WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-1981, July 1989 to September 1990, October 1992 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1994 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.0 ^{o}C Aug. 7, 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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...	1315	1630	255	8.3	12.0	9.5	6.5	10.3	102	K150	180
MAY											
09...	1500	415	379	8.5	20.0	14.0	7.0	9.8	108	84	210
JUN											
21...	1200	691	289	8.5	24.5	16.5	3.0	9.9	116	150	250
JUL											
09...	1345	119	331	8.8	35.0	24.5	2.8	9.3	126	110	150
AUG											
23...	1145	86	365	8.7	27.5	19.0	4.6	8.9	108	120	200
SEP											
09...	1500	251	363	8.7	32.0	19.5	4.8	13.0	160	110	200

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									
09...	150	41	12	15	17	3.4	150	4	129

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								
09...	28	13	0.60	12	212	203	0.29	144

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								
11...	<0.01	0.11	<0.015	0.7	0.12	0.02	80	352
MAY								
09...	<0.01	0.09	0.030	0.5	0.08	<0.01	34	38
JUN								
21...	<0.01	<0.05	0.030	0.3	0.06	0.02	20	37
JUL								
09...	<0.01	<0.05	0.020	<0.2	0.03	0.03	9	2.9
AUG								
23...	0.01	1.9	0.030	0.3	0.09	0.06	14	3.3
SEP								
09...	<0.01	0.07	<0.015	0.5	0.07	0.03	19	13

K Results based on counts outside ideal colony range.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-1981, July 1989 to September 1990, October 1992 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1994 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.0 ^{o}C Aug. 7, 1994.

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											
13...	0945	528	337	8.3	11.0	5.5	22	10.7	96	58	93
MAY											
12...	1015	1580	231	9.1	22.5	12.0	--	12.4	129	160	120
JUN											
13...	0815	2790	214	8.1	18.0	13.0	9.3	8.8	96	290	310
JUL											
17...	1030	208	321	7.9	26.5	22.5	10	7.4	96	120	170
AUG											
14...	1015	197	329	8.7	20.0	20.0	10	7.7	95	100	200
SEP											
12...	0915	470	339	7.8	14.0	17.5	8.3	7.5	92	--	450

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									
12...	140	38	11	12	15	3.3	160	0	129

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								
12...	23	11	0.50	13	185	190	0.25	235

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								
13...	<0.010	0.202	<0.015	0.68	0.126	<0.010	55	78
MAY								
12...	<0.010	<0.050	<0.015	0.46	0.072	<0.010	26	111
JUN								
13...	<0.010	0.103	<0.015	0.43	0.061	0.017	49	369
JUL								
17...	<0.010	0.097	<0.015	0.38	0.074	0.046	17	9.5
AUG								
14...	<0.010	<0.050	<0.015	0.53	0.055	0.020	35	19
SEP								
12...	<0.010	0.064	0.050	0.33	0.085	0.048	43	55

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-1981, July 1989 to September 1990, October 1992 to September 1997, February to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1994, February to September 1998 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.0 °C Aug. 7, 1994, minimum recorded, 0.2 °C Feb. 28, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 28.2 °C July 17, minimum recorded, 0.2 °C Feb. 28.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	4.3	1.0	2.5	9.5	7.1	8.3	17.6	14.4	16.1
2	---	---	---	3.6	1.8	2.7	9.6	7.9	8.6	18.1	15.5	16.9
3	---	---	---	5.3	2.3	3.5	8.7	6.8	7.5	18.5	15.8	17.1
4	---	---	---	4.7	1.7	2.9	7.6	6.4	6.9	17.3	15.8	16.5
5	---	---	---	4.3	1.2	2.7	8.1	6.2	7.2	16.1	14.6	15.3
6	---	---	---	4.7	2.1	2.9	8.4	6.5	7.5	15.7	14.1	14.9
7	---	---	---	5.7	1.5	2.9	8.8	6.8	7.8	16.6	13.9	15.4
8	---	---	---	2.9	1.2	1.9	9.1	7.0	8.1	17.1	15.0	16.2
9	---	---	---	4.8	0.4	2.4	9.8	8.1	8.9	16.7	15.2	15.7
10	---	---	---	6.5	2.3	4.0	10.1	8.7	9.4	15.2	13.2	14.0
11	---	---	---	8.4	3.9	5.7	9.8	8.8	9.3	14.3	12.1	13.3
12	---	---	---	9.3	4.8	6.6	9.1	7.6	8.5	13.9	12.7	13.2
13	---	---	---	10.1	5.7	7.7	8.5	7.5	8.1	13.3	11.8	12.7
14	---	---	---	10.2	6.7	8.5	7.9	6.8	7.4	13.5	11.8	12.6
15	---	---	---	9.6	7.5	8.7	8.2	5.9	7.1	13.0	11.3	12.3
16	---	---	---	10.4	8.1	9.2	9.6	6.8	8.1	12.7	11.5	12.1
17	---	---	---	9.2	7.1	8.1	9.6	7.8	8.7	12.9	10.9	11.9
18	---	---	---	8.8	5.9	7.4	10.2	7.6	9.0	13.6	11.2	12.5
19	---	---	---	9.0	6.1	7.5	11.5	9.5	10.3	14.9	12.6	13.7
20	---	---	---	9.5	6.4	7.8	12.7	9.6	11.2	16.0	13.5	14.7
21	---	---	---	9.6	7.1	8.3	14.3	10.9	12.6	15.5	12.1	13.6
22	---	---	---	9.3	8.4	8.8	15.2	12.2	13.7	12.1	11.0	11.5
23	---	---	---	9.8	8.5	9.1	16.0	13.8	14.7	13.9	11.0	12.5
24	---	---	---	9.8	8.7	9.2	14.7	12.9	13.7	15.5	13.3	14.3
25	---	---	---	10.5	9.3	9.7	13.0	10.7	11.5	14.9	13.3	14.1
26	---	---	---	11.2	9.1	10.2	11.8	9.3	10.7	13.3	10.9	11.8
27	3.6	0.4	1.9	10.0	8.4	9.1	12.9	10.1	11.5	12.7	9.6	11.1
28	2.9	0.2	1.7	8.4	6.7	7.3	14.1	11.3	12.8	14.9	11.8	13.3
29	---	---	---	7.0	5.3	6.3	15.0	12.6	13.9	15.4	13.5	14.4
30	---	---	---	8.4	4.7	6.5	16.6	13.6	15.1	15.2	12.9	14.1
31	---	---	---	9.5	5.1	7.3	---	---	---	16.3	13.8	15.0
MONTH	---	---	---	11.2	0.4	6.4	16.6	5.9	9.9	18.5	9.6	14.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.4	14.3	15.9	23.0	20.5	21.8	24.2	21.5	22.7	23.7	20.0	21.8
2	17.2	16.0	16.5	22.3	20.5	21.5	24.7	21.5	22.9	24.0	20.7	22.3
3	16.3	15.0	15.7	22.5	20.0	21.3	25.4	21.8	23.6	24.3	20.5	22.4
4	15.8	13.9	15.1	23.5	20.3	21.9	25.7	22.6	24.1	24.3	21.0	22.7
5	14.9	12.4	13.7	23.7	21.0	22.4	26.3	22.5	24.3	23.7	22.1	23.0
6	17.3	14.3	15.7	23.3	21.3	22.3	26.6	22.6	24.6	24.7	21.8	23.2
7	18.1	15.5	16.9	22.6	20.3	21.6	26.1	23.3	24.5	24.5	21.8	23.2
8	17.8	16.1	16.9	24.0	20.5	22.2	25.7	22.3	23.9	23.7	22.1	23.0
9	16.9	15.4	16.2	23.7	21.5	22.7	25.0	22.3	23.7	23.7	21.6	22.5
10	17.7	14.9	16.3	24.9	21.3	22.9	25.4	21.5	23.4	22.6	20.3	21.4
11	19.4	17.3	18.2	24.5	22.0	23.2	25.6	21.6	23.6	22.8	20.2	21.4
12	19.4	17.1	18.4	24.7	21.5	23.0	26.1	22.5	24.1	21.6	19.6	20.5
13	19.5	17.9	18.9	25.0	22.1	23.6	26.3	22.3	24.2	21.0	18.7	19.8
14	18.8	16.6	17.7	25.7	22.3	24.1	26.1	22.3	24.2	21.5	19.0	20.2
15	17.8	15.9	16.5	27.1	22.8	24.8	25.7	22.8	24.1	21.8	19.4	20.6
16	15.9	14.1	14.9	27.5	22.6	25.0	25.2	22.5	23.7	22.1	19.8	21.0
17	16.8	14.3	15.4	28.2	23.3	25.8	24.7	21.8	23.1	21.6	20.2	20.9
18	17.9	15.0	16.5	27.9	24.2	25.9	23.7	20.5	22.0	20.7	18.6	19.9
19	17.9	16.6	17.3	27.7	23.8	25.7	23.7	20.0	21.8	18.6	16.2	17.4
20	17.6	15.0	16.4	26.6	23.8	25.3	23.5	20.2	21.9	17.3	15.0	16.2
21	19.5	16.5	18.0	26.8	23.1	24.9	24.2	20.5	22.2	17.6	15.8	16.6
22	18.8	16.9	17.8	27.0	23.5	25.2	23.8	20.5	22.1	17.9	16.0	16.8
23	17.9	16.0	17.1	27.5	23.7	25.4	22.6	20.0	21.4	17.7	15.7	16.7
24	18.9	16.9	18.0	27.0	23.8	25.2	22.5	19.0	20.8	17.7	15.5	16.6
25	18.9	17.9	18.3	27.1	23.7	25.3	23.0	19.2	21.1	16.8	15.5	16.1
26	18.4	16.9	17.7	27.5	23.5	25.4	22.0	19.8	20.9	16.5	15.2	15.7
27	17.7	15.4	16.7	26.4	24.0	25.1	22.3	18.7	20.6	16.9	14.9	15.9
28	19.7	16.1	17.9	27.5	23.8	25.4	22.8	18.9	20.8	17.6	15.5	16.5
29	21.1	18.2	19.7	26.8	23.8	25.2	23.5	19.5	21.5	17.7	15.8	16.7
30	22.3	19.7	21.0	25.9	23.1	24.2	22.1	20.3	21.3	16.9	15.8	16.5
31	---	---	---	24.0	22.2	22.9	23.0	19.5	21.3	---	---	---
MONTH	22.3	12.4	17.0	28.2	20.0	23.9	26.6	18.7	22.7	24.7	14.9	19.6

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

AVERAGE DEPTH.--0.27 m.

AVERAGE PERCENT SHADING.--20.

AVERAGE VELOCITY.--0.74 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--3.

PERCENT FINES RANGE.--0-30.

HABITAT QUALITY INDEX.--53.

REMARKS.--Heavy grazing and agricultural activity nearby.

BIOLOGICAL DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE JUL 15	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	FUNC-TIONAL FEEDING GROUP	POLLU-TION TOLER-ANCE VALUE
NON-INSECTS					
Turbellaria		4	0.36	CG	4
Oligochaeta		6	0.55	CG	8
Hirudinea		4	0.36	PR	10
Gonidea angulata		2	0.18	CF	4
EPHEMEROPTERA					
Acentrella turbida		2	0.18	CG	4
Baetis tricaudatus		298	27.19	CG	6
Diphetor hageni		2	0.18	CG	5
Heptagenia/Nixe		2	0.18	SC	2
Stenonema		8	0.73	SC	5
Tricorythodes		8	0.73	CG	4
Tricorythodes minutus		224	20.44	CG	4
TRICHOPTERA					
Brachycentrus occidentalis		54	4.93	OM	1
Cheumatopsyche		2	0.18	CF	8
Hydropsyche		102	9.31	CF	4
Hydroptila		10	0.91	PH	6
Ochrotrichia		26	2.37	PH	4
Oecetis		2	0.18	OM	8
LEPIDOPTERA					
Petrophila		8	0.73	SC	5
COLEOPTERA					
Microcylloepus		66	6.02	SC	7
Stenelmis		22	2.01	CG	5
DIPTERA					
Simulium		62	5.66	CF	6
CHIRONOMIDAE					
Chironomidae-pupae		36	3.28	UN	6
Cardiocladius		12	1.09	PR	5
Cladotanytarsus		2	0.18	CG	7
Cricotopus Bicinctus Gr.		4	0.36	CG	7
Cricotopus Trifascia Gr.		84	7.66	CG	6
Eukiefferiella		2	0.18	OM	8
Limnophyes		4	0.36	CG	8
Micropsectra		2	0.18	CG	7
Orthocladius Complex		4	0.36	CG	6
Polypedilum		18	1.64	OM	6
Rheocricotopus		4	0.36	OM	6
Rheotanytarsus		4	0.36	CF	6
Thienemanniella		2	0.18	CG	6
Thienemannimyia Gr.		4	0.36	PR	6

TOTAL NUMBER OF TAXA 35
TOTAL NUMBER OF ORGANISMS 1096/m^2
HILSENHOFF BIOTIC INDEX 5.14

EPT ABUNDANCE 740/m^2
NUMBER EPT TAXA 13
SHANNON DIVERSITY INDEX (H) 3.50

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

REACH LENGTH.--209 m.

AVERAGE WIDTH.--22 m.

HABITAT QUALITY INDEX.--53.

REMARKS.--Heavy grazing and agricultural activity nearby.

BIOLOGICAL DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE JUL 15	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	FUNC-TIONAL FEEDING GROUP	POLLU-TION TOLER-ANCE VALUE
NON-INSECTS					
Turbellaria		2	0.14	CG	4
Nematoda		2	0.14	PA	5
Oligochaeta		9	0.57	CG	8
Hirudinea		2	0.14	PR	10
Pisidium		4	0.28	CG	8
Gammarus		2	0.14	CG	6
Hyalella azteca		280	18.63	CG	8
Acari		6	0.43	PA	5
EPHEMEROPTERA					
Baetidae		6	0.43	CG	4
Acentrella turbida		2	0.14	CG	4
Baetis tricaudatus		400	26.6	CG	6
Centroptilum		15	1	CG	2
Heptagenia/Nixe		4	0.28	SC	2
Stenonema		47	3.13	SC	5
Tricorythodes		2	0.14	CG	4
Tricorythodes minutus		441	29.3	CG	4
HEMIPTERA					
Corixidae		26	1.71	UN	8
TRICHOPTERA					
Brachycentrus occidentalis		19	1.28	OM	1
Protoptila		2	0.14	SC	1
Hydropsyche		30	1.99	CF	4
Hydroptila		4	0.28	PH	6
COLEOPTERA					
Dubiraphia		4	0.28	CG	6
Microcylloepus		39	2.56	SC	7
DIPTERA					
Empididae		2	0.14	PR	6
Simulium		21	1.42	CF	6
CHIRONOMIDAE					
Chironomidae-pupae		15	1	UN	6
Corynoneura		2	0.14	CG	7
Cricotopus		2	0.14	CG	7
Cricotopus Bicinctus Gr.		19	1.28	CG	7
Cricotopus Trifascia Gr.		36	2.42	CG	6
Cryptochironomus		2	0.14	PR	8
Eukiefferiella		2	0.14	OM	8
Orthocladius Complex		11	0.71	CG	6
Paracladopelma		2	0.14	UN	7
Parametriocnemus		2	0.14	CG	5
Polypedilum		6	0.43	OM	6
Rheotanytarsus		2	0.14	CF	6
Saetheria		6	0.43	CG	4
Tanytarsus		2	0.14	CF	6
Thienemanniella		13	0.85	CG	6
Thienemannimyia Gr.		6	0.43	PR	6

TOTAL NUMBER OF TAXA	41	EPT ABUNDANCE	974
TOTAL NUMBER OF ORGANISMS	1504	NUMBER EPT TAXA	12
HILSENHOFF BIOTIC INDEX	5.67	SHANNON DIVERSITY INDEX (H)	3.12

13152500 MALAD RIVER NEAR GOODING, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-1981, July 1989 to September 1990, October 1992 to September 1997, February to September 1998, May to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1994, February to September 1998, May to September 200 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 29.0 °C Aug. 7, 1994.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 27.0 °C July 31.

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											
04...	0945	110	357	7.9	12.5	10.2	2.5	9.9	100	110	62
MAY											
02...	1230	275	400	8.4	18.0	15.4	7.3	10.0	113	--	--
JUN											
06...	0915	166	397	8.3	18.0	16.3	4.4	7.0	80	K85	110
JUL											
03...	1015	50	406	8.3	21.0	17.6	3.0	7.6	90	69	92
AUG											
17...	1030	106	418	7.8	24.5	20.6	4.5	11.0	139	K29	120
SEP											
15...	1015	208	417	8.4	21.0	18.3	<.5	9.8	118	41	100

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								
15...	170	42.1	15.1	19.4	20	3.8	180	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								
15...	146	39.1	18.0	.7	15.6	241	.33	136

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							
04...	.321	<.002	.32	.019	.008	7	2.1
MAY							
02...	<.005	.008	.54	.099	.011	39	29
JUN							
06...	<.005	.002	.49	.073	.017	21	9.4
JUL							
03...	.007	<.002	.37	.070	.036	7	.94
AUG							
17...	<.005	.015	.37	.079	.043	11	3.1
SEP							
15...	.005	.008	.42	.089	.045	9	5.1

K Results based on counts outside ideal colony range.

13152500 MALAD RIVER NEAR GOODING, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, MAY TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	18.0	13.9	16.0
4	---	---	---	17.2	14.7	15.9
5	---	---	---	16.1	14.1	15.0
6	---	---	---	16.1	13.8	14.8
7	---	---	---	15.0	13.6	14.3
8	---	---	---	16.0	12.9	14.3
9	---	---	---	16.0	13.9	14.8
10	---	---	---	15.0	13.3	14.4
11	---	---	---	13.3	11.5	12.3
12	---	---	---	13.2	10.2	11.7
13	---	---	---	14.2	11.6	13.0
14	---	---	---	16.3	13.2	14.6
15	---	---	---	17.6	14.7	16.0
16	---	---	---	16.9	15.3	16.0
17	---	---	---	17.6	14.7	16.0
18	---	---	---	18.9	15.3	17.0
19	---	---	---	18.7	15.8	17.2
20	---	---	---	19.2	15.8	17.5
21	---	---	---	19.8	16.3	18.0
22	---	---	---	20.5	17.4	18.9
23	---	---	---	20.6	17.6	19.1
24	---	---	---	21.1	17.7	19.4
25	---	---	---	20.6	18.5	19.6
26	---	---	---	20.2	17.2	18.7
27	---	---	---	20.5	16.9	18.8
28	---	---	---	20.5	18.4	19.6
29	---	---	---	20.6	18.0	19.3
30	---	---	---	20.3	17.1	18.5
31	---	---	---	18.0	15.7	17.0
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.0	14.9	16.8	26.1	20.6	23.1	26.8	23.5	25.1	19.8	17.4	18.5
2	20.8	16.1	18.4	25.6	20.5	22.9	26.8	23.6	25.0	18.4	16.9	17.5
3	21.6	17.9	19.7	23.3	20.5	21.8	26.4	23.3	24.6	18.4	16.1	17.2
4	22.6	18.5	20.5	23.1	18.5	20.7	26.4	23.1	24.4	18.9	16.6	17.7
5	22.3	19.0	20.7	23.6	18.7	21.0	25.9	22.6	24.1	18.5	16.6	17.6
6	23.0	18.9	21.0	23.1	19.0	20.9	24.3	21.8	23.2	17.9	16.1	17.0
7	23.8	19.5	21.6	24.3	19.7	22.0	25.0	21.6	23.2	18.2	15.5	16.8
8	22.3	19.7	21.2	24.9	20.3	22.5	24.9	21.5	23.2	18.2	16.0	17.2
9	20.8	17.6	19.2	24.9	20.5	22.6	25.6	21.6	23.7	17.6	15.7	16.4
10	21.3	17.1	19.1	23.1	20.6	22.0	26.1	22.8	24.3	16.6	14.4	15.6
11	19.8	17.2	18.5	25.2	19.8	22.5	24.5	21.6	23.1	17.7	15.2	16.3
12	18.9	17.7	18.2	26.3	20.8	23.6	24.5	20.2	22.3	18.9	16.0	17.3
13	19.8	16.5	18.1	26.4	21.8	24.1	24.0	20.6	22.2	19.8	17.4	18.5
14	20.6	16.6	18.6	25.9	22.0	23.9	24.2	20.2	22.1	21.0	17.9	19.4
15	20.8	18.0	19.2	25.0	21.6	23.3	24.2	20.6	22.3	21.0	18.2	19.6
16	20.5	16.6	18.5	25.0	21.0	22.9	24.0	20.2	22.1	21.3	18.4	19.8
17	21.0	16.9	19.0	25.9	22.3	23.8	24.2	20.3	22.1	21.3	19.0	20.1
18	22.1	17.9	20.0	25.6	21.6	23.4	23.6	20.8	22.2	20.3	18.5	19.5
19	21.0	18.2	19.5	25.7	21.5	23.5	23.1	20.2	21.6	20.0	17.9	18.8
20	20.6	16.6	18.6	26.3	21.8	23.9	22.1	19.7	20.9	18.5	16.3	17.4
21	22.3	16.9	19.6	26.8	21.8	24.2	21.6	18.5	20.1	17.1	15.3	16.1
22	24.5	18.7	21.2	26.8	21.5	24.2	22.1	18.5	20.4	15.3	13.9	14.6
23	24.9	19.0	22.0	25.9	22.5	23.9	21.8	19.2	20.7	14.2	12.7	13.4
24	24.2	19.7	21.8	25.4	21.3	23.4	23.6	19.7	21.5	13.6	11.5	12.6
25	24.2	19.2	21.6	25.9	21.6	23.7	24.0	20.5	22.3	13.8	11.5	12.5
26	24.3	18.9	21.4	25.7	22.0	23.8	23.1	21.0	22.1	14.2	11.8	12.9
27	25.2	19.3	21.8	26.1	21.8	23.8	23.1	20.0	21.5	14.7	12.2	13.4
28	25.0	19.7	22.2	26.3	22.0	24.1	22.5	19.7	21.0	15.5	13.2	14.2
29	25.6	20.3	22.7	26.4	22.5	24.4	22.3	19.0	20.6	15.5	13.6	14.5
30	24.9	20.5	22.5	26.1	22.8	24.4	21.8	19.7	20.7	16.1	13.9	14.9
31	---	---	---	27.0	22.5	24.7	20.0	17.9	18.9	---	---	---
MONTH	25.6	14.9	20.1	27.0	18.5	23.2	26.8	17.9	22.3	21.3	11.5	16.6

13152500 MALAD RIVER NEAR GOODING, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-1981, July 1989 to September 1990, October 1992 to September 1997, February to September 1998, May to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1994, February to September 1998, May to September 200 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 29.0 °C Aug. 7, 1994.

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

AVERAGE DEPTH.--0.98 m.

AVERAGE PERCENT SHADING.--34.

AVERAGE VELOCITY.-- 0.54 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--5.

PERCENT FINES AVERAGE.--0.

BIOLOGICAL DATA, AUGUST 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE Aug. 9	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Turbellaria		14	0.36
Ophidonais serpentina		38	0.97
Uncinais uncinata		77	1.93
Imma. Tubificid with cap. setae		10	0.24
Imma. Tubificid w/o cap. setae		34	0.85
Hirudinea		14	0.36
Pisidium		29	0.72
Sphaerium striatinum		10	0.24
Physella		19	0.48
Hyalella azteca		662	16.67
Acari		5	0.12
ODONATA			
Ophiogomphus		5	0.12
Argia		115	2.9
EPHEMEROPTERA			
Acentrella insignificans		14	0.36
Baetis tricaudatus		955	24.03
Camelobaetidius		5	0.12
Fallceon		5	0.12
Plauditus punctiventris		53	1.33
Stenonema		163	4.11
Tricorythodes		485	12.2
TRICHOPTERA			
Brachycentrus occidentalis		53	1.33
Protoptila		144	3.62
Helicopsyche borealis		5	0.12
Hydropsyche		221	5.56
Hydroptila		14	0.36
Ochrotrichia		115	2.9
Nectopsyche		24	0.6
Oecetis		34	0.85
LEPIDOPTERA			
Petrophila		101	2.54
COLEOPTERA			
Microcylloepus		355	8.94
Stenelmis		34	0.85
DIPTERA			
Empididae-pupae		10	0.24
Hemerodromia		29	0.72
Sciomyzidae		5	0.12
CHIRONOMIDAE			
Chironomidae-pupae		5	0.12
Cricotopus Trifascia group		10	0.24
Orthocladius Complex		29	0.72
Polypedilum		38	0.97
Thienemannimyia group		38	0.97

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 39
TOTAL INDIVIDUALS 3,974