



BUREAU VERITAS 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: **Luckystrike Resources Ltd.**
1010 – 1130 West Pender Street
Vancouver British Columbia V6E 4A4 Canada

Submitted By: Email Distribution
Receiving Lab: Canada-Whitehorse
Received: September 11, 2018
Report Date: October 04, 2018
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CERTIFICATE OF ANALYSIS

WHI18000901.1

CLIENT JOB INFORMATION

Project: HS
Shipment ID: HS-2018-SOIL_02
P.O. Number
Number of Samples: 165

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 60 days Invoice for Storage

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: Luckystrike Resources Ltd.
1010 – 1130 West Pender Street
Vancouver British Columbia V6E 4A4
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	164	Dry at 60C			WHI
SS80	164	Dry at 60C sieve 100g to -80 mesh			WHI
SVRJT	164	Save all or part of Soil Reject			WHI
AQ201	154	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	164	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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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Method Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1878001	Soil		0.8	13.2	23.3	43	<0.1	12.7	5.4	168	2.02	18.2	7.9	10.6	20	<0.1	2.0	0.7	52	0.29	0.011	11
1878002	Soil		0.9	9.3	22.2	34	<0.1	8.5	3.6	103	1.25	45.5	4.4	8.7	21	0.1	4.2	0.5	34	0.22	0.009	9
1878003	Soil		1.0	11.9	24.9	46	<0.1	12.0	5.5	147	1.60	45.1	4.3	10.9	23	<0.1	4.2	0.5	42	0.35	0.022	13
1878004	Soil		0.9	18.4	19.2	49	<0.1	14.0	6.1	144	1.86	27.2	6.3	10.2	24	<0.1	2.8	0.4	43	0.34	0.028	16
1878005	Soil		2.0	15.6	30.0	64	<0.1	12.4	8.2	319	1.93	85.0	3.5	14.7	22	0.1	8.2	0.6	50	0.34	0.026	14
1878006	Soil		1.6	11.5	21.9	51	<0.1	12.7	6.7	222	1.99	45.3	2.4	7.8	20	<0.1	9.1	0.4	50	0.31	0.019	13
1878007	Soil		2.0	10.4	22.5	65	<0.1	8.3	6.0	259	1.65	59.8	7.6	5.9	19	<0.1	8.1	0.8	37	0.29	0.033	12
1878008	Soil		1.8	13.4	18.4	63	0.2	9.2	6.1	156	1.81	57.2	15.3	5.1	24	0.2	5.8	0.8	24	0.53	0.077	24
1878009	Soil		1.0	17.4	20.6	75	<0.1	12.3	5.8	172	2.16	40.9	7.6	8.2	26	0.1	10.5	0.5	41	0.43	0.038	16
1878010	Soil		0.7	13.8	16.7	62	<0.1	9.8	4.0	97	2.07	47.1	6.8	6.7	22	0.1	9.1	0.5	41	0.37	0.037	14
1878011	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878012	Soil		1.1	16.1	19.2	49	0.1	8.6	3.8	69	1.48	65.0	7.9	2.8	20	0.1	7.8	0.7	30	0.26	0.033	12
1878013	Soil		1.6	15.0	19.5	49	0.2	9.5	5.6	117	1.70	58.9	48.5	5.0	25	0.1	8.9	0.6	34	0.33	0.034	14
1878014	Soil		4.2	12.6	19.8	49	0.2	9.1	7.9	350	2.28	82.2	23.6	5.7	16	<0.1	5.2	0.3	62	0.16	0.017	10
1878015	Soil		3.4	15.1	30.3	41	0.2	12.4	6.3	161	1.74	28.3	67.8	11.5	25	<0.1	3.4	0.3	46	0.26	0.023	16
1878016	Soil		4.4	17.6	33.7	55	0.4	10.5	5.3	133	2.27	69.7	81.0	8.3	28	<0.1	5.3	0.4	48	0.32	0.036	15
1878017	Soil		1.9	12.5	21.9	36	0.3	9.9	3.4	53	1.62	38.5	39.7	3.5	28	<0.1	3.2	0.3	26	0.34	0.042	12
1878018	Soil		1.3	17.8	20.7	46	0.2	12.9	4.9	95	2.35	31.1	18.1	4.6	23	0.1	2.1	0.3	60	0.28	0.042	11
1878019	Soil		1.8	29.3	23.3	44	0.2	14.7	5.5	118	2.17	19.4	22.9	4.0	23	0.1	1.9	0.3	50	0.27	0.044	15
1878020	Soil		1.0	18.4	17.8	45	0.1	13.4	8.0	189	2.06	16.0	31.6	5.8	27	<0.1	1.8	0.2	51	0.32	0.033	13
1878021	Soil		1.0	14.2	18.7	44	0.2	10.1	4.3	80	1.67	21.1	20.7	3.1	26	<0.1	2.1	0.2	36	0.31	0.038	11
1878022	Soil		0.8	11.6	18.3	44	<0.1	12.8	6.5	235	1.97	10.4	3.0	5.3	25	<0.1	2.3	0.2	51	0.31	0.018	10
1878023	Soil		0.8	12.0	21.2	39	<0.1	13.2	6.0	208	1.86	6.0	2.8	10.1	26	<0.1	0.8	0.3	53	0.32	0.015	13
1878024	Soil		1.5	11.4	29.3	44	<0.1	10.4	5.3	232	1.73	9.5	1.7	9.9	22	<0.1	0.7	0.4	48	0.30	0.023	13
1878025	Soil		0.6	14.2	24.6	32	<0.1	11.2	4.0	113	1.38	6.3	2.3	11.6	23	<0.1	0.3	0.3	40	0.32	0.020	14
1878026	Soil		1.8	18.9	23.1	42	<0.1	10.6	4.6	90	1.75	14.1	2.2	11.1	20	<0.1	0.4	0.4	37	0.32	0.027	16
1878027	Soil		1.1	11.3	35.5	47	<0.1	9.2	4.4	146	1.36	17.1	2.9	15.0	16	0.2	0.4	0.5	35	0.31	0.028	22
1878028	Soil		0.8	11.3	18.3	47	<0.1	11.4	10.1	724	1.65	3.7	1.6	5.4	26	0.2	0.2	1.1	45	0.32	0.039	19
1878029	Soil		0.6	14.5	19.1	51	0.1	13.8	9.0	493	1.70	3.1	2.4	7.6	28	0.2	0.2	0.5	44	0.40	0.032	21
1878030	Soil		0.5	13.2	20.1	48	<0.1	13.4	8.3	300	1.87	4.2	1.9	9.1	25	0.1	0.2	0.4	50	0.30	0.031	16



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1878001	Soil	27	0.42	83	0.074	2	1.86	0.034	0.09	0.3	0.05	3.0	0.3	<0.05	5	<0.5	<0.2
1878002	Soil	18	0.26	58	0.048	1	1.03	0.059	0.09	0.3	0.07	1.8	0.5	<0.05	3	<0.5	<0.2
1878003	Soil	24	0.39	79	0.062	<1	1.23	0.046	0.10	0.3	0.07	3.1	0.2	<0.05	4	<0.5	<0.2
1878004	Soil	27	0.37	85	0.045	1	1.61	0.038	0.08	0.2	0.08	4.1	0.3	<0.05	5	<0.5	<0.2
1878005	Soil	27	0.36	71	0.041	<1	1.59	0.039	0.12	0.2	0.12	3.4	0.4	<0.05	5	<0.5	<0.2
1878006	Soil	27	0.39	81	0.046	2	1.53	0.024	0.10	0.2	0.06	3.1	0.3	<0.05	5	<0.5	<0.2
1878007	Soil	19	0.27	78	0.024	<1	1.40	0.019	0.12	0.2	0.09	2.4	0.5	<0.05	5	<0.5	<0.2
1878008	Soil	18	0.19	70	0.008	1	1.97	0.017	0.13	0.3	0.27	3.5	0.5	<0.05	6	<0.5	<0.2
1878009	Soil	25	0.33	95	0.024	<1	2.02	0.025	0.18	0.2	0.16	4.1	0.6	<0.05	7	1.1	<0.2
1878010	Soil	22	0.28	79	0.018	<1	1.97	0.023	0.13	0.2	0.12	3.5	0.5	<0.05	6	<0.5	<0.2
1878011	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878012	Soil	19	0.26	81	0.023	<1	1.41	0.019	0.11	0.2	0.15	2.2	0.4	<0.05	5	<0.5	<0.2
1878013	Soil	21	0.24	82	0.022	1	1.62	0.020	0.12	0.2	0.15	3.1	0.5	<0.05	6	<0.5	<0.2
1878014	Soil	22	0.26	101	0.034	<1	1.73	0.015	0.10	0.2	0.03	2.5	0.3	<0.05	7	<0.5	<0.2
1878015	Soil	22	0.31	68	0.071	<1	1.18	0.031	0.10	0.1	0.05	3.3	0.3	<0.05	4	<0.5	<0.2
1878016	Soil	25	0.27	105	0.023	<1	2.08	0.016	0.15	0.2	0.13	3.6	0.4	<0.05	7	<0.5	<0.2
1878017	Soil	21	0.23	88	0.025	<1	1.50	0.014	0.11	0.2	0.12	2.9	0.3	<0.05	5	<0.5	<0.2
1878018	Soil	26	0.36	103	0.066	<1	1.65	0.019	0.08	0.1	0.07	3.5	0.2	<0.05	5	1.0	<0.2
1878019	Soil	28	0.31	130	0.051	<1	1.81	0.018	0.08	<0.1	0.07	3.9	0.2	<0.05	6	<0.5	<0.2
1878020	Soil	26	0.38	119	0.072	<1	1.58	0.023	0.07	0.1	0.04	3.8	0.2	<0.05	5	<0.5	<0.2
1878021	Soil	22	0.27	98	0.045	1	1.49	0.020	0.10	<0.1	0.07	3.0	0.2	<0.05	5	0.8	<0.2
1878022	Soil	25	0.39	108	0.072	<1	1.81	0.035	0.09	0.2	0.04	3.1	0.2	<0.05	6	<0.5	<0.2
1878023	Soil	28	0.39	107	0.076	<1	1.53	0.053	0.06	0.2	0.03	3.3	0.2	<0.05	5	<0.5	<0.2
1878024	Soil	22	0.30	84	0.052	<1	1.40	0.048	0.16	0.4	0.04	2.8	0.3	<0.05	4	0.7	<0.2
1878025	Soil	22	0.31	55	0.065	<1	1.18	0.070	0.08	0.2	0.04	3.6	0.2	<0.05	4	<0.5	<0.2
1878026	Soil	19	0.23	63	0.021	1	2.04	0.036	0.11	0.2	0.04	3.1	0.5	<0.05	6	<0.5	<0.2
1878027	Soil	23	0.26	39	0.023	<1	1.61	0.088	0.09	0.2	0.08	3.4	0.4	<0.05	5	<0.5	<0.2
1878028	Soil	21	0.32	72	0.048	<1	1.60	0.060	0.09	0.1	0.04	3.1	0.2	<0.05	5	<0.5	<0.2
1878029	Soil	23	0.35	74	0.058	<1	1.73	0.057	0.09	0.1	0.03	3.9	0.2	<0.05	5	<0.5	<0.2
1878030	Soil	26	0.36	71	0.064	<1	2.13	0.055	0.08	0.1	0.05	3.3	0.2	<0.05	6	<0.5	<0.2



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Method Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1
1878031	Soil		0.3	12.7	15.7	44	<0.1	12.0	5.0	119	1.52	2.9	4.3	5.9	27	<0.1	0.3	41	0.31	0.027	14
1878032	Soil		0.5	12.1	15.0	45	<0.1	12.4	5.7	170	1.57	3.4	3.1	4.6	26	0.1	0.3	41	0.32	0.035	14
1878033	Soil		0.8	12.3	13.4	62	<0.1	14.6	9.5	330	2.25	12.8	16.6	6.2	29	<0.1	0.5	59	0.44	0.055	21
1878034	Soil		1.0	24.3	11.0	47	<0.1	18.2	8.7	321	2.08	13.4	6.4	3.6	45	<0.1	1.0	52	0.67	0.053	14
1878035	Soil		1.4	20.9	12.4	43	<0.1	16.7	9.1	270	2.26	19.6	9.1	4.4	32	0.1	1.0	63	0.42	0.049	15
1878036	Soil		1.0	19.5	14.0	45	0.1	14.3	6.9	183	2.02	15.6	15.5	5.5	35	<0.1	0.9	48	0.48	0.045	17
1878037	Soil		0.9	16.7	15.1	51	0.2	12.5	6.3	168	2.06	22.9	176.7	5.9	31	0.1	1.3	46	0.40	0.041	15
1878038	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878039	Soil		1.0	20.9	21.3	54	0.2	13.3	7.2	153	2.26	30.7	37.9	8.1	31	0.1	1.5	51	0.40	0.036	19
1878040	Soil		1.0	20.0	20.9	53	0.2	14.1	5.0	117	1.98	28.1	18.7	7.5	31	0.1	1.7	45	0.42	0.033	19
1878041	Soil		1.9	33.2	17.8	47	<0.1	19.4	8.6	759	1.97	7.9	3.1	5.6	80	<0.1	0.7	50	0.93	0.046	24
1878042	Soil		0.9	17.7	17.2	53	<0.1	14.0	7.9	383	1.80	6.1	2.5	5.4	44	0.1	0.6	48	0.59	0.051	17
1878043	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878044	Soil		0.7	37.9	7.6	61	0.1	27.6	11.3	339	2.77	8.3	3.8	2.3	46	0.2	0.6	67	0.90	0.071	12
1878045	Soil		0.6	19.2	7.7	52	<0.1	16.9	7.9	273	2.21	8.9	4.1	2.4	38	0.2	0.7	56	0.58	0.062	11
1878046	Soil		0.7	33.4	8.7	62	<0.1	25.2	11.4	390	2.67	11.7	3.7	3.3	48	0.2	0.7	64	0.88	0.066	13
1878047	Soil		0.9	42.9	9.0	63	0.1	31.0	12.5	517	2.91	11.0	5.4	2.9	56	0.2	0.8	69	0.95	0.072	14
1878048	Soil		0.9	26.9	8.6	53	<0.1	21.0	10.2	327	2.55	13.4	5.6	2.7	43	0.2	0.8	61	0.64	0.056	13
1878049	Soil		1.6	16.9	20.3	40	0.1	13.7	6.1	134	1.96	51.2	21.5	5.9	31	0.1	2.8	47	0.39	0.038	20
1878050	Soil		1.8	16.8	19.3	35	0.2	9.3	3.4	39	1.96	85.8	20.1	2.1	31	0.1	3.2	29	0.38	0.072	22
1878051	Soil		1.2	19.7	21.3	54	0.2	11.1	5.4	94	2.04	39.4	113.1	6.1	25	<0.1	3.2	42	0.31	0.032	17
1878052	Soil		2.6	19.3	25.7	48	0.3	8.9	3.9	65	1.83	51.4	32.7	5.0	25	0.1	4.2	34	0.29	0.038	17
1878053	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878054	Soil		1.2	9.7	15.8	56	<0.1	13.1	5.5	257	2.09	9.3	1.7	5.7	18	0.1	0.4	60	0.21	0.012	7
1878055	Soil		0.9	11.9	23.7	47	<0.1	11.8	5.3	168	1.70	35.6	4.0	16.4	34	0.1	1.2	46	0.33	0.007	11
1878056	Soil		1.2	8.2	16.1	28	0.1	7.4	3.8	112	1.67	41.9	15.7	3.2	10	<0.1	0.9	44	0.09	0.013	6
1878057	Soil		1.3	11.7	35.0	44	<0.1	10.8	6.4	238	1.53	46.4	46.7	10.1	20	0.1	0.9	38	0.18	0.008	13
1878058	Soil		1.4	14.8	40.4	69	0.4	8.1	3.9	132	1.37	45.4	363.2	8.3	17	0.2	1.1	31	0.18	0.019	29
1878059	Soil		0.9	8.0	25.7	41	<0.1	8.2	4.0	210	1.30	16.3	129.0	6.9	14	0.2	0.6	31	0.19	0.014	20
1878060	Soil		1.5	13.7	19.7	45	<0.1	15.1	6.1	365	2.57	7.9	3.5	8.2	15	0.2	0.3	65	0.17	0.018	21



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1878031	Soil	23	0.38	76	0.072	1	1.62	0.056	0.08	0.1	0.04	3.4	0.1	<0.05	5	0.6	<0.2
1878032	Soil	24	0.36	79	0.066	<1	1.61	0.055	0.09	0.1	0.05	3.1	0.1	<0.05	4	<0.5	<0.2
1878033	Soil	26	0.40	110	0.064	<1	1.58	0.025	0.09	0.3	0.05	3.7	0.2	0.06	5	<0.5	<0.2
1878034	Soil	27	0.44	168	0.074	<1	1.62	0.030	0.07	0.2	0.03	4.1	<0.1	<0.05	5	0.7	<0.2
1878035	Soil	27	0.37	148	0.065	<1	1.61	0.023	0.07	0.1	0.05	4.3	0.1	<0.05	5	0.8	<0.2
1878036	Soil	24	0.36	152	0.054	<1	1.60	0.025	0.07	0.1	0.06	3.8	0.2	<0.05	5	<0.5	<0.2
1878037	Soil	25	0.37	131	0.048	2	1.72	0.028	0.09	0.1	0.06	4.3	0.2	<0.05	5	<0.5	<0.2
1878038	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878039	Soil	28	0.40	147	0.049	1	1.85	0.024	0.12	0.2	0.06	4.5	0.2	<0.05	5	<0.5	<0.2
1878040	Soil	27	0.42	137	0.059	2	1.80	0.023	0.14	0.2	0.09	4.5	0.3	<0.05	5	<0.5	<0.2
1878041	Soil	26	0.39	199	0.066	2	1.69	0.030	0.09	0.3	0.05	5.3	0.1	<0.05	5	<0.5	<0.2
1878042	Soil	26	0.37	159	0.058	1	1.50	0.025	0.08	0.2	0.03	4.1	0.1	<0.05	4	<0.5	<0.2
1878043	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878044	Soil	32	0.74	203	0.084	3	1.53	0.046	0.07	0.2	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
1878045	Soil	26	0.46	157	0.072	2	1.49	0.028	0.06	0.2	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
1878046	Soil	31	0.63	197	0.087	2	1.53	0.045	0.06	0.2	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
1878047	Soil	35	0.72	224	0.075	3	1.62	0.045	0.05	0.2	0.04	5.2	<0.1	<0.05	4	<0.5	<0.2
1878048	Soil	29	0.55	180	0.077	2	1.54	0.036	0.06	0.2	0.06	4.5	<0.1	<0.05	4	<0.5	<0.2
1878049	Soil	25	0.31	120	0.036	<1	1.70	0.025	0.09	0.2	0.10	4.0	0.3	<0.05	5	<0.5	<0.2
1878050	Soil	18	0.17	102	0.012	<1	1.59	0.016	0.10	0.2	0.12	2.8	0.3	<0.05	5	<0.5	<0.2
1878051	Soil	26	0.35	93	0.046	<1	2.00	0.022	0.12	0.1	0.07	3.7	0.3	<0.05	6	<0.5	<0.2
1878052	Soil	20	0.23	85	0.027	<1	1.75	0.018	0.16	0.2	0.09	2.7	0.5	<0.05	6	0.7	<0.2
1878053	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878054	Soil	23	0.38	52	0.063	<1	1.62	0.027	0.09	0.2	0.02	2.1	0.2	<0.05	5	<0.5	<0.2
1878055	Soil	24	0.32	65	0.053	<1	1.38	0.113	0.09	0.3	0.26	2.7	0.4	<0.05	4	<0.5	<0.2
1878056	Soil	17	0.20	52	0.034	<1	1.20	0.013	0.07	0.1	0.03	1.4	0.2	<0.05	5	<0.5	<0.2
1878057	Soil	21	0.29	91	0.050	<1	1.06	0.018	0.12	0.3	0.01	2.1	0.2	0.07	3	<0.5	<0.2
1878058	Soil	17	0.24	54	0.056	<1	0.87	0.015	0.10	0.3	0.03	2.5	0.3	<0.05	3	0.6	<0.2
1878059	Soil	16	0.22	63	0.034	<1	1.03	0.015	0.10	0.2	<0.01	1.4	0.2	<0.05	3	<0.5	<0.2
1878060	Soil	28	0.33	122	0.076	<1	1.70	0.014	0.05	0.1	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1878061	Soil	1.0	26.3	17.7	51	<0.1	24.2	8.8	255	2.97	8.8	5.4	8.4	21	0.1	0.4	0.1	74	0.19	0.015	20
1878062	Soil	1.1	3.7	43.2	54	<0.1	2.8	1.1	113	0.86	18.9	5.1	18.1	10	<0.1	0.5	1.3	7	0.15	0.013	69
1878063	Soil	1.9	21.0	22.8	62	0.2	15.5	9.8	304	2.69	18.0	32.8	6.5	35	<0.1	0.8	0.3	67	0.47	0.040	22
1878064	Soil	0.8	19.0	19.0	59	0.1	14.4	6.4	177	2.04	12.8	19.1	6.7	33	0.2	0.6	0.5	47	0.46	0.034	17
1878065	Soil	0.6	9.3	15.1	42	<0.1	10.3	4.4	115	1.46	8.4	9.8	6.4	25	0.1	0.4	0.2	39	0.33	0.022	12
1878066	Soil	1.5	18.3	23.2	55	0.2	13.1	5.8	174	1.79	16.1	29.8	7.8	28	0.2	0.7	0.3	43	0.35	0.027	20
1878067	Soil	1.5	8.5	14.3	38	0.1	9.3	4.5	163	1.37	18.4	5.0	5.3	24	0.1	0.5	0.2	37	0.26	0.017	12
1878068	Soil	1.9	13.8	14.0	39	0.2	8.7	5.5	349	1.18	23.9	3.2	2.5	18	0.3	0.6	0.2	27	0.22	0.023	13
1878069	Soil	1.8	4.9	41.1	23	<0.1	4.0	1.8	46	0.70	64.6	8.6	9.7	12	<0.1	1.9	0.3	16	0.16	0.009	14
1878070	Soil	1.2	13.4	15.9	46	<0.1	11.5	7.1	386	1.85	52.2	3.4	3.8	25	<0.1	1.1	0.2	45	0.35	0.026	12
1878071	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878072	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878073	Soil	1.3	15.0	17.9	41	0.1	10.5	5.5	169	1.39	19.8	16.5	8.8	22	<0.1	1.5	0.4	36	0.29	0.023	17
1878074	Soil	2.1	7.7	16.4	36	0.1	7.0	4.8	462	1.18	16.5	20.9	2.8	14	0.1	0.8	0.3	32	0.15	0.012	9
1878075	Soil	2.9	8.1	22.6	40	<0.1	10.6	8.0	289	1.51	35.5	29.5	6.8	18	<0.1	2.0	0.4	41	0.22	0.015	11
1878076	Soil	2.5	12.9	26.3	48	0.1	11.5	6.7	146	1.84	44.6	7.9	8.2	23	<0.1	2.7	0.5	41	0.30	0.022	14
1878077	Soil	6.1	14.1	21.1	41	0.2	10.9	5.8	189	1.62	130.8	17.7	10.4	24	0.1	4.9	0.4	39	0.29	0.020	18
1878078	Soil	12.5	11.8	32.8	32	<0.1	7.9	3.9	115	1.71	194.8	5.5	10.7	23	<0.1	7.4	0.4	32	0.23	0.016	15
1878079	Soil	1.9	11.9	19.1	44	<0.1	14.6	6.5	466	2.00	84.2	2.4	7.1	27	<0.1	5.6	0.5	56	0.32	0.021	12
1878080	Soil	1.0	12.9	13.0	31	<0.1	8.8	5.3	222	1.42	24.8	1.3	6.0	16	<0.1	2.6	0.3	31	0.22	0.021	13
1878081	Soil	1.3	15.3	39.9	42	0.4	8.8	4.1	100	1.29	24.1	552.9	10.6	21	<0.1	3.0	0.4	31	0.22	0.019	27
1878082	Soil	2.7	9.5	14.4	38	0.3	5.7	3.0	241	1.72	21.4	8.2	2.5	10	<0.1	1.3	0.2	54	0.09	0.013	6
1878083	Soil	1.4	4.1	8.3	11	<0.1	1.7	1.3	54	0.73	11.0	5.5	1.7	6	<0.1	0.9	0.1	21	0.04	0.008	3
1878084	Soil	2.5	11.1	16.7	47	0.2	10.0	5.7	373	1.83	26.2	4.1	2.9	20	0.2	1.6	0.2	50	0.17	0.017	7
1878085	Soil	3.1	15.6	23.1	34	0.2	9.8	4.7	115	2.52	31.9	10.1	5.4	14	<0.1	2.1	0.3	69	0.13	0.015	9
1878086	Soil	5.3	12.0	19.4	41	<0.1	10.3	6.0	196	2.39	71.2	8.1	5.9	16	<0.1	4.1	0.3	64	0.12	0.012	8
1878087	Soil	2.0	18.1	22.9	54	0.2	11.3	4.4	104	1.84	115.8	14.3	12.7	24	<0.1	11.7	0.5	35	0.33	0.025	20
1878088	Soil	1.3	13.4	22.8	52	<0.1	9.8	5.3	128	1.53	74.5	10.1	11.2	21	0.1	10.2	0.7	35	0.25	0.021	13
1878089	Soil	1.2	11.9	19.5	49	<0.1	9.5	8.6	271	1.67	45.4	5.1	8.3	19	<0.1	6.0	0.4	43	0.27	0.018	12
1878090	Soil	1.1	7.2	24.4	40	<0.1	6.7	3.3	213	1.07	8.2	4.2	11.6	13	0.1	0.5	0.4	28	0.31	0.019	22



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1878061	Soil	38	0.45	161	0.086	<1	2.73	0.018	0.05	0.1	<0.01	3.7	0.1	<0.05	6	<0.5	<0.2	
1878062	Soil	5	0.07	26	0.003	<1	0.55	0.017	0.21	0.2	0.01	0.9	0.2	0.15	2	<0.5	<0.2	
1878063	Soil	34	0.39	133	0.059	<1	2.54	0.032	0.13	0.4	0.07	5.6	0.2	<0.05	7	<0.5	<0.2	
1878064	Soil	29	0.41	126	0.057	<1	1.87	0.042	0.10	0.2	0.07	4.6	0.3	<0.05	5	<0.5	<0.2	
1878065	Soil	23	0.37	98	0.080	1	1.13	0.032	0.09	0.2	0.02	2.7	0.1	<0.05	3	<0.5	<0.2	
1878066	Soil	29	0.35	119	0.059	<1	1.76	0.032	0.16	0.2	0.04	3.7	0.3	<0.05	5	<0.5	<0.2	
1878067	Soil	18	0.28	94	0.056	<1	1.11	0.034	0.12	0.2	0.02	2.1	0.2	<0.05	4	<0.5	<0.2	
1878068	Soil	14	0.17	69	0.026	<1	1.09	0.022	0.08	0.1	0.03	1.7	0.2	<0.05	4	<0.5	<0.2	
1878069	Soil	9	0.12	43	0.019	<1	0.55	0.021	0.12	0.2	0.03	1.2	0.2	<0.05	2	<0.5	<0.2	
1878070	Soil	23	0.32	119	0.058	<1	1.53	0.017	0.12	0.3	0.03	2.7	0.2	<0.05	5	0.6	<0.2	
1878071	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878072	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878073	Soil	21	0.33	97	0.062	2	1.01	0.020	0.09	0.2	0.03	2.9	0.2	<0.05	3	0.5	<0.2	
1878074	Soil	13	0.21	83	0.034	1	0.97	0.013	0.08	0.2	0.02	1.4	0.2	<0.05	3	<0.5	<0.2	
1878075	Soil	20	0.33	84	0.051	1	1.14	0.019	0.11	0.2	0.02	2.0	0.2	<0.05	4	<0.5	<0.2	
1878076	Soil	23	0.35	95	0.044	3	1.64	0.022	0.14	0.3	0.05	2.9	0.3	<0.05	5	<0.5	<0.2	
1878077	Soil	22	0.33	97	0.044	2	1.23	0.022	0.12	0.3	0.12	2.9	0.4	<0.05	4	0.8	<0.2	
1878078	Soil	15	0.22	89	0.025	2	1.09	0.023	0.14	0.3	0.04	1.9	0.4	0.08	4	0.6	<0.2	
1878079	Soil	27	0.39	131	0.067	1	1.45	0.034	0.11	0.3	0.03	2.8	0.3	<0.05	5	0.7	<0.2	
1878080	Soil	17	0.20	68	0.028	<1	1.34	0.023	0.08	0.2	0.02	2.8	0.2	<0.05	5	<0.5	<0.2	
1878081	Soil	17	0.22	71	0.044	1	1.08	0.024	0.11	0.1	0.06	2.9	0.4	<0.05	3	0.5	<0.2	
1878082	Soil	12	0.12	56	0.036	<1	1.12	0.012	0.05	<0.1	<0.01	1.3	0.2	<0.05	7	0.6	<0.2	
1878083	Soil	4	0.05	33	0.024	<1	0.44	0.014	0.04	<0.1	0.01	0.5	<0.1	<0.05	3	<0.5	<0.2	
1878084	Soil	19	0.28	124	0.039	<1	1.34	0.015	0.07	0.1	0.02	1.7	0.2	<0.05	5	<0.5	<0.2	
1878085	Soil	24	0.23	110	0.041	<1	2.03	0.011	0.06	0.1	0.01	2.4	0.2	<0.05	7	<0.5	<0.2	
1878086	Soil	24	0.28	96	0.039	<1	1.96	0.013	0.07	0.2	0.01	2.6	0.3	<0.05	6	<0.5	<0.2	
1878087	Soil	24	0.32	89	0.024	<1	1.94	0.028	0.18	0.3	0.23	4.0	0.6	0.08	6	0.7	<0.2	
1878088	Soil	22	0.32	68	0.027	<1	1.47	0.039	0.15	0.2	0.09	2.7	0.5	0.08	5	<0.5	<0.2	
1878089	Soil	20	0.30	69	0.027	<1	1.47	0.032	0.11	0.3	0.06	2.8	0.3	<0.05	5	<0.5	<0.2	
1878090	Soil	13	0.19	37	0.029	<1	0.97	0.069	0.11	0.3	0.03	1.6	0.2	<0.05	3	0.5	<0.2	



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Method Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1878091	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
1878092	Soil		0.6	8.0	10.3	21	<0.1	5.7	2.9	73	1.21	3.1	<0.5	5.3	11	0.2	0.2	0.2	34	0.09	0.012	6
1878093	Soil		0.6	6.2	9.8	22	<0.1	5.8	3.1	151	1.13	2.7	<0.5	3.5	12	<0.1	0.2	0.2	36	0.13	0.014	6
1878094	Soil		0.9	16.4	14.0	42	<0.1	17.0	7.5	189	2.63	7.0	1.9	8.5	17	0.1	0.4	0.2	69	0.21	0.009	10
1878095	Soil		0.8	8.9	8.7	30	<0.1	11.0	4.9	222	1.94	5.8	<0.5	2.6	13	<0.1	0.2	0.2	52	0.11	0.013	5
1878096	Soil		0.7	8.1	17.2	28	<0.1	6.8	2.9	139	1.49	4.4	0.6	6.4	15	0.3	0.2	4.0	41	0.11	0.011	12
1878097	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878098	Soil		0.5	13.5	19.5	40	0.1	12.5	6.1	371	1.58	3.3	2.5	9.1	20	0.2	0.2	0.6	38	0.33	0.029	24
1878099	Soil		0.4	9.0	19.6	38	<0.1	10.7	4.7	195	1.55	3.3	1.3	10.1	20	0.2	0.2	0.4	40	0.26	0.017	17
1878100	Soil		0.6	11.5	18.9	40	0.1	12.0	6.0	234	1.36	2.6	2.4	5.3	17	0.2	0.2	0.3	32	0.29	0.039	15
1878101	Soil		0.4	9.0	16.7	40	<0.1	11.1	8.2	315	1.37	2.7	<0.5	5.4	20	0.1	0.2	0.3	33	0.26	0.029	11
1878102	Soil		0.4	10.2	17.4	39	<0.1	12.5	4.9	120	1.51	3.1	0.7	4.9	19	0.1	0.2	0.4	31	0.32	0.034	13
1878103	Soil		0.5	10.0	14.2	34	<0.1	11.0	4.7	125	1.33	2.5	2.1	4.3	18	0.1	0.2	0.3	30	0.27	0.037	10
1878104	Soil		0.7	10.6	14.7	41	<0.1	11.6	4.0	113	1.49	3.9	2.6	4.4	17	0.2	0.2	0.3	35	0.24	0.040	12
1878105	Soil		0.7	16.0	11.4	46	<0.1	14.6	7.5	228	1.84	8.1	22.2	6.3	29	<0.1	0.6	0.2	49	0.42	0.051	20
1878106	Soil		1.1	14.1	13.0	46	<0.1	13.3	7.6	319	1.85	11.4	12.8	4.7	28	<0.1	0.6	0.2	50	0.38	0.048	13
1878107	Soil		1.0	16.5	13.5	47	0.1	13.7	6.7	251	1.84	7.2	25.3	3.8	30	0.1	0.4	0.2	51	0.38	0.041	12
1878108	Soil		1.1	19.7	15.9	47	0.1	15.6	7.9	384	1.95	7.7	46.9	5.2	32	0.1	0.5	0.2	46	0.41	0.044	15
1878109	Soil		0.8	19.9	17.2	55	<0.1	14.6	8.5	224	1.94	7.3	21.0	7.1	33	0.1	0.6	0.3	57	0.41	0.055	16
1878110	Soil		1.6	8.4	24.8	35	<0.1	8.1	3.7	121	1.50	7.7	2.2	6.4	15	0.1	0.3	0.5	52	0.12	0.013	6
1878111	Soil		0.8	28.0	20.7	86	<0.1	18.0	6.9	197	1.87	34.1	3.3	9.6	28	0.3	1.7	0.4	54	0.47	0.057	15
1878112	Soil		1.5	18.5	17.9	69	<0.1	13.8	5.9	183	1.61	51.4	1.6	7.1	20	0.2	1.9	0.5	50	0.28	0.028	11
1878113	Soil		1.8	17.5	22.6	67	0.2	11.4	6.4	158	1.85	38.7	55.5	10.1	20	0.1	3.8	0.5	45	0.21	0.024	13
1878114	Soil		1.0	17.2	21.3	34	0.3	6.3	2.4	45	1.21	49.3	45.4	1.3	16	0.1	1.3	0.5	19	0.16	0.047	13
1878115	Soil		0.9	11.9	9.8	24	0.5	4.9	2.5	49	0.96	12.8	109.0	0.7	16	<0.1	1.7	0.3	18	0.15	0.041	10
1878116	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878117	Soil		0.7	7.0	6.0	13	0.2	1.8	1.4	43	0.71	6.9	0.5	0.5	5	<0.1	0.2	<0.1	19	0.04	0.010	3
1878118	Soil		2.0	12.3	28.6	61	0.4	10.4	6.8	286	1.68	37.4	14.1	6.3	21	0.2	0.7	0.3	44	0.19	0.032	28
1878119	Soil		2.4	12.6	22.1	61	0.3	10.0	10.0	358	1.67	20.0	15.5	6.3	17	0.1	0.6	0.3	49	0.18	0.031	16
1878120	Soil		0.8	11.9	12.8	49	0.1	10.8	4.6	134	1.54	6.0	3.3	4.8	18	0.2	0.3	0.2	40	0.22	0.041	17

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.



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Project: HS
Report Date: October 04, 2018

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1878091	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878092	Soil	11	0.11	36	0.043	<1	1.19	0.039	0.08	0.1	0.03	1.1	0.2	<0.05	4	<0.5	<0.2
1878093	Soil	11	0.12	41	0.046	<1	0.90	0.030	0.06	0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
1878094	Soil	33	0.39	77	0.082	<1	2.43	0.023	0.05	0.1	0.01	2.9	0.1	<0.05	5	<0.5	<0.2
1878095	Soil	18	0.24	88	0.056	<1	1.65	0.014	0.05	0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
1878096	Soil	13	0.15	57	0.042	<1	1.35	0.023	0.07	0.2	0.03	1.3	0.2	<0.05	5	<0.5	<0.2
1878097	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878098	Soil	22	0.31	67	0.033	<1	1.96	0.059	0.09	0.1	0.05	3.5	0.2	<0.05	6	0.6	<0.2
1878099	Soil	20	0.25	61	0.043	<1	1.81	0.068	0.10	0.1	0.03	2.3	0.2	<0.05	5	<0.5	<0.2
1878100	Soil	21	0.29	59	0.047	1	1.77	0.046	0.08	0.1	0.05	2.8	0.1	<0.05	5	<0.5	<0.2
1878101	Soil	21	0.31	57	0.061	<1	1.54	0.060	0.09	0.1	0.04	2.7	0.1	<0.05	5	<0.5	<0.2
1878102	Soil	22	0.31	54	0.063	<1	1.58	0.050	0.07	0.2	0.06	3.5	0.2	<0.05	5	<0.5	<0.2
1878103	Soil	20	0.28	49	0.057	<1	1.46	0.045	0.06	0.2	0.05	2.7	0.1	<0.05	4	<0.5	<0.2
1878104	Soil	22	0.29	55	0.056	<1	1.69	0.035	0.07	0.2	0.05	2.8	0.2	<0.05	5	<0.5	<0.2
1878105	Soil	23	0.38	108	0.061	<1	1.35	0.030	0.06	0.2	0.03	3.4	0.2	<0.05	4	<0.5	<0.2
1878106	Soil	26	0.34	116	0.057	<1	1.55	0.031	0.06	0.2	0.05	3.9	0.2	<0.05	5	<0.5	<0.2
1878107	Soil	25	0.35	124	0.066	<1	1.51	0.030	0.05	0.1	0.04	3.4	0.2	<0.05	5	<0.5	<0.2
1878108	Soil	27	0.36	124	0.060	<1	1.75	0.035	0.06	0.1	0.06	4.3	0.1	<0.05	5	<0.5	<0.2
1878109	Soil	29	0.46	114	0.079	2	1.38	0.041	0.05	0.2	0.05	4.0	0.1	<0.05	4	<0.5	<0.2
1878110	Soil	18	0.23	59	0.063	<1	1.31	0.012	0.08	0.3	0.01	1.6	0.2	<0.05	5	<0.5	<0.2
1878111	Soil	25	0.41	72	0.064	1	1.48	0.034	0.07	0.2	0.09	4.3	0.3	<0.05	4	0.8	<0.2
1878112	Soil	24	0.35	59	0.064	1	1.43	0.031	0.07	0.3	0.07	2.3	0.2	<0.05	5	<0.5	<0.2
1878113	Soil	25	0.30	68	0.038	<1	1.42	0.022	0.12	0.3	0.15	3.0	0.4	<0.05	5	<0.5	<0.2
1878114	Soil	15	0.13	65	0.019	1	0.98	0.010	0.08	0.2	0.07	1.3	0.3	<0.05	4	<0.5	<0.2
1878115	Soil	14	0.11	62	0.028	<1	0.74	0.014	0.05	<0.1	0.11	1.3	0.2	<0.05	4	<0.5	<0.2
1878116	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878117	Soil	5	0.05	19	0.028	<1	0.34	0.018	0.03	<0.1	0.02	0.3	<0.1	<0.05	3	<0.5	<0.2
1878118	Soil	20	0.28	90	0.033	<1	1.36	0.014	0.10	0.2	0.07	2.3	0.4	<0.05	6	<0.5	<0.2
1878119	Soil	22	0.30	75	0.036	1	1.43	0.013	0.08	0.2	0.06	2.3	0.3	<0.05	5	<0.5	<0.2
1878120	Soil	22	0.30	96	0.051	<1	1.30	0.015	0.05	0.2	0.05	2.6	0.1	<0.05	5	<0.5	<0.2



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Method Analyte	Unit	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.01	0.001	0.001	0.001	1
1878121	Soil	0.6	9.3	14.1	44	<0.1	8.4	5.1	166	1.19	2.6	1.6	8.7	17	0.2	0.2	0.3	34	0.24	0.032	24	
1878122	Soil	0.8	9.8	16.8	39	<0.1	11.4	5.8	170	1.79	3.2	<0.5	4.0	17	0.1	0.3	0.3	53	0.13	0.010	7	
1878123	Soil	1.2	15.9	19.1	62	0.1	16.2	9.0	277	2.70	5.9	1.2	5.6	22	0.2	0.4	0.3	75	0.16	0.014	13	
1878124	Soil	0.8	7.8	24.6	48	<0.1	6.9	3.2	118	0.92	11.9	4.9	13.1	19	0.2	0.5	0.5	27	0.16	0.019	19	
1878125	Soil	0.7	9.3	19.4	38	<0.1	10.6	4.8	149	1.44	7.9	2.8	10.7	36	<0.1	0.5	0.4	42	0.27	0.018	15	
1878126	Soil	1.0	11.8	24.5	41	<0.1	10.4	6.6	268	1.52	4.8	<0.5	9.4	20	0.1	0.3	0.7	47	0.26	0.018	18	
1878127	Soil	0.6	8.7	25.3	28	<0.1	8.2	3.9	180	1.18	4.6	1.0	15.8	28	<0.1	0.3	0.6	35	0.29	0.010	15	
1878128	Soil	0.8	13.2	24.0	35	<0.1	13.1	6.5	347	1.77	4.2	<0.5	9.3	29	<0.1	0.3	0.3	50	0.29	0.011	16	
1878129	Soil	0.6	13.6	14.8	42	<0.1	14.7	9.2	238	1.83	4.7	3.4	9.6	27	<0.1	0.4	0.3	53	0.23	0.008	15	
1878130	Soil	0.8	30.1	17.7	54	<0.1	21.8	10.6	211	2.95	9.0	2.0	20.2	22	<0.1	0.4	0.2	82	0.19	0.010	42	
1878131	Soil	0.9	37.0	15.5	59	<0.1	28.1	11.3	431	3.15	11.3	1.0	15.3	39	<0.1	0.5	0.2	83	0.30	0.012	43	
1878132	Soil	2.1	12.4	16.5	44	<0.1	12.4	5.9	164	1.91	31.9	2.5	5.7	19	<0.1	3.0	0.4	56	0.18	0.009	7	
1878133	Soil	0.7	6.1	7.5	14	<0.1	2.2	1.1	36	0.54	6.6	3.3	2.2	7	<0.1	0.3	0.2	14	0.05	0.007	4	
1878134	Soil	1.2	15.0	30.8	48	0.3	7.3	3.3	91	1.15	50.3	67.1	12.1	19	0.1	2.1	0.5	25	0.18	0.020	22	
1878135	Soil	2.0	12.0	19.8	24	0.8	5.9	2.9	21	2.16	83.1	289.3	3.3	22	0.2	1.9	0.7	26	0.19	0.092	23	
1878136	Soil	0.9	16.2	16.1	46	0.1	13.2	6.6	242	1.96	7.2	10.2	9.5	23	0.2	0.5	0.3	50	0.26	0.035	16	
1878137	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878138	Soil	1.1	16.6	27.2	40	0.8	13.2	4.2	173	1.94	42.9	377.5	14.1	22	0.2	4.3	1.0	20	0.18	0.080	28	
1878139	Soil	1.7	20.3	16.2	41	1.0	12.4	5.8	152	1.52	16.8	228.8	2.5	33	<0.1	2.2	0.4	27	0.32	0.064	21	
1878140	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1878151	Soil	1.2	14.6	13.1	41	<0.1	15.0	6.8	187	2.14	6.2	0.8	4.7	22	0.1	0.4	0.2	61	0.17	0.011	8	
1878152	Soil	0.5	7.7	12.1	26	<0.1	7.3	3.9	244	1.25	2.5	<0.5	6.0	18	<0.1	0.3	0.2	34	0.17	0.013	10	
1878153	Soil	0.5	10.3	16.8	40	<0.1	10.4	4.8	146	1.34	3.5	<0.5	10.2	24	<0.1	0.4	0.3	42	0.25	0.025	16	
1878154	Soil	0.8	18.1	12.2	45	<0.1	17.1	7.2	255	2.27	7.6	2.3	9.5	27	<0.1	0.6	0.2	64	0.31	0.013	23	
1878155	Soil	1.3	8.9	24.8	73	<0.1	7.0	3.1	192	1.20	8.0	1.2	5.5	14	0.2	0.8	0.4	30	0.26	0.042	9	
1878156	Soil	1.0	9.3	27.2	61	<0.1	10.5	4.6	157	1.44	11.3	1.6	10.2	19	0.1	1.6	0.5	42	0.27	0.017	14	
1878157	Soil	0.7	12.8	22.2	51	<0.1	11.7	6.8	182	1.50	7.2	1.5	11.3	27	<0.1	1.3	0.3	51	0.31	0.019	15	
1878158	Soil	1.6	19.7	15.1	43	<0.1	10.3	5.6	164	1.39	6.2	1.8	3.7	24	0.2	1.1	0.3	39	0.35	0.030	10	
1878159	Soil	0.9	18.6	16.3	56	<0.1	15.7	9.0	221	2.09	7.3	1.4	8.2	31	0.2	1.5	0.3	59	0.37	0.033	17	
1878160	Soil	1.0	18.9	16.5	62	<0.1	15.3	7.8	217	2.20	10.3	<0.5	9.6	30	0.1	1.5	0.4	55	0.36	0.026	15	



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1878121	Soil	17	0.25	77	0.054	<1	1.12	0.015	0.04	0.3	0.04	2.1	<0.1	<0.05	4	<0.5	<0.2
1878122	Soil	19	0.26	100	0.059	<1	1.42	0.018	0.03	0.1	0.02	1.5	0.1	<0.05	6	<0.5	<0.2
1878123	Soil	30	0.33	136	0.078	<1	2.05	0.013	0.03	<0.1	0.02	2.7	0.1	<0.05	8	<0.5	<0.2
1878124	Soil	13	0.18	53	0.042	<1	0.65	0.014	0.10	0.2	0.01	1.2	0.2	<0.05	2	<0.5	<0.2
1878125	Soil	20	0.34	86	0.062	<1	1.08	0.027	0.08	0.2	0.01	2.2	0.2	<0.05	3	<0.5	<0.2
1878126	Soil	19	0.25	53	0.040	<1	1.27	0.023	0.08	0.3	0.02	2.0	0.2	<0.05	4	<0.5	<0.2
1878127	Soil	16	0.24	49	0.041	<1	0.88	0.060	0.10	0.3	0.02	1.5	0.2	<0.05	3	<0.5	<0.2
1878128	Soil	22	0.32	81	0.080	<1	1.21	0.023	0.07	0.2	0.01	2.4	0.1	<0.05	4	<0.5	<0.2
1878129	Soil	27	0.39	120	0.069	<1	1.27	0.019	0.04	0.1	0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
1878130	Soil	50	0.44	122	0.110	<1	2.34	0.018	0.04	0.1	0.03	8.4	<0.1	<0.05	6	<0.5	<0.2
1878131	Soil	47	0.58	232	0.101	<1	2.40	0.023	0.05	0.1	0.04	8.7	<0.1	<0.05	7	<0.5	<0.2
1878132	Soil	25	0.28	78	0.057	<1	1.65	0.018	0.06	0.1	0.04	1.9	0.3	<0.05	5	<0.5	<0.2
1878133	Soil	5	0.05	23	0.015	<1	0.53	0.021	0.05	<0.1	0.02	0.5	0.2	<0.05	3	<0.5	<0.2
1878134	Soil	15	0.21	58	0.039	<1	0.81	0.013	0.10	0.3	0.09	2.2	0.5	<0.05	3	<0.5	<0.2
1878135	Soil	10	0.07	73	0.010	<1	1.31	0.011	0.24	0.4	0.10	1.5	0.5	<0.05	4	<0.5	<0.2
1878136	Soil	24	0.34	104	0.051	1	1.57	0.014	0.07	0.2	0.05	3.3	0.1	<0.05	5	<0.5	<0.2
1878137	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1878138	Soil	21	0.15	127	0.016	<1	2.06	0.025	0.19	<0.1	0.10	4.5	0.7	<0.05	8	<0.5	<0.2
1878139	Soil	25	0.26	133	0.049	<1	1.61	0.015	0.09	0.2	0.10	3.1	0.2	<0.05	6	<0.5	<0.2
1878140	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1878151	Soil	24	0.27	166	0.081	<1	1.75	0.017	0.03	0.1	0.01	2.5	0.1	<0.05	6	<0.5	<0.2
1878152	Soil	14	0.17	57	0.052	<1	1.08	0.039	0.05	0.2	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
1878153	Soil	20	0.29	57	0.062	<1	1.11	0.049	0.07	0.3	0.04	2.0	0.1	<0.05	3	<0.5	<0.2
1878154	Soil	32	0.49	164	0.088	<1	1.80	0.027	0.04	0.1	0.02	4.4	0.1	<0.05	5	<0.5	<0.2
1878155	Soil	13	0.15	39	0.034	<1	0.96	0.024	0.10	0.3	0.03	1.3	0.2	<0.05	3	<0.5	<0.2
1878156	Soil	19	0.28	51	0.051	2	1.02	0.049	0.10	0.3	0.03	2.0	0.2	<0.05	4	<0.5	<0.2
1878157	Soil	25	0.31	77	0.079	1	1.18	0.045	0.07	0.2	0.06	3.2	0.2	<0.05	3	<0.5	<0.2
1878158	Soil	19	0.20	71	0.037	2	1.30	0.024	0.08	0.2	0.03	2.3	0.2	<0.05	5	<0.5	<0.2
1878159	Soil	27	0.37	104	0.071	2	1.64	0.033	0.08	0.2	0.03	3.4	0.2	<0.05	5	<0.5	<0.2
1878160	Soil	30	0.40	98	0.072	2	1.64	0.037	0.09	0.2	0.04	4.3	0.2	<0.05	5	<0.5	<0.2

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.



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Project: HS
Report Date: October 04, 2018

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1878161	Soil	0.8	22.2	17.2	49	<0.1	18.0	8.1	204	1.97	8.3	5.4	8.8	32	0.1	1.4	0.3	53	0.42	0.035	17
1878162	Soil	0.8	22.5	18.4	66	<0.1	17.1	8.2	201	2.09	9.2	2.6	7.8	34	0.2	1.3	0.4	52	0.45	0.035	16
1878163	Soil	0.7	16.5	19.2	63	<0.1	13.0	8.7	229	1.92	8.8	7.0	8.1	28	0.1	1.2	0.3	52	0.33	0.035	14
1878164	Soil	1.2	19.3	17.4	59	<0.1	15.4	10.0	372	1.95	12.4	1.9	6.6	30	0.2	1.5	0.3	56	0.43	0.037	14
1878165	Soil	1.1	24.3	19.3	67	<0.1	20.0	10.7	390	2.16	15.6	3.4	8.0	38	0.2	2.0	0.3	56	0.54	0.051	18
1878166	Soil	0.8	15.9	20.1	56	<0.1	14.1	10.6	561	1.84	18.0	1.6	8.4	35	0.2	2.4	0.3	53	0.43	0.042	15
1878167	Soil	0.9	17.2	14.5	62	<0.1	14.3	6.5	194	1.98	21.1	5.4	6.7	34	0.2	4.1	0.3	54	0.45	0.044	17
1878168	Soil	0.6	23.9	19.8	48	<0.1	15.9	7.4	185	1.97	9.0	4.1	12.1	38	0.2	0.9	0.3	52	0.44	0.032	33
1878169	Soil	0.9	29.3	21.2	55	0.1	19.6	11.6	305	2.63	13.1	2.8	11.3	49	0.2	0.9	0.3	68	0.47	0.039	36
1878170	Soil	1.4	17.1	19.8	54	<0.1	14.3	6.6	212	2.83	288.5	2.7	9.7	32	0.1	5.8	0.4	62	0.34	0.039	19
1878171	Soil	1.3	17.0	18.6	57	<0.1	16.4	8.5	271	2.28	99.6	5.4	9.5	29	<0.1	5.5	0.3	58	0.31	0.026	23
1878172	Soil	0.9	10.1	16.3	53	<0.1	12.5	8.1	321	1.97	105.0	4.1	6.7	30	0.2	3.6	0.3	54	0.38	0.028	13
1878173	Soil	0.7	9.0	21.9	35	<0.1	7.7	3.9	128	1.21	34.2	1.8	13.6	29	<0.1	2.2	0.4	36	0.26	0.016	20
1878174	Soil	1.1	13.9	16.8	43	<0.1	12.4	6.8	191	2.24	7.2	2.6	6.3	18	0.1	0.3	0.3	74	0.18	0.019	11
1878175	Soil	1.0	13.2	11.4	41	<0.1	8.9	5.2	159	1.96	5.1	1.6	4.8	11	<0.1	0.4	0.2	48	0.08	0.020	7



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1878161	Soil	29	0.45	107	0.089	2	1.48	0.046	0.06	0.2	0.03	4.4	0.2	<0.05	4	<0.5	<0.2
1878162	Soil	29	0.39	110	0.067	2	2.11	0.040	0.07	0.2	0.04	4.5	0.2	<0.05	6	<0.5	<0.2
1878163	Soil	26	0.35	89	0.075	1	1.60	0.037	0.06	0.2	0.03	3.5	0.2	<0.05	5	<0.5	<0.2
1878164	Soil	26	0.35	91	0.075	1	1.53	0.034	0.06	0.2	0.06	3.9	0.2	<0.05	5	<0.5	<0.2
1878165	Soil	32	0.43	133	0.088	2	1.68	0.038	0.07	0.2	0.05	5.1	0.2	<0.05	5	<0.5	<0.2
1878166	Soil	25	0.33	116	0.077	2	1.31	0.042	0.08	0.2	0.06	3.6	0.2	<0.05	4	<0.5	<0.2
1878167	Soil	27	0.38	109	0.059	1	1.50	0.034	0.08	0.2	0.09	4.3	0.2	<0.05	5	<0.5	<0.2
1878168	Soil	32	0.30	172	0.077	1	1.96	0.017	0.08	0.1	0.05	6.3	0.2	<0.05	6	<0.5	<0.2
1878169	Soil	35	0.37	235	0.091	2	2.59	0.021	0.08	0.2	0.07	7.0	0.2	<0.05	7	0.5	<0.2
1878170	Soil	28	0.31	120	0.039	<1	2.19	0.026	0.09	0.2	0.10	4.6	0.4	<0.05	6	0.5	<0.2
1878171	Soil	32	0.41	124	0.079	2	1.61	0.024	0.09	0.2	0.04	3.8	0.3	<0.05	5	<0.5	<0.2
1878172	Soil	23	0.37	120	0.078	1	1.38	0.016	0.13	0.2	0.04	2.5	0.3	<0.05	5	<0.5	<0.2
1878173	Soil	17	0.23	78	0.058	<1	0.87	0.056	0.10	0.2	0.03	2.0	0.3	<0.05	3	<0.5	<0.2
1878174	Soil	25	0.30	109	0.085	<1	2.04	0.013	0.07	0.1	0.02	2.8	0.1	<0.05	8	<0.5	<0.2
1878175	Soil	15	0.16	57	0.072	<1	1.56	0.018	0.03	0.1	0.04	1.7	<0.1	<0.05	7	<0.5	<0.2



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QUALITY CONTROL REPORT

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
1878002	Soil	0.9	9.3	22.2	34	<0.1	8.5	3.6	103	1.25	45.5	4.4	8.7	21	0.1	4.2	0.5	34	0.22	0.009	9
REP 1878002	QC	1.0	9.0	22.7	37	<0.1	8.6	3.6	103	1.26	46.5	4.6	9.3	20	<0.1	4.2	0.5	36	0.21	0.009	9
1878037	Soil	0.9	16.7	15.1	51	0.2	12.5	6.3	168	2.06	22.9	176.7	5.9	31	0.1	1.3	0.4	46	0.40	0.041	15
REP 1878037	QC	0.9	16.2	15.4	53	0.1	12.5	6.6	161	2.10	23.1	9.6	6.6	32	<0.1	1.4	0.3	48	0.40	0.045	16
1878074	Soil	2.1	7.7	16.4	36	0.1	7.0	4.8	462	1.18	16.5	20.9	2.8	14	0.1	0.8	0.3	32	0.15	0.012	9
REP 1878074	QC	2.3	8.1	17.2	37	0.1	7.3	5.1	485	1.25	16.8	16.1	3.2	15	0.1	0.9	0.3	32	0.16	0.012	9
1878110	Soil	1.6	8.4	24.8	35	<0.1	8.1	3.7	121	1.50	7.7	2.2	6.4	15	0.1	0.3	0.5	52	0.12	0.013	6
REP 1878110	QC	1.5	8.6	25.1	36	<0.1	8.8	3.9	119	1.57	7.8	1.0	6.5	14	0.1	0.3	0.5	52	0.12	0.013	7
1878156	Soil	1.0	9.3	27.2	61	<0.1	10.5	4.6	157	1.44	11.3	1.6	10.2	19	0.1	1.6	0.5	42	0.27	0.017	14
REP 1878156	QC	1.1	10.0	26.1	65	<0.1	10.1	4.7	143	1.45	12.2	1.4	10.0	19	0.2	1.5	0.4	48	0.29	0.019	13
Reference Materials																					
STD DS11	Standard	13.1	159.3	140.9	358	1.7	72.2	15.7	957	3.05	45.2	119.5	9.2	59	2.8	8.9	12.5	53	1.01	0.075	19
STD DS11	Standard	13.0	163.2	140.5	337	1.7	82.6	15.2	919	2.88	46.5	64.6	7.6	66	2.6	8.5	12.4	52	0.92	0.076	17
STD DS11	Standard	13.8	157.9	139.2	350	1.7	85.3	15.2	1057	3.22	44.5	71.1	7.8	63	2.4	7.7	11.7	57	1.04	0.079	17
STD DS11	Standard	14.4	155.1	137.3	331	1.7	83.9	13.5	1073	3.09	42.5	74.8	7.7	62	2.4	7.2	10.8	51	1.02	0.071	16
STD DS11	Standard	13.2	147.5	134.1	342	1.7	82.8	14.3	1099	3.25	44.9	79.3	6.7	60	2.6	8.1	10.6	51	1.03	0.073	16
STD OXC129	Standard	1.1	29.2	6.7	40	<0.1	75.0	20.8	408	3.04	0.7	193.8	2.2	180	<0.1	<0.1	<0.1	54	0.63	0.099	12
STD OXC129	Standard	1.3	31.0	6.9	39	<0.1	80.4	20.9	436	3.09	<0.5	196.4	2.1	178	<0.1	<0.1	<0.1	58	0.63	0.113	13
STD OXC129	Standard	1.2	27.3	6.2	42	<0.1	79.7	21.0	417	3.13	0.8	216.3	1.9	191	<0.1	<0.1	<0.1	55	0.65	0.104	12
STD OXC129	Standard	1.4	27.2	6.4	42	<0.1	85.6	21.2	424	2.98	<0.5	196.2	1.9	178	<0.1	<0.1	<0.1	57	0.65	0.108	12
STD OXC129	Standard	1.3	27.4	6.2	42	<0.1	80.8	21.6	450	3.27	<0.5	201.2	1.7	187	<0.1	<0.1	<0.1	59	0.64	0.102	12
STD OXC129 Expected		1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102	12.5
STD DS11 Expected		14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701	18.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	0.9	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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QUALITY CONTROL REPORT

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1878002	Soil	18	0.26	58	0.048	1	1.03	0.059	0.09	0.3	0.07	1.8	0.5	<0.05	3	<0.5	<0.2
REP 1878002	QC	18	0.25	58	0.047	<1	1.02	0.060	0.09	0.3	0.06	1.8	0.5	<0.05	3	<0.5	<0.2
1878037	Soil	25	0.37	131	0.048	2	1.72	0.028	0.09	0.1	0.06	4.3	0.2	<0.05	5	<0.5	<0.2
REP 1878037	QC	26	0.36	131	0.052	2	1.77	0.028	0.09	0.2	0.06	4.3	0.2	<0.05	5	<0.5	<0.2
1878074	Soil	13	0.21	83	0.034	1	0.97	0.013	0.08	0.2	0.02	1.4	0.2	<0.05	3	<0.5	<0.2
REP 1878074	QC	14	0.22	84	0.036	2	0.99	0.014	0.08	0.2	<0.01	1.5	0.2	<0.05	4	<0.5	<0.2
1878110	Soil	18	0.23	59	0.063	<1	1.31	0.012	0.08	0.3	0.01	1.6	0.2	<0.05	5	<0.5	<0.2
REP 1878110	QC	18	0.26	57	0.063	<1	1.44	0.012	0.07	0.3	0.02	1.6	0.2	<0.05	5	<0.5	<0.2
1878156	Soil	19	0.28	51	0.051	2	1.02	0.049	0.10	0.3	0.03	2.0	0.2	<0.05	4	<0.5	<0.2
REP 1878156	QC	20	0.29	50	0.061	4	1.07	0.051	0.10	0.3	0.02	2.0	0.3	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS11	Standard	57	0.76	344	0.090	9	1.08	0.064	0.38	3.0	0.27	3.1	4.8	0.23	5	2.2	4.6
STD DS11	Standard	58	0.79	326	0.085	7	1.00	0.064	0.36	2.6	0.25	2.9	5.1	0.16	5	2.5	4.6
STD DS11	Standard	65	0.91	352	0.089	7	1.17	0.072	0.41	3.2	0.27	3.3	4.8	0.31	5	2.8	4.6
STD DS11	Standard	60	0.83	354	0.086	6	1.08	0.068	0.36	2.8	0.26	3.1	4.7	0.29	5	2.2	4.6
STD DS11	Standard	63	0.85	349	0.082	7	1.10	0.068	0.39	3.0	0.28	3.1	5.1	0.34	5	2.3	4.6
STD OXC129	Standard	55	1.60	46	0.389	<1	1.50	0.588	0.36	<0.1	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	52	1.43	44	0.412	<1	1.64	0.565	0.36	<0.1	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	53	1.54	47	0.409	1	1.51	0.560	0.35	<0.1	0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	54	1.53	51	0.426	<1	1.50	0.548	0.34	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	55	1.70	48	0.430	<1	1.60	0.653	0.36	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
STD OXC129 Expected		52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5		
STD DS11 Expected		61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2