Table B-3

PARTIAL DATA LISTING FOR STREAM SEDIMENT OF THE EDGEMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

EDGEMONT DETAILED SURVEY SEDIMENTS

OR SAMPLE NUMBER	D. O. E. SAMPLE NUMBER ST	LAT	LONG	L TY REP	U-FL (PPM)	U-NT (PPM)	TH (PPM)	AS (PPM)	CO (PPM)	CU (PPM)	NI (PPM)	SE (PPM)	V (PPM)	ZN (PPM)	ZR (PPM)
404876	46-43.376	-103.763	-3-15-		1.8	3.4	10	2.3	<4	9	6	0.4	23	20	47
404877	46-43.377	-103.763	-3-15-		2.0	3.1	2	3.5	5	6	9	0.6	34	24	56
404878	46-43.403	-103.779	-3-12-		4.0	4.6	8	2.6	6	13	16	3.0	54	46	69
404880	46-43.404	-103.776	-3-15-		4.8	5.1	8	2.7	<4	6	2	1.1	37	39	50
404881	46-43.408	-103.779	-3-15-		100.	92.	3	4.6	<4	5	3	7.2	110	22	40
404882	46-43.410	-103.782	-3-12-		6.3	6.8	4	5.5	11	23	27	12.	79	69	73
404883	46-43.418	-103.782	-3-15-		3.3	4.1	<2	2.8	<4	8	7	1.0	34	31	56
404884	46-43.423	-103.784	-3-15-		2.5	3.0	2	5.7	10	21	25	0.5	74	66	71
404885	46-43.441	-103.776	-3-15-		1.6	2.0	7	2.7	5	11	13	0.5	35	35	60
404886	46-43.452	-103.784	-3-15-		1.9	2.4	5	3.8	7	15	16	0.4	53	50	73
405071	46-43.488	-103.981	-3-15-		38.	38.	6	3.4	8	17	15	4.5	78	42	88
405072	46-43.489	-103.971	-3-15-		8.2	8.5	7	3.1	5	16	18	4.8	76	45	94
405073	46-43.475	-103.970	-3-15-		8.0	8.1	10	5.4	14	25	32	2.4	130	100	100
405074	46-43.473	-103.964	-3-15-		10.0	11.	4	5.3	12	27	25	3.1	100	86	96
405075	46-43.474	-103.963	-3-15-		4.3	4.8	6	3.2	12	21	25	2.8	96	60	87
405076	46-43.486	-103.960	-3-15-		5.0	5.2	8	4.0	11	22	24	1.1	85	78	86
405077	46-43.487	-103.960	-3-15-		3.5	3.9	7	3.2	12	17	17	1.4	64	50	81
405078	46-43.487	-103.961	-3-15-		32.	29.	5	4.7	7	14	14	7.6	83	34	75
405079	46-43.495	-103.948	-3-15-		3.1	4.2	2	17.	6	6	8	2.1	47	27	56
405080	46-43.495	-103.949	-3-15-		2.5	3.5	2	12.	6	8	5	1.8	47	28	45
405081	46-43.481	-103.943	-3-15-		57.	52.	18	14.	10	26	27	23.	470	72	110
405082	46-43.479	-103.940	-3-15-		2.7	3.7	4	2.4	4	9	8	1.4	35	32	66
405083	46-43.478	-103.937	-3-15-		3.5	3.5	5	3.1	5	11	9	0.8	47	39	67
405085	46-43.481	-103.931	-3-15-		5.7	6.9	3	4.8	<4	9	6	1.2	46	22	62
405086	46-43.490	-103.928	-3-15-		1.9	2.5	2	4.3	<4	6	4	2.5	30	24	49
405087	46-43.491	-103.928	-3-15-		1.8	2.0	3	2.8	<4	6	5	1.2	25	23	52
405088	46-43.491	-103.930	-3-15-		1.3	2.5	<2	3.3	5	12	9	0.6	22	20	46
405091	46-43.494	-103.980	-3-15-		2.3	3.9	4	4.0	8	17	18	0.3	80	50	94
405092	46-43.481	-103.969	-3-15-		0.70	2.7	7	4.0	8	16	21	0.2	62	55	70
405093	46-43.462	-103.984	-3-15-		3.7	4.4	9	6.6	9	20	15	0.1	71	72	77
405094	46-43.463	-103.991	-3-15-		5.3	3.4	5	5.2	10	22	26	0.3	81	75	68
405095	46-43.469	-103.979	-3-15-		2.2	3.0	7	4.7	12	23	26	0.2	100	100	92
405097	46-43.436	-103.992	-3-15-		2.1	3.2	6	3.3	6	18	14	0.2	71	65	77
405098	46-43.425	-103.996	-3-15-		2.3	3.2	6	4.0	7	15	16	0.3	68	61	63
405099	46-43.331	-103.671	-3-15-		3.1	3.0	4	3.8	8	16	15	0.4	66	60	60
405100	46-43.330	-103.672	-3-15-		1.6	2.6	3	4.0	6	13	9	1.0	46	43	55
405101	46-43.333	-103.648	-3-15-		1.3	1.6	3	1.7	4	8	8	0.4	34	31	51
405102	46-43.348	-103.663	-3-15-		1.4	1.5	2	2.7	<4	8	7	0.4	26	28	43
405208	46-43.339	-103.788	-3-15-		2.8	3.4	<2	4.1	8	16	21	0.5	66	60	68
405209	46-43.366	-103.765	-3-15-		2.3	3.3	6	3.2	8	14	15	0.2	54	43	69
405210	46-43.368	-103.765	-3-15-		2.4	3.6	7	3.0	7	15	13	0.4	54	49	77
405211	46-43.372	-103.765	-3-15-		2.5	3.6	6	4.0	11	15	21	0.3	63	62	74
405212	46-43.373	-103.765	-3-15-		1.3	2.2	5	3.8	30	6	16	0.1	29	32	46
405213	46-43.369	-103.784	-3-12-		5.2	4.9	6	4.1	9	17	20	0.8	66	59	66
405214	46-43.367	-103.802	-3-15-		6.2	22.	6	7.4	10	20	27	1.4	110	90	74
405216	46-43.362	-103.800	-3-15-		2.5	2.3	7	4.4	4	7	7	0.3	64	67	40
405217	46-43.364	-103.790	-3-15-		4.4	4.2	5	3.2	9	15	20	0.2	65	49	68
405218	46-43.365	-103.787	-3-15-		2.6	2.3	7	3.2	6	12	14	<0.1	43	40	57
405219	46-43.351	-103.788	-3-15-		3.6	3.0	3	2.6	5	10	10	<0.1	37	32	58
405220	46-43.305	-103.686	-3-15-		2.2	2.4	4	3.2	4	9	6	0.3	37	32	41
405221	46-43.323	-103.690	-3-15-		25.	39.	<2	3.1	<4	7	6	0.7	54	21	49
405222	46-43.306	-103.682	-3-15-		2.1	1.9	5	2.9	4	10	9	0.3	28	46	45
405223	46-43.307	-103.695	-3-15-		2.6	2.6	3	4.2	5	11	8	0.2	51	45	60
405224	46-43.302	-103.688	-3-15-		2.7	2.6	6	3.4	4	8	8	0.2	35	30	48
405226	46-43.356	-103.796	-3-15-		5.9	5.2	5	4.5	15	18	31	0.6	76	83	78

Table B-3, Continued

PARTIAL DATA LISTING FOR STREAM SEDIMENT OF THE EDGEMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

EDGEMONT DETAILED SURVEY SEDIMENTS

OR SAMPLE NUMBER	D. G. E. SAMPLE NUMBER ST LAT	LONG	L TY REP	U-FL (PPM)	U-NT (PPM)	TH (PPM)	AS (PPM)	CO (PPM)	CL (PPM)	NI (PPM)	SE (PPM)	V (PPM)	ZN (PPM)	ZR (PPM)
405227	46-43.349	-103.804	-3-15-	3.7	3.6	8	5.1	16	25	28	0.2	100	90	89
405228	46-43.346	-103.774	-3-15-	4.0	3.9	10	4.3	11	15	25	<0.1	74	73	74
405229	46-43.289	-103.785	-3-15-	5.9	5.6	11	7.6	10	21	27	0.5	83	98	86
405231	46-43.290	-103.784	-3-15-	5.6	4.8	11	7.2	7	20	21	0.6	90	88	87
405232	46-43.291	-103.768	-3-15-	5.9	5.4	8	2.8	8	17	15	0.2	72	69	62
405233	46-43.291	-103.769	-3-15-	3.3	3.4	9	3.9	6	12	13	0.1	53	53	72
405234	46-43.268	-103.767	-3-15-	11.	8.7	7	18.	27	16	46	1.0	90	74	43
405235	46-43.267	-103.766	-3-15-	6.2	5.8	10	11.	5	22	18	0.5	92	69	68
405236	46-43.267	-103.782	-3-15-	5.6	5.9	5	8.2	7	29	36	0.8	130	94	65
405237	46-43.268	-103.784	-3-15-	7.1	6.7	6	8.8	8	36	44	0.8	160	120	71
405238	46-43.267	-103.784	-3-15-	6.7	5.9	4	8.0	7	30	36	0.9	130	95	62
405239	46-43.267	-103.776	-3-15-	4.9	5.2	8	9.3	7	26	32	0.9	120	85	65
405240	46-43.266	-103.775	-3-15-	7.2	6.3	13	8.8	8	31	31	0.9	140	100	73
405241	46-43.275	-103.771	-3-15-	6.3	5.5	8	7.5	7	25	26	0.8	110	91	64
405242	46-43.278	-103.771	-3-15-	5.4	5.1	8	6.9	6	23	20	0.6	110	81	68
405243	46-43.281	-103.769	-3-15-	4.7	4.2	9	6.0	8	18	21	0.3	76	79	73
405244	46-43.292	-103.762	-3-15-	4.1	4.2	3	3.9	10	22	16	0.3	79	78	70
405245	46-43.290	-103.762	-3-15-	3.7	4.1	6	4.4	7	14	15	0.4	60	58	72
405246	46-43.291	-103.819	-3-12-	5.5	5.1	7	6.9	7	26	24	0.5	100	95	75
405247	46-43.368	-103.831	-3-15-	3.5	3.6	4	6.0	9	19	16	2.3	82	68	76
405248	46-43.369	-103.826	-3-15-	4.1	3.8	7	3.4	8	18	20	1.2	85	93	75
405249	46-43.369	-103.823	-3-15-	4.5	4.2	9	4.2	9	19	19	1.1	91	71	81
405250	46-43.361	-103.818	-3-15-	5.4	4.8	8	4.8	9	22	24	0.8	96	86	81
405251	46-43.361	-103.811	-3-15-	6.0	4.8	5	4.9	6	21	13	1.2	110	56	93
405252	46-43.354	-103.817	-3-15-	4.0	4.3	10	5.2	6	22	16	1.7	110	65	86
405253	46-43.372	-103.833	-3-15-	3.8	4.2	12	4.5	9	19	20	0.9	92	79	78
405254	46-43.343	-103.820	-3-15-	2.9	3.4	6	3.2	9	19	20	1.2	88	81	71
405255	46-43.359	-103.830	-3-15-	2.5	3.0	7	4.5	9	20	20	0.9	100	83	81
405256	46-43.343	-103.829	-3-15-	4.4	3.6	9	4.5	11	20	21	1.2	80	74	80
405257	46-43.344	-103.830	-3-15-	2.9	3.6	10	6.4	12	21	22	0.8	76	78	82
405258	46-43.343	-103.830	-3-15-	2.6	3.6	10	4.9	9	20	21	0.4	79	87	79
405259	46-43.364	-103.840	-3-15-	2.9	3.4	11	4.8	9	21	21	0.1	93	85	89
405260	46-43.362	-103.860	-3-15-	2.6	3.1	11	5.1	13	22	31	0.1	110	120	100
405261	46-43.363	-103.860	-3-15-	3.2	3.1	4	2.9	10	16	25	0.7	91	82	84
405263	46-43.282	-103.840	-3-12-	4.4	5.2	10	6.6	6	25	20	1.4	110	95	83
405264	46-43.284	-103.839	-3-12-	6.2	6.7	12	8.0	7	28	23	0.8	120	100	94
405265	46-43.270	-103.826	-3-15-	7.0	6.7	9	11.	7	31	36	0.9	140	97	69
405266	46-43.284	-103.825	-3-12-	6.9	6.0	7	17.	11	22	31	13.	120	88	48
405267	46-43.283	-103.822	-3-12-	7.2	7.2	13	7.7	7	26	25	2.3	130	91	67
405268	46-43.285	-103.830	-3-15-	5.8	5.7	7	11.	12	28	31	1.8	150	110	64
405269	46-43.345	-103.848	-3-15-	2.7	3.6	9	4.6	6	12	13	0.6	61	57	62
405270	46-43.345	-103.846	-3-15-	6.1	5.9	8	5.1	8	16	16	0.9	63	77	60
405271	46-43.325	-103.856	-3-15-	4.8	5.1	11	7.3	7	20	24	0.7	110	89	67
405276	46-43.328	-103.873	-3-15-	3.1	3.7	8	5.6	5	14	16	0.8	80	65	49
405278	46-43.329	-103.866	-3-12-	4.3	4.2	5	5.5	5	12	18	0.4	75	57	50
405279	46-43.313	-103.847	-3-15-	7.4	6.3	8	9.7	7	26	25	1.4	120	92	81
405280	46-43.308	-103.869	-3-15-	8.3	7.8	9	11.	8	25	25	1.6	130	94	88
405281	46-43.316	-103.788	-3-15-	2.7	2.7	<2	4.4	6	13	16	<0.1	55	49	74
405282	46-43.309	-103.761	-3-15-	2.8	3.2	4	3.6	5	10	11	1.7	45	41	54
405283	46-43.309	-103.795	-3-12-	3.5	3.5	6	3.6	7	15	15	1.2	65	62	67
405284	46-43.356	-103.875	-3-15-	3.1	3.1	4	3.6	6	13	13	2.6	62	57	59
405285	46-43.304	-103.818	-3-12-	16.	14.	6	9.9	9	35	32	6.4	220	99	60
405313	46-43.360	-103.705	-3-15-	3.4	3.0	9	4.8	6	14	14	1.0	61	57	70
405314	46-43.365	-103.697	-3-15-	2.9	3.2	3	3.9	11	12	15	0.9	40	49	65
405315	46-43.363	-103.697	-3-15-	3.1	3.1	8	4.1	10	12	13	0.9	45	47	69

Table B-3, Continued

PARTIAL DATA LISTING FOR STREAM SEDIMENT OF THE EDGEMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

EDGEMONT DETAILED SURVEY SEDIMENTS

OR SAMPLE NUMBER	D. O. E. SAMPLE NUMBER ST LAT	LONG	L TY REP	U-FL (PPM)	U-NT (PPM)	TH (PPM)	AS (PPM)	CO (PPM)	CU (PPM)	NI (PPM)	SE (PPM)	V (PPM)	ZN (PPM)	ZR (PPM)
405316	46-43.363	-103.711	-3-12-	77.	77.	7	11.	7	14	13	1.8	160	48	69
405317	46-43.353	-103.704	-3-15-	2.3	2.8	6	5.6	4	9	10	0.6	40	34	61
405318	46-43.348	-103.708	-3-15-	3.3	3.2	6	2.1	4	9	7	0.4	38	29	64
405319	46-43.353	-103.709	-3-15-	2.8	2.5	7	5.2	4	11	8	0.5	36	33	50
405320	46-43.350	-103.710	-3-15-	1.4	2.2	5	2.1	4	8	9	0.7	40	30	48
405322	46-43.341	-103.709	-3-15-	2.0	2.5	2	2.4	<4	7	6	<0.1	27	27	52
405323	46-43.363	-103.721	-3-15-	130.	110.	11	14.	4	11	12	8.8	260	29	67
405324	46-43.363	-103.720	-3-15-	170.	150.	9	23.	6	16	14	26.	350	52	74
405325	46-43.322	-103.691	-3-15-	2.3	2.1	3	2.6	<4	4	3	2.4	17	25	36
405326	46-43.317	-103.689	-3-15-	2.1	1.9	5	2.9	<4	7	6	0.4	20	24	42
405327	46-43.305	-103.676	-3-15-	4.3	4.7	4	2.0	<4	5	4	0.5	22	22	36
405329	46-43.309	-103.696	-3-15-	2.3	2.6	9	2.3	7	14	15	0.2	77	70	72
405331	46-43.345	-103.781	-3-12-	3.4	4.3	5	3.1	6	14	17	0.7	58	60	64
405332	46-43.354	-103.799	-3-15-	2.9	3.3	7	4.4	7	17	15	0.6	70	64	67
405333	46-43.336	-103.789	-3-15-	2.8	3.2	7	3.9	8	16	15	0.6	70	65	64
405334	46-43.375	-103.704	-3-15-	2.3	2.2	6	3.5	4	14	7	0.1	40	55	52
405335	46-43.377	-103.707	-3-15-	2.0	2.1	3	2.4	<4	7	5	0.7	25	29	37
405336	46-43.382	-103.705	-3-15-	2.0	1.9	2	1.8	<4	10	8	0.2	35	39	48
405337	46-43.289	-103.738	-3-15-	2.3	3.0	7	3.2	4	8	7	0.8	46	32	51
405338	46-43.290	-103.739	-3-15-	1.5	2.3	3	1.9	<4	7	6	0.4	48	21	39
405339	46-43.289	-103.740	-3-15-	2.6	3.0	7	3.3	4	7	8	0.7	37	35	51
405340	46-43.299	-103.739	-3-15-	3.9	4.0	5	4.2	5	11	11	1.2	51	47	66
405341	46-43.299	-103.741	-3-15-	32.	32.	7	6.5	8	14	14	0.9	65	72	68
405342	46-43.308	-103.736	-3-15-	3.6	3.9	5	8.3	4	10	9	1.9	51	28	73
405343	46-43.306	-103.741	-3-15-	2.3	3.2	7	3.9	5	10	10	0.9	51	46	62
405344	46-43.305	-103.739	-3-15-	3.1	4.2	4	7.1	4	9	7	1.1	46	30	65
405345	46-43.330	-103.746	-3-15-	11.	11.	7	9.5	6	10	10	3.4	58	35	62
405346	46-43.330	-103.745	-3-15-	15.	14.	4	12.	6	12	10	3.8	70	38	64
405347	46-43.266	-103.677	-3-15-	4.0	3.6	9	4.9	6	15	14	1.1	66	62	62
405348	46-43.281	-103.658	-3-15-	2.5	3.0	5	3.2	5	10	10	0.5	45	42	59
405349	46-43.278	-103.654	-3-15-	6.0	6.2	5	3.4	4	8	8	0.5	43	32	51
405350	46-43.292	-103.644	-3-15-	3.5	3.2	9	3.3	5	10	9	0.8	48	45	52
405351	46-43.334	-103.638	-3-15-	2.2	3.3	6	2.2	6	11	14	0.7	52	51	64
405352	46-43.358	-103.839	-3-15-	2.6	3.3	9	4.2	10	18	21	0.8	81	70	77
405353	46-43.362	-103.863	-3-15-	2.4	3.0	7	4.1	9	16	20	1.1	83	78	75
405354	46-43.351	-103.741	-3-15-	3.7	3.1	7	8.5	6	9	11	1.3	47	30	56
405358	46-43.340	-103.691	-3-15-	4.3	3.9	5	3.2	4	8	6	1.1	39	27	55
405359	46-43.341	-103.691	-3-15-	2.4	2.8	3	4.5	4	11	8	1.2	40	42	61
405360	46-43.588	-103.550	-3-15-	1.4	1.7	3	2.2	<4	7	7	0.3	26	27	37
405361	46-43.579	-103.561	-3-15-	2.0	2.1	3	2.7	5	10	13	0.1	36	30	58
405362	46-43.578	-103.563	-3-12-	1.9	2.1	3	3.2	5	12	13	1.2	42	34	72
405363	46-43.582	-103.562	-3-12-	1.5	1.8	2	2.4	4	5	10	0.4	34	27	52
405364	46-43.582	-103.561	-3-15-	1.5	2.0	2	1.9	<4	5	5	0.4	32	25	48
405365	46-43.579	-103.541	-3-15-	2.9	2.7	6	2.9	6	11	14	<0.1	45	41	71
405366	46-43.569	-103.543	-3-15-	2.2	2.3	3	2.4	4	8	12	0.1	33	27	75
405367	46-43.570	-103.550	-3-15-	3.1	2.8	5	2.6	6	12	16	0.2	44	35	77
405368	46-43.569	-103.547	-3-15-	2.7	2.4	6	3.3	4	8	12	0.4	35	28	76
405369	46-43.310	-103.645	-3-15-	3.0	3.3	7	3.2	5	11	10	1.0	46	34	63
405370	46-43.309	-103.645	-3-15-	3.5	3.3	2	3.5	4	7	6	0.5	35	15	50
405371	46-43.305	-103.640	-3-15-	3.4	3.1	6	2.8	4	7	6	0.4	36	20	64
405372	46-43.304	-103.642	-3-15-	3.3	3.4	6	2.5	4	8	8	1.0	46	38	60
405373	46-43.301	-103.636	-3-15-	3.6	4.1	8	2.6	<4	7	7	0.6	44	34	93
405374	46-43.297	-103.625	-3-15-	1.9	2.8	7	2.6	5	8	9	2.1	41	32	56
405375	46-43.306	-103.622	-3-15-	1.9	4.6	11	2.9	5	10	13	1.7	53	50	46
405376	46-43.315	-103.626	-3-15-	1.1	1.6	3	1.5	<4	7	5	0.2	21	17	37

Table B-3, Continued

PARTIAL DATA LISTING FOR STREAM SEDIMENT OF THE EDGEMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

EDGEMONT DETAILED SURVEY SEDIMENTS

OR SAMPLE NUMBER	D. O. E. SAMPLE NUMBER ST LAT	LONG	L TY REP	U-FL (PPM)	U-NT (PPM)	TH (PPM)	AS (PPM)	CO (PPM)	CU (PPM)	NI (PPM)	SE (PPM)	V (PPM)	ZN (PPM)	ZR (PPM)
405377	46-43.314	-103.627	-3-15-	1.9	2.7	9	2.2	<4	11	6	1.2	35	41	68
405378	46-43.311	-103.617	-3-15-	1.8	2.0	3	2.2	<4	7	5	0.6	26	25	43
405419	46-43.393	-103.790	-3-15-	4.7	5.3	<2	3.3	7	13	6	0.3	31	21	61
405420	46-43.401	-103.803	-3-15-	1.2	2.4	8	2.1	6	9	7	0.4	28	26	66
405421	46-43.412	-103.812	-3-15-	17.	16.	3	4.3	6	8	6	1.4	35	19	61
405423	46-43.420	-103.819	-3-15-	6.9	6.4	<2	3.2	5	9	5	0.9	34	14	73
405424	46-43.423	-103.815	-3-15-	2.8	3.2	3	2.0	5	6	5	0.4	27	27	60
405425	46-43.381	-103.772	-3-15-	4.1	3.2	2	2.7	6	11	7	0.6	33	27	61
405426	46-43.382	-103.781	-3-12-	5.0	6.7	8	4.2	9	16	21	2.4	69	60	69
405427	46-43.392	-103.777	-3-15-	9.9	11.	5	3.2	5	16	17	1.2	100	74	78
405428	46-43.398	-103.778	-3-15-	4.5	5.8	5	4.2	9	16	21	2.6	70	60	62
405429	46-43.412	-103.787	-3-15-	1.2	1.8	3	2.7	10	13	16	<0.1	66	64	57
405430	46-43.412	-103.757	-3-15-	1.5	1.9	5	1.5	4	8	6	0.1	30	28	51
405431	46-43.413	-103.757	-3-15-	2.2	2.2	2	1.9	5	10	11	0.4	36	38	48
405432	46-43.411	-103.762	-3-15-	2.2	2.5	6	2.6	6	11	13	0.2	46	45	50
405433	46-43.447	-103.789	-3-15-	2.5	3.0	5	4.5	11	20	27	0.2	86	84	65
405434	46-43.436	-103.787	-3-15-	1.5	2.0	4	1.5	5	8	5	<0.1	35	34	49
405435	46-43.437	-103.782	-3-15-	1.8	2.4	6	4.1	6	13	17	0.6	50	41	58
405436	46-43.431	-103.816	-3-15-	2.4	2.8	4	2.2	4	8	7	0.4	40	37	53
405437	46-43.440	-103.825	-3-15-	2.4	2.9	5	2.6	5	10	10	0.4	41	47	59
405438	46-43.442	-103.823	-3-15-	2.8	2.5	3	1.6	5	6	11	0.2	41	38	59
405439	46-43.447	-103.827	-3-15-	2.4	2.6	4	3.1	5	10	10	0.7	39	34	62
405440	46-43.454	-103.829	-3-15-	2.3	2.8	4	2.1	5	12	11	0.5	51	53	70
405441	46-43.458	-103.822	-3-15-	2.4	2.5	4	1.7	5	12	11	0.4	49	54	63
405442	46-43.460	-103.823	-3-15-	1.9	2.2	3	1.7	5	11	10	0.3	42	47	54
405443	46-43.476	-103.837	-3-15-	2.5	2.4	3	1.6	5	12	10	0.7	46	60	57
405444	46-43.473	-103.823	-3-15-	2.0	2.4	6	2.5	8	14	17	0.6	75	74	79
405445	46-43.473	-103.818	-3-15-	3.2	3.9	10	4.3	10	19	24	0.6	75	68	70
405446	46-43.474	-103.817	-3-15-	1.8	2.2	8	1.6	9	16	19	0.8	60	46	60
405447	46-43.480	-103.814	-3-15-	3.8	4.3	8	3.6	8	14	19	0.5	55	49	74
405448	46-43.479	-103.815	-3-15-	1.9	2.4	6	3.3	7	12	16	0.3	49	45	73
405449	46-43.468	-103.826	-3-15-	5.2	5.7	3	1.5	6	15	14	0.7	53	74	62
405450	46-43.382	-103.861	-3-15-	3.7	3.8	6	3.5	7	19	16	0.5	80	63	86
405451	46-43.385	-103.865	-3-15-	4.5	4.7	8	2.5	8	16	15	0.9	69	64	70
405452	46-43.397	-103.844	-3-15-	3.8	4.6	5	3.5	7	11	12	1.0	55	31	60
405453	46-43.394	-103.872	-3-15-	11.	12.	5	2.9	6	14	19	0.8	77	43	75
405454	46-43.396	-103.874	-3-15-	4.9	6.1	9	3.8	10	20	23	0.6	99	61	93
405455	46-43.412	-103.870	-3-15-	0.98	1.8	5	1.5	<4	7	4	0.6	25	17	38
405457	46-43.414	-103.864	-3-15-	3.4	4.2	3	2.6	<4	6	5	1.1	37	19	45
405458	46-43.427	-103.863	-3-15-	2.5	3.4	3	2.2	<4	5	4	1.2	22	12	44
405459	46-43.435	-103.863	-3-15-	2.3	8.8	2	1.8	<4	6	3	0.4	23	13	38
405460	46-43.438	-103.867	-3-15-	1.5	1.8	<2	1.3	<4	6	3	<0.1	19	17	37
405461	46-43.441	-103.866	-3-15-	2.0	1.8	<2	1.6	<4	6	2	0.7	23	14	36
405462	46-43.441	-103.868	-3-15-	0.87	2.1	<2	1.5	<4	6	3	0.6	22	11	36
405463	46-43.415	-103.875	-3-15-	1.4	2.4	<2	2.1	<4	7	6	0.8	30	26	44
405464	46-43.430	-103.882	-3-15-	16.	17.	4	2.0	<4	6	6	0.6	32	13	53
405465	46-43.434	-103.884	-3-15-	1.5	2.0	<2	2.4	<4	5	6	0.4	30	18	45
405466	46-43.447	-103.884	-3-15-	1.6	2.0	<2	2.8	<4	5	5	0.5	24	17	31
405467	46-43.449	-103.875	-3-15-	1.7	2.2	2	4.1	<4	5	4	0.5	25	14	35
405468	46-43.456	-103.888	-3-15-	1.5	2.6	<2	5.8	4	8	6	0.5	36	25	45
405469	46-43.456	-103.887	-3-15-	1.5	2.1	5	3.3	4	7	7	0.1	25	19	49
405470	46-43.468	-103.856	-3-15-	2.8	2.8	9	4.0	5	13	5	0.4	49	47	78
405471	46-43.472	-103.849	-3-15-	1.9	2.3	8	2.4	5	10	5	0.4	43	42	70
405472	46-43.473	-103.848	-3-15-	1.4	1.9	5	1.7	5	11	10	0.4	43	45	57
405473	46-43.485	-103.846	-3-15-	1.8	2.5	5	1.8	6	16	14	0.6	64	66	65

PARTIAL DATA LISTING FOR STREAM SEDIMENT OF THE EDGEMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

EDGEMONT DETAILED SURVEY SEDIMENTS

OR SAMPLE NUMBER	D. O. E. SAMPLE NUMBER ST LAT	LONG	L TY REP	U-FL (PPM)	U-NT (PPM)	TH (PPM)	AS (PPM)	CO (PPM)	CL (PPM)	NI (PPM)	SE (PPM)	V (PPM)	ZN (PPM)	ZR (PPM)
405474	46-43.491	-103.849	-3-15-	1.1	1.8	<2	0.8	<4	7	7	0.2	32	34	54
405475	46-43.489	-103.858	-3-15-	1.7	2.1	5	2.3	6	12	13	0.1	55	54	68
405476	46-43.496	-103.859	-3-15-	1.6	2.1	7	1.7	5	13	13	0.3	53	60	69
405477	46-43.495	-103.882	-3-15-	2.4	2.7	4	2.7	6	13	13	0.4	55	60	65
405478	46-43.496	-103.884	-3-15-	2.8	2.9	6	2.4	5	11	11	0.8	50	51	64
405479	46-43.493	-103.887	-3-15-	2.9	2.8	6	2.1	6	13	12	0.8	60	58	69
405480	46-43.492	-103.877	-3-15-	1.6	1.9	3	2.0	4	8	8	0.6	35	36	57
405481	46-43.441	-103.914	-3-15-	1.7	1.7	6	1.4	<4	5	5	0.4	25	21	71
405482	46-43.433	-103.919	-3-15-	1.3	1.9	5	1.7	<4	9	6	3.0	25	21	48
405483	46-43.432	-103.917	-3-15-	1.3	1.8	2	1.5	<4	5	4	0.9	25	20	48
405484	46-43.432	-103.910	-3-15-	1.1	1.9	3	1.6	<4	7	5	0.6	30	22	47
405485	46-43.441	-103.904	-3-15-	0.85	1.3	4	1.6	<4	6	4	0.5	21	13	36
405486	46-43.435	-103.904	-3-15-	0.89	1.0	2	1.3	<4	5	5	0.6	15	11	26
405488	46-43.440	-103.901	-3-15-	1.5	1.3	3	1.1	<4	6	3	0.3	22	14	36
405489	46-43.440	-103.902	-3-15-	1.1	1.5	2	1.1	<4	6	5	0.2	19	12	32
405490	46-43.432	-103.901	-3-15-	1.6	1.8	8	1.2	<4	7	5	0.1	25	19	51
405491	46-43.431	-103.901	-3-15-	0.91	1.6	4	1.8	<4	6	4	1.5	22	16	36
405492	46-43.431	-103.910	-3-15-	1.9	2.5	3	1.7	4	12	7	1.0	45	35	66
405493	46-43.431	-103.921	-3-15-	2.0	2.1	4	1.6	<4	11	5	0.1	43	29	68
405494	46-43.426	-103.924	-3-15-	1.2	2.1	5	1.6	<4	5	6	0.4	34	28	53
405495	46-43.427	-103.923	-3-15-	1.2	1.8	7	2.2	<4	10	6	0.7	33	26	54
405496	46-43.405	-103.911	-3-15-	2.5	3.2	7	2.7	6	15	13	0.6	55	39	80
405497	46-43.406	-103.909	-3-15-	2.5	3.3	6	3.1	7	15	15	<0.1	60	41	78
405498	46-43.412	-103.904	-3-15-	3.1	4.0	7	2.7	7	19	17	0.5	85	55	84
405499	46-43.412	-103.902	-3-15-	2.9	3.3	7	3.4	6	14	15	0.5	58	45	77
405500	46-43.402	-103.901	-3-15-	2.3	2.8	5	3.1	8	14	15	0.3	50	44	60
405501	46-43.360	-103.877	-3-15-	2.8	3.7	12	8.6	9	23	21	0.5	92	87	83
405502	46-43.377	-103.877	-3-15-	2.6	3.1	5	5.1	10	18	21	0.1	75	76	78
405503	46-43.379	-103.897	-3-15-	2.8	3.3	3	4.0	8	14	16	0.1	55	66	64
405504	46-43.416	-103.959	-3-12-	3.5	4.3	7	4.0	6	20	16	0.5	84	76	65
405505	46-43.424	-103.950	-3-15-	3.8	3.9	8	4.7	7	22	21	0.4	88	83	77
405506	46-43.422	-103.942	-3-15-	5.1	4.8	8	5.0	10	24	24	0.8	95	89	86
405507	46-43.425	-103.948	-3-15-	4.4	4.4	5	5.7	10	24	24	0.1	95	92	85
405508	46-43.343	-103.883	-3-15-	6.6	7.9	10	6.6	8	22	23	0.9	86	95	62
405509	46-43.345	-103.883	-3-15-	2.7	3.7	8	3.4	6	14	15	0.3	67	63	69
405510	46-43.342	-103.878	-3-15-	15.	14.	9	4.5	5	20	17	1.0	85	87	61
405511	46-43.379	-103.934	-3-15-	4.0	4.2	11	5.3	6	23	19	0.6	86	84	77
405512	46-43.394	-103.945	-3-12-	3.0	3.8	5	1.5	<4	10	7	0.9	33	60	19
405513	46-43.362	-103.899	-3-12-	2.6	3.6	6	3.1	4	5	5	0.3	51	48	44
405515	46-43.449	-104.016	-3-12-	3.0	4.0	8	4.4	8	18	22	0.2	85	77	61
405516	46-43.457	-104.017	-3-12-	4.1	4.0	9	5.5	11	22	26	0.7	83	79	66
405517	46-43.456	-104.019	-3-12-	4.5	5.0	8	6.5	10	18	23	1.0	85	90	67
405518	46-43.473	-104.020	-3-12-	4.4	5.3	8	8.4	12	19	27	1.6	85	110	65
405519	46-43.470	-104.026	-3-15-	4.1	4.6	10	7.6	7	28	28	1.8	110	88	60
405520	46-43.483	-104.028	-3-12-	5.2	5.9	9	4.7	9	24	24	0.6	120	95	85
405521	46-43.489	-104.041	-3-12-	3.7	4.5	9	6.4	11	18	23	1.2	90	89	69
405522	46-43.488	-104.020	-3-15-	5.5	6.5	9	17.	16	31	42	1.5	100	170	77
405523	46-43.540	-104.028	-3-15-	3.5	3.9	7	5.8	8	19	16	0.6	73	50	82
405524	46-43.546	-104.023	-3-15-	3.5	3.8	6	5.2	7	18	12	0.5	57	43	80
405525	46-43.545	-104.023	-3-15-	4.3	4.4	6	5.4	5	14	10	0.7	57	44	78
405526	46-43.518	-104.048	-3-12-	6.5	5.9	9	6.0	5	22	14	0.2	110	84	78
405527	46-43.517	-104.046	-3-12-	7.4	8.0	9	6.6	12	25	22	0.5	120	100	82
405528	46-43.509	-104.065	-3-15-	3.4	4.0	7	6.8	12	20	25	0.9	93	99	70
405529	46-43.501	-104.065	-3-15-	6.3	6.5	10	6.9	9	28	31	0.9	130	110	86
405530	46-43.505	-104.060	-3-15-	4.6	5.1	6	6.7	9	24	24	0.4	110	110	85

Table B-3, Continued

PARTIAL DATA LISTING FOR STREAM SEDIMENT OF THE EDGEMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

EDGEMONT DETAILED SURVEY SEDIMENTS

OR SAMPLE NUMBER	D. C. E. SAMPLE NUMBER ST LAT	LONG	L TY REP	U-FL (PPM)	U-NT (PPM)	TH (PPM)	AS (PPM)	CO (PPM)	CU (PPM)	NI (PPM)	SE (PPM)	V (PPM)	ZN (PPM)	ZR (PPM)
405531	46-43.498	-104.052	-3-12-	3.8	4.2	8	8.0	10	15	24	1.0	89	95	63
405532	46-43.521	-104.034	-3-15-	5.9	6.3	11	9.4	11	23	29	0.9	85	110	84
405533	46-43.478	-103.918	-3-15-	3.1	3.2	4	4.8	5	11	10	0.6	46	42	63
405534	46-43.462	-103.917	-3-15-	2.0	2.3	2	3.9	4	5	7	2.1	32	65	58
405535	46-43.461	-103.914	-3-15-	2.1	2.4	5	4.9	5	11	9	0.8	43	37	60
405536	46-43.459	-103.906	-3-15-	3.3	3.5	7	5.2	5	16	15	2.2	64	48	70
405537	46-43.458	-103.906	-3-15-	2.2	2.2	2	5.4	4	11	7	0.6	36	32	52
405538	46-43.473	-103.904	-3-15-	2.6	2.7	2	3.8	5	11	5	0.5	37	38	72
405539	46-43.476	-103.902	-3-15-	2.4	2.7	<2	3.3	4	11	8	0.4	37	41	77
405540	46-43.475	-103.900	-3-15-	2.6	5.1	3	3.4	4	12	10	0.5	36	53	74
405575	46-43.245	-103.783	-3-15-	3.7	3.3	10	5.0	5	16	20	0.8	92	69	63
405576	46-43.233	-103.767	-3-15-	3.7	3.5	7	5.7	5	19	22	1.0	90	67	54
405577	46-43.220	-103.752	-3-15-	3.6	3.6	5	3.4	5	15	15	0.7	94	83	63
405578	46-43.232	-103.757	-3-15-	3.4	3.9	12	5.6	6	21	27	1.1	100	76	50
405579	46-43.228	-103.735	-3-15-	5.3	6.0	12	6.4	6	24	22	0.9	110	66	65
405580	46-43.236	-103.716	-3-15-	5.5	6.4	7	5.9	10	20	27	0.8	92	100	69
405581	46-43.232	-103.725	-3-15-	5.3	5.6	8	6.4	7	19	17	0.8	80	72	57
405582	46-43.237	-103.751	-3-15-	4.1	5.6	7	6.8	5	20	25	1.4	85	72	50
405583	46-43.246	-103.775	-3-15-	2.5	3.4	10	5.5	6	21	21	1.2	86	84	62
405584	46-43.379	-103.801	-3-15-	3.8	5.6	12	6.1	5	20	20	0.4	85	65	81
405585	46-43.378	-103.799	-3-15-	5.6	7.7	9	3.6	7	12	14	0.8	55	42	82
405586	46-43.377	-103.803	-3-15-	230.	250.	11	15.	11	17	25	13.	360	58	72
405587	46-43.375	-103.808	-3-15-	5.8	6.3	7	4.1	6	10	5	0.5	47	36	71
405588	46-43.379	-103.812	-3-15-	130.	130.	11	84.	10	11	14	74.	390	42	76
405589	46-43.381	-103.814	-3-15-	98.	100.	13	88.	8	10	12	87.	470	38	70
405590	46-43.385	-103.811	-3-15-	4.6	4.5	11		8	13	19		66	54	86
405591	46-43.381	-103.835	-3-15-	4.7	4.2	11	6.1	7	16	16	3.0	78	64	83
405592	46-43.407	-103.842	-3-15-	5.3	4.7	53	4.4	14	15	19	1.6	57	25	63
405593	46-43.410	-103.836	-3-15-	52.	52.	53	4.5	15	16	20	3.5	85	38	77
405594	46-43.411	-103.833	-3-15-	36.	34.	8	3.4	11	15	30	2.5	96	61	91
405595	46-43.412	-103.833	-3-15-	27.	27.	3	3.6	4	11	5	2.0	65	28	66
405597	46-43.411	-103.839	-3-15-	49.	50.	6	3.5	4	10	8	8.1	110	26	63
405598	46-43.267	-103.671	-3-15-	3.9	3.6	4	3.8	6	12	13	1.2	55	44	76
405599	46-43.289	-103.661	-3-15-	5.8	6.4	10	4.7	6	13	12	0.8	55	50	64
405600	46-43.282	-103.658	-3-15-	3.0	3.6	6	3.2	10	12	13	0.4	45	48	61
405601	46-43.273	-103.654	-3-15-	2.9	6.2	5	4.2	7	17	13	0.5	52	49	59
405602	46-43.299	-103.648	-3-15-	1.3	1.7	3	1.9	4	8	7	0.2	32	29	45
405603	46-43.382	-103.647	-3-15-	2.5	3.6	5	3.2	6	14	14	0.4	56	63	62
405604	46-43.388	-103.669	-3-15-	7.3	8.8	5	2.1	6	14	11	0.8	51	56	52
405605	46-43.388	-103.662	-3-15-	2.7	3.7	7	2.9	10	16	22	0.4	76	56	71
405606	46-43.391	-103.657	-3-15-	2.5	3.5	6	2.9	9	15	19	0.4	63	47	68
405607	46-43.405	-103.649	-3-15-	22.	25.	6	4.1	7	13	12	1.3	56	36	61
405608	46-43.405	-103.650	-3-15-	20.	22.	5	3.5	6	12	11	0.6	73	34	64
405609	46-43.412	-103.667	-3-15-	4.4	5.3	3	3.1	5	7	8	0.5	32	15	32
405610	46-43.412	-103.659	-3-15-	12.	15.	4	3.4	5	10	11	1.2	56	29	58
405612	46-43.414	-103.665	-3-15-	2.5	2.4	<2	2.4	<4	5	3	0.2	22	14	45
405613	46-43.427	-103.662	-3-15-	4.9	6.5	<2	2.5	<4	6	5	0.5	28	16	47
405614	46-43.435	-103.652	-3-15-	1.8	1.8	4	2.9	4	5	5	1.2	21	16	35
405615	46-43.407	-103.678	-3-15-	2.4	3.4	10	2.4	6	11	12	0.1	52	44	66
405616	46-43.423	-103.679	-3-15-	1.9	2.4	2	2.9	<4	5	5	0.3	25	20	46
405617	46-43.425	-103.680	-3-15-	3.7	4.2	<2	2.1	4	8	7	0.1	36	22	46
405618	46-43.441	-103.688	-3-15-	1.0	1.6	<2	2.1	<4	7	7	1.7	24	16	35
405619	46-43.445	-103.688	-3-15-	1.7	2.1	2	2.7	<4	5	5	0.6	24	17	41
405620	46-43.448	-103.685	-3-15-	2.1	2.0	<2	2.5	<4	6	5	0.9	25	18	45
405621	46-43.449	-103.676	-3-15-	2.4	2.3	<2	3.7	5	8	7	1.8	27	25	52

Table B-3, Continued

PARTIAL DATA LISTING FOR STREAM SEDIMENT OF THE EDGEMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

EDGEMONT DETAILED SURVEY SEDIMENTS

OR SAMPLE NUMBER	D. C. E. SAMPLE NUMBER ST LAT LONG L TY REP	U-FL (PPM)	U-NT (PPM)	TH (PPM)	AS (PPM)	CO (PPM)	CL (PPM)	NI (PPM)	SE (PPM)	V (PPM)	ZN (PPM)	ZR (PPM)
405622	46-43.454 -103.886 -3-15-	1.9	2.0	4	2.1	4	7	6	0.2	25	18	40
405623	46-43.537 -103.991 -3-15-	2.8	3.6	<2	3.0	5	9	7	1.0	37	24	71
405624	46-43.537 -103.992 -3-15-	2.5	3.2	<2	2.6	4	8	7	1.0	40	32	57
405625	46-43.551 -103.978 -3-15-	1.9	1.8	2	1.9	5	10	12	1.6	42	42	56
405626	46-43.553 -103.978 -3-15-	1.9	1.9	5	2.0	5	11	13	0.6	44	44	55
405627	46-43.557 -103.981 -3-15-	2.2	1.9	3	2.1	5	11	12	0.5	45	53	55
405628	46-43.557 -103.977 -3-15-	1.5	1.9	6	3.4	7	13	18	0.2	48	36	60
405629	46-43.547 -103.974 -3-15-	1.8	2.2	7	2.6	7	14	14	0.6	60	67	67
405630	46-43.544 -103.968 -3-15-	2.9	2.9	6	4.5	9	19	21	1.0	65	67	62
405631	46-43.540 -103.967 -3-15-	2.6	2.2	4	3.4	6	13	16	0.9	46	42	66
405632	46-43.540 -103.966 -3-15-	2.5	2.2	5	2.2	4	9	12	0.6	35	31	65
405633	46-43.531 -103.968 -3-15-	2.8	3.4	5	2.6	7	17	17	0.4	69	71	80
405634	46-43.526 -103.966 -3-15-	3.8	4.3	3	2.7	6	17	14	0.4	69	70	78
405635	46-43.519 -103.968 -3-15-	2.1	2.6	4	3.2	5	10	9	0.4	40	36	68
405636	46-43.507 -103.974 -3-15-	3.9	5.7	9	7.8	7	16	14	0.7	89	65	78
405637	46-43.514 -103.953 -3-15-	1.1	2.0	6	1.6	5	10	7	0.2	41	27	48
405638	46-43.515 -103.953 -3-15-	2.4	3.3	3	2.8	5	11	9	0.4	43	39	81
405639	46-43.502 -103.977 -3-15-	2.3	3.0	9	5.0	11	19	26	0.3	79	68	67
405640	46-43.501 -103.985 -3-15-	2.0	2.6	6	4.0	8	17	22	0.6	64	57	68
405641	46-43.513 -103.980 -3-15-	2.2	2.7	50	3.3	17	21	27	0.4	60	50	82
405643	46-43.519 -103.985 -3-15-	2.5	3.3	46	7.6	14	19	19	0.6	52	43	69
405644	46-43.521 -103.986 -3-15-	3.8	4.5	6	5.9	5	10	10	0.9	51	32	61
405645	46-43.537 -103.929 -3-15-	1.6	2.0	5	2.6	5	11	12	0.1	41	37	68
405646	46-43.541 -103.936 -3-15-	1.9	2.6	4	3.2	8	17	17	0.4	63	63	73
405647	46-43.541 -103.938 -3-15-	2.0	2.6	6	2.9	7	16	19	<0.1	64	62	71
405648	46-43.546 -103.928 -3-15-	2.0	2.6	5	3.3	8	16	18	0.4	59	48	78
405649	46-43.545 -103.928 -3-15-	2.2	2.5	3	3.8	7	14	19	1.0	48	50	65
405650	46-43.551 -103.935 -3-15-	1.9	2.3	9	4.0	7	13	17	0.5	50	40	65
405651	46-43.550 -103.941 -3-15-	2.1	2.5	7	3.8	8	16	17	0.5	64	60	69
405652	46-43.549 -103.949 -3-15-	1.8	2.1	5	2.6	6	12	13	0.3	49	47	66
405653	46-43.546 -103.946 -3-15-	1.6	2.1	12	2.0	6	13	13	0.6	54	56	68
405654	46-43.548 -103.955 -3-15-	1.8	2.4	7	2.3	7	14	17	0.4	61	63	69
405683	46-43.469 -103.925 -3-15-	2.3	3.1	5	2.7	6	12	11	0.6	46	43	65
405684	46-43.460 -103.927 -3-15-	1.4	2.1	3	4.1	4	9	8	0.8	33	32	55
405685	46-43.458 -103.930 -3-15-	2.6	3.0	4	3.9	6	13	14	0.7	55	47	73
405686	46-43.445 -103.932 -3-15-	2.1	3.3	6	3.2	7	14	14	0.3	63	46	78
405687	46-43.442 -103.935 -3-15-	3.2	3.8	7	3.1	8	15	16	0.2	62	39	78
405689	46-43.439 -103.934 -3-15-	2.0	2.8	4	3.3	6	12	13	0.4	51	39	71
405690	46-43.460 -103.920 -3-15-	1.8	2.4	5	3.2	5	10	11	0.6	45	34	54
405841	46-43.573 -103.977 -3-15-	1.7	2.0	6	3.7	5	10	14	0.2	36	38	55
405842	46-43.565 -103.979 -3-15-	1.6	2.3	12	3.4	6	10	15	0.2	37	33	65
405843	46-43.565 -103.981 -3-15-	2.0	2.4	4	3.5	6	12	15	0.3	38	33	77
405844	46-43.566 -103.988 -3-15-	1.8	2.2	6	3.8	6	13	14	<0.1	38	32	67
405845	46-43.564 -103.986 -3-15-	2.1	2.8	4	3.6	8	11	13	<0.1	36	29	81
405846	46-43.550 -103.975 -3-15-	2.3	3.4	7	4.9	9	19	23	0.5	67	60	74
405847	46-43.550 -103.973 -3-15-	3.1	3.7	6	6.9	12	24	27	0.4	86	110	65
405848	46-43.571 -103.954 -3-15-	1.4	2.0	3	3.1	4	8	8	0.2	32	32	48
405849	46-43.592 -103.944 -3-15-	2.3	2.7	4	3.6	5	10	14	0.3	38	36	74
405850	46-43.592 -103.946 -3-15-	3.0	3.3	8	4.1	8	16	21	0.3	55	57	67
405851	46-43.568 -103.954 -3-15-	2.3	2.7	4	3.4	4	10	12	<0.1	34	32	98
405852	46-43.557 -103.946 -3-15-	1.6	2.1	5	3.1	5	10	11	0.3	36	47	62
405853	46-43.552 -103.958 -3-12-	2.5	3.0	8	4.7	8	16	20	0.4	60	52	80
405854	46-43.552 -103.931 -3-15-	2.0	2.7	6	3.1	5	11	14	0.2	41	36	61
405855	46-43.553 -103.929 -3-12-	2.5	3.1	5	5.0	9	18	24	<0.1	64	58	80
405856	46-43.554 -103.931 -3-15-	1.8	2.6	8	4.4	8	16	19	0.2	56	46	66

Table B-3, Continued

PARTIAL DATA LISTING FOR STREAM SEDIMENT OF THE EDGEMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

EDGEMONT DETAILED SURVEY SEDIMENTS

OR SAMPLE NUMBER	D. U. E. SAMPLE NUMBER ST LAT	LONG	L TY REP	U-FL (PPM)	U-NT (PPM)	TH (PPM)	AS (PPM)	CO (PPM)	CU (PPM)	NI (PPM)	SE (PPM)	V (PPM)	ZN (PPM)	ZR (PPM)
405857	46-43.556	-103.912	-3-12-	1.9	2.6	6	4.4	7	14	17	0.2	53	47	70
405858	46-43.556	-103.908	-3-12-	2.3	3.0	7	4.9	9	17	21	<0.1	60	58	69
405859	46-43.552	-103.912	-3-15-	1.2	2.3	6	2.7	6	14	13	0.4	45	43	62
405860	46-43.545	-103.902	-3-15-	1.6	2.2	3	3.1	6	14	12	0.5	40	45	65
405861	46-43.518	-103.906	-3-15-	2.0	2.7	2	1.8	4	9	7	<0.1	35	39	54
405862	46-43.517	-103.906	-3-15-	2.3	2.6	2	2.5	4	9	8	1.9	37	38	63
405863	46-43.514	-103.883	-3-15-	2.1	2.7	<2	4.1	4	9	8	0.2	35	39	58
405864	46-43.512	-103.883	-3-15-	2.6	3.1	4	3.3	4	10	9	0.6	40	59	62
405865	46-43.542	-103.899	-3-15-	1.7	1.8	4	2.0	8	10	13	<0.1	42	39	67
405866	46-43.542	-103.897	-3-15-	1.8	2.1	<2	2.3	5	9	13	0.4	40	37	72
405868	46-43.507	-103.869	-3-15-	2.6	3.1	7	1.9	5	13	13	0.6	54	55	66
405869	46-43.509	-103.862	-3-15-	1.7	2.1	6	1.7	4	12	10	0.4	44	55	63
405870	46-43.509	-103.863	-3-15-	1.9	1.9	9	2.0	5	12	11	0.3	46	55	66
405872	46-43.396	-103.912	-3-15-	2.0	3.5	3	9.0	4	12	9	0.1	37	38	61
405873	46-43.395	-103.910	-3-15-	2.6	3.4	10	3.1	7	20	17	0.3	64	71	75
405874	46-43.406	-103.919	-3-15-	2.3	2.8	4	2.7	4	11	8	0.3	37	39	65
406421	46-43.441	-103.967	-3-15-	2.9	3.8	7	5.1	6	15	17	0.2	60	72	78
406422	46-43.441	-103.966	-3-15-	2.9	3.7	6	5.4	9	24	20	0.7	100	86	84
406423	46-43.434	-103.955	-3-15-	4.5	5.1	12	4.5	10	25	27	0.2	110	91	100
406424	46-43.440	-103.952	-3-15-	3.1	3.8	9	3.8	10	20	20	0.1	70	54	83
406425	46-43.438	-103.951	-3-15-	2.6	3.5	8	4.7	14	23	24	0.8	66	63	74
406426	46-43.450	-103.949	-3-15-	5.1	5.5	24	5.5	21	31	44	0.4	130	92	110
406428	46-43.436	-103.957	-3-15-	4.0	4.1	21	5.5	14	26	26	0.6	97	86	96
406429	46-43.445	-103.968	-3-15-	2.4	3.2	7	4.8	8	18	16	0.4	81	73	78
406431	46-43.431	-103.967	-3-15-	3.0	3.7	5	5.1	6	14	14	0.5	60	66	61
406435	46-43.391	-103.913	-3-12-	2.2	3.5	3	1.9	7	15	14	0.4	62	59	75
406436	46-43.384	-103.911	-3-12-	2.1	3.4	7	2.9	7	16	13	0.4	65	61	77
406437	46-43.390	-103.909	-3-15-	1.8	2.8	3	2.2	4	14	10	0.7	50	47	59
406490	46-43.272	-103.745	-3-12-	2.6	3.3	7	3.9	7	15	16	0.4	70	54	73
406491	46-43.270	-103.745	-3-12-	3.4	4.1	9	5.3	8	21	22	0.3	96	79	77
406492	46-43.266	-103.746	-3-12-	6.5	7.4	8	7.1	19	32	73	0.6	130	150	88
406493	46-43.266	-103.745	-3-15-	3.0	3.6	7	4.7	12	20	19	3.1	90	76	74
406494	46-43.262	-103.718	-3-15-	2.4	3.2	6	3.7	6	11	9	0.8	45	37	60
406495	46-43.253	-103.714	-3-15-	2.2	3.2	6	4.2	5	10	13	0.2	53	55	37

APPENDIX C

FIELD FORM AND DETECTION LIMITS

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APPENDIX C

FIELD FORM AND DETECTION LIMITS

LIST OF TABLES

Table C-1

COMPUTER CODE LIST OF GEOCHEMICAL VARIABLES

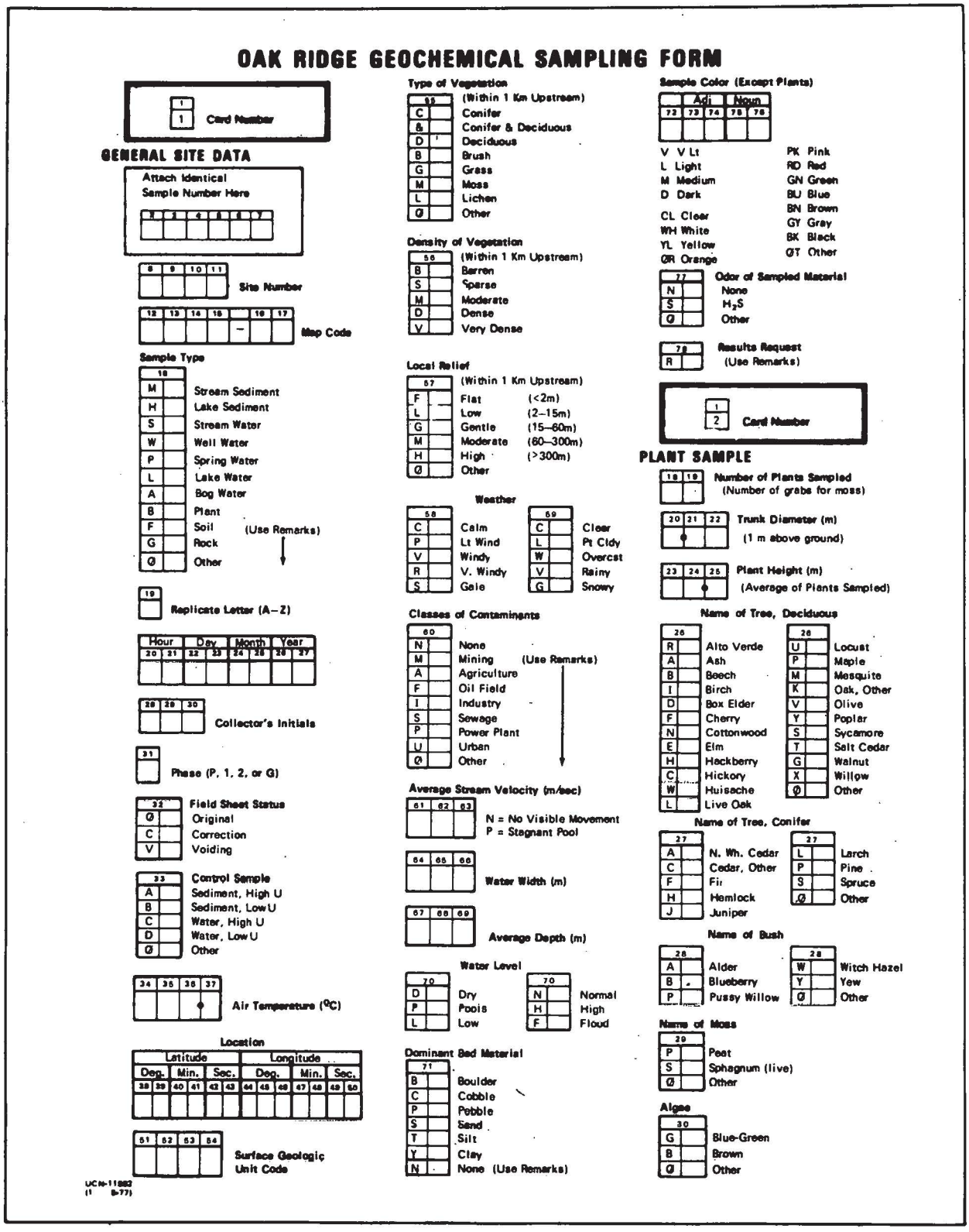
Variable[a]	Code	Variable[a]	Code
Uranium Measured by Fluorometry[b]	U-FL	Yttrium	Y
Uranium Measured by Mass Spectrometry[b]	U-MS	Zinc	ZN
Uranium Measured by Neutron Activation	U-NT	Zirconium	ZR
Arsenic	AS	Sulfate (ppm)	SO, SO_4
Selenium	SE	Chloride (ppm)	CL
Silver	AG	Fluoride (ppm)	F
Aluminum	AL	Specific Conductance (μmhos/cm)	SP
Boron	B	Dissolved Oxygen (ppm)	DO
Barium	BA	Temperature (°C)	TP, TEMP
Beryllium	BE	pH	PH
Calcium	CA	Total Alkalinity (ppm)	T-AK
Cerium	CE	P Alkalinity (ppm)	P-AK, LIP
Cobalt	CO	M Alkalinity (ppm)	M-AK
Chromium	CR	Carbonate (ppm)	CB
Copper	CU	$CB = \begin{cases} 0 & \text{if } pH \leq 8.3 \\ \frac{3.42 \times \text{M-Alkalinity}}{5.61 + 10^{(11-pH)}} & \text{if } pH > 8.3 \end{cases}$	
Iron	FE		
Hafnium	HF	Bicarbonate (ppm)	BC
Mercury	HG	$BC = \begin{cases} \frac{2.62 \times \text{M-Alkalinity}}{4.3 + 10^{(7-pH)}} & \text{if } pH \leq 8.3 \\ 0.61 \times \text{M-Alkalinity} - CB & \text{if } pH > 8.3 \end{cases}$	
Potassium	K		
Lanthanum	LA		
Lithium	LI	U-NT/U-FL	U/U, TU/U
Magnesium	MG	U-FL/U-NT	U/TU
Manganese	MN	TH/U-NT	TH/U
Molybdenum	MO	1,000·U/SP	U/SP
Sodium	NA	1,000·U/B	U/B
Niobium	NB	1,000·U/SO	U/SO, USO
Nickel	NI	Sodium/Chloride	NA/C
Phosphorus	P	Helium/Neon	H/N
Lead	PB	Total Alkalinity/Sulfate	A/SO
Platinum	PT	Total Gamma (cps)	TGAM
Radon	RN	Equivalent Uranium (ppm)	EU
Scandium	SC	Counts Per Minute Uranium (cpm)	CPU
Silicon	SI	Equivalent Potassium (%)	EK
Tin	SN	Counts Per Minute Potassium (cpm)	CPK
Strontium	SR	Equivalent Thorium (ppm)	ETH
Thorium	TH	Counts Per Minute Thorium (cpm)	CPTH
Titanium	TI	Total Counts (cpm)	TOT
Vanadium	V		

(a) If natural logarithm of variable is used, L or L- precedes the variable code.

(b) If method is not specified for waters, U-FL is used, except where value is below laboratory detection limit in which case U-MS is substituted if it is available.

Table C-2

OAK RIDGE GEOCHEMICAL SAMPLING FORM
SHOWING FIELD DATA RECORDED ON MICROFICHE



OAK RIDGE GEOCHEMICAL SAMPLING FORM

Card Number (1 / 1)

GENERAL SITE DATA

Attach Identical Sample Number Here (1–6)

Site Number (8–11)

Map Code (12–14, 15–16, –, 16–17)

Sample Type (18)
M Stream Sediment
H Lake Sediment
S Stream Water
W Well Water
P Spring Water
L Lake Water
A Bog Water
B Plant
F Soil (Use Remarks)
G Rock
Ø Other

Replicate Letter (A–Z) (19)

Hour (20–21) Day (22–23) Month (24–25) Year (26–27)

Collector's Initials (28–30)

Phase (P, 1, 2, or G) (31)

Field Sheet Status (32)
Ø Original
C Correction
V Voiding

Control Sample (33)
A Sediment, High U
B Sediment, Low U
C Water, High U
D Water, Low U
Ø Other

Air Temperature (°C) (34–37)

Location
Latitude: Deg. (38–39) Min. (40–41) Sec. (42–43)
Longitude: Deg. (44–45) Min. (46–47) Sec. (48–49)

Surface Geologic Unit Code (51–54)

UCN-11882 (1 5-77)

Type of Vegetation (55) (Within 1 Km Upstream)
C Conifer
& Conifer & Deciduous
D Deciduous
B Brush
G Grass
M Moss
L Lichen
Ø Other

Density of Vegetation (56) (Within 1 Km Upstream)
B Barren
S Sparse
M Moderate
D Dense
V Very Dense

Local Relief (57) (Within 1 Km Upstream)
F Flat (<2m)
L Low (2–15m)
G Gentle (15–60m)
M Moderate (60–300m)
H High (>300m)
Ø Other

Weather
(58)
C Calm
P Lt Wind
V Windy
R V. Windy
S Gale
(59)
C Clear
L Pt Cldy
W Overcst
V Rainy
G Snowy

Classes of Contaminants (60)
N None
M Mining (Use Remarks)
A Agriculture
F Oil Field
I Industry
S Sewage
P Power Plant
U Urban
Ø Other

Average Stream Velocity (m/sec) (61–63)
N = No Visible Movement
P = Stagnant Pool

Water Width (m) (64–66)

Average Depth (m) (67–69)

Water Level (70)
D Dry
P Pools
L Low
(70)
N Normal
H High
F Flood

Dominant Bed Material (71)
B Boulder
C Cobble
P Pebble
S Sand
T Silt
Y Clay
N None (Use Remarks)

Sample Color (Except Plants) (72–73 Adj, 74–75 Noun, 76)
V V Lt
L Light
M Medium
D Dark
CL Clear
WH White
YL Yellow
ØR Orange
PK Pink
RD Red
GN Green
BU Blue
BN Brown
GY Gray
BK Black
ØT Other

Odor of Sampled Material (77)
N None
S H_2S
Ø Other

Results Request (78)
R (Use Remarks)

Card Number (1 / 2)

PLANT SAMPLE

Number of Plants Sampled (18–19) (Number of grabs for moss)

Trunk Diameter (m) (20–22) (1 m above ground)

Plant Height (m) (23–25) (Average of Plants Sampled)

Name of Tree, Deciduous (26)
R Alto Verde
A Ash
B Beech
I Birch
D Box Elder
F Cherry
N Cottonwood
E Elm
H Heckberry
C Hickory
W Huisache
L Live Oak
U Locust
P Maple
M Mesquite
K Oak, Other
V Olive
Y Poplar
S Sycamore
T Salt Cedar
G Walnut
X Willow
Ø Other

Name of Tree, Conifer (27)
A N. Wh. Cedar
C Cedar, Other
F Fir
H Hemlock
J Juniper
L Larch
P Pine
S Spruce
Ø Other

Name of Bush (28)
A Alder
B Blueberry
P Pussy Willow
W Witch Hazel
Y Yew
Ø Other

Name of Moss (29)
P Peat
S Sphagnum (live)
Ø Other

Algae (30)
G Blue-Green
B Brown
Ø Other

Table C-2, Continued

OAK RIDGE GEOCHEMICAL SAMPLING FORM
SHOWING FIELD DATA RECORDED ON MICROFICHE

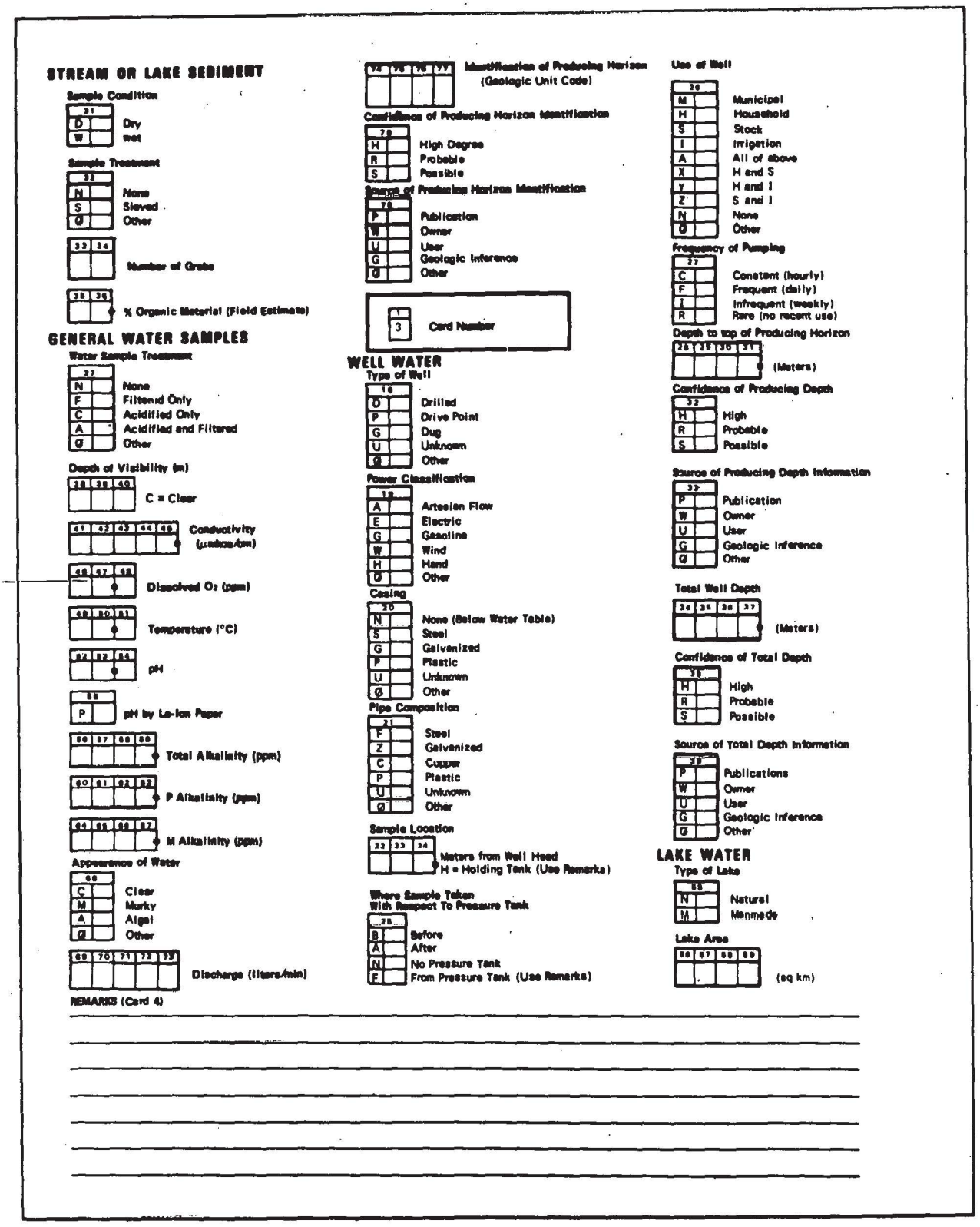


Table C-2, Continued

OAK RIDGE GEOCHEMICAL SAMPLING FORM
SHOWING FIELD DATA RECORDED ON MICROFICHE

OAK RIDGE GEOCHEMICAL SAMPLING FORM
FIELD DATA SUPPLEMENT

Attach Identical Sample Number Here

Sequence Number: 1

Procedure Number:

Results for Procedure 31

Total Gamma - Scintillometer (counts/minute)

Results for Procedures 34-41

Variables and Procedures are listed below

Results for Precedure 32 Gamma Spectrometer

TOTAL COUNTS (CPM)

e POTASSIUM (%)

POTASSIUM (CPM)

e URANIUM (ppm)

URANIUM (CPM)

e THORIUM (ppm)

THORIUM (CPM)

Note To Sampler: Blocks 16-20 Not Used Should Be Marked Out.

DO NOT KEYPUNCH

Procedures 34–41

34 Uranium (ppb)
35 Fluoride (ppm)
36 Nitrate (ppm)
37 Sulphate (ppm)
38 Phosphate (ppm)
39 Ferrous Iron (ppm)
40 Total Iron (ppm)
41 Turbidity (% T)

Readings made in Counts per _____

VARIABLE	READING		BACKGROUND		RESULTS
	ACTUAL	CPM	ACTUAL	CPM	
TOTAL COUNTS					
POTASSIUM					
URANIUM					
THORIUM					

UCN-11992A
(1 3-79)

APPENDIX D

MICROFICHE OF FIELD AND LABORATORY DATA

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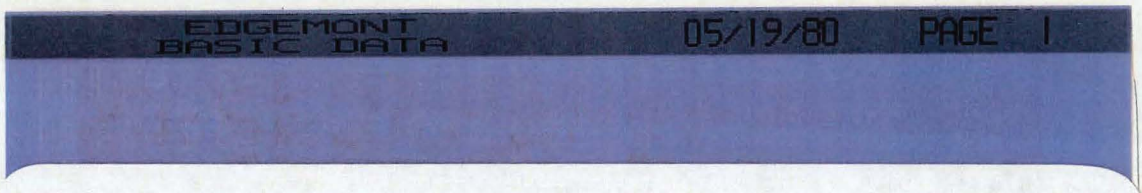
MICROFICHE OF FIELD AND LABORATORY DATA

CONTENTS



NRC-084-F

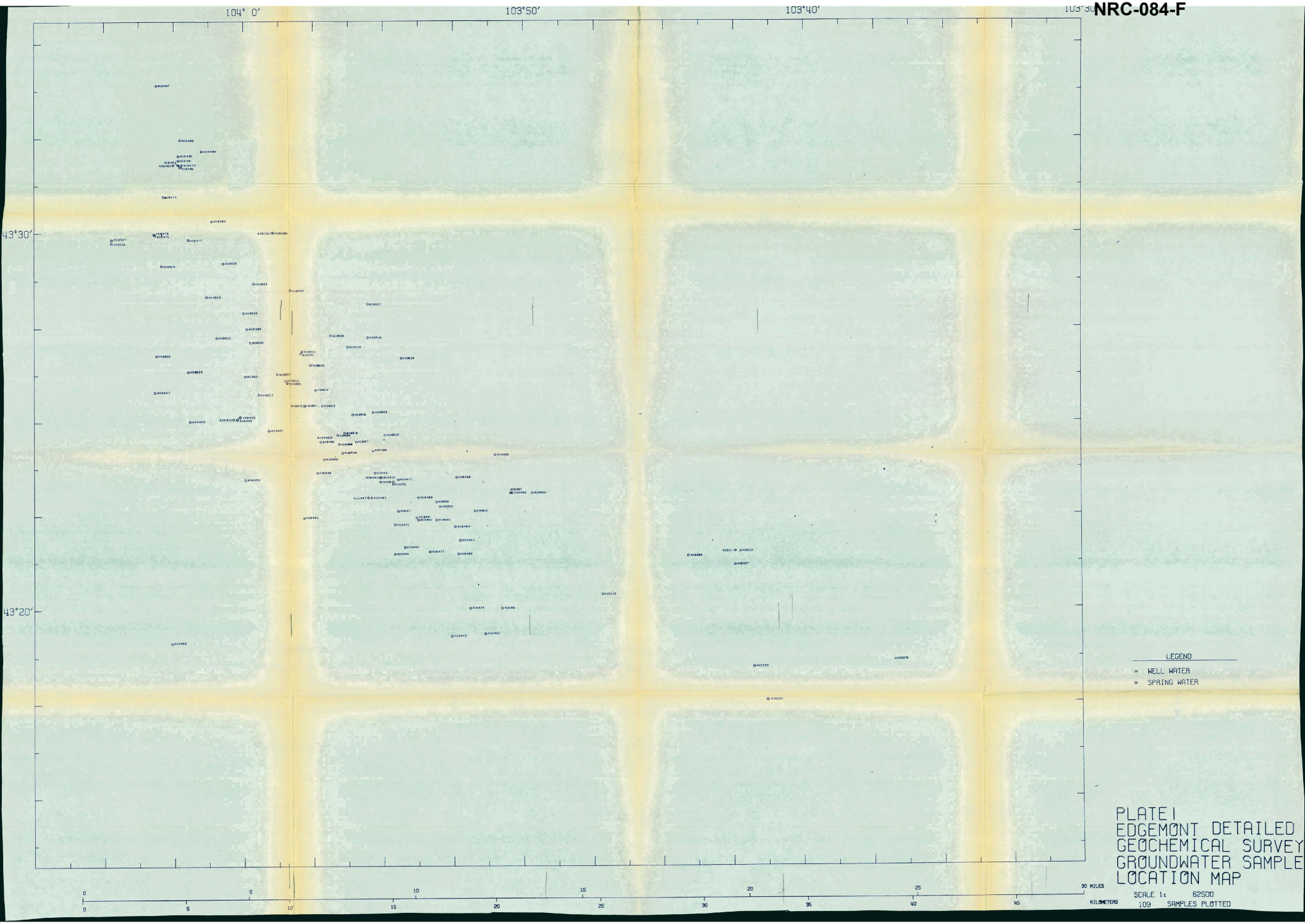
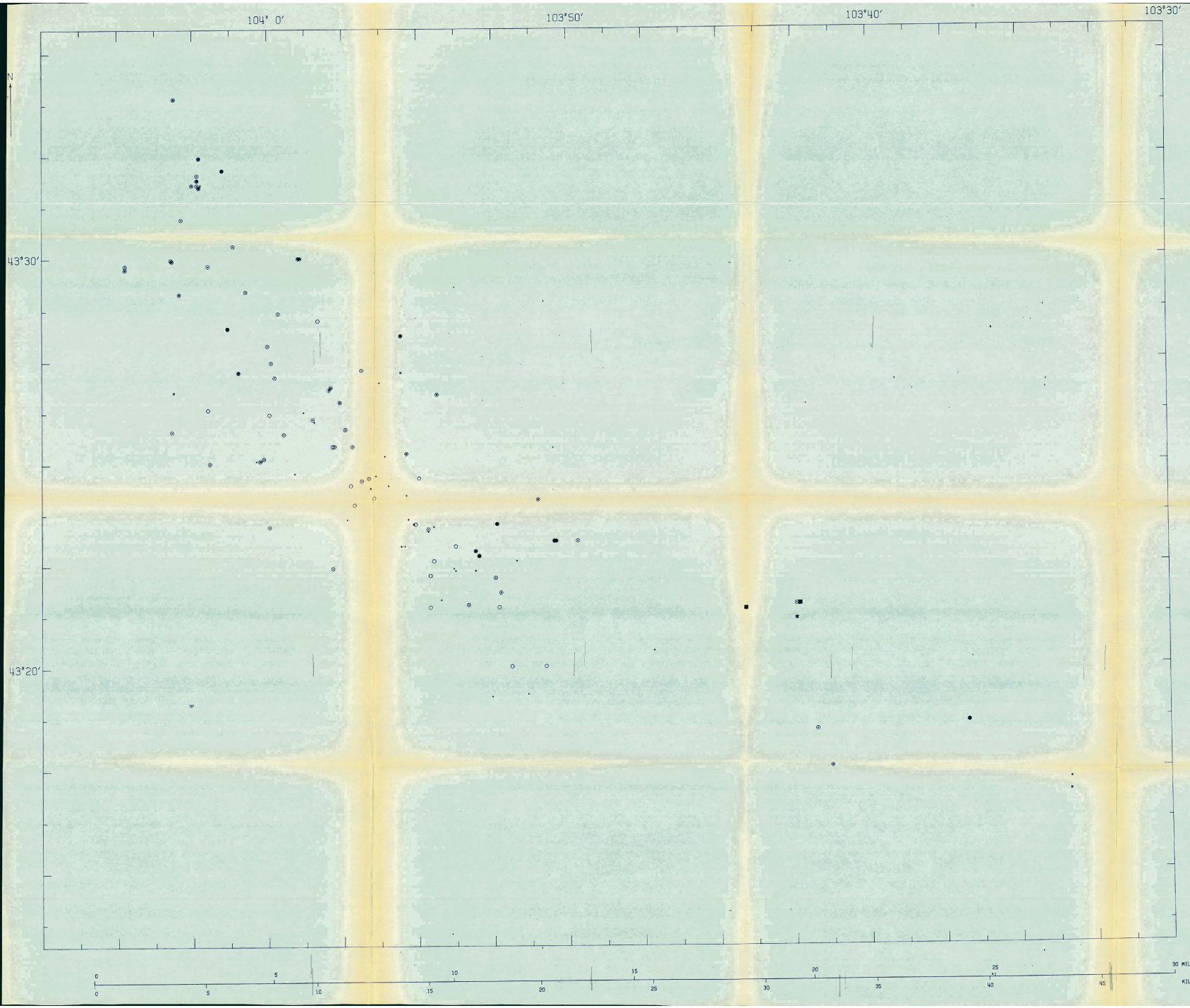


PLATE I
EDGEMONT DETAILED
GEOCHEMICAL SURVEY
GROUNDWATER SAMPLE
LOCATION MAP

SCALE 1: 62500
109 SAMPLES PLOTTED



SYMBOL RANGES FOR PLOTTED VARIABLE (X)

.	0.0	≤ X <	0.20
.	0.20	≤ X <	0.25
○	0.25	≤ X <	0.43
◎	0.43	≤ X <	0.76
◎	0.76	≤ X <	2.83
◉	2.83	≤ X <	7.35
◉	7.35	≤ X <	15.24
●	15.24	≤ X <	22.17
●	22.17	≤ X <	36.54
■	36.54	≤ X <	74.22
★	X	≥	74.22

PLATE 2
EDGEMONT DETAILED GEOCHEMICAL SURVEY
SYMBOL PLOT GROUNDWATER
URANIUM (PPB)

SCALE 1: 62500

109 SAMPLES PLOTTED

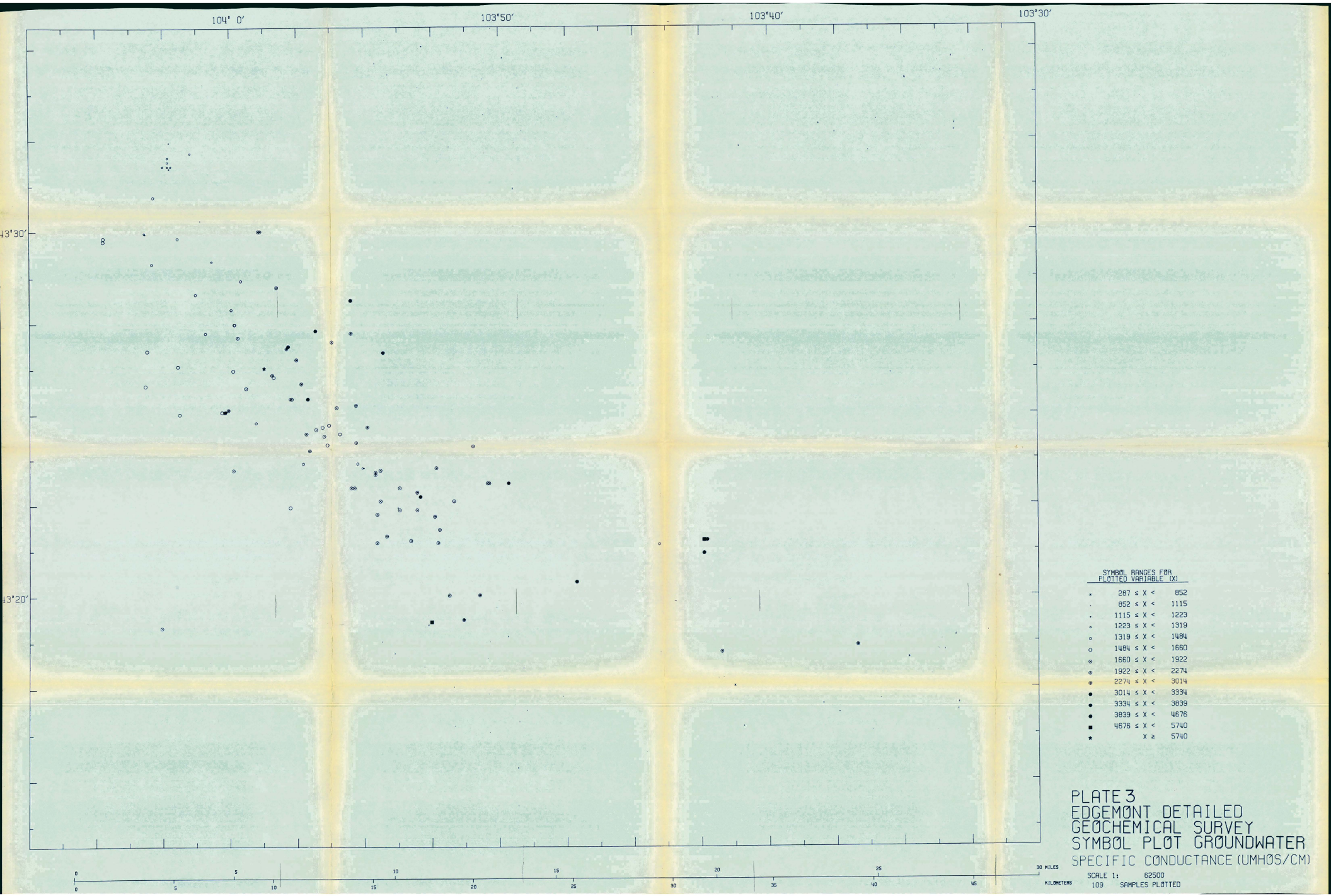


PLATE 3
EDGEMONT DETAILED GEOCHEMICAL SURVEY
SYMBOL PLOT GROUNDWATER
SPECIFIC CONDUCTANCE (UMHOS/CM)

SCALE 1: 62500

109 SAMPLES PLOTTED

NRC-084-F

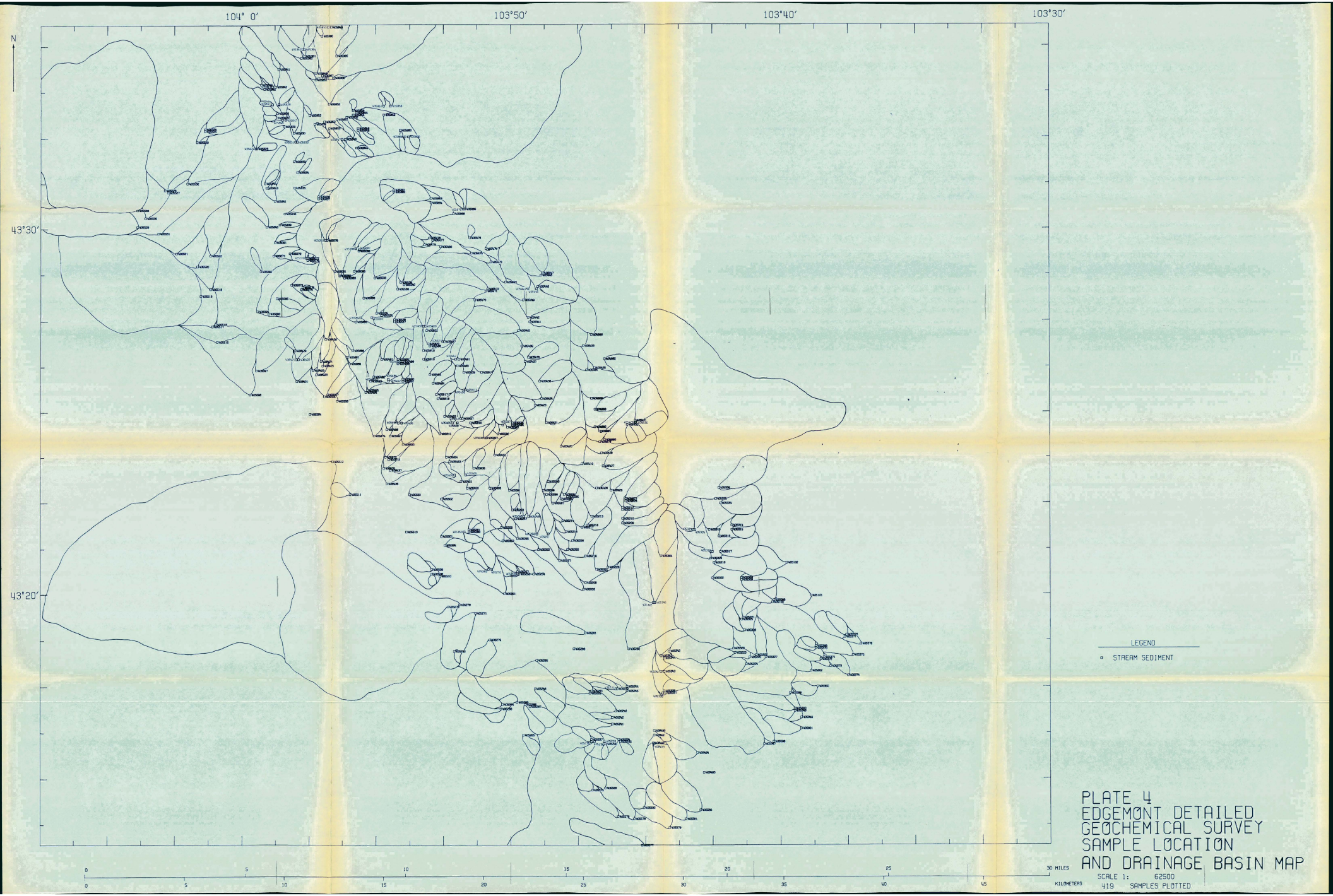
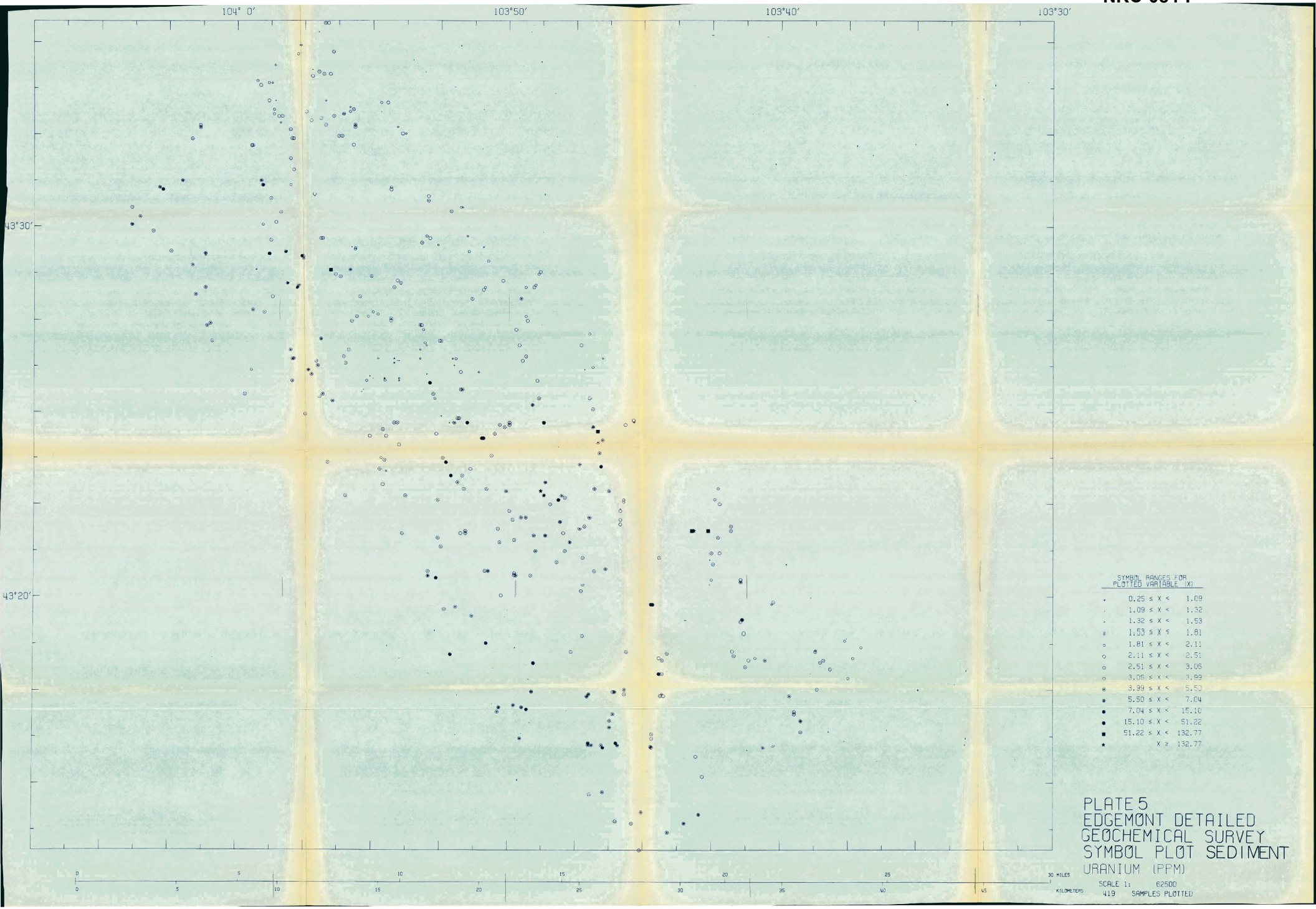


PLATE 4
EDGEMONT DETAILED
GEOCHEMICAL SURVEY
SAMPLE LOCATION
AND DRAINAGE BASIN MAP

SCALE 1: 62500

419 SAMPLES PLOTTED

NRC-084-F


104° 0′
103°50′
103°40′
103°30′
43°30′
43°20′
SYMBOL RANGES FOR PLOTTED VARIABLE (X)
0.25 ≤ X < 1.09
1.09 ≤ X < 1.32
1.32 ≤ X < 1.53
1.53 ≤ X < 1.81
1.81 ≤ X < 2.11
2.11 ≤ X < 2.51
2.51 ≤ X < 3.06
3.06 ≤ X < 3.99
3.99 ≤ X < 5.50
5.50 ≤ X < 7.04
7.04 ≤ X < 15.10
15.10 ≤ X < 51.22
51.22 ≤ X < 132.77
X ≥ 132.77
PLATE 5
EDGEMONT DETAILED GEOCHEMICAL SURVEY
SYMBOL PLOT SEDIMENT
URANIUM (PPM)
SCALE 1: 62500
419 SAMPLES PLOTTED
0 5 10 15 20 25 30 MILES
0 5 10 15 20 25 30 35 40 45 KILOMETERS

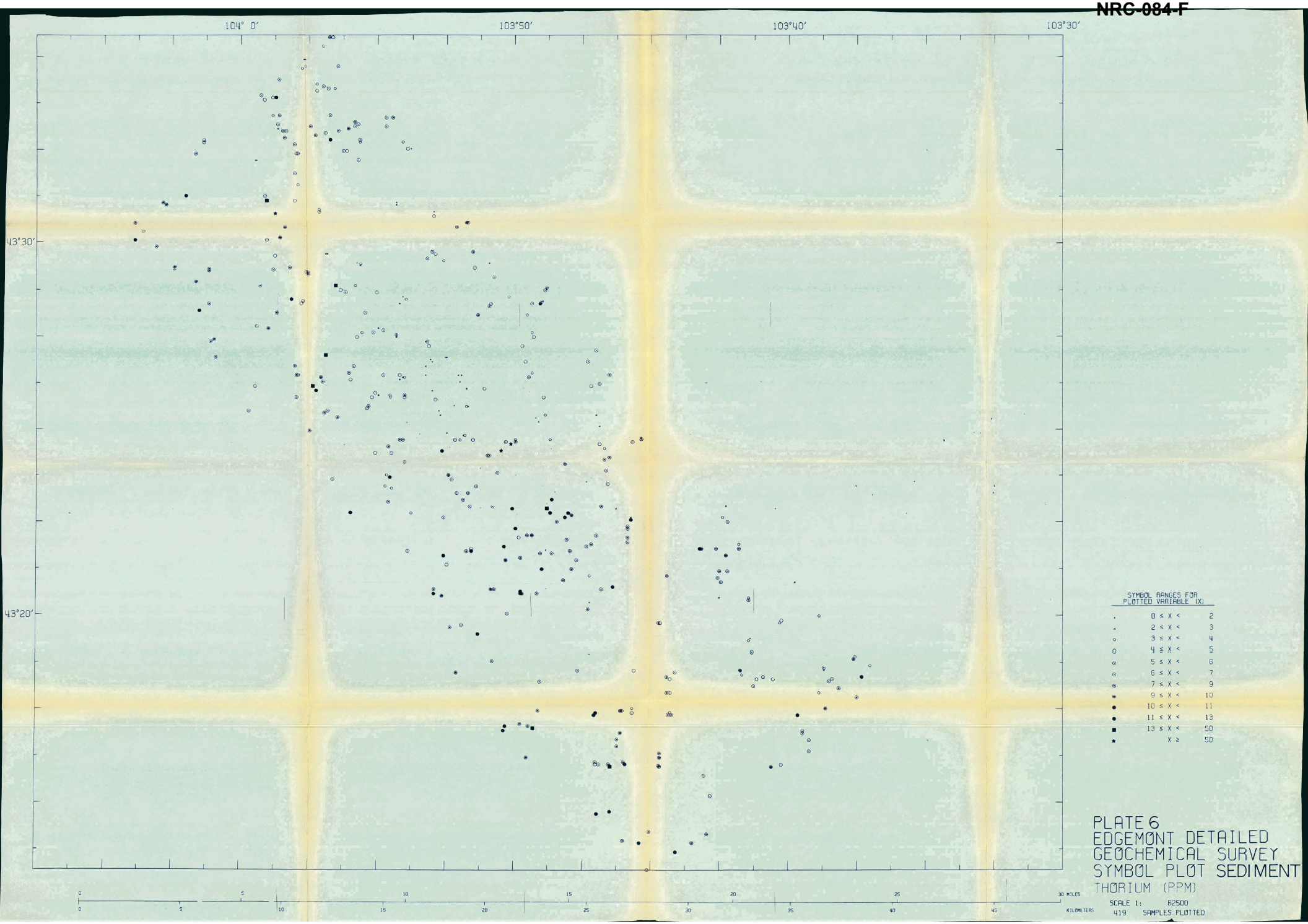
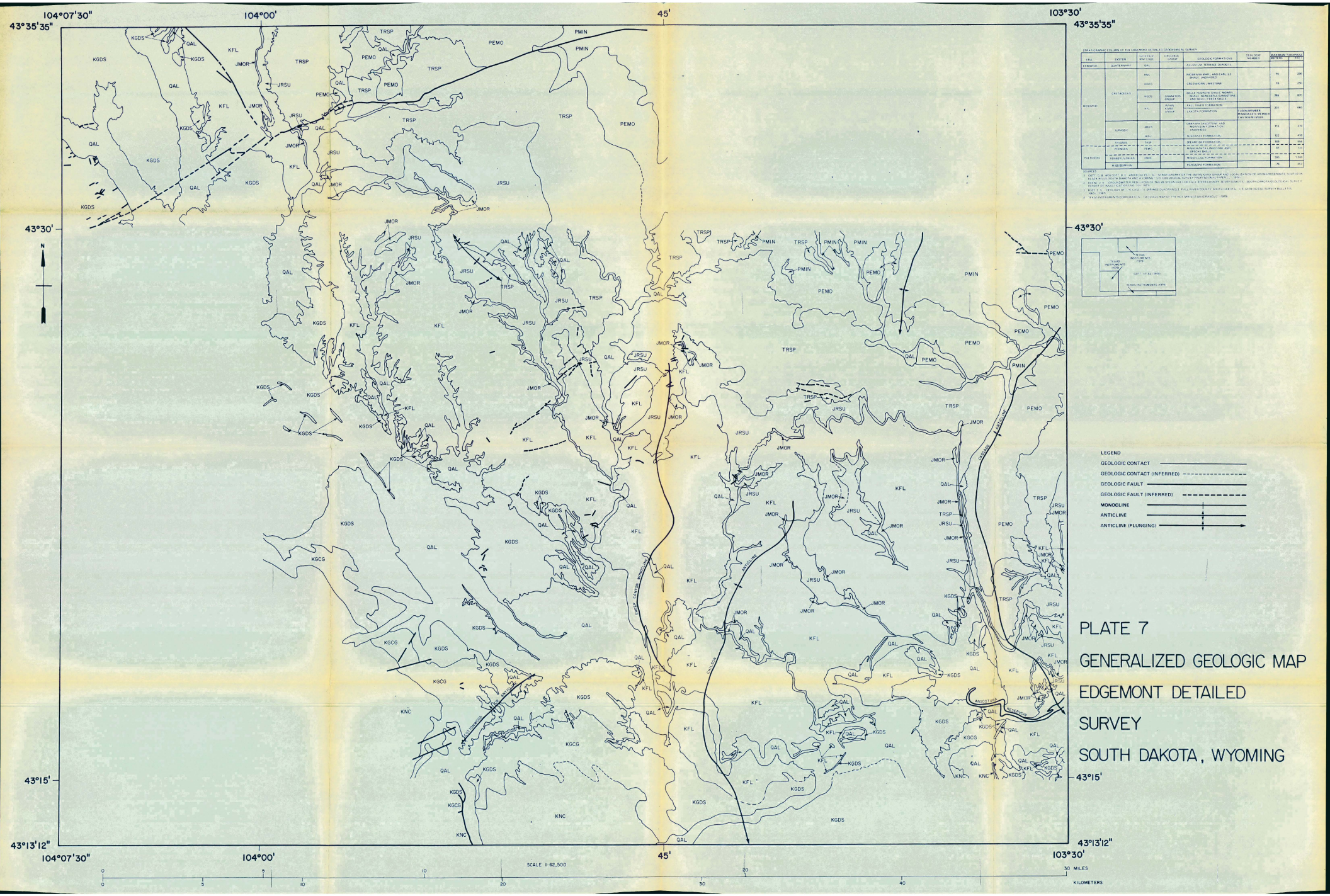


PLATE 6
EDGEMONT DETAILED GEOCHEMICAL SURVEY
SYMBOL PLOT SEDIMENT
THORIUM (PPM)

SCALE 1: 62500

419 SAMPLES PLOTTED

NRC-084-F


104°07'30"
104°00'
45'
103°30'
43°35'35"
43°30'
43°15'
43°13'12"
N
LEGEND
GEOLOGIC CONTACT
GEOLOGIC CONTACT (INFERRED)
GEOLOGIC FAULT
GEOLOGIC FAULT (INFERRED)
MONOCLINE
ANTICLINE
ANTICLINE (PLUNGING)
PLATE 7
GENERALIZED GEOLOGIC MAP
EDGEMONT DETAILED
SURVEY
SOUTH DAKOTA, WYOMING
SCALE 1:62,500
30 MILES
KILOMETERS