



**BUREAU
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MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Kreft, Bernie**
1 Locust Place
Whitehorse Yukon Y1A 5G9 Canada

Submitted By: Bernie Kreft
Receiving Lab: Canada-Whitehorse
Received: August 30, 2019
Report Date: September 16, 2019
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI19000490.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 75

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Kreft, Bernie
1 Locust Place
Whitehorse Yukon Y1A 5G9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	75	Dry at 60C			WHI
SS80	75	Dry at 60C sieve 100g to -80 mesh			WHI
FA430	75	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	75	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	75	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
DISPL	75	Disposal of pulps			VAN
SHP01	75	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS


MAY LAI
Data Validation Specialist

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

WHI19000490.1

	Method	FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1
MADD-01	Soil	0.022	2	32	13	73	0.6	78	14	911	3.20	142	<2	23	<0.5	<3	5	72	0.15	0.074	11
MADD-02	Soil	0.006	1	19	12	67	<0.3	23	9	458	2.44	5	2	56	<0.5	<3	3	52	0.62	0.086	15
MADD-03	Soil	0.058	2	53	11	104	0.5	77	15	607	3.71	53	5	27	<0.5	<3	4	79	0.25	0.084	19
MADD-04	Soil	0.088	2	44	16	97	1.4	58	12	531	3.37	286	4	41	<0.5	5	3	60	0.19	0.086	20
MADD-05	Soil	0.013	3	42	12	53	0.6	18	9	522	2.60	35	<2	38	<0.5	<3	3	46	0.12	0.090	14
MADD-06	Soil	0.015	2	49	12	204	0.5	61	20	1244	3.15	60	<2	34	1.1	<3	4	57	0.16	0.088	17
MADD-07	Soil	0.021	3	51	19	143	0.7	37	15	747	3.57	47	2	45	0.5	<3	5	60	0.15	0.096	20
MADD-08	Soil	0.014	2	45	16	156	1.1	39	18	943	3.11	48	<2	35	0.7	<3	4	56	0.11	0.095	16
TMSD-01	Soil	0.011	1	24	14	76	<0.3	25	11	668	2.48	7	<2	41	<0.5	<3	4	56	0.46	0.081	16
TMSD-02	Soil	0.023	2	42	14	101	0.8	63	13	651	3.06	40	<2	79	<0.5	<3	4	62	0.60	0.079	15
TMSD-03	Soil	0.020	5	115	16	305	0.9	140	33	2393	4.46	91	6	38	1.2	<3	5	60	0.22	0.086	19
TMSD-04	Soil	0.015	9	125	15	221	1.0	114	30	2484	4.27	83	6	22	0.9	<3	5	51	0.25	0.102	14
TMSD-05	Soil	0.021	3	93	17	271	1.2	116	30	2173	4.66	94	4	39	1.1	<3	5	61	0.27	0.118	19
TMSD-06	Soil	0.012	1	19	12	79	<0.3	22	10	653	2.66	5	2	67	<0.5	<3	<3	56	0.59	0.091	17
TMSD-07	Soil	0.029	2	42	15	119	0.5	52	24	1294	3.49	93	3	35	<0.5	<3	3	69	0.21	0.087	15
TMSD-08	Soil	0.044	<1	88	10	105	0.6	171	34	1674	6.47	59	4	12	<0.5	<3	4	144	0.23	0.097	17
TMSD-09	Soil	0.049	4	82	21	216	1.4	123	34	1409	4.24	92	4	31	0.7	<3	<3	72	0.23	0.099	18
TMSD-10	Soil	0.047	3	57	19	86	1.8	30	12	481	3.60	115	2	33	<0.5	<3	3	65	0.13	0.104	20
TMSD-11	Soil	0.022	3	78	20	99	1.6	43	15	529	3.67	81	2	49	1.0	<3	<3	65	0.18	0.127	25
TMSD-12	Soil	0.014	2	30	12	96	0.6	28	7	254	2.74	41	<2	20	<0.5	<3	<3	70	0.09	0.056	18
TMSD-13	Soil	0.020	2	60	20	227	0.9	68	24	1315	3.80	25	5	48	1.3	<3	<3	62	0.19	0.107	28
DMD-01	Soil	0.013	<1	64	<3	55	<0.3	80	24	747	3.82	<2	<2	10	<0.5	<3	<3	72	0.19	0.037	4
DMD-02	Soil	0.015	<1	69	5	62	<0.3	53	23	685	4.01	4	<2	11	<0.5	<3	<3	91	0.19	0.039	8
DMD-03	Soil	0.009	<1	46	5	52	<0.3	51	17	492	3.13	5	2	11	<0.5	<3	<3	64	0.18	0.038	11
DMD-04	Soil	0.023	<1	69	6	73	<0.3	41	22	842	4.13	4	<2	14	<0.5	<3	<3	74	0.30	0.056	7
DMD-05	Soil	0.013	<1	49	3	58	<0.3	35	19	539	3.02	4	<2	15	<0.5	<3	<3	53	0.30	0.058	7
DMD-06	Soil	0.011	<1	54	<3	59	<0.3	34	19	748	3.78	3	<2	10	<0.5	<3	<3	75	0.22	0.047	7
DMD-07	Soil	0.013	<1	53	4	69	<0.3	24	23	848	4.30	2	<2	10	<0.5	<3	<3	77	0.23	0.053	6
DMD-08	Soil	0.055	<1	80	5	69	<0.3	17	20	1049	3.86	10	2	10	<0.5	<3	<3	91	0.22	0.062	9
DMD-09	Soil	0.012	<1	81	<3	55	<0.3	30	24	676	3.25	<2	<2	11	<0.5	<3	<3	71	0.29	0.053	3



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	Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
MADD-01	Soil	116	0.76	200	0.034	<20	1.74	0.02	0.10	<2	0.06	<1	<5	7	<5
MADD-02	Soil	32	0.57	354	0.035	<20	1.72	0.02	0.09	<2	<0.05	<1	<5	<5	5
MADD-03	Soil	93	1.33	201	0.054	<20	2.19	<0.01	0.11	<2	<0.05	<1	<5	7	8
MADD-04	Soil	81	0.62	135	0.046	<20	1.72	0.01	0.10	<2	0.08	<1	<5	5	<5
MADD-05	Soil	21	0.29	80	0.036	<20	1.45	0.02	0.06	<2	<0.05	<1	<5	<5	<5
MADD-06	Soil	45	0.62	127	0.043	<20	1.85	0.01	0.07	<2	0.06	<1	<5	<5	<5
MADD-07	Soil	41	0.54	109	0.043	<20	1.91	<0.01	0.08	<2	<0.05	<1	<5	6	<5
MADD-08	Soil	37	0.42	121	0.042	<20	1.85	0.01	0.08	<2	<0.05	<1	<5	5	<5
TMSD-01	Soil	33	0.56	354	0.041	<20	1.75	0.02	0.08	<2	<0.05	<1	<5	<5	<5
TMSD-02	Soil	76	0.99	544	0.020	<20	2.21	0.01	0.07	<2	0.05	<1	<5	5	8
TMSD-03	Soil	75	1.41	195	0.021	<20	2.26	<0.01	0.12	<2	<0.05	<1	<5	6	8
TMSD-04	Soil	47	0.84	185	0.002	<20	1.56	<0.01	0.12	<2	<0.05	<1	<5	<5	7
TMSD-05	Soil	63	1.15	144	0.017	<20	2.28	<0.01	0.09	<2	<0.05	<1	<5	6	7
TMSD-06	Soil	33	0.53	466	0.024	<20	1.56	0.02	0.09	<2	<0.05	<1	<5	<5	8
TMSD-07	Soil	53	0.82	316	0.035	<20	1.98	<0.01	0.12	<2	0.06	<1	<5	5	6
TMSD-08	Soil	230	3.73	435	0.024	<20	4.37	<0.01	0.24	<2	<0.05	<1	<5	12	21
TMSD-09	Soil	80	1.45	147	0.030	<20	2.56	<0.01	0.12	<2	<0.05	<1	<5	6	9
TMSD-10	Soil	37	0.49	132	0.043	<20	2.13	<0.01	0.11	<2	0.07	<1	<5	<5	<5
TMSD-11	Soil	41	0.55	110	0.040	<20	1.86	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
TMSD-12	Soil	44	0.27	108	0.032	<20	1.67	<0.01	0.05	<2	<0.05	<1	<5	6	<5
TMSD-13	Soil	35	0.50	118	0.049	<20	1.84	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
DMD-01	Soil	173	2.67	79	0.082	<20	2.62	<0.01	0.04	<2	<0.05	<1	<5	8	5
DMD-02	Soil	112	2.14	130	0.096	<20	2.59	<0.01	0.09	<2	<0.05	<1	<5	7	5
DMD-03	Soil	104	1.59	135	0.070	<20	2.06	<0.01	0.04	<2	<0.05	<1	<5	5	5
DMD-04	Soil	64	2.22	184	0.072	<20	2.59	<0.01	0.05	<2	<0.05	<1	<5	7	7
DMD-05	Soil	55	1.59	124	0.067	<20	1.96	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
DMD-06	Soil	53	2.00	171	0.033	<20	2.38	<0.01	0.04	<2	<0.05	<1	<5	6	9
DMD-07	Soil	25	2.22	153	0.024	<20	2.63	<0.01	0.05	<2	<0.05	<1	<5	7	8
DMD-08	Soil	20	1.50	287	0.071	<20	2.08	<0.01	0.21	<2	<0.05	<1	<5	6	9
DMD-09	Soil	70	1.97	117	0.080	<20	2.09	<0.01	0.11	<2	<0.05	<1	<5	<5	<5



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	Method	FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1
DMD-10	Soil	0.015	<1	88	3	58	<0.3	34	27	800	3.55	3	<2	12	<0.5	<3	<3	75	0.27	0.048	4
DMD-11	Soil	0.019	<1	70	11	59	<0.3	27	19	556	3.09	4	<2	13	<0.5	<3	<3	75	0.28	0.049	7
DMD-12	Soil	0.017	<1	58	9	73	0.3	23	16	532	2.99	5	<2	15	<0.5	<3	<3	73	0.29	0.047	9
DMD-13	Soil	0.018	<1	103	4	61	<0.3	35	26	1029	3.91	3	<2	11	<0.5	<3	<3	97	0.30	0.042	5
DMD-14	Soil	0.013	<1	63	6	66	<0.3	26	18	457	3.11	6	2	17	<0.5	<3	<3	74	0.30	0.049	11
DMD-15	Soil	0.016	<1	76	5	57	<0.3	28	18	531	2.96	6	<2	17	<0.5	<3	<3	67	0.32	0.050	9
DMD-16	Soil	0.010	<1	110	<3	61	<0.3	33	29	755	3.40	3	<2	18	<0.5	<3	<3	77	0.41	0.059	5
DMD-17	Soil	0.015	<1	84	12	59	0.3	25	24	1153	4.52	4	<2	7	<0.5	<3	<3	112	0.16	0.054	5
DMD-18	Soil	0.037	<1	131	10	81	0.4	19	29	1374	5.06	9	<2	5	<0.5	<3	<3	98	0.11	0.033	8
DMD-19	Soil	0.021	<1	56	<3	66	<0.3	17	23	1204	4.61	<2	<2	4	<0.5	<3	<3	107	0.15	0.052	2
DMD-20	Soil	0.014	<1	71	3	72	<0.3	16	27	1293	4.83	4	<2	4	<0.5	<3	<3	94	0.13	0.043	2
DMD-21	Soil	0.016	<1	62	8	69	<0.3	17	19	895	4.09	5	<2	8	<0.5	<3	<3	97	0.17	0.043	6
DMD-22	Soil	0.036	<1	102	34	112	<0.3	17	24	1389	4.30	7	<2	6	<0.5	<3	<3	73	0.14	0.039	8
DMD-23	Soil	0.047	<1	50	15	78	<0.3	13	26	1347	4.32	7	<2	6	<0.5	<3	<3	66	0.16	0.062	3
DMD-24	Soil	0.020	<1	64	4	55	<0.3	9	17	877	3.27	3	<2	13	<0.5	<3	<3	57	0.47	0.043	5
DMD-25	Soil	0.017	<1	35	7	58	<0.3	20	12	421	2.97	7	<2	15	<0.5	<3	<3	57	0.24	0.053	13
DMD-26	Soil	0.018	<1	31	7	50	<0.3	18	12	403	2.90	7	<2	14	<0.5	<3	<3	61	0.18	0.064	12
DMD-27	Soil	0.045	<1	35	6	57	<0.3	22	14	573	2.93	9	3	17	<0.5	<3	<3	57	0.22	0.059	16
DMD-28	Soil	0.013	<1	22	6	51	<0.3	16	9	374	2.48	6	2	17	<0.5	<3	<3	44	0.22	0.048	12
DMD-29	Soil	0.012	<1	25	6	57	<0.3	17	10	423	2.68	5	<2	22	<0.5	<3	<3	47	0.29	0.046	12
DMD-30	Soil	0.012	<1	24	4	55	<0.3	17	10	404	2.57	6	2	18	<0.5	<3	<3	44	0.26	0.057	13
RID-01	Soil	0.014	<1	93	<3	61	<0.3	27	24	710	3.77	4	<2	17	<0.5	<3	<3	103	0.29	0.038	7
RID-02	Soil	0.032	<1	106	<3	66	<0.3	26	28	754	4.19	3	<2	14	<0.5	<3	<3	127	0.35	0.040	5
RID-03	Soil	0.224	2	47	9	77	0.6	22	21	950	4.34	207	4	16	<0.5	<3	<3	42	0.26	0.093	19
RID-04	Soil	0.022	<1	74	4	67	<0.3	23	22	627	3.54	12	2	15	<0.5	<3	<3	93	0.33	0.055	10
RID-05	Soil	0.012	<1	61	3	50	<0.3	30	19	659	2.80	4	<2	19	<0.5	<3	<3	55	0.33	0.049	5
RID-06	Soil	0.012	<1	43	5	48	<0.3	33	16	420	2.93	6	<2	14	<0.5	<3	<3	66	0.20	0.043	10
RID-07	Soil	0.024	<1	67	5	58	<0.3	36	21	653	3.20	5	<2	14	<0.5	<3	<3	67	0.26	0.045	9
RID-08	Soil	0.012	<1	55	3	50	<0.3	45	21	500	3.15	4	<2	15	<0.5	<3	<3	60	0.30	0.043	7
RID-09	Soil	0.013	<1	48	6	54	<0.3	46	16	470	3.01	6	2	15	<0.5	<3	<3	60	0.24	0.042	10



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	Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
DMD-10	Soil	76	2.10	157	0.086	<20	2.32	<0.01	0.06	<2	<0.05	<1	<5	6	6
DMD-11	Soil	55	1.55	183	0.064	<20	1.99	<0.01	0.04	<2	<0.05	<1	<5	<5	6
DMD-12	Soil	43	1.20	156	0.046	<20	1.89	<0.01	0.05	<2	<0.05	<1	<5	<5	5
DMD-13	Soil	76	2.34	192	0.069	<20	2.51	<0.01	0.04	<2	<0.05	<1	<5	5	9
DMD-14	Soil	36	1.14	192	0.082	<20	2.10	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
DMD-15	Soil	42	1.13	186	0.061	<20	1.86	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
DMD-16	Soil	67	1.91	126	0.097	<20	2.14	<0.01	0.06	<2	<0.05	<1	<5	<5	5
DMD-17	Soil	31	2.07	52	0.031	<20	3.07	<0.01	0.01	<2	<0.05	<1	<5	7	10
DMD-18	Soil	20	1.90	89	0.017	<20	2.97	<0.01	0.02	<2	<0.05	<1	<5	7	14
DMD-19	Soil	16	2.10	43	0.034	<20	2.93	<0.01	<0.01	<2	<0.05	<1	<5	6	9
DMD-20	Soil	13	2.06	55	0.028	<20	3.00	<0.01	0.01	<2	<0.05	<1	<5	6	7
DMD-21	Soil	20	1.48	83	0.040	<20	2.64	<0.01	0.02	<2	<0.05	<1	<5	5	7
DMD-22	Soil	13	1.71	81	0.018	<20	2.74	<0.01	0.02	<2	<0.05	<1	<5	6	11
DMD-23	Soil	13	1.41	71	0.014	<20	2.47	<0.01	0.02	<2	<0.05	<1	<5	6	5
DMD-24	Soil	10	1.13	62	0.017	<20	1.99	<0.01	0.02	<2	<0.05	<1	<5	<5	<5
DMD-25	Soil	27	0.95	227	0.036	<20	1.99	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
DMD-26	Soil	27	0.88	179	0.040	<20	1.95	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
DMD-27	Soil	29	0.89	246	0.049	<20	1.93	<0.01	0.04	<2	<0.05	<1	<5	<5	5
DMD-28	Soil	20	0.75	191	0.046	<20	1.57	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
DMD-29	Soil	21	0.86	303	0.045	<20	1.67	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
DMD-30	Soil	21	0.82	185	0.053	<20	1.52	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
RID-01	Soil	46	2.02	264	0.120	<20	2.41	<0.01	0.19	<2	<0.05	<1	<5	<5	6
RID-02	Soil	34	2.39	365	0.130	<20	2.63	<0.01	0.22	<2	<0.05	<1	<5	5	8
RID-03	Soil	13	0.60	276	0.025	<20	1.03	<0.01	0.15	<2	<0.05	<1	<5	<5	9
RID-04	Soil	25	1.47	338	0.092	<20	2.08	<0.01	0.14	<2	<0.05	<1	<5	<5	7
RID-05	Soil	65	1.54	133	0.059	<20	1.91	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
RID-06	Soil	74	1.24	181	0.051	<20	1.99	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
RID-07	Soil	65	1.59	245	0.051	<20	2.13	<0.01	0.04	<2	<0.05	<1	<5	<5	8
RID-08	Soil	94	1.76	125	0.056	<20	2.11	<0.01	0.03	<2	<0.05	<1	<5	<5	5
RID-09	Soil	94	1.42	194	0.051	<20	2.04	<0.01	0.04	<2	<0.05	<1	<5	<5	6



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Project: None Given
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CERTIFICATE OF ANALYSIS

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	Method	FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1
RID-10	Soil	0.012	<1	27	5	38	<0.3	19	11	296	2.53	5	<2	15	<0.5	<3	<3	60	0.24	0.034	9
RID-11	Soil	0.012	<1	51	<3	36	<0.3	26	24	477	2.48	4	<2	12	<0.5	<3	<3	45	0.27	0.042	2
RID-12	Soil	0.013	<1	54	<3	77	<0.3	25	18	639	3.66	6	2	13	<0.5	<3	<3	72	0.29	0.062	7
RID-13	Soil	0.012	<1	40	<3	79	<0.3	14	17	488	3.50	3	<2	14	<0.5	<3	<3	47	0.29	0.049	4
RID-14	Soil	0.013	<1	64	3	58	<0.3	23	24	494	3.36	5	<2	14	<0.5	<3	<3	68	0.28	0.028	6
RID-15	Soil	0.013	<1	75	<3	74	<0.3	21	25	765	4.35	4	<2	12	<0.5	<3	<3	82	0.28	0.030	5
RID-16	Soil	0.016	<1	74	<3	63	<0.3	28	27	890	3.95	<2	<2	13	<0.5	<3	<3	78	0.34	0.050	3
RID-17	Soil	0.011	<1	60	<3	81	<0.3	11	23	796	4.80	3	<2	10	<0.5	<3	<3	112	0.26	0.041	3
RID-18	Soil	0.032	<1	92	<3	86	<0.3	14	29	974	5.50	<2	<2	10	<0.5	<3	<3	121	0.38	0.036	6
RID-19	Soil	0.013	<1	63	4	59	<0.3	32	19	622	3.66	4	<2	13	<0.5	<3	<3	83	0.23	0.048	7
RID-20	Soil	0.013	<1	88	4	60	<0.3	43	25	819	4.05	3	<2	11	<0.5	<3	<3	99	0.21	0.042	5
RID-21	Soil	0.014	<1	25	9	52	<0.3	19	11	412	2.74	8	<2	14	<0.5	<3	<3	53	0.20	0.053	12
RID-22	Soil	0.076	<1	29	5	58	<0.3	20	11	440	3.06	6	2	15	<0.5	<3	<3	58	0.19	0.032	12
RID-23	Soil	0.013	<1	30	6	57	<0.3	21	11	453	2.94	7	2	21	<0.5	<3	<3	54	0.27	0.044	12
RID-24	Soil	0.012	<1	37	6	62	<0.3	21	12	504	3.29	7	2	18	<0.5	<3	<3	57	0.23	0.038	13



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
RID-10	Soil	42	0.86	127	0.047	<20	1.72	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
RID-11	Soil	53	1.43	64	0.054	<20	1.62	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
RID-12	Soil	30	1.81	160	0.073	<20	2.21	<0.01	0.09	<2	<0.05	<1	<5	<5	7
RID-13	Soil	22	1.73	86	0.066	<20	2.19	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
RID-14	Soil	32	1.58	109	0.086	<20	2.23	<0.01	0.03	<2	<0.05	<1	<5	<5	5
RID-15	Soil	20	2.00	143	0.091	<20	2.79	<0.01	0.06	<2	<0.05	<1	<5	<5	5
RID-16	Soil	29	1.90	105	0.113	<20	2.39	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
RID-17	Soil	11	2.11	105	0.066	<20	2.89	<0.01	0.09	<2	<0.05	<1	<5	6	6
RID-18	Soil	11	2.36	105	0.012	<20	3.05	<0.01	0.05	<2	<0.05	<1	<5	7	16
RID-19	Soil	47	2.15	134	0.052	<20	2.65	<0.01	0.02	<2	<0.05	<1	<5	<5	5
RID-20	Soil	66	2.57	110	0.048	<20	2.95	<0.01	0.01	<2	<0.05	<1	<5	5	7
RID-21	Soil	25	0.85	189	0.044	<20	1.78	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
RID-22	Soil	29	1.04	193	0.055	<20	1.99	<0.01	0.04	<2	<0.05	<1	<5	6	<5
RID-23	Soil	27	0.97	265	0.047	<20	1.84	<0.01	0.04	<2	<0.05	<1	<5	5	<5
RID-24	Soil	28	1.13	277	0.048	<20	2.12	<0.01	0.04	<2	<0.05	<1	<5	<5	5



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Method Analyte Unit MDL		FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1
Pulp Duplicates																					
TMSD-10	Soil	0.047	3	57	19	86	1.8	30	12	481	3.60	115	2	33	<0.5	<3	3	65	0.13	0.104	20
REP TMSD-10	QC	0.047																			
DMD-11	Soil	0.019	<1	70	11	59	<0.3	27	19	556	3.09	4	<2	13	<0.5	<3	<3	75	0.28	0.049	7
REP DMD-11	QC		<1	68	10	57	<0.3	26	18	535	2.98	4	<2	13	<0.5	<3	<3	72	0.28	0.051	7
DMD-15	Soil	0.016	<1	76	5	57	<0.3	28	18	531	2.96	6	<2	17	<0.5	<3	<3	67	0.32	0.050	9
REP DMD-15	QC	0.014																			
RID-17	Soil	0.011	<1	60	<3	81	<0.3	11	23	796	4.80	3	<2	10	<0.5	<3	<3	112	0.26	0.041	3
REP RID-17	QC		<1	59	<3	79	<0.3	11	23	793	4.72	3	<2	9	<0.5	<3	<3	109	0.26	0.042	3
RID-24	Soil	0.012	<1	37	6	62	<0.3	21	12	504	3.29	7	2	18	<0.5	<3	<3	57	0.23	0.038	13
REP RID-24	QC		<1	36	6	62	<0.3	21	12	495	3.24	7	2	18	<0.5	<3	<3	57	0.23	0.037	13
Reference Materials																					
STD BVGEO01	Standard		11	4611	199	1834	2.9	174	26	749	3.81	124	14	59	6.4	3	26	77	1.39	0.077	27
STD DS11	Standard		15	150	134	348	1.7	78	13	1032	3.17	45	7	70	2.0	6	10	50	1.08	0.070	18
STD DS11	Standard		14	150	148	346	1.9	81	14	1052	3.13	46	7	69	2.3	8	17	50	1.09	0.074	18
STD OREAS262	Standard		<1	120	55	152	0.5	63	27	537	3.35	35	8	36	<0.5	<3	<3	22	3.02	0.039	16
STD OREAS262	Standard		<1	123	61	157	0.6	66	27	550	3.35	37	8	37	0.6	<3	<3	23	3.05	0.041	18
STD OREAS262	Standard		<1	122	59	156	0.6	65	28	540	3.29	37	8	36	0.6	<3	<3	23	2.97	0.040	17
STD OXC152	Standard	0.215																			
STD OXC152	Standard	0.210																			
STD OXH139	Standard	1.267																			
STD OXH139	Standard	1.309																			
STD OXN134	Standard	7.633																			
STD OXN134	Standard	7.768																			
STD DS11 Expected			13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701	18.6
STD BVGEO01 Expected			10.8	4415	187	1741	2.53	163	25	733	3.7	121	14.4	55	6.5	2.2	25.6	73	1.3219	0.0727	25.9
STD OREAS262 Expected				118	56	154	0.45	62	26.9	530	3.284	35.8	9.33	36	0.61	3.39		22.5	2.98	0.04	15.9
STD OXC152 Expected		0.216																			
STD OXH139 Expected		1.312																			



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QUALITY CONTROL REPORT

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Method Analyte Unit MDL		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
Pulp Duplicates															
TMSD-10	Soil	37	0.49	132	0.043	<20	2.13	<0.01	0.11	<2	0.07	<1	<5	<5	<5
REP TMSD-10	QC														
DMD-11	Soil	55	1.55	183	0.064	<20	1.99	<0.01	0.04	<2	<0.05	<1	<5	<5	6
REP DMD-11	QC	53	1.50	176	0.062	<20	1.92	<0.01	0.04	<2	<0.05	<1	<5	<5	6
DMD-15	Soil	42	1.13	186	0.061	<20	1.86	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
REP DMD-15	QC														
RID-17	Soil	11	2.11	105	0.066	<20	2.89	<0.01	0.09	<2	<0.05	<1	<5	6	6
REP RID-17	QC	10	2.09	102	0.064	<20	2.85	<0.01	0.09	<2	<0.05	<1	<5	7	5
RID-24	Soil	28	1.13	277	0.048	<20	2.12	<0.01	0.04	<2	<0.05	<1	<5	<5	5
REP RID-24	QC	28	1.12	272	0.050	<20	2.09	<0.01	0.04	<2	<0.05	<1	<5	5	5
Reference Materials															
STD BVGEO01	Standard	189	1.39	354	0.244	<20	2.48	0.20	0.95	5	0.73	<1	<5	<5	6
STD DS11	Standard	58	0.85	427	0.091	<20	1.22	0.07	0.41	2	0.29	<1	6	5	<5
STD DS11	Standard	59	0.87	453	0.093	<20	1.22	0.07	0.42	2	0.29	<1	7	5	<5
STD OREAS262	Standard	43	1.20	253	0.002	<20	1.39	0.07	0.33	<2	0.27	<1	<5	<5	<5
STD OREAS262	Standard	46	1.25	265	0.003	<20	1.45	0.07	0.35	<2	0.28	<1	<5	<5	<5
STD OREAS262	Standard	45	1.22	259	0.002	<20	1.41	0.07	0.34	<2	0.28	<1	<5	<5	<5
STD OXC152	Standard														
STD OXC152	Standard														
STD OXH139	Standard														
STD OXH139	Standard														
STD OXN134	Standard														
STD OXN134	Standard														
STD DS11 Expected		61.5	0.85	417	0.0976	6	1.129	0.0694	0.4	2.9	0.2835	0.3	4.9	4.7	3.1
STD BVGEO01 Expected		171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	0.6655			7.37	5.97
STD OREAS262 Expected		41.7	1.17	248	0.003		1.204	0.071	0.312		0.253			3.73	3.24
STD OXC152 Expected															
STD OXH139 Expected															



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QUALITY CONTROL REPORT

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		FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1
STD OXN134 Expected		7.667																			
BLK	Blank		<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1
BLK	Blank		<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1
BLK	Blank		<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1
BLK	Blank	0.006																			
BLK	Blank	<0.005																			
BLK	Blank	0.005																			
BLK	Blank	0.006																			



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		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
STD OXN134 Expected															
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														