

Hudson Bay Exploration & Development Co. Ltd.
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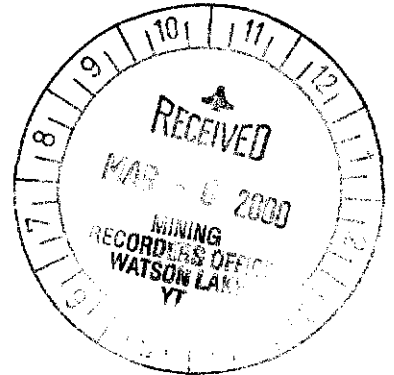
**Assessment Report
Geochemical Survey
Hat Property**

Located within the **Hat Claims Group**,
NTS 105H/16
Latitude: 61.81°
Longitude: 128.46°

Mining District: Watson Lake

Written by: M. Buchanan

Work Performed August 1999



094114

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 6577.50.

M. B. K.
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

Summary

The Hat property is located northwest of the Little Hyland River approximately 225 km north of the town of Watson Lake along the Nahanni Range road. Physiography on the property consists moderate to rugged terrain with elevations ranging from 1200 m to 2000 m. Vegetation on the property is comprised of conifer trees, willows and alders. During the summer of 1999 geologic mapping and a geochemical survey was conducted on the Hat claims. As a result of the survey a total 78 of geochemical samples were collected along grid lines and a property scale geological map was completed. Preliminary results of the geochemical survey have outlined at least one multi-element Au-As anomaly in the soils.

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Introduction

During the summer of 1998, while following up exploration targets in the regional geochemical silt samples (GSC Open File 1649), a geochemical silt survey was conducted in the area now covered by the Hat claims. This preliminary survey confirmed the area as having anomalous gold & arsenic values. During the month of August 1999, 4-6 personnel from Hudson Bay Exploration & Development investigated the Hat claims through geologic mapping and soil/rock sampling. This report details the results of the geological mapping and geochemical sampling on the Hat claims.

Location & Access

The Hat claims are entirely located northwest of the Little Hyland River, approximately 125 km north of the Robert Campbell turn off along the Cantung road. Watson Lake is the closest major centre with air service and other facilities and is 200 km south of the property. Elevations on the property range from 1200 m to 2000 m. Access to all of the Hat claims is best accomplished by helicopter.

Physiography

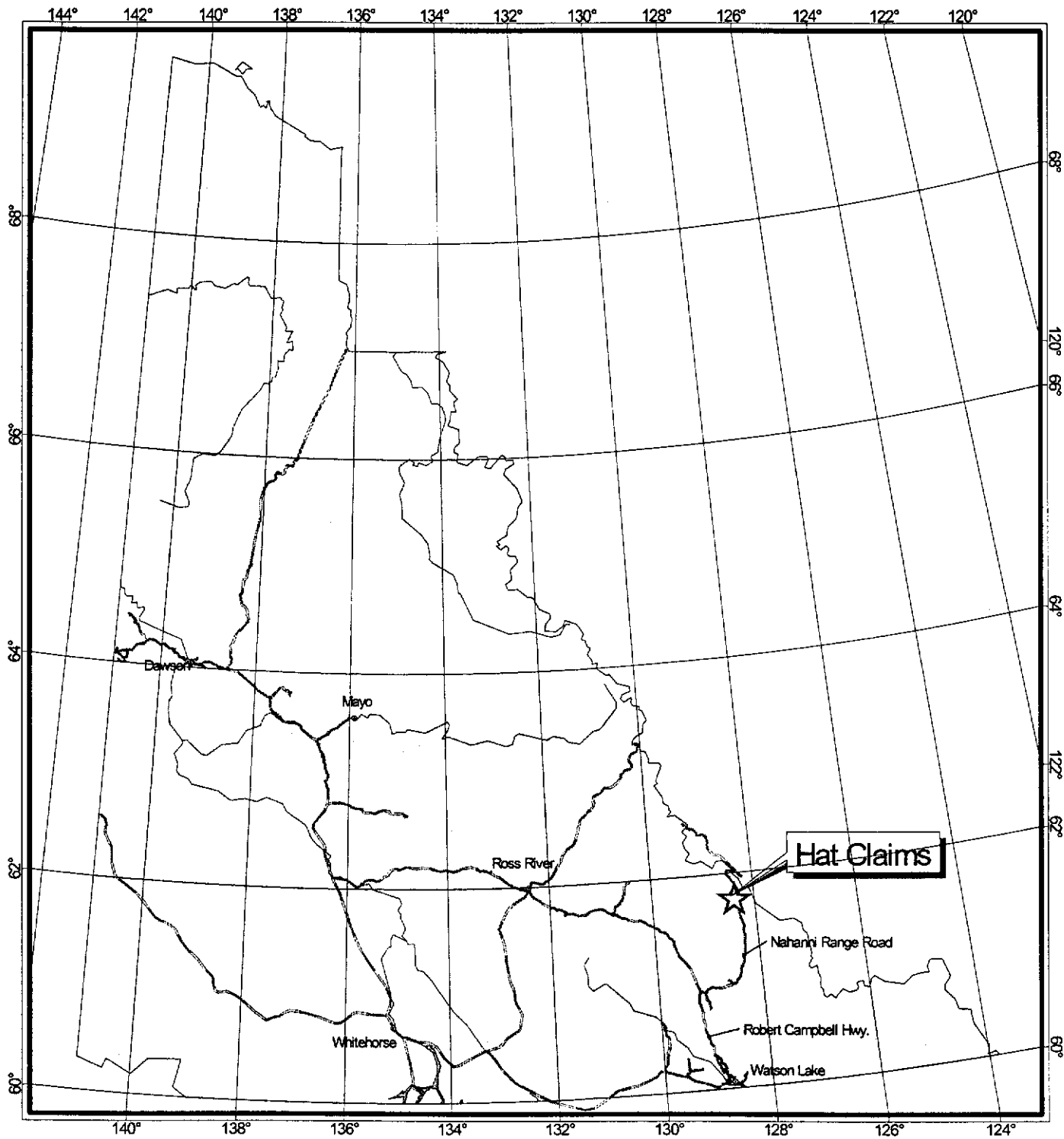
The Hat claims are situated in an area of moderate to rugged topographic relief with elevations ranging from 1200 m to 2000 m. Vegetation on the property is variable consisting of conifer trees, willows and alders in the valleys and minor scrub brush, blueberries, abundant mosses, lichens and grasses on the hill tops. Outcrop is best observed on the hilltops, steeper slopes and in creek cuts of the property.

History of Exploration

The area around the Hat claims has been the focus of a number of gold exploration programs. Starting in 1996-97 Westmin, Noranda and Phelps Dodge explored the region and staked the Fer, Sprogge and Hy properties respectively. In 1997-98 Hudson Bay Exploration and Development Company Limited staked the Hat, Hab & Hit properties. All companies have completed work that includes geological mapping and geochemical sampling. At the time of this report Hudson Bay Exploration and Development Co. Ltd. had also completed first phase drilling on the Hit property

Property Status & Ownership

The Hat property is composed of 20 two-post claims staked in a north/south direction (Figure 2). The property is 100% owned by Hudson Bay Exploration & Development Co. Ltd. Table I outlines the grant numbers and expiry dates of all the claims referred to in this report.



50 0 50 100 150 200 Kilometers

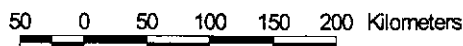
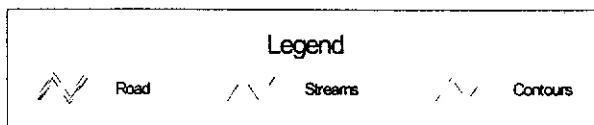
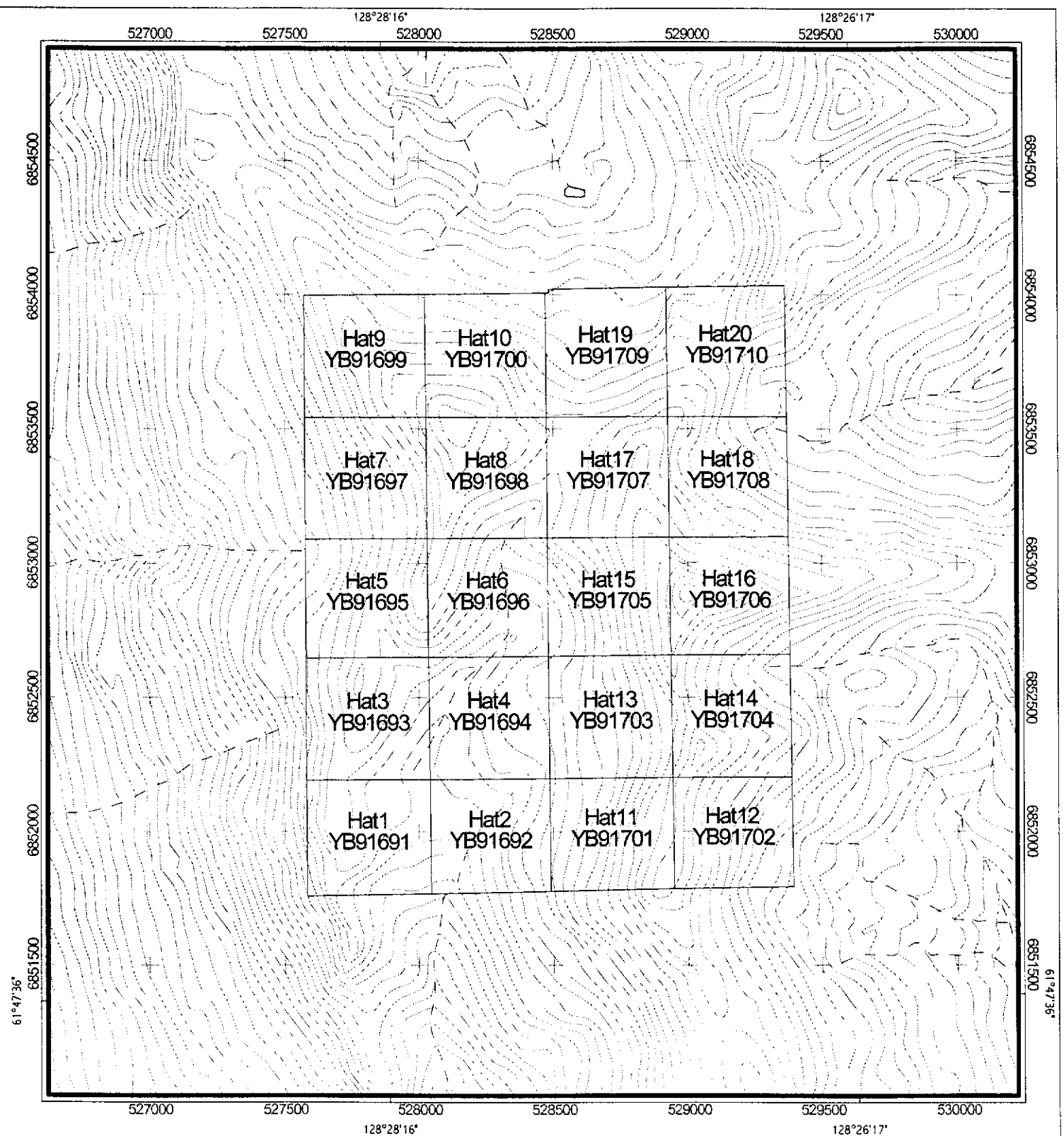
Hudson Bay Exploration & Dev. Co. Ltd.
Vancouver Office

Location Map Hat 1-20 Claims

FIGURE - 1
AUTHOR: MDB

SCALE
1:6000000

DATE: January 17, 1999
FILE: hatlocationmap.apr



Hudson Bay Exploration & Dev. Co. Ltd.
Vancouver Office

Hat 1-20 Claims
UTM Zone 9
NAD 83

FIGURE - 2
AUTHOR: MDB

SCALE
1:20000

DATE: January 17, 1999
FILE: hatclaimmap.apr

Table I Claim Status

Claim Name	Grant Number	Date Staked	Mapsheet	Hectares	Expiry Date
HAT 1	YB91691	06-Sep-98	105H/16	21	15-Feb-02*
HAT 2	YB91692	06-Sep-98	105H/16	21	15-Feb-02*
HAT 3	YB91693	06-Sep-98	105H/16	21	15-Feb-02*
HAT 4	YB91694	06-Sep-98	105H/16	21	15-Feb-02*
HAT 5	YB91695	06-Sep-98	105H/16	21	15-Feb-02*
HAT 6	YB91696	06-Sep-98	105H/16	21	15-Feb-02*
HAT 7	YB91697	06-Sep-98	105H/16	21	15-Feb-02*
HAT 8	YB91698	06-Sep-98	105H/16	21	15-Feb-02*
HAT 9	YB91699	06-Sep-98	105H/16	21	15-Feb-02*
HAT 10	YB91700	06-Sep-98	105H/16	21	15-Feb-02*
HAT 11	YB91701	06-Sep-98	105H/16	21	15-Feb-02*
HAT 12	YB91702	06-Sep-98	105H/16	21	15-Feb-02*
HAT 13	YB91703	06-Sep-98	105H/16	21	15-Feb-02*
HAT 14	YB91704	06-Sep-98	105H/16	21	15-Feb-02*
HAT 15	YB91705	06-Sep-98	105H/16	21	15-Feb-02*
HAT 16	YB91706	06-Sep-98	105H/16	21	15-Feb-02*
HAT 17	YB91707	06-Sep-98	105H/16	21	15-Feb-02*
HAT 18	YB91708	06-Sep-98	105H/16	21	15-Feb-02*
HAT 19	YB91709	06-Sep-98	105H/16	21	15-Feb-02*
HAT 20	YB91710	06-Sep-98	105H/16	21	15-Feb-02*

* Pending Acceptance of this report

Work Performed

Work performed on the Hat claims was completed from August 25th to August 27th by S. de Wit, A. Fonseca, G. Mulligan, D. Simms, J. Sparling & A. Tessier of Hudson Bay Exploration & Development Co. Ltd. (See Appendix 3). The work program included geological mapping and collection of geochemical samples. A total of 74 soil samples and 4 rock samples were collected at 50 to 100m station spacing and sent to Acme Labs in Vancouver, BC for 48 element ICP+MS.

Regional & Preliminary Property Geology

Regionally the Hat claims are underlain by Lower Cambrian aged limestone, shale, quartzite, quartz grits, and pebble chert conglomerates of the Hyland Group. The sediment package generally strikes to the northwest with a moderate dip between 40 - 60 degrees to the northeast (GSC Map 6-1966). The Hyland Group of sediments as defined by Gordey and Anderson, 1993 can be further divided into the Yusezyu and Narchilla formations. The table below (after A. Tessier, 1999) summarises the formations seen in the region.

Narchilla Formation of the Hyland Group:

- 830 m thick (Gordey and Anderson, 1993),
- Precambrian to lower Cambrian,
- Blue, Maroon and Green shale with typically non-calcareous sandstone.

Yusezyu Formation of the Hyland Group:

- > 3000 m thick (Gordey and Anderson, 1993),
- Precambrian,
- Thick sequence dominated by coarse-grained quartz-sandstone with minor shale (underlying only a minor part of the area). The quartz-sandstone of the Yusezyu Formation is characterized by the bluish color of the quartz. The top of the Yusezyu Formation is characterized by a thin and discontinuous unit of limestone.

The geology at a property scale is very much the same as what has been recognised regionally. Detailed mapping by A. Fonseca and A. Tessier indicate that the Hat claims are underlain by north/northwest striking sediments of the Narchilla formation which show varying degrees of dip to the north/northeast. The structures recognised on the property consist of NW and NE trending thrusts and normal faults. Complete results of the mapping can be on a modified geological map in the back pocket of this report.

Geochemical Survey

A total of 78 samples were collected from on the Hat property during the 1999 summer field season. The soil samples were collected from a homogenized 'A' horizon typically ranging in depth from 10 to 20 cm using geo-tools. Rock samples were collected from outcrop/subcrops. All samples were placed into labeled kraft wet strength paper bags or plastic bags and sent to Acme Labs in Vancouver, British Columbia for 48 element ICP+MS. Complete analytical results can be found in the Appendix 4 in the back of this report.

Results

The sampling on the Hat claims suggest that erratic elevated gold and arsenic levels exist over the much of the area sampled by the geochemical grid. One distinctive anomalous area measuring 200m x 300m (open ended to the south and east) is located in the southeast portion of the geochemical grid. The anomaly consists of values ranging from 19 to 196ppb gold and 100 to >700ppm Arsenic in soils.

Conclusion & Recommendations

Results to date from the Hat property indicate there is one area on the property having anomalous gold and arsenic mineralisation. The mineralisation occurs very near a mapped fault and appears to be loosely correlatable with the arenites and wackes; however, further mapping and field investigations are required for confirmation. It is recommended that follow-up on the Hat property should include the following:

1. Complete more detailed geological and structural mapping around areas of known mineralisation.
2. Additional geochemistry to enlarge or close off the existing anomalies.
3. Assess the potential benefits of a geophysical survey including IP and/or Mag/VLF over areas of known mineralisation.

References

- Geological Survey of Canada, 1966. Geology of the Frances Lake Sheet (NTS 105H), Yukon Territory & District of Mackenzie, Map 6-1966, 1" to 4 miles.
- Gordey, S.P. & Anderson, R.G. 1993. Evolution of the Northern Cordilleran Miogeocline, Nahanni Map Area (105I) Yukon and Northwest Territories.
- Hornbrook, E.H.W. and Friske, P.W.B., 1989. Regional Stream and Water Geochemical Data, Southeast Yukon, Map 105H: Open File 1649, Geological Survey of Canada.
- Tessier, Andre C., 1999. Yukon Gold Project: Reconnaissance Geological mapping of the Hyland Block, 105H9/15/16 (In house report)

Appendix 1

Hat 1-20 Expenditures

Geochemical Survey

Sampling

Soil samples	@ \$25/sample	x	74	= \$1250
Rock samples	@ \$25/sample	x	4	= <u>\$50</u>
				\$1950

Manpower

2 – Geologists @ \$200/day	x	2day	= \$800
1 – Junior Geologist @ \$175/day	x	2day	= <u>\$350</u>
		Total	\$1150

Accommodations & Food (includes pilot)

4 Persons @ \$50/day	x 1day	= \$200
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Air Support

1 Helicopter @ \$675/hr	x 2.3hrs	= <u>\$1552.5</u>
	Total	<u>\$4852.5</u>

Approx. \$62/sample

Geological Mapping

Manpower

1 Geologist @ \$250/day	x	1 day	= \$250
1 Assistant @ \$175/day	x	1 day	= \$150

Accommodations & Food (includes pilot)

3 Persons @ \$50/day	x	1 day	= \$150
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Air Support

1 Helicopter @ \$675/hr	x	1.0hrs	= <u>\$675</u>
		Total	<u>\$1225</u>

Compilation

1 Geologist @ \$250/day	x	2 days	= \$500
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Grand Total **\$6577.50**

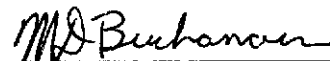
Appendix 2

STATEMENT OF QUALIFICATIONS

I, Michael Buchanan, of Vancouver, BC hereby certify that:

- 1) I am a graduate of the University of British Columbia, with a B.Sc. (Hon) in Geology (1995).
- 2) I am currently employed as a Geologist for Hudson Bay Exploration & Development Company Limited.
- 3) I am currently a member in good standing of the Association of Professional Engineers & Geoscientists of British Columbia (Geologist in Training).
- 4) The information contained within this report is based on published and unpublished reports of the area and work carried out in part and/or in full by myself and others under my supervision.
- 5) I have no interest in the Bay claims or any others within a 100km radius

Signed this day 28TH of FEBRUARY, 2000.



Michael Buchanan
Geologist
Hudson Bay Exploration and
Development Company Limited

Appendix 3

Personnel

<u>Name:</u>	<u>Position</u>
Michael Buchanan Box 203 141-757 West Hastings St. Vancouver, BC V6C 1A1	Project Geologist
Steve de Wit PO Box 3107 Vancouver, BC V6B 3X6	Geologist
Jason Dunning 12041 234 th Street Maple Ridge, BC V2X 9K7	Geologist
Anna Fonseca P.O. Box 2703 Whitehorse, Yukon Y1A 2C6	Geologist
Scott Heffernan 1651 Harwood Street Vancouver, BC V6G 1Y2	Jr. Geologist
Geoff Mulligan 111 N. Ogilvie St. Prince George, BC V2M 3H4	Jr. Geologist
Darren Simms PO Box 1500 Flin Flon, MB. R8A1N9	Geologist
Gordon Smarch PO Box 499 Watson Lake, Yukon Y0A 1C0	Technician
Jim Sparling Box 61 Flin Flon, MB. R8A1M6	Geologist
Andre Tessier 138 Chatham Street Kingston, Ontario K7K 4H4	Geological Consultant
Daniel Tutt 689 St. Ives Cres North Vancouver, BC V7N 2X4	Jr. Geologist

Appendix 4



GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2316 File # 9903736 Page 1 (a)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: M. Buchanan



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Hg %	Ba ppm	Ti %	B ppm	Al %	Flu %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
ALFS-003771	1.93	9.95	17.21	48.0	56	14.1	9.5	1187	2.78	14.0	4	2.2	4.9	5.1	.05	.45	.48	19	.02	.041	23.2	20.1	.26	50.4	.009	2	.96	.011	.07	2.8	.06	19	.2	.03	4.4
ALFS-003785	2.20	5.36	8.94	15.7	76	7.3	2.7	157	1.09	4.1	.3	1.1	2.0	9.9	.05	.18	.34	17	.06	.025	14.4	13.6	.11	42.4	.007	1	.68	.023	.08	1.4	.06	15	.2	<.02	3.8
ALFS-003792	1.15	28.42	26.42	86.2	57	35.1	16.5	424	3.64	4.5	1.3	1.1	13.5	25.8	.05	.73	.52	11	.32	.052	39.6	26.0	.70	40.4	.002	2	1.68	.005	.16	1.1	.04	16	.1	.04	4.8
ALFS-003867	.87	81.35	29.12	106.9	44	49.6	24.9	832	4.60	7.6	2.3	1.0	12.2	21.9	.04	.37	.61	21	.14	.067	30.6	36.9	1.09	44.6	.002	1	2.56	.009	.11	.3	.03	10	.3	.05	7.1
ALFS-003876	2.16	8.69	10.42	36.5	13	15.8	6.3	240	2.32	20.1	.5	2.9	5.8	5.5	.07	.32	.73	19	.03	.017	20.7	20.8	.39	52.9	.008	1	1.19	.007	.08	3.4	.06	8	.2	.02	4.5
ALFS-003888	1.66	23.77	11.37	54.2	63	21.4	8.4	871	2.01	20.8	5.8	2.9	2.2	182.6	.21	.59	.42	12	2.63	.070	7.9	18.5	.50	80.9	.008	5	1.21	.013	.15	.7	.07	46	2.1	.04	3.5
ALFS-003782	.73	19.96	6.44	28.3	96	13.3	5.3	204	1.34	4.2	10.4	1.8	.7	356.2	.26	.37	.22	9	3.17	.084	9.0	12.9	.22	107.7	.008	3	1.09	.027	.07	1.1	.04	54	1.1	.05	2.5
ALFS-003863	.70	55.79	25.30	108.8	94	50.8	20.8	403	4.46	8.2	2.1	.3	15.5	48.1	.04	.87	.50	15	.95	.065	19.6	28.9	.93	59.2	.002	1	2.38	.009	.17	<.2	.04	16	.4	.04	6.1
ALFS-003897	1.63	7.09	2.72	8.1	167	1.7	.9	31	.39	.5	.3	<.2	.3	20.4	.26	.07	.10	6	.12	.019	6.1	6.2	.03	39.9	.010	1	.32	.039	.05	2.8	.02	20	.1	<.02	1.6
ALFS-003866 PULP	1.13	33.64	8.03	54.9	45	14.9	15.1	526	4.41	2.0	.7	1.3	2.7	51.1	.09	.14	.20	176	.52	.049	13.3	49.1	.58	90.4	.486	2	4.25	.122	.07	.2	.14	38	.8	.04	10.8
ALFS-003895	1.18	28.39	23.99	88.0	77	33.2	16.0	500	3.29	28.7	1.4	4.4	7.6	38.1	.34	.69	.59	16	.39	.052	21.0	25.0	.63	63.4	.005	1	1.65	.007	.13	.5	.06	20	.8	.06	4.8
ALFS-003868	2.20	25.97	19.16	69.3	61	30.1	12.7	435	3.00	31.1	1.2	7.5	6.5	69.7	.11	.59	.47	14	.76	.052	17.1	32.1	.63	54.1	.004	2	1.47	.008	.13	3.1	.05	20	.7	.04	4.2
ALFS-003877	1.64	10.06	11.46	43.0	25	18.4	7.9	275	2.46	18.6	.6	18.1	5.8	5.9	.04	.35	.89	17	.02	.021	20.1	18.6	.41	62.3	.011	1	1.39	.006	.10	1.7	.09	9	.2	.02	4.7
ALFS-003892	1.06	21.14	17.59	45.3	137	21.0	9.0	270	2.25	10.9	1.2	1.5	4.5	36.3	.12	.42	.33	13	.42	.044	14.0	17.5	.40	68.1	.004	1	1.19	.018	.10	1.1	.04	22	.5	.05	3.8
ALFS-003864	.93	57.74	29.67	102.7	58	44.5	21.8	550	4.53	20.6	3.0	.8	11.2	31.1	.05	.82	.81	19	.10	.060	20.7	35.2	.96	42.1	.002	1	2.28	.017	.10	.2	.04	9	.3	.14	6.7
RE ALFS-003864	.96	59.93	29.92	105.4	62	45.9	22.5	561	4.64	20.8	3.1	1.3	11.4	31.8	.08	.82	.64	19	.10	.063	20.8	35.2	.98	42.6	.002	1	2.32	.018	.10	.3	.03	14	.3	.10	6.8
ALFS-003774	2.63	9.73	6.98	28.4	73	6.9	2.2	105	1.19	2.8	.4	.3	1.0	79.6	.35	.15	.19	9	.64	.042	8.7	18.4	.16	47.0	.010	1	.65	.028	.07	4.1	.03	22	.2	.04	2.6
ALFS-003879	2.49	29.57	18.12	56.7	67	27.4	11.2	952	2.63	34.1	2.1	6.3	5.6	119.4	.15	.61	.38	12	1.54	.049	12.0	24.1	.51	67.2	.004	3	1.29	.009	.12	1.5	.04	33	1.3	.05	3.5
ALFS-003840	3.04	11.22	7.87	21.4	18	14.2	5.8	317	1.76	4.3	.4	.3	6.0	4.1	.02	.41	.14	8	.04	.018	19.4	22.6	.21	32.8	.006	1	.70	.005	.09	4.4	.03	11	.3	.02	1.7
ALFS-003854	2.74	16.29	11.40	54.9	127	24.4	7.9	341	2.68	29.8	.5	3.1	2.3	5.5	.02	.47	.28	12	.02	.049	11.7	30.2	.46	24.3	.004	1	1.21	.028	.07	1.6	.03	16	.2	.04	4.1
ALFS-003767	1.37	3.69	3.01	13.6	35	4.7	1.9	50	.68	1.9	.3	<.2	1.3	9.4	.02	.33	.10	10	.05	.015	9.5	11.9	.09	40.5	.008	<1	.42	.039	.06	2.2	.03	17	.2	.02	1.9
ALFS-003857	2.59	36.98	17.63	82.2	22	36.8	13.3	658	3.63	46.3	1.9	2.2	7.4	8.3	.06	.79	.34	16	.06	.049	28.8	23.9	.52	32.8	.003	1	1.32	.013	.07	1.4	.03	8	.3	.07	4.2
ALFS-003885	3.45	13.76	19.32	38.5	39	16.2	7.4	314	1.90	19.2	.5	.8	3.8	43.8	.17	.35	.38	13	.48	.035	15.7	26.3	.38	53.8	.013	1	.94	.016	.11	5.7	.06	16	.2	.03	3.2
ALFS-003852	2.32	33.84	20.50	102.2	30	44.7	20.3	1014	4.26	36.8	1.1	1.7	7.5	9.0	.08	.65	.44	16	.11	.053	27.2	37.1	.98	32.5	.001	1	2.12	.015	.10	1.3	.03	7	.3	.08	5.9
ALFS-003839	1.32	26.03	21.35	72.6	39	26.9	12.3	465	3.06	21.8	1.1	.6	14.0	9.7	.06	.16	.37	10	.07	.039	42.6	19.7	.41	50.3	.003	<1	1.23	.005	.12	1.6	.04	<5	.1	.03	3.0
ALFS-003858	.65	45.05	9.58	87.6	32	42.7	8.5	321	3.83	13.5	2.1	1.2	10.4	12.7	.03	.52	.30	12	.04	.043	37.8	30.2	.88	40.8	.001	1	2.07	.013	.12	.3	.03	11	.3	.04	5.9
ALFS-003764	3.25	22.23	13.96	123.3	57	44.7	22.0	593	3.68	19.9	1.3	.2	8.7	27.4	.37	.79	.34	26	.36	.085	33.7	34.4	.80	51.8	.012	1	1.65	.013	.13	2.9	.06	5	.6	.03	4.7
ALFS-003770	2.56	7.88	12.18	33.3	38	12.6	5.6	327	2.04	11.4	.3	<.2	4.1	5.9	.05	.41	.30	21	.03	.033	27.1	20.9	.17	34.7	.007	1	.73	.010	.07	1.7	.06	13	.2	.03	4.4
ALFS-003842	2.68	9.89	16.70	21.5	20	12.1	6.1	392	1.33	15.6	1.5	3.8	11.5	7.3	.03	.31	.18	3	.06	.021	29.4	18.9	.11	23.7	.002	<1	.55	.005	.07	3.9	.09	6	.2	.03	1.2
ALFS-003800	2.70	9.78	8.84	17.6	31	8.7	2.3	102	1.08	4.0	.8	<.2	2.7	8.0	.04	.15	.12	8	.03	.038	17.4	15.3	.12	38.4	.004	1	.53	.018	.08	1.7	.02	42	.2	.02	2.5
ALFS-003797	1.92	25.94	11.14	55.2	25	15.5	8.0	271	2.32	3.4	.8	1.2	4.2	6.2	.09	.62	.37	27	.03	.038	29.3	23.3	.22	50.4	.039	1	.73	.005	.13	1.8	.04	25	.3	.03	4.8
ALFS-003787	2.21	20.72	17.31	52.7	35	23.0	10.0	286	2.99	4.7	.8	<.2	3.1	5.1	.06	.65	.30	13	.02	.047	19.8	15.3	.17	43.7	.004	1	.93	.014	.09	1.3	.06	21	.3	.05	2.9
ALFS-003886	2.42	16.08	11.26	37.0	36	13.9	6.1	194	1.74	12.1	1.1	.9	3.6	45.7	.30	.35	.47	11	.52	.042	9.0	23.0	.33	43.9	.008	2	.99	.015	.14	3.7	.07	45	.3	.02	3.0
ALFS-003898	2.30	3.74	2.57	7.6	104	3.6	1.0	47	.46	.9	.1	<.2	.1	7.1	.10	.09	.08	9	.03	.018	5.9	11.7	.03	24.0	.009	<1	.23	.040	.05	1.6	.03	15	.2	<.02	1.6
STANDARD DS2	13.89	126.88	30.12	161.8	253	35.7	12.8	798	3.08	59.3	21.1	200.7	3.3	29.0	11.10	10.06	10.85	80	.53	.086	16.8	164.3	.59	139.4	.112	3	1.75	.031	.16	7.3	1.85	254	2.6	1.87	6.0

GROUP 1F30 - 30.00 GM SAMPLE, 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML, ANALYSIS BY ICP/ES & MS.

UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 1 1999 DATE REPORT MAILED: Oct 15/99 SIGNED BY: C. L. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2316 File # 9903736 Page 1 (b)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: M. Buchanan

AA
LL

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
ALFS-003771	.51	.1	.67	6.9	.7	.7	<.01	1.3	1.63	41.3	.02	2	26.6
ALFS-003785	.79	<.1	.59	9.8	.4	.7	<.01	.2	1.12	24.7	<.02	<1	8.3
ALFS-003792	.54	.1	.06	6.9	1.4	.4	<.01	11.5	8.22	68.3	.02	<1	51.3
ALFS-003867	.55	.1	.02	4.7	1.4	.4	<.01	10.2	6.37	49.0	.02	<1	108.4
ALFS-003876	.72	.1	.79	7.1	.9	.7	<.01	3.0	2.10	36.0	<.02	<1	34.2
ALFS-003888	.93	<.1	1.53	13.0	1.1	1.1	.20	4.6	3.71	12.4	<.02	2	30.5
ALFS-003782	.43	<.1	1.16	6.4	.6	1.2	.29	2.8	4.96	12.8	<.02	<1	19.4
ALFS-003863	1.30	.1	.11	5.7	2.1	.3	.01	10.5	8.56	34.6	.02	<1	90.9
ALFS-003897	.22	<.1	.31	2.8	.1	.3	.01	.3	.78	10.9	<.02	<1	1.6
ALFS-003866 PULP	1.06	.2	.51	5.2	8.8	1.4	<.01	46.6	15.76	29.4	.06	3	11.4
ALFS-003895	.73	.1	.71	10.2	1.7	.5	.02	4.5	6.22	35.1	.02	1	53.5
ALFS-003868	.49	.1	.53	7.7	1.6	.3	.04	5.3	4.98	29.2	.02	1	43.9
ALFS-003877	1.58	.1	.89	15.9	1.1	.9	<.01	4.4	2.27	34.2	.02	<1	41.2
ALFS-003892	.54	<.1	.46	8.9	1.0	.4	.01	2.5	4.07	23.6	<.02	1	29.5
ALFS-003864	.70	.1	.08	4.1	1.4	.4	.02	12.3	5.24	34.8	<.02	<1	103.0
RE ALFS-003864	.70	.1	.05	4.0	1.5	.4	.02	12.3	5.25	33.2	<.02	2	104.7
ALFS-003774	.40	<.1	.74	7.7	.4	.3	.03	.8	.94	14.8	<.02	<1	16.6
ALFS-003879	.46	.1	.62	6.6	1.5	.4	.14	6.0	4.80	19.7	.02	4	34.9
ALFS-003840	.31	<.1	.23	5.3	.6	.2	<.01	1.2	4.16	35.1	<.02	2	11.8
ALFS-003854	.39	<.1	.15	4.0	.5	.3	<.01	3.1	1.04	20.1	<.02	<1	38.8
ALFS-003767	.36	<.1	.19	3.2	.3	.2	<.01	.3	.84	15.4	<.02	<1	8.7
ALFS-003857	.48	.1	.12	4.1	1.2	.3	<.01	1.8	3.13	47.1	.02	<1	35.7
ALFS-003885	1.06	<.1	1.21	11.3	1.0	.6	.02	2.2	2.88	27.2	<.02	<1	26.8
ALFS-003852	.75	.1	.05	5.4	1.6	.3	<.01	4.6	3.11	44.8	.02	2	76.2
ALFS-003839	.48	.1	.15	7.1	1.1	.3	<.01	2.3	8.52	72.5	<.02	1	22.1
ALFS-003858	1.59	.1	.04	6.7	1.5	.4	.01	5.9	3.41	59.0	<.02	<1	65.7
ALFS-003764	1.00	.1	.28	7.7	1.7	.4	<.01	6.8	8.21	57.6	.02	2	56.1
ALFS-003770	.39	.1	.60	5.8	.6	.4	<.01	.4	1.51	45.2	<.02	<1	14.9
ALFS-003842	.38	.1	.06	6.4	.5	.2	<.01	.8	4.32	56.2	<.02	<1	6.6
ALFS-003800	.55	<.1	.15	4.5	.5	.3	.02	.7	1.61	29.1	<.02	2	9.9
ALFS-003797	.67	.1	1.71	7.1	.8	.4	.03	2.3	2.94	46.9	<.02	<1	18.9
ALFS-003787	.76	.1	.26	6.3	.8	.3	.03	3.3	3.24	35.0	.02	2	14.8
ALFS-003886	.97	<.1	1.34	11.1	1.1	.6	.09	5.5	3.20	14.9	<.02	1	25.5
ALFS-003898	.21	<.1	.12	2.8	.1	.3	.01	.1	.44	10.9	<.02	<1	1.2
STANDARD DS2	2.59	.1	2.09	14.6	3.1	28.3	.01	4.0	8.55	31.7	6.00	4	14.9

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.

UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 1 1999

DATE REPORT MAILED: Oct 15/99

SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Hg ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
ALFS-003790	1.47	37.64	48.72	117.3	79	41.1	23.1	858	4.21	8.9	1.3	1.3	13.5	59.3	.09	2.03	.71	10	1.07	.044	37.1	24.6	.56	52.5	.001	3	1.53	.005	.16	1.1	.05	20	.1	.04	4.1
ALFS-003776	1.93	7.77	14.09	24.9	85	9.7	4.9	138	1.28	3.7	.4	.7	2.1	17.9	.08	.23	.33	11	.10	.024	9.1	14.4	.11	48.5	.008	1	.58	.033	.07	1.2	.03	22	.4	.02	2.8
ALFS-003788	1.42	39.10	30.11	103.1	94	43.6	20.5	490	4.28	7.0	1.4	1.4	13.0	24.2	.06	.92	.52	12	.45	.058	36.4	19.0	.17	40.4	.001	2	.65	.006	.14	1.5	.05	22	.1	.03	2.1
ALFS-003869	1.68	33.93	19.73	66.5	81	31.3	13.1	451	2.93	26.1	3.1	5.5	5.4	126.8	.20	.87	.44	13	1.81	.060	10.7	26.7	.61	72.2	.003	3	1.60	.010	.16	.8	.05	45	1.5	.05	4.5
ALFS-003883	2.13	14.71	13.92	47.6	29	23.3	10.1	423	2.46	17.0	.8	3.8	7.5	7.1	.03	.45	.66	14	.07	.032	25.0	23.7	.54	37.2	.017	1	1.22	.008	.09	5.1	.07	5	.4	.02	4.3
ALFS-003871	2.57	21.49	12.29	41.0	69	21.5	8.9	534	2.03	32.8	6.1	3.1	1.8	173.3	.22	.61	.41	10	2.42	.053	7.1	20.8	.41	55.1	.007	3	1.06	.010	.10	2.1	.05	36	1.2	.06	3.1
ALFS-003775	.39	9.85	3.21	11.5	41	4.8	3.5	414	.63	1.0	1.2	.7	.3	238.2	.27	.24	.12	5	3.90	.041	3.9	4.5	.09	48.7	.012	2	.64	.047	.04	.6	.02	35	1.6	.03	1.0
ALFS-003766 PULP	1.12	35.05	8.04	51.3	48	14.9	15.3	523	4.31	1.5	.7	1.3	2.7	51.0	.07	.15	.22	176	.51	.053	12.4	44.1	.58	90.1	.486	1	4.22	.125	.07	.2	.14	31	.7	.07	11.6
ALFS-003853	2.67	18.15	12.53	49.1	169	22.0	8.0	496	2.58	16.9	.5	1.4	.5	6.8	.04	.56	.66	15	.04	.105	10.1	36.5	.41	28.5	.002	1	1.10	.025	.07	1.7	.03	31	.3	.12	5.1
ALFS-003878	2.81	8.05	9.77	19.5	50	8.4	3.6	140	1.39	13.1	.5	1.0	2.1	8.9	.04	.25	.44	14	.07	.021	12.1	21.4	.17	45.2	.014	1	.77	.024	.08	5.6	.06	16	.2	.02	3.9
ALFS-003778	2.87	6.15	5.62	12.0	41	6.5	2.6	127	.77	3.8	.3	1.3	1.7	25.0	.06	.13	.18	10	.22	.020	8.7	16.7	.08	48.5	.008	<1	.51	.032	.06	2.0	.04	16	.2	.02	2.7
ALFS-003900	3.35	8.74	3.09	18.3	59	4.3	1.6	52	.64	3.5	.3	.6	.2	24.6	.32	.18	.11	9	.18	.025	14.4	19.6	.03	44.5	.007	1	.29	.025	.06	6.1	.03	16	.2	<.02	1.6
ALFS-003874	2.26	10.08	8.37	39.3	58	18.7	6.2	214	2.10	19.4	.5	1.0	5.5	6.1	.05	.38	.77	16	.03	.020	21.1	24.5	.40	39.0	.012	1	1.06	.009	.09	2.1	.08	12	.2	.15	4.4
ALFS-003893	1.69	24.52	22.76	66.4	68	29.2	15.7	497	3.34	31.5	2.4	3.3	6.6	34.0	.25	.51	.57	17	.36	.040	19.7	30.9	.63	72.0	.006	1	1.73	.009	.14	2.3	.06	26	.6	.06	5.1
ALFS-003851	2.44	36.32	23.10	103.4	48	45.3	20.8	1021	4.20	47.3	1.4	4.3	8.3	10.4	.10	.65	.45	15	.10	.044	27.8	32.9	.88	36.5	.001	<1	2.06	.014	.10	1.7	.03	9	.2	.08	5.9
ALFS-003784	3.87	7.24	11.27	16.9	55	8.0	3.7	152	1.29	6.3	.4	.2	3.5	9.9	.02	.15	.22	12	.05	.023	16.5	24.0	.14	45.7	.009	1	.74	.024	.07	6.9	.05	18	.2	.03	3.6
ALFS-003795	2.66	25.52	27.35	75.9	85	28.1	14.0	708	2.95	5.6	1.1	.8	4.8	29.2	.10	1.03	.30	11	.41	.085	15.9	28.4	.41	72.7	.005	1	1.45	.016	.12	1.7	.06	43	.3	.03	4.2
RE ALFS-003795	2.80	26.85	28.55	76.8	91	28.5	14.7	727	3.00	5.8	1.1	.8	4.9	29.9	.08	1.11	.32	12	.42	.089	15.8	26.3	.43	74.3	.005	1	1.48	.016	.12	1.9	.06	50	.4	.05	4.6
ALFS-003843	2.11	35.53	13.92	63.8	29	32.0	16.4	425	2.58	33.5	2.6	3.8	18.0	8.9	.06	.37	.29	11	.04	.042	37.9	24.3	.44	45.8	.016	1	1.18	.005	.15	3.4	.05	<5	.4	<.02	3.4
ALFS-003793	2.08	28.62	35.15	85.9	80	28.2	17.5	844	2.90	4.2	1.4	1.2	6.5	19.8	.12	.70	.33	10	.19	.062	27.9	18.1	.38	66.1	.002	1	1.19	.006	.16	1.4	.07	30	.1	.03	3.6
ALFS-003772	2.60	12.73	20.74	60.6	68	17.8	10.4	586	3.57	20.3	.5	.9	6.1	8.4	.06	.58	.39	24	.03	.050	30.3	23.6	.29	62.5	.012	1	1.21	.009	.07	3.9	.06	12	.3	.04	5.7
ALFS-003769	2.34	20.69	21.52	97.4	78	30.8	16.7	442	3.21	31.2	1.7	2.9	6.4	32.9	.35	.90	.49	20	.32	.075	22.2	33.7	.78	78.7	.006	1	1.58	.012	.10	1.5	.06	27	.7	.03	4.8
ALFS-003872	3.15	18.62	15.18	46.5	50	22.5	10.7	849	2.65	43.3	1.7	2.7	5.0	114.2	.13	.45	.47	14	1.84	.041	16.0	29.2	.50	67.5	.011	2	1.31	.011	.13	5.6	.07	19	.8	.05	3.8
ALFS-003884	2.45	4.60	8.16	26.0	44	10.7	4.3	197	1.88	15.9	.4	1.5	4.9	4.9	.03	.49	.38	22	.02	.016	25.7	18.8	.21	30.5	.019	<1	.84	.012	.09	2.1	.06	8	.1	.02	5.0
ALFS-003901	1.66	6.53	1.82	22.0	79	2.0	1.0	39	.33	.7	.2	.2	.1	35.1	.30	.06	.06	7	.28	.022	2.6	8.6	.03	60.6	.010	<1	.20	.061	.05	2.9	<.02	16	.1	<.02	.8
ALFS-003783	3.51	23.09	82.52	47.2	105	22.6	64.5	3072	5.67	13.7	1.9	.6	8.6	64.6	.10	.37	.54	32	.56	.049	17.8	35.2	.23	175.4	.013	1	2.22	.019	.09	2.3	.15	21	.5	.06	8.7
ALFS-003862	5.24	13.11	17.16	57.0	64	13.8	6.6	465	1.94	11.3	1.2	2.6	5.0	23.2	.33	1.56	.13	3	.47	.024	9.3	26.0	.10	29.1	.001	1	.32	.006	.08	8.7	.02	20	.4	.03	.8
ALFS-003875	1.79	14.33	12.41	37.6	103	16.6	7.8	322	1.85	23.1	.9	1.2	1.6	17.2	.18	.32	.43	15	.14	.044	13.3	15.6	.30	104.6	.013	1	1.18	.027	.13	1.8	.09	30	.2	<.02	4.6
ALFS-003777	4.04	4.05	4.26	9.9	21	4.1	1.8	84	.95	4.7	.2	.6	1.9	7.9	.02	.15	.13	12	.03	.019	16.3	22.9	.08	32.7	.009	<1	.51	.026	.05	7.5	.04	16	.1	<.02	3.2
ALFS-003889	1.93	18.15	21.38	70.0	63	25.0	12.3	577	2.97	35.0	2.3	3.8	6.0	82.0	.13	.44	.58	17	1.11	.051	15.3	29.7	.59	82.7	.010	2	1.56	.011	.14	1.4	.07	29	.9	.04	4.5
ALFS-003838	1.45	25.03	17.34	80.2	16	27.0	12.1	442	3.43	12.8	.7	1.0	12.8	9.8	.10	.27	.32	12	.08	.060	33.8	24.9	.59	37.7	.004	<1	1.47	.009	.11	1.9	.03	8	.2	.04	4.4
ALFS-003881	.76	22.59	19.27	76.4	45	30.5	12.9	349	3.23	28.7	2.0	3.7	7.9	121.7	.11	.52	.42	15	1.49	.027	14.0	29.6	.66	78.0	.003	2	1.78	.012	.18	.5	.06	39	.8	.02	4.8
ALFS-003856	2.04	31.41	18.97	83.5	34	37.5	14.4	520	4.22	22.2	.8	1.2	4.2	7.3	.05	.73	.46	20	.06	.102	19.4	40.2	.96	32.2	.004	1	2.15	.013	.10	2.3	.04	18	.4	.09	7.0
ALFS-003855	1.26	45.47	30.25	110.4	26	55.0	27.2	1786	5.27	27.5	.8	2.4	7.7	10.8	.10	.54	.48	21	.17	.093	30.0	37.0	1.51	40.0	.003	1	2.92	.009	.12	.5	.03	7	.1	.08	7.9
STANDARD DS2	13.76	130.64	31.08	166.9	245	37.3	13.3	842	3.22	61.3	21.2	212.0	3.5	30.4	11.69	9.89	11.02	84	.56	.091	18.0	173.9	.61	146.0	.117	2	1.81	.033	.17	7.3	1.87	247	2.7	1.87	6.4

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
ALFS-003790	.68	.1	.07	6.6	2.3	.6	.02	8.5	12.54	64.6	.03	2	42.7
ALFS-003776	.43	<.1	.60	4.9	.5	.7	.01	1.1	1.40	15.8	<.02	2	18.2
ALFS-003788	.79	.1	.07	6.2	2.5	.5	<.01	6.7	12.35	66.4	.03	2	11.2
ALFS-003869	.50	<.1	.64	8.8	1.6	.6	.12	5.9	5.07	18.7	.02	3	42.0
ALFS-003883	.96	.1	.82	9.8	1.2	.7	<.01	1.6	3.52	46.8	.02	1	42.2
ALFS-003871	.63	<.1	.92	7.5	.8	1.0	.09	3.3	3.23	13.1	<.02	<1	22.9
ALFS-003775	.17	<.1	.48	2.2	.4	.3	.14	2.0	2.24	7.0	<.02	2	6.6
ALFS-003766 PULP	1.12	.2	.52	5.6	9.4	1.4	.01	45.0	17.00	32.2	.06	3	11.0
ALFS-003853	.46	<.1	.13	4.1	.2	.2	.01	.5	.80	16.7	<.02	<1	35.3
ALFS-003878	.92	<.1	.95	10.1	.6	.6	<.01	.4	1.53	23.3	<.02	<1	15.9
ALFS-003778	.29	<.1	.80	4.4	.4	.4	.01	.9	1.11	16.7	<.02	1	6.7
ALFS-003900	.33	<.1	.23	3.5	.1	.4	<.01	.3	1.01	25.0	<.02	2	1.6
ALFS-003874	.83	<.1	.85	9.1	1.0	.6	<.01	1.3	1.98	38.6	<.02	2	31.9
ALFS-003893	.76	<.1	.86	11.1	1.6	.6	.01	3.3	5.04	33.3	.02	<1	48.3
ALFS-003851	.63	.1	.04	4.2	1.5	.3	<.01	2.4	3.40	48.2	.02	2	74.7
ALFS-003784	.41	<.1	.71	6.5	.6	.4	<.01	.6	1.53	30.1	<.02	<1	13.9
ALFS-003795	.79	.1	.40	7.3	1.9	.4	.05	6.7	10.54	28.5	.03	2	34.5
21 RE ALFS-003795	.85	.1	.45	7.7	2.1	.5	.05	6.7	11.19	30.4	.03	2	34.4
ALFS-003843	.53	.1	.18	7.8	.8	.4	<.01	3.4	6.74	69.8	<.02	1	20.3
ALFS-003793	1.20	.1	.21	10.0	2.1	.4	.01	5.2	14.55	52.1	.03	2	26.1
ALFS-003772	.59	.1	.91	7.2	1.1	.5	<.01	1.0	2.12	54.5	.02	2	30.3
ALFS-003769	.83	.1	.54	7.5	1.7	.5	.02	3.0	6.03	39.7	.02	<1	43.6
ALFS-003872	.94	<.1	1.11	10.0	1.5	.6	.04	2.9	4.84	26.6	.02	1	35.5
ALFS-003884	.78	.1	.99	8.5	.7	.8	<.01	.9	1.48	44.2	<.02	2	13.8
ALFS-003901	.12	<.1	.21	1.6	.1	.3	.02	.4	.34	4.7	<.02	<1	.5
ALFS-003783	1.10	.1	2.02	13.7	2.0	.8	<.01	5.0	4.17	39.4	.06	2	46.6
ALFS-003862	.18	<.1	.06	3.5	.9	.3	.02	2.8	5.45	19.1	<.02	2	4.8
ALFS-003875	1.41	<.1	1.14	15.6	1.0	.8	<.01	.6	2.81	23.4	.02	1	26.7
ALFS-003777	.15	<.1	.54	3.2	.3	.4	<.01	.2	.94	27.8	<.02	1	5.1
ALFS-003889	.96	.1	1.71	11.4	1.7	.8	.07	4.2	4.66	24.9	.02	2	42.8
ALFS-003838	.35	.1	.19	6.5	.9	.2	<.01	3.1	4.42	59.1	<.02	2	37.9
ALFS-003881	.49	<.1	.62	8.8	1.8	.4	.07	7.5	3.92	21.8	.02	2	44.6
ALFS-003856	.64	.1	.31	6.1	1.0	.3	.01	5.5	2.05	30.8	.02	<1	64.0
ALFS-003855	.46	.1	.13	4.4	2.0	.2	<.01	3.9	4.58	50.2	.02	<1	105.2
STANDARD DS2	2.58	<.1	2.05	14.7	3.0	26.6	.01	4.1	8.30	31.2	5.57	3	14.0

Sample type: SOIL.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Hg ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Pb ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
ALFS-003865	1.24	63.42	42.16	113.3	34	50.5	32.4	1152	4.82	7.3	3.1	.8	12.9	16.5	.05	.35	.93	24	.08	.027	35.1	41.6	1.16	74.6	.001	2	2.77	.009	.16	.9	.04	9	.4	.08	7.8
ALFS-003882	2.80	10.06	12.38	38.9	73	17.9	7.5	279	2.12	16.6	.7	1.2	5.2	9.4	.04	.37	.59	16	.05	.026	20.4	23.4	.35	56.8	.008	1	1.17	.011	.12	3.2	.08	19	.3	.02	4.3
ALFS-003841	.84	32.58	5.79	54.0	14	32.8	14.8	538	3.19	4.0	.8	.2	15.7	6.8	.05	.55	.37	14	.02	.025	49.4	24.9	.77	50.3	.003	1	1.71	.005	.15	1.0	.05	9	.4	.05	4.9
ALFS-003798	3.09	10.33	15.70	37.9	60	14.6	7.5	373	2.20	8.4	.6	1.5	6.3	6.1	.02	.31	.38	16	.04	.036	34.5	20.6	.26	39.0	.003	1	.89	.011	.12	2.5	.05	37	.3	.05	4.8
ALFS-003773	2.52	5.29	9.09	29.1	134	5.6	3.8	465	1.13	4.2	.2	<.2	1.2	18.2	.13	.15	.34	14	.11	.025	15.5	15.4	.11	54.8	.009	<1	.56	.038	.08	4.4	.05	15	.3	.10	3.1
ALFS-003796	2.30	30.29	28.37	90.4	61	35.5	15.0	626	3.62	4.9	1.1	1.0	8.0	24.9	.10	.39	.39	15	.24	.066	24.3	31.1	.64	57.8	.003	1	1.72	.011	.12	1.7	.04	25	.6	.05	5.1
ALFS-003837	1.23	25.79	29.13	89.9	35	31.5	15.9	620	3.66	7.1	1.3	.9	13.5	12.0	.10	.48	.39	13	.07	.051	36.9	26.5	.58	54.1	.004	<1	1.53	.009	.12	1.5	.05	14	.3	.02	4.0
ALFS-003873	1.21	36.75	11.16	40.5	95	20.4	7.3	542	1.79	24.7	7.8	4.3	2.4	233.3	.25	1.26	.41	10	3.32	.085	7.3	16.2	.41	87.2	.004	5	1.35	.018	.15	.8	.09	72	3.3	.07	3.7
ALFS-003799 PULP	1.14	34.07	8.81	56.3	41	15.2	15.5	501	4.28	2.5	.8	<.2	3.3	53.8	.05	.09	.23	179	.51	.040	13.7	46.3	.59	93.6	.465	<1	4.34	.166	.07	<.2	.18	40	.2	.11	11.8
ALFS-003861	3.51	17.15	15.17	68.7	22	33.0	13.8	863	3.49	72.7	.8	5.5	5.9	6.8	.05	.59	.33	17	.06	.053	20.8	39.7	.72	34.8	.002	1	1.60	.014	.08	6.6	.04	13	.3	.07	5.4
ALFS-003891	2.41	13.15	15.55	45.2	27	22.1	9.8	379	2.53	22.4	.9	2.3	8.1	7.5	.02	.39	.47	16	.05	.024	33.1	26.6	.50	50.0	.011	<1	1.34	.009	.13	2.9	.07	10	.3	.04	4.1
ALFS-003860	4.17	17.97	13.01	63.8	15	26.4	11.2	583	3.15	64.8	.8	3.0	5.3	5.4	.03	.60	.30	14	.04	.041	17.0	34.4	.57	29.0	.002	<1	1.36	.016	.08	7.8	.03	12	.2	.05	4.5
ALFS-003890	2.93	24.82	17.32	64.6	67	27.3	12.5	310	2.93	22.4	3.2	2.3	5.9	46.9	.26	.60	.32	13	.72	.044	14.5	29.3	.52	48.8	.004	1	1.34	.008	.11	2.6	.04	19	.8	.03	3.8
RE ALFS-003890	2.95	25.67	17.38	64.9	66	27.3	12.4	307	2.95	23.2	3.2	3.3	6.0	47.2	.25	.59	.32	13	.73	.044	15.0	26.9	.52	49.0	.004	1	1.33	.008	.11	2.8	.04	20	.8	.05	3.9
ALFS-003791	1.57	54.23	72.72	142.1	149	54.6	52.3	798	4.75	13.9	2.0	2.3	12.5	50.0	.10	.64	.89	15	.70	.054	29.0	34.4	.86	81.3	.002	1	2.21	.007	.24	1.4	.06	59	.2	.08	5.9
ALFS-003765	1.77	5.08	9.78	14.1	48	6.2	3.7	204	.95	5.0	.2	.7	.6	9.9	.06	.15	.16	13	.04	.027	8.4	8.3	.11	44.0	.008	<1	.51	.050	.06	1.4	.04	18	.2	<.02	2.5
ALFS-003780	1.15	23.41	9.04	59.2	56	20.1	7.1	370	2.18	10.0	6.4	1.0	2.2	146.3	.23	.34	.21	14	1.70	.062	12.9	21.6	.37	107.5	.006	2	1.48	.029	.12	1.8	.06	36	.7	.05	3.8
ALFS-003896	1.93	18.61	19.72	80.6	62	28.4	12.5	379	3.12	21.1	1.0	3.0	6.3	37.7	.30	.60	.44	16	.39	.069	19.6	28.6	.62	68.3	.003	2	1.64	.009	.18	1.0	.06	47	.8	.04	5.2
ALFS-003859	4.01	13.39	8.22	34.5	20	16.1	5.2	232	2.08	31.1	.6	1.1	1.2	5.4	.03	.53	.23	18	.03	.039	14.4	32.1	.30	26.9	.006	1	.88	.026	.08	6.3	.03	25	.3	.04	4.0
ALFS-003801	3.76	16.99	18.44	51.2	28	19.9	6.7	298	2.65	11.2	1.1	.8	6.8	6.1	.03	.30	.26	12	.02	.029	31.4	33.2	.43	37.2	.002	1	1.24	.012	.11	2.9	.04	19	.3	.03	4.3
ALFS-003894	2.54	21.85	21.12	67.7	40	26.2	15.6	331	3.10	22.2	1.7	5.9	7.9	44.1	.56	.65	.43	16	.56	.044	24.5	30.0	.58	60.1	.003	2	1.54	.010	.17	3.7	.06	28	.8	.04	5.1
ALFS-003794	2.60	31.55	28.88	83.3	54	31.8	16.2	520	3.27	3.8	1.5	.2	8.1	30.8	.07	.56	.38	11	.48	.053	33.1	31.1	.55	48.2	.002	1	1.55	.015	.16	2.0	.05	32	.1	.03	4.5
ALFS-003786	4.12	5.11	7.25	19.0	10	8.5	3.1	148	1.49	6.3	.4	1.3	5.4	7.3	.02	.20	.22	20	.03	.012	28.1	22.8	.17	39.7	.012	<1	.82	.013	.07	6.8	.05	6	.2	.03	5.2
ALFS-003789	2.33	26.37	13.18	70.3	48	36.0	15.5	587	3.29	4.5	1.0	.7	8.9	301.6	.12	1.26	.25	37	1.74	.069	26.2	40.8	.85	78.7	.166	3	2.41	.108	.24	.7	.15	<5	.1	.05	7.6
ALFS-003844	2.27	19.01	18.30	37.1	14	17.7	5.7	146	2.25	37.7	1.8	16.7	3.4	10.6	.04	.48	.31	13	.02	.040	33.9	19.5	.23	51.8	.007	1	.97	.004	.17	3.1	.11	6	.3	.03	3.0
ALFS-003802	2.11	40.07	30.37	114.7	137	30.7	16.2	753	3.38	11.2	4.7	1.1	6.7	123.9	.15	.57	.44	15	.83	.068	20.4	29.7	.59	101.1	.002	2	1.98	.015	.19	1.3	.07	38	.8	.05	5.1
ALFS-003781	2.13	11.96	5.33	20.5	40	8.6	3.6	190	1.05	4.5	3.4	.7	.7	138.7	.15	.20	.12	9	1.41	.041	6.6	12.3	.14	57.1	.008	1	.77	.062	.07	4.1	.03	24	.5	.04	2.2
ALFS-003870	2.01	23.53	16.56	63.9	56	28.4	12.9	483	2.94	26.8	1.2	5.6	5.7	129.9	.11	.72	.33	12	2.94	.039	11.5	27.9	.52	45.2	.002	2	1.33	.007	.11	1.3	.03	25	.8	.06	3.7
ALFS-003887	1.27	38.19	27.32	80.3	104	30.0	14.4	710	3.30	37.2	2.3	5.6	7.8	116.9	.28	.64	.73	19	1.55	.051	18.2	28.2	.65	93.3	.007	4	1.76	.011	.18	1.8	.10	36	2.2	.08	5.0
ALFS-003880	1.02	26.24	23.57	73.9	49	32.9	14.5	287	3.36	31.7	1.6	8.8	9.1	97.3	.10	.71	.51	17	1.15	.023	19.8	25.8	.65	83.8	.002	2	1.90	.012	.17	.5	.06	31	.9	.06	5.5
ALFS-003902	.81	42.11	38.16	97.5	114	36.4	22.6	623	4.01	30.4	2.1	3.1	11.5	23.5	.18	1.27	.62	20	.14	.060	25.4	28.4	.66	100.1	.002	2	2.08	.011	.23	.3	.08	31	.6	.05	5.9
ALFS-003763	1.65	29.08	27.37	88.7	31	33.7	19.8	515	3.89	36.4	2.4	2.5	10.2	18.4	.05	.74	.63	24	.10	.032	32.3	34.2	.75	98.1	.004	1	2.21	.008	.23	1.0	.07	12	.7	.05	6.3
ALFS-003768	3.08	8.44	10.90	35.7	20	13.7	7.3	729	1.97	7.2	.4	4.6	4.4	17.2	.06	.30	.27	18	.08	.020	21.9	26.8	.34	120.0	.005	1	1.19	.028	.08	5.4	.06	18	.2	.02	4.4
ALFS-003779	2.11	11.09	5.92	18.0	54	8.7	4.2	262	1.02	3.0	1.2	<.2	1.1	89.7	.33	.14	.12	12	1.00	.027	6.8	10.2	.13	61.9	.012	1	.84	.068	.07	1.5	.04	21	.3	.03	3.0
STANDARD DS2	14.41	133.02	30.81	168.7	250	37.7	12.7	844	3.24	60.6	21.8	209.9	3.7	29.5	11.45	10.36	11.23	84	.53	.080	18.0	174.2	.62	147.4	.117	2	1.83	.034	.17	7.7	1.95	272	2.7	1.77	6.3

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
ALFS-003865	1.10	.1	.04	5.6	1.7	.7	<.01	9.1	6.94	51.4	.02	1	109.9
ALFS-003882	1.30	.1	1.01	14.4	1.1	.8	<.01	1.1	2.28	32.8	<.02	<1	30.7
ALFS-003841	.74	.1	.15	7.8	.9	.1	<.01	4.3	4.90	69.4	<.02	<1	47.8
ALFS-003798	2.20	.1	.21	8.9	.7	.3	.02	1.3	2.03	56.0	<.02	2	20.9
ALFS-003773	.43	<.1	.53	6.2	.5	.3	<.01	.2	.87	25.3	<.02	<1	10.3
ALFS-003796	.53	.1	.15	5.8	1.7	.3	.01	8.0	8.92	37.2	.03	2	50.3
ALFS-003837	.56	.1	.26	7.0	1.2	.2	.01	1.9	7.29	63.4	<.02	<1	35.7
ALFS-003873	1.07	.1	1.57	11.6	1.1	1.2	.33	10.0	4.84	10.6	<.02	3	22.5
ALFS-003799 PULP	1.14	.1	.56	5.3	9.9	1.3	<.01	50.6	16.42	30.1	.05	<1	11.6
ALFS-003861	.68	.1	.15	4.7	1.1	.2	<.01	4.6	2.12	30.8	.02	2	53.1
ALFS-003891	.99	.1	.80	9.8	1.2	.7	<.01	1.9	3.82	54.2	.02	<1	40.3
ALFS-003860	.43	.1	.13	4.1	.9	.2	.01	3.8	1.48	26.1	<.02	1	38.8
ALFS-003890	.43	<.1	.53	6.2	1.3	.5	.05	4.9	4.96	22.2	.02	2	40.8
RE ALFS-003890	.44	.1	.53	6.3	1.4	.5	.05	4.8	4.89	22.1	<.02	<1	39.5
ALFS-003791	1.04	.1	.12	7.1	2.4	.2	.06	11.8	12.32	44.0	.03	<1	68.8
ALFS-003765	.48	<.1	.32	4.8	.3	.3	<.01	.2	.81	15.0	<.02	<1	8.7
ALFS-003780	.58	<.1	1.07	9.7	1.3	.7	.10	3.6	4.20	17.6	<.02	<1	30.4
ALFS-003896	.76	.1	.61	12.5	1.7	.4	.04	4.1	4.19	28.6	.02	<1	41.2
ALFS-003859	.43	<.1	.25	4.2	.4	.2	.02	.7	1.07	20.1	<.02	<1	20.6
ALFS-003801	.73	.1	.18	6.2	.8	.3	<.01	2.6	2.05	48.5	<.02	<1	36.2
ALFS-003894	.78	.1	.70	12.6	1.6	.4	.03	4.9	4.94	37.1	.02	<1	39.8
ALFS-003794	.63	.1	.19	6.8	1.5	.3	.02	6.8	8.48	50.0	.02	1	38.6
ALFS-003786	.39	.1	1.23	7.2	.7	.6	<.01	1.7	1.82	47.7	<.02	<1	14.1
ALFS-003789	.61	.1	5.17	14.0	3.3	1.1	.04	13.6	9.84	39.3	.03	1	25.9
ALFS-003844	1.13	.1	.32	12.5	.4	.4	<.01	.5	4.17	50.7	<.02	<1	11.5
ALFS-003802	2.69	.1	.37	10.7	1.8	.7	.07	6.7	8.98	29.8	.02	<1	56.6
ALFS-003781	.29	<.1	.73	5.2	.5	.5	.09	2.2	2.31	9.8	<.02	<1	11.1
ALFS-003870	.37	<.1	.42	5.6	1.3	.3	.09	4.8	3.35	16.6	<.02	2	34.1
ALFS-003887	1.30	.1	2.02	16.4	2.5	.8	.12	8.6	7.33	27.9	.02	6	46.1
ALFS-003880	.61	.1	.73	8.6	2.1	.5	.07	9.6	5.35	30.4	.02	<1	49.6
ALFS-003902	.97	.1	.70	11.8	2.5	.4	.02	9.8	8.06	38.6	.03	<1	50.4
ALFS-003763	.94	.1	.47	12.3	1.8	.6	<.01	3.2	4.37	51.4	.02	<1	55.1
ALFS-003768	.51	<.1	.62	6.7	.9	.4	<.01	2.0	1.56	34.2	<.02	<1	24.5
ALFS-003779	.34	<.1	1.03	4.9	.8	.4	.05	2.5	1.76	10.4	<.02	<1	11.9
STANDARD DS2	2.51	.1	2.01	14.1	3.2	27.7	.02	4.1	8.09	28.4	5.93	2	13.9

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Li ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
ALFS-003899 PULP	1.15	34.32	8.98	56.0	43	15.3	15.6	506	4.39	2.3	.7	1.4	3.0	55.8	.08	.15	.23	187	.55	.044	13.5	47.3	.59	92.8	.486	1	4.50	.161	.07	.2	.14	25	.3	.04	11.8
ALFS-004586	.39	36.90	12.24	109.1	33	42.1	20.6	721	4.08	.7	1.4	.8	7.0	7.4	.10	.38	.50	24	.03	.064	55.1	31.6	.90	107.4	.010	1	2.08	.007	.15	.2	.06	<.1	<.02	6.5	
ALFS-004595	.68	18.77	17.33	96.6	16	35.7	21.8	1100	4.05	2.0	.8	.9	1.9	9.3	.17	.44	.46	31	.02	.040	17.5	31.3	.65	82.9	.014	<1	1.64	.013	.12	.6	.07	9	.4	.02	6.6
ALFS-004289	.49	5.78	3.48	14.1	198	3.3	1.3	43	.63	1.0	.3	.5	.1	7.3	.02	.18	.29	11	.03	.027	7.2	7.4	.09	24.5	.009	<1	.30	.046	.07	1.1	.02	17	.2	.02	1.5
ALFS-004285	.88	12.05	15.45	37.7	96	13.2	5.6	239	2.05	9.6	.5	3.7	5.4	6.6	.04	.38	.31	15	.02	.051	24.7	20.7	.25	40.2	.003	<1	.97	.009	.11	4.3	.04	25	.3	.02	4.3
ALFS-004604	.55	8.35	15.16	69.2	16	29.1	18.9	438	3.90	1.2	.8	.6	1.6	6.8	.07	.31	.67	33	.01	.037	10.8	27.9	.44	49.3	.011	<1	.92	.019	.13	.3	.06	13	.3	.09	4.6
ALFS-004589	.60	11.21	18.78	62.9	41	13.2	8.6	629	2.14	3.2	.6	.4	1.5	149.8	.26	.21	.29	8	2.68	.084	13.9	15.9	.28	83.4	.003	1	.79	.004	.14	2.1	.05	31	.2	.04	2.0
ALFS-004287	1.26	18.98	18.64	73.9	210	24.3	10.8	535	3.12	4.9	.8	.9	7.5	13.9	.07	.30	.59	15	.08	.047	26.8	31.2	.59	48.5	.003	1	1.56	.022	.14	3.0	.04	36	.3	.08	5.7
ALFS-004293	.91	12.13	15.34	30.7	64	12.0	5.0	216	1.78	13.7	.6	1.6	1.6	10.3	.05	.36	.28	15	.07	.064	17.1	17.7	.20	58.4	.007	1	1.12	.029	.13	3.7	.06	19	.3	<.02	4.3
ALFS-004593	.94	20.48	34.63	84.5	53	29.4	15.8	840	3.82	5.5	.9	.5	2.0	6.0	.09	.56	.83	30	.02	.075	31.6	24.9	.57	63.1	.010	<1	1.68	.006	.12	.9	.09	27	.4	.07	7.1
RE-ALFS-004593	.98	20.07	36.36	82.9	52	28.6	15.3	829	3.77	5.0	1.0	1.2	1.8	6.1	.12	.58	.63	29	.02	.076	31.0	30.9	.57	62.5	.010	1	1.66	.007	.12	1.1	.08	30	.5	.07	7.0
ALFS-004587	1.04	22.48	45.04	88.4	108	25.6	21.7	2402	3.10	14.3	1.0	1.0	1.4	81.7	.35	.98	.32	11	2.32	.094	15.5	21.5	.31	114.8	.003	2	1.09	.004	.12	2.3	.06	66	.5	.04	3.2
ALFS-004584	.81	24.90	26.14	107.8	41	34.8	10.9	642	4.16	3.4	1.4	.6	7.3	13.0	.05	.29	.54	20	.03	.058	19.1	29.3	.87	38.9	.003	1	2.16	.016	.14	.5	.04	31	.4	.02	7.5
ALFS-004296	.54	29.60	33.82	73.6	86	23.2	9.7	378	3.98	2.4	2.0	3.5	18.8	20.6	.06	.42	.45	8	.14	.056	29.1	19.2	.55	45.5	.002	<1	1.15	.009	.19	1.1	.03	9	.4	<.02	3.1
ALFS-004606	.79	25.72	27.90	72.0	39	24.4	11.5	502	3.77	10.5	1.1	.8	6.5	9.4	.10	.45	.58	22	.04	.040	27.2	29.1	.58	36.5	.007	<1	1.69	.011	.12	.9	.05	27	.5	.02	7.8
ALFS-004291	.37	4.49	5.74	13.9	147	3.1	4.4	226	.68	<.1	.6	.2	.2	40.9	.07	.09	.12	11	.33	.039	4.3	9.6	.07	47.0	.012	<1	.54	.051	.05	1.4	.02	25	.3	<.02	2.6
ALFS-004294	.78	21.19	9.94	37.5	39	27.8	12.6	386	2.52	57.1	.9	7.0	14.5	14.6	.05	.34	.26	14	.13	.046	32.1	21.6	.49	59.8	.011	<1	1.26	.006	.11	1.6	.04	7	.1	.02	3.3
ALFS-004286	.69	13.61	12.20	36.1	185	12.2	4.2	242	2.01	4.5	.6	1.8	5.2	9.6	.03	.38	.49	20	.02	.041	23.6	17.2	.23	37.3	.008	1	.86	.023	.14	2.7	.04	20	.3	.08	6.2
ALFS-004592	.38	35.80	15.46	124.1	33	42.8	21.0	514	4.74	3.1	1.0	.6	11.8	7.8	.17	.36	.50	20	.03	.027	56.6	33.6	.96	50.5	.002	<1	2.48	.008	.15	.2	.04	11	.3	.08	7.0
ALFS-004297	.22	40.39	20.62	102.3	68	39.6	16.9	526	4.04	.8	1.0	.5	20.9	130.0	.06	.15	.43	9	3.78	.057	55.8	28.5	.90	23.3	.003	<1	1.87	.004	.05	.2	.02	<.5	<.1	.03	4.6
ALFS-004602	.54	15.94	18.07	54.8	30	23.3	25.8	2059	3.96	.8	1.0	.7	6.2	7.2	.16	.28	.47	28	.02	.037	6.5	27.5	.36	64.9	.007	<1	1.11	.019	.10	.3	.05	19	.3	<.02	5.9
ALFS-004284	.42	6.47	9.02	9.6	151	4.0	1.5	53	.60	.8	.4	.7	.4	8.1	.04	.09	.09	7	.04	.050	4.1	7.6	.06	33.2	.008	1	.37	.042	.08	.9	.02	45	.2	<.02	1.5
ALFS-004596	.49	16.74	21.00	88.7	14	39.1	22.8	827	4.22	.7	.8	<.2	4.8	7.5	.12	.53	.43	27	.01	.045	20.4	32.2	.64	63.6	.010	1	1.47	.010	.11	.5	.04	12	.3	.02	4.9
ALFS-004598	.72	26.02	14.72	86.1	19	34.3	18.4	881	3.85	1.9	.8	.3	6.4	8.3	.11	.27	.46	19	.01	.051	11.0	35.4	.68	65.3	.004	1	1.88	.019	.12	.5	.05	12	.3	.02	7.5
ALFS-004608	.51	24.96	22.04	83.7	27	32.7	17.0	728	4.39	6.4	.8	.7	10.0	6.1	.07	.52	.54	26	.01	.033	28.4	29.7	.76	49.6	.011	1	1.87	.008	.13	.7	.05	11	.3	.02	7.8
ALFS-004583	.85	15.42	34.42	70.9	34	26.5	14.9	709	3.65	2.8	.9	.9	2.0	7.1	.18	.60	.44	29	.04	.067	25.8	29.0	.58	48.2	.017	1	1.41	.009	.14	.9	.05	38	.4	<.02	5.7
ALFS-004295	.70	26.28	13.39	61.4	35	31.1	13.1	505	3.13	33.2	1.0	4.6	17.4	17.6	.05	.33	.31	12	.18	.052	46.7	28.1	.64	48.5	.004	<1	1.59	.007	.12	1.6	.04	6	<.1	<.02	4.0
ALFS-004597	.20	5.56	10.22	69.4	15	34.0	17.4	592	4.35	<.1	.8	.6	5.0	7.0	.16	.35	.41	22	.03	.053	7.3	33.4	.46	53.0	.012	1	1.27	.019	.14	.2	.04	15	.3	<.02	4.8
ALFS-004585	.71	6.15	16.48	46.5	22	18.4	8.8	230	3.25	<.1	.9	.3	2.8	6.4	.18	.34	.46	29	.01	.035	21.9	29.4	.31	40.6	.013	1	.74	.008	.14	.8	.05	31	.2	<.02	3.9
ALFS-004603	.48	13.43	12.20	73.4	29	27.6	16.2	680	3.98	.2	.9	.5	2.2	7.6	.21	.29	.49	30	.01	.060	7.0	32.6	.51	49.0	.009	1	1.34	.022	.11	.4	.05	25	.3	<.02	6.1
ALFS-004298	.48	34.46	27.53	102.4	89	46.8	19.1	580	4.20	5.8	1.8	.4	19.6	22.5	.06	.28	.53	8	.52	.080	45.4	20.1	.64	41.6	.003	<1	1.41	.008	.13	.5	.04	5	.1	.02	3.1
ALFS-004607	.53	24.29	19.48	83.3	44	29.8	13.1	542	4.06	6.1	.9	.3	8.1	6.7	.10	.62	.51	24	.02	.035	27.7	30.6	.68	38.5	.005	1	1.75	.009	.12	1.0	.05	22	.4	<.02	6.9
ALFS-004283	1.11	25.32	24.90	100.0	70	28.3	16.1	684	3.19	12.1	1.9	1.4	9.3	43.1	.14	.33	.36	12	.21	.038	35.1	26.4	.60	49.5	.002	1	1.59	.008	.15	2.4	.04	21	.3	.02	4.5
ALFS-004292	.97	7.51	7.69	25.1	134	9.9	3.8	213	1.47	7.2	.5	.3	1.5	17.4	.04	.25	.19	12	.14	.039	15.6	20.9	.17	54.7	.006	1	.79	.032	.10	7.3	.04	13	.3	<.02	3.6
STANDARD DS2	13.59	128.90	30.04	164.5	253	37.2	12.7	821	3.15	61.1	21.8	205.5	3.6	29.7	11.47	10.27	11.49	82	.55	.081	17.7	173.7	.60	143.6	.114	2	1.77	.032	.17	7.5	1.90	251	2.6	1.81	6.1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
ALFS-003899 PULP	1.16	.1	.53	5.5	9.8	1.9	<.01	50.0	16.90	32.6	.06	<1	12.6
ALFS-004586	1.98	.1	.23	10.7	1.2	.5	<.01	3.4	7.55	98.8	<.02	<1	52.4
ALFS-004595	1.50	.1	.35	9.2	.9	.6	.02	.5	3.65	35.2	.02	<1	43.9
ALFS-004289	.53	<.1	.09	2.8	.2	.3	.02	.1	.47	12.8	<.02	<1	5.2
ALFS-004285	.68	.1	.27	5.7	.6	.2	.03	2.0	1.56	40.3	<.02	<1	21.1
ALFS-004604	1.35	<.1	.24	9.5	.7	.4	.03	.3	2.68	23.5	<.02	<1	22.4
ALFS-004589	.31	<.1	.23	7.5	1.2	.2	.11	3.3	11.18	25.4	.02	2	10.2
ALFS-004287	1.05	.1	.18	6.8	1.3	.2	.04	3.7	2.88	47.3	.02	<1	55.6
ALFS-004293	1.16	<.1	.33	9.3	.5	.2	.04	1.9	1.55	29.7	<.02	<1	18.3
ALFS-004593	1.63	.1	.51	8.4	.7	.4	.03	1.3	4.56	58.2	<.02	<1	40.3
RE ALFS-004593	1.64	.1	.44	8.6	.6	.6	.05	1.1	4.59	59.0	.02	<1	40.4
ALFS-004587	.74	.1	.24	8.8	.9	.3	.13	4.3	13.77	31.9	.04	1	19.7
ALFS-004584	1.65	.1	.17	8.3	1.3	.3	.02	7.9	5.89	40.5	.02	<1	62.9
ALFS-004296	.24	.1	.04	6.4	.9	.1	.04	5.4	6.53	51.3	<.02	1	32.9
ALFS-004606	1.42	.1	.48	7.5	1.1	.4	.02	4.5	5.56	55.2	.02	<1	44.8
ALFS-004291	.48	<.1	.31	2.4	.2	.2	.05	.7	1.03	7.6	<.02	<1	3.7
ALFS-004294	.45	.1	.26	5.7	1.2	.2	<.01	3.7	9.47	63.0	.02	1	30.3
ALFS-004286	2.36	<.1	.33	7.8	.7	.3	.02	1.3	1.84	41.3	<.02	<1	20.6
ALFS-004592	1.49	.1	.09	6.3	2.4	.3	<.01	7.5	6.76	103.0	.04	<1	74.8
ALFS-004297	.31	.1	.08	2.8	1.3	.2	.01	7.0	14.74	95.1	<.02	<1	57.8
ALFS-004602	2.64	<.1	.32	8.1	1.2	.4	.01	2.2	3.48	15.8	.02	1	23.6
ALFS-004284	.51	<.1	.18	3.8	.3	.2	.03	.7	1.03	7.4	<.02	<1	2.8
ALFS-004596	1.49	.1	.34	7.0	.9	.5	.01	2.7	3.93	40.7	.02	<1	41.2
ALFS-004598	1.61	.1	.22	8.7	1.0	.3	.02	4.8	5.09	25.4	.02	<1	59.6
ALFS-004608	1.15	.1	.39	8.1	1.5	.4	<.01	10.7	4.97	60.4	.02	<1	52.0
ALFS-004583	1.13	.1	.42	8.1	.9	.5	.04	.6	4.85	53.7	.02	<1	36.7
ALFS-004295	.53	.1	.23	5.6	1.4	.2	.01	7.5	13.64	87.4	.02	4	45.0
ALFS-004597	1.64	.1	.22	9.6	.8	.5	.01	1.7	3.91	18.4	<.02	1	40.9
ALFS-004585	1.01	.1	.21	10.7	.6	.5	.03	.4	3.48	50.8	<.02	<1	14.7
ALFS-004603	1.99	.1	.29	8.5	.8	.7	.04	.9	2.57	15.2	.02	<1	33.1
ALFS-004298	.40	.1	.09	5.8	1.2	.1	.01	4.6	16.42	77.1	<.02	4	43.0
ALFS-004607	1.33	.1	.27	7.3	1.2	.3	.02	6.4	5.16	54.7	.02	<1	47.6
ALFS-004283	1.30	.1	.09	6.8	1.2	.3	.02	3.3	5.06	63.8	.02	<1	54.9
ALFS-004292	.91	<.1	.18	6.2	.5	.3	.03	.9	1.51	28.4	<.02	<1	16.7
STANDARD DS2	2.55	.1	2.12	14.6	3.2	26.9	.03	3.9	8.31	31.0	5.66	2	14.1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Hg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
ALFS-004599 PULP	1.17	34.57	8.70	55.9	53	15.5	15.8	500	4.29	2.5	.7	.7	2.8	52.6	.10	.16	.21	186	.51	.047	13.7	50.0	.59	92.1	.476	2	4.37	.147	.07	.2	.14	36	.2	.03	11.5
ALFS-004288	.69	32.98	34.08	144.6	165	28.9	16.1	605	3.29	16.2	4.3	1.1	4.7	49.7	.28	.70	.49	17	.38	.098	15.6	26.3	.50	98.1	.004	2	1.96	.016	.17	2.2	.07	42	.5	.03	5.0
ALFS-004591	.63	18.29	10.28	86.6	38	29.3	15.7	832	4.06	2.4	.7	<.2	5.4	12.0	.08	.18	.58	20	.03	.056	40.5	31.8	.67	43.8	.008	2	1.84	.006	.15	.6	.04	32	.4	.08	7.2
ALFS-004594	.41	17.20	21.07	83.4	27	32.8	19.1	545	3.68	1.3	.9	2.1	5.8	6.3	.14	.44	.45	25	.01	.035	17.7	24.3	.55	35.6	.011	1	1.08	.006	.07	.3	.03	22	.3	.04	4.0
ALFS-004588	.91	19.84	22.22	85.6	68	23.2	10.8	692	3.24	6.5	.8	.5	4.2	5.4	.19	.51	.38	18	.05	.087	31.7	25.6	.52	62.9	.004	1	1.44	.007	.16	1.7	.07	29	.4	.02	5.6
ALFS-004290	.27	3.78	3.89	9.6	123	1.7	2.9	157	.46	.7	.6	1.9	.1	23.5	.05	.06	.18	10	.15	.024	2.3	3.4	.04	28.7	.019	<1	.47	.059	.04	.8	.02	25	.3	.07	2.1
ALFS-004601	.48	15.02	10.01	72.8	43	26.7	14.1	588	3.52	.5	.7	3.1	5.0	6.7	.17	.20	.37	20	.03	.062	10.8	28.0	.53	43.4	.004	1	1.59	.015	.10	.4	.05	24	.4	.03	7.1
ALFS-004609	.64	27.52	39.99	106.4	20	42.8	22.6	876	4.56	8.7	.9	2.7	11.2	7.1	.14	.54	.48	20	.03	.035	28.9	35.4	.92	52.9	.005	1	2.55	.008	.14	.5	.04	12	.3	.02	7.1
ALFS-004590	.87	26.69	37.78	82.8	35	26.3	24.1	1421	3.35	8.1	.8	.3	3.6	10.2	.20	.86	.35	20	.25	.062	25.6	29.4	.56	92.2	.007	2	1.46	.005	.23	1.5	.12	40	.5	.03	4.6
AL-004600	.32	13.32	9.09	62.3	29	23.8	12.1	605	3.35	<.1	.7	.4	4.8	6.3	.18	.20	.31	21	.02	.051	10.8	23.9	.43	48.1	.004	<1	1.40	.015	.09	.2	.05	19	.3	.02	7.3
ALFS-004605	.53	31.69	22.50	109.6	41	39.5	20.5	958	3.55	.2	.9	.5	7.7	8.2	.09	.11	.43	18	.02	.049	14.9	29.0	.88	308.3	.001	1	2.03	.012	.14	.5	.04	53	.4	.02	6.1
GSMS-004404	.70	21.02	7.44	25.7	270	11.4	5.1	269	1.30	16.7	13.4	1.6	1.2	168.0	.57	.43	.31	10	2.45	.091	8.8	14.1	.19	149.6	.015	1	1.29	.025	.08	2.4	.08	71	1.2	.02	3.5
GSMS-004257	1.35	23.06	26.87	81.1	61	35.5	14.9	695	3.44	313.1	.7	3.9	6.5	14.4	.09	.72	.32	15	.16	.036	20.8	35.6	.79	44.9	.002	<1	1.71	.010	.13	2.9	.02	6	.2	.06	4.8
GSMS-004364	1.43	12.42	17.38	39.1	103	11.7	7.1	369	1.55	29.2	.4	.8	.9	9.8	.25	.40	.16	9	.10	.050	11.1	15.7	.04	35.1	.006	<1	.43	.014	.08	7.4	.02	12	.3	.04	2.2
GSMS-004384	.96	42.61	41.37	82.3	378	36.1	14.4	477	3.59	144.8	1.7	11.0	6.9	57.6	.34	1.07	.59	17	.82	.058	14.3	23.0	.45	135.6	.003	1	1.88	.018	.17	1.6	.08	43	.7	.08	5.2
GSMS-004228	2.44	156.40	9.40	58.3	136	29.3	17.3	388	7.08	433.4	1.1	79.8	7.5	53.9	.11	.72	8.23	66	.04	.093	22.2	52.1	1.03	195.3	.117	<1	2.80	.031	.62	1.5	.41	35	1.3	.56	8.7
GSMS-004259	1.69	11.81	14.32	34.3	143	16.9	5.3	169	2.24	13.4	.6	1.8	5.8	5.3	.03	.36	.37	13	.01	.048	17.7	26.3	.30	36.5	.002	<1	1.08	.010	.10	4.7	.05	19	.4	.06	4.8
GSMS-004408	.76	28.37	25.83	73.3	165	32.2	16.7	784	3.40	42.7	2.1	2.8	6.1	55.2	.29	.52	.57	20	.60	.058	16.4	30.0	.70	109.9	.004	1	1.90	.012	.17	1.8	.07	34	.5	.05	5.7
GSMS-004363	2.24	13.28	19.51	37.8	210	11.0	5.6	215	1.78	10.6	.4	1.7	.8	7.4	.17	.54	.21	14	.03	.031	15.3	19.4	.10	46.3	.010	<1	.55	.020	.09	6.0	.03	23	.2	.04	2.9
GSMS-004357	1.13	8.39	7.23	20.7	95	6.3	3.2	234	.98	1.0	.3	<.2	.1	7.3	.05	.08	.06	6	.04	.036	3.7	14.2	.02	29.3	.005	<1	.32	.034	.04	5.9	<.02	14	.2	<.02	1.3
GSMS-004238	.53	48.64	21.81	131.8	80	59.9	22.9	619	5.22	11.6	1.9	1.0	13.8	15.2	.05	.23	.57	27	.12	.050	19.1	54.5	1.41	47.4	.002	<1	3.61	.024	.21	.2	.02	5	.2	.07	10.2
GSMS-004372	2.38	12.81	19.01	31.4	120	8.3	7.2	1378	1.99	46.4	.8	3.6	.4	11.9	.43	.30	.44	12	.07	.040	13.0	17.9	.07	45.4	.005	<1	.41	.020	.07	6.8	.05	17	.2	.21	2.4
RE GSMS-004372	2.21	12.25	18.57	29.5	112	7.9	6.7	1374	1.98	43.1	.8	1.4	.5	11.7	.43	.32	.19	11	.06	.038	12.8	18.6	.06	44.6	.005	1	.40	.019	.06	6.5	.03	16	.3	.07	2.2
GSMS-004403	.98	10.98	13.11	45.1	24	18.6	6.8	326	2.21	19.1	.6	7.6	6.2	7.0	.05	.35	.57	15	.04	.029	24.4	23.0	.40	42.6	.017	1	1.12	.013	.12	3.8	.08	8	.2	.02	4.5
GSMS-004355	2.40	13.16	13.44	46.0	139	12.4	9.1	1756	1.80	41.2	.4	3.0	.4	8.0	.22	.48	.16	10	.04	.042	12.1	19.9	.02	68.9	.005	1	.33	.012	.07	5.5	.04	10	.1	.03	1.7
GSMS-004237	1.02	22.99	23.12	80.5	45	34.3	18.4	1087	4.81	22.3	1.1	1.5	5.7	7.0	.05	.65	.56	23	.02	.087	15.9	36.3	.80	40.2	.003	<1	2.23	.020	.08	1.8	.05	19	.4	.10	8.8
GSMS-004258	1.33	17.83	14.18	54.8	25	24.1	7.4	261	2.86	13.6	.6	1.6	7.6	7.1	.02	.58	.30	12	.04	.041	27.6	24.0	.53	35.8	.002	1	1.41	.008	.12	2.7	.04	5	.2	.04	4.7
GSMS-004388	.89	24.92	20.23	73.1	73	26.4	11.4	493	2.81	32.2	2.2	3.2	6.0	72.5	.14	.51	.42	14	1.22	.046	18.6	27.1	.45	77.5	.007	2	1.44	.017	.13	4.4	.06	37	.7	.03	4.1
GSMS-004366 PULP	1.16	35.71	9.01	58.0	46	15.9	16.1	508	4.29	2.7	.8	.8	3.1	55.7	.09	.13	.18	184	.55	.048	14.2	47.0	.59	93.0	.480	1	4.42	.159	.07	<.2	.15	29	.2	.03	11.9
GSMS-004226	1.39	78.53	7.45	63.2	39	34.2	21.6	554	4.85	4.0	1.5	14.7	9.4	23.1	.08	.47	7.11	37	.04	.072	37.3	42.8	.87	148.7	.094	1	2.67	.020	.71	1.4	.45	36	.7	.14	7.8
GSMS-004243	1.04	34.50	16.73	109.4	42	42.5	20.9	1088	4.37	10.2	2.8	1.0	6.0	15.2	.14	.44	.53	20	.34	.107	11.4	38.0	1.01	64.5	.004	1	2.54	.021	.10	1.1	.04	8	.3	.08	7.6
GSMS-004356	.62	2.82	2.46	9.6	353	2.0	1.5	838	.39	3.8	.2	<.2	<.1	11.9	.09	.04	.07	8	.05	.032	1.1	8.9	.03	51.2	.014	<1	.42	.070	.05	1.3	.03	41	.2	<.02	1.9
GSMS-004254	1.17	10.80	9.58	21.8	388	8.1	3.3	181	1.29	10.0	.4	.6	.4	5.2	.10	.26	.16	11	.01	.045	10.6	15.3	.07	35.2	.004	1	.46	.025	.07	5.2	.03	17	.2	.03	2.4
GSMS-004392	1.94	14.38	18.57	48.0	35	19.6	8.4	507	2.60	40.8	.5	2.0	6.2	30.7	.15	.40	.43	21	.35	.026	22.6	28.8	.38	69.7	.006	1	1.23	.009	.10	4.4	.06	12	.2	.04	4.5
STANDARD DS2	13.71	129.69	31.86	164.7	252	37.0	12.7	817	3.15	62.0	21.3	198.5	3.3	29.9	11.45	9.37	11.22	81	.54	.086	17.6	167.0	.60	144.4	.114	2	1.76	.033	.16	7.1	1.84	261	2.5	1.79	6.1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
ALFS-004599 PULP	1.19	.1	.65	5.0	9.7	2.3	<.01	48.7	16.79	32.0	.06	1	11.5
ALFS-004288	6.57	.1	.63	11.8	1.5	1.1	.06	6.3	10.85	26.2	.02	2	53.5
ALFS-004591	.99	.1	.39	7.5	1.1	.5	.01	4.9	3.82	70.0	.02	2	55.6
ALFS-004594	1.31	.1	.33	5.3	.8	.6	.01	1.8	3.23	37.0	<.02	2	34.9
ALFS-004588	1.25	.1	.20	11.1	.8	.4	.05	6.8	3.89	56.1	.02	1	29.2
ALFS-004290	.24	<.1	.36	1.2	.2	.3	.03	.6	.82	4.3	<.02	1	1.3
ALFS-004601	1.82	.1	.31	7.2	.9	.4	.01	4.8	4.30	24.0	<.02	<1	42.0
ALFS-004609	1.27	.1	.15	6.9	1.7	.2	<.01	10.3	6.02	59.3	.02	1	75.8
ALFS-004590	1.78	.1	.25	14.2	1.6	.3	.03	3.0	5.42	49.6	.02	2	23.1
ALFS-004600	2.03	.1	.31	7.6	.9	.3	.01	2.8	4.63	24.8	<.02	1	33.8
ALFS-004605	1.37	.1	.11	6.9	1.1	.2	.04	8.1	5.22	31.6	<.02	2	63.1
GSMS-004404	1.07	.1	1.93	6.9	.7	2.0	.16	6.4	5.03	13.6	<.02	2	14.2
GSMS-004257	.36	.1	.10	4.5	1.3	.2	<.01	2.9	2.36	33.7	.02	<1	53.6
GSMS-004364	.65	<.1	.25	5.1	.3	.3	.01	.4	1.14	20.3	<.02	1	3.7
GSMS-004384	1.75	.1	1.02	12.3	2.4	.5	.04	6.0	7.87	25.0	.04	2	44.4
GSMS-004228	8.48	.1	2.99	58.9	4.6	3.3	.24	4.7	4.66	39.8	.06	2	32.2
GSMS-004259	.81	<.1	.25	7.2	.7	.3	.01	3.3	1.15	32.0	<.02	1	23.1
GSMS-004408	.76	.1	.77	10.1	1.9	.4	.04	4.6	5.02	28.7	.03	2	46.6
GSMS-004363	.72	<.1	.45	4.9	.4	.3	.02	.2	.83	24.1	<.02	1	6.6
GSMS-004357	.33	<.1	.05	1.8	.1	.2	.01	.1	.68	7.0	<.02	2	.6
GSMS-004238	2.24	.1	.07	4.8	2.6	.3	<.01	11.4	3.77	41.1	.03	2	105.6
GSMS-004372	.62	<.1	.28	3.5	.4	.3	.01	.3	1.48	24.2	<.02	<1	3.2
RE GSMS-004372	.59	<.1	.20	3.3	.3	.5	.01	.3	1.43	23.0	<.02	<1	3.1
GSMS-004403	1.43	.1	1.17	12.3	1.2	.9	<.01	1.5	3.06	45.3	.02	1	33.4
GSMS-004355	.68	<.1	.10	4.5	.2	.4	.01	.2	1.01	21.6	<.02	1	1.2
GSMS-004237	1.42	.1	.38	5.6	1.3	.4	.02	4.9	1.72	29.9	.03	<1	60.4
GSMS-004258	.42	.1	.08	6.5	1.0	.3	<.01	3.4	2.28	49.7	<.02	<1	40.9
GSMS-004388	.91	.1	1.18	8.7	1.7	.7	.07	4.8	6.18	30.8	.02	1	39.4
GSMS-004366 PULP	1.21	.2	.64	5.3	10.6	1.5	<.01	51.9	17.16	33.4	.06	3	12.1
GSMS-004226	8.86	.1	3.54	68.8	2.5	1.4	.08	5.1	6.04	69.1	.03	<1	31.8
GSMS-004243	2.55	.1	.37	6.5	2.3	.6	.06	11.6	2.73	20.3	.02	1	72.9
GSMS-004356	.24	<.1	.12	1.6	.1	.2	.02	.3	.29	2.1	<.02	<1	.5
GSMS-004254	.66	<.1	.19	4.2	.2	.4	.01	.3	.79	18.5	<.02	<1	4.0
GSMS-004392	.83	.1	.85	8.5	1.1	.6	.01	2.0	2.64	39.6	.02	2	29.7
STANDARD DS2	2.68	.1	2.12	13.5	3.1	27.0	.02	4.2	8.05	30.6	5.39	2	13.3

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
GSMS-004387	2.41	34.91	22.29	71.6	219	27.3	11.5	525	2.61	45.3	3.2	7.4	4.0	112.3	.51	.89	.66	10	1.97	.075	15.5	23.1	.36	93.2	.004	4	1.47	.013	.13	2.6	.06	71	.7	.04	3.6
GSMS-004359	1.76	21.02	19.06	63.4	93	25.4	8.7	395	4.20	22.4	.8	1.4	6.8	5.5	.07	.51	.55	25	.02	.066	27.9	26.9	.46	44.2	.007	1	1.56	.006	.08	1.1	.04	12	.5	.10	7.6
GSMS-004263	2.69	23.91	27.13	72.4	37	29.1	17.3	581	3.39	15.6	1.3	3.6	7.3	27.7	.08	.67	.49	16	.31	.048	15.7	29.3	.55	74.2	.004	1	1.64	.006	.11	3.5	.05	11	.3	.06	5.2
GSMS-004255	3.25	30.11	44.72	47.5	229	19.6	7.8	246	2.27	105.0	1.4	4.1	4.3	4.9	.10	.73	.43	12	.01	.051	10.5	18.6	.11	50.2	.002	1	.84	.010	.10	3.0	.06	11	.2	.05	3.6
GSMS-004345	3.73	17.43	17.62	63.5	53	23.4	9.9	382	3.41	60.9	.5	4.6	6.7	6.6	.11	.57	.40	17	.01	.023	34.4	31.0	.39	38.9	.004	1	1.26	.011	.09	5.6	.04	9	.2	.06	5.6
GSMS-004225	1.14	64.03	9.77	78.6	32	45.7	42.7	835	4.62	70.0	1.8	9.6	10.0	15.5	.19	.52	2.18	33	.03	.039	43.3	36.2	.96	118.1	.072	1	2.47	.011	.61	.4	.48	<5	.6	.06	7.3
GSMS-004231	2.88	99.42	14.21	93.4	72	65.8	55.8	1114	5.13	30.2	1.5	202.0	7.7	15.7	.17	.46	20.17	60	.03	.042	34.8	48.7	1.03	138.6	.105	1	2.69	.012	.47	3.5	.40	11	.4	3.07	9.8
GSMS-004239	.96	43.61	13.80	113.4	22	52.0	20.7	406	4.68	4.3	1.0	.9	10.7	7.7	.05	.10	.57	20	.12	.055	17.9	44.8	1.23	26.4	.001	<1	2.90	.017	.06	.5	.03	12	.2	.12	8.8
GSMS-004227	3.28	112.06	13.56	82.3	47	56.0	53.4	716	5.01	8.6	1.8	24.4	6.0	36.6	.20	.57	3.68	58	.10	.083	23.8	55.8	1.14	127.6	.097	1	3.61	.018	.35	1.4	.31	51	1.1	.20	9.4
GSMS-004240	1.19	25.89	15.54	98.8	41	41.8	15.8	662	4.86	13.2	.8	1.8	7.4	5.5	.07	.42	.63	22	.01	.046	16.1	38.1	1.01	24.2	.003	<1	2.43	.017	.07	.6	.03	11	.4	.12	9.1
GSMS-004251	2.51	33.13	28.23	103.6	226	41.8	15.5	432	4.11	135.8	1.1	7.1	9.4	6.6	.12	.57	.49	14	.08	.040	27.4	30.7	.67	28.5	.002	1	1.62	.009	.11	3.9	.03	5	.3	.08	5.1
GSMS-004229	1.75	61.58	7.62	62.3	37	38.8	18.3	559	3.52	3.3	.9	226.0	6.2	23.5	.12	.25	17.85	75	.08	.028	26.2	65.2	1.28	104.0	.123	1	3.01	.016	.60	.7	.40	12	.5	1.08	10.7
GSMS-004253	4.49	19.12	11.98	48.1	67	18.6	7.2	439	2.58	13.8	.5	2.0	4.1	5.1	.04	.32	.47	12	.02	.046	19.8	27.0	.27	26.2	.003	1	.87	.014	.07	7.5	.03	7	.2	.09	4.0
GSMS-004230	1.73	50.03	6.70	56.4	50	47.1	31.9	649	4.03	6.3	1.0	233.8	7.9	14.1	.09	.28	12.35	75	.09	.034	27.9	59.1	1.49	111.5	.159	1	2.99	.023	.79	3.5	.49	28	.5	1.66	9.9
GSMS-004244	2.40	26.10	10.59	42.6	270	17.1	6.6	286	1.88	3.7	18.4	1.8	1.9	28.1	.10	.15	.52	10	1.14	.063	8.2	21.8	.35	42.9	.011	1	1.46	.046	.07	3.4	.06	43	1.4	.20	4.4
GSMS-004232	4.13	216.20	28.82	80.7	126	66.1	38.3	613	4.49	44.6	4.2	93.1	7.5	28.5	.22	1.76	41.46	30	.15	.021	33.7	20.8	.29	54.7	.007	4	1.11	.004	.18	6.2	.28	136	.4	6.28	4.0
GSMS-004261	2.69	21.45	18.83	73.6	32	30.2	16.4	566	3.33	14.1	.7	2.1	9.3	19.9	.04	.46	.71	14	.14	.019	26.8	31.0	.65	52.1	.002	1	1.67	.009	.11	3.9	.03	10	.3	.12	5.2
GSMS-004233 PULP	1.09	31.30	7.81	50.9	48	14.1	14.5	478	4.13	2.0	.6	.9	2.7	51.5	.08	.11	.27	173	.51	.041	12.7	41.3	.56	86.6	.441	1	4.23	.146	.06	<2	.13	29	.3	.06	11.0
GSMS-004352	4.15	18.02	20.69	38.2	92	13.6	8.7	459	2.26	11.5	.5	2.2	1.6	11.2	.12	.48	.57	13	.05	.046	12.4	21.8	.10	56.6	.004	1	.68	.016	.10	3.5	.04	16	.3	.10	3.4
RE GSMS-004352	4.28	18.63	21.46	39.9	91	13.3	8.8	474	2.34	11.9	.5	1.5	1.8	12.2	.13	.49	.56	14	.05	.047	15.9	21.4	.10	60.9	.004	1	.74	.020	.12	3.5	.04	15	.3	.13	3.7
GSMS-004234	1.14	91.77	6.20	61.0	45	63.1	40.9	857	4.35	3.1	1.6	211.4	11.6	35.5	.13	.28	17.77	54	.13	.033	36.7	50.5	1.13	162.5	.126	4	2.41	.027	.95	1.9	.69	<5	.1	1.52	7.4
GSMS-004371	1.88	39.51	40.59	61.1	403	37.0	14.2	662	3.20	109.3	2.5	22.3	4.9	46.1	.15	1.17	.69	12	.74	.086	11.3	18.1	.45	107.0	.003	1	1.59	.012	.12	2.0	.06	46	1.2	.11	4.0
GSMS-004241	1.10	31.98	15.64	111.4	33	47.8	16.6	655	4.94	11.1	1.0	1.5	8.0	6.0	.08	.35	.49	21	.02	.033	19.5	41.9	1.16	28.6	.003	1	2.66	.020	.09	.9	.03	11	.3	.07	8.6
GSMS-004365	2.80	14.92	13.58	50.3	45	16.1	6.0	239	2.47	27.8	.5	4.6	5.3	7.4	.15	.58	.32	15	.03	.027	27.5	15.2	.15	41.9	.007	1	.71	.009	.09	2.6	.04	12	.3	.08	4.1
GSMS-004235	1.53	26.72	16.40	105.5	47	47.1	19.4	744	4.97	12.5	.9	.7	7.1	8.0	.09	.31	.48	21	.04	.030	33.5	36.9	1.14	54.2	.002	1	2.71	.025	.11	1.3	.04	10	.3	.08	8.6
GSMS-004351	3.73	15.76	29.40	35.4	199	11.3	19.3	1639	1.69	18.4	.4	.6	.5	8.3	.24	.41	.26	14	.02	.037	13.6	18.5	.07	84.7	.011	1	.68	.029	.07	2.9	.05	21	.4	.05	3.3
GSMS-004242	2.06	24.71	18.86	77.5	49	30.2	16.3	1151	4.06	8.6	1.1	.4	5.6	7.5	.12	.33	.50	22	.03	.101	12.2	33.3	.69	46.8	.003	1	1.97	.021	.08	2.1	.05	19	.4	.06	8.1
GSMS-004358	1.79	22.85	17.75	46.4	378	17.7	7.0	214	2.30	8.9	.7	1.0	3.2	7.9	.30	.26	.33	15	.02	.044	22.8	12.0	.24	52.0	.006	1	1.01	.019	.11	1.4	.04	23	.3	.08	5.2
GSMS-004262	3.29	14.69	17.34	70.6	86	25.1	12.9	342	3.02	14.2	3.2	2.7	6.3	98.2	.05	.38	.30	12	.58	.058	13.5	30.6	.52	66.0	.003	2	1.55	.016	.12	5.3	.04	44	1.3	.02	4.3
GSMS-004236	3.20	13.48	12.27	52.1	51	20.6	8.8	545	2.74	11.5	.6	.4	2.8	4.7	.04	.35	.35	17	.02	.062	20.5	30.2	.39	33.3	.004	1	1.15	.015	.07	2.4	.04	19	.4	.04	5.4
GSMS-004353	1.73	42.29	14.30	65.7	61	14.6	5.3	193	4.79	19.6	.7	1.2	8.6	10.5	.06	.77	.61	13	.03	.037	26.8	20.8	.41	36.3	.002	1	1.22	.013	.12	1.1	.04	24	.5	.19	5.4
GSMS-004250	2.86	22.76	14.57	59.0	208	22.9	8.8	613	3.32	20.2	.6	.9	2.5	7.4	.05	.62	.72	17	.04	.069	18.4	25.1	.40	36.7	.006	1	1.35	.023	.08	2.1	.04	20	.3	.13	5.7
GSMS-004361	1.29	23.70	15.06	59.2	218	14.3	2.3	406	3.40	20.9	.5	3.1	4.2	15.9	.11	2.60	.43	13	.07	.054	22.3	14.7	.29	86.9	.005	1	1.07	.022	.14	1.3	.05	22	.3	.09	4.8
GSMS-004245	1.50	17.55	16.17	55.1	171	22.4	9.7	572	3.59	10.0	.8	.6	3.6	6.0	.05	.31	.47	26	.01	.083	19.8	22.4	.51	40.1	.005	<1	1.58	.018	.08	.8	.05	24	.3	.07	8.4
STANDARD DS2	14.29	128.81	31.70	164.5	255	37.4	13.2	831	3.19	61.4	20.4	204.7	3.4	30.0	11.63	9.70	11.12	82	.55	.086	17.5	171.3	.61	144.8	.114	2	1.80	.033	.17	7.5	1.89	249	2.7	1.84	6.5

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
GSMS-004387	.71	<.1	.88	8.5	2.1	2.0	.13	5.9	14.29	22.7	.03	3	29.6
GSMS-004359	.83	.1	.76	5.0	.9	1.0	<.01	2.7	1.44	43.4	.02	<1	35.5
GSMS-004263	.51	.1	.36	7.0	1.3	.6	.02	3.9	3.97	30.1	.02	2	41.8
GSMS-004255	2.81	<.1	.23	8.4	.7	.7	.01	3.2	1.65	19.8	.02	<1	10.5
GSMS-004345	1.00	.1	.45	6.8	1.1	.5	<.01	2.1	1.81	63.2	.02	2	33.4
GSMS-004225	9.25	.1	1.22	61.6	2.3	1.4	.05	2.9	6.54	87.9	.03	<1	53.9
GSMS-004231	8.61	.1	1.90	58.4	4.0	2.1	.03	2.5	8.79	84.9	.13	1	44.4
GSMS-004239	1.91	.1	.06	4.1	1.8	.5	<.01	4.7	3.18	43.2	.02	<1	88.4
GSMS-004227	7.48	.1	3.46	41.5	3.7	1.5	.11	4.3	7.43	47.6	.03	2	40.4
GSMS-004240	1.09	.1	.28	4.7	1.5	.3	.01	9.8	1.75	31.1	.02	<1	73.9
GSMS-004251	.91	.1	.08	4.8	1.3	.3	<.01	3.5	2.06	46.6	.02	<1	54.9
GSMS-004229	9.70	.1	1.54	92.5	4.6	7.1	.02	2.8	6.72	49.2	.03	2	34.3
GSMS-004253	.39	.1	.18	4.8	.7	.3	.01	1.5	1.25	34.7	<.02	<1	20.1
GSMS-004230	9.00	.1	2.34	88.1	5.2	2.7	.03	4.6	6.27	57.2	.04	1	47.4
GSMS-004244	1.87	<.1	.86	4.6	1.6	2.0	.12	6.6	7.82	13.4	<.02	1	30.8
GSMS-004232	5.61	.1	.35	22.3	6.4	1.6	.01	1.4	10.81	57.7	.14	1	12.5
GSMS-004261	.40	.1	.14	5.8	1.3	.4	<.01	4.3	3.23	48.7	.02	1	47.1
GSMS-004233 PULP	1.01	.2	.65	4.9	9.2	1.6	<.01	45.5	15.77	29.9	.06	2	10.3
GSMS-004352	.91	<.1	.34	7.6	.5	.6	.01	1.1	.95	24.9	<.02	1	10.0
RE GSMS-004352	.91	<.1	.33	7.8	.5	.5	.01	1.0	1.02	27.6	<.02	1	9.4
GSMS-004234	11.90	.2	.45	106.3	5.2	2.1	.03	10.2	9.61	69.7	.04	1	37.4
GSMS-004371	2.19	<.1	.40	8.5	1.6	.5	.10	5.9	7.56	17.0	.02	3	38.4
GSMS-004241	1.05	.1	.19	5.1	1.7	.4	<.01	8.6	2.22	37.5	.02	2	80.1
GSMS-004365	.91	.1	.50	7.6	.6	.4	<.01	.9	1.32	48.1	<.02	2	13.1
GSMS-004235	1.20	.1	.22	6.9	1.6	.4	<.01	3.9	2.44	57.9	.02	1	83.6
GSMS-004351	1.21	.1	.37	6.6	.4	.6	.01	.4	1.10	25.2	<.02	2	5.1
GSMS-004242	1.45	.1	.39	6.4	1.2	.4	.03	8.1	1.81	23.3	.02	<1	54.0
GSMS-004358	1.45	.1	.38	6.9	.5	.3	.01	1.3	1.19	36.9	<.02	1	20.6
GSMS-004262	.39	<.1	.26	6.7	1.5	.5	.09	6.6	5.66	22.8	.02	2	43.1
GSMS-004236	1.21	<.1	.30	5.7	.6	.4	.03	2.4	1.19	33.8	<.02	1	29.4
GSMS-004353	1.53	.1	.12	7.1	.8	.2	.01	2.5	1.05	43.4	.02	<1	37.1
GSMS-004250	.59	.1	.36	5.2	.7	.4	.02	2.7	1.18	30.1	.02	<1	31.4
GSMS-004361	1.60	.1	.32	9.6	.7	.3	.01	2.0	.80	34.8	<.02	<1	21.0
GSMS-004245	1.10	.1	.50	6.5	.8	.6	.02	3.3	1.49	34.6	.02	2	36.9
STANDARD DS2	2.58	.1	2.17	14.6	3.3	27.3	.03	4.2	8.37	31.7	5.57	3	13.3

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Si %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
GSMS-004264	.96	12.02	15.20	79.8	51	22.2	8.0	166	3.01	16.7	1.6	1.5	4.7	15.5	.08	.54	.74	15	.11	.062	10.8	24.2	.50	85.4	.002	1	1.57	.008	.11	.6	.05	11	.3	.02	5.6
GSMS-004341	.91	32.41	43.83	108.4	188	34.3	16.0	528	3.78	96.3	.9	12.4	6.6	12.3	.20	2.01	.50	14	.13	.066	20.2	29.3	.47	34.9	.002	<1	1.39	.012	.10	.5	.03	7	.3	.08	5.0
GSMS-004256	1.80	11.14	10.29	37.2	41	13.8	5.4	309	2.06	20.6	.4	1.6	3.2	2.5	.04	.31	.24	11	.01	.030	14.4	23.1	.24	22.2	.003	<1	.75	.005	.04	2.7	.02	7	.1	.04	3.1
GSMS-004246	1.32	21.55	14.19	79.2	63	32.4	12.5	489	4.65	15.3	.7	1.2	5.9	4.6	.05	.52	.49	24	.02	.051	22.0	36.5	.74	27.7	.007	<1	1.98	.010	.05	.8	.03	11	.3	.07	8.2
GSMS-004373	2.77	8.56	19.97	66.4	47	12.8	8.3	412	2.07	41.9	.4	1.1	4.8	9.5	.79	.54	.32	15	.03	.042	20.1	17.0	.13	49.7	.009	<1	.58	.010	.08	4.6	.05	12	.2	.04	4.2
GSMS-004247	1.30	29.08	17.12	77.3	319	26.1	11.2	1871	3.25	43.2	.7	2.9	2.7	4.2	.10	.69	.43	14	.02	.062	12.6	25.0	.39	59.6	.005	<1	1.19	.009	.05	.9	.04	21	.3	.14	4.3
GSMS-004252	1.83	16.53	13.08	49.6	41	19.2	10.6	701	2.97	25.9	.5	1.7	3.5	2.6	.06	.43	.28	14	.01	.036	16.3	25.6	.34	26.2	.005	<1	.98	.006	.04	2.4	.02	8	.2	.07	4.3
GSMS-004337	1.63	22.48	19.24	61.9	57	23.3	9.5	273	2.79	81.9	.6	6.2	5.1	10.4	.07	.66	.27	11	.08	.025	18.6	26.5	.41	40.3	.003	<1	1.24	.007	.12	1.5	.03	7	.2	.04	3.8
GSMS-004374	2.69	8.26	12.51	32.6	83	8.8	4.2	148	1.60	32.1	.3	9.0	2.8	8.0	.26	.48	.27	16	.04	.028	21.3	18.0	.09	35.4	.014	<1	.48	.010	.06	4.2	.03	17	.3	.02	3.5
GSMS-004248	1.50	22.93	16.55	68.4	146	25.5	10.7	531	3.01	53.2	.6	2.7	3.4	6.2	.08	.52	.29	13	.04	.064	14.0	25.0	.43	32.4	.004	<1	1.15	.008	.06	1.1	.02	10	.3	.03	4.3
GSMS-004340	1.29	41.66	56.12	248.4	230	45.6	23.7	889	4.70	115.6	1.3	9.5	6.5	11.5	.41	2.14	.60	17	.08	.048	28.0	29.2	.44	34.4	.002	<1	1.32	.013	.08	1.4	.03	7	.3	.12	4.9
GSMS-004381	1.26	13.70	23.68	37.7	111	15.5	6.3	205	2.06	59.1	.4	2.6	3.1	12.7	.07	.43	.48	12	.11	.025	12.9	15.8	.20	42.3	.003	<1	.80	.007	.06	1.0	.05	9	.2	.24	3.2
GSMS-004249	1.89	20.42	16.34	79.1	107	26.3	10.4	374	3.04	85.4	.7	3.3	4.7	6.2	.10	.46	.30	12	.03	.026	11.5	27.1	.41	21.8	.002	<1	1.13	.005	.04	2.6	.02	8	.2	.08	3.5
GSMS-004342	1.98	17.36	20.17	56.6	147	22.9	9.8	556	2.81	61.6	.5	6.2	2.8	10.6	.12	.56	.35	15	.11	.038	16.8	23.3	.38	46.1	.006	<1	1.10	.007	.07	1.8	.03	16	.3	.07	4.4
GSMS-004375	1.71	19.87	21.42	64.0	74	23.1	8.2	249	2.74	110.2	.5	11.2	4.9	6.1	.15	.75	.35	12	.03	.030	20.4	20.3	.35	25.8	.002	<1	1.03	.005	.06	2.5	.02	10	.2	.06	3.9
RE GSMS-004375	1.67	19.86	21.43	64.9	73	22.9	7.9	247	2.76	108.0	.5	12.6	4.9	6.0	.14	.77	.34	12	.03	.030	20.4	24.5	.35	25.4	.002	<1	1.03	.005	.06	2.6	.02	7	.2	.07	3.8
GSMS-004260	1.13	25.80	20.62	79.0	29	31.3	15.8	492	3.31	16.2	.7	2.1	9.1	21.5	.05	.52	.30	16	.14	.020	25.0	30.2	.68	63.4	.003	<1	1.84	.007	.15	.9	.03	10	.2	.03	5.0
GSMS-004367	1.63	21.38	19.27	76.7	42	24.5	12.6	528	3.89	24.5	.7	2.0	9.0	7.6	.12	.69	.52	22	.01	.035	32.0	28.3	.44	58.1	.011	<1	1.53	.006	.16	1.9	.04	11	.3	.13	6.1
GSMS-004338	1.66	31.18	25.12	77.5	210	28.4	12.7	368	3.15	70.6	1.1	8.8	5.8	11.0	.26	.84	.42	14	.07	.046	18.1	25.0	.45	51.3	.003	<1	1.49	.013	.11	1.5	.04	17	.3	.08	4.9
GSMS-004382	2.26	9.31	13.14	27.0	50	10.3	4.3	132	1.58	42.6	.4	1.6	3.5	4.7	.09	.48	.25	14	.01	.016	20.0	19.0	.12	26.4	.007	<1	.60	.005	.05	3.2	.03	<5	.2	.04	3.0
GSMS-004343	1.25	31.39	22.77	81.1	168	33.2	11.7	352	3.60	55.2	.7	11.1	7.2	13.0	.08	.81	.36	16	.09	.033	27.1	31.1	.59	56.2	.002	<1	1.71	.009	.11	1.0	.04	15	.3	.08	5.3
GSMS-004391	2.00	12.66	16.73	40.7	20	15.8	7.1	264	3.12	48.0	.5	1.7	7.2	6.6	.05	.51	.42	19	.01	.023	29.7	22.5	.30	61.8	.005	<1	1.31	.005	.06	2.3	.05	12	.3	.04	4.8
GSMS-004339	1.40	31.70	22.70	73.5	180	28.9	10.9	318	3.38	50.3	1.1	8.6	5.8	9.9	.07	.75	.44	16	.04	.039	21.5	26.2	.50	44.5	.003	<1	1.50	.013	.08	1.2	.04	17	.3	.07	5.6
GSMS-004383	2.09	27.44	30.76	42.9	236	20.4	11.1	341	2.34	68.8	.9	8.6	3.9	21.4	.19	.66	.32	11	.21	.032	11.5	18.7	.19	65.9	.005	1	.92	.012	.07	2.4	.04	23	.4	.04	3.1
GSMS-004411	1.11	35.15	19.73	73.5	45	33.7	14.8	422	3.39	43.5	.7	3.1	7.4	38.6	.11	.84	.47	18	.58	.037	19.4	33.2	.75	88.5	.003	1	1.89	.008	.16	.7	.05	18	.4	.04	5.3
GSMS-004344	1.20	35.93	24.98	88.7	59	38.1	17.4	469	3.90	72.9	.9	9.9	8.6	14.5	.10	.83	.47	15	.07	.028	25.4	31.2	.66	60.3	.002	1	1.85	.009	.13	1.1	.04	10	.3	.08	5.2
GSMS-004360	1.00	24.66	16.41	62.6	132	16.3	2.2	538	3.44	27.5	.5	2.9	4.9	9.5	.11	4.61	.49	11	.04	.049	20.5	22.1	.34	67.7	.004	1	1.07	.011	.10	.5	.04	24	.5	.13	4.5
GSMS-004393	1.35	26.03	20.86	70.2	53	27.7	13.0	606	3.07	55.2	.6	7.3	8.7	28.5	.15	.71	.45	15	.30	.040	25.4	23.4	.49	63.3	.006	1	1.43	.007	.14	1.5	.07	18	.5	.06	4.1
GSMS-004346	.97	24.06	18.01	96.2	51	32.3	16.7	923	4.17	13.8	.6	1.2	7.8	6.7	.13	.40	.42	19	.04	.043	32.6	25.8	.72	40.0	.006	<1	1.77	.006	.11	.6	.03	9	.3	.08	6.9
GSMS-004354	1.11	29.74	12.88	92.1	34	31.9	16.4	473	3.75	73.5	.8	6.1	8.5	9.7	.10	.56	.40	14	.03	.035	20.2	24.7	.54	35.5	.003	1	1.40	.008	.10	1.1	.03	12	.2	.13	4.5
GSMS-004368	1.94	7.20	9.88	30.9	13	8.6	3.6	180	1.49	18.3	.2	1.7	1.3	7.1	.23	.41	.18	10	.05	.023	10.1	12.7	.07	31.0	.007	<1	.32	.003	.04	2.5	.02	7	.1	.04	1.9
GSMS-004399 PULP	1.08	32.24	7.19	52.7	49	14.6	14.4	484	4.12	2.7	.6	.7	2.5	53.3	.09	.12	.15	176	.52	.044	13.5	47.2	.57	90.8	.454	1	4.26	.158	.06	.2	.13	32	.2	.04	10.8
GSMS-004362	2.02	31.44	14.25	74.7	221	26.0	18.4	274	3.10	19.4	.8	1.3	4.1	11.2	.14	1.97	.43	11	.04	.042	18.5	17.4	.08	48.7	.003	1	.49	.007	.09	2.7	.03	15	.5	.14	2.6
GSMS-004347	1.00	22.03	27.21	57.2	230	21.9	6.2	238	2.71	33.1	.6	15.9	2.4	15.1	.22	.72	.40	18	.05	.067	27.5	21.3	.41	44.9	.008	<1	1.18	.007	.07	.7	.04	11	.2	.04	5.2
STANDARD DS2	14.21	129.51	29.81	165.3	248	37.1	13.0	827	3.17	61.4	20.4	201.1	3.1	30.1	11.30	10.16	10.44	82	.55	.087	17.8	168.8	.61	144.6	.115	2	1.79	.031	.17	7.1	1.80	247	2.4	1.89	6.2

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
GSMS-004264	.82	<.1	.23	9.9	1.0	1.2	.03	3.2	1.99	19.2	.02	1	40.5
GSMS-004341	1.17	<.1	.13	5.5	1.2	.3	<.01	1.8	1.95	31.0	.02	2	41.7
GSMS-004256	.34	<.1	.13	2.9	.6	.1	.01	.9	.92	23.6	<.02	1	17.9
GSMS-004246	.81	.1	.58	5.1	1.2	.3	<.01	2.0	1.59	39.8	.02	1	57.1
GSMS-004373	1.15	.1	.54	9.5	.6	.3	<.01	1.0	1.14	44.4	<.02	3	10.7
GSMS-004247	.51	.1	.20	3.9	.7	<.1	.02	2.3	1.20	20.2	<.02	2	29.8
GSMS-004252	.41	<.1	.29	4.2	.7	<.1	<.01	.9	1.08	27.2	<.02	1	24.8
GSMS-004337	.51	.1	.18	5.1	1.0	<.1	<.01	1.7	1.65	32.3	.02	2	39.4
GSMS-004374	.65	<.1	.56	5.0	.5	.3	<.01	.3	.94	38.9	<.02	2	5.5
GSMS-004248	.51	<.1	.17	4.3	.8	<.1	.01	1.8	1.29	22.8	<.02	1	33.6
GSMS-004340	1.16	.1	.11	5.9	1.4	<.1	<.01	1.7	2.21	47.5	.03	1	39.8
GSMS-004381	.63	<.1	.36	5.7	.7	<.1	.01	.7	1.21	23.1	<.02	1	18.8
GSMS-004249	.61	<.1	.14	3.8	1.0	.1	<.01	3.1	1.40	18.7	<.02	1	32.5
GSMS-004342	.72	<.1	.48	6.3	.8	.2	<.01	.7	1.90	29.4	.02	2	30.5
GSMS-004375	.49	<.1	.15	4.7	.8	.1	<.01	2.3	1.24	33.8	.02	1	26.2
RE GSMS-004375	.49	.1	.13	4.6	.8	<.1	<.01	2.2	1.22	33.0	.02	<1	26.0
GSMS-004260	.45	<.1	.18	5.4	1.3	.1	<.01	3.9	3.00	44.9	.02	3	52.8
GSMS-004367	1.05	.1	.56	7.2	1.0	.3	<.01	3.0	1.49	55.3	<.02	2	37.0
GSMS-004338	1.15	<.1	.28	7.1	1.1	.3	<.01	3.2	2.13	31.2	<.02	2	38.5
GSMS-004382	.36	.1	.43	3.7	.5	.3	<.01	.4	1.17	37.7	<.02	1	11.2
GSMS-004343	1.01	<.1	.18	6.2	1.3	.3	<.01	3.4	2.24	44.5	.02	1	46.0
GSMS-004391	.66	.1	.58	7.9	1.0	.4	<.01	4.1	1.76	51.9	.02	1	27.7
GSMS-004339	1.99	.1	.28	7.5	1.1	.3	<.01	2.9	1.78	36.2	.02	1	44.0
GSMS-004383	.83	<.1	.52	5.5	1.1	.3	.02	1.3	2.67	20.9	.02	1	22.7
GSMS-004411	.64	<.1	.47	8.8	1.8	.3	.02	4.9	4.79	31.6	.02	2	45.3
GSMS-004344	1.14	.1	.14	5.1	1.6	.3	<.01	4.1	2.77	42.2	.02	1	54.4
GSMS-004360	1.75	<.1	.20	8.3	.7	.3	.02	2.5	.65	29.2	.02	1	25.6
GSMS-004393	.98	.1	.71	9.1	1.8	.4	.01	3.3	4.95	41.8	.02	1	38.9
GSMS-004346	.88	.1	.34	4.7	1.0	.3	<.01	2.3	1.63	50.1	.02	1	54.3
GSMS-004354	1.38	<.1	.15	5.7	1.0	.1	<.01	2.0	1.47	31.8	.02	2	44.2
GSMS-004368	.38	<.1	.24	3.4	.3	.2	<.01	.2	.48	19.0	<.02	1	4.1
GSMS-004399 PULP	1.00	.1	.60	5.2	9.3	1.4	<.01	46.2	15.50	29.3	.06	1	10.9
GSMS-004362	.84	.1	.21	5.3	.8	.2	<.01	.6	1.43	34.9	.02	1	5.4
GSMS-004347	1.13	.1	.29	6.1	.5	.4	<.01	.5	1.31	44.9	<.02	1	32.3
STANDARD DS2	2.54	<.1	2.20	14.6	3.0	27.1	.02	3.7	8.17	30.7	5.62	2	13.8

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Hg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
GSMS-004369	2.15	14.66	9.53	43.1	29	12.3	7.1	261	1.76	13.1	.4	.7	2.4	6.8	.18	.67	.67	18	.03	.026	21.7	10.6	.12	61.3	.012	2	.62	.006	.07	3.0	.02	6	.3	.09	3.7
GSMS-004394	1.97	23.33	26.62	67.0	77	24.7	14.0	511	2.91	35.7	.6	1.9	8.1	24.0	.22	.62	.88	23	.32	.040	21.9	29.7	.61	93.3	.011	2	1.88	.009	.30	1.6	.08	6	.3	.04	5.0
GSMS-004348	1.53	46.88	32.40	94.2	66	34.7	20.4	414	4.18	61.9	.9	10.6	9.0	18.2	.08	2.93	.66	16	.04	.054	34.7	20.4	.18	52.2	.001	1	.84	.008	.12	1.8	.04	11	.4	.13	3.4
GSMS-004401	1.32	25.03	61.01	75.8	121	26.6	15.6	550	2.99	94.0	1.4	4.4	9.4	30.0	.20	.63	.92	22	.28	.048	26.3	23.0	.62	90.9	.019	1	1.87	.009	.29	1.4	.12	8	.4	.03	5.3
GSMS-004395	1.00	29.69	19.57	56.4	91	23.5	11.6	336	2.62	30.1	11.1	3.9	3.3	145.7	.17	.51	.60	15	1.29	.058	12.2	20.3	.50	86.8	.008	2	1.57	.010	.12	1.1	.07	59	1.7	.04	4.8
GSMS-004349	1.50	20.09	19.34	66.1	82	23.6	10.9	405	3.18	47.8	.5	4.3	5.3	7.0	.08	.59	.48	14	.02	.033	25.6	20.5	.38	37.8	.003	<1	1.21	.008	.07	1.6	.04	10	.3	.18	4.7
GSMS-004370	2.88	19.24	42.05	46.7	210	18.8	11.7	484	2.46	59.4	.6	72.6	3.6	5.7	.08	.61	.63	13	.01	.028	14.6	17.4	.21	36.1	.005	<1	.76	.008	.06	4.4	.05	15	.3	.31	3.3
GSMS-004350	1.30	55.00	41.45	113.7	131	25.0	17.2	743	4.22	43.9	1.2	3.3	6.7	20.7	.39	.88	.60	13	.05	.053	21.1	19.8	.27	59.4	.002	<1	1.32	.007	.10	.5	.05	25	.4	.19	4.2
GSMS-004396	1.33	26.96	19.45	65.0	64	23.7	11.4	437	2.59	33.1	5.7	5.2	4.2	160.3	.27	.57	.58	15	1.58	.053	12.8	25.6	.52	79.4	.007	2	1.49	.009	.13	2.0	.08	36	1.3	.09	4.5
GSMS-004402	1.51	28.47	22.98	71.2	65	26.4	15.6	547	3.04	34.8	1.1	2.3	10.5	41.8	.17	.60	1.23	25	.48	.050	27.6	26.1	.61	116.6	.024	1	2.14	.010	.40	1.7	.13	7	.4	.04	5.7
GSMS-004413	1.47	33.67	20.23	56.0	69	29.0	14.0	438	2.76	26.2	1.5	2.4	6.1	65.3	.12	.54	.46	17	.96	.057	15.5	32.8	.60	101.1	.005	1	1.59	.010	.12	2.0	.05	29	.4	.04	5.1
GSMS-004376	1.77	15.26	14.21	44.3	180	16.2	5.9	164	1.84	74.7	.4	7.8	3.1	7.8	.23	.55	.23	10	.01	.022	15.9	14.4	.18	29.0	.003	1	.68	.008	.05	1.9	.02	6	.2	.06	2.6
GSMS-004414	1.19	28.83	20.38	71.2	86	27.9	14.3	574	2.89	27.5	1.7	3.4	6.0	76.4	.16	.62	.43	15	1.05	.049	14.1	25.6	.57	104.3	.003	1	1.59	.008	.12	1.1	.05	32	.5	.07	4.6
GSMS-004389	1.62	19.16	18.28	48.6	37	22.4	11.9	575	2.42	49.4	1.6	3.1	5.4	31.5	.11	.43	.31	16	.46	.039	15.2	19.6	.36	41.6	.005	1	.95	.007	.06	1.5	.03	16	.4	.04	3.0
GSMS-004412	1.90	28.15	21.10	68.3	60	27.7	14.0	539	2.83	34.5	1.2	3.6	5.2	60.9	.18	.67	.77	15	.92	.054	13.5	31.8	.60	84.4	.004	1	1.57	.009	.11	1.9	.05	32	.5	.06	4.7
GSMS-004377	2.02	14.36	14.85	44.7	68	16.9	6.0	185	1.88	106.2	.4	1.4	4.2	4.6	.12	.55	.26	7	.02	.016	14.4	17.8	.19	20.1	.002	<1	.65	.004	.04	1.8	.02	<5	.2	.06	2.3
RE GSMS-004377	1.65	12.29	12.45	46.9	60	14.2	5.1	190	1.96	110.4	.4	1.5	3.6	4.3	.10	.46	.21	7	.02	.014	17.9	14.3	.20	21.4	.002	<1	.69	.004	.04	1.5	<.02	<5	.1	.03	2.0
GSMS-004385	1.07	57.48	37.23	104.1	660	37.3	12.7	528	3.41	137.7	2.5	14.7	5.4	99.7	.78	1.30	.61	15	1.64	.101	15.1	20.9	.39	130.1	.004	2	1.87	.013	.17	.7	.08	100	.7	.10	4.3
GSMS-004405	1.58	34.94	20.52	65.0	66	25.4	13.5	535	2.60	38.5	5.4	5.9	4.8	123.7	.32	.68	.54	16	1.70	.055	13.3	26.2	.54	99.7	.005	3	1.48	.009	.15	.8	.07	40	.7	.07	4.6
GSMS-004380	2.41	14.47	27.14	32.0	197	13.5	5.4	182	1.83	53.2	.4	5.6	2.0	16.3	.16	.47	.29	11	.16	.032	12.3	16.8	.15	47.5	.004	<1	.74	.013	.07	2.6	.04	13	.2	.06	3.2
GSMS-004386	.89	50.84	33.85	103.7	395	34.4	13.4	528	3.48	106.0	3.2	10.8	5.3	93.1	.50	1.00	.58	15	1.48	.085	15.0	18.6	.41	130.0	.004	2	1.88	.015	.18	.6	.08	69	.6	.11	4.8
GSMS-004398	1.82	25.11	20.29	66.6	83	24.5	12.9	511	2.84	36.9	3.4	2.7	6.2	69.0	.15	.58	.71	18	.85	.052	20.4	26.1	.56	81.2	.014	1	1.61	.010	.17	2.2	.10	28	.9	.04	5.3
GSMS-004410	1.47	31.86	21.47	72.6	72	33.8	15.7	602	3.28	35.3	.6	4.3	8.3	56.2	.11	.71	.58	19	.99	.054	24.6	35.5	.82	70.7	.004	1	1.87	.007	.20	.9	.04	12	.4	.08	5.1
GSMS-004378	1.97	14.75	16.53	15.9	410	8.0	2.5	75	.97	44.3	.6	3.2	.2	31.7	.32	.28	.15	7	.24	.058	6.1	14.8	.06	45.5	.006	<1	.52	.022	.04	2.3	.02	29	.3	.04	1.6
GSMS-004566 PULP	1.12	32.96	7.59	53.4	50	15.3	14.7	472	4.13	2.1	.6	.6	2.6	53.1	.08	.12	.17	175	.52	.044	13.4	44.8	.55	88.6	.448	1	4.28	.162	.06	<.2	.14	39	.2	.03	11.2
GSMS-004452	.87	41.30	26.73	66.9	161	29.2	16.2	513	3.00	34.8	2.1	4.5	7.2	94.2	.14	.83	.55	16	1.11	.061	15.6	25.7	.51	88.3	.003	1	1.64	.008	.12	.4	.06	44	.7	.08	5.2
GSMS-004406	1.42	40.74	23.07	81.4	94	34.9	15.7	588	3.28	34.3	2.1	4.0	6.4	79.1	.25	.58	.58	19	.79	.053	19.8	31.7	.70	117.6	.005	1	1.87	.009	.14	1.0	.06	29	.6	.06	6.0
GSMS-004379	1.70	12.03	22.96	44.9	305	14.6	5.8	213	2.10	70.3	.4	2.0	4.3	12.1	.16	.45	.31	19	.09	.014	17.8	18.8	.22	44.4	.009	1	.96	.008	.05	1.3	.04	7	.2	.06	3.8
GSMS-004409	1.46	20.93	19.20	57.6	45	26.5	14.1	505	3.04	37.6	1.0	3.6	6.1	33.0	.06	.59	.40	15	.40	.048	18.5	26.9	.66	50.3	.004	1	1.42	.006	.08	1.5	.03	16	.4	.06	4.7
GSMS-004390	.89	20.42	20.45	49.5	53	20.2	14.2	327	2.35	35.1	1.1	1.5	5.2	28.8	.13	.43	.48	18	.24	.027	14.7	15.4	.22	132.0	.009	1	1.63	.032	.11	.7	.07	23	.4	.03	6.0
GSMS-004407	1.99	24.18	18.47	55.0	52	23.5	12.3	489	2.69	33.2	1.7	2.9	6.3	43.8	.10	.48	.51	15	.45	.037	18.1	26.1	.54	71.4	.007	1	1.38	.008	.11	2.2	.06	20	.4	.04	4.5
GSMS-004400	1.31	24.30	21.71	70.9	79	25.8	13.4	553	3.01	50.0	1.1	3.0	10.4	29.4	.17	.57	.85	21	.33	.048	28.0	27.3	.59	78.8	.020	1	1.74	.010	.26	1.5	.12	10	.4	.06	5.1
GSMS-004451	1.54	29.78	23.89	67.5	86	28.8	14.8	567	3.14	34.8	1.3	5.8	6.7	57.9	.11	.62	.52	15	.61	.055	17.6	26.3	.54	94.0	.003	1	1.63	.007	.13	2.2	.05	27	.5	.04	4.9
GSMS-004553	.59	39.31	20.12	101.5	16	37.2	23.3	950	3.72	1.3	.9	.4	8.9	9.5	.07	.48	.50	19	.05	.043	22.3	26.1	.74	61.2	.007	1	1.51	.007	.12	.3	.03	8	.3	.02	4.5
STANDARD DS2	13.99	127.15	30.63	163.0	258	36.5	12.7	819	3.14	60.5	20.3	202.8	3.4	30.4	11.36	10.09	11.15	81	.55	.087	17.0	178.6	.60	142.9	.113	4	1.76	.032	.16	7.1	1.80	249	2.5	1.90	6.3

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
GSMS-004369	.83	<.1	.54	4.9	.5	1.5	<.01	4.5	1.15	38.8	<.02	1	9.0
GSMS-004394	1.07	.1	.94	12.5	1.8	1.1	<.01	4.4	4.32	41.0	.02	1	45.6
GSMS-004348	.86	.1	.13	5.1	1.8	.6	<.01	2.1	2.26	62.2	.03	2	14.8
GSMS-004401	1.84	.1	1.01	16.2	2.0	.8	<.01	5.9	6.47	50.3	.02	2	52.0
GSMS-004395	.83	.1	1.47	9.6	1.8	1.7	.09	5.8	7.52	21.6	.02	2	37.4
GSMS-004349	.71	.1	.29	6.3	.9	.1	<.01	1.8	1.37	43.9	<.02	<1	31.7
GSMS-004370	1.03	<.1	.50	4.4	.8	<.1	<.01	.8	1.27	28.2	<.02	1	25.6
GSMS-004350	1.73	.1	.20	8.5	1.2	.4	.02	2.3	1.48	36.7	.03	2	35.2
GSMS-004396	.95	.1	1.52	10.9	1.8	1.1	.08	5.3	5.72	23.4	.02	3	40.4
GSMS-004402	2.17	.1	.93	19.2	2.4	.8	<.01	8.5	7.44	58.3	.02	3	58.4
GSMS-004413	.62	.1	.77	7.6	2.4	.4	.04	5.2	6.27	28.6	.03	1	43.5
GSMS-004376	.32	<.1	.23	3.7	.5	.2	.01	.9	.97	25.9	<.02	<1	13.8
GSMS-004414	.52	.1	.57	7.9	1.9	.4	.04	5.2	5.94	24.4	.02	2	41.7
GSMS-004389	.38	<.1	.46	4.2	1.4	.3	.03	3.0	3.50	27.5	<.02	<1	28.7
GSMS-004412	.50	.1	.71	7.7	1.8	.4	.05	5.0	5.29	23.8	.02	<1	39.6
GSMS-004377	.42	.1	.13	3.7	.6	.2	<.01	1.2	.95	26.2	<.02	2	18.4
RE GSMS-004377	.38	<.1	.10	3.4	.5	<.1	<.01	.7	.88	26.2	<.02	<1	15.5
GSMS-004385	1.36	.1	1.07	11.7	2.7	.6	.15	8.2	16.46	21.2	.03	3	30.5
GSMS-004405	.86	.1	1.24	11.3	1.9	.9	.08	7.1	5.52	24.3	.02	1	40.5
GSMS-004380	.64	<.1	.37	6.2	.6	.3	.02	.5	1.31	22.1	<.02	<1	13.6
GSMS-004386	1.27	.1	1.18	11.8	2.9	.6	.10	6.9	11.72	23.4	.04	2	34.5
GSMS-004398	1.59	.1	1.98	17.3	2.0	1.0	.04	4.2	6.35	36.0	.02	1	49.4
GSMS-004410	.46	.1	.35	7.0	2.0	.3	.01	6.1	6.16	43.9	.02	1	49.0
GSMS-004378	.45	<.1	.51	3.3	.3	.4	.05	.6	2.31	10.5	<.02	<1	4.2
GSMS-004566 PULP	1.01	.1	.62	5.0	9.8	1.6	<.01	47.7	15.99	30.4	.06	<1	11.0
GSMS-004452	.70	.1	.68	8.1	2.1	.6	.04	7.2	7.89	27.7	.02	2	42.7
GSMS-004406	.79	.1	.92	9.5	2.0	.6	.02	4.8	5.40	35.3	.02	<1	52.1
GSMS-004379	.50	<.1	.86	4.6	.9	.6	<.01	1.7	1.52	31.1	<.02	<1	25.1
GSMS-004409	.40	.1	.41	5.3	1.5	.3	.02	3.6	4.05	33.1	.02	<1	44.0
GSMS-004390	1.07	<.1	1.36	9.4	1.4	.6	.01	5.0	3.95	27.0	.02	<1	28.2
GSMS-004407	.74	<.1	.92	8.1	1.6	.6	.02	3.8	4.49	32.9	<.02	2	40.3
GSMS-004400	1.89	.1	.91	16.5	2.1	.9	<.01	6.4	7.20	49.7	.02	<1	50.7
GSMS-004451	.53	<.1	.49	7.8	1.9	.6	.04	4.9	5.88	30.4	.02	<1	40.0
GSMS-004553	1.35	.1	.11	5.0	1.3	.5	<.01	3.7	5.67	50.6	<.02	1	49.2
STANDARD DS2	2.38	.1	2.21	14.0	3.1	27.2	.02	3.9	8.11	30.4	5.49	4	13.7

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Al ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
GSMS-004574	.44	55.71	38.13	153.7	40	43.1	26.7	897	4.95	7.6	1.2	.3	9.5	16.6	.22	.32	.59	15	.01	.023	47.6	15.8	.10	66.6	.002	3	.62	.002	.12	.2	.10	6	.2	.02	2.1
GSMS-004557	.78	27.74	28.14	83.6	43	31.5	17.8	762	3.92	3.1	.8	< 2	4.7	5.0	.09	.48	.36	21	.02	.035	27.4	18.9	.56	44.0	.021	1	1.40	.003	.14	.3	.05	15	.2	.03	5.1
GSMS-004571	1.12	19.89	40.28	112.2	33	31.2	18.8	875	3.77	6.9	.8	1.0	2.7	10.0	.29	.67	.46	27	.03	.047	42.5	30.9	.97	70.7	.024	1	1.94	.004	.11	.6	.07	12	.4	.02	6.2
GSMS-004563	.37	40.28	15.11	111.1	33	42.2	23.1	775	4.39	1.1	.8	.2	9.3	4.5	.06	.19	.45	30	.02	.040	31.2	36.7	1.04	32.1	.008	< 1	1.93	.012	.07	< 2	.04	8	.1	.10	6.2
GSMS-004577	.88	21.30	188.59	334.7	161	27.2	18.0	1593	4.33	16.7	1.0	.5	7.1	57.1	1.69	.85	.34	34	.93	.044	28.8	28.2	.86	151.0	.005	< 1	2.28	.006	.09	.5	.09	16	< 1	.05	4.3
GSMS-004555	.66	29.35	35.79	105.7	51	22.1	21.1	1136	2.47	11.2	.6	.3	5.6	897.0	.12	.60	.24	8	13.38	.037	19.0	16.9	.33	36.1	.002	< 1	.88	.002	.10	.2	.05	15	.4	.13	2.6
GSMS-004561	.95	25.64	19.10	81.7	33	28.0	16.1	529	3.39	2.5	.6	< 2	4.9	10.3	.09	.54	.39	19	.10	.051	27.7	19.6	.51	79.9	.007	< 1	1.38	.006	.15	.8	.06	25	.3	.03	5.0
GSMS-004570	.58	17.21	22.93	114.7	18	36.9	17.6	508	3.82	5.7	.7	.9	7.8	9.0	.20	.58	.37	23	.06	.034	38.3	26.8	.89	77.8	.059	< 1	1.68	.004	.15	.4	.08	9	.3	.03	4.8
GSMS-004554	.60	25.53	30.98	84.0	58	27.2	12.4	647	3.55	3.4	.9	.4	6.7	8.4	.09	.25	.38	14	.02	.050	44.5	20.9	.60	40.4	.004	< 1	1.56	.006	.11	.5	.03	14	.1	.07	5.5
GSMS-004562	.41	30.51	11.30	113.7	29	41.7	22.7	791	4.33	.7	.7	< 2	8.9	4.5	.12	.16	.29	30	.02	.026	32.2	35.8	1.07	46.6	.009	< 1	2.08	.010	.07	< 2	.03	5	.1	.03	6.1
GSMS-004569	.80	35.89	73.60	174.4	59	41.4	28.5	944	4.44	17.7	1.0	.9	7.3	29.4	.41	.80	.58	30	.30	.059	35.4	31.7	1.20	132.6	.034	1	2.42	.007	.22	.4	.14	11	< 1	.04	6.8
GSMS-004556	1.05	31.04	24.30	93.5	77	32.9	16.1	739	4.22	9.0	.8	.9	6.5	7.5	.11	.46	.41	22	.02	.046	27.2	25.0	.76	30.8	.007	< 1	1.84	.006	.09	.4	.04	11	.2	.04	6.1
GSMS-004576	.97	23.82	57.57	132.0	46	28.4	19.0	1310	3.82	29.7	.6	1.3	4.8	7.7	.43	.56	.52	23	.04	.047	33.7	24.9	.71	101.3	.010	< 1	1.76	.003	.10	.6	.09	12	.3	.03	6.2
GSMS-004560	.77	42.91	17.44	99.3	32	34.3	19.0	740	3.65	2.1	.5	.2	4.5	4.8	.09	.52	.26	18	.04	.050	20.0	25.0	.65	50.3	.006	< 1	1.51	.004	.14	.3	.05	22	.2	.02	5.1
GSMS-004568	.79	9.66	15.28	84.4	37	26.3	20.3	834	4.35	3.8	.9	3.4	2.1	9.7	.15	.40	.95	28	.01	.053	48.7	31.7	.71	59.8	.049	< 1	1.52	.003	.12	.3	.09	18	.3	.22	5.3
GSMS-004572	.86	21.46	20.03	133.2	22	44.7	24.7	611	5.64	5.7	.7	1.5	7.0	7.7	.14	.51	.43	41	.04	.025	33.2	63.3	1.61	66.9	.040	1	2.79	.005	.11	.4	.06	11	.2	.07	9.0
GSMS-004559	.97	50.87	52.94	118.2	22	38.2	26.0	994	4.86	7.2	1.8	.6	8.3	15.2	.06	.40	.77	18	.02	.053	54.0	26.4	.81	40.7	.006	< 1	2.24	.005	.12	.4	.05	9	.3	.10	7.0
GSMS-004565	.60	28.88	19.50	106.1	22	42.1	23.1	3203	3.86	.4	.7	.6	6.9	12.3	.23	.16	.28	24	.36	.039	28.0	30.6	1.17	73.5	.009	< 1	1.97	.013	.07	.2	.03	8	< 1	.05	6.0
GSMS-004573	.80	33.95	33.29	109.3	44	35.4	20.0	511	4.54	3.0	.8	.8	7.8	7.3	.12	.39	.70	20	.02	.053	43.1	31.0	1.00	86.2	.023	1	2.21	.004	.13	.4	.07	11	.2	.05	6.6
RE GSMS-004573	.79	32.53	32.46	103.3	39	33.8	19.2	479	4.33	2.9	.8	.7	7.5	6.8	.11	.40	.71	19	.02	.051	40.4	29.3	.95	80.7	.021	1	2.10	.003	.12	.4	.07	11	.2	.04	6.3
GSMS-004558	1.87	112.12	28.34	104.7	35	44.5	49.1	1574	4.24	4.9	1.4	.5	6.4	12.5	.12	.85	.72	15	.08	.049	32.4	25.4	.68	100.3	.006	1	1.82	.003	.14	.2	.08	11	.2	.05	4.9
GSMS-004564	1.10	17.67	23.61	79.5	36	28.5	16.1	816	3.95	4.1	.7	.4	8.9	6.9	.10	.48	.44	34	.05	.031	46.9	32.4	.77	50.0	.007	< 1	1.68	.008	.11	.7	.06	13	.2	.03	7.2
GSMS-004575	.57	20.16	24.98	101.4	45	29.0	14.1	504	3.83	9.4	.6	1.0	5.2	9.5	.17	.25	.33	19	.07	.043	40.3	25.6	.82	91.7	.010	1	1.80	.003	.12	.3	.06	< 5	.1	.02	6.0
GSMS-004567	.77	28.75	23.21	107.7	25	40.2	21.2	986	4.13	3.1	1.0	1.1	9.5	13.9	.04	.21	.33	21	.14	.064	20.1	37.2	.87	94.3	.004	< 1	2.12	.016	.15	.4	.03	< 5	.2	.02	6.1
MOBS-003300	1.05	21.68	23.36	72.0	30	22.4	11.2	454	2.97	13.3	.8	7.2	6.0	4.7	.10	1.64	.32	8	.03	.067	27.9	16.0	.24	28.5	.002	1	.79	.004	.08	.8	.03	11	.1	.02	2.2
MOBS-003524	.76	37.01	28.12	87.0	87	49.3	19.7	528	4.49	4.0	1.6	1.0	15.1	101.3	.08	.30	.47	8	.23	.040	27.0	23.6	.83	54.8	.002	< 1	1.61	.004	.04	.6	< 0.2	< 5	< 1	.04	3.7
MOBS-003303	.72	19.57	17.58	62.6	21	24.2	10.4	317	2.96	11.2	.6	2.6	6.1	4.8	.06	.54	.30	14	.03	.042	18.7	18.2	.50	30.0	.007	1	1.35	.005	.05	.4	.03	8	.2	.03	4.1
MOBS-003525	.88	30.54	31.64	72.7	105	39.7	21.7	554	4.16	8.1	1.5	.7	14.4	105.0	.15	.45	.37	11	1.19	.064	35.4	17.8	.46	49.5	.003	< 1	1.30	.005	.07	.8	.03	7	.1	.04	2.3
MOBS-004497	.76	34.01	56.18	123.2	86	35.5	23.9	1089	4.28	18.0	.8	1.2	6.5	8.1	.19	.51	.81	28	.03	.037	42.0	33.7	.94	70.0	.017	1	2.12	.003	.10	.3	.08	8	.2	.06	6.3
MOBS-003299 PULP	1.11	34.95	8.11	52.2	42	14.7	15.3	540	4.40	2.7	.7	1.1	2.7	52.5	.11	.12	.19	177	.52	.045	14.0	44.6	.58	90.9	.474	< 1	4.29	.134	.07	.2	.14	32	.5	.06	11.2
MOBS-003518	.82	11.87	8.22	12.2	13	10.5	7.6	739	1.13	21.6	.5	3.4	8.8	14.8	.02	.12	.14	2	.16	.046	18.8	6.2	.19	14.6	.002	< 1	.64	.001	.02	1.2	< 0.2	< 5	.1	.02	1.5
MOBS-003530	1.08	12.87	18.66	69.8	92	22.3	12.4	650	3.86	6.9	.7	.7	3.5	6.4	.15	.40	.58	37	.02	.037	39.7	30.8	.57	70.1	.031	1	1.58	.007	.13	.5	.11	18	.2	.03	7.2
MOBS-003526	1.38	23.34	19.09	76.0	19	27.8	13.4	431	3.57	3.1	.7	.8	9.6	49.9	.08	.19	.38	11	.08	.053	18.6	27.7	.77	42.5	.005	< 1	1.62	.005	.07	1.9	.02	< 5	.1	.05	4.6
MOBS-004506	.42	10.53	13.19	107.3	52	40.7	25.8	1253	4.36	.4	.6	.8	9.1	6.9	.14	.30	.46	31	.04	.047	53.3	39.2	1.14	54.7	.028	< 1	1.77	.008	.10	.2	.03	5	< 1	.05	5.3
STANDARD DS2	14.43	132.53	31.90	168.1	259	37.1	13.0	836	3.24	60.7	21.6	208.8	3.7	30.5	11.60	9.55	11.60	84	.56	.085	18.2	176.6	.62	146.6	.117	2	1.79	.034	.17	7.3	1.88	260	2.5	1.86	6.2

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
GSMS-004574	1.55	.1	.08	7.6	1.3	.9	<.01	2.8	4.86	79.9	.03	2	7.6
GSMS-004557	1.21	.1	.50	9.2	1.0	.3	<.01	1.4	3.98	46.9	.02	<1	25.0
GSMS-004571	2.73	.1	.43	9.2	1.1	.6	<.01	1.3	5.85	75.8	.03	1	39.9
GSMS-004563	2.72	.1	.21	5.8	1.3	<.1	<.01	3.7	4.65	58.0	<.02	1	52.5
GSMS-004577	1.81	.1	.27	8.3	5.2	.1	.01	4.4	15.10	65.3	.06	2	19.7
GSMS-004555	1.19	.1	.07	5.8	1.7	<.1	.01	3.3	9.59	34.6	.02	2	16.5
GSMS-004561	1.35	.1	.30	9.6	.8	<.1	.03	6.3	3.54	45.2	<.02	1	24.4
GSMS-004570	1.94	.1	.74	10.8	1.2	.3	.01	2.8	5.50	61.8	<.02	1	35.1
GSMS-004554	.84	.1	.13	6.8	.9	<.1	.01	5.5	4.10	74.1	.02	<1	36.9
GSMS-004562	1.55	.1	.28	5.1	1.2	<.1	<.01	3.7	4.09	55.3	<.02	1	50.8
GSMS-004569	4.52	.1	.74	19.2	2.5	.3	.01	5.9	10.84	63.9	.03	1	50.9
GSMS-004556	1.01	.1	.28	6.7	1.2	<.1	.01	5.2	4.19	49.9	.02	<1	48.0
GSMS-004576	1.26	.1	.43	8.7	1.0	<.1	.02	3.4	4.18	56.9	.02	<1	28.7
GSMS-004560	1.63	<.1	.23	8.3	1.0	<.1	.01	8.9	3.69	32.6	.02	<1	30.7
GSMS-004568	2.48	.1	.66	10.0	.7	.4	.03	.8	5.51	86.1	<.02	<1	30.7
GSMS-004572	2.06	.1	.80	7.9	2.2	.4	<.01	5.0	4.91	56.7	.02	<1	65.2
GSMS-004559	1.84	.1	.26	8.0	1.5	.3	<.01	7.9	6.91	95.8	.03	<1	61.1
GSMS-004565	1.14	.1	.22	4.7	3.0	.1	.01	4.4	12.01	49.0	.03	<1	57.2
GSMS-004573	2.04	.1	.49	10.3	1.3	.2	.01	5.4	5.10	73.3	.02	1	41.3
RE GSMS-004573	1.96	.1	.48	9.8	1.2	.2	<.01	5.4	4.90	67.7	.02	<1	40.7
GSMS-004558	2.42	.1	.14	8.7	1.3	.2	<.01	5.9	7.58	54.3	.03	2	37.9
GSMS-004564	1.18	.1	.41	9.3	1.6	.4	<.01	3.6	4.05	80.7	.02	<1	38.2
GSMS-004575	1.07	<.1	.25	8.3	1.0	.3	.01	4.9	4.78	64.5	.02	2	31.7
GSMS-004567	1.43	.1	.08	5.1	1.7	.2	<.01	3.5	6.55	37.4	<.02	2	66.8
MDBS-003300	.81	<.1	.09	5.4	1.2	.1	.01	4.0	3.90	48.9	.02	<1	25.8
MDBS-003524	.21	.1	.08	2.5	1.1	.1	.01	4.2	12.67	51.4	.02	2	44.1
MDBS-003303	.52	.1	.18	3.9	1.1	.2	<.01	3.6	3.42	32.4	<.02	1	45.8
MDBS-003525	.36	.1	.12	4.3	2.2	.1	.02	5.9	20.36	57.9	.03	1	18.9
MDBS-004497	4.14	.1	.50	10.7	1.6	.4	<.01	3.7	4.95	74.2	.04	<1	40.0
MDBS-003299 PULP	1.09	.1	.60	5.3	9.7	1.2	<.01	46.2	16.45	30.9	.06	3	10.9
MDBS-003518	.15	<.1	.12	1.4	.5	<.1	<.01	.9	5.11	36.1	<.02	<1	9.7
MDBS-003530	2.16	.1	.99	14.1	1.2	.9	.01	.4	3.90	69.5	.02	<1	25.5
MDBS-003526	.21	.1	.88	4.0	.8	<.1	<.01	2.2	4.87	36.3	<.02	<1	48.8
MDBS-004506	1.36	.1	.35	6.6	1.4	.3	<.01	1.9	4.55	97.7	<.02	<1	46.6
STANDARD DS2	2.58	.1	2.13	14.5	3.3	27.9	.02	4.2	8.48	31.6	5.54	2	14.2

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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GEOCHEMICAL ANALYSIS CERTIFICATE

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Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2316 File # 9903443 Page 1 (a)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: M. Buchanan

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Ca ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti ppm	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
RSHS-004105	.43	19.41	19.34	41.1	58	25.2	15.0	603	2.96	12.6	1.0	1.5	3.1	9.9	.05	.84	.38	13	.07	.060	9.5	18.4	.48	32.0	.005	1	1.27	.007	.03	<.2	.04	31	.2	.02	3.7
RSHS-004087	3.31	253.15	30.31	80.9	150	55.5	23.8	325	7.45	67.5	3.3	33.7	11.1	38.7	.25	1.16	5.23	70	.03	.090	30.6	47.8	.70	103.1	.076	1	2.84	.019	.24	2.5	.26	38	.8	.23	11.7
SDWS-003813	.51	43.99	17.72	48.1	90	21.7	10.8	337	2.55	56.1	1.2	6.5	3.0	4.8	.06	1.11	.42	17	.02	.082	8.6	21.8	.46	26.9	.010	<1	1.54	.014	.03	<.2	.05	48	.4	.04	4.4
SDWS-004175	1.60	82.43	17.82	73.7	101	30.4	20.8	592	4.41	19.2	2.0	81.8	2.3	116.5	.23	.73	12.27	44	.06	.087	20.9	36.7	.63	130.4	.055	1	2.30	.021	.22	.3	.42	50	.7	.40	7.3
SDWS-003984	1.40	171.80	9.56	60.3	111	35.8	24.0	444	6.55	5.5	1.6	16.8	10.5	127.9	.12	.33	9.08	74	.27	.091	28.4	55.1	1.04	103.6	.144	<1	3.04	.054	.50	5.5	.44	39	.6	.66	9.2
JESS-003756	.70	19.60	20.43	51.1	46	18.5	7.0	226	3.05	50.3	.9	1.9	1.3	5.3	.10	1.12	.49	20	.02	.087	9.3	14.9	.33	34.9	.011	2	1.43	.010	.03	<.2	.05	39	.5	.05	4.5
SDWS-003986	1.38	197.33	12.20	78.2	177	47.2	24.3	510	9.10	9.1	1.9	79.4	14.7	47.8	.16	.40	35.94	53	.11	.096	21.5	45.7	.76	107.6	.104	1	3.00	.029	.28	16.1	.26	13	.8	1.99	8.5
DHSS-003743	.78	34.81	11.20	81.5	263	14.2	18.3	2213	2.21	12.3	.8	16.6	.3	101.0	1.12	.37	6.08	27	.31	.118	10.3	15.7	.25	228.1	.015	1	.98	.017	.17	2.7	.19	101	.4	.22	4.1
DHSS-004271	.68	14.34	10.56	31.1	56	7.9	3.7	396	2.00	10.3	.6	3.0	.2	8.1	.20	.42	1.85	37	.02	.044	12.3	17.4	.18	51.8	.032	1	.87	.011	.06	.5	.10	30	.4	.05	6.3
SDWS-003815	.40	67.65	30.35	94.2	174	46.7	29.2	909	4.29	421.4	2.3	30.3	11.1	17.6	.05	2.03	.56	17	.17	.040	15.9	31.4	.97	41.1	.002	<1	2.17	.006	.03	<.2	.02	21	.1	.06	6.1
JESS-003632	.29	9.46	6.40	8.8	78	2.9	1.4	41	.69	4.4	.3	1.7	.1	15.0	.03	.16	.43	9	.04	.072	5.1	6.0	.05	22.8	.004	<1	.25	.018	.04	.2	.06	37	.2	.02	1.2
DHSS-003729	1.05	68.81	36.23	102.0	535	54.6	28.0	882	3.91	54.9	2.5	6.7	7.7	27.9	.34	7.68	2.80	60	.10	.070	30.5	64.9	1.10	92.1	.060	3	2.93	.015	.26	11.5	.37	36	.4	.24	9.1
RE DHSS-003729	1.12	70.91	36.70	105.7	552	57.7	29.0	925	4.05	56.3	2.6	7.9	7.9	29.7	.33	8.18	2.67	62	.11	.073	33.3	68.0	1.16	97.5	.065	3	3.11	.018	.27	12.1	.37	35	.5	.14	9.4
SDWS-004174	1.49	77.02	14.95	77.4	104	39.1	29.7	824	4.27	13.8	2.1	20.9	2.9	55.9	.23	.92	3.76	39	.04	.100	29.1	26.2	.53	107.5	.046	1	2.02	.015	.22	.3	.38	56	.4	.16	7.4
RSHS-004066 PULP	1.10	31.82	8.44	53.4	49	14.5	14.2	514	4.47	2.3	.7	.6	2.9	50.2	.08	.15	.28	175	.53	.043	11.5	43.2	.58	90.3	.482	1	4.33	.164	.07	.3	.14	44	.5	.07	10.7
RSHS-004076	1.38	69.79	18.60	69.0	438	31.6	7.2	182	1.74	43.3	12.7	13.2	1.4	67.7	.20	.77	5.31	20	.61	.140	40.0	23.6	.39	83.9	.023	2	1.72	.033	.15	.7	.17	42	3.6	.11	4.0
SDWS-003983	.41	111.12	10.31	57.7	93	42.2	38.1	1688	4.43	6.1	1.5	8.1	17.3	51.0	.16	.43	6.61	56	.85	.066	31.6	34.6	1.01	55.6	.035	<1	2.91	.035	.33	2.0	.30	20	.2	.11	8.1
SDWS-004145	1.34	127.91	11.92	82.8	129	58.5	33.8	785	6.55	8.7	2.7	21.6	13.9	44.9	.23	.39	7.11	64	.17	.104	20.5	57.3	1.02	136.5	.131	1	3.21	.033	.54	6.0	.45	21	.8	.24	10.3
SDWS-003985	.72	108.09	9.00	66.8	84	42.6	26.6	653	5.46	6.7	1.7	17.6	11.2	87.4	.22	.34	9.30	62	.37	.058	22.1	44.6	1.04	90.8	.106	<1	3.01	.045	.31	3.3	.32	16	.5	.57	8.5
JESS-003609	1.08	102.38	15.97	112.2	81	64.4	36.6	797	4.90	7.4	1.5	25.7	7.6	113.6	.26	.30	6.06	88	.35	.082	16.8	100.7	1.66	205.8	.151	1	4.17	.086	.66	1.0	.57	17	.5	.22	10.8
GSMS-004219	1.03	86.72	32.63	69.8	340	29.6	9.9	342	5.04	227.4	1.1	22.7	1.4	52.9	.24	.74	61.02	78	.08	.071	16.7	83.0	1.12	151.6	.083	1	2.64	.023	.27	9.7	.32	53	.9	.17	11.5
JESS-003618	4.25	176.92	48.03	103.8	206	70.7	54.3	931	5.78	11.8	3.3	15.7	15.6	105.2	.41	.21	7.47	67	.50	.055	27.3	65.7	1.42	101.4	.080	<1	3.19	.050	.64	.7	.49	18	.4	.12	10.2
SDWS-003808	.59	38.54	23.94	85.1	129	29.4	13.5	478	4.71	76.1	1.0	.4	7.0	2.9	.11	1.01	.61	21	.01	.086	12.4	30.7	.62	22.6	.003	<1	2.02	.005	.02	<.2	.04	80	.6	.06	7.2
SDWS-004159	.97	59.81	20.93	89.1	49	47.8	23.0	529	3.66	13.9	1.9	4.1	5.3	23.7	.21	1.20	1.98	60	.11	.060	20.4	62.1	1.10	99.5	.101	2	2.89	.015	.18	1.9	.27	48	.6	.05	8.4
SDWS-004165	1.40	120.21	14.34	67.6	143	30.1	21.7	665	4.61	80.0	1.8	29.5	4.4	31.2	.20	.57	10.92	44	.05	.116	30.9	40.4	.59	124.1	.053	2	2.12	.029	.28	.4	.38	55	.9	.60	6.2
GSMS-004191	4.59	142.35	17.99	65.4	129	38.1	29.9	602	5.32	8.3	3.0	34.9	11.8	95.5	.23	.32	27.78	72	.45	.061	27.3	72.3	1.26	120.0	.118	1	2.79	.046	.55	6.9	.42	32	.3	.28	8.8
JESS-003753	.44	34.04	32.23	81.8	49	37.4	18.4	457	3.77	79.5	1.2	3.1	11.1	5.6	.11	1.06	.77	15	.05	.042	17.1	25.7	.70	31.4	.003	<1	1.93	.004	.03	<.2	.03	31	.3	.04	5.0
JESS-003728	.98	68.96	13.74	75.8	95	46.1	27.9	916	3.66	9.8	2.2	7.6	6.9	29.5	.22	1.12	2.35	59	.13	.079	19.1	52.2	1.06	136.0	.115	1	3.12	.028	.30	1.8	.36	29	.5	.09	8.7
JESS-003719	1.35	70.39	23.44	139.5	59	44.3	27.2	841	4.23	14.2	1.5	5.7	4.8	17.2	.21	.68	3.56	47	.08	.098	23.1	36.6	.85	130.0	.061	2	2.92	.011	.18	.8	.28	54	.7	.08	8.5
DHSS-003746	.90	168.75	27.24	102.6	157	44.1	31.5	370	4.56	139.9	1.4	18.1	7.4	138.7	.28	.81	19.02	54	.08	.054	20.7	46.0	1.12	179.1	.085	<1	3.49	.030	.32	.4	.40	28	1.0	.15	8.0
JESS-003639	.41	25.85	25.54	51.4	44	19.0	20.4	854	2.24	50.7	.9	1.2	2.5	10.0	.09	.93	.55	11	.07	.066	7.8	13.0	.39	33.7	.010	<1	1.33	.014	.03	<.2	.04	31	.3	.03	3.6
DHSS-003747	1.50	89.65	24.04	80.9	94	29.5	16.4	582	4.51	21.9	1.4	19.8	2.6	47.8	.16	1.19	10.80	47	.03	.071	20.9	44.9	.77	81.1	.053	1	2.23	.016	.11	.3	.22	34	.6	.09	7.5
SDWS-003918	.57	29.89	28.81	65.9	71	24.6	12.8	432	2.85	81.9	.8	3.5	4.1	8.4	.04	1.04	.48	22	.07	.063	16.1	25.7	.61	39.0	.013	<1	1.66	.014	.03	<.2	.04	14	.2	.03	4.8
SDWS-003821	.41	37.14	27.86	97.9	31	44.7	23.5	814	4.09	27.4	1.0	.5	8.6	5.1	.09	.97	.39	19	.06	.061	12.5	33.5	1.01	24.5	.005	<1	2.35	.004	.02	<.2	.02	34	.2	.04	6.2
STANDARD DS2	12.87	128.54	30.00	163.1	257	36.6	12.2	822	3.17	66.2	20.4	203.5	3.3	29.3	11.49	9.38	10.89	80	.54	.081	15.4	171.5	.60	144.1	.113	2	1.77	.041	.16	7.2	1.81	240	2.3	1.77	5.9

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.

UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 13 1999 DATE REPORT MAILED: Sept 22/99 SIGNED BY: C. L. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA



GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2316 File # 9903443 Page 1 (b)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: M. Buchanan

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
RSHS-004105	.85	<.1	.16	4.2	.6	.4	.02	3.1	3.79	18.8	<.02	<1	29.2
RSHS-004087	6.27	.1	1.90	46.5	3.5	3.8	.11	3.9	7.60	61.0	.04	<1	26.8
SDWS-003813	.85	<.1	.39	4.2	.7	.3	.05	5.8	2.67	16.1	.02	1	32.2
SDWS-004175	8.59	<.1	1.58	41.5	1.4	1.4	.16	1.7	5.90	46.0	.03	<1	20.6
SDWS-003984	6.68	.1	1.81	64.4	5.8	3.8	.27	3.2	10.61	55.6	.09	1	32.2
JESS-003756	.64	<.1	.52	3.8	.4	.5	.06	2.5	2.11	18.4	.02	<1	22.6
SDWS-003986	4.58	.1	1.14	37.0	4.1	3.1	.19	3.9	6.48	42.3	.09	3	25.9
DHSS-003743	2.49	<.1	.84	30.7	.3	1.2	.17	.4	2.33	22.3	.02	<1	6.1
DHSS-004271	2.62	<.1	1.28	16.1	.4	2.2	.06	.5	1.83	23.9	.02	<1	5.3
SDWS-003815	.68	<.1	.05	2.5	1.5	.3	.02	4.5	9.35	27.7	.03	<1	73.4
JESS-003632	1.20	<.1	.07	5.3	.1	.5	.05	.3	.76	9.8	<.02	<1	1.6
DHSS-003729	12.09	<.1	1.07	38.4	5.2	2.5	.03	1.4	10.50	72.1	.04	<1	51.5
RE DHSS-003729	13.14	<.1	1.09	39.7	5.5	2.6	.04	1.1	11.25	78.9	.05	<1	54.8
SDWS-004174	8.71	<.1	1.86	44.1	1.4	1.0	.11	2.0	7.56	89.3	.03	2	22.1
RSHS-004066 PULP	1.12	.2	.46	5.3	9.6	1.5	.01	48.1	15.25	30.2	.05	2	11.0
RSHS-004076	9.17	<.1	1.30	23.7	1.4	1.6	.13	2.5	88.33	44.3	.03	<1	40.9
SDWS-003983	5.37	<.1	.21	47.3	6.0	3.3	.07	5.1	19.23	70.4	.16	<1	39.4
SDWS-004145	6.60	.1	1.75	71.9	5.9	3.2	.08	4.9	8.45	44.4	.06	1	41.5
SDWS-003985	5.13	.1	.86	47.3	4.9	2.8	.13	2.0	8.27	46.6	.07	1	31.8
JESS-003609	6.80	.1	.77	66.7	6.1	1.3	.19	6.1	6.40	33.5	.04	<1	44.1
GSMS-004219	5.25	.1	2.54	42.3	2.5	6.8	.19	1.5	4.57	33.2	.05	<1	27.0
JESS-003618	9.37	.1	.30	70.6	6.2	2.3	.14	8.0	11.60	57.4	.05	<1	65.8
SDWS-003808	.97	<.1	.29	3.5	.9	.4	.06	12.4	2.59	22.2	.02	<1	52.2
SDWS-004159	7.77	<.1	2.03	29.6	4.0	2.1	.05	1.8	5.94	42.0	.03	<1	48.1
SDWS-004165	6.99	<.1	1.27	43.3	2.7	1.7	.23	1.7	6.02	66.6	.05	1	22.0
GSMS-004191	10.45	.1	1.54	66.2	7.0	3.3	.17	2.7	15.13	58.2	.06	1	38.9
JESS-003753	.70	<.1	.16	3.9	1.0	.2	.02	7.0	3.42	32.2	.02	1	64.5
DHSS-003728	7.44	.1	1.69	43.7	5.1	2.0	.05	2.4	8.80	40.3	.04	<1	42.8
DHSS-003719	4.28	<.1	1.94	31.1	2.5	1.4	.04	2.1	4.97	49.1	.05	<1	55.5
DHSS-003746	5.88	.1	2.20	41.3	3.7	5.6	.17	6.4	6.15	43.9	.07	<1	35.7
JESS-003639	.61	<.1	.21	3.6	.5	.3	.02	1.7	3.02	16.2	.02	<1	24.0
DHSS-003747	4.80	<.1	1.40	24.9	1.7	2.7	.08	1.5	5.16	42.8	.04	<1	21.2
SDWS-003918	.62	<.1	.30	3.9	.9	.3	<.01	1.7	3.12	29.4	<.02	<1	36.7
SDWS-003821	.49	<.1	.26	2.5	1.2	.1	.01	8.6	3.35	22.8	.02	<1	70.6
STANDARD DS2	2.50	<.1	2.01	14.1	3.1	25.5	.02	4.3	8.07	30.9	5.58	2	13.7

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.

UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 13 1999 DATE REPORT MAILED: Sept 22/99 SIGNED BY: C. L. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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Data L FA



ACME ANALYTICAL

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2316 FILE # 9903443

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ACME ANALYTICAL

SAMPLE#	As	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	Al	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga																						
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm																						
SDWS-004169	41	43	59	7	72	51	2	139	16	9	8	5	447	3	03	27	3	1	4	9	4	4	20	1	35	44	7	04	50	06	112	17	7	45	4	56	86	2	047	3	2	46	018	24	4	26	121	9	31	9	4						
GSMS-004035	1	30	232	77	7	55	42	3	306	21	3	11	8	267	10	10	5	6	1	3	90	3	15	7	84	3	02	44	323	38	82	13	089	18	5	85	3	1	42	109	2	204	1	3	04	196	1	32	4	7	80	8	1	0	11	13	3
SDWS-004010	26	28	85	16	24	38	3	75	16	9	9	4	688	2	19	7	0	1	2	1	9	3	6	48	0	10	1	01	1	85	13	69	068	15	0	10	3	26	48	5	014	2	86	037	04	<2	03	25	1	02	2	2					
SDWS-004153	43	101	44	17	81	99	9	57	40	9	36	6	894	4	81	24	5	2	2	6	4	6	9	26	9	33	84	6	29	42	06	073	29	5	35	3	81	93	2	066	2	2	91	013	22	6	26	23	9	06	0	3					
GSMS-004212	3	85	381	76	50	82	110	0	160	71	4	47	0	1205	10	21	236	7	3	0	310	1	12	9	71	9	16	33	17	66	56	03	045	21	1	59	1	1	21	138	0	018	1	4	10	015	52	2	49	13	1	3	1	4	11	7	
GSMS-004200	2	41	146	18	52	16	46	2	99	25	1	65	7	1070	4	94	20	0	4	0	19	2	10	8	158	5	28	56	16	51	47	50	071	36	8	40	9	1	27	95	3	031	1	3	58	014	50	3	42	22	6	5	16	1			
RSMS-004058	1	66	127	13	32	61	111	3	120	39	4	52	5	929	5	35	18	3	2	1	19	6	5	2	30	4	23	1	11	5	78	48	03	100	31	2	36	5	79	150	5	070	2	2	51	024	33	8	4	39	43	5	23	8	6		
GSMS-004205	1	69	257	12	10	15	102	1	479	68	6	121	0	3720	13	51	11	8	3	7	13	2	15	5	26	6	01	1	23	7	12	29	01	099	26	8	22	6	37	64	5	018	2	2	11	011	08	3	1	58	57	9	13	6	3		
JESS-003651	61	32	35	52	14	78	3	214	37	2	15	7	527	4	58	37	0	4	0	2	2	4	5	93	0	13	1	20	79	21	1	41	113	41	8	24	0	42	70	0	005	<1	1	80	008	04	<2	68	76	5	11	4	2				
JESS-003613	3	98	248	44	16	38	45	4	169	110	1	82	2	832	5	58	14	0	5	0	6	2	25	3	113	5	16	25	7	81	35	57	063	45	9	37	2	96	50	7	009	1	3	08	031	32	2	30	11	1	68	8	5				
DRSS-003723	1	19	61	32	18	97	108	9	81	37	2	25	3	817	3	55	15	4	2	3	5	8	8	3	28	6	26	83	1	53	38	08	094	28	5	32	0	69	88	2	063	1	2	71	012	17	6	24	64	9	10	7	4				
JESS-003633 PULP	1	04	32	37	7	34	54	9	42	14	1	14	3	567	4	48	2	8	7	<2	2	8	54	0	05	05	15	17	175	56	044	12	2	46	2	58	88	0	485	1	4	29	169	07	3	14	33	5	06	10	8						
GSMS-004186	5	10	99	96	26	20	90	7	114	57	1	42	4	1227	5	20	2	8	2	3	5	8	12	9	105	8	24	58	2	46	96	76	048	33	5	105	6	1	62	141	5	139	3	3	12	057	49	3	0	47	6	<1	13	10	2		
JESS-003634	44	13	15	3	24	14	3	388	5	3	2	2	111	80	3	7	6	10	2	1	14	7	05	05	13	2	61	14	2	61	14	04	091	5	1	7	7	14	29	9	005	1	64	022	06	7	08	54	3	06	2	4					
RSMS-004100	58	25	13	16	34	69	7	58	30	6	14	6	438	3	86	25	8	1	1	2	3	3	3	6	0	09	92	46	19	03	078	19	3	23	3	56	29	4	005	<1	1	38	004	04	<2	03	31	3	06	4	8						
RSMS-004064	1	20	134	19	9	45	69	0	67	54	3	36	8	741	4	00	9	1	1	5	116	6	2	3	25	4	12	48	21	26	63	08	065	24	9	59	8	1	10	84	4	075	1	2	91	015	29	1	1	38	29	5	1	27	9	2	
SDWS-003812	44	89	59	39	38	99	5	193	52	3	34	6	750	4	84	25	8	1	9	5	0	13	9	32	9	10	1	86	86	14	38	079	21	7	20	4	82	43	5	003	1	1	95	011	04	<2	03	30	3	12	5	0					
RSMS-004056	1	15	69	95	16	17	86	2	80	36	7	18	9	544	4	49	14	0	1	8	2	9	3	5	22	4	20	72	3	35	44	04	098	30	6	34	7	73	89	7	045	2	3	19	011	18	5	29	97	1	0	20	9	3			
SDWS-003819	57	61	33	35	71	68	8	84	28	7	14	5	481	3	10	34	2	1	2	2	7	6	4	8	9	04	96	56	17	08	075	9	3	21	4	65	64	1	003	1	1	96	010	04	<2	05	47	4	09	5	2						
SDWS-004157	1	40	106	03	19	42	116	4	103	48	6	30	1	846	4	83	18	6	1	9	18	9	14	5	25	2	14	94	16	67	52	08	127	35	3	48	6	98	114	2	094	2	3	07	029	44	4	47	38	1	0	15	9	3			
RSMS-004055	24	45	12	32	11	112	0	51	55	8	49	2	2264	6	18	15	9	5	1	2	2	15	6	82	0	24	27	1	35	22	46	018	44	0	18	8	1	27	47	5	003	<1	3	51	012	13	1	1	14	10	1	06	9	3			
RL RSMS-004187	5	20	157	10	12	97	71	3	120	39	6	35	0	902	6	43	5	4	4	28	2	13	3	139	1	17	31	12	39	73	52	066	29	9	85	4	1	25	184	4	101	3	3	13	051	46	13	3	36	25	3	96	9	9			
GSMS-004187	5	30	155	66	12	96	70	1	121	38	6	34	8	888	6	36	5	4	4	30	6	13	3	136	8	15	30	12	27	71	52	065	29	5	88	2	1	23	180	3	100	3	3	07	049	45	12	7	36	19	3	95	9	8			
RSMS-004109	77	71	72	44	20	110	2	107	55	2	52	5	814	4	40	33	2	3	6	3	5	16	0	11	3	08	1	93	54	17	04	045	24	9	24	2	64	39	4	004	1	1	85	004	04	<2	06	28	4	06	4	8					
SDWS-004172	93	22	14	14	74	60	9	83	17	7	6	3	222	2	68	12	1	8	6	7	1	3	9	5	11	40	1	40	1	78	53	04	052	16	3	44	8	69	56	0	061	1	2	33	010	11	5	19	51	8	07	8	7				
SDWS-004146	94	63	41	14	70	81	6	79	45	8	23	9	561	3	68	10	1	2	1	3	5	6	5	28	6	15	1	20	1	25	60	12	078	20	0	55	7	1	12	121	5	112	2	3	22	024	31	1	0	34	43	8	66	9	0		
JESS-003648	63	48	56	36	88	114	7	265	48	3	23	4	525	4	31	66	4	1	7	10	1	12	1	35	0	11	3	34	50	13	50	063	27	1	12	0	58	42	6	003	1	1	38	008	05	<2	04	30	3	13	3	3					
JESS-003620	1	25	58	54	10	49	86	0	45	49	0	54	4	1704	4	64	5	6	1	8	14	0	4	5	22	6	13	1	55	1	95	38	04	062	32	5	32	7	68	103	1	047	2	2	13	012	20	2	34	38	5	07	6	0			
SDWS-004173	1	87	118	71	15	27	83	3	66	71	3	95	9	1169	5	21	9	9	3	2	39	2	6	7	124	8	14	1	06	10	41	37	07	083	35	6	32	3	68	124	3	058	1	2	35	026	31	2	50	43	6	13	7	3			
RSMS-004083	1	96	100	93	21	03	76	2	87	64	2	55	1	702	4	72	11	8	2	1	19	0	4	1	105	3	17	79	6	13	45	06	089	27	4	31	7	66	101	9	060	1	2	14	014	23	8	37	55	9	50	7	7				
JESS-003751	64	37	17	14	81	89	2	60	27	7	18	7	1010	4	39	25	7	2	0	1	2	2	9	10	5	15	85	52	20	09	087	15	5	20	4	48	48	2	008	1	1	81	010	04	<2	0											



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
SDWS-004169	6.43	.1	3.70	50.4	1.0	2.3	.15	1.4	3.18	33.8	.03	<1	19.7
GSMS-004035	14.30	.2	.97	170.1	8.2	5.6	1.30	7.4	3.23	33.9	.06	<1	33.1
SDWS-003810	.25	<.1	.30	2.7	3.0	.2	.05	3.8	12.38	28.1	.05	<1	18.3
SDWS-004153	6.49	.1	1.36	33.1	2.8	2.0	.06	1.6	6.42	55.7	.06	1	55.1
GSMS-004212	11.60	<.1	.22	60.9	5.0	2.3	.10	4.7	7.68	42.1	.04	<1	56.2
GSMS-004200	11.89	<.1	.73	70.0	4.1	1.7	.12	3.2	10.89	73.8	.03	<1	61.7
RSHS-004088	9.15	.1	1.99	60.7	2.4	2.3	.17	1.7	6.27	68.8	.05	<1	35.7
GSMS-004205	12.57	.1	.32	12.1	2.9	.9	.13	3.0	6.84	59.9	.04	<1	26.5
JESS-003651	.76	<.1	.57	6.4	3.3	.6	.10	4.3	19.15	81.0	.05	<1	33.0
JESS-003613	8.43	<.1	.10	40.0	3.7	1.3	.12	7.5	15.99	86.8	.03	1	58.4
DHSS-003723	4.14	<.1	1.91	27.4	2.4	.9	.05	2.0	6.63	54.1	.03	<1	54.7
JESS-003633	1.16	.2	.52	5.5	10.0	1.1	<.01	43.9	14.93	29.9	.05	1	11.4
GSMS-004186	21.97	<.1	.14	58.7	11.2	2.0	.02	7.3	17.79	71.1	.07	<1	32.7
JESS-003634	1.84	<.1	.14	11.4	.1	.8	.07	.2	1.03	9.1	<.02	<1	3.3
RSHS-004100	1.15	<.1	.29	5.9	.6	.3	.04	3.0	2.70	34.9	.02	<1	32.2
RSHS-004064	10.91	.1	1.34	66.6	3.1	1.5	.06	1.6	7.25	55.6	.03	<1	40.8
SDWS-003812	.74	<.1	.09	2.9	3.2	.2	.02	8.8	12.15	37.2	.04	<1	54.2
RSHS-004056	6.15	<.1	2.60	29.7	1.8	1.3	.09	1.2	4.74	55.3	.02	<1	43.7
SDWS-003819	1.11	<.1	.26	5.0	1.3	.3	.04	7.5	6.63	15.4	.03	<1	49.6
SDWS-004157	8.68	<.1	1.57	56.0	3.8	1.7	.04	7.6	6.02	67.8	.05	<1	46.4
RSHS-004055	5.94	<.1	.12	16.5	2.0	.6	<.01	5.8	9.59	78.8	.03	<1	55.7
RE RSHS-004187	19.92	.1	.63	45.0	8.2	2.1	.14	6.2	17.73	59.3	.06	<1	32.1
GSMS-004187	19.57	.1	.60	45.0	8.1	2.2	.13	5.9	17.49	58.7	.06	1	31.6
RSHS-004109	2.40	<.1	.16	4.5	1.7	.3	.02	3.1	4.87	44.3	.04	<1	49.4
SDWS-004172	5.71	<.1	2.24	24.3	1.9	1.8	.05	1.0	2.83	30.7	.03	<1	30.1
SDWS-004146	8.23	.1	1.93	45.0	4.9	1.4	.04	1.9	6.92	39.2	.03	<1	45.4
JESS-003648	.50	<.1	.11	3.0	3.4	.2	.01	9.1	14.92	46.9	.04	<1	38.4
JESS-003620	8.39	<.1	.94	30.9	1.9	.8	.06	1.4	5.60	67.4	.03	1	52.2
SDWS-004173	12.62	.1	1.33	53.0	2.2	1.1	.13	2.7	12.56	88.5	.03	<1	34.7
RSHS-004083	8.78	<.1	2.03	45.5	1.8	1.0	.07	2.3	7.20	54.0	.03	<1	28.9
JESS-003751	1.44	<.1	.35	7.0	1.2	.4	.04	2.0	5.77	36.9	.05	2	40.7
DHSS-003749	11.81	.1	2.23	47.9	3.8	19.8	.18	2.0	4.04	30.7	.06	<1	36.3
DHSS-003724	8.45	.1	.92	76.7	5.0	2.2	.01	8.2	6.13	49.7	.02	<1	65.8
RSHS-004067	8.77	<.1	1.75	70.2	2.0	1.2	.22	2.7	6.11	46.6	.35	<1	21.5
STANDARD DS2	2.72	<.1	2.02	15.1	3.2	23.1	.03	4.3	7.85	31.5	5.24	2	14.0

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	As	Fe	Co	Ni	Al	Si	Ca	Mg	Na	K	Li	B	Sc	V	Cr	Mn	Pb	Cd	Hg	Se	Te	Ga					
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm					
SOWS-003811	10	34	10	37	41	71	8	139	28	8	17	3	603	3	40	12	7	15	4	2	4	56	6				
SOWS-004171	153	271	71	17	60	39	1	29	68	3	18	0	827	6	27	129	6	2	131	8	10	3	49	7			
GSMS-004207	2	26	430	10	22	59	70	0	313	25	6	13	8	391	16	31	61	0	2	2	28	10	7	59	9		
SOWS-004152	42	181	52	11	91	129	0	51	51	3	31	5	664	5	51	319	1	1	12	4	7	0	51	2			
SOWS-003817	47	81	59	66	31	120	9	211	62	8	80	5	2391	4	73	425	6	2	26	3	10	4	17	1			
RSMS-004079	2	56	49	33	58	62	154	0	68	33	7	19	1	672	3	86	19	5	2	7	10	3	8	13	7		
RSMS-004059	1	41	161	13	20	11	81	1	152	57	6	63	8	1946	6	08	13	5	2	2	11	9	1	7	40	0	
DMSS-003731	1	80	110	34	12	31	76	8	90	39	1	31	3	1273	4	52	11	1	1	6	115	2	4	6	32	0	
JESS-003643	43	41	25	67	94	97	5	220	32	1	26	0	795	3	34	264	7	1	8	21	2	7	2	19	7		
DMSS-003739	44	63	69	7	39	54	0	59	67	5	26	8	513	3	76	22	6	1	1	49	5	4	6	74	6		
SOWS-004163	1	60	102	25	12	37	84	1	68	39	7	22	8	722	4	56	14	3	1	1	67	9	1	7	22	6	
RSMS-004073	86	43	76	8	81	37	2	228	16	0	5	4	215	2	31	23	0	8	3	1	1	33	0				
SOWS-003803	64	41	37	20	87	71	2	112	28	2	20	7	1454	3	78	52	4	28	6	3	6	2	5	83	4		
GSMS-004188	6	40	179	43	23	50	92	0	176	44	8	43	8	1148	7	03	4	6	3	8	23	7	12	1	121	9	
DMSS-003738	1	24	263	52	13	40	71	4	122	32	6	27	1	625	4	67	75	1	1	9	51	1	4	1	38	6	
DMSS-003720	1	12	95	82	27	73	112	3	126	43	7	32	3	955	4	99	13	3	2	5	6	7	6	2	20	9	
JESS-003612	1	49	517	21	26	64	93	4	268	79	7	43	0	842	8	35	15	1	3	8	103	2	15	5	118	5	
RE JESS-004084	2	75	68	29	28	85	114	0	110	67	8	68	5	1579	5	57	9	2	2	5	14	7	3	4	2	26	3
GSMS-004218	93	47	20	21	93	62	4	263	22	6	9	2	474	4	48	33	6	1	0	4	0	5	3	30	2		
RSMS-004084	2	68	64	78	27	45	113	4	108	66	4	66	4	1552	5	46	9	0	2	4	27	9	3	2	25	7	
SOWS-003814	32	16	56	11	59	28	5	48	11	8	6	0	182	1	67	11	2	5	5	7	4	6					
SOWS-004147	93	61	28	23	56	76	7	403	51	5	26	5	747	3	76	51	1	2	3	10	8	10	8	44	9		
DMSS-003727	1	03	94	26	12	11	74	9	60	54	4	30	0	841	4	28	10	1	1	8	13	3	9	0	51	4	
GSMS-004216	2	60	100	97	108	64	117	4	727	25	7	27	3	902	5	75	104	6	1	5	83	5	3	3	76	9	
JESS-003644	39	8	19	7	87	21	1	51	5	3	2	8	119	1	13	17	2	5	7	2	2	5	8				
GSMS-004033 FHL P	1	07	33	24	8	07	54	5	41	14	9	14	3	554	4	51	2	7	7	5	2	6	51	7			
SOWS-004182	32	5	49	3	60	8	1	82	2	5	1	2	36	63	6	0	3	3	6	1	6	1					
RSMS-004101	65	22	62	15	87	61	7	66	25	5	12	0	541	3	78	21	9	1	0	2	3	2	2	5	8		
RSMS-004062	2	19	135	78	31	14	80	3	99	99	9	129	3	3850	5	95	10	2	3	7	5	3	5	9	32	2	
SOWS-004154	1	09	88	96	24	05	108	5	103	32	8	30	2	1381	4	36	17	0	1	8	7	6	2	2	21	8	
SOWS-003804	42	16	55	17	03	70	0	80	24	2	14	1	958	2	90	28	4	11	6	1	1	2	7	56	6		
SOWS-003816	53	80	99	101	37	138	2	251	49	7	49	1	1647	4	80	639	3	2	8	31	4	13	7	10	9		
GSMS-004206	2	31	156	08	26	39	125	2	77	78	7	95	2	3671	9	74	72	0	3	0	45	6	5	0	20	4	
RSMS-004085	3	08	90	33	21	74	97	7	104	44	4	26	2	761	5	74	7	8	2	4	98	0	7	3	45	6	
STANDARD 052	14	63	132	86	31	66	169	3	252	39	1	12	7	856	3	24	66	4	21	5	206	8	3	4	31	3	

Sample type: SOIL. Samples beginning "RE" are Retests and "RRE" are Reject Retests.



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
SDWS-003811	.34	<.1	.25	2.6	2.5	.3	.04	5.3	16.11	35.6	.07	<1	15.0
SDWS-004171	9.45	.1	1.26	61.7	4.5	2.7	.15	4.8	10.70	76.4	.07	<1	40.9
GSMS-004207	13.63	.1	.81	38.4	4.7	1.5	.56	5.0	3.97	30.5	.05	<1	42.2
SDWS-004152	9.98	.1	1.04	34.3	5.2	2.3	.12	3.3	5.70	35.7	.19	<1	51.8
SDWS-003817	1.02	<.1	.04	2.1	1.8	.2	.01	17.2	9.58	21.8	.03	2	79.2
RSHS-004079	4.78	<.1	1.06	19.7	2.5	1.4	.02	2.9	8.81	74.3	.04	1	38.8
RSHS-004059	8.06	.1	1.03	30.8	2.1	1.6	.16	1.0	6.79	51.9	.04	<1	58.7
DHSS-003731	7.38	<.1	.94	27.9	2.1	1.2	.06	.9	4.98	51.8	.03	<1	49.1
JESS-003643	1.00	<.1	.19	4.8	1.2	.2	.02	2.1	8.23	19.4	.04	<1	41.2
DHSS-003739	14.63	.1	2.42	69.6	5.7	4.8	.03	3.3	5.49	26.7	.03	<1	49.4
SDWS-004163	9.17	<.1	2.25	35.0	3.6	2.9	.09	2.0	5.25	36.2	.04	<1	35.6
RSHS-004073	3.96	<.1	.57	23.0	.3	2.0	.13	.2	2.71	26.1	.02	1	11.3
SDWS-003803	.52	<.1	.81	4.0	1.2	1.4	.21	7.7	6.40	13.1	.02	<1	42.9
GSMS-004188	15.02	<.1	.27	38.3	7.4	2.2	.15	6.4	17.34	55.4	.07	<1	28.2
DHSS-003738	9.21	.1	2.34	42.2	3.4	2.1	.13	3.3	6.03	39.3	.04	<1	36.3
DHSS-003720	6.05	<.1	1.37	23.5	2.1	1.1	.07	2.3	6.72	57.9	.04	<1	57.6
JESS-003612	13.16	.1	1.85	82.6	7.3	2.5	.33	8.6	8.39	57.6	.08	2	65.7
RE JESS-004084	9.39	<.1	1.63	41.6	1.7	1.3	.05	1.4	7.34	58.5	.03	<1	52.6
GSMS-004218	4.92	<.1	2.46	33.5	2.0	5.3	.06	2.6	4.09	39.1	.05	1	22.4
RSHS-004084	9.13	<.1	1.57	40.5	1.7	1.1	.05	1.4	7.00	56.9	.04	<1	51.2
SDWS-003814	.63	<.1	.20	2.9	.3	.2	.05	2.1	1.31	11.0	<.02	<1	21.0
SDWS-004147	13.53	<.1	.51	44.7	5.6	2.0	.02	2.5	10.92	72.4	.03	<1	41.4
DHSS-003727	7.92	.1	1.34	60.7	5.1	2.8	.05	4.2	8.47	44.4	.05	<1	42.8
GSMS-004216	5.42	<.1	1.81	36.5	1.5	4.2	.08	1.7	5.23	43.2	.10	<1	18.7
JESS-003644	.45	<.1	.18	3.5	.2	.3	.03	.3	1.05	10.2	<.02	<1	7.8
GSMS-004033 PULP	1.17	.1	.52	5.3	9.5	1.5	<.01	48.3	15.73	30.5	.05	<1	11.2
SDWS-004182	1.02	<.1	.16	4.7	.1	.6	.02	.2	.64	6.5	<.02	<1	1.9
RSHS-004101	1.24	<.1	.24	7.5	.5	.4	.04	1.8	2.43	30.2	.02	<1	23.0
RSHS-004062	13.50	<.1	.68	35.0	1.9	1.2	.06	2.8	15.02	103.3	.05	1	109.0
SDWS-004154	6.23	<.1	1.53	20.5	1.7	1.4	.09	1.2	4.32	42.8	.04	<1	49.5
SDWS-003804	.49	<.1	.41	5.3	1.0	.7	.11	3.7	1.97	14.5	<.02	1	39.0
SDWS-003816	.67	<.1	.04	2.3	1.7	.3	.01	7.1	7.70	31.3	.03	2	79.3
GSMS-004206	13.94	<.1	.56	19.0	2.4	1.1	.05	1.1	6.14	50.9	.04	<1	48.2
RSHS-004085	7.38	<.1	1.43	41.8	1.8	1.2	.09	2.4	6.94	67.7	.03	1	36.1
STANDARD DS2	2.78	<.1	1.97	15.2	3.2	25.8	.03	4.5	8.14	32.6	5.68	2	14.0

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



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ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
JESS-003616	4.52	180.90	48.63	101.0	167	73.4	55.0	919	6.25	11.3	3.5	9.9	14.2	111.1	.50	.24	11.29	65	.53	.052	25.1	66.9	1.44	103.3	.079	1	3.17	.055	.67	.6	.49	10	.4	.12	10.5
DHSS-003735	1.50	61.51	18.37	98.1	181	29.8	25.2	1344	4.38	8.8	1.8	3.3	.8	39.6	.75	.56	2.68	38	.15	.161	25.7	26.6	.51	210.6	.025	3	2.73	.012	.18	.3	.19	109	.9	.04	8.3
SDWS-004168	.87	51.28	7.52	50.0	124	20.1	8.5	463	3.80	53.6	1.3	45.5	2.4	28.4	.37	.41	5.37	52	.06	.085	27.8	43.2	.70	135.9	.078	2	1.94	.020	.46	.2	.39	69	.6	.23	8.8
RSHS-004060	1.68	89.86	12.11	63.9	44	26.6	13.0	373	3.92	9.1	1.6	4.5	3.8	24.3	.15	.82	3.81	43	.05	.063	27.0	34.4	.61	75.9	.049	1	2.00	.016	.13	.4	.22	29	.8	.04	6.3
JESS-003647	.73	67.19	37.23	125.9	126	58.6	29.7	246	4.77	13.7	2.0	.9	12.3	155.8	.11	1.34	.62	8	3.56	.076	11.7	17.3	.54	28.2	.002	1	1.07	.004	.04	<.2	.03	30	.6	.12	2.7
JESS-003617	1.44	14.65	18.85	60.4	60	6.1	8.5	665	2.60	1.5	2.2	.4	8.9	185.2	.15	.08	1.13	54	.91	.060	34.1	11.5	.70	298.0	.037	<1	3.20	.047	.33	.7	.28	18	<.1	.02	8.2
GSMS-004203	1.51	164.78	41.38	97.4	136	64.6	58.0	1023	6.03	15.6	3.3	165.0	13.5	140.3	.36	.33	11.76	54	.36	.056	28.1	52.0	1.39	115.1	.071	<1	3.35	.040	.63	1.2	.49	18	.4	.21	10.1
DHSS-003726	.54	48.71	15.51	81.1	38	49.4	20.6	471	4.04	5.1	1.2	2.4	11.2	34.4	.23	.48	1.19	80	.37	.038	17.9	86.9	1.63	158.0	.160	<1	3.43	.102	.87	.3	.52	12	.2	.09	10.4
DHSS-003750	.58	19.81	54.83	40.5	89	11.5	4.4	345	3.52	16.2	.8	1.5	.7	11.9	.13	.46	1.39	39	.03	.064	15.3	29.6	.40	52.2	.034	<1	1.48	.006	.11	.2	.16	45	.5	.04	8.3
SDWS-003805	.17	8.40	4.60	19.6	45	4.4	2.3	115	.65	33.4	1.4	.9	.3	22.6	.08	.14	.12	7	.40	.050	3.3	3.3	.09	19.8	.018	<1	.89	.033	.02	<.2	<.02	14	.3	<.02	2.0
RSHS-004069	1.20	128.26	16.83	70.0	354	26.2	21.0	923	5.64	52.5	1.8	277.5	5.5	66.6	.16	1.18	23.49	50	.03	.085	33.2	31.2	.57	156.1	.063	1	2.19	.022	.21	2.2	.31	25	.6	.20	9.5
SDWS-004156	1.03	106.85	24.13	120.0	69	53.7	43.1	1163	5.40	31.6	2.5	23.5	10.9	28.4	.32	.66	18.49	51	.07	.083	31.8	48.0	1.04	111.4	.073	1	3.18	.015	.24	.7	.28	17	.4	.12	9.3
GSMS-004197	1.25	439.21	88.26	62.7	349	70.5	65.3	506	6.81	12.3	3.6	406.0	16.2	119.9	.13	.41	120.77	45	.15	.084	23.9	32.8	1.23	69.8	.033	<1	3.62	.044	.61	.6	.44	12	1.2	1.96	8.8
RSHS-004096	.48	27.18	22.03	79.6	29	41.5	17.6	558	4.93	21.3	.9	3.0	6.6	3.7	.06	.77	.99	18	.01	.068	19.9	33.0	.94	23.6	.006	1	2.16	.005	.02	<.2	.05	27	.4	.14	5.8
SDWS-004178	.71	67.05	14.28	70.6	114	33.1	25.4	667	3.07	19.8	.9	237.1	1.3	30.1	.39	.62	92.35	45	.08	.062	14.8	48.8	.81	86.4	.058	1	2.16	.020	.14	.3	.18	57	.7	3.44	7.2
SDWS-004150	.52	22.68	6.49	17.4	49	8.2	3.2	60	1.75	4.7	.7	1.6	.8	9.7	.12	.45	1.19	17	.08	.077	6.6	14.5	.18	42.7	.031	1	1.18	.019	.10	.2	.12	266	.7	.10	3.0
JESS-003754	.66	62.16	50.57	118.4	157	51.3	24.7	674	4.80	14.1	3.2	2.5	10.4	21.6	.11	.63	.66	14	.31	.060	16.1	25.4	.83	41.7	.003	<1	2.05	.008	.03	<.2	.04	47	.3	.06	5.3
GSMS-004194	1.52	238.74	27.31	77.7	97	66.4	62.8	1073	5.85	18.2	3.2	15.5	13.9	62.1	.19	.48	11.65	45	.11	.081	36.0	33.4	1.28	99.3	.046	1	3.35	.034	.38	1.5	.38	22	.8	.16	9.2
RE GSMS-004194	1.49	238.43	27.40	77.2	105	66.6	63.7	1079	5.86	18.4	3.2	18.7	14.0	63.4	.19	.48	11.34	46	.11	.080	36.3	34.0	1.28	100.5	.047	1	3.37	.034	.38	1.5	.39	25	.7	.15	9.3
SDWS-004155	.82	48.24	11.01	50.3	107	17.2	14.1	463	2.59	8.0	1.3	3.2	.8	13.8	.28	.40	2.34	22	.03	.071	15.6	16.0	.36	51.2	.024	1	1.64	.015	.08	.4	.16	62	.5	.03	5.2
JESS-003646	.45	8.19	8.87	28.9	50	6.9	3.4	212	1.26	20.2	.6	.8	.3	10.9	.09	.57	.25	15	.09	.073	9.6	11.4	.12	50.6	.006	1	.72	.012	.03	<.2	.07	29	.3	.03	3.5
RSHS-004086	1.91	91.73	17.30	76.0	105	30.5	26.3	623	4.95	13.8	2.1	39.9	5.4	50.5	.13	.65	5.79	40	.04	.082	24.3	29.9	.62	147.8	.068	1	2.28	.027	.30	.5	.34	35	.8	.53	7.0
SDWS-004166 PULP	1.14	32.80	7.88	53.8	39	14.8	14.7	487	4.06	2.7	.7	1.3	2.9	51.8	.07	.13	.22	177	.53	.041	12.3	46.8	.58	90.3	.472	1	4.19	.156	.07	<.2	.14	36	.4	.04	11.0
JESS-003755	.68	39.31	28.46	80.7	94	35.5	13.9	387	4.05	84.7	1.4	6.4	6.2	5.3	.13	1.49	.46	21	.03	.083	17.6	25.8	.65	39.1	.008	<1	1.99	.006	.04	<.2	.05	47	.3	.07	5.6
JESS-003629	1.84	57.29	47.44	137.6	28	44.2	24.4	893	4.28	98.8	1.3	6.4	5.9	17.3	.18	1.07	3.92	60	.07	.057	25.8	53.1	.97	103.9	.074	2	2.88	.013	.21	1.5	.26	30	.6	.15	10.2
RSHS-004106	.59	19.15	16.21	62.4	27	32.8	12.7	396	3.49	10.6	1.1	2.2	2.2	9.4	.13	.65	.38	23	.08	.065	17.4	29.6	.62	52.1	.011	1	1.73	.004	.04	<.2	.05	16	.4	.02	5.0
SDWS-004149	.59	13.88	4.58	21.7	46	9.7	3.2	121	1.75	1.9	.4	.2	.8	24.9	.05	.21	.19	43	.14	.067	5.1	38.3	.48	45.9	.096	1	1.65	.062	.19	.4	.27	77	.6	<.02	6.2
RSHS-004054	.41	244.98	20.04	69.9	48	53.9	33.1	606	6.46	7.8	2.3	2.4	9.1	72.7	.11	.18	1.43	71	.28	.073	17.4	83.2	1.75	61.5	.008	<1	4.00	.011	.10	.4	.11	15	.3	.03	9.1
GS 704185	.82	115.05	21.58	133.9	109	93.8	64.1	2790	6.11	8.5	4.3	9.9	12.4	220.3	.21	.34	4.38	55	1.03	.092	36.1	61.0	1.64	92.7	.033	3	3.75	.058	.20	.8	.38	45	.2	.24	11.0
DL J03623	.81	42.05	9.37	59.2	59	29.9	19.6	1437	4.08	10.1	1.4	15.6	.7	13.1	.18	.38	6.21	67	.05	.097	21.9	70.6	1.08	93.0	.041	2	3.53	.012	.38	<.2	.36	72	.9	.29	9.5
GSMS-004220	.65	48.75	30.47	81.7	244	33.0	11.0	362	3.78	34.6	.9	11.8	.8	130.5	.27	.69	3.48	54	.07	.059	17.9	56.8	.98	136.4	.042	1	2.82	.019	.14	.2	.23	43	.5	.08	9.7
GSMS-004217	.93	50.63	20.93	59.6	206	22.7	11.7	631	4.47	70.2	.9	6.0	6.0	27.6	.18	.53	10.18	68	.04	.057	18.3	48.8	.80	102.9	.120	2	2.43	.018	.20	.3	.25	60	.6	.08	11.4
DHSS-003736	.65	69.25	6.90	58.1	24	39.8	16.4	483	3.76	4.6	1.4	19.3	13.5	20.0	.11	.24	2.97	24	.07	.071	46.5	25.3	.61	116.6	.060	2	2.24	.019	.44	<.2	.34	16	.4	.08	5.9
JESS-003645	.45	31.01	17.99	95.8	31	35.9	14.0	522	4.07	128.3	1.0	59.6	5.8	14.1	.11	.22	6.11	19	.02	.072	17.6	15.1	.35	21.0	.002	1	1.07	.002	.17	.8	.16	12	.1	.61	3.5
STANDARD DS2	14.38	130.13	31.98	165.1	253	37.5	12.9	836	3.18	63.7	20.9	199.1	3.5	30.9	11.71	9.61	10.82	82	.55	.082	16.8	166.9	.61	145.1	.116	2	1.80	.041	.16	7.2	1.87	243	2.4	1.91	6.3

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
JESS-003616	8.90	.1	.21	75.5	6.0	2.5	.14	7.7	10.73	50.7	.05	<1	65.7
DHSS-003735	6.58	<.1	1.88	32.1	.6	1.3	.14	1.2	3.95	48.4	.03	<1	30.1
SDWS-004168	7.90	.1	2.63	75.9	2.1	3.1	.16	2.7	3.77	51.3	.03	1	19.2
RSHS-004060	5.19	<.1	1.28	21.8	1.6	.8	.09	1.3	4.66	51.5	.03	1	29.7
JESS-003647	.46	<.1	.04	2.1	3.2	.3	.09	17.5	10.80	21.4	.03	<1	35.2
JESS-003617	6.72	<.1	2.16	53.4	4.1	1.7	.02	1.6	17.07	73.2	.03	1	37.7
GSMS-004203	8.49	.1	.30	71.0	5.0	1.9	.10	7.1	8.94	53.3	.04	2	61.5
DHSS-003726	7.08	.1	.57	85.8	5.6	2.8	.01	7.0	4.99	33.0	.03	<1	53.7
DHSS-003750	2.70	<.1	2.42	20.8	.7	4.5	.07	1.9	2.91	26.6	.04	<1	9.1
SDWS-003805	.14	<.1	.49	1.4	.4	.3	.04	1.9	1.97	6.9	<.02	<1	5.9
RSHS-004069	6.41	<.1	2.09	48.0	1.8	3.7	.13	2.7	6.37	62.0	.04	<1	14.1
SDWS-004156	5.36	.1	1.08	34.1	3.5	1.3	.04	2.9	7.38	59.5	.05	<1	59.7
GSMS-004197	8.69	.1	.44	79.7	4.5	1.4	.27	10.0	12.25	49.2	.03	1	46.1
RSHS-004096	.64	.1	.37	3.6	1.0	.5	.02	6.0	2.39	35.3	<.02	<1	59.1
SDWS-004178	4.00	<.1	1.81	24.2	1.9	2.1	.10	2.2	4.40	46.1	.04	<1	24.2
SDWS-004150	1.64	<.1	1.77	12.4	.9	1.3	.18	2.0	1.90	12.1	<.02	<1	5.1
JESS-003754	.69	<.1	.18	3.5	3.7	.5	.02	10.4	15.70	28.9	.04	1	67.3
GSMS-004194	10.21	<.1	.52	40.6	3.9	1.7	.16	5.3	10.17	69.8	.04	<1	65.2
RE GSMS-004194	10.38	.1	.54	41.2	4.0	1.8	.16	5.7	10.42	70.4	.03	1	65.2
SDWS-004155	3.04	<.1	.87	14.3	.6	.6	.07	.5	2.48	28.1	.02	<1	27.9
JESS-003646	.71	<.1	.26	4.3	.2	.4	.05	.8	1.20	16.4	<.02	<1	8.9
RSHS-004086	5.97	.1	1.91	45.1	2.1	1.6	.17	2.3	5.16	45.9	.04	1	28.4
SDWS-004166	1.02	.1	.45	5.5	9.2	1.3	<.01	47.0	14.74	30.0	.05	<1	10.8
JESS-003755	.81	<.1	.30	5.5	1.1	.3	.02	4.8	3.04	31.0	.03	<1	47.3
JESS-003629	8.85	<.1	1.48	40.3	3.3	1.8	.03	1.5	4.65	48.6	.04	<1	57.5
RSHS-004106	.69	<.1	.31	6.2	.7	.4	.02	1.3	3.71	33.6	.02	2	41.2
SDWS-004149	5.07	<.1	1.69	32.0	1.5	1.4	.05	1.7	1.61	9.9	.02	2	12.8
RSHS-004054	4.49	<.1	.13	14.7	7.3	1.7	.02	6.0	10.35	31.7	.03	<1	56.0
GSMS-004185	23.77	.1	.65	26.6	5.8	1.9	.10	3.5	25.23	76.2	.15	1	47.9
JESS-003623	7.16	.1	1.76	61.8	1.6	2.1	.10	1.3	4.79	42.0	.03	<1	40.2
GSMS-004220	4.31	<.1	1.60	28.7	1.5	3.9	.06	.8	4.08	35.4	.05	<1	29.8
GSMS-004217	5.27	<.1	3.14	47.0	2.9	5.4	.06	5.9	3.41	32.9	.05	<1	26.2
DHSS-003736	5.98	<.1	1.20	49.8	1.6	1.0	.02	3.7	5.24	85.8	.02	<1	39.6
JESS-003645	3.13	<.1	.36	23.6	2.1	1.0	.01	1.3	5.23	33.1	.02	<1	41.4
STANDARD DS2	2.43	<.1	1.98	15.2	3.1	24.1	.02	4.4	7.89	31.5	5.58	<1	13.9

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE #	As	Co	Cr	Pb	Ag	Ni	Mo	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Li	B	Al	Na	K	W	Ti	Hf	Se	Te	Ga																						
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm																						
JESS-003640	61	25	38	23	30	71	8	34	25	6	10	6	333	3	15	123	0	8	4	1	4	6	4	2	08	1	38	.40	19	02	.053	11	6	24	1	53	32	6	.007	2	1	55	.004	04	<2	05	28	.4	03	4	8					
SDWS-003806	32	40	39	25	03	41	1	52	46	4	20	1	679	4	12	83	4	1.2	7.5	10	2	9	3	07	1	07	.40	16	10	.019	28	1	25	2	.94	32	1	.004	1	2	06	.006	03	<2	02	18	3	05	5	5						
SDWS-004160	81	37	13	92	35	105	6	116	33	1	19	7	1244	3	55	9	4	9	2	8	1	8	21	.39	.64	1	32	63	.09	.066	15	9	55	8	1	10	83	1	.056	1	3	06	.014	.13	.7	20	45	.5	02	8	8					
RSMS-001063	2	14	17	41	10	41	85	9	45	41	9	74	5	510	3	73	16	3	2	0	9	0	10	6	26	0	14	38	2	10	26	11	.931	35	6	35	2	79	78	1	.030	<1	2	48	.007	45	<2	34	16	2	11	6	4			
GSMS-004189	3	13	37	10	35	43	4	136	8	1	9	7	615	2	37	2	2	2	5	12	8	12	4	184	5	28	23	12	71	41	1	.02	.052	39	2	12	4	66	193	0	.019	<1	2	50	.030	.33	.7	26	11	1	11	7	1			
DRSS-003744	68	51	51	10	41	68	1	156	23	3	15	1	556	3	53	24	5	9	10	7	1	0	57	4	27	.53	5	50	31	03	.093	18	7	22	7	54	121	7	.027	1	1	81	.014	18	2	0	18	79	6	09	5	5				
JLSS-003650	.11	22	60	14	76	78	0	57	29	0	8	7	284	3	23	29	1	1	6	8	5	0	31	7	08	.68	.45	14	41	108	13	0	17	9	51	69	4	.004	<1	1	61	.006	03	<2	04	23	3	07	4	2						
RSMS-004070	1	03	41	23	10	09	10	6	168	15	7	10	1	354	3	13	13	9	9	6	7	4	55	1	16	70	3	82	38	05	.067	13	5	13	5	31	105	5	.027	1	1	46	.015	10	5	16	56	5	07	6	7					
RSMS-004104	57	17	83	17	77	56	5	48	24	7	11	5	488	4	06	11	3	1	1	3	2	1	5	1	16	.68	.39	18	.03	.088	9	1	23	5	51	24	5	.008	<1	1	51	.003	03	6	.03	59	.4	03	4	9						
GSMS-004210	23	86	53	6	54	44	5	19	68	8	36	5	1207	3	53	1	1	1	1	23	4	6	7	119	4	.05	.06	1	23	105	.98	.019	18	7	140	3	2	55	122	9	.021	<1	4	42	.034	.70	<2	77	7	.1	15	11	4			
SDWS-004151	1	69	200	95	36	77	205	6	96	68	0	122	3	2947	6	58	132	5	3	1	10	1	9	1	28	1	57	.82	8	62	40	04	113	23	8	29	7	84	111	4	.054	1	3	19	.012	.16	.6	.24	101	1	2	13	7	7		
DRSS-003725	1	07	74	22	21	08	99	8	68	44	0	26	8	710	3	88	14	0	1	7	8	4	6	6	28	7	.18	.56	2	99	61	12	.079	21	1	68	2	1	11	112	6	.116	1	3	27	.026	24	.8	.28	27	.7	06	8	7		
JESS-003625	1	13	84	29	14	40	77	7	65	36	5	27	6	1007	4	47	16	7	1	7	27	3	8	5	27	6	.15	.83	5	03	44	05	.095	32	3	38	4	81	105	6	.076	1	2	25	.019	.35	.3	37	15	.8	18	6	8			
SDWS-004148	.78	79	88	29	85	71	0	330	47	3	24	5	718	4	47	24	7	2	3	3	6	16	5	25	1	.19	10	24	1	71	35	.12	.051	39	1	39	6	61	72	6	.015	4	1	68	.019	.26	10	0	.30	42	2	.07	4	8		
RSMS-004097	90	16	62	15	36	52	4	25	18	9	8	1	398	3	61	13	3	7	1	6	.3	6	8	1	.06	.59	.33	31	.02	.052	16	0	24	4	42	37	3	.011	<1	1	33	.007	03	<2	.05	25	.3	05	6	7						
GSMS-004213	1	90	270	83	30	50	124	3	97	70	2	114	1	2105	7	16	56	1	2	7	143	0	8	4	99	9	.28	26	17	04	74	24	.100	20	1	81	0	1	67	172	3	.055	1	4	25	.022	58	<2	.57	35	1	1	77	11	1	
RSMS-004089	2	42	214	24	24	53	88	9	217	53	3	42	5	656	6	68	44	3	2	5	144	3	6	2	115	5	.18	.87	37	.01	60	05	.091	31	6	37	1	93	148	7	.083	1	2	72	.041	.39	6	3	48	28	1	4	1	48	9	2
SDWS-003809	48	47	87	33	37	89	7	108	42	8	22	3	595	4	05	19	4	5	2	2	4	10	2	29	1	.11	.83	.71	14	57	.072	14	1	23	0	80	28	2	.002	<1	1	87	.008	.03	<2	.03	32	5	09	5	3					
JESS-003757	85	29	86	24	48	67	2	32	25	3	9	6	329	3	94	54	4	1	2	2	4	2	3	5	5	.08	1	55	.37	26	.02	.082	13	4	23	5	46	34	0	.011	<1	1	65	.006	.03	<2	.07	30	6	06	6	3				
JESS-003641	53	25	55	23	16	71	0	30	27	2	10	5	296	3	26	126	4	8	4	5	4	7	4	1	1	.08	1	28	.21	18	.01	.046	12	6	21	7	.59	32	7	.007	1	1	64	.004	.03	<2	.05	26	.4	04	4	8				
RE JESS-003641	.49	24	29	22	33	69	5	25	26	8	10	3	296	3	13	122	6	8	4	6	4	8	4	0	1	.07	1	26	.17	18	.01	.046	11	7	19	4	57	32	2	.007	<1	1	61	.004	.03	<2	.04	20	.4	.05	4	6				
SDWS-004161	.86	38	82	87	86	104	5	120	33	4	20	7	975	3	60	9	7	9	1	7	1	8	21	7	1	.39	.66	1	11	63	.09	.065	16	5	55	6	1	15	87	1	.063	1	3	16	.015	.14	.7	21	45	.6	02	9	0			
GSMS-004222	.66	56	08	18	27	66	6	344	29	8	10	2	338	4	24	50	4	1	0	9	1	2	5	40	6	.22	.52	5	94	51	06	.047	16	4	52	2	.97	78	1	.070	1	2	45	.013	.16	.7	.24	52	6	04	8	7				
JESS-003752	.68	25	50	20	80	83	1	41	29	8	12	7	403	3	99	22	7	1	0	.5	3	9	4	1	1	.10	1	03	.27	21	01	.031	16	0	26	7	63	28	0	.089	1	1	99	.004	.03	<2	.04	42	5	02	6	0				
GSMS-004196	1	25	275	96	31	53	84	7	115	31	1	26	3	428	5	28	13	0	2	1	112	7	8	9	33	7	.14	.53	35	.38	41	06	.106	20	5	27	2	.86	80	5	.051	1	2	91	.018	.28	.6	.26	30	1	3	.49	8	1		
JESS-003622	.99	35	02	8	07	64	9	84	30	1	26	8	1431	3	64	10	5	1	3	6	2	1	5	11	7	.14	.53	2	57	40	04	.086	25	7	39	8	.70	78	7	.040	2	2	04	.013	.24	.2	.28	39	.6	06	6	5				
JESS-003624	.56	29	77	5	51	31	7	70	13	3	13	0	547	1	68	13	1	9	6	3	4	12	0	1	20	.29	2	03	22	.08	.086	11	1	20	3	.32	49	3	.028	1	1	56	.020	.12	<2	.15	51	.7	.11	3	7					
DRSS-003733 PULP	1	04	32	16	7	32	51	7	41	13	3	13	5	537	4	26	2	7	6	1	1	2	5	49	7	.08	13	15	173	.52	.041	11	3	42	8	.54	84	1	.446	2	4	00	.147	.06	2	.13	39	.6	03	10	1					
GSMS-004202	1	96	260	50	78	13	59	6	132	72	6	42	8	568	5	66	16	4	2	6	78	3	7	6	133	0	.25	.36	30	.67	59	.38	.075	24	8	47	2	1	42	126	1	.048	1	3	46	.033	.69	6	48	27	1	0	13	9	5	
GSMS-004215	1	.74	.58	.66	.60	.17	.89	.3	186	23	9	10	9	584	5	80	85	2	1	1	12	0	5	4	42	5	.19	.88	10	.62	60	.05	.038	19	2	45	8	.75	105	8	.037	1	2	57	.014	.16	.6	.19	93	.7	07	9	9			
RSMS-004093	.44	29	36	20	81	74	5	53	37	1	11	2	338	3	87	22	3	7	1	9	6	5	4	2	1	.06	.54	.28	17	.02	.054	18	0	29	1	92	30	5	.004	<1	2	09	.005	.03	<2	.03	28	.3	02	5	9					
DRSS-003742	1	75	57	77	26	40	98	1	289	41	4	1	3	1159	5	79	76	5	1	7	28	2	3	133	4	.20	.95	13	.59	55	.08	.074	27	1	34	1	70	130	6	.048																



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
JESS-003640	.62	<.1	.51	6.2	.7	.6	.01	4.5	2.57	21.5	.02	<1	39.8
SDWS-003806	.45	<.1	.11	3.0	2.0	.4	<.01	4.9	7.62	52.0	.03	<1	65.8
SDWS-004160	8.02	<.1	1.78	28.7	2.7	1.8	.07	1.0	4.76	43.4	.05	<1	43.6
RSHS-004063	9.14	<.1	.89	45.2	1.7	.8	.01	5.6	5.28	69.5	.02	<1	34.4
GSMS-004189	6.01	<.1	1.14	39.9	4.3	3.2	.03	1.5	23.57	93.3	.05	2	31.0
DHSS-003744	3.18	<.1	2.11	29.4	1.1	1.5	.10	.9	3.83	38.2	.07	<1	18.4
JESS-003650	.51	<.1	.48	5.3	1.6	.4	.07	7.8	8.07	24.1	.03	2	35.4
RSHS-004070	4.57	<.1	1.15	26.8	.6	1.5	.07	.6	3.01	26.7	.02	<1	11.8
RSHS-004104	.71	<.1	.50	4.4	.5	.4	.05	2.4	2.34	17.3	<.02	<1	28.8
GSMS-004210	15.00	<.1	.08	82.3	9.8	2.6	<.01	6.8	12.83	33.5	.05	<1	56.8
SDWS-004151	9.92	.1	1.67	23.3	2.4	1.1	.09	5.2	5.87	47.9	.08	<1	85.6
DHSS-003725	5.86	<.1	1.81	37.0	3.6	1.8	.04	2.3	6.63	42.1	.03	<1	42.8
JESS-003625	7.15	<.1	1.10	50.0	2.8	1.6	.07	2.4	6.72	65.2	.04	<1	36.1
SDWS-004148	9.13	<.1	.37	29.5	4.8	1.9	.01	4.7	9.71	73.6	.05	<1	30.4
RSHS-004097	.89	<.1	.44	6.4	.3	.6	.02	.3	1.99	29.2	.02	<1	24.6
GSMS-004213	11.64	.1	.97	62.9	6.2	3.1	.13	4.4	8.17	41.0	.06	<1	64.1
RSHS-004089	9.09	.1	1.98	61.8	3.3	3.8	.28	3.5	9.99	63.3	.12	<1	31.8
SDWS-003809	.73	<.1	.16	2.5	2.4	.4	.04	10.0	8.81	25.8	.03	<1	56.2
JESS-003757	.93	<.1	.62	6.2	.8	.6	.04	1.3	2.81	25.4	.03	<1	32.7
JESS-003641	.60	<.1	.41	5.9	.8	.3	.02	3.7	2.59	23.0	.02	<1	41.6
RE JESS-003641	.59	<.1	.38	5.7	.8	.2	.01	3.8	2.49	22.0	<.02	<1	40.9
SDWS-004161	8.30	<.1	1.99	30.8	3.0	1.8	.07	1.0	4.89	41.8	.04	<1	45.0
GSMS-004222	4.32	<.1	2.52	28.7	2.4	2.6	.05	2.1	4.12	33.2	.03	<1	29.5
JESS-003752	.92	<.1	.48	5.1	.7	.3	.03	6.2	2.70	27.9	.02	<1	53.4
GSMS-004196	5.89	<.1	1.38	39.2	2.9	1.5	.10	3.8	5.74	40.8	.03	<1	37.4
JESS-003622	6.33	<.1	1.08	36.2	1.5	1.1	.05	1.0	4.47	52.8	.02	1	31.8
JESS-003624	2.68	<.1	.95	18.3	.7	.8	.05	.7	2.53	22.9	.02	<1	14.9
DHSS-003733	1.13	.1	.51	5.3	9.0	1.2	<.01	44.2	14.91	28.1	.05	<1	10.7
GSMS-004202	9.93	<.1	1.63	85.9	4.8	2.0	.16	4.2	7.92	50.3	.03	<1	56.0
GSMS-004215	4.52	<.1	3.57	33.9	2.5	3.7	.09	3.2	4.05	35.3	.06	<1	32.9
RSHS-004093	.83	<.1	.31	4.5	1.1	.3	<.01	7.6	2.04	32.1	.02	1	63.8
DHSS-003742	7.96	<.1	1.78	54.6	1.7	1.8	.10	1.2	7.22	75.3	.04	<1	24.5
GSMS-004193	6.61	<.1	.34	18.5	2.8	.9	.03	11.8	10.58	75.6	.03	<1	49.5
JESS-003636	6.76	.1	.81	45.1	4.2	1.8	.01	2.4	10.28	64.9	.04	<1	42.4
STANDARD DS2	2.77	<.1	2.07	15.1	3.2	25.7	.02	4.2	8.36	32.1	5.39	4	13.7

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE	Na	K	Fe	Zn	Ag	Hg	Co	Ni	Fe	As	U	Au	Pb	Sr	Cl	Si	Ba	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Hg	K	W	Li	Hg	Se	Te	Cu	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
GRMS-001211	2.03	239.99	26.30	91.4	109	67.6	69.0	1021.7	83	30.2	2.9	87.7	11.2	75.8	16	37	7.66	29	05	101.27	9	27.5	67	102.6	009	1.2	70	012	21	.2	23	30	6	35	7.2	
JESS-003611	2.82	118.72	21.45	75.2	80	76.7	75.5	1249.5	48	14.0	3.7	23.0	14.7	387.9	28	27	7.45	46	77	048.21	9	42.4	118	147.7	022	<1.3	57	034	51	2	43	17	3	11	9.1	
SDMS-003820	76	39.36	28.42	101.3	32	44.8	25.3	841.4	39	29.6	1.0	2.0	8.6	5.5	03	95	.55	18	06	057.17	9	28.8	98	24.3	004	<1.2	27	005	02	<2	03	24	1	05	6.4	
DRMS-003734	1.11	117.07	10.56	79.6	68	51.0	33.8	1415.4	59	10.0	1.8	8.7	6.1	29.2	18	64	4.42	42	05	064.30	9	42.0	79	128.7	053	2.2	69	012	21	2	35	27	5	07	7.3	
SDMS-004161	92	43.93	4.13	71.8	121	21.1	17.0	1102.3	48	15.0	1.2	21.0	8	21.7	32	33	10.03	73	09	095.15	6	57.1	91	132.1	070	1.2	12	019	35	4	29	65	6	11	10.9	
JESS-003636	1.00	91.94	11.73	80.5	128	36.9	38.3	1151.4	50	15.9	2.0	51.0	4.6	31.0	33	62	4.92	41	05	104.34	3	35.6	79	123.8	058	1.2	47	017	40	2	43	45	7	22	6.6	
GRMS-004221	57	23.66	11.81	45.4	273	13.0	6.6	385.2	17	9.5	7	1.1	2	31.4	46	35	1.46	35	05	061.10	2	32.1	38	74.2	022	<1.1	65	020	08	2	12	45	3	05	6.0	
SDMS-004199 PULP	1.14	32.61	7.81	54.3	41	14.2	14.3	471.4	04	2.8	7	2.0	2.7	51.0	07	12	19	172	.51	041.12	5	48.6	59	91.7	465	<1.4	25	154	06	2	14	37	3	04	11.0	
JESS-003758	64	46.55	25.01	102.0	67	48.2	31.3	782.1	16	45.4	1.7	3.6	10.2	9.1	07	1.77	59	14	.08	057.13	3	24.4	73	34.4	004	<1.2	00	006	03	<2	03	15	2	04	5.2	
RSMS-004094	70	23.17	21.79	38.0	59	11.8	5.4	550.2	98	16.7	7	5	1.1	4.5	03	79	44	26	01	099.15	9	13.3	23	28.8	007	<1.1	02	005	03	<2	04	31	4	08	6.8	
SDMS-004176	70	28.38	9.05	30.8	53	9.2	7.9	391.2	38	20.9	7	16.1	3	18.1	09	45	1.33	25	03	060.13	5	6.1	16	44.3	025	<1	89	018	07	2	10	33	3	04	4.7	
DRMS-003730	1.35	89.77	10.61	75.3	51	34.7	18.0	487.5	69	16.3	1.6	10.4	6.1	28.3	09	54	3.65	40	03	097.31	7	29.1	60	81.1	060	<1.2	74	011	19	.3	27	26	6	06	8.5	
GRMS-004224	78	32.50	18.55	70.4	220	24.7	10.5	413.4	07	17.6	.9	3.5	1.8	21.0	13	70	3.17	42	.03	043.20	0	39.9	70	78.3	041	1.2	25	008	.13	.4	19	35	.6	07	7.4	
RSMS-004103	53	15.79	9.56	31.9	64	13.0	6.1	131.2	36	28.2	9	1.2	1.4	4.0	07	.81	.33	18	.01	098.10	7	10.7	22	23.8	005	<1	.91	006	.03	<2	04	50	.3	04	4.1	
JESS-003615	1.91	126.76	26.29	77.1	103	61.3	47.6	807.5	08	8.7	2.5	24.7	9.5	150.0	30	15	11.84	86	.93	044.17	6	77.8	1.89	126.9	.098	<1.3	75	093	.81	.3	.66	8	4	12	11.2	
DRMS-003737	85	104.25	13.31	69.5	76	29.7	27.8	1226.4	20	34.6	1.4	19.5	1.7	25.7	24	49	11.00	53	.06	105.25	0	28.7	74	113.9	.053	2.2	71	016	.29	<2	34	41	.6	20	8.6	
DRMS-003741	1.01	44.76	29.95	90.2	75	25.1	14.7	524.2	83	33.9	1.3	4.5	1.9	11.4	13	55	2.44	43	07	097.15	3	32.1	.65	60.7	063	2.2	37	.020	16	6	19	31	.7	10	7.3	
RE DRMS-003730	1.36	87.81	10.53	74.2	52	34.4	17.9	484.5	62	16.8	1.5	6.5	5.9	28.2	.07	58	3.76	39	03	094.30	6	30.3	60	81.1	061	<1.2	76	.011	19	.4	28	26	.8	07	8.6	
RSMS-004075	1.76	220.60	14.85	87.2	145	50.5	27.3	396.6	05	41.2	2.0	54.6	1.6	66.0	23	64	49.16	51	.06	097.25	5	40.0	.83	109.4	.042	1.2	40	.025	.33	7.3	.34	33	1.2	83	8.3	
RSMS-004081	1.42	20.01	34.13	101.9	295	21.8	10.8	519.4	06	13.1	9	4.3	.9	7.2	21	64	1.49	41	.02	.051.24	2	30.6	62	66.1	.024	1.2	00	.007	06	.5	12	42	.5	09	8.1	
JESS-003621	1.14	54.54	9.75	79.9	45	45.0	50.7	1632.4	33	5.4	1.6	2.6	3.4	20.7	12	1.38	1.65	36	.03	.060.29	8	29.1	.63	96.5	.044	1.2	00	.011	19	.3	.32	36	5	05	5.6	
GRMS-004198	2.68	452.99	47.27	64.8	360	110.1	66.4	1136.6	13	8.3	3.6	676.7	9.1	236.7	13	32	166.17	88	.48	071.31	8	71.0	2.12	148.3	079	1.4	35	.034	72	4	59	10	1.2	4	94	11.1
SDMS-004167	1.05	77.74	8.43	61.6	71	23.3	11.9	564.3	90	80.2	1.5	13.7	1.0	38.8	28	43	6.25	55	07	110.23	4	43.9	.82	127.8	060	1.2	72	.028	.32	2	35	81	.8	28	9.6	
DRMS-003721	1.05	87.52	23.97	102.4	128	39.5	28.5	862.4	62	12.1	2.2	10.6	4.4	18.8	21	55	8.65	37	07	096.28	3	29.0	80	96.2	.043	1.2	79	.012	14	.6	19	57	.7	12	7.5	
GRMS-004214	84	33.22	21.73	56.3	259	18.1	8.0	583.3	36	89.1	8	162.0	1.7	44.9	31	96	4.59	71	.06	.071.18	4	43.3	.59	177.9	082	1.1	62	.026	.25	.4	24	70	7	09	10.3	
JESS-003631	1.90	217.62	29.11	131.3	252	56.0	57.1	1033.6	99	94.7	3.8	23.8	11.6	169.5	13	1.38	8.14	42	.08	.097.44	4	33.5	.82	188.9	.054	1.2	78	.019	.31	5.6	48	34	5	25	8.6	
JESS-003611	45	82.66	24.03	107.8	42	50.8	50.5	1775.5	60	7.0	3.2	2.5	12.2	48.2	15	.16	1.16	51	.19	.051.35	5	49.1	1.22	87.7	.049	1.3	23	.018	40	5	40	21	1	64	8.9	
SDMS-004162	2.31	227.42	46.38	70.0	78	73.8	37.8	490.4	79	29.2	2.5	140.0	4.0	16.2	23	1.15	163.90	33	.05	.073.25	3	22.8	.72	52.5	.023	1.1	96	.008	19	1.2	.31	55	6	17	33	5.4
DRMS-003721	1.05	87.52	23.97	102.4	128	39.5	28.5	862.4	62	12.1	2.2	10.6	4.4	18.8	21	55	8.65	37	07	096.28	3	29.0	80	96.2	.043	1.2	79	.012	14	.6	19	57	.7	12	7.5	
GRMS-004214	84	33.22	21.73	56.3	259	18.1	8.0	583.3	36	89.1	8	162.0	1.7	44.9	31	96	4.59	71	.06	.071.18	4	43.3	.59	177.9	082	1.1	62	.026	.25	.4	24	70	7	09	10.3	
JESS-003631	1.90	217.62	29.11	131.3	252	56.0	57.1	1033.6	99	94.7	3.8	23.8	11.6	169.5	13	1.38	8.14	42	.08	.097.44	4	33.5	.82	188.9	.054	1.2	78	.019	.31	5.6	48	34	5	25	8.6	
JESS-003611	45	82.66	24.03	107.8	42	50.8	50.5	1775.5	60	7.0	3.2	2.5	12.2	48.2	15	.16	1.16	51	.19	.051.35	5	49.1	1.22	87.7	.049	1.3	23	.018	40	5	40	21	1	64	8.9	
SDMS-004162	2.31	227.42	46.38	70.0	78	73.8	37.8	490.4	79	29.2	2.5	140.0	4.0	16.2	23	1.15	163.90	33	.05	.073.25	3	22.8	.72	52.5	.023	1.1	96	.008	19	1.2	.31	55	6	17	33	5.4
DRMS-003721	1.05	87.52	23.97	102.4	128	39.5	28.5	862.4	62	12.1	2.2	10.6	4.4	18.8	21	55	8.65	37	07	096.28	3	29.0	80	96.2	.043	1.2	79	.012	14	.6	19	57	.7	12	7.5	
GRMS-004214	84	33.22	21.73	56.3	259	18.1	8.0	583.3	36	89.1	8	162.0	1.7	44.9	31	96	4.59	71	.06	.071.18	4	43.3	.59	177.9	082	1.1	62	.026	.25	.4	24	70	7	09	10.3	
JESS-003631	1.90	217.62	29.11	131.3	252	56.0	57.1	1033.6	99	94.7	3.8	23.8	11.6	169.5	13	1.38	8.14	42	.08	.097.44	4	33.5	.82	188.9	.054	1.2	78	.019	.31	5.6	48	34	5	25	8.6	
JESS-003611	45	82.66	24.03	107.8	42	50.8	50.5	1775.5	60	7.0	3.2	2.5	12.2	48.2	15	.16	1.16	51	.19	.051.35	5	49.1	1.22	87.7	.049	1.3	23	.018	40	5	40	21	1	64	8.9	
SDMS-004162	2.31	227.42	46.38	70.0	78	73.8	37.8	490.4	79	29.2	2.5	140.0	4.0	16.2	23	1.15	163.90	33	.05	.073.25	3	22.8	.72	52.5	.023	1.1	96	.008	19	1.2	.31	55	6	17	33	5.4
DRMS-003721	1.05	87.52	23.97	102.4	128	39.5	28.5	862.4	62	12.1	2.2	10.																								

Sample type: SDIL. Samples beginning "RE" are Reruns and "RRE" are Reject Reruns.

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
GSMS-004211	8.77	.1	.34	28.6	2.3	1.2	.05	6.8	8.80	53.9	.02	1	45.4
JESS-003614	11.20	.1	.21	58.3	4.7	1.7	.05	7.1	9.30	44.1	.03	<1	55.9
SDWS-003820	.50	<.1	.17	2.9	1.2	.2	.01	8.8	3.53	28.9	.02	<1	76.3
DHSS-003734	9.12	.1	.91	34.4	2.8	1.4	.05	1.5	6.12	60.5	.03	<1	53.0
SDWS-004164	8.31	.1	2.32	64.5	2.2	3.1	.13	1.5	3.39	29.0	.02	<1	21.5
JESS-003626	7.79	<.1	1.57	58.7	2.1	1.7	.10	1.8	7.30	65.6	.03	<1	39.7
GSMS-004221	2.39	<.1	1.09	20.0	.4	2.1	.05	.6	2.19	18.7	.02	<1	10.4
GSMS-004199	1.03	.1	.47	5.4	9.1	1.3	<.01	43.6	15.52	30.3	.05	<1	10.7
JESS-003758	.61	<.1	.11	3.4	1.4	.4	<.01	5.1	4.84	22.7	.02	1	60.1
RSHS-004094	1.07	<.1	.38	6.5	.2	.6	.01	1.5	1.47	31.1	.02	<1	15.3
SDWS-004176	2.25	<.1	.83	17.7	.4	.7	.06	.5	2.26	24.6	.02	<1	5.7
DHSS-003730	5.39	<.1	1.45	29.5	2.2	2.2	.05	1.0	6.04	57.3	.03	<1	39.6
GSMS-004224	4.06	<.1	1.93	26.2	1.5	2.2	.02	.8	3.93	38.1	.03	<1	31.3
RSHS-004103	.53	<.1	.25	5.0	.3	.4	.05	1.4	1.84	18.4	<.02	1	11.8
JESS-003615	11.08	.1	.13	87.8	7.3	3.0	.08	8.4	8.79	33.4	.04	<1	57.5
DHSS-003737	6.84	<.1	1.25	47.6	2.1	2.0	.07	.9	5.12	47.0	.02	<1	36.6
DHSS-003741	5.83	<.1	1.59	27.2	1.9	1.5	.04	1.0	4.26	29.0	.03	<1	32.1
RE DHSS-003730	5.44	<.1	1.47	28.9	2.1	2.2	.05	1.1	5.97	55.9	.03	<1	38.8
RSHS-004075	7.32	.1	1.34	49.5	1.7	2.3	.16	1.2	8.74	59.6	.04	1	23.8
RSHS-004081	2.31	<.1	1.18	12.3	.9	1.3	.03	.5	3.42	44.4	.04	<1	31.9
JESS-003621	7.06	<.1	.88	30.1	1.6	.9	.05	1.3	5.19	60.9	.03	1	48.4
GSMS-004198	12.48	.1	.52	99.3	8.3	2.3	.17	11.2	16.87	67.2	.03	<1	61.9
SDWS-004167	7.99	<.1	2.65	62.4	1.7	3.2	.21	1.6	4.10	43.0	.04	<1	26.2
DHSS-003721	4.97	<.1	1.35	21.8	1.9	1.0	.06	1.7	6.22	51.5	.03	<1	52.9
GSMS-004214	4.36	<.1	2.60	39.7	2.0	6.7	.11	1.4	3.44	32.9	.19	<1	12.5
JESS-003631	10.13	<.1	1.48	59.3	2.7	1.9	.11	3.5	12.88	108.1	.06	<1	34.1
JESS-003611	10.74	<.1	.27	55.4	4.4	.9	.02	4.3	8.91	63.5	.03	<1	50.6
SDWS-004162	7.14	.1	.51	34.9	2.1	.9	.05	3.0	8.23	59.2	.03	<1	23.9
RSHS-004090	4.20	<.1	1.13	27.8	1.6	1.0	.11	2.1	12.42	58.9	.06	<1	40.9
JESS-003642	.76	<.1	.21	5.4	.9	.3	.01	2.7	3.98	26.1	.03	<1	39.0
RSHS-004107	.63	<.1	.40	5.1	1.0	.3	.02	1.9	4.10	30.8	.02	<1	41.1
SDWS-004183	4.76	<.1	1.25	28.1	.7	2.4	.04	.5	2.20	29.5	.02	<1	15.0
SDWS-004179	4.84	<.1	1.90	34.0	2.1	5.7	.10	1.5	4.28	40.5	.04	<1	29.6
SDWS-004170	5.91	<.1	1.52	50.9	1.2	1.5	.13	.8	3.89	32.0	.03	<1	20.9
STANDARD DS2	2.48	.1	2.07	15.3	3.0	25.7	.02	4.2	8.08	30.5	5.22	2	13.9

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE #	ELEMENTS																																							
	Al	Ca	Fe	Mn	Ni	Pb	Sr	Ti	V	Zn	As	B	Co	Cu	K	Li	Mg	Mo	P	Sb	Se	Si	Te	U	W	X	Y	Zr												
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm												
RSMS-004053	37	371.35	5.32	52.0	106	45.5	33.7	487	4.94	5.9	2.5	5.0	12.3	70.7	.09	14	4.80	48	90	029	25.6	73.8	1.03	55.6	035	1.2	98	022	31	4.4	35	13	1	09	7.6					
SDMS-004181	51	26.06	4.32	38.9	185	15.1	7.6	395	2.00	15.1	7	3.1	1	13.9	.08	33	1.04	28	05	089	11.6	31.3	.44	60.4	015	2.1	22	019	16	3	18	62	3	< 02	4.4					
JLSS-003630	2.57	399	06	3.26	117.3	162	72.2	62.8	772	7.81	63.7	3.2	19.7	9.3	128.0	.21	1.17	63	58	47	06	106	39.8	38.6	83	153.9	075	1.2	73	030	31	7.1	44	37	1.0	77	8.2			
RSMS-003635	1.63	117	90	16.77	68.5	275	36.1	29.3	423	4.76	29.0	1.7	87.2	3.8	74.4	.70	.73	16.03	46	03	090	26.0	24.4	63	167.5	066	2.1	90	025	30	5.0	34	66	.5	97	7.0				
RSMS-004065	2.17	21.96	11.1	15.1	115	13.8	41.5	703	1.55	10.1	1.8	13.4	1.6	31.6	.18	70	12.34	45	04	055	19.6	26.5	55	82.3	055	1.2	39	011	19	1.0	32	16	5	1.01	7.1					
GSMS-004207	2.05	211	74	75.67	97.5	122	57.4	90.2	3120	5.36	14.9	3.2	10.8	5.7	30.8	.12	49	1.81	38	05	082	26.2	28.0	63	111.7	021	< 1.2	53	011	11	< 2	19	55	8	16	7.0				
RSMS-004061	1.66	47	01	11.74	66.7	51	25.1	13.4	407	3.93	8.4	1.6	6.3	3.3	21.6	.16	82	3.93	43	05	067	26.5	32.6	61	77.0	050	1.1	99	017	13	< 2	21	33	8	61	6.1				
JLSS-003637	2.35	54	07	20.03	69.5	78	25.6	27.6	568	3.10	21.2	4.3	27.5	3.2	39.4	.24	.30	3.22	32	37	073	37.3	27.0	74	84.9	060	1.1	90	017	20	3	30	59	4	16	5.6				
GSMS-004192	41	50	86	20.25	12.3	82	41.7	25.8	895	3.63	11.2	2.5	2.0	16.4	55.0	.21	1.83	56	28	38	035	33.0	28.1	63	100.5	018	2.1	60	031	24	< 2	41	17	< 1	62	4.2				
GSMS-004201	2.24	194	39	19.33	95.5	97	75.3	63.0	1027	5.02	19.3	3.9	55.0	10.3	149.9	.26	51	14.90	45	46	071	33.0	40.8	1.25	98.3	032	1.3	49	037	48	< 2	43	24	6	30	9.3				
DRSS-003732	2.24	274	92	17.15	127.9	91	129.5	129.1	5162	5.85	13.3	3.6	17.0	7.8	35.6	.26	.68	4.79	51	05	066	26.1	60.1	1.15	203.5	072	1.3	57	013	27	< 2	49	50	.5	19	9.0				
SDMS-004177	41	19	40	3.69	23.0	76	8.6	3.4	117	1.53	3.7	6	7.9	3	14.8	.13	.22	1.62	21	02	055	11.6	14.9	.25	53.5	037	1.1	08	022	13	< 2	17	47	4	08	4.6				
RSMS-004102	58	18	94	13.61	46.4	38	22.5	10.1	338	3.28	16.9	9	2.9	1.0	5.0	.08	.99	.16	17	02	093	10.9	18.1	.39	33.5	.006	< 1.1	29	007	02	< 2	03	23	4	03	4.3				
SDMS-003897	41	23	85	19.53	60.2	92	29.1	10.6	313	3.13	58.1	1.3	3.2	3.7	6.1	.03	.77	.13	16	.04	056	13.3	24.4	66	42.7	006	< 1.1	86	009	03	< 2	03	23	3	02	5.2				
GSMS-004036	74	256	94	14.21	131.3	155	117.1	104.7	1478	9.73	10.1	4.6	16.6	25.9	143.8	.21	.21	11.82	54	.38	098	21.3	60.0	1.71	104.0	.089	< 1.4	82	065	49	< 2	38	24	4	23	9.7				
RSMS-004080	1.37	20	05	33.00	95.2	336	21.1	10.3	507	3.95	11.8	9	5.0	.6	7.1	.22	.64	1.47	41	02	047	22.1	31.6	61	64.5	023	< 1.1	98	006	.06	< 2	11	44	.5	08	8.1				
RSMS-004095	40	37	00	21.80	91.0	64	46.9	21.4	970	4.21	14.5	7	2.5	7.7	7.8	.06	.47	.25	16	08	061	20.2	32.7	1.12	22.1	.004	< 1.2	21	005	.03	< 2	< 02	26	.2	07	5.7				
GSMS-004195	1.69	522	54	56.70	72.6	276	39.8	63.8	688	9.03	173.4	2.6	103.1	10.5	101.1	.13	.41	101.07	89	17	089	20.2	59.8	2.10	163.2	.119	< 1.4	40	061	76	< 2	62	12	2.3	26	12.1				
GSMS-004223	60	27	23	11.01	39.3	183	13.5	5.4	164	2.18	8.4	7	61.5	.1	42.2	.29	.44	5.54	39	05	046	17.8	25.3	34	76.6	023	< 1.1	22	010	.09	< 2	14	25	.3	33	6.9				
RE GSMS-004077	91	20	32	32.92	72.8	207	16.3	8.2	364	2.49	12.2	7	15.3	5.1	8.8	.21	.32	1.67	27	.10	059	25.1	18.1	.65	51.4	030	1.1	66	009	.06	< 2	.08	23	.3	09	4.8				
RSMS-004077	85	19	45	30.74	71.8	186	16.5	7.8	358	2.45	11.5	7	13.0	4.7	8.2	.18	.31	1.43	26	.10	057	23.7	16.0	.62	48.2	028	< 1.1	59	009	.06	< 2	.07	17	.3	08	4.6				
RSMS-004098	54	18	05	11.03	46.5	117	18.6	7.7	382	3.38	11.3	7	3.5	.3	3.7	.10	.67	.27	22	.01	131	10.3	23.5	.35	34.4	006	< 1.1	24	007	.03	< 2	.02	45	4	04	5.7				
JLSS-003610	58	113	24	7.90	30.3	87	42.0	45.6	711	5.15	2.7	1.0	6.7	4.9	189.2	.10	.08	2.37	127	.98	050	15.3	159.7	2.70	290.2	242	< 1.4	62	226	1.02	< 2	89	7	4	14	12.3				
JLSS-003619	38	41	76	30.51	125.1	122	44.9	16.4	222	4.01	28.6	1.6	6.1	5.4	30.3	.09	5.01	.40	11	60	070	23.5	9.2	.37	46.7	002	< 1.1	96	007	.04	< 2	.02	68	3	14	2.3				
RSMS-004071	1.41	75	97	16.53	69.7	285	23.9	22.3	1350	4.07	67.6	1.2	8.6	1.0	54.7	.36	.66	9.52	38	.06	166	20.7	23.2	.52	141.0	038	1.1	91	019	.18	< 2	.25	59	6	20	6.5				
JLSS-003638	16	2	56	82	4.8	48	1.0	6	14	23	.3	1	5	< 1	5.2	.04	.04	.22	7	02	029	1.3	< 5	03	12.8	009	< 1.1	15	018	.03	< 2	.04	22	1	< 02	.7				
RSMS-004068	1.90	170	72	18.83	63.1	166	30.5	17.8	453	7.22	96.6	2.0	246.9	4.1	88.6	.10	.86	23.49	55	03	101	24.8	31.8	55	112.3	059	1.2	47	028	.20	27.5	.26	27	1.3	77	9.2				
DRSS-003718	1.25	102	46	39.31	97.2	230	30.3	17.6	528	6.02	29.4	2.5	5.0	2.4	50.0	.22	1.81	6.31	48	04	106	34.3	48.8	78	83.6	049	1.2	53	016	12	< 2	23	59	9	12	8.4				
JLSS-003652	26	19	08	10.00	27.3	51	9.1	5.4	281	1.35	7.6	1.5	1.2	9	24.7	.03	.30	.26	14	40	070	7.2	11.5	16	46.7	017	< 1.1	11	035	02	< 2	.02	20	5	07	3.1				
RSMS-004058	1.16	57	31	15.87	85.4	37	38.9	27.8	924	4.47	31.2	1.2	5.5	1.8	12.6	.19	.68	2.62	41	03	060	21.9	30.7	63	78.4	030	1.2	52	006	11	< 2	18	40	5	06	7.4				
GSMS-004140	5.13	50	55	46	10	102.8	157	16.6	18.9	792	3.22	3.6	2.0	6.7	6.8	106.6	.53	.32	6.67	53	68	057	33.6	30.1	88	160.5	063	1.2	83	042	.36	< 2	28	36	.1	09	7.8			
GSMS-004034	1.06	64	79	1.28	56.9	51	81.0	27.5	677	3.62	1.8	7	4.9	5.4	104.4	.07	.06	2.01	110	.77	047	20.2	289.5	2.80	141.3	173	< 1.3	68	048	.53	2.1	.42	7	3	10	11.5				
RSMS-004074	22	9	22	1.96	5.3	40	1.8	2.3	128	.47	9	3	1.4	< 1	7.4	.05	.05	1.64	8	.03	045	2.0	4.3	04	17.2	.007	< 1.1	31	019	02	< 2	03	20	2	< 02	1.4				
RSMS-004108	46	18	20	10.94	31.4	76	14.1	9.9	319	1.84	8.3	1.3	< 2	.7	7.0	.05	.44	.29	14	.05	069	5.7	13.0	.29	47.2	009	< 1.1	21	015	.04	< 2	.04	22	4	02	3.6				
STANDARD DS2	13.78	130	89	31	40	164.8	257	37.3	12.8	827	3.15	63.3	20.5	206.3	3.4	30.0	11.47	9.33	10	60	81	55	082	16.5	170.9	60	142	9	114	2	1.75	041	16	6.7	1.86	239	2	4	1.86	6.0

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
RSHS-004053	6.49	<.1	.27	70.3	4.4	5.6	.01	4.5	19.44	52.0	.09	1	23.3
SDWS-004181	2.95	<.1	.73	27.2	.3	2.0	.09	.5	2.23	22.1	.02	<1	13.1
JESS-003630	8.56	.1	1.95	51.8	2.6	2.4	.18	4.1	14.94	91.0	.06	1	26.8
JESS-003635	5.59	.1	2.99	54.6	2.0	2.3	.19	3.2	6.24	50.5	.09	1	19.1
RSHS-004065	6.31	<.1	2.20	42.5	1.4	.9	.11	2.5	7.10	45.7	.03	<1	25.8
GSMS-004209	9.55	<.1	.67	19.4	1.7	.9	.04	2.6	6.04	55.2	.03	1	50.0
RSHS-004061	5.50	<.1	1.42	21.2	1.5	.9	.10	1.3	4.87	51.6	.03	<1	27.7
JESS-003637	7.50	<.1	2.52	38.0	2.1	1.7	.10	1.8	16.69	71.8	.03	1	56.3
GSMS-004192	13.65	<.1	.16	33.3	4.3	1.4	.01	7.5	8.07	66.0	.02	<1	34.4
GSMS-004201	10.08	<.1	.73	62.7	3.6	2.0	.10	4.0	10.87	67.9	.03	<1	60.4
DHSS-003732	10.23	.1	.92	38.1	4.0	1.6	.03	3.1	12.74	59.8	.04	<1	118.1
SDWS-004177	4.21	<.1	.92	27.8	.5	.9	.08	.7	1.86	20.2	.02	<1	7.5
RSHS-004102	.67	<.1	.23	3.4	.3	.3	.05	1.6	2.77	19.9	.02	<1	22.2
SDWS-003807	.65	<.1	.29	4.8	1.0	.3	.02	3.4	4.30	25.6	.03	<1	45.4
GSMS-004036	6.34	.1	.48	56.1	5.6	2.2	.35	6.7	16.54	43.5	.09	<1	52.2
RSHS-004080	2.30	<.1	1.22	12.4	.8	1.5	.03	.3	3.41	41.7	.04	<1	29.3
RSHS-004095	.35	.1	.11	2.7	1.3	.1	<.01	4.8	2.97	35.8	.02	<1	69.5
GSMS-004195	13.36	.2	.40	84.5	7.0	4.5	.35	7.9	9.74	43.4	.04	<1	49.2
GSMS-004223	3.36	<.1	.87	27.9	.3	3.2	.04	.4	3.47	32.4	.02	<1	9.4
RE GSMS-004077	1.83	<.1	1.00	9.7	1.3	.8	.01	1.2	5.62	44.9	.03	1	24.0
RSHS-004077	1.73	<.1	.97	9.2	1.3	.6	.01	1.2	5.27	41.8	.03	<1	23.4
RSHS-004098	.76	<.1	.23	5.1	.2	.3	.07	.7	2.03	18.5	.02	<1	19.3
JESS-003610	8.12	.1	.29	110.6	6.9	1.5	.26	2.5	5.41	32.2	.05	<1	29.9
JESS-003649	.38	<.1	.13	2.6	3.1	.4	.03	5.9	14.50	35.5	.04	<1	22.2
RSHS-004071	4.24	<.1	1.89	40.8	1.0	1.8	.15	.9	4.46	40.2	.04	<1	15.9
JESS-003638	.73	<.1	.06	3.9	.1	.2	.03	.1	.24	2.5	<.02	<1	.5
RSHS-004068	5.64	.1	1.71	36.0	2.1	2.5	.17	2.3	7.35	45.7	.05	<1	16.6
DHSS-003748	6.12	.1	2.09	24.4	1.5	4.3	.11	1.8	8.91	63.2	.04	<1	26.2
JESS-003652	.37	<.1	.52	3.0	.9	.3	.04	3.7	6.06	11.8	.02	<1	11.7
RSHS-004058	6.37	.1	1.02	19.2	1.2	.8	.02	.5	4.45	50.3	.03	<1	55.1
GSMS-004190	6.41	<.1	2.56	57.3	4.5	2.3	.08	1.0	14.79	75.8	.06	<1	31.3
GSMS-004034	4.87	.1	.52	75.6	6.7	2.4	.02	6.0	8.63	37.7	.06	<1	48.1
RSHS-004074	.39	<.1	.09	2.7	.1	.2	.04	.1	.74	3.7	<.02	<1	.6
RSHS-004108	1.01	<.1	.29	6.1	.4	.2	.03	1.0	3.68	11.0	<.02	<1	16.7
STANDARD DS2	2.46	<.1	2.06	15.3	3.0	25.4	.02	4.8	8.22	30.6	5.44	1	14.0

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
JESS-003619	1.05	40.28	10.32	62.8	53	25.6	27.6	1012	3.57	5.5	1.3	3.4	1.6	13.5	.13	.68	1.36	32	.04	.073	21.0	27.0	.43	61.3	.025	1	1.52	.010	.14	.2	.21	33	.5	.06	5.8
RSMS-004057	1.12	110.68	13.15	66.8	61	50.8	24.9	530	3.79	18.6	2.1	4.4	2.4	18.7	.31	.63	4.95	55	.06	.077	19.3	43.0	.83	78.9	.056	1	3.00	.009	.29	.5	.31	65	.8	.06	8.8
DHSS-003745	1.31	104.80	37.09	83.9	188	25.1	19.6	776	4.68	31.2	1.7	5.1	5.7	53.8	.23	.67	6.61	37	.04	.088	23.5	29.7	.61	123.1	.039	1	2.13	.018	.15	.3	.21	16	1.0	.10	6.8
DHSS-003740	1.00	49.29	34.54	95.7	90	27.7	17.3	633	2.98	40.5	1.5	4.0	2.5	12.0	.21	.59	2.47	44	.07	.097	15.7	41.7	.67	65.1	.060	1	2.49	.017	.16	.6	.20	35	.8	.04	7.6
JESS-003759	.59	89.33	53.17	113.7	140	52.4	31.1	498	5.30	85.0	3.7	13.1	17.0	30.5	.07	2.66	.74	15	.02	.075	13.1	31.0	.82	55.6	.001	<1	2.21	.011	.05	<.2	.05	21	.4	.09	5.8
GSMS-004208	3.80	376.82	32.46	103.1	296	71.1	127.3	2523	13.26	478.9	4.7	99.3	18.8	15.9	.06	3.09	22.15	37	.01	.109	17.3	34.9	.59	64.2	.019	<1	2.50	.009	.16	.5	.60	22	1.9	.55	13.1
RSMS-004072	1.33	12.74	29.50	45.5	236	10.5	4.9	216	3.53	11.4	.8	2.8	1.5	7.4	.12	.50	1.83	45	.02	.042	19.6	24.9	.32	53.6	.026	1	1.54	.004	.05	.5	.11	69	.5	.19	8.4
SDWS-004158	.84	60.07	14.16	73.8	48	34.4	19.3	568	3.32	11.4	1.3	5.5	5.8	13.3	.16	.59	2.39	48	.07	.051	19.5	50.3	.93	65.6	.077	1	2.41	.012	.14	.5	.22	37	.8	.08	7.1
RE SDWS-004158	.84	62.96	14.61	77.3	47	35.8	20.6	589	3.49	11.8	1.4	6.4	6.2	13.8	.15	.62	2.45	51	.07	.053	20.4	48.0	.97	68.3	.080	1	2.49	.012	.14	.5	.23	42	.7	.04	7.4
SDWS-004204	1.30	142.42	8.11	71.4	383	32.4	23.9	736	13.68	4.8	2.3	8.1	19.5	76.0	.03	1.13	4.69	31	.01	.125	16.5	28.3	.61	107.6	.068	1	2.99	.032	.47	<.2	.34	34	1.1	.14	8.5
SDWS-004180	.39	21.45	11.21	36.7	124	14.3	7.3	397	2.03	14.4	.6	5.5	.2	12.8	.08	.30	1.36	27	.04	.098	9.8	32.5	.40	49.2	.011	1	1.16	.018	.11	.2	.15	65	.3	.05	4.1
DHSS-003722	1.17	39.83	16.93	105.4	103	28.9	17.2	519	4.03	9.2	1.5	3.2	3.2	10.9	.24	.54	1.09	38	.06	.087	18.4	29.2	.62	74.3	.038	1	2.64	.011	.24	.4	.31	79	.7	.07	8.8
RSMS-004082	1.13	14.76	28.18	58.6	258	11.4	5.7	249	2.18	7.9	.7	1.7	.2	6.5	.13	.52	1.14	28	.02	.057	15.8	15.4	.32	45.2	.012	1	1.26	.011	.06	.3	.09	35	.5	.03	6.0
STANDARD DS2	13.35	130.16	30.80	164.8	257	37.0	12.8	825	3.16	63.7	20.9	194.8	3.3	29.7	11.45	9.56	10.77	82	.55	.083	16.4	168.7	.60	144.1	.115	2	1.77	.042	.16	6.9	1.84	248	2.6	1.90	6.2

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
JESS-003619	6.54	<.1	.89	27.0	.9	.7	.06	.8	3.73	42.0	.03	<1	28.6
RSHS-004057	6.15	<.1	2.26	45.9	2.4	1.4	.09	1.8	5.39	39.0	.03	1	44.9
DHSS-003745	4.97	<.1	1.34	24.3	1.9	1.4	.11	2.9	4.76	49.3	.04	<1	24.8
DHSS-003740	6.08	<.1	1.60	28.1	2.2	1.3	.06	1.4	4.99	31.2	.03	1	34.4
JESS-003759	.82	<.1	.04	4.0	1.5	.4	.07	6.4	3.46	22.0	.02	<1	67.8
GSMS-004208	11.97	.1	.16	23.1	4.1	1.7	.12	8.7	4.95	37.0	.05	<1	24.7
RSHS-004072	2.04	<.1	2.61	11.4	.9	1.4	.04	.5	2.40	36.2	.03	<1	12.9
SDWS-004158	4.59	<.1	1.76	21.7	3.0	1.5	.04	3.0	4.51	40.4	.03	<1	42.8
RE SDWS-004158	4.68	<.1	1.73	22.1	3.1	1.4	.04	2.8	4.77	42.6	.03	2	45.1
GSMS-004204	4.74	.1	1.13	48.0	2.3	1.5	.56	5.8	3.53	33.7	.03	<1	30.8
SDWS-004180	2.70	<.1	.61	22.4	.3	1.4	.11	.4	1.87	19.5	.02	<1	11.9
DHSS-003722	4.69	<.1	2.50	43.2	2.0	1.3	.08	2.3	4.50	35.2	.03	<1	35.5
RSHS-004082	1.93	<.1	.40	10.9	.4	.9	.04	.2	2.74	30.0	.04	1	16.3
STANDARD DS2	2.42	<.1	1.99	15.1	3.1	25.4	.02	4.3	8.10	31.1	5.61	1	14.1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



ACME ANALYTICAL

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2316 FILE # 9902035

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ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
AF-1141	.58	6.48	7.97	12.2	29	4.6	2.0	65	.75	229.1	.8	36.1	6.1	6.3	.06	.59	.16	2	.01	.011	9.2	22.5	.01	10.8	<.001	<1	.20	.004	.04	5.7	.02	<5	<.1	<.02	.4
99ACTR-001006	1.24	11.52	8.30	35.5	27	5.7	4.6	421	.60	8.8	.4	1.2	5.4	51.7	.09	.40	.24	<2	2.13	.010	8.5	20.4	.05	22.1	<.001	<1	.24	.016	.08	4.9	.02	<5	<.1	<.02	.6
99GSMR-001224	.55	5.36	1.64	5.5	23	3.1	.7	230	.58	7.3	<.1	.9	1.3	1.3	.02	.12	.11	<2	.01	.002	.6	28.6	.01	7.1	<.001	<1	.06	.004	.01	6.7	<.02	<5	<.1	<.02	.1
99MDBR-001251	.47	25.09	22.98	60.1	64	39.3	12.5	322	4.07	5.3	1.3	1.2	15.7	8.7	.05	.37	.58	14	.05	.025	26.0	32.8	1.09	63.0	.007	<1	2.38	.019	.19	.5	.06	14	.1	.04	6.1
AF-1127	.23	15.67	21.26	51.4	38	29.7	12.7	483	3.07	4.3	.9	<.2	6.5	25.3	.04	.66	.16	10	1.41	.011	8.4	22.3	.53	37.6	.007	<1	1.37	.029	.16	1.5	.03	8	.1	.02	3.7
AF-1106	.25	16.84	12.66	44.0	35	32.4	11.8	726	4.03	3.0	1.4	1.1	12.0	195.8	.03	.21	.37	10	4.49	.021	27.6	21.1	.57	55.1	.004	<1	1.76	.009	.19	<.2	.05	17	<.1	.06	3.9
AF-1113	.34	39.43	17.06	95.9	16	35.7	17.0	250	3.62	4.6	2.1	.5	9.9	21.1	.05	.39	.62	10	.02	.031	12.2	17.2	.44	55.0	.002	<1	1.46	.009	.24	.4	.06	17	<.1	.05	3.8
AF-1121	.82	5.92	8.51	9.4	43	8.4	3.5	266	1.34	5.9	.8	.4	4.4	105.2	.04	.56	.14	3	9.12	.009	11.5	12.2	.19	20.0	.001	<1	.52	.007	.06	2.9	.04	7	<.1	.04	1.0
AF-1111	.42	19.47	36.74	71.2	29	15.0	10.7	983	2.06	5.9	.9	1.1	6.3	16.5	.10	.55	.20	5	.10	.012	10.0	12.9	.11	33.8	.001	<1	.65	.019	.11	3.0	.04	13	.3	.03	1.3
AF-1117	.90	22.85	38.17	107.2	514	34.6	15.5	1522	3.59	231.5	1.2	17.7	11.5	136.2	.23	8.10	.30	6	2.94	.023	15.2	10.4	.11	51.6	.002	<1	.63	.014	.14	.8	.07	21	.1	.04	1.2
10	.42	10.17	18.10	33.3	63	7.6	3.8	265	1.68	241.6	.5	7.3	6.0	40.8	.04	3.52	.18	3	1.27	.015	11.3	16.7	.03	27.3	.001	<1	.33	.031	.11	4.4	.05	10	.2	.02	.7
AF-1119	.96	36.43	10.85	63.6	45	30.4	14.5	500	3.74	26.9	1.4	1.4	11.1	15.3	.04	.61	.44	11	.23	.032	19.2	16.4	.13	46.8	.004	1	.68	.014	.17	1.9	.08	11	.3	.17	1.3
AF-1124	.86	28.07	37.21	80.7	83	39.6	8.8	222	3.62	17.6	2.1	1.9	11.1	11.0	.04	1.52	.56	19	.02	.013	13.4	33.9	.90	60.7	.009	<1	2.05	.025	.18	.5	.06	17	.3	.09	4.9
RE AF-1124	.83	28.45	37.46	80.5	84	39.7	8.6	224	3.63	17.3	2.2	1.2	11.4	10.7	.04	1.51	.57	19	.02	.013	13.6	35.7	.93	63.9	.010	<1	2.15	.026	.18	.4	.06	16	.3	.08	4.8
99MDBR-001253	.93	3.13	65.46	112.9	77	2.9	3.4	897	1.82	85.4	2.6	<.2	14.9	12.6	.62	4.37	.04	3	.23	.040	23.3	6.6	.05	77.4	.001	4	.61	.032	.28	1.6	.10	15	<.1	<.02	1.2
99ACTR-001007	.52	9.24	4.88	19.9	17	9.2	3.2	374	1.08	20.8	.6	.7	7.3	4.9	.05	.44	.08	6	.02	.011	11.2	29.3	.14	17.0	.001	<1	.45	.041	.06	5.7	.02	6	<.1	<.02	1.4
99ACTR-001003	1.08	3.29	2.70	16.6	25	7.4	1.5	138	.92	2.1	.2	<.2	.9	3.0	.02	.10	.08	3	.04	.007	.8	24.6	.16	5.0	.001	<1	.35	.005	.01	4.0	<.02	<5	<.1	<.02	1.0
99GSMR-001223	.52	3.44	10.68	3.3	27	2.7	.5	70	.41	1.8	<.1	<.2	.5	3.4	.01	.11	.08	<2	.08	.007	1.4	33.4	<.01	5.1	<.001	<1	.03	.007	.01	6.7	<.02	<5	<.1	<.02	.1
99ACTR-001001	1.02	4.12	2.97	30.2	15	18.5	3.0	480	2.77	1.9	.1	2.4	.2	125.2	.02	.09	.04	7	3.31	.001	1.6	23.9	.59	3.9	.002	<1	1.26	.004	.01	3.8	<.02	<5	<.1	.02	3.5
99ACTR-001005	.47	280.15	2.27	14.3	86	7.1	2.6	471	1.29	1.5	.6	2.0	8.2	39.9	.03	.14	.09	4	1.69	.011	10.7	23.5	.21	17.6	.001	<1	.57	.030	.07	5.0	.02	6	.2	<.02	1.5
99ACTR-001002	1.20	62.62	.55	80.1	42	47.8	8.5	332	3.88	.4	<.1	.9	.7	7.5	.02	.05	.03	11	.07	.021	<.5	31.8	.98	5.6	.003	1	1.97	.006	.01	4.3	<.02	7	<.1	<.02	5.4
99ACTR-001004	.47	5.77	1.98	12.3	21	7.4	1.4	240	1.07	.9	.2	2.1	2.5	4.4	.01	.15	.07	3	.28	.007	3.1	27.4	.18	5.9	.001	<1	.37	.019	.02	6.2	<.02	<5	<.1	<.02	1.1
99GSMR-001225	.99	8.24	36.01	106.0	40	40.9	9.3	440	4.69	1.1	<.1	<.2	2.3	3.7	.03	.14	.12	16	.25	.003	3.3	30.5	1.14	12.1	.005	1	2.36	.007	.01	3.3	<.02	5	<.1	<.02	6.0
STANDARD DS2	13.61	130.39	36.60	164.2	246	38.3	12.9	824	3.18	63.8	21.2	214.5	4.2	35.8	11.65	9.79	11.11	83	.56	.082	15.3	169.1	.63	144.0	.115	<1	1.81	.039	.16	7.5	2.15	261	2.3	1.82	6.0

Sample type: ROCK. Samples beginning "RE" are Reruns and "RRE" are Reject Reruns.

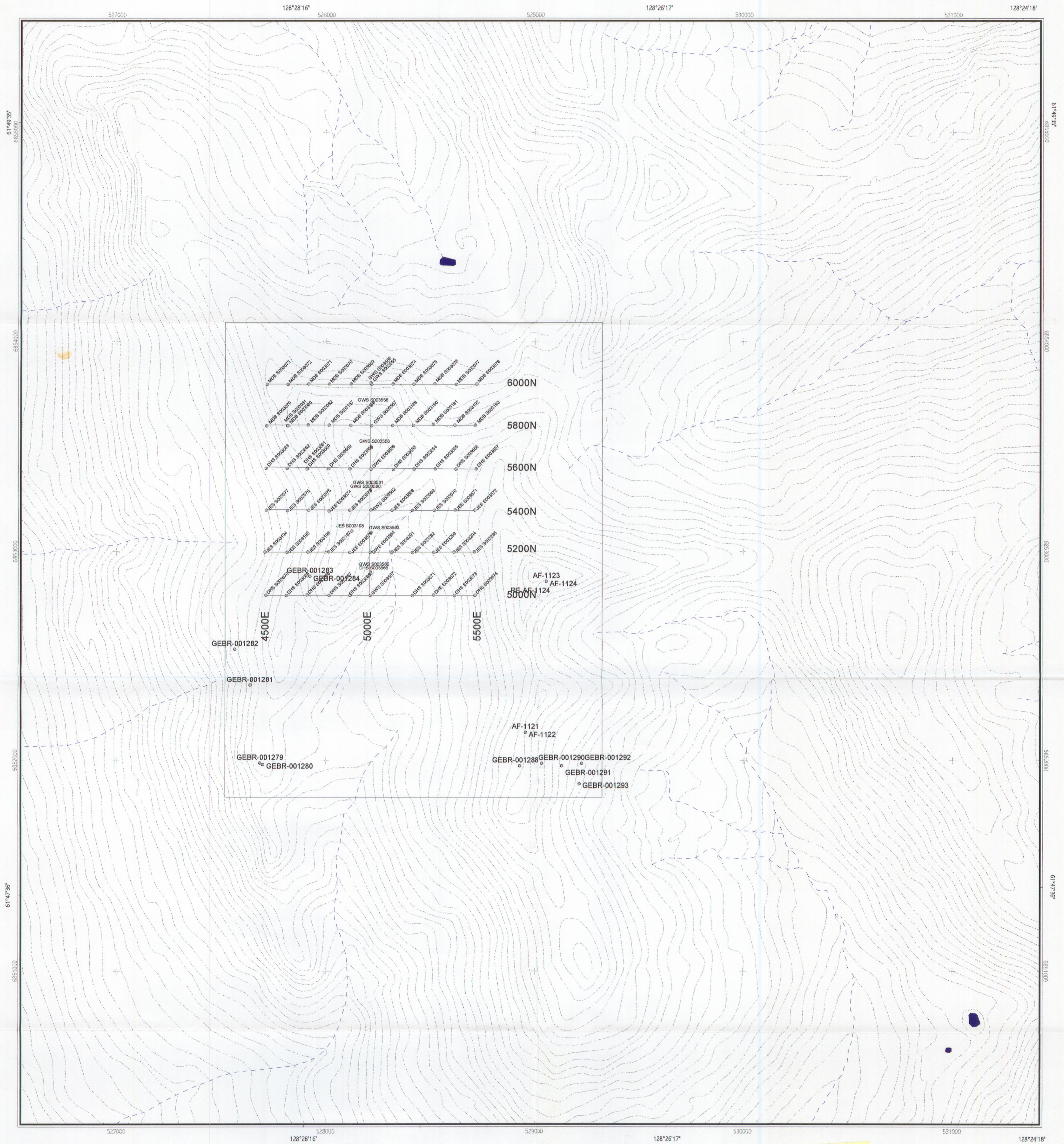
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
AF-1141	.19	<.1	.08	2.2	.5	.7	.03	2.3	.78	27.5	<.02	<1	.9
99ACTR-001006	.17	<.1	.06	3.4	.5	.5	.05	3.2	2.36	24.0	.02	<1	2.6
99GSMR-001224	.04	<.1	.06	.6	.4	1.1	.01	1.2	.21	2.0	<.02	<1	2.0
99MDBR-001251	.48	<.1	.15	9.8	2.3	.6	.04	7.6	3.50	59.1	.02	<1	78.6
AF-1127	.29	<.1	.06	6.8	2.4	.3	.04	5.9	3.28	22.4	.02	<1	31.9
AF-1106	.75	<.1	.11	8.9	3.2	.3	.01	6.2	6.47	64.1	.02	<1	35.4
AF-1113	.75	<.1	.07	11.3	2.2	.4	.03	3.5	4.10	35.4	.03	<1	22.4
AF-1121	.45	<.1	.03	2.7	1.5	.3	.01	3.4	8.77	26.9	.03	<1	10.0
AF-1111	1.31	<.1	.05	5.9	2.6	.3	.01	3.8	3.60	25.1	.03	<1	9.6
AF-1117	.68	<.1	.07	7.3	3.6	.4	.06	2.9	6.66	30.1	.04	<1	6.0
AF-1110	.47	<.1	.03	6.0	1.4	.3	.09	4.3	3.92	27.2	.02	<1	2.5
AF-1119	.44	<.1	.12	7.5	3.3	.6	<.01	9.1	3.44	46.1	.03	<1	8.0
AF-1124	.38	<.1	.12	8.2	2.0	.3	.13	10.5	1.78	23.0	.02	1	71.0
RE AF-1124	.37	<.1	.12	8.3	1.9	.4	.11	11.2	1.80	25.1	<.02	2	68.9
99MDBR-001253	.75	<.1	.07	15.9	1.9	.5	.01	10.6	7.10	57.6	.02	<1	1.9
99ACTR-001007	.28	<.1	.03	2.9	1.2	.3	<.01	6.0	1.28	29.8	<.02	1	6.3
99ACTR-001003	.04	<.1	.03	.4	.4	.2	<.01	1.9	.41	3.8	<.02	<1	10.2
99GSMR-001223	.02	<.1	.05	.3	.2	.3	<.01	1.7	.56	3.6	<.02	<1	.1
99ACTR-001001	.10	.1	.03	.5	2.0	.2	<.01	.1	6.69	6.2	.03	<1	37.2
99ACTR-001005	.17	<.1	.06	3.1	1.8	.3	.01	7.0	4.08	24.8	.03	<1	12.7
99ACTR-001002	.17	.2	.03	.6	1.5	.3	<.01	1.2	1.13	1.4	<.02	<1	62.5
99ACTR-001004	.09	<.1	.03	.9	.7	.4	<.01	1.8	.77	8.3	<.02	<1	11.1
99GSMR-001225	.16	.2	.03	.6	1.8	.2	<.01	1.0	.66	8.2	<.02	<1	57.2
STANDARD DS2	2.93	<.1	1.87	14.7	4.4	27.5	.03	5.8	6.35	31.4	7.08	<1	14.0

Sample type: ROCK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



500 0 500 1000 Meters

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Legend

- Sample Locations
 Claim Outline
 Water
 Stream

Hudson Bay Exploration & Dev. Co. Ltd.
Vancouver Office

Hat Claims Sample Locations

UTM Zone 9
NAD 83

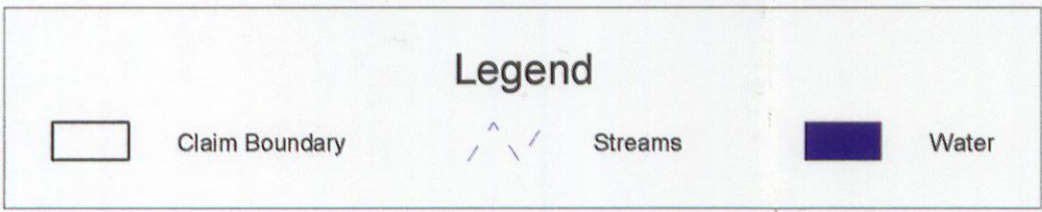
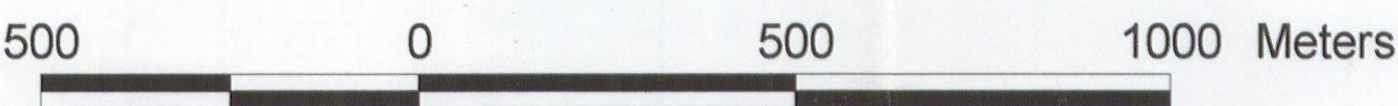
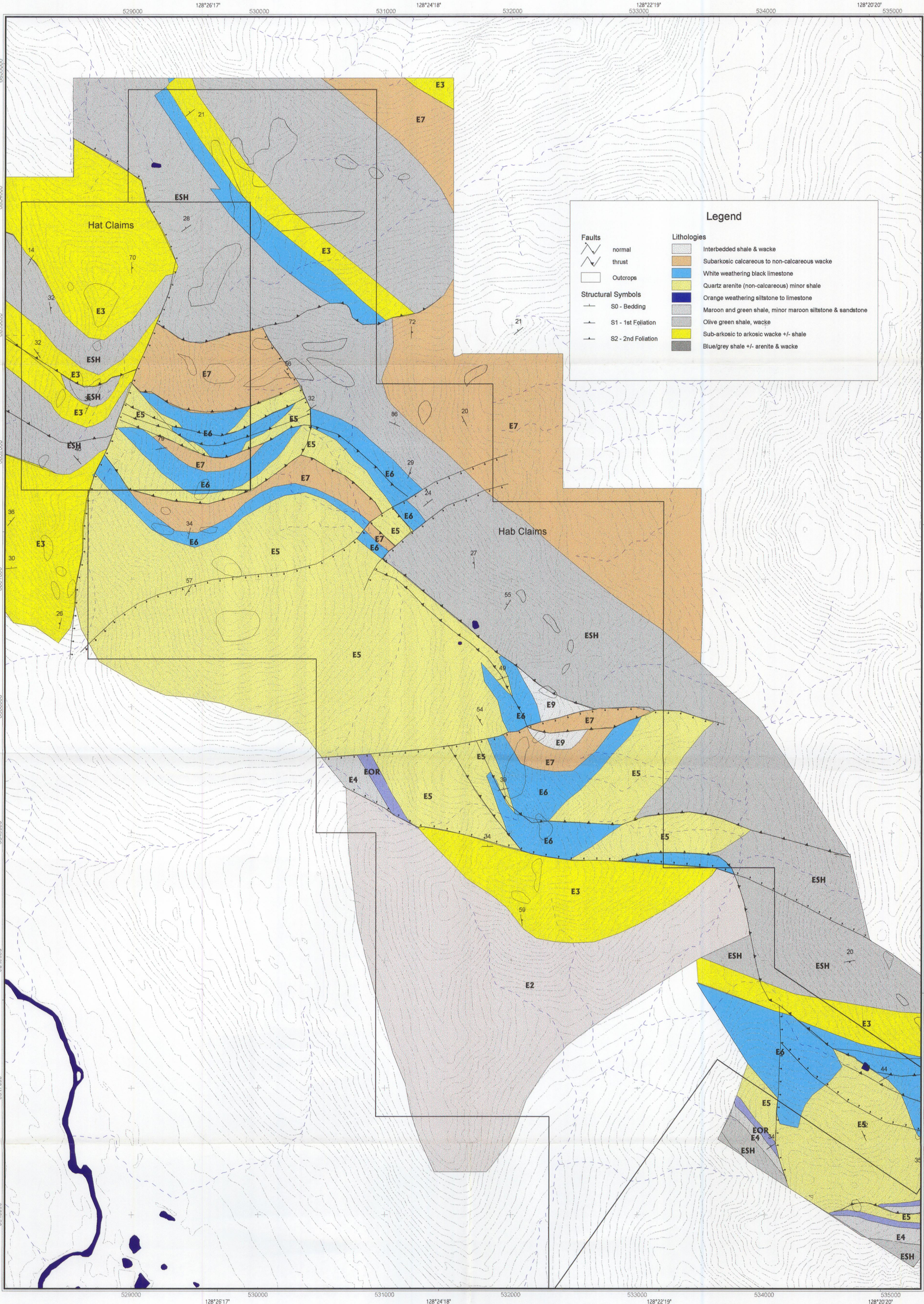
FIGURE -

AUTHOR: **MDB**

SCALE
1:10000

DATE: January 21, 2000

FILE: hat_assess_99.apr



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Vancouver Office

Hat/Hab

Geology

UTM Zone 9

NAD 83

FIGURE -

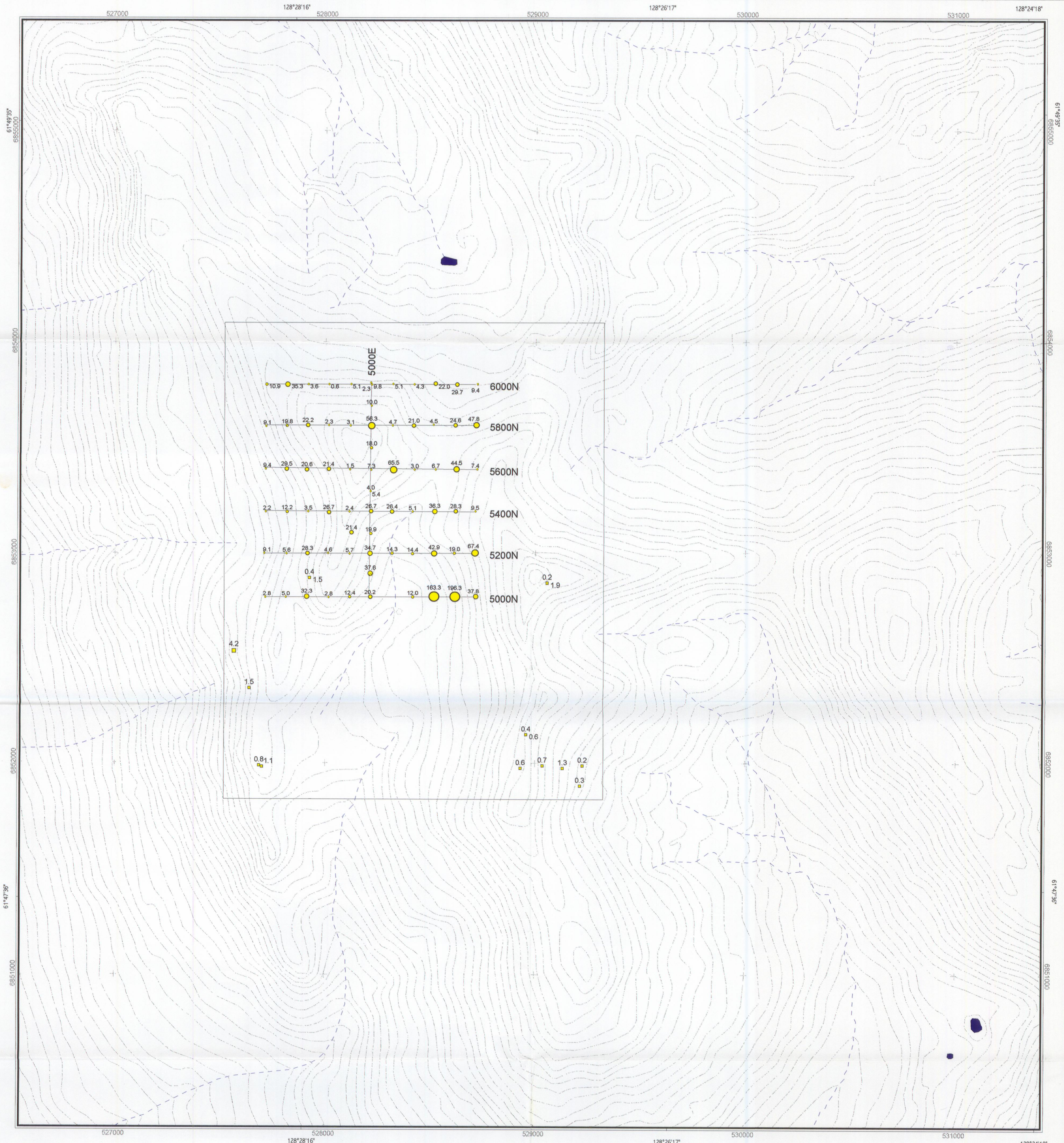
AUTHOR: MDB

SCALE

1:15000

DATE: January 21, 2000

FILE: Hab_assess_99.apr



094114 3

Gold in Rocks (ppb)			
■	0.2	■	1.4 - 2.6
■	0.2 - 0.7	■	2.6 - 7.4
■	0.7 - 1.4	■	7.4 - 16.1

Gold in Soil Samples	
●	0.2 - 10ppb
●	11 - 20ppb
●	21 - 30ppb
●	31 - 40ppb
●	41 - 50ppb
●	51 - 75ppb
●	76 - 150ppb
●	151 - 200ppb
●	101 - 150ppb
●	greater than 200ppb

Hudson Bay Exploration & Dev. Co. Ltd. Vancouver Office		
Hat Claims Soil Geochemistry UTM Zone 9 NAD 83		
FIGURE -	SCALE 1:10000	DATE: January 21, 2000
AUTHOR: MDB		FILE: hat_assess_99.apr

