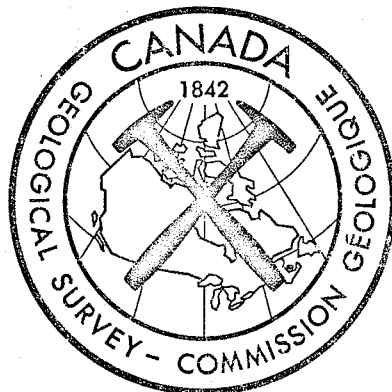


This document was produced
by scanning the original publication.
Ce document a été produit par
numérisation de la publication originale.

CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES

Geological Survey of Canada



GEOCHEMICAL ORIENTATION SURVEYS FOR URANIUM IN
SOUTHERN BRITISH COLUMBIA 1975

by

S. B. Ballantyne

OPEN FILE 341

OTTAWA
1976

STREAM SEDIMENTS MINUS 80 MESH FRACTION FUKI DONEN AREA

REFER TO MAPS A I and A II

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	-80 MEDIA	PPM ZN	PPM CU	PPM PB	PPM AG	PPM NI	PPM CO	PPM MO	FPM MN	% FE	PPM U
82E07	750202	CRYSTAL CK	SMSM	55	32	12	0.2	8	5	2.1	719	2.7	2.9
82E07	750204	BEAVER CK	SMSM	62	13	16	0.2	12	4	1.9	609	2.7	5.6
82E07	750206	MOSHER CK	SMSM	50	20	12	0.2	9	1	1.5	229	2.2	6.7
82E07	750208	SPOUT CK	SMSM	49	17	18	0.2	14	5	2.0	402	2.2	3.2
82E07	750210	DEAR CK	SMSM	77	200	25	0.2	125	30	3.2	950	5.8	6.7
82E07	750212	STEWARTSON CK	SMSM	53	30	18	0.2	54	13	2.3	757	4.0	3.9
82E07	750214	BEAVER CK	SMSM	81	9	13	0.2	13	3	1.4	191	2.7	5.6
82E10	750202	SAGE CK	SMSM	38	26	20	0.2	39	7	1.7	625	3.5	6.9
82E10	750204	TRIB BEAVER CK	SMSM	50	20	20	0.2	15	5	2.1	370	2.4	6.8
82E10	750206	BEAVER CK	SMSM	44	21	18	0.2	21	12	3.0	918	4.0	10.4
82E10	750208	MALONEY CK	SMSM	24	6	16	0.2	7	4	2.0	705	2.6	10.7
82E10	750210	DEAR CK	SMSM	37	32	14	0.5	19	4	2.3	561	2.6	25.5
82E10	750212	DEAR CK	SMSM	53	41	15	0.5	46	11	3.3	619	4.0	32.2
82E10	750214	DEAR CK	SMSM	12	7	18	0.2	12	4	1.0	290	2.4	6.2
82E10	750216	FROM CUP LK	SMSM	44	12	21	0.2	9	5	2.1	591	2.3	18.9
82E10	750218	COPPERKETTLE N BR	SMSM	37	20	22	0.2	13	9	2.7	1351	4.4	16.4
82E10	750220	COPPERKETTLE S BR	SMSM	34	15	16	0.2	9	6	2.0	874	3.2	11.0
82E10	750222	BARTH CK	SMSM	34	12	20	0.2	14	6	1.2	455	3.0	4.2
82E10	750224	TRIB STATE CK	SMSM	30	37	14	0.2	25	4	2.0	333	2.3	3.6
82E10	750226	STATE CK	SMSM	23	31	16	0.2	19	7	0.5	578	4.0	6.0
82E10	750228	BIRCHED CK	SMSM	46	26	13	0.2	30	8	2.1	224	2.3	8.5
82E10	750230	TRIB DEAR CK	SMSM	54	111	13	0.5	23	4	2.3	334	2.1	67.4
82E10	750232	DEAR CK	SMSM	48	137	16	0.2	35	7	2.5	767	3.5	40.0
82E10	750234	TRIB OF DEAR CK	SMSM	44	19	18	0.2	24	9	2.3	870	3.5	8.2
82E10	750236	INTO LASSIE LK	SMSM	58	31	15	0.2	23	5	2.5	541	3.4	20.7
82E10	750238	FROM JOAN TO CLARK	SMSM	58	18	19	0.2	23	6	5.5	1141	3.9	29.6
82E10	750240	SANDDRIFT CK	SMSM	66	14	18	0.2	12	19	3.7	1800	4.0	13.9
82E10	750242	INTO SANDDRIFT LK#2	SMSM	12	7	22	0.2	3	7	2.9	1151	2.4	9.8
82E10	750244	STATE CREEK	SMSM	12	9	10	0.2	6	4	0.5	409	3.4	6.9
82E10	750246	BEAVER CK	SMSM	43	13	10	0.2	41	7	1.8	732	3.1	9.0
82E10	750248	BEAVER CK	SMSM	37	45	15	0.6	29	4	2.0	539	2.7	28.5
82E10	750250	BEAVER CK	SMSM	25	47	13	0.2	6	1	1.3	106	1.5	12.7
82E10	750254	DEAR CK	SMSM	40	31	21	0.2	29	11	2.4	1100	4.0	12.1
82E10	750258	DEAR CK	SMSM	37	31	15	0.2	41	7	2.5	1148	3.6	39.0

LAKE SEDIMENTS MINUS 80 MESH FRACTION FUKI DCNEN AREA

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	-80 MEDIA	PPM ZN	PPM CU	PPM PB	PPM AG	PPM NI	PPM CO	PPM MO	PPM MN	% FE	PPM U
82E10	750001	LOWER COLLIER	LKSM	174	29	18	0.2	17	5	4.2	320	1.7	41.2
82E10	750002	LOWER COLLIER	LKSM	142	34	18	0.7	20	5	5.9	374	2.1	54.9
82E10	750003	UPPER COLLIER	LKSM	92	30	10	0.2	14	4	2.7	50	1.2	26.8
82E10	750004	UPPER COLLIER	LKSM	91	21	11	0.2	12	3	3.2	249	1.2	24.2
82E10	750005	CUP LAKE	LKSM	146	31	18	0.2	18	5	7.5	422	2.2	12.5
82E10	750006	CUP LAKE	LKSM	122	16	20	0.2	12	4	3.2	159	1.0	14.9
82E10	750007	CUP LAKE	LKSM	111	22	11	0.2	14	7	2.9	186	1.3	16.9
82E10	750008	LASSIE LAKE	LKSM	108	54	9	0.2	28	10	3.7	528	2.4	63.1
82E10	750009	LASSIE LAKE	LKSM	78	40	6	0.2	23	6	3.5	253	1.6	41.7
82E10	750010	LASSIE LAKE	LKSM	95	35	6	0.2	19	6	3.4	287	1.5	38.0
82E10	750011	JOAN LAKE	LKSM	111	51	11	0.2	15	6	10.4	180	1.8	42.9
82E10	750012	JOAN LAKE	LKSM	176	25	12	0.2	10	6	4.8	254	1.7	34.2
82E10	750013	JOAN LAKE	LKSM	124	20	20	0.2	10	6	5.5	306	1.9	38.6
82E10	750014	JOAN LAKE	LKSM	129	28	9	0.2	10	5	5.2	50	1.2	31.6
82E10	750015	CLARK LAKE	LKSM	134	40	10	0.2	17	8	8.5	349	2.0	35.2
82E10	750016	CLARK LAKE	LKSM	139	35	11	0.2	13	7	6.7	287	1.7	34.3
82E10	750017	MALONEY LAKE	LKSM	72	25	4	0.2	18	8	3.6	50	1.9	9.8
82E10	750018	MALONEY LAKE	LKSM	93	25	6	0.2	18	7	4.0	50	2.0	11.9
82E10	750019	BUCK LAKE	LKSM	104	46	12	0.2	42	8	4.0	227	1.5	14.8
82E10	750020	SANDDRIFT #3 LK	LKSM	86	22	5	0.2	9	3	3.5	50	1.1	7.6
82E10	750021	SANDDRIFT #2 LK	LKSM	131	29	9	0.2	10	14	7.5	681	3.8	9.0
82E10	750022	SANDDRIFT #2 LK	LKSM	105	27	9	0.2	10	6	4.4	392	1.7	13.7
82E10	750023	STATE LAKE	LKSM	109	83	10	0.2	14	9	4.9	546	2.4	31.4
82E10	750024	STATE LAKE	LKSM	112	68	11	0.2	12	5	5.3	338	2.4	19.0
82E10	750025	STATE LAKE	LKSM	108	70	9	0.2	11	6	4.0	275	2.0	30.8

REFER TO MAPS A I and A II

The organic carbon content of a lake sediment sample is proportional to its loss on ignition (Coker and Nichol, 1975). Loss on ignition (L.O.I) of these lake sediment samples was found to range between 29 and 44 per cent.

STREAM AND LAKE WATERS FUKI DONEN AREA

REFER TO MAPS A III and A IV

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	MEDIA	PH	PPB U	PPB F	PPM HCO ₃	ROCK SAMPLE #	PPM U	PPM Th	PPM F
82E07	750215	BEAVER CK	SRMW	7.94	1.60	610		303	5.5	50.5	1400
82E07	750216	CRYSTAL CK	SRMW	7.37	1.32	610		304	14.4	68.5	1200
82E10	750251	LASSIE LAKE	SRMW	7.12	0.38	326		306	409.0		510
82E10	750252	CUP LAKE	SRMW	6.79	0.32	570					
82E10	750255	DEAR CK	SRMW	7.47	0.62	388					
82E10	750256	UPPER COLLIER LK	SRMW	6.99	0.40	600	88				
82E10	750259	DEAR CK	SRMW	7.47	1.00	328					
82E10	750262	TRIB OF DEAR	SRMW	7.15	0.76	336					
82E10	750263		SRMW	6.91	0.32	200					
82E10	750264	MALONEY CK	SRMW	7.43	0.22	342					
82E10	750265	BEAVER CK	SRMW	7.38	0.90	344					

Rock sample# 306 is taken from the reduced layer at the Fuki discovery outcrop.

STREAM SEDIMENTS MINUS 80 MESH FRACTION EUGENE CREEK

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	-80 MEDIA	PPM ZN	PPM CU	PPM PB	PPM AG	PPM NI	PPM CO	PPM MO	PPM MN	% FE	PPM U	REFER TO MAPS B I and B II Loss on (L.O.I.) ignition F ppm
82E06	750202	EUGENE CK	SMSM	109	35	20	0.2	16	13	4.2	1800	5.4	8.1	
82E06	750205	TRIB OF EUGENE CK	SMSM	106	45	22	0.2	8	5	3.2	567	3.8	94.0	27%
82E06	750207	EUGENE CK	SMSM	88	39	16	0.2	14	10	3.2	1274	4.5	7.5	396
82E06	750209	TRIB OF EUGENE CK	SMSM	81	34	14	0.2	12	9	2.6	864	3.8	5.6	
82E06	750212	EUGENE CK	SMSM	114	36	16	0.2	10	12	4.2	1800	5.0	11.5	
82E06	750214	GLADYS CK	SMSM	99	42	20	0.2	22	10	3.6	1053	5.1	17.9	
82E06	750216	EUGENE CK	SMSM	84	32	18	0.2	10	7	2.2	1037	4.3	12.3	
82E06	750219	TUSO CK	SMSM	60	8	12	0.2	27	1	1.5	304	3.0	7.9	
82E06	750222	TUSO CK	SMSM	99	12	17	0.2	13	5	3.1	559	3.3	7.3	
82E06	750225		SMSM	52	19	16	0.2	9	8	3.0	735	3.2	4.8	
82E06	750230		SMSM	84	25	15	0.2	15	4	2.9	678	2.9	63.4	
82E06	750233	INTO DALE LK	SMSM	61	17	18	0.2	11	6	3.6	1511	5.2	24.6	
82E06	750238	EUGENE CK	SMSM	144	41	24	0.2	11	10	3.6	1486	5.6	8.9	52%
82E06	750242	TRIB OF EUGENE CK	SMSM	49	33	13	0.2	4	1	2.5	50	1.8	385.0	240

LAKE SEDIMENTS MINUS 80 MESH FRACTION EUGENE CREEK

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	-80 MEDIA	PPM ZN	PPM CU	PPM PB	PPM AG	PPM NI	PPM CO	PPM MO	PPM MN	% FE	PPM U	REFER TO MAPS B I and B II Loss on ignition (L.O.I.)
82E06	750001	DALE LAKE	LKSM 88	32	8	0.2	4	3	4.8	50	1.2	84.6	48%	
82E06	750002	DALE LAKE	LKSM 131	47	8	0.2	6	5	7.3	50	1.5	116.0	56%	
82E06	750003	SWAMP EUGENE CK	LKSM 137	47	21	0.2	8	8	4.6	514	3.1	50.8	37%	
82E06	750004	SAUNIER LAKE	LKSM 104	44	6	0.2	1	1	8.0	122	2.2	22.3		
82E06	750005	SAUNIER LAKE	LKSM 52	26	1	0.2	1	1	6.4	187	1.8	18.6		
82E06	750007	HEART LK	LKSM 59	35	6	0.2	3	1	2.8	50	0.8	96.7	74%	

STREAM AND LAKE WATERS EUGENE CREEK

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	MEDIA	PH	PPB U	PPB F	PPM HCO ₃	ROCK SAMPLE #	PPM U	PPM Th	PPM F
82E06	750203	EUGENE CK	SRMW	8.90	1.06	710					
82E06	750210	TRIB OF EUGENE CK	SRMW	8.34	2.20	230					
82E06	750217	EUGENE CK	SRMW	8.73	10.40	440					
82E06	750220	TUSO CK	SRMW	7.75	0.72	500		300	7.5	16.5	440
82E06	750226		SRMW	7.33	0.38	245		301	6.1	17.4	500
82E06	750228	HEART LAKE	SRMW	6.97	0.60	281					
82E06	750231		SRMW	7.55	6.00	595					
82E06	750234	INTO DALE LK	SRMW	7.62	6.80	518					
82E06	750235	INTO DALE LK	SRMW	7.38	1.60	551					
82E06	750236	DALE LAKE	SRMW	6.95	0.96	745					
82E06	750239	EUGENE CK	SRMW	7.36	0.76	760					
82E06	750240	EUGENE CK	SRMW	7.77	9.20	550	145				
82E06	750243	TRIB OF EUGENE	SRMW	7.22	22.00	750					
82E06	750245	TRIB OF EUGENE	SRMW	7.65	20.00	750	111				
82E06	750247	EUGENE CK	SRMW	7.23	8.00	390					
82E06	750250	SAUNIER LAKE	SRMW	7.93	9.60	380					
82E06	750251	EUGENE CK	SRMW	8.30	6.80	437	139				
82E06	750252	TUSO CK	SRMW	7.77	5.20	560					

REFER TO MAPS B III and B IV

STREAM SEDIMENTS MINUS 80 MESH FRACTION GRAND FORKS

REFER TO MAPS C I and C II

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	-80 MEDIA	PPM ZN	PPM CU	PPM PB	PPM AG	PPM NI	PPM CO	PPM MO	PPM MN	% FE	PPM U
82E01	751002	TORONTO CK	SMSM	72	14	23	0.2	28	5	2.4	731	2.4	12.4
82E01	751003	SPRING INTO TORON	SMSM	45	19	19	0.2	22	4	2.0	392	2.0	30.1
82E01	751005	TRIB OF TORONTO	SMSM	72	21	21	0.2	26	7	2.5	701	2.9	5.9
82E01	751007	VOLCANIC CK	SMSM	59	16	19	0.2	29	6	2.3	493	2.7	4.1
82E01	751009	TRIB OF VOL	SMSM	121	42	24	0.2	29	6	2.6	1044	3.7	9.2
82E01	751011	TRIB OF VOLG	SMSM	115	88	45	1.0	20	6	2.6	762	2.9	18.2
82E01	751013	TRIB OF VOL	SMSM	81	51	30	0.2	22	7	2.4	885	3.4	14.4
82E01	751015	TRIB OF VOL	SMSM	104	35	28	0.2	24	9	2.3	713	3.5	7.2
82E01	751017	VOLCANIC CK	SMSM	53	10	24	0.2	33	6	2.7	728	3.5	5.1
82E01	751019	TRIB OF VOL	SMSM	61	43	24	0.2	23	6	2.6	615	2.7	10.4
82E01	751021	TRIB OF VOL	SMSM	61	40	22	0.2	21	4	2.0	354	2.8	9.4
82E01	751023	TRIB OF VOL	SMSM	101	62	25	0.2	29	6	2.7	694	3.5	11.0
82E01	751025	TRIB OF VOL	SMSM	83	37	23	0.2	25	6	2.7	645	3.8	8.6
82E01	751027	VOLCANIC CK	SMSM	95	20	24	0.2	16	6	2.7	560	2.6	11.8
82E01	751029	TRIB OF VOL	SMSM	132	34	31	0.2	20	9	3.0	990	2.5	9.5
82E01	751031	TRIB OF TREADMILL	SMSM	79	20	27	0.2	20	10	3.0	1011	3.0	19.9
82E01	751033	TRIB OF TREADMILL	SMSM	60	12	22	0.2	18	9	2.8	699	3.1	9.0
82E01	751035	TRIB OF TREADMILL	SMSM	95	20	30	0.6	26	10	3.1	1032	3.5	28.7
82E01	751037	TRIB OF TREADMILL	SMSM	64	16	23	0.2	25	7	2.5	682	3.1	9.3
82E01	751039	MILLER CK	SMSM	56	12	22	0.2	14	3	2.0	577	2.8	7.3
82E01	751041	PATHFINDER CK	SMSM	68	107	25	0.2	25	9	2.0	460	2.5	3.6
82E01	751043	TORONTO CK	SMSM	78	20	22	0.2	28	7	2.3	808	3.1	7.7
82E01	751045	SNOWBALL CK	SMSM	77	13	17	0.2	41	14	3.5	456	5.9	19.0
82E01	751047	S OF SAND	SMSM	74	103	18	0.2	22	3	2.3	601	2.9	2.9
82E01	751049	SAND CK	SMSM	48	18	12	0.2	25	6	2.2	566	3.0	5.0
82E01	751051	SAND CK	SMSM	73	11	15	0.2	14	9	2.3	914	4.7	6.0
82E01	751053	TRIB OF TORONTO	SMSM	123	53	16	0.2	21	8	2.0	822	5.9	4.7
82E01	751055	TRIB OF TORONTO	SMSM	79	46	24	0.2	35	6	2.7	691	3.1	7.5
82E01	751057	TRIB OF TORONTO	SMSM	61	24	19	0.2	17	6	2.0	766	2.4	4.7
82E01	751059	TORONTO CK	SMSM	57	13	16	0.2	19	5	2.2	383	2.9	8.8
82E01	751062	TRIB OF TORONTO	SMSM	88	34	23	0.2	30	10	2.7	754	2.8	8.3
82E01	751064	TRIB OF MILLER CK	SMSM	71	18	22	0.2	18	5	2.3	524	3.4	10.0
82E01	751066	TRIB OF MILLER CK	SMSM	142	42	26	0.2	19	5	2.5	557	2.6	7.7
82E01	751068	TRIB OF MILLER CK	SMSM	188	76	58	0.2	22	9	2.8	1004	3.6	5.6
82E01	751070	TRIB OF MILLER	SMSM	78	22	27	0.2	19	8	2.2	697	3.6	7.7
82E01	751073	CAMERON CK	SMSM	85	17	20	0.2	13	8	1.8	460	3.1	10.2
82E01	751076	MILLER CK	SMSM	78	21	23	0.2	16	6	1.8	525	3.5	24.7
82E01	751080	CAMERON CK	SMSM	87	33	31	0.2	22	6	3.0	1586	3.1	10.7
82E01	751082	THOMAS CK	SMSM	60	15	20	0.2	12	6	2.0	619	2.9	8.2
82E01	751084	TRIB OF CAMERON	SMSM	100	24	21	0.2	18	7	2.4	800	3.6	14.3
82E01	751086	MILLER CK	SMSM	75	15	34	0.2	22	8	2.8	880	4.6	9.3
82E01	751089	MILLER CK	SMSM	60	18	25	0.2	11	5	1.6	520	3.7	8.4
82E01	751092	SNOWBALL CK	SMSM	76	15	20	0.2	15	7	2.2	1021	3.3	13.9
82E01	751095	SNOWBALL CK	SMSM	137	24	23	0.2	17	5	1.9	409	2.7	8.9
82E01	751098	TRIB OF SNOWBALL	SMSM	75	18	23	0.2	16	7	1.8	630	3.6	5.6
82E01	751100	TRIB OF SNOWBALL	SMSM	129	84	23	0.2	39	7	3.1	1268	3.1	18.5
82E01	751102	SNOWBALL CK	SMSM	59	15	21	0.2	21	7	2.4	918	3.5	8.8
82E01	751105	TRIB OF SNOWBALL	SMSM	41	15	19	0.2	14	7	2.3	804	2.9	12.6
82E01	751108	SNOWBALL CK	SMSM	70	11	20	0.2	21	7	2.0	1247	3.9	8.9

STREAM SEDIMENTS MINUS 80 MESH FRACTION GRAND FORKS

REFER TO MAPS C I and C II

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	-80 MEDIA	PPM ZN	PPM CU	PPM PB	PPM AG	PPM NI	PPM CO	PPM MO	PPM MN	% FE	PPM U
82E01	751111	SNOWBALL CK	SMSM	67	18	20	0.2	18	7	2.4	1141	3.2	11.0
82E01	751114	TRIB OF SNOWBALL	SMSM	67	24	17	0.2	26	9	2.0	919	3.7	9.8
82E01	751116	OVERTON CK	SMSM	92	73	21	0.2	19	6	1.9	711	3.1	11.7
82E01	751119	HULL CK	SMSM	91	48	17	0.2	26	8	1.9	623	4.0	5.4
82E01	751121	TRIB OF SAND	SMSM	68	9	11	0.2	20	8	1.5	500	3.8	3.7
82E01	751123	SAND CREEK	SMSM	50	9	16	0.2	15	8	2.1	836	2.9	6.0
82E01	751126	TRIB OF SAND CK	SMSM	62	53	16	0.2	22	6	2.3	732	3.7	6.7
82E01	751129	SAND CK	SMSM	40	11	15	0.2	18	7	2.5	878	3.8	5.3
82E01	751132		SMSM	66	15	20	0.2	29	11	1.9	831	3.5	6.9
82E01	751134		SMSM	77	23	31	0.2	33	17	2.7	1486	3.9	11.4
82E01	751137		SMSM	80	24	28	0.2	19	6	2.3	675	2.6	10.6
82E01	751143	TREADMILL CK	SMSM	99	19	26	0.2	24	11	2.0	1170	4.8	9.1
82E01	751146	SANDER CK	SMSM	99	11	15	0.2	19	8	2.3	860	4.3	6.5
82E01	751149	TROY CK	SMSM	133	37	33	0.2	33	18	3.2	1198	4.5	13.9
82E01	751152		SMSM	75	26	40	0.2	22	16	2.8	1025	4.1	27.2
82E01	751154	SEGGIE CK	SMSM	178	57	52	0.2	24	14	2.9	919	4.0	17.8
82E01	751155	RED OCHRE CK	SMSM	109	79	48	0.2	23	8	6.1	860	11.5	13.8
82E01	751158		SMSM	115	34	31	0.2	32	12	3.5	1194	5.0	12.9
82E01	751161	PARSON CK	SMSM	105	40	33	0.2	31	17	2.5	827	4.4	7.0
82E01	751163	TREADMILL CK	SMSM	104	18	26	0.2	21	7	2.2	645	3.2	7.3
82E01	751171		SMSM	142	32	31	0.6	34	12	2.9	969	3.9	33.6
82E01	751174	MORRISSEY CK	SMSM	51	10	13	0.2	17	8	2.3	806	3.7	4.9

STREAM WATERS GRAND FORKS

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	MEDIA	PH	PPB U	ROCK SAMPLE #	PPM U	PPM Th	PPM F
82E01	751060	TORONTO CK	SRMW	8.17	0.80	201	11.3	10.2	61
82E01	751071	TRIB OF MILLER	SRMW	8.16	0.48	202	961.0	33.3	2100
82E01	751074	CAMERON CK	SRMW	7.85	0.20	205	615.0	16.2	68
82E01	751077	MILLER CK	SRMW	7.83	0.32	206	5.2	44.0	135
82E01	751078	ZENJA LAKE	SRMW	7.84	0.04	208	19.4	3.5	150
82E01	751087	MILLER CK	SRMW	7.95	0.20	209	145.0	19.0	18
82E01	751090	MILLER CK	SRMW	8.14	0.68				
82E01	751093	SNOWBALL CK	SRMW	8.14	0.46				
82E01	751096	SNOWBALL CK	SRMW	8.14	0.28				
82E01	751103	SNOWBALL CK	SRMW	8.09	0.26				
82E01	751106	TRIB OF SNOWBALL	SRMW	8.09	0.32				
82E01	751109	SNOWBALL CK	SRMW	8.11	0.28				
82E01	751112	SNOWBALL CK	SRMW	8.23	0.32				
82E01	751117	OVERTON CK	SRMW	8.37	1.44				
82E01	751124	SAND CREEK	SRMW	8.15	0.42				
82E01	751127	TRIB OF SAND CK	SRMW	8.48	2.40				
82E01	751130	SAND CK	SRMW	7.90	0.16				
82E01	751135		SRMW	7.82	0.02				
82E01	751138		SRMW	7.95	0.02				
82E01	751139		SRMW	8.17	0.48				
82E01	751140	TRIB OF TREADMILL	SRMW	8.07	0.52				
82E01	751141	TRIB OF TREADMILL	SRMW	7.96	0.02				
82E01	751144	TREADMILL CK	SRMW	8.22	0.62				
82E01	751147	SANDER CK	SRMW	8.00	0.12				
82E01	751150	TROY CK	SRMW	7.91	0.02				
82E01	751156	REDOCHRE CK	SRMW	8.35	0.16				
82E01	751159		SRMW	8.25	0.36				
82E01	751164	TREADMILL CK	SRMW	8.15	0.56				
82E01	751169		SRMW	7.64	0.24				
82E01	751170		SRHW	8.02	0.22				
82E01	751172	MORRISSEY CK	SRMW	8.28	1.12				
82E01	751175	TRIB OF MORRISSEY	SRMW	8.52	3.20				
82E01	751176	TRIB OF MORRISSEY	SRMW	8.35	1.28				
82E01	751177	SNOWBALL CK	SRMW	8.19	3.60				

Stream water sample #751177 contains 450 ppb Fluorine.

HORSETHIEF AND FORSTER CREEK AREA STREAM SEDIMENTS
MINUS 100 MESH, PLUS 200 MESH FRACTION BALL MILLED TO MINUS 200 MESH

REFER TO MAPS D I and D II

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	-100 MEDIA	PPM ZN	PPM CU	PPM PB	PPM AG	PPM NI	PPM CO	PPM MO	PPM MN	PPM FE	%	PPM U
82K07	753001	HORSETHIEF CK	SMSM	106	51	35	0.2	57	28	4.2	1189	5.5		2.9
82K07	753004	TRIB OF HORSE	SMSM	85	48	30	0.2	44	28	3.5	622	4.6		5.2
82K07	753007	HORSECHIEF	SMSM	114	139	61	0.2	95	54	3.2	1148	8.5		4.7
82K07	753010	HORSECHIEF CK	SMSM	121	108	57	0.2	93	68	3.8	977	8.6		4.3
82K07	753019	FARNHAM CK	SMSM	73	36	25	0.2	25	27	2.7	501	3.7		3.7
82K09	753042	HORSETHIEF CK	SMSM	79	88	27	0.2	47	28	2.7	743	5.4		4.2
82K09	753045	STOCKDALE CK	SMSM	123	48	51	0.2	56	26	3.2	1252	6.0		4.2
82K09	753057	TRIB OF FORSTER	SMSM	58	5	19	0.2	13	2	2.9	400	2.1		122.0
82K09	753061	FORSTER CK	SMSM	31	1	30	0.2	9	3	4.2	911	15.0		335.0
82K09	753064	FORSTER CK	SMSM	35	1	22	0.2	7	1	1.3	203	3.9		72.9
82K09	753067	TRIB OF FORSTER	SMSM	33	1	20	0.2	1	1	3.7	50	2.0		49.6
82K09	753070	TRIB OF TRIB	SMSM	42	1	18	0.2	3	1	2.2	260	4.2		86.3
82K09	753073	TRIB OF FORSTER	SMSM	64	4	27	0.2	2	1	2.6	395	3.6		136.0
82K09	753076	FORSTER CK	SMSM	46	1	16	0.2	1	1	1.3	50	1.8		30.4
82K09	753079	TRIB OF FORSTER	SMSM	87	7	53	0.2	5	4	4.4	813	3.6		292.0
82K09	753082	FORSTER CK	SMSM	51	1	17	0.2	2	1	1.2	50	1.7		65.6
82K09	753085	TRIB OF FORSTER	SMSM	65	4	17	0.2	15	1	1.9	171	2.4		18.3
82K09	753088	TRIB OF FORSTER	SMSM	35	7	14	0.2	24	2	1.0	50	2.3		18.3
82K09	753091	FORSTER CK	SMSM	51	1	18	0.2	5	1	1.3	50	3.1		64.1
82K09	753095	TRIB OF FORSTER	SMSM	60	15	21	0.2	11	5	2.4	628	3.4		17.7
82K09	753098	FORSTER CK	SMSM	50	2	26	0.2	1	1	1.7	115	1.7		30.5
82K09	753101	FAK CK	SMSM	119	51	91	0.2	29	25	2.7	443	4.6		5.8
82K09	753104	HORSETHIEF CK	SMSM	112	89	44	0.2	63	63	3.7	1104	7.7		7.2
82K09	753106	MACDONALD CK	SMSM	84	63	70	0.7	31	29	2.6	280	4.8		4.6
82K09	753109	MACDONALD CK	SMSM	137	53	58	0.2	31	21	3.6	339	5.0		4.9
82K09	753111	HORSETHIEF CK	SMSM	97	105	25	0.2	62	33	3.0	810	6.2		5.0
82K09	753113	HORSETHIEF CK	SMSM	101	53	31	0.2	47	25	2.3	739	5.7		6.4
82K09	753116	MACDONALD CK	SMSM	92	65	61	0.5	30	19	2.5	284	4.8		4.4
82K09	753119	TRIB OF HORSE	SMSM	62	52	13	0.2	28	19	3.2	703	4.2		2.9
82K09	753121	HORSETHIEF CK	SMSM	122	64	29	0.2	43	21	2.9	976	5.4		4.2
82K09	753124	GOPHER CK	SMSM	61	52	17	0.2	31	16	2.6	885	4.4		3.5
82K09	753127	HORSETHIEF CK	SMSM	83	43	22	0.2	41	19	2.1	762	5.0		4.1
82K09	753129	HORSETHIEF CK	SMSM	102	41	21	0.2	45	20	2.4	597	4.9		3.3
82K09	753132	TRIB OF FORSTER	SMSM	63	36	22	0.2	26	17	2.6	842	4.0		6.0
82K09	753135	FORSTER CK	SMSM	39	2	18	0.2	2	1	1.7	282	3.5		79.8
82K09	753138	TRIB OF FORSTER	SMSM	73	43	28	0.2	42	22	2.3	1068	4.7		5.3
82K09	753141	FORSTER CK	SMSM	41	2	28	0.2	4	1	1.8	271	3.9		66.9
82K09	753144	TRIB OF FORSTER	SMSM	73	37	23	0.2	38	19	2.4	758	4.2		3.7
82K09	753147	TRIB OF FORSTER	SMSM	62	21	16	0.2	22	10	1.9	321	3.1		5.9
82K09	753150	FORSTER CK	SMSM	33	2	19	0.2	4	1	1.8	253	6.5		126.0
82K09	753153	TRIB OF FORSTER	SMSM	116	34	28	0.2	45	20	1.9	586	4.4		3.9
82K09	753156	FORSTFF CK	SMSM	28	3	19	0.2	4	1	1.4	50	3.7		63.0
82K09	753159	TRIB OF FORSTER	SMSM	151	36	35	0.9	62	21	3.0	565	4.5		4.5
82K09	753162	FORSTER CK	SMSM	43	3	17	0.2	5	1	1.4	120	4.1		78.6
82K09	753165	ORSTER CK	SMSM	43	6	26	0.2	5	4	5.0	1301	15.0		359.0
82K09	753168	FORSTER CK	SMSM	48	7	21	0.2	10	4	2.0	418	6.6		127.0
82K09	753171	FORSTER CK	SMSM	49	7	15	0.2	14	3	1.3	326	5.1		74.2
82K09	753174	HORSETHIEF CK	SMSM	68	110	22	0.2	46	22	3.1	991	7.3		9.4

HORSETHIEF AND FORSTER CREEK AREA STREAM SEDIMENTS
MINUS 100 MESH, PLUS 200 MESH FRACTION BALL MILLED TO MINUS 200 MESH

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	-100 MEDIA	ZN	CU	PB	AG	NI	CO	MO	MN	% FE	U	REFER TO MAPS D I and D II
82K09	753177	FRANCES CK	SMSM	76	24	13	0.2	38	13	1.6	442	4.2	4.1	
82K09	753180	FRANCES	SMSM	84	20	15	0.2	36	17	2.1	408	4.0	4.0	
82K09	753183	FRANCES CK	SMSM	90	22	14	0.2	38	15	2.4	440	4.0	3.6	
82K10	753013	HORSETHIEF CK	SMSM	202	135	64	0.2	99	73	4.5	1455	11.2	6.0	
82K10	753016	TRIB OF HORSE	SMSM	107	50	21	0.2	52	22	2.3	594	5.0	3.7	
82K10	753022	FARNHAM	SMSM	81	32	29	0.2	22	12	2.7	477	3.4	3.9	
82K10	753025	TRIB OF HORSE	SMSM	60	62	16	0.2	55	21	3.0	287	5.0	4.0	
82K10	753028	HORSETHIEF CK	SMSM	98	75	38	0.2	76	39	3.5	1102	7.4	4.3	
82K10	753031	TRIB OF HORSE	SMSM	77	57	25	0.2	70	32	2.4	832	5.6	4.4	
82K10	753033	HORSECHIEF CK	SMSM	82	55	19	0.2	48	23	2.6	721	5.4	3.1	
82K10	753036	TRIB OF HORSE	SMSM	95	48	20	0.2	57	25	1.9	305	5.2	4.4	
82K10	753039	HORSETHIEF CK	SMSM	100	55	30	0.2	40	23	2.6	884	5.0	3.3	
82K10	753048	FORSTER CK	SMSM	23	1	20	0.2	14	1	1.8	193	4.4	82.6	
82K10	753051	FORSTER CK TRIB	SMSM	44	2	23	0.2	6	1	2.0	178	2.9	346.0	
82K10	753054	FORSTER CK	SMSM	29	1	16	0.2	3	1	1.0	48	2.5	50.6	

(L.O.I.) F ppm
3% 208

HORSETHIEF AND FORSTER CREEK AREA STREAM SEDIMENTS
MINUS 200 MESH FRACTION BALL MILLED TO 200 MESH

REFER TO MAPS D III and D IV

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	-200 MEDIA	PPM ZN	PPM CU	PPM PB	PPM AG	PPM NI	PPM CO	PPM MO	PPM MN	% FE	PPM U
82K07	753002	HORSETHIEF CK	SMSM	78	46	29	0.2	52	29	2.4	905	5.1	5.7
82K07	753005	TRIB OF HORSE	SMSM	89	46	36	.2	45	24	3.1	828	4.6	5.0
82K07	753008	HORSECHIEF CK	SMSM	84	105	58	.2	100	57	2.9	912	8.0	12.3
82K07	753011	HORSECHIEF CK	SMSM	101	66	29	.2	45	49	2.2	773	4.5	5.3
82K09	753020	FARNHAM CK	SMSM	58	41	24	.2	25	45	2.9	764	3.9	4.2
82K09	753043	HORSETHIEF CK	SMSM	84	52	33	.2	45	28	2.6	967	4.9	6.8
82K09	753046	STOCKDALE CK	SMSM	90	43	19	.2	46	49	2.9	994	4.9	5.5
82K09	753059	TRIB OF FORSTER	SMSM	45	13	26	0.2	6	7	6.1	1072	2.9	354.0
82K09	753062	FORSTER CK	SMSM	48	2	33	.2	13	4	5.3	492	12.1	378.0
82K09	753065	FORSTER CK	SMSM	23	2	27	.2	12	1	2.4	307	6.9	202.0
82K09	753068	TRIB OF FORSTER	SMSM	48	3	24	.2	8	1	5.3	403	2.2	61.9
82K09	753071	TRIB OF TRIB	SMSM	43	5	22	.2	7	1	4.6	332	4.9	111.0
82K09	753074	TRIB OF FORSTER	SMSM	67	11	44	.2	15	8	3.9	755	3.9	288.0
82K09	753077	FORSTER CK	SMSM	51	2	23	.2	8	1	2.1	224	4.7	117.0
82K09	753080	TRIB OF FORSTER	SMSM	54	11	39	.2	9	7	2.9	683	3.7	501.0
82K09	753083	FORSTER CK	SMSM	37	3	19	.2	11	1	0.5	50	3.3	75.6
82K09	753086	TRIB OF FORSTER	SMSM	48	11	23	.2	16	7	3.0	361	3.2	86.5
82K09	753089	TRIB OF FORSTER	SMSM	45	12	20	.2	14	6	2.1	475	2.4	19.9
82K09	753092	FORSTER CK	SMSM	15	2	23	.2	15	1	1.3	141	4.1	113.0
82K09	753096	TRIB OF FORSTER	SMSM	84	26	27	.2	18	13	2.8	884	3.7	6.5
82K09	753099	FORSTER CK	SMSM	36	3	20	.2	1	1	.5	50	3.1	70.7
82K09	753102	FAK CK	SMSM	167	45	86	.2	23	21	2.5	924	3.7	5.6
82K09	753105	HORSETHIEF	SMSM	93	47	30	.2	50	21	2.6	1076	5.5	6.9
82K09	753107	MACDONALD CK	SMSM	73	53	93	.6	26	19	2.6	535	4.5	5.5
82K09	753110	MACDONALD CK	SMSM	100	57	104	.5	26	19	3.1	569	4.6	6.3
82K09	753112	HORSETHIEF CK	SMSM	69	65	24	.2	50	21	2.0	633	4.6	6.3
82K09	753114	HORSETHIEF CK	SMSM	106	34	24	.2	41	17	2.5	802	4.4	4.3
82K09	753117	MACDONALD CK	SMSM	72	50	94	.7	27	20	2.8	528	4.6	5.2
82K09	753120	TRIB OF HORSE	SMSM	56	58	22	0.2	29	19	3.7	1248	4.1	3.2
82K09	753125	HORSETHIEF CK	SMSM	60	48	34	0.2	38	18	2.9	779	4.9	6.6
82K09	753128	HORSETHIEF CK	SMSM	30	47	24	0.2	30	17	3.5	693	4.2	4.2
82K09	753130	HORSETHIEF CK	SMSM	59	50	27	0.2	45	18	2.9	655	4.7	6.3
82K09	753133	HORSETHIEF CK	SMSM	85	45	24	0.2	45	32	3.3	755	4.2	4.5
82K09	753136	TRIB OF FORSTER	SMSM	58	38	27	0.2	24	17	3.4	1019	3.9	3.6
82K09	753139	FORSTER CK	SMSM	12	3	23	0.2	10	1	2.1	124	3.5	87.3
82K09	753142	FORSTER	SMSM	92	51	30	0.2	39	19	2.1	1012	4.5	5.2
82K09	753145	TRIB OF FORSTER	SMSM	12	4	25	0.2	10	1	1.3	250	5.6	138.0
82K09	753148	TRIB OF FORSTER	SMSM	64	48	25	0.2	40	21	2.7	754	4.5	5.7
82K09	753151	FORSTER CK	SMSM	46	28	21	0.2	24	13	2.5	562	3.6	6.9
82K09	753154	FORSTER CK	SMSM	27	2	20	0.2	5	1	1.4	202	4.5	113.0
82K09	753157	FORSTER CK	SMSM	121	34	35	0.5	41	20	3.0	956	4.3	5.3
82K09	753160	TRIB OF FORSTER	SMSM	28	3	24	0.2	9	1	2.1	250	4.3	99.1
82K09	753163	FORSTER CK	SMSM	185	37	54	0.2	58	23	3.5	787	4.3	4.8
82K09	753166	ORSTER CK	SMSM	33	3	23	0.2	10	1	2.0	264	6.2	161.0
82K09	753169	FORSTER CK	SMSM	44	6	29	0.2	12	4	2.5	477	7.2	153.0
82K09	753172	FORSTER CK	SMSM	41	7	22	0.2	16	4	2.8	459	6.2	148.0
82K09	753175	HORSETHIEF CK	SMSM	23	9	19	0.2	13	4	1.6	253	4.5	92.7
82K09	753175	HORSETHIEF CK	SMSM	90	67	31	0.2	41	23	3.2	914	5.1	7.2

HORSETHIEF AND FORSTER CREEK AREA STREAM SEDIMENTS
MINUS 200 MESH FRACTION BALL MILLED TO 200 MESH

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	-200 MEDIA	PPM ZN	PPM CU	PPM PA	PPM AG	PPM NI	PPM CO	PPM MO	PPM MN	% FE	PPM U	REFER TO MAPS D III and D IV
82K09	753178	FRANCES	SMSM	79	35	20	0.2	39	20	2.9	844	4.1	4.7	
82K09	753181	FRANCES CK	SMSM	62	30	17	0.2	39	21	2.1	398	4.5	3.9	
82K09	753184	FRANCES	SMSM	63	28	17	0.2	38	18	2.7	572	3.9	4.7	
82K10	753014	HORSETHIEF CK	SMSM	82	73	41	.2	60	45	2.5	964	5.9	9.8	
82K10	753017	TRIB OF HORSE	SMSM	91	40	19	0.2	45	21	2.2	649	5.0	6.5	
82K10	753023	FARNHAM	SMSM	60	40	32	.2	23	17	2.3	564	3.7	4.6	
82K10	753026	TRIB OF HORSE	SMSM	73	49	30	0.2	49	23	3.8	691	5.0	4.8	
82K10	753029	HORSETHIEF CK	SMSM	62	67	26	0.2	43	25	2.2	637	5.4	7.6	
82K10	753032	TRIB OF HORSE	SMSM	93	58	33	0.2	55	32	2.9	542	4.5	5.1	
82K10	753034	HORSECHIEF CK	SMSM	58	70	20	0.2	40	19	1.8	542	4.5	5.4	
82K10	753037	TRIB OF HORSE	SMSM	79	52	31	0.5	47	27	3.1	925	5.0	5.6	
82K10	753040	HORSETHIEF CK	SMSM	60	48	18	0.2	33	19	1.5	705	4.4	5.6	
82K10	753049	FORSTER CK	SMSM	4	2	29	0.2	7	1	2.3	373	6.8	204.0	F ppm
82K10	753052	TRIB OF FORSTER	SMSM	23	6	31	0.2	5	4	6.2	518	3.3	1229.	12%
82K10	753055	FORSTER CK	SMSM	28	3	32	0.2	6	1	2.2	435	6.1	196.0	

(L.O.I.) F ppm
12% 732

STREAM WATERS HORSETHIEF AND FORSTER CREEK

REFER TO MAPS D V and D VI

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	MEDIA	PH	PPB U	PPB F
82K07	753003	HORSETHIEF CK	SRMW	7.76	0.28	156
82K07	753006	TRIB OF HORSE	SRMW	7.64	0.60	136
82K07	753009	HORSECHIEF CK	SRMW	7.52	0.26	138
82K07	753012	HORSECHIEF CK	SRMW	7.85	0.28	144
82K07	753021	FARNHAM CK	SRMW	7.89	0.30	190
82K09	753044	HORSETHIEF CK	SRMW	7.54	0.42	158
82K09	753047	STOCKDALE CK	SRMW	7.60	0.60	170
82K09	753059	TRIB OF FORSTER	SPMW	7.43	2.00	800
82K09	753060	TRIB OF ABOVE	SRMW	7.74	1.90	
82K09	753063	FORSTER CK	SRMW	7.10	0.44	218
82K09	753066	FORSTER CK	SRMW	6.90	0.42	236
82K09	753069	TRIB OF FORSTER	SRMW	7.21	0.66	1560
82K09	753072	TRIB OF TRIB	SRMW	7.38	7.20	1532
82K09	753075	TRIB OF FORSTER	SRMW	7.29	2.60	570
82K09	753078	FORSTER CK	SRMW	6.74	0.68	260
82K09	753081	TRIB OF FORSTER	SRMW	7.00	2.40	520
82K09	753084	FORSTER CK	SRMW	6.98	0.68	290
82K09	753087	TRIB OF FORSTER	SRMW	7.20	0.80	338
82K09	753090	TRIB OF FORSTER	SRMW	8.51	5.20	356
82K09	753093	FORSTER CK	SRMW	7.09	0.70	226
82K09	753097	TRIB OF FORSTER	SRMW	8.43	0.66	116
82K09	753100	FORSTER CK	SRMW	7.43	0.66	218
82K09	753103	FAK CK	SRMW	8.03	0.57	98
82K09	753108	MACDONALD CK	SRMW	8.07	0.56	
82K09	753115	HORSETHIEF CK	SRMW	7.71	0.78	140
82K09	753118	MACDONALD CK	SRMW	8.03	0.54	106
82K09	753123	HORSETHIEF CK	SRMW	7.79	0.78	110
82K09	753126	GOPHER CK	SRMW	8.53	0.82	120
82K09	753131	HORSETHIEF CK	SRMW	8.05	0.68	122
82K09	753134	TRIB OF FORSTER	SRMW	7.78	0.18	
82K09	753137	FORSTER CK	SRMW	7.39	1.26	258
82K09	753140	TRIB OF FORSTER	SRMW	7.68	0.72	
82K09	753143	FORSTER	SRMW	7.58	2.00	244
82K09	753146	TRIB OF FORSTER	SRMW	7.67	0.64	
82K09	753149	TRIB OF FORSTER	SRMW	8.30	3.20	
82K09	753152	FORSTER CK	SRMW	7.39	2.00	250
82K09	753155	TRIB OF FORSTER	SRMW	7.62	0.52	
82K09	753158	FORSTER CK	SRMW	7.25	1.38	238
82K09	753161	TRIB OF FORSTER	SRMW	8.14	2.80	
82K09	753164	FORSTER CK	SRMW	7.82	1.40	236
82K09	753167	ORSTER CK	SRMW	7.48	1.50	210
82K09	753170	FORSTER CK	SRMW	7.99	1.44	170
82K09	753173	FORSTER CK	SRMW	7.55	1.44	180
82K09	753176	HORSETHIEF CK	SRMW	7.96	0.72	122
82K09	753179	FRANCES	SRMW	7.91	0.40	116
82K09	753182	FRANCES CK	SRMW	7.88	0.44	
82K09	753185	FRANCE CK	SRMW	7.89	0.44	
82K10	753015	HORSETHIEF CK	SRMW	7.43	0.36	138
82K10	753018	TRIB OF HORSE	SRMW	7.94	0.50	132

ROCK SAMPLE #	PPM U	PPM Th	PPM F
200	19.6	59.6	355
201	10.8	33.0	820
202	17.8	44.2	550
203	30.5	52.5	1100
204	147.0	54.7	630

Rock sample # 204 is a spring precipitate.
 Spring water collected at rock sample site # 204 contained 2.5ppb Al; 679ppm Na; 18.4ppm K; 294ppm Ca; 75.5 ppm Mg; 1250 ppm SO₄; 77.6 ppm Cl; 21.5 ppm SiO₂; 1021 ppm CaCO₃; 1244ppm HCO₃; 6.92 PH; 941⁻ppb Mn; less than 100 ppb Fe; 1920 ppb F; and 400 ppb U.

STREAM WATERS HORSETHIEF AND FORSTER CREEK

MAP SHEET	SAMPLE NUMBER	SAMPLE LOCATION	MEDIA	PH	PPR U	PPB F
82K10	753024	FARNHAM	SRMW	7.58	0.28	192
82K10	753027	TRIB OF HORSE	SRMW	8.02	1.00	124
82K10	753030	HORSETHIEF CK	SRMW	7.58	0.20	92
82K10	753035	HORSECHIEF CK	SRMW	7.92	0.20	104
82K10	753038	TRIB OF HORSE	SRMW	6.42	0.12	108
82K10	753041	HORSETHIEF CK	SRMW	7.72	0.38	102
82K10	753050	FORSTER CK	SRMW	7.05	0.38	138
82K10	753053	TRIB OF FORSTER	SRMW	7.46	34.00	720
82K10	753056	FORSTER CK	SRMW	6.80	1.44	152

REFER TO MAPS D V and D VI