CLEARWATER RIVER BASIN

13342450 LAPWAI CREEK NEAR LAPWAI, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1975 to March 1982, November 1990 to September 1991, October 1992 to September 1993, October 1994 to September 1995, April to September 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
23...	1500	1170	112	7.5	14.0	9.0	140	11.3	100	600	220
MAY											
13...	1430	180	197	8.0	27.0	18.0	12	10.4	112	250	73
JUN											
17...	1500	56	258	8.3	27.0	17.5	6.0	10.0	110	530	270
JUL											
14...	1545	25	345	8.3	32.0	23.5	3.6	10.5	127	190	180
AUG											
26...	1530	19	320	8.2	34.0	23.5	2.4	9.7	119	80	280
SEP											
10...	0745	14	370	7.8	19.5	15.0	2.2	9.6	101	89	K42

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER WH FET FIELD MG/L AS HCO3 (00440)	CAR-BONATE WATER WH FET FIELD MG/L AS CO3 (00445)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)
SEP									
10...	150	39	13	19	21	4.1	200	0	166

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
10...	10	3.9	0.28	35	235	235	0.32	8.88

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
23...	<0.010	1.62	<0.015	2.8	1.12	0.084	1420	4490
MAY								
13...	<0.010	2.21	<0.015	0.39	0.118	0.074	21	10
JUN								
17...	<0.010	2.31	<0.015	0.29	0.087	0.070	37	5.6
JUL								
14...	0.028	2.77	0.039	0.45	0.102	0.084	17	1.1
AUG								
26...	0.021	1.86	<0.015	0.38	0.107	0.092	12	0.62
SEP								
10...	0.013	2.43	0.016	0.35	0.091	0.061	13	0.49

K Results based on counts outside ideal colony range.

CLEARWATER RIVER BASIN

13342450 LAPWAI CREEK NEAR LAPWAI, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to 1982, 1991, 1993, 1995, 1997, April to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 30 to September 30, 1998 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE:Maximum, 29.1 °C July 27; minimum recorded, 8.5 °C May 27-28.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
28...	1600	74	187	8.5	26.0	17.0	14	11.9	117	K45	440
MAY											
12...	1530	28	265	8.7	18.5	18.0	2.9	9.4	105	210	K16
JUN											
16...	1430	32	250	8.6	12.5	14.0	1.6	11.3	115	170	280
JUL											
21...	0745	16	291	8.2	20.0	16.0	3.0	9.7	103	260	850
AUG											
12...	0945	6.9	319	8.4	26.0	18.0	1.6	10.3	113	K210	140
SEP											
09...	0910	9.1	332	8.2	18.5	17.5	--	11.2	122	1100	2800

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
09...	130	33	12	18	22	4.5	190	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
09...	159	7.3	3.7	.25	37	216	.29	5.31

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
28...	.011	.995	<.020	.40	.107	.062	23	4.6
MAY								
12...	<.010	1.44	.028	.35	.081	.084	11	.84
JUN								
16...	<.010	1.01	.047	.30	.060	.016	4	.35
JUL								
21...	.013	1.01	.025	.31	.100	.072	19	.82
AUG								
12...	.017	.892	.085	.27	.078	.082	11	.20
SEP								
09...	<.010	1.17	.030	.38	.117	.097	19	.47

K Results based on counts outside ideal colony range.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	20.0	11.6	15.7
2	---	---	---	19.3	12.5	15.9
3	---	---	---	21.1	13.2	16.8
4	---	---	---	21.6	12.7	16.9
5	---	---	---	22.4	14.1	17.8
6	---	---	---	22.8	14.1	18.0
7	---	---	---	22.4	14.4	18.0
8	---	---	---	19.8	13.3	16.5
9	---	---	---	15.8	13.2	14.0
10	---	---	---	20.0	12.5	15.9
11	---	---	---	20.4	13.2	16.4
12	---	---	---	19.5	13.8	16.4
13	---	---	---	15.8	13.8	14.5
14	---	---	---	14.7	12.4	13.5
15	---	---	---	17.1	10.7	13.7
16	---	---	---	17.4	10.8	13.9
17	---	---	---	13.9	12.2	12.9
18	---	---	---	19.3	10.7	14.5
19	---	---	---	20.0	11.8	15.5
20	---	---	---	20.6	12.1	15.7
21	---	---	---	15.2	12.2	13.2
22	---	---	---	12.2	11.1	11.5
23	---	---	---	12.4	10.5	11.3
24	---	---	---	15.8	10.5	12.8
25	---	---	---	12.5	10.4	11.6
26	---	---	---	10.4	8.8	9.7
27	---	---	---	12.5	8.5	10.2
28	---	---	---	14.7	8.5	11.5
29	---	---	---	12.5	10.1	11.4
30	19.2	11.3	15.1	14.4	10.5	12.4
31	---	---	---	17.4	11.0	13.9
MONTH	---	---	---	22.8	8.5	14.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.4	11.8	14.7	24.6	16.9	20.5	23.6	18.0	20.7	24.6	15.5	19.6
2	18.4	12.5	15.4	25.2	16.4	20.5	27.6	17.9	22.2	25.2	15.5	19.7
3	19.3	12.7	15.9	23.4	17.5	20.4	28.3	18.8	23.0	25.0	15.3	19.6
4	19.0	11.8	15.4	24.6	17.7	20.8	28.7	18.2	22.8	25.3	15.8	20.0
5	16.8	12.5	14.4	24.5	17.4	20.5	27.8	18.2	22.4	25.2	16.3	20.1
6	19.0	11.5	14.9	25.9	17.1	21.0	27.4	18.5	22.3	25.0	15.8	19.8
7	18.7	12.2	15.3	26.6	17.2	21.5	26.2	17.2	21.1	22.4	17.7	19.7
8	20.0	12.5	16.0	26.9	18.4	22.1	25.9	15.3	20.0	25.3	17.9	20.7
9	21.6	12.7	16.9	27.6	19.0	22.7	26.6	15.6	20.5	19.8	17.1	18.4
10	21.3	14.5	17.8	24.3	19.0	21.4	27.1	17.1	21.4	20.1	16.4	17.8
11	20.6	14.2	17.0	23.1	18.5	20.6	27.1	17.1	21.5	22.1	14.5	17.9
12	22.6	15.3	18.6	24.0	16.4	20.0	27.4	17.1	21.6	22.4	14.9	18.3
13	20.8	16.0	18.3	24.3	16.8	20.2	28.0	17.4	21.9	22.4	14.7	18.2
14	22.4	14.5	18.2	25.5	16.6	20.7	28.0	17.2	21.8	22.9	14.9	18.5
15	19.5	15.3	17.2	26.4	17.7	21.8	27.3	17.4	21.3	23.6	15.5	19.1
16	16.1	13.5	14.7	27.4	18.4	22.5	25.0	16.1	19.6	23.3	17.1	19.6
17	21.3	11.9	16.3	28.2	18.8	23.1	24.1	14.5	18.6	20.9	16.4	18.5
18	22.6	15.2	18.4	27.8	19.0	23.0	23.6	13.8	18.1	19.2	15.8	17.4
19	17.4	14.9	15.7	26.7	18.5	22.2	24.3	14.1	18.5	16.9	14.7	15.9
20	22.3	14.1	17.6	26.2	16.8	21.2	25.0	15.3	19.2	19.6	14.2	16.3
21	23.3	14.4	18.6	26.6	16.6	21.3	25.7	15.8	19.9	19.2	12.8	15.8
22	19.6	15.5	17.7	27.4	17.5	22.1	25.3	16.0	20.0	19.2	12.7	15.7
23	22.9	15.3	18.8	24.6	18.4	21.4	21.3	16.6	18.2	19.6	13.5	16.3
24	18.8	15.8	17.4	27.4	19.3	22.7	24.1	16.0	19.4	18.7	13.0	15.9
25	18.5	15.5	16.7	28.3	19.0	23.2	24.1	15.0	19.0	16.9	15.0	15.9
26	17.4	14.4	15.8	28.9	19.0	23.5	23.1	15.2	18.8	18.8	14.1	15.9
27	21.3	12.8	16.6	29.1	19.5	23.8	24.0	14.5	18.8	18.5	12.5	15.3
28	22.8	14.1	18.0	28.5	20.1	23.8	24.6	14.7	19.1	18.5	12.5	15.3
29	23.4	14.4	18.6	28.2	19.5	23.1	25.0	15.6	19.6	18.4	12.4	15.2
30	25.3	16.4	20.4	25.2	19.3	21.7	24.6	14.7	19.0	18.2	12.4	15.1
31	---	---	---	24.5	19.0	21.6	25.2	15.5	19.7	---	---	---
MONTH	25.3	11.5	16.9	29.1	16.4	21.8	28.7	13.8	20.3	25.3	12.4	17.7

WATER-QUALITY RECORDS

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.
AVERAGE DEPTH.--0.17 m.
AVERAGE PERCENT SHADING.--51.
AVERAGE VELOCITY.--0.45 m/s.
SUBSTRATE EMBEDDEDNESS CLASS RANGE.--3-4.
PERCENT FINES RANGE.--0.
HABITAT QUALITY INDEX.--72.

BIOLOGICAL DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE SEP 15	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	FUNC-TIONAL FEEDING GROUP	POLLU-TION TOLER-ANCE VALUE
NON-INSECTS					
Enchytraeidae		112	2.0	CG	10
Pacifasticus		8	0.1	OM	6
Acari		8	0.1	PA	5
EPHEMEROPTERA					
Baetis tricaudatus		128	2.2	CG	6
Ephemerella inermis/infrequens		8	0.1	CG	1
Epeorus-early instar		56	1.0	SC	0
Heptagenia/Nixe		8	0.1	SC	2
Rhithrogena		64	1.1	SC	0
Paraleptophlebia		824	14.4	CG	4
Paraleptophlebia bicornuta		8	0.1	CG	4
Tricorythodes minutus		32	0.6	CG	4
PLECOPTERA					
Skwala		8	0.1	PR	2
TRICHOPTERA					
Brachycentrus occidentalis		24	0.4	OM	1
Cheumatopsyche		1216	21.3	CF	8
Hydropsyche		1136	19.9	CF	4
Leucotrichia		40	0.7	SC	6
LEPIDOPTERA					
Petrophila		824	14.4	SC	5
COLEOPTERA					
Optioservus		568	9.9	SC	4
Ordobrevia nubifera		64	1.1	CG	4
Zaitzevia		24	0.4	CG	4
Psephenus		8	0.1	SC	4
DIPTERA					
Hemerodromia		16	0.3	PR	6
Antocha		16	0.3	CG	3
CHIRONOMIDAE					
Chironomidae-pupae		40	0.7	UN	6
Cardiocladius		48	0.8	PR	5
Cricotopus		200	3.5	CG	7
Cricotopus Bicinctus Gr.		8	0.1	CG	7
Micropsectra		8	0.1	CG	7
Microtendipes		16	0.3	CG	6
Orthocladius Complex		32	0.6	CG	6
Polypedilum		24	0.4	OM	6
Potthastia Gaedii Gr.		16	0.3	CG	2
Rheotanytarsus		48	0.8	CF	6
Thienemanniella		32	0.6	CG	6
Thienemannimyia Gr.		48	0.8	PR	6

TOTAL NUMBER OF TAXA 35
TOTAL NUMBER OF ORGANISMS 5720/m^2
HILSENHOFF BIOTIC INDEX 5.27

EPT ABUNDANCE 3552/m^2
NUMBER EPT TAXA 13

COLLECTION METHODS.--Qualitative multiple habitat, relative abundance.
MESH SIZE.--210 um.
GEAR TYPE.--D-frame net and visual collections.

REACH LENGTH.--150 m.

AVERAGE WIDTH.--36 m.

HABITAT QUALITY INDEX.--72.

BIOLOGICAL DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE SEP 15	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	FUNC-TIONAL FEEDING GROUP	POLLU-TION TOLER-ANCE VALUE
NON-INSECTS					
Turbellaria		10	0.1	CG	4
Enchytraeidae		120	1.6	CG	10
Pacifasticus		20	0.3	OM	6
ODONATA					
Argia		70	1.0	PR	7
Calopteryx		30	0.4	PR	5
Enallagma/ischnura		40	0.5	PR	9
EPHEMEROPTERA					
Baetidae		30	0.4	CG	4
Acentrella turbida		10	0.1	CG	4
Baetis tricaudatus		1550	21.0	CG	6
Epeorus-early instar		10	0.1	SC	0
Epeorus albertae		10	0.1	SC	1
Rhithrogena		20	0.3	SC	0
Paraleptophlebia		340	4.6	CG	4
PLECOPTERA					
Skwala		10	0.1	PR	2
HEMIPTERA					
Corixidae		10	0.1	UN	8
Gerris		90	1.2	PR	11
TRICHOPTERA					
Brachycentrus occidentalis		40	0.5	OM	1
Cheumatopsyche		470	6.4	CF	8
Hydropsyche		1150	15.5	CF	4
Hydroptila		20	0.3	PH	6
Leucotrichia		90	1.2	SC	6
LEPIDOPTERA					
Petrophila		180	2.4	SC	5
COLEOPTERA					
Optioservus		390	5.3	SC	4
Ordobrevia nubifera		50	0.7	CG	4
Zaitzevia		80	1.1	CG	4
DIPTERA					
Ephydridae		10	0.1	CG	6
Simulium		250	3.4	CF	6
Antocha		30	0.4	CG	3
Hexatoma		10	0.1	PR	2
Limonia		10	0.1	MH	6
CHIRONOMIDAE					
Chironomidae-pupae		30	0.4	UN	6
Cardiocladius		550	7.4	PR	5
Chironomus		240	3.2	CG	10
Corynoneura		40	0.5	CG	7
Cricotopus		380	5.1	CG	7
Dicrotendipes		20	0.3	CG	8
Eukiefferiella		110	1.5	OM	8
Micropsectra		70	1.0	CG	7
Nanocladius		20	0.3	CG	3
Orthocladius Complex		160	2.2	CG	6
Phaenopsectra		40	0.5	SC	7
Polypedilum		40	0.5	OM	6
Rheotanytarsus		90	1.2	CF	6
Thienemanniella		330	4.5	CG	6
Thienemannimyia Gr.		130	1.8	PR	6

TOTAL NUMBER OF TAXA 45
TOTAL NUMBER OF ORGANISMS 7400
HILSENHOFF BIOTIC INDEX 5.7

EPT ABUNDANCE 3750
NUMBER EPT TAXA 13

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-82, 1991, 1993, 1995, April to September 1997, April to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April to September 1998, April to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.1 °C July 27, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 27.7 °C Aug. 1.

REMARKS.--Missing data due to equipment malfunction.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
11...	0850	98	134	8.1	18.5	8.7	21	11.5	102	300	K44
MAY											
01...	1640	48	176	8.5	25.5	19.1	22	10.2	113	80	47
JUN											
13...	1415	59	159	8.5	22.5	19.1	17	9.5	104	360	180
JUL											
25...	1525	3.5	308	9.0	33.0	24.8	1.4	--	--	120	140
AUG											
21...	1820	3.1	306	8.8	27.5	21.2	1.5	7.1	82	77	250
SEP											
11...	1520	11	301	8.4	24.5	19.4	2.0	8.0	89	280	400

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
11...	120	29.9	10.8	16.8	23	4.9	160	4

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
11...	138	6.9	5.3	.3	38.1	200	.27	6.04

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR							
11...	1.01	.004	.47	.131	.048	16	4.2
MAY							
01...	.944	.011	.43	.103	.057	64	8.3
JUN							
13...	.554	.010	.56	.171	.066	60	9.6
JUL							
25...	.943	.011	.76	.131	.090	13	.13
AUG							
21...	.705	.013	.33	.091	.059	24	.20
SEP							
11...	.805	.006	.42	.134	.101	14	.42

K Results based on counts outside ideal colony range.

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
	APRIL			MAY		
1	---	---	---	18.9	10.5	14.6
2	---	---	---	17.9	13.0	15.0
3	---	---	---	15.0	12.4	13.4
4	---	---	---	14.4	10.5	12.2
5	---	---	---	13.6	9.6	11.6
6	---	---	---	15.2	7.7	11.2
7	---	---	---	15.3	8.3	11.7
8	---	---	---	16.1	9.1	12.4
9	---	---	---	14.1	11.3	12.6
10	---	---	---	11.9	8.7	10.3
11	---	---	---	11.4	8.0	9.7
12	15.3	9.4	12.3	14.6	8.5	11.1
13	13.8	10.8	12.3	15.3	8.3	11.8
14	13.5	9.6	11.2	16.3	10.8	13.5
15	11.6	9.0	10.3	17.4	10.4	13.9
16	11.9	8.5	10.1	18.4	11.1	14.7
17	15.7	8.0	11.6	19.0	13.0	15.9
18	17.4	9.6	13.3	19.5	11.4	15.3
19	17.1	10.5	13.7	18.9	12.5	15.5
20	17.1	9.9	13.4	19.7	12.5	16.0
21	18.5	11.0	14.7	20.3	14.2	17.1
22	16.1	11.3	13.5	22.1	15.0	18.2
23	13.6	8.0	10.7	20.6	14.9	17.4
24	13.9	7.6	10.6	21.3	13.8	17.2
25	11.0	8.3	9.7	19.2	13.0	16.2
26	14.6	7.3	10.7	19.2	13.9	16.1
27	17.3	9.0	13.1	18.1	14.2	16.1
28	15.5	10.7	13.1	20.5	13.0	16.3
29	15.8	8.2	11.8	19.2	11.9	15.4
30	17.6	8.7	12.9	16.5	11.4	14.0
31	---	---	---	14.2	11.0	12.4
MONTH	---	---	---	22.1	7.7	14.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	17.3	9.1	13.0	23.3	16.0	19.2	27.7	18.2	22.5	17.9	15.2	16.2
2	18.4	12.1	15.2	23.5	14.6	18.5	27.0	16.5	21.3	16.6	14.1	15.0
3	21.5	12.5	16.6	17.9	14.9	16.1	25.0	16.3	20.7	18.1	11.3	14.4
4	22.8	13.3	17.7	21.0	12.9	16.3	26.4	17.4	21.3	18.1	12.7	15.2
5	21.6	15.2	18.1	18.4	13.8	16.4	26.4	15.7	20.6	15.3	13.9	14.5
6	21.8	14.7	18.2	20.5	15.0	17.2	26.4	16.1	20.9	19.3	12.5	15.4
7	23.5	14.2	18.5	24.4	14.7	19.0	26.3	16.0	20.7	20.0	12.7	16.2
8	19.5	15.3	16.4	20.0	15.8	17.8	26.4	15.2	20.3	16.6	14.1	15.1
9	18.7	13.9	15.9	24.5	15.7	19.3	26.8	15.7	20.6	18.2	12.2	14.7
10	15.8	12.5	13.8	24.7	14.4	19.1	25.6	16.8	20.8	15.0	13.6	14.2
11	15.7	10.2	12.9	25.6	15.0	19.8	25.4	16.9	20.4	19.8	14.1	16.3
12	15.0	13.0	13.8	26.8	16.1	20.7	23.3	13.6	18.2	20.8	13.8	17.0
13	19.8	12.9	16.0	26.8	16.6	21.0	23.8	13.9	18.4	21.6	14.9	17.9
14	19.0	14.1	16.7	25.9	16.0	20.3	23.7	13.3	18.0	22.0	15.5	18.5
15	20.2	14.9	17.3	25.0	15.5	19.5	23.1	13.5	18.0	21.5	16.1	18.7
16	22.0	12.5	16.8	25.0	13.6	18.7	23.1	12.9	17.7	20.0	15.5	17.8
17	22.5	13.5	17.6	24.9	15.0	19.4	23.0	12.7	17.5	21.1	15.0	17.8
18	20.5	14.2	17.4	---	---	---	22.6	13.9	17.8	19.8	15.0	17.5
19	21.0	14.6	17.3	---	---	---	21.5	14.9	17.8	21.0	16.3	18.5
20	23.0	13.6	18.0	---	---	---	22.3	13.0	17.1	16.3	12.5	14.6
21	24.2	14.7	19.1	---	---	---	22.0	12.4	16.8	15.5	13.2	14.4
22	23.8	15.7	19.6	---	---	---	22.3	12.4	17.0	15.0	11.0	12.6
23	23.0	14.7	18.6	---	---	---	22.8	13.5	17.9	13.9	7.7	10.7
24	20.8	14.4	17.6	---	---	---	24.7	16.5	20.0	14.4	7.7	10.8
25	24.2	14.1	18.6	---	---	---	24.5	16.1	19.9	14.9	8.7	11.5
26	24.5	14.6	19.2	25.6	15.8	20.3	23.0	15.0	18.7	15.3	8.7	11.8
27	25.2	15.3	19.9	25.4	15.7	20.2	20.8	13.3	16.8	16.0	9.3	12.5
28	25.7	15.8	20.4	26.4	15.7	20.6	21.1	12.1	16.2	15.8	10.2	12.9
29	24.9	16.3	20.3	27.5	16.9	21.8	21.1	11.9	16.3	14.6	11.1	12.9
30	25.0	15.8	20.0	27.1	17.4	22.0	22.6	14.9	18.1	14.4	13.3	13.7
31	---	---	---	27.3	18.7	22.5	21.3	13.6	17.3	---	---	---
MONTH	25.7	9.1	17.4	---	---	---	27.7	11.9	18.9	22.0	7.7	15.0

13342450 LAPWAI CREEK NEAR LAPWAI, ID--Continued

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--150 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.33 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

BIOLOGICAL DATA, SEPTEMBER 2000
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	SEP. 16								
Catostomidae (Suckers)									
Catostomus columbianus (Bridgelip sucker)		27	7.8	55-135	2-41	NATIVE	HERBIVORE	COLD	27-AA
Catostomus macrocheilus (Largescale sucker)		8	2.3	47-68	2-4	NATIVE	OMNIVORE	COLD	8-AA
Cottidae (Sculpins)									
Cottus beldingi (Paiute sculpin)		151	43.5	27-92	1-18	NATIVE	INVERTIVORE	COLD	151-AA
Cyprinidae (Carps and minnows)									
Acrocheilus alutaceus (Chiselmouth)		18	5.2	42-110	1-16	NATIVE	HERBIVORE	COLD	18-AA
Ptychocheilus oregonensis (Northern pikeminnow)		18	5.2	49-138	1-28	NATIVE	INVERTIVORE	COOL	18-AA
Rhinichthys osculus (Speckled dace)		74	21.3	45-92	1-14	NATIVE	INVERTIVORE	COLD	74-AA
Richardsonius balteatus (Redside shiner)		37	10.7	46-112	1-21	NATIVE	INVERTIVORE	COLD	37-AA
Salmonidae (Trouts)									
Oncorhynchus mykiss sp. (Rainbow trout)		14	4.0	142-199	27-104	NATIVE	INVERTIVORE	COLD	14-AA

TOTAL NUMBER OF TAXA 8
TOTAL INDIVIDUALS 347

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-82, 1991, 1993, 1995, April to September 1997, April to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April to September 1998, April to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.1 ^{o}C July 27, 1998.

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.

AVERAGE DEPTH.-- 0.12 m.

AVERAGE PERCENT SHADING.--69.

AVERAGE VELOCITY.--0.53 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--2-3.

PERCENT FINES AVERAGE.--22.

BIOLOGICAL DATA, AUGUST 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE Aug.29	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Turbellaria		10	0.27
Ophidonais serpentina		45	1.20
Uncinais uncinata		515	13.58
Imma. Tubificid with cap. setae		45	1.20
Ostracoda		10	0.27
Hyalella azteca		5	0.13
Pacifasticus		5	0.13
Acari		61	1.60
ODONATA			
Argia		15	0.40
EPHEMEROPTERA			
Baetis tricaudatus		25	0.67
Fallceon quilleri		5	0.13
Epeorus albertae		10	0.27
Rhithrogena		10	0.27
Paraleptophlebia		76	2.00
Paraleptophlebia bicornuta		10	0.27
Tricorythodes		5	0.13
PLECOPTERA			
Sweltsa		5	0.13
Pteronarcella		5	0.13
TRICHOPTERA			
Brachycentrus occidentalis		434	11.45
Glossosoma		10	0.27
Helicopsyche borealis		10	0.27
Cheumatopsyche		81	2.13
Hydropsyche		349	9.19
Hydroptila		167	4.39
Leucotrichia		76	2.00
Lepidostoma-sand case larvae		5	0.13
LEPIDOPTERA			
Petrophila		182	4.79
COLEOPTERA			
Optioservus		919	24.23
Ordobrevia nubifera		35	0.93
Zaitzevia		71	1.86
Psephenus		51	1.33
DIPTERA			
Atherix		30	0.80
Hemerodromia		30	0.80
Simulium		30	0.80
Antocha		106	2.80
Hexatoma		5	0.13
CHIRONOMIDAE			
Chironomidae-pupae		30	0.80
Chironomus		5	0.13
Cricotopus		126	3.33
Microtendipes		20	0.53
Potthastia Gaedii group		86	2.26
Rheocricotopus		5	0.13
Rheotanytarsus		5	0.13
Stempellinella		10	0.27
Sublettea		35	0.93
Tanytarsus		5	0.13
Thienemannimyia group		10	0.27

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 47
TOTAL INDIVIDUALS 3,794

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-82, 1991, 1993, 1995, April to September 1997, April to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April to September 1998, April to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.1 °C July 27, 1998.

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.

AVERAGE DEPTH.-- 0.12 m.

AVERAGE PERCENT SHADING.--69.

AVERAGE VELOCITY.--0.53 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--2-3.

PERCENT FINES AVERAGE.--22.

BIOLOGICAL DATA, AUGUST 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM TAXON *GENUS SPECIES*	DATE Aug.29	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Turbellaria		10	0.27
Ophidonais serpentina		45	1.20
Uncinais uncinata		515	13.58
Imma. Tubificid with cap. setae		45	1.20
Ostracoda		10	0.27
Hyalella azteca		5	0.13
Pacifasticus		5	0.13
Acari		61	1.60
ODONATA			
Argia		15	0.40
EPHEMEROPTERA			
Baetis tricaudatus		25	0.67
Fallceon quilleri		5	0.13
Epeorus albertae		10	0.27
Rhithrogena		10	0.27
Paraleptophlebia		76	2.00
Paraleptophlebia bicornuta		10	0.27
Tricorythodes		5	0.13
PLECOPTERA			
Sweltsa		5	0.13
Pteronarcella		5	0.13
TRICHOPTERA			
Brachycentrus occidentalis		434	11.45
Glossosoma		10	0.27
Helicopsyche borealis		10	0.27
Cheumatopsyche		81	2.13
Hydropsyche		349	9.19
Hydroptila		167	4.39
Leucotrichia		76	2.00
Lepidostoma-sand case larvae		5	0.13
LEPIDOPTERA			
Petrophila		182	4.79
COLEOPTERA			
Optioservus		919	24.23
Ordobrevia nubifera		35	0.93
Zaitzevia		71	1.86
Psephenus		51	1.33
DIPTERA			
Atherix		30	0.80
Hemerodromia		30	0.80
Simulium		30	0.80
Antocha		106	2.80
Hexatoma		5	0.13
CHIRONOMIDAE			
Chironomidae-pupae		30	0.80
Chironomus		5	0.13
Cricotopus		126	3.33
Microtendipes		20	0.53
Potthastia Gaedii group		86	2.26
Rheocricotopus		5	0.13
Rheotanytarsus		5	0.13
Stempellinella		10	0.27
Sublettea		35	0.93
Tanytarsus		5	0.13
Thienemannimyia group		10	0.27

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 47
TOTAL INDIVIDUALS 3,794