	269	---	2.0	10.2	267
B	04	830415	RIGHT	---	2.0	9.6	267	---	2.0	10.6	271
B	05	830415	RIGHT	---	1.8	10.8	271	---	1.8	10.4	269
B	06	830415	RIGHT	---	2.0	10.6	273	---	2.0	10.4	269
B	07	830415	RIGHT	---	2.2	10.1	276	---	2.0	10.5	271
B	08	830415	RIGHT	---	2.2	9.6	276	---	2.0	10.2	267
B	09	830415	RIGHT	---	2.2	10.1	278	---	2.0	10.1	267
B	10	830415	RIGHT	---	2.2	9.7	280	---	2.0	10.2	271
B	01	830429	RIGHT	---	4.0	9.7	---	---	5.8	10.3	---
B	02	830429	RIGHT	---	4.5	9.4	---	---	5.2	10.5	---
B	03	830429	RIGHT	---	3.8	9.5	---	---	5.2	10.8	---
B	04	830429	RIGHT	---	4.2	10.1	---	---	5.5	10.9	---
B	05	830429	RIGHT	---	4.5	10.4	---	---	5.2	11.0	---

Appendix Table B-7. (Cont.)

SITE	STANDPIPE NUMBER	SAMPLING DATE	SLOUGH BANK	INTRAGRAVEL				SURFACE WATER			
				pH	WATER TEMP(C)	D.O. (mg/l)	SPEC.COND. (umhos/cm)	pH	WATER TEMP(C)	D.O. (mg/l)	SPEC.COND. (umhos/cm)
B	06	830429	RIGHT	----	4.5	9.9	---	----	6.2	10.8	---
B	07	830429	RIGHT	----	4.8	9.8	---	----	5.8	10.9	---
B	08	830429	RIGHT	----	4.0	9.6	---	----	6.0	10.7	---
B	09	830429	RIGHT	----	4.0	9.6	---	----	5.8	10.9	---
B	10	830429	RIGHT	----	3.5	9.6	---	----	5.8	11.0	---
B	01	830429	LEFT	----	3.8	9.0	---	----	6.0	10.8	---
B	02	830429	LEFT	----	4.0	9.0	---	----	6.0	11.1	---
B	03	830429	LEFT	----	4.5	8.6	---	----	6.2	11.1	---
B	04	830429	LEFT	----	4.0	8.6	---	----	6.0	11.0	---
B	05	830429	LEFT	----	4.5	8.1	---	----	6.0	11.1	---
B	06	830429	LEFT	----	4.0	9.0	---	----	6.0	11.1	---
B	07	830429	LEFT	----	4.2	8.9	---	----	6.2	11.3	---
B	08	830429	LEFT	----	3.5	9.2	---	----	6.2	11.2	---
B	09	830429	LEFT	----	3.5	9.0	---	----	6.0	10.9	---
B	10	830429	LEFT	----	3.8	9.2	---	----	6.0	11.3	---
C	06	830417	RIGHT	6.4	2.5	11.2	---	6.4	2.0	11.4	---
C	08	830417	RIGHT	6.3	2.5	4.8	---	6.3	1.8	11.0	---
C	09	830417	RIGHT	6.3	2.5	2.3	---	6.3	1.8	11.6	---
C	10	830417	RIGHT	6.2	2.2	1.3	---	6.3	1.8	12.4	---
C	06	830430	RIGHT	----	4.0	10.2	206	----	5.5	10.8	245
C	08	830430	RIGHT	----	4.5	3.6	234	----	5.2	10.7	238
C	09	830430	RIGHT	----	5.2	2.3	159	----	5.2	10.6	241
C	10	830430	RIGHT	----	5.2	1.1	166	----	5.5	10.5	232

Appendix Table B-8. Intragravel and corresponding surface water quality measurements collected in Slough 21 (RM 142.0, Geographic Code S31N02W02AAA) of the Susitna River during two sampling periods (April 15-18 and April 29-May 2) in spring, 1983.

SITE	STANDPIPE NUMBER	SAMPLING DATE	SLOUGH BANK	INTRAGRAVEL				SURFACE WATER			
				pH	WATER TEMP(C)	D.O. (mg/l)	SPEC.COND. (umhos/cm)	pH	WATER TEMP(C)	D.O. (mg/l)	SPEC.COND. (umhos/cm)
A	01	830416	LEFT	7.1	2.8	2.3	---	7.2	2.8	6.2	---
A	02	830416	LEFT	7.0	2.5	6.5	---	6.8	2.5	6.5	---
A	03	830416	LEFT	6.9	3.0	6.8	---	6.7	4.0	8.8	---
A	04	830416	LEFT	6.6	3.0	6.9	---	6.6	5.0	8.8	---
A	05	830416	LEFT	6.7	3.2	6.0	---	6.7	5.0	8.8	---
A	06	830416	LEFT	6.7	3.2	6.7	---	6.7	4.5	8.6	---
A	07	830416	LEFT	6.7	3.0	6.5	---	6.7	5.0	8.7	---
A	08	830416	LEFT	6.7	3.0	6.6	---	6.7	5.2	9.4	---
A	09	830416	LEFT	6.8	3.0	6.5	---	6.8	5.2	9.3	---
A	10	830416	LEFT	6.7	3.5	6.7	---	6.7	5.5	9.4	---
A	01	830416	RIGHT	7.1	4.0	7.4	---	7.2	5.2	9.6	---
A	02	830416	RIGHT	7.1	4.0	7.5	---	7.1	5.2	9.8	---
A	03	830416	RIGHT	7.1	4.0	7.7	---	7.1	5.2	10.0	---
A	04	830416	RIGHT	7.1	4.5	8.6	---	7.1	5.2	9.8	---
A	05	830416	RIGHT	7.0	4.5	7.7	---	7.1	5.2	9.7	---
A	06	830416	RIGHT	7.0	4.5	5.0	---	7.1	5.2	9.5	---
A	07	830416	RIGHT	7.0	4.5	8.8	---	7.1	5.2	9.8	---
A	08	830416	RIGHT	7.1	4.5	8.4	---	7.1	5.2	9.8	---
A	09	830416	RIGHT	7.1	4.5	8.2	---	6.9	5.2	10.0	---
A	10	830416	RIGHT	6.9	5.0	6.8	---	6.7	5.2	9.7	---
A	01	830501	LEFT	6.7	2.5	6.7	239	6.6	2.5	7.3	245
A	02	830501	LEFT	6.8	2.5	7.1	245	6.6	2.5	7.7	248
A	03	830501	LEFT	6.8	2.8	7.4	242	6.6	5.0	9.4	254
A	04	830501	LEFT	6.6	3.0	7.1	241	6.8	5.2	9.8	252
A	06	830501	LEFT	6.7	2.5	7.0	239	6.8	4.0	8.7	262
A	07	830501	LEFT	---	2.5	7.0	248	---	4.8	9.8	255
A	08	830501	LEFT	---	2.8	6.9	246	---	6.8	9.7	245
A	09	830501	LEFT	---	3.2	6.9	243	---	6.0	10.1	251
A	10	830501	LEFT	---	4.0	6.9	236	---	6.5	10.2	250
A	01	830501	RIGHT	6.8	4.5	7.3	216	6.8	7.5	10.5	240
A	02	830501	RIGHT	6.8	4.0	7.4	212	6.9	7.2	10.5	238
A	03	830501	RIGHT	6.8	3.8	7.5	213	6.8	7.0	10.5	244
A	04	830501	RIGHT	6.8	4.0	7.6	206	6.7	7.0	10.5	239
A	05	830501	RIGHT	6.8	4.2	7.6	210	6.7	7.2	10.5	242
A	06	830501	RIGHT	---	4.5	7.7	208	---	7.0	10.5	244
A	07	830501	RIGHT	---	4.0	8.3	174	---	7.0	10.6	244
A	08	830501	RIGHT	---	3.8	7.9	175	---	7.0	10.5	244
A	09	830501	RIGHT	---	3.8	8.4	185	---	6.8	10.5	248
A	10	830501	RIGHT	---	4.0	7.6	212	---	6.8	10.3	248

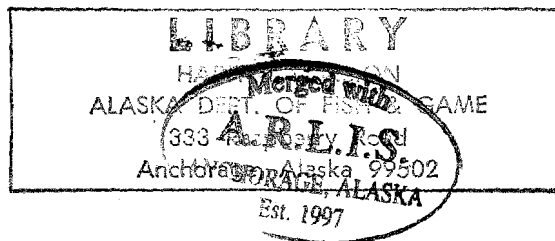
Appendix B: Incubation Habitat:

Data collected within standpipes and at adjacent surface water locations.

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SUSITNA HYDRO AQUATIC STUDIES
PHASE II DATA REPORT

Winter Aquatic Studies
(October, 1982 - May, 1983)

by

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