



Chemex Labs Ltd.

Analytical Chemists

Geochemists

Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Telephone: (604) 984-0221
Telex: 043-52597

CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 2W2

CERT. # : A8619451-001-A
INVOICE # : I8619451
DATE : 29-OCT-86
P.O. # : NONE
DAWSON-AOR-PLINC

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :
ATTN: ART TROUP CC: P. GRUNENBERG

Sample description	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn
	Z	ppm	ppm	ppm	ppm	ppm	Z	ppm	ppm	ppm	ppm	Z	ppm	Z	ppm	Z	ppm	ppm	Z	ppm	ppm	ppm	ppm	ppm	Z	ppm	ppm	ppm	ppm	ppm
37471 F	1.44	0.2	5	110	<0.5	<2	1.91	<0.5	15	42	38	3.07	10	0.22	10	1.61	1255	1	<0.01	29	680	14	<5	28	0.11	<10	<10	29	<5	100
37472 F	1.14	0.8	5	110	<0.5	<2	3.03	<0.5	12	35	43	2.48	10	0.22	<10	1.26	992	1	<0.01	26	540	32	<5	48	0.11	<10	<10	16	<5	78
37473 F	2.30	2.2	<5	210	<0.5	<2	2.49	<0.5	21	55	45	3.89	10	0.33	10	2.13	909	<1	0.01	30	610	280	<5	27	0.14	<10	<10	43	<5	102
37474 F	2.26	0.4	10	190	<0.5	<2	3.30	0.5	19	46	60	3.58	10	0.33	10	2.15	1246	<1	0.01	26	550	16	<5	39	0.12	<10	<10	42	<5	154
37475 F	2.00	0.4	15	190	<0.5	<2	2.92	<0.5	19	39	50	3.41	10	0.25	10	1.84	1023	<1	0.01	26	540	6	<5	29	0.10	<10	<10	33	<5	80
37476 F	2.06	0.4	30	200	<0.5	<2	2.68	<0.5	20	40	31	3.48	10	0.42	10	1.97	1067	<1	0.01	25	610	32	<5	27	0.10	<10	<10	31	<5	94
37477 F	1.59	0.4	15	80	<0.5	<2	3.70	<0.5	18	31	40	3.40	10	0.17	<10	1.74	1308	<1	<0.01	21	500	26	<5	39	0.08	<10	<10	25	<5	82
37478 F	1.32	0.4	10	120	<0.5	<2	1.83	3.0	16	34	64	3.11	<10	0.23	10	1.54	1012	1	<0.01	29	700	22	<5	19	0.09	<10	<10	18	<5	318
37479 F	1.58	0.2	45	130	<0.5	<2	1.40	<0.5	15	52	46	3.09	<10	0.24	10	1.68	1320	1	0.01	38	760	14	<5	17	0.09	<10	<10	26	<5	138
37480 F	1.59	0.8	35	190	<0.5	<2	1.74	1.0	14	53	64	2.99	10	0.37	10	1.61	1049	1	0.01	37	740	46	<5	22	0.11	<10	<10	30	<5	188
37481 F	1.33	0.8	5	170	<0.5	<2	2.22	1.0	15	44	62	3.07	10	0.33	<10	1.44	1032	<1	0.01	37	730	32	<5	29	0.11	<10	<10	23	<5	132
37482 F	1.29	1.0	15	110	<0.5	<2	2.31	<0.5	15	41	39	2.84	10	0.23	<10	1.49	1113	1	<0.01	36	700	46	<5	27	0.08	<10	<10	21	<5	76
37483 F	1.49	2.4	30	140	<0.5	<2	2.32	<0.5	19	42	29	3.09	10	0.28	10	1.62	934	<1	<0.01	37	690	80	<5	24	0.01	<10	<10	22	<5	36
37484 F	1.50	0.2	10	160	<0.5	<2	1.70	<0.5	15	43	38	3.22	<10	0.32	20	1.36	589	1	<0.01	39	750	14	<5	16	<0.01	<10	<10	24	<5	38
37485 F	1.69	0.2	35	140	<0.5	<2	1.79	<0.5	18	62	63	3.75	<10	0.28	20	1.57	647	1	0.01	51	750	2	<5	15	<0.01	<10	<10	29	<5	52
37486 F	1.64	0.4	25	160	<0.5	<2	2.25	<0.5	15	49	34	2.88	10	0.32	10	1.53	792	1	0.01	35	730	16	<5	19	0.01	<10	<10	27	<5	40
37487 F	1.81	0.6	5	210	<0.5	<2	2.16	<0.5	16	38	38	2.86	10	0.40	20	1.55	638	<1	0.02	28	660	13	<5	22	0.01	<10	<10	25	<5	54
37488 F	1.88	1.6	75	210	<0.5	<2	1.99	3.0	17	49	44	3.16	<10	0.39	20	1.70	768	1	0.01	34	700	84	<5	21	0.01	<10	<10	34	<5	236
37489 F	2.08	0.4	105	210	<0.5	<2	2.61	1.0	18	54	56	3.39	10	0.39	20	1.93	1088	1	0.01	36	760	42	<5	27	0.01	<10	<10	32	<5	204
37490 F	1.42	0.4	90	140	<0.5	<2	3.57	<0.5	16	82	43	2.83	10	0.25	<10	1.54	1367	1	0.01	83	660	42	<5	41	<0.01	<10	<10	24	<5	96
37491 F	1.78	0.8	5	160	<0.5	<2	2.07	<0.5	16	53	33	2.95	10	0.29	20	1.72	802	1	0.01	36	770	22	<5	20	<0.01	<10	<10	30	<5	56
37492 F	1.64	2.6	50	150	<0.5	2	2.19	<0.5	15	50	37	3.16	10	0.29	20	1.55	788	<1	0.01	34	720	52	<5	24	0.01	<10	<10	28	<5	64
37493 F	1.45	9.2	40	150	<0.5	24	2.55	0.5	17	63	13	1.80	10	0.30	10	1.47	769	1	0.01	55	720	132	<5	31	<0.01	<10	<10	24	<5	78
37494 F	1.40	2.4	15	170	<0.5	14	2.51	<0.5	16	24	28	2.74	10	0.29	20	1.29	615	1	0.01	20	480	36	<5	28	<0.01	<10	<10	24	<5	42
37495 F	1.88	0.2	35	150	<0.5	<2	2.09	<0.5	19	36	45	3.80	10	0.26	10	1.86	708	<1	0.02	27	540	14	<5	23	0.01	<10	<10	37	<5	50
37496 F	1.63	0.2	5	170	<0.5	<2	2.56	<0.5	15	48	37	2.82	10	0.29	20	1.43	665	<1	0.02	29	690	14	<5	26	0.01	<10	<10	28	<5	50
37497 F	1.56	0.2	5	180	<0.5	<2	2.79	0.5	15	42	41	2.89	10	0.28	20	1.46	833	1	0.01	30	690	6	<5	32	<0.01	<10	<10	24	<5	92
37498 F	1.46	0.6	50	190	<0.5	<2	4.04	1.0	17	27	28	3.19	10	0.28	<10	1.47	1351	1	0.01	23	590	40	<5	51	<0.01	<10	<10	19	<5	150
37499 F	1.69	0.4	5	160	<0.5	<2	2.69	<0.5	16	39	31	3.04	10	0.23	20	1.55	743	1	0.01	27	720	14	<5	27	<0.01	<10	<10	28	<5	94
37500 F	1.94	0.6	5	200	<0.5	<2	2.33	<0.5	16	44	39	3.47	10	0.29	20	1.66	706	<1	0.02	27	670	8	<5	18	0.01	<10	<10	34	<5	66
37501 F	2.18	0.2	20	160	<0.5	<2	2.38	0.5	19	36	50	3.88	10	0.26	10	1.89	830	<1	0.02	20	530	22	<5	13	<0.01	<10	<10	39	<5	148
37502 F	1.97	1.6	25	160	<0.5	<2	3.62	<0.5	15	35	38	3.37	10	0.27	10	1.79	975	1	0.02	24	680	52	<5	20	<0.01	<10	<10	30	<5	72
37503 F	2.14	0.6	25	180	<0.5	<2	2.96	<0.5	15	25	23	3.52	10	0.34	10	1.79	786	<1	0.02	15	650	29	<5	15	<0.01	<10	<10	30	<5	54
37504 F	2.48	2.2	30	250	<0.5	<2	3.27	4.5	16	32	101	3.27	10	0.41	10	2.16	1391	<1	0.03	15	560	386	<5	19	0.01	<10	<10	44	<5	798
37505 F	1.55	0.4	35	140	<0.5	<2	3.19	0.5	14	24	40	3.96	10	0.20	10	1.57	1065	<1	0.01	18	620	154	<5	20	<0.01	<10	<10	21	<5	166
37506 F	0.85	0.6	90	150	<0.5	<2	2.37	4.5	14	33	62	2.88	<10	0.20	10	1.46	1077	1	<0.01	35	650	100	<5	22	<0.01	<10	<10	14	<5	722
37507 F	0.57	0.2	25	110	<0.5	<2	2.30	1.0	14	16	70	3.54	<10	0.19	10	1.18	1024	1	<0.01	16	420	30	<5	29	<0.01	<10	<10	9	<5	226
37508 F	0.70	0.2	60	120	<0.5	<2	1.89	1.0	16	16	113	5.34	<10	0.26	10	1.07	919	<1	0.01	18	640	30	<5	45	<0.01	<10	<10	14	<5	274
37509 F	1.96	0.4	30	290	<0.5	<2	1.91	0.5	16	53	131	3.74	<10	0.36	20	1.92	1124	1	0.01	28	710	26	<5	23	<0.01	<10	<10	26	<5	162
37510 F	1.42	0.2	15	260	<0.5	<2	2.12	0.5	13	44	67	2.98	<10	0.22	20	1.18	905	1	0.01	27	650	8	<5	39	<0.01	<10	<10	21	<5	152

Certified by *B. Cough*



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COMMENTS :
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Sample description	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
37511 F	1.26	1.6	35	150	<0.5	4	1.85	<0.5	15	45	78	3.33	<10	0.23	20	1.32	733	1	0.01	30	670	36	<5	43	<0.01	<10	<10	19	<5	66
37512 F	1.48	4.2	50	360	<0.5	4	1.98	2.5	15	43	142	3.18	<10	0.58	20	1.53	947	1	0.01	29	710	306	<5	41	0.03	<10	<10	25	<5	412
37513 F	1.53	1.4	40	310	<0.5	2	1.50	<0.5	13	50	132	3.14	<10	0.49	20	1.37	579	1	0.02	28	580	40	<5	34	0.02	<10	<10	26	<5	58
37514 F	1.75	10.2	25	370	<0.5	12	1.68	<0.5	14	57	54	2.68	<10	0.52	20	1.65	830	1	0.02	29	680	218	<5	28	0.02	<10	<10	29	<5	70
37515 F	1.38	1.0	10	410	<0.5	2	2.11	<0.5	9	38	35	2.02	10	0.51	10	1.61	1251	1	0.01	20	630	40	<5	36	0.01	<10	<10	20	<5	80
37516 F	1.17	3.6	10	310	<0.5	4	1.41	4.0	11	35	81	2.37	<10	0.48	20	1.31	789	1	0.01	29	690	214	<5	24	0.01	<10	<10	17	<5	602
37517 F	1.36	7.6	<5	620	<0.5	8	1.12	2.5	13	44	70	1.87	<10	0.72	20	0.81	611	1	0.01	29	640	112	<5	18	0.02	<10	<10	25	<5	370
37518 F	1.51	2.4	5	380	<0.5	2	1.20	<0.5	16	50	129	3.30	<10	0.54	10	1.26	668	<1	0.01	30	680	36	<5	24	0.06	<10	<10	26	<5	76
37519 F	1.50	4.2	10	550	<0.5	2	1.17	1.0	18	50	89	2.24	<10	0.71	10	0.93	506	1	0.03	34	620	60	<5	25	0.08	<10	<10	30	<5	216
37520 F	0.85	2.6	5	340	<0.5	2	1.67	<0.5	12	27	53	1.60	<10	0.40	10	0.54	608	1	0.02	27	540	40	<5	29	0.03	<10	<10	16	<5	40
37521 F	1.09	5.2	<5	340	<0.5	4	1.93	2.5	15	33	88	2.32	<10	0.45	10	0.90	865	1	0.01	29	660	114	<5	30	0.02	<10	<10	18	<5	342
37522 F	1.11	7.6	375	330	<0.5	14	1.68	1.0	20	35	85	2.32	<10	0.46	20	0.85	728	1	0.01	35	630	136	<5	27	0.01	<10	<10	18	<5	192
37523 F	0.92	19.4	265	250	<0.5	90	1.30	0.5	18	33	76	1.65	<10	0.40	20	0.83	468	1	0.01	32	700	106	<5	15	0.01	<10	<10	15	<5	48
37524 F	1.09	24.0	890	260	<0.5	116	1.64	<0.5	14	37	99	1.71	<10	0.45	20	0.92	546	1	0.01	35	730	208	<5	28	0.07	<10	<10	17	<5	26
37525 F	1.18	6.2	60	120	<0.5	6	0.19	<0.5	4	38	120	3.76	<10	0.15	10	1.07	411	1	0.01	10	480	362	<5	5	<0.01	<10	<10	16	<5	198
37526 F	0.83	0.8	10	160	<0.5	2	0.03	0.5	3	12	87	2.50	<10	0.17	10	0.52	301	1	0.01	8	150	32	<5	2	<0.01	<10	<10	7	<5	136
37527 F	1.79	0.2	25	90	<0.5	2	0.15	1.0	13	39	82	3.94	<10	0.13	10	1.53	781	1	0.01	26	660	40	<5	7	<0.01	<10	<10	28	<5	186
37528 F	1.91	0.4	5	110	<0.5	2	0.17	0.5	12	47	105	4.07	<10	0.11	10	1.66	549	<1	0.01	18	600	14	<5	11	0.01	<10	<10	37	<5	108
37529 F	2.08	0.8	15	110	<0.5	2	0.38	1.0	14	53	154	4.34	<10	0.11	20	2.08	819	<1	0.01	22	700	24	<5	13	0.01	<10	<10	42	<5	242
37530 F	1.84	1.4	20	180	<0.5	2	0.24	2.5	15	40	285	3.80	<10	0.18	20	1.67	817	1	0.01	25	610	49	<5	12	0.01	<10	<10	30	<5	382
37531 F	1.59	2.4	35	140	<0.5	2	0.61	1.0	12	47	95	3.42	<10	0.15	20	1.72	924	2	0.01	27	650	140	<5	22	0.01	<10	<10	24	<5	192
37532 F	1.29	3.2	5	110	<0.5	2	0.37	2.0	11	29	114	2.09	<10	0.15	10	1.39	853	1	0.01	28	650	76	<5	7	<0.01	<10	<10	18	<5	264
37533 F	1.26	5.2	5	80	<0.5	2	0.66	2.0	11	27	347	2.19	<10	0.09	10	1.56	889	<1	0.01	21	550	146	<5	7	<0.01	<10	<10	18	<5	332
37534 F	1.54	4.6	10	90	<0.5	2	0.56	4.0	13	29	116	3.25	<10	0.12	20	1.76	818	<1	0.01	21	460	136	<5	5	<0.01	<10	<10	19	<5	518
37535 F	0.81	1.0	5	140	<0.5	2	1.43	2.0	10	27	56	2.31	<10	0.20	20	0.63	792	1	0.01	25	410	26	<5	14	0.01	<10	<10	8	<5	172
37536 F	1.99	1.8	20	180	<0.5	2	2.48	8.5	18	60	130	4.12	10	0.25	20	1.87	1214	1	0.01	29	750	50	<5	17	0.01	<10	<10	25	<5	1316
37537 F	2.42	10.2	20	150	<0.5	8	2.44	>99.9	25	72	831	4.69	10	0.20	20	2.41	1417	1	0.01	23	640	254	<5	16	<0.01	<10	<10	34	10	>9999
37538 F	2.04	2.2	10	310	<0.5	2	3.52	9.0	16	62	104	3.61	10	0.37	10	1.66	1246	<1	0.01	26	670	52	<5	25	0.01	<10	<10	30	<5	1026
37539 F	1.95	18.6	5	320	<0.5	36	1.63	1.0	17	54	265	3.75	<10	0.35	20	1.38	919	<1	0.02	27	650	76	<5	12	0.02	<10	<10	30	<5	130
37540 F	2.70	1.4	30	290	<0.5	2	2.39	0.5	19	56	126	3.85	10	0.49	10	1.85	924	<1	0.03	21	510	14	<5	16	0.03	<10	<10	57	<5	112
37541 F	3.46	1.2	20	340	<0.5	2	2.26	<0.5	22	64	197	4.38	10	0.68	20	2.25	1064	<1	0.03	26	530	26	<5	15	0.04	<10	<10	69	<5	126
37542 F	2.41	2.2	25	220	<0.5	2	2.58	<0.5	22	43	139	3.95	10	0.40	10	1.77	883	<1	0.01	18	510	34	<5	14	0.03	<10	<10	43	<5	54
37543 F	2.38	0.8	15	190	<0.5	2	2.36	<0.5	16	42	111	3.92	10	0.36	10	1.85	994	<1	0.01	20	500	29	<5	13	0.01	<10	<10	40	<5	82
37544 F	2.08	1.0	25	190	<0.5	2	2.81	<0.5	19	41	138	3.65	10	0.32	10	1.68	1047	<1	0.01	21	520	18	<5	21	<0.01	<10	<10	36	<5	58
37545 F	1.17	2.0	5	170	<0.5	2	2.94	0.5	14	26	142	2.19	10	0.19	10	1.23	1220	<1	0.01	25	650	24	<5	28	<0.01	<10	<10	17	<5	96
37546 F	1.05	1.4	5	320	<0.5	2	1.86	<0.5	13	29	119	3.10	<10	0.25	30	0.93	811	1	0.01	35	730	14	<5	25	<0.01	<10	<10	13	<5	68
37547 F	1.12	10.2	5	260	<0.5	12	1.86	<0.5	14	33	133	3.15	<10	0.20	30	1.05	784	1	0.01	35	730	62	<5	25	<0.01	<10	<10	14	<5	74
37548 F	1.29	1.6	90	170	<0.5	2	1.98	<0.5	13	39	176	3.61	<10	0.15	30	1.23	852	<1	0.01	34	750	16	<5	19	0.01	<10	<10	15	<5	54
37549 F	1.06	1.4	20	140	<0.5	2	1.77	<0.5	13	38	170	3.76	<10	0.15	20	1.14	953	1	0.01	36	690	14	<5	12	<0.01	<10	<10	14	<5	48
37550 F	0.31	1.6	<5	30	<0.5	2	1.73	<0.5	6	12	99	2.05	<10	0.03	<10	0.77	662	<1	0.01	12	220	24	<5	10	<0.01	<10	<10	5	<5	44

Certified by ..B..L..C..