

Summary of Invertebrate Data for Selected Locations
on Rose Creek and Anvil Creek, Near the Faro Mine.

007521

H and J based on genus classifications.

Key to "SAMPLING METHOD": ASS=artificial substrate sampler, CS=circular sampler, SS=serber sampler.

* sample location downstream 8 km of present location.

Dominance: DIP=Diptera, EP=Ephemeroptera, PL=Plecoptera, TR=Tricoptera, AN=Annelidae, MO=Mollusca, OTHER=misc.

R1 : u/s Station above pump house pond

FIELD	STATION 1															
SURVEY	1973	1974	1975	1976	1977	1978	1980	1981	1982	1983	1983	1984	1986	1987	1988	
AGENCY	EPS	EPS	EPS	EPS	EPS	EPS	CAMC	CAMC	CAMC	CAMC	EPS	CAMC	Curragh	EP	EP	
SAMPLING METHOD	CS	ASS	ASS	ASS	ASS	SS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	
SAMPLE FREQUENCY	3	3	3	3	3	3	2	2	2	2	3	2	3	3	3	
SAMPLE START DATE	20-Sep-73	16-Aug-74	26-Aug-75	14-Jul-76	18-Aug-77	20-Jul-78	15-Aug-80	28-Aug-81	07-Sep-82	20-Aug-83	26-Jul-83	28-Aug-84	27-Aug-86	15-Jul-87	05-Aug-88	
SAMPLE END DATE	20-Sep-73	16-Sep-74	23-Sep-75	17-Aug-76	05-Oct-77	20-Jul-78	18-Sep-80	02-Oct-81	08-Oct-82	20-Oct-83	15-Sep-83	06-Oct-84	05-Oct-86	26-Aug-87	22-Sep-88	
NO. SAMPLE DAYS	1	31	28	34	48	1	34	35	31	61	51	39	39	42	48	
TOTAL INVERT. NUMBERS	1193	25	182	137	398	74	333	2457	784	1226	2908	1736	469	374	128	
TOTAL SAMPLER VOLUME (m3)		0.0171	0.0171	0.0171	0.0171		0.0114	0.0114	0.0114	0.025	0.0171	0.025	0.0171	0.0171		
TOTAL SAMPLE AREA(m2)	0.2787					0.279										
DENSITY/m3		1462	10643	8012	23275		29211	215526	68772	49040	170058	69440	27427	21871		
DENSITY/m2	4281					265										
DOMINANCE 1	DIP	AN	PL	PL	PL	DIP	DIP	DIP	DIP	EP	DIP	EP	EP	PL		
%	53.8	60	52.2	65.7	64.8	78.4	49.8	47.7	41.6	51.4	54.5	52.1	41.8	36.9		
DOMINANCE 2	PL	TR	DIP	DIP	DIP	PL	EP	PL	PL	DIP	EP	PL	PL	DIP		
%	43.5	16	47.3	32.8	32.2	18.9	26.1	25.1	28.7	27.9	24.8	22.9	28.4	30.5		
DOMINANCE 3	OTHER	DIP	OTHER	TR	EP	EP	PL	EP	EP	PL	PL	DIP	DIP	EP		
%	1.3	12	0.5	1.5	1.8	2.7	17.4	23.4	22.6	19	15.6	20.6	26.4	26.6		
DOMINANCE 4	EP	PL		TR			TR	OTHER	AN	OTHER	MO	OTHER	OTHER	MO		
%	0.6	12		1			5.1	2.1	2.6	0.6	1.5	2.8	1.7	4.3		
STRESSED POPULATION	7	8	9	10	11	12	1	2	3	4	13	5	6	14	15	
UNSTRESSED POPULATION	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
DIVERSITY	0.685448054	0.63876400	0.63726538	0.75771295	0.73196761	0.45733880	1.207075620	0.9611849	1.1133313926	0.8256904633	1.0648346736	0.828818595	0.8011487	1.2573506	0.3	
EVENNESS	0.598055394	0.91386468	0.70564992	0.64426374	0.55359017	0.50641553	0.809378184	0.6715168	0.7210377786	0.5485768695	0.5917916283	0.524640588	0.5967932	0.8353657	0.9	

no mill discharge

Summary of Invertebrate Data for Select
on Rose Creek and Anvil Creek, Near the

Anvil Creek
R5 - d/s after mixing @ Rose Cr.

H' and J' based on genus classification

Key to "SAMPLING METHOD": ASS=artificial
* sample location downstream 8 km of pr
Dominance: DIP=Diptera, EP=Ephemeropter

R5

FIELD	STATION B															
SURVEY	1973	1974	1975	1976	1977	1978	1980	1981	1982	1983	1983	1984	1986	1987		
AGENCY	EPS*	EPS*	EPS*	EPS*	EPS*	EPS*	CAMC	CAMC	CAMC	CAMC	EPS	CAMC	Curraigh	EP		
SAMPLING METHOD		ASS	ASS	ASS	ASS	SS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS		
SAMPLE FREQUENCY		3	3	3	3	3	2	2	2	2	3	2	3	3		
SAMPLE START DATE		16-Aug-74	26-Aug-75	14-Jul-76	18-Aug-77	20-Jul-78	15-Aug-80	28-Aug-81	07-Sep-82	20-Aug-83	26-Jul-83	28-Aug-84	14-Jul-86	15-Jul-87	05-Aug	
SAMPLE END DATE		16-Sep-74	23-Sep-75	17-Aug-76	05-Oct-77	20-Jul-78	18-Sep-80	02-Oct-81	08-Oct-82	20-Oct-83	15-Sep-83	06-Oct-84	27-Aug-86	26-Aug-87	22-Sep	
NO. SAMPLE DAYS		31	28	34	48	1	34	35	31	61	51	39	44	42		
TOTAL INVERT. NUMBERS		24	466	190	226	325	434	4126	777	2401	NO DATA	161	4702	2226	42	
TOTAL SAMPLER VOLUME (m3)		0.0171	0.0171	0.0171	0.0171		0.0114	0.0114	0.0114	0.025	0.0171	0.025	0.0171	0.0171		
TOTAL SAMPLE AREA (m2)						0.279										
DENSITY/m3		1404	27251	11111	13216		38070	361930	68158	96040		6440	274971	130175		
DENSITY/m2						1344					0					
DOMINANCE 1		DIP	PL	DIP	PL	DIP	DIP	EP	PL	EP		EP	PL	DIP		
%		91.7	94.8	52.6	61.9	98.1	46.3	51.8	80.6	58.7		57.1	45.7	52.5		
DOMINANCE 2		PL	DIP	PL	DIP	PL	PL	DIP	EP	PL		PL	DIP	PL		
%		8.3	4.5	42.1	19.5	1.3	37.1	30.5	9.5	30.3		35.4	36.4	33.1		
DOMINANCE 3			EP	EP	TR	EP	EP	PL	DIP	DIP		DIP	EP	EP		
%			0.4	4.7	9.3	0.3	12.4	17.2	6.6	10.3		6.2	11.4	12.8		
DOMINANCE 4			TR	OTHER	EP	OTHER	OTHER	TR	OTHER	TR		OTHER	TR	TR		
%			0.2	0.5	8.4	0.3	2.3	0.2	2.1	0.8		1.2	4.3	1.1		
STRESSED POPULATION		67	68	69	70	71	61	62	63	64	72	65	66	73		
UNSTRESSED POPULATION																
DIVERSITY		0.601876265	0.257915701	0.809683748	0.777486130	0.435404019	0.996186878	0.792674766	0.697737510	0.797639323		0.83128462	1.004129441	0.834232351		
EVENNESS		0.712196972	0.270283181	0.726862588	0.631871926	0.379891256	0.765690938	0.553789879	0.519759924	0.520829450		0.675594578	0.645201971	0.531967500		

no mill discharge