



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: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: August 14, 2020
Analysis Start: September 04, 2020
Report Date: September 16, 2020
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CERTIFICATE OF ANALYSIS

WHI20000257.1

CLIENT JOB INFORMATION

Project: Silverhart
Shipment ID:
P.O. Number
Number of Samples: 79

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1
Canada

CC: Kevin Brewer
Vedran Pobric

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	79	Dry at 60C sieve 100g to -80 mesh			WHI
AQ250	79	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
SVRJT	79	Save all or part of Soil Reject			WHI
SHP01	79	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	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001	0.001
1494801	Soil	7.95	12.59	17.18	87.7	731	9.4	4.5	294	1.48	1.1	2.6	2.9	1.5	14.9	0.15	0.10	0.63	27	0.13	0.044	
1494802	Soil	5.80	9.17	20.10	134.8	234	4.7	3.2	145	1.56	1.1	5.8	0.7	2.3	22.1	0.30	0.07	0.35	27	0.23	0.089	
1494803	Soil	4.71	20.19	7.21	143.1	264	6.7	1.2	255	0.48	0.2	12.5	1.2	0.9	129.7	1.38	0.31	0.18	8	2.59	0.085	
1494804	Soil	5.34	12.05	14.12	224.3	879	6.1	3.3	247	1.75	1.0	14.4	1.3	1.1	30.7	0.39	0.14	0.37	27	0.48	0.162	
1494805	Soil	4.49	12.81	18.08	275.8	2715	7.2	3.8	282	1.74	1.1	15.1	1.6	1.0	34.6	0.22	0.15	0.43	28	0.53	0.207	
1494806	Soil	2.91	5.53	15.82	71.2	342	4.2	2.7	162	1.14	0.8	4.4	1.1	2.2	16.5	0.08	0.10	0.33	21	0.24	0.098	
1494807	Soil	8.65	9.12	30.29	82.5	2019	4.8	3.7	431	1.55	0.6	11.8	0.8	0.6	32.0	0.26	0.09	0.59	31	0.37	0.175	
1494808	Soil	5.78	11.15	25.02	278.1	1379	6.6	3.9	295	1.77	1.3	9.1	0.8	0.4	32.1	0.22	0.13	0.69	31	0.39	0.126	
1494809	Soil	9.60	18.01	55.66	317.4	1036	7.8	4.5	452	2.42	2.2	7.4	1.3	1.7	30.2	0.24	0.17	1.27	42	0.36	0.105	
1494810	Soil	2.68	4.93	26.32	108.4	200	2.8	2.6	188	1.34	1.2	2.7	<0.2	2.9	10.2	0.15	0.15	0.56	22	0.12	0.044	
1494811	Soil	2.09	4.30	15.34	111.4	127	3.9	3.0	197	1.44	1.0	1.9	1.0	3.0	15.3	0.12	0.10	0.59	25	0.13	0.039	
1494812	Soil	2.35	5.73	13.65	151.8	74	6.6	3.7	208	1.46	1.3	1.9	1.0	1.8	15.6	0.17	0.09	0.35	27	0.18	0.033	
1494813	Soil	2.11	6.70	17.42	128.2	193	4.2	3.0	180	1.68	1.8	3.3	1.3	2.2	11.4	0.21	0.12	0.34	26	0.11	0.050	
1494814	Soil	4.44	20.77	21.62	275.6	495	9.9	5.0	709	1.47	1.1	5.1	1.2	0.1	29.2	1.91	0.11	0.47	27	0.37	0.142	
1494815	Soil	1.53	5.40	10.32	123.3	94	3.9	3.0	243	1.36	1.2	1.7	1.6	1.0	13.7	0.17	0.08	0.26	21	0.19	0.041	
1494816	Soil	3.11	4.74	11.83	124.8	102	4.1	3.4	210	1.43	1.0	1.7	1.3	4.3	10.6	0.14	0.06	0.30	26	0.07	0.046	
1494817	Soil	4.00	6.58	14.52	161.3	214	4.8	3.6	264	1.63	1.3	2.3	0.4	1.1	10.5	0.28	0.08	0.35	28	0.09	0.059	
1494818	Soil	2.38	4.48	12.46	98.1	117	3.7	2.3	143	1.30	1.5	1.2	1.4	2.5	12.8	0.23	0.10	0.32	24	0.14	0.031	
1494819	Soil	5.16	14.59	18.00	307.7	151	9.7	3.6	291	1.68	1.4	3.3	0.2	3.2	15.6	0.28	0.10	0.61	33	0.20	0.063	
1494820	Soil	0.91	6.71	22.59	74.3	204	5.1	4.1	258	1.67	2.4	2.3	1.0	15.5	14.6	0.17	0.13	0.68	29	0.21	0.102	
1494821	Soil	8.12	19.51	26.16	210.3	327	12.6	5.0	259	2.59	3.4	2.1	1.1	6.3	9.1	0.27	0.22	1.02	38	0.06	0.067	
1494822	Soil	6.79	77.52	290.88	938.9	6711	26.5	11.3	2290	2.85	167.3	6.6	2.4	7.1	24.9	2.81	4.51	4.37	37	0.50	0.132	
1494823	Soil	2.38	11.61	17.91	91.2	91	8.3	3.5	461	1.75	2.6	6.7	1.3	2.2	35.5	0.27	0.14	5.66	26	0.33	0.050	
1494824	Soil	2.45	44.35	17.09	49.0	172	11.3	4.5	142	2.16	1.9	2.4	1.5	7.6	35.1	0.14	0.15	1.18	31	0.11	0.041	
1494825	Soil	2.42	35.81	12.81	85.1	523	10.2	5.7	230	2.17	2.1	2.2	1.2	8.6	8.7	0.19	0.15	0.71	28	0.09	0.030	
1494826	Soil	18.88	127.88	17.60	126.7	73	32.0	11.9	317	10.87	3.0	1.8	1.2	14.9	51.4	0.13	0.13	1.03	106	0.09	0.097	
1494827	Soil	1.53	9.36	13.36	48.8	114	8.4	4.7	178	1.93	1.9	1.8	1.6	1.2	7.4	0.14	0.16	0.37	30	0.05	0.037	
1494828	Soil	2.26	4.97	13.63	60.2	204	4.0	2.7	192	1.51	1.6	1.9	0.9	2.3	6.0	0.25	0.11	0.38	23	0.06	0.029	
1494829	Soil	2.15	7.46	17.31	114.4	429	6.2	4.0	235	1.85	2.3	1.7	1.0	1.4	6.1	0.26	0.19	0.39	30	0.04	0.033	
1494830	Soil	7.15	95.12	16.99	319.8	571	12.5	6.0	285	1.74	2.4	12.8	0.9	0.6	10.6	0.61	0.13	0.60	37	0.10	0.075	



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1
1494801	Soil	26.1	12.2	0.29	84.4	0.043	<20	1.26	0.008	0.08	0.9	1.3	0.15	0.04	19	<0.1	0.02	5.8
1494802	Soil	41.3	9.2	0.27	84.2	0.036	<20	1.63	0.009	0.07	0.4	1.6	0.16	0.08	41	0.4	<0.02	6.3
1494803	Soil	30.7	3.8	0.12	91.0	0.012	<20	0.57	0.010	0.03	0.1	0.6	0.12	0.25	51	0.8	0.02	1.3
1494804	Soil	44.7	9.8	0.29	103.3	0.025	<20	1.59	0.010	0.06	0.2	0.9	0.17	0.11	65	0.5	<0.02	4.9
1494805	Soil	52.7	12.6	0.35	121.9	0.024	<20	2.04	0.007	0.07	0.3	0.8	0.24	0.14	131	0.6	<0.02	6.2
1494806	Soil	42.0	7.1	0.22	56.8	0.042	<20	0.97	0.007	0.07	1.3	1.2	0.12	0.03	14	0.2	<0.02	4.3
1494807	Soil	40.3	11.2	0.21	82.8	0.005	<20	1.70	0.008	0.05	0.5	0.3	0.25	0.16	117	0.4	<0.02	6.6
1494808	Soil	31.0	10.8	0.38	227.0	0.017	<20	2.21	0.010	0.10	0.3	0.6	0.30	0.11	68	0.1	<0.02	8.4
1494809	Soil	30.2	12.3	0.44	201.5	0.035	<20	2.44	0.009	0.15	0.6	1.5	0.43	0.06	37	<0.1	<0.02	9.4
1494810	Soil	30.7	4.6	0.20	69.7	0.035	<20	0.97	0.008	0.08	0.5	1.2	0.11	0.02	11	<0.1	<0.02	4.7
1494811	Soil	33.7	6.1	0.27	50.1	0.048	<20	1.01	0.007	0.08	0.4	1.4	0.11	0.02	<5	<0.1	<0.02	5.4
1494812	Soil	26.4	11.2	0.30	56.7	0.059	<20	0.98	0.008	0.08	1.1	1.3	0.12	0.02	9	<0.1	<0.02	6.8
1494813	Soil	28.1	6.0	0.25	50.7	0.039	<20	1.39	0.007	0.09	0.6	1.2	0.14	0.04	22	0.2	<0.02	6.2
1494814	Soil	19.2	9.9	0.21	94.6	0.007	<20	1.24	0.009	0.08	0.3	0.3	0.09	0.11	26	0.2	<0.02	6.8
1494815	Soil	24.1	5.9	0.22	55.1	0.034	<20	0.83	0.006	0.08	0.5	0.8	0.11	0.02	19	<0.1	<0.02	5.7
1494816	Soil	25.8	6.8	0.28	36.7	0.062	<20	1.06	0.008	0.07	0.7	1.7	0.11	<0.02	10	<0.1	<0.02	6.1
1494817	Soil	27.1	7.6	0.30	42.8	0.042	<20	1.20	0.007	0.08	0.3	0.9	0.14	0.03	14	<0.1	<0.02	6.5
1494818	Soil	24.0	5.3	0.20	32.8	0.043	<20	0.67	0.006	0.06	0.5	1.1	0.09	<0.02	12	<0.1	<0.02	5.1
1494819	Soil	38.2	7.4	0.32	60.1	0.061	<20	1.25	0.009	0.09	0.8	1.7	0.16	<0.02	<5	<0.1	<0.02	6.3
1494820	Soil	37.3	7.9	0.28	58.4	0.067	<20	1.43	0.009	0.14	0.9	2.2	0.16	<0.02	17	0.2	<0.02	5.2
1494821	Soil	24.3	15.8	0.34	56.8	0.055	<20	1.61	0.009	0.14	1.6	2.7	0.20	0.04	25	0.3	0.03	8.7
1494822	Soil	47.8	13.3	0.41	72.0	0.043	<20	1.52	0.009	0.12	10.1	3.5	0.20	0.03	15	0.3	0.05	5.9
1494823	Soil	22.6	11.6	0.22	81.0	0.033	<20	1.31	0.006	0.07	12.8	1.3	0.15	0.05	36	0.2	0.10	6.2
1494824	Soil	26.3	15.1	0.24	57.8	0.056	<20	1.89	0.008	0.10	12.4	2.3	0.19	0.05	35	0.3	0.03	6.6
1494825	Soil	28.1	18.6	0.33	40.8	0.050	<20	1.76	0.006	0.10	1.9	2.6	0.18	0.02	37	0.2	0.03	6.0
1494826	Soil	31.0	115.8	1.48	157.6	0.202	<20	3.85	0.035	0.70	1.9	10.3	0.56	0.42	26	0.3	0.15	20.7
1494827	Soil	20.9	13.1	0.25	31.1	0.040	<20	1.37	0.006	0.09	0.9	1.1	0.13	0.05	28	0.1	<0.02	6.1
1494828	Soil	29.3	6.0	0.19	46.1	0.030	<20	1.02	0.007	0.06	1.4	1.1	0.12	0.03	18	0.1	<0.02	5.4
1494829	Soil	27.3	11.3	0.28	47.2	0.037	<20	1.30	0.007	0.11	1.1	1.2	0.16	0.03	23	<0.1	<0.02	7.0
1494830	Soil	37.1	13.3	0.29	53.4	0.036	<20	1.57	0.008	0.05	0.3	0.9	0.11	0.07	28	0.4	0.02	8.0



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
1494831	Soil	4.23	7.53	17.87	59.9	92	5.1	2.8	142	1.23	1.3	1.9	0.5	0.7	7.1	0.09	0.09	0.26	28	0.08	0.045
1494832	Soil	3.72	15.61	30.34	66.4	244	6.0	2.0	86	0.94	1.2	2.6	0.6	0.2	9.6	0.07	0.11	1.26	22	0.04	0.034
1494834	Soil	4.24	7.25	13.51	112.9	72	4.6	4.1	240	1.60	2.7	1.5	0.9	4.5	8.2	0.10	0.09	0.31	37	0.13	0.052
1494835	Soil	1.98	10.52	14.89	97.5	262	5.4	3.8	325	1.48	1.8	5.1	1.0	14.8	23.2	0.11	0.16	0.26	28	0.41	0.106
1494836	Soil	10.55	30.28	26.07	161.2	264	17.1	10.0	543	2.60	2.2	5.9	0.8	5.8	40.2	0.42	0.21	0.59	48	0.64	0.052
1494837	Soil	8.40	19.23	19.65	124.3	508	10.0	5.1	365	1.78	1.9	7.8	0.8	9.9	35.1	0.23	0.19	0.35	33	0.66	0.100
1494838	Soil	6.33	8.83	20.59	91.8	135	6.5	3.6	230	1.43	0.9	4.9	1.2	10.8	25.9	0.19	0.13	0.35	27	0.47	0.080
1494839	Soil	4.62	6.53	15.21	116.1	145	5.2	3.5	266	1.34	1.1	2.7	1.0	6.2	21.4	0.29	0.08	0.30	25	0.40	0.072
1494840	Soil	6.80	8.61	18.11	86.2	156	7.9	4.1	356	1.62	1.6	2.1	1.0	7.8	27.4	0.19	0.12	0.32	31	0.48	0.098
1494841	Soil	12.19	13.03	23.21	110.7	178	9.9	5.4	625	1.96	1.6	2.2	0.7	2.5	45.0	0.17	0.11	0.61	39	0.62	0.066
1494842	Soil	9.11	15.78	45.43	119.4	325	19.7	6.4	272	2.93	4.3	1.8	1.1	3.4	8.3	0.17	0.22	1.19	41	0.05	0.037
1494843	Soil	2.04	8.76	13.88	120.7	114	14.8	6.1	245	3.10	4.4	0.9	0.3	5.8	9.8	0.14	0.27	0.67	48	0.05	0.102
1494844	Soil	1.99	8.80	18.47	104.9	96	13.2	5.7	208	2.25	4.7	0.8	0.5	5.3	15.7	0.15	0.21	1.20	37	0.07	0.043
1494845	Soil	2.61	16.52	31.68	146.7	143	19.1	5.3	181	3.32	7.2	1.0	1.1	6.5	21.8	0.30	0.24	7.18	48	0.13	0.039
1494846	Soil	1.60	16.33	18.90	137.9	230	24.2	11.1	331	3.85	3.1	1.1	<0.2	2.7	12.3	0.18	0.19	0.58	63	0.10	0.030
1494847	Soil	2.55	11.07	18.41	75.9	53	14.0	8.6	390	3.39	3.3	0.7	9.3	4.2	8.0	0.11	0.31	1.00	64	0.04	0.037
1494848	Soil	2.51	15.40	15.72	93.2	234	15.8	7.0	197	2.83	3.6	1.0	1.1	4.8	12.8	0.19	0.21	1.83	45	0.04	0.038
1494849	Soil	2.48	24.48	32.56	64.7	371	8.8	5.0	216	1.63	3.6	1.9	<0.2	7.3	9.6	0.26	0.23	0.46	26	0.13	0.074
1494850	Soil	1.99	4.88	10.93	45.9	87	4.3	3.3	145	1.84	2.0	0.9	0.2	11.2	5.7	0.06	0.14	0.33	32	0.04	0.016
1811851	Soil	2.82	7.73	13.09	63.7	237	6.7	3.8	199	2.30	2.0	1.3	<0.2	9.6	9.4	0.14	0.16	0.47	36	0.06	0.026
1811852	Soil	19.85	47.50	19.95	190.1	311	18.3	6.8	451	2.67	2.3	6.3	0.2	2.9	28.7	0.57	0.22	0.60	41	0.43	0.089
1811853	Soil	18.41	27.93	18.42	159.1	132	12.4	5.1	230	2.17	1.7	2.9	<0.2	2.4	17.9	0.38	0.11	2.39	36	0.22	0.044
1811854	Soil	7.49	11.67	20.06	92.2	352	7.5	4.7	264	2.28	2.4	1.5	<0.2	5.4	14.2	0.11	0.14	0.56	37	0.12	0.026
1811855	Soil	3.62	3.72	22.23	38.1	243	3.8	2.3	146	1.37	1.5	0.9	0.7	4.0	6.8	0.10	0.12	0.53	34	0.04	0.042
1811856	Soil	2.16	3.86	11.49	37.5	108	3.5	2.5	139	1.47	1.6	1.0	<0.2	8.3	7.2	0.07	0.10	0.33	29	0.05	0.045
1811857	Soil	14.56	18.28	21.32	337.6	338	11.1	5.6	372	2.38	6.8	11.7	0.2	3.7	34.5	0.77	0.23	0.67	41	0.80	0.121
1811858	Soil	3.70	5.15	12.28	62.8	392	3.1	1.9	122	1.00	1.4	1.1	<0.2	1.0	8.3	0.18	0.11	0.63	23	0.06	0.032
1811859	Soil	6.52	17.62	18.26	104.9	294	8.7	4.2	238	1.96	3.4	2.2	0.4	0.7	13.8	0.82	0.22	0.71	32	0.11	0.048
1811860	Soil	3.22	28.23	24.19	123.5	567	5.8	3.3	201	1.65	9.3	3.5	0.7	5.1	10.3	0.23	0.17	0.57	24	0.09	0.044
1811861	Soil	5.70	14.44	17.04	122.2	577	6.5	3.8	252	2.10	2.4	2.1	1.2	11.3	16.6	0.34	0.13	0.72	35	0.14	0.042



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Method	Analyte	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
1494831	Soil	23.6	8.9	0.27	29.2	0.045	<20	0.90	0.007	0.06	0.3	0.8	0.10	0.02	26	<0.1	<0.02	6.8
1494832	Soil	22.2	11.3	0.16	31.7	0.025	<20	0.80	0.007	0.05	0.2	0.5	0.11	<0.02	34	<0.1	<0.02	6.2
1494834	Soil	28.4	7.8	0.41	31.4	0.104	<20	1.06	0.009	0.05	0.3	2.2	0.10	<0.02	10	<0.1	<0.02	7.4
1494835	Soil	47.0	6.8	0.30	61.2	0.071	<20	0.73	0.009	0.10	0.3	2.1	0.12	<0.02	<5	0.2	<0.02	3.9
1494836	Soil	34.7	18.2	0.49	130.1	0.102	<20	1.49	0.009	0.17	0.3	2.8	0.19	0.04	32	0.2	<0.02	7.4
1494837	Soil	47.0	9.4	0.37	103.4	0.070	<20	1.29	0.008	0.16	0.6	2.9	0.21	0.05	29	0.3	<0.02	5.0
1494838	Soil	36.7	9.0	0.33	73.2	0.069	<20	0.97	0.008	0.10	1.2	2.4	0.14	0.03	18	<0.1	<0.02	4.8
1494839	Soil	29.0	7.5	0.29	82.1	0.060	<20	0.97	0.009	0.07	0.3	1.8	0.13	0.04	8	<0.1	<0.02	4.6
1494840	Soil	32.2	10.0	0.34	73.4	0.071	<20	1.02	0.010	0.14	1.4	2.4	0.17	0.02	6	0.2	<0.02	4.6
1494841	Soil	27.0	11.8	0.41	114.6	0.067	<20	1.50	0.010	0.18	0.5	1.8	0.27	0.04	18	<0.1	<0.02	7.6
1494842	Soil	21.5	24.3	0.44	68.4	0.061	<20	2.10	0.007	0.12	2.1	3.1	0.16	0.04	33	<0.1	0.03	7.5
1494843	Soil	16.5	29.5	0.46	62.8	0.090	<20	1.76	0.005	0.17	1.6	3.2	0.19	0.02	39	<0.1	0.02	8.5
1494844	Soil	19.3	22.4	0.36	74.2	0.075	<20	1.17	0.008	0.17	2.6	2.9	0.19	0.02	24	0.1	0.03	7.3
1494845	Soil	18.6	31.8	0.50	65.9	0.090	<20	1.85	0.010	0.20	13.5	4.0	0.19	0.06	20	<0.1	0.22	10.2
1494846	Soil	16.2	55.1	0.82	72.8	0.121	<20	2.68	0.006	0.31	1.2	5.1	0.27	0.03	34	0.1	<0.02	12.1
1494847	Soil	13.9	27.4	0.33	54.4	0.148	<20	1.22	0.004	0.11	1.0	2.4	0.15	0.02	26	<0.1	0.04	11.0
1494848	Soil	16.5	25.0	0.37	60.4	0.077	<20	1.75	0.009	0.17	3.3	2.7	0.18	0.04	29	0.1	0.08	8.7
1494849	Soil	29.6	11.4	0.21	58.2	0.039	<20	1.56	0.007	0.09	2.4	1.9	0.15	<0.02	46	0.2	<0.02	4.5
1494850	Soil	24.4	8.7	0.20	56.3	0.053	<20	1.11	0.006	0.09	2.5	1.8	0.13	<0.02	6	<0.1	<0.02	6.4
1811851	Soil	23.4	12.7	0.26	56.6	0.060	<20	1.65	0.008	0.10	2.5	2.2	0.13	0.02	29	0.1	<0.02	7.2
1811852	Soil	30.6	19.6	0.53	125.0	0.069	<20	1.96	0.008	0.13	0.9	2.8	0.23	0.06	30	0.4	<0.02	7.6
1811853	Soil	25.0	21.1	0.47	62.8	0.061	<20	1.64	0.008	0.09	5.6	2.4	0.16	0.04	10	0.2	0.05	8.2
1811854	Soil	25.5	12.5	0.37	64.8	0.062	<20	1.68	0.010	0.11	1.5	2.4	0.17	<0.02	16	<0.1	<0.02	7.7
1811855	Soil	18.9	9.1	0.17	40.6	0.072	<20	0.87	0.005	0.06	0.7	1.2	0.12	<0.02	26	<0.1	<0.02	7.8
1811856	Soil	24.5	7.1	0.18	39.4	0.058	<20	0.90	0.005	0.08	0.5	1.5	0.15	<0.02	21	<0.1	<0.02	6.3
1811857	Soil	31.3	17.6	0.56	117.2	0.081	<20	1.77	0.011	0.12	0.8	2.7	0.21	0.05	24	0.4	<0.02	7.2
1811858	Soil	22.2	8.0	0.19	35.8	0.037	<20	0.98	0.005	0.08	0.7	1.0	0.10	0.02	31	<0.1	<0.02	6.0
1811859	Soil	19.6	15.4	0.30	43.1	0.036	<20	1.29	0.008	0.08	1.6	1.1	0.11	0.04	27	0.1	<0.02	6.9
1811860	Soil	38.7	7.3	0.23	39.8	0.037	<20	1.46	0.006	0.10	1.1	2.1	0.14	0.03	27	0.2	<0.02	5.2
1811861	Soil	32.0	10.7	0.35	69.2	0.071	<20	1.65	0.009	0.13	2.0	2.5	0.16	<0.02	20	<0.1	<0.02	6.8



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Method	Analyte	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
1811862	Soil	4.54	8.45	15.52	98.8	285	5.9	3.0	181	1.79	3.8	1.2	<0.2	9.1	9.9	0.29	0.16	1.15	30	0.12	0.032
1811863	Soil	3.76	18.18	46.67	144.4	1536	7.7	4.4	378	2.05	6.6	3.5	0.4	1.4	13.2	0.25	0.40	1.08	31	0.22	0.067
1811864	Soil	2.74	4.74	13.00	88.3	268	5.4	3.3	200	2.19	2.2	1.2	0.8	7.3	21.4	0.32	0.14	0.43	37	0.30	0.035
1811865	Soil	13.12	13.15	17.52	560.1	418	9.4	5.2	410	2.00	2.9	7.5	0.4	0.7	43.6	2.64	0.13	0.61	40	0.84	0.109
1811866	Soil	2.56	7.98	19.90	75.3	104	6.3	4.5	277	1.79	3.0	2.4	0.4	15.0	13.1	0.23	0.17	0.38	31	0.21	0.082
1811867	Soil	5.43	10.19	16.77	87.2	154	10.0	6.5	418	2.74	3.8	1.9	<0.2	4.9	14.5	0.35	0.21	0.50	43	0.10	0.063
1811868	Soil	3.44	5.88	15.39	63.9	191	5.1	3.6	207	1.63	1.3	1.4	<0.2	4.4	7.3	0.27	0.09	0.64	29	0.05	0.033
1811869	Soil	30.57	30.90	16.45	196.9	47	17.4	5.9	362	2.61	7.4	1.3	<0.2	7.4	15.9	0.40	0.24	3.41	51	0.13	0.029
1811870	Soil	13.85	188.45	11.84	454.1	376	30.1	15.2	1243	2.61	3.3	3.5	0.9	0.8	51.3	1.62	0.27	1.65	36	0.57	0.093
1811871	Soil	11.80	45.93	18.72	626.9	307	13.1	5.6	234	2.54	4.8	1.4	<0.2	2.3	23.7	0.73	0.18	1.17	36	0.14	0.039
1811872	Soil	25.73	49.39	24.86	452.0	329	17.9	6.6	232	3.47	5.2	1.7	12.6	2.3	28.1	4.71	0.45	0.88	46	0.11	0.068
1811873	Soil	20.85	94.46	21.86	1037.0	865	31.9	16.4	444	3.72	16.5	7.5	<0.2	4.6	39.2	2.09	0.88	1.30	57	0.47	0.049
1811874	Soil	26.28	35.30	46.78	529.6	323	25.3	8.8	397	3.07	22.6	16.3	2.4	4.7	28.0	2.03	0.60	3.00	45	0.23	0.054
1811875	Soil	3.22	30.00	23.34	140.7	361	13.5	5.4	233	3.08	5.9	1.5	1.3	12.3	10.9	0.56	0.28	2.86	36	0.08	0.045
1811876	Soil	7.44	24.31	23.52	146.6	221	15.3	8.5	227	2.12	2.5	0.8	0.2	7.0	16.0	0.47	0.16	4.28	45	0.10	0.019
1811877	Soil	7.60	36.41	48.87	270.7	467	19.3	11.7	1494	3.70	38.9	1.2	0.4	8.0	23.3	0.51	0.53	2.51	43	0.25	0.035
1811878	Soil	2.57	18.31	25.47	222.6	244	18.6	8.9	380	3.28	5.0	1.2	0.6	1.8	19.6	1.12	0.31	2.17	50	0.13	0.056
1811879	Soil	6.06	40.00	38.28	204.7	165	22.9	19.1	739	4.08	9.2	2.1	0.9	2.7	31.8	0.79	0.26	2.60	58	0.16	0.083
1811880	Soil	1.93	7.99	11.28	68.9	147	12.8	5.9	197	1.90	1.5	1.4	<0.2	1.8	13.4	0.06	0.13	0.52	30	0.10	0.037



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Method	Analyte	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
1811862	Soil	22.6	11.1	0.22	39.5	0.050	<20	0.91	0.005	0.07	2.8	1.9	0.11	<0.02	27	<0.1	0.02	7.0
1811863	Soil	26.4	12.8	0.29	51.9	0.032	<20	1.72	0.008	0.09	4.5	1.3	0.17	0.04	28	<0.1	0.02	6.5
1811864	Soil	25.9	10.8	0.28	74.2	0.069	<20	1.44	0.007	0.09	1.1	2.0	0.14	0.02	40	<0.1	<0.02	7.6
1811865	Soil	24.4	17.2	0.38	124.7	0.038	<20	1.61	0.008	0.07	3.5	1.1	0.24	0.06	27	<0.1	<0.02	7.4
1811866	Soil	35.1	10.8	0.32	76.1	0.062	<20	1.73	0.008	0.12	3.7	2.6	0.23	<0.02	8	0.2	<0.02	5.7
1811867	Soil	24.0	22.6	0.32	59.7	0.083	<20	2.10	0.007	0.08	1.3	2.2	0.15	0.02	23	0.2	0.03	8.1
1811868	Soil	28.3	9.7	0.22	42.8	0.037	<20	1.11	0.006	0.09	2.8	1.7	0.20	<0.02	11	<0.1	<0.02	6.2
1811869	Soil	26.3	27.4	0.44	70.8	0.087	<20	1.55	0.006	0.06	8.1	3.2	0.14	<0.02	<5	<0.1	0.09	10.7
1811870	Soil	38.3	36.3	0.43	69.3	0.034	<20	1.92	0.007	0.06	0.7	1.5	0.11	0.07	36	0.3	0.03	9.3
1811871	Soil	23.4	27.0	0.55	54.6	0.063	<20	1.87	0.007	0.09	4.5	2.6	0.12	0.03	21	0.1	0.03	7.8
1811872	Soil	25.3	34.7	0.58	79.7	0.071	<20	2.37	0.009	0.18	1.0	3.1	0.17	0.07	35	0.4	0.03	9.0
1811873	Soil	42.3	56.3	1.03	65.2	0.108	<20	3.43	0.014	0.10	0.5	7.1	0.24	0.06	15	<0.1	0.06	11.8
1811874	Soil	38.9	32.9	0.60	101.2	0.068	<20	2.31	0.009	0.13	3.2	3.9	0.30	0.08	<5	<0.1	0.07	9.2
1811875	Soil	26.3	21.1	0.36	79.7	0.072	<20	2.82	0.007	0.14	23.6	3.3	0.19	0.05	32	0.4	0.06	8.3
1811876	Soil	20.6	20.2	0.40	72.9	0.131	<20	1.35	0.009	0.11	4.7	2.6	0.15	<0.02	<5	<0.1	0.03	9.4
1811877	Soil	21.3	30.3	0.52	69.6	0.057	<20	2.19	0.010	0.06	11.4	3.2	0.16	0.02	40	0.3	0.02	10.0
1811878	Soil	19.7	34.6	0.49	94.2	0.072	<20	1.75	0.009	0.19	3.3	2.5	0.18	0.06	28	<0.1	0.04	9.7
1811879	Soil	22.5	52.2	0.68	154.2	0.100	<20	2.53	0.016	0.23	2.2	3.8	0.22	0.07	15	0.3	0.09	12.7
1811880	Soil	28.1	17.6	0.34	71.2	0.057	<20	1.27	0.007	0.12	2.8	1.7	0.17	0.03	<5	<0.1	<0.02	6.1



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QUALITY CONTROL REPORT

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Method	Analyte	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
Pulp Duplicates																					
1494832	Soil	3.72	15.61	30.34	66.4	244	6.0	2.0	86	0.94	1.2	2.6	0.6	0.2	9.6	0.07	0.11	1.26	22	0.04	0.034
REP 1494832	QC	3.69	14.87	30.97	62.5	224	5.8	2.0	81	0.95	1.2	2.5	1.4	0.2	8.5	0.09	0.11	1.28	23	0.04	0.033
1811869	Soil	30.57	30.90	16.45	196.9	47	17.4	5.9	362	2.61	7.4	1.3	<0.2	7.4	15.9	0.40	0.24	3.41	51	0.13	0.029
REP 1811869	QC	30.33	30.52	15.44	193.4	43	16.1	5.6	356	2.60	7.3	1.3	<0.2	7.4	15.3	0.40	0.23	3.29	51	0.13	0.026
1811880	Soil	1.93	7.99	11.28	68.9	147	12.8	5.9	197	1.90	1.5	1.4	<0.2	1.8	13.4	0.06	0.13	0.52	30	0.10	0.037
REP 1811880	QC	1.90	8.42	11.25	66.4	148	13.3	6.1	201	1.91	1.6	1.4	<0.2	1.8	13.6	0.07	0.13	0.53	30	0.10	0.037
Reference Materials																					
STD BVGEO01	Standard	10.53	4458.02	183.56	1752.0	2693	167.9	26.5	733	3.72	120.7	3.6	222.0	16.9	55.8	6.26	2.11	24.23	75	1.33	0.064
STD DS11	Standard	16.31	156.28	150.19	368.0	1916	88.4	14.7	1052	3.16	47.1	3.2	119.6	8.9	72.6	2.76	7.46	12.50	49	1.08	0.077
STD DS11	Standard	15.36	143.22	148.93	346.4	1694	87.0	13.9	1051	3.18	43.8	2.6	67.5	9.0	64.0	2.40	6.43	11.96	50	1.08	0.069
STD OREAS262	Standard	0.70	111.49	60.55	163.8	493	64.7	27.2	548	3.26	38.0	1.3	55.4	9.9	36.4	0.63	2.02	1.05	22	2.96	0.040
STD OREAS262	Standard	0.67	118.64	59.23	162.4	484	70.5	29.0	542	3.33	37.4	1.2	57.9	10.1	36.4	0.69	1.98	1.02	21	3.01	0.041
STD OREAS262	Standard	0.57	112.93	52.55	150.1	441	62.8	26.7	542	3.24	34.3	1.1	50.7	10.0	33.9	0.63	2.18	0.93	21	2.90	0.038
STD DS11 Expected		13.9	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701
STD BVGEO01 Expected		10.8	4415	187	1741	2530	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73	1.3219	0.0727
STD OREAS262 Expected		0.68	118	56	154	450	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	2.98	0.04
BLK	Blank	<0.01	0.02	<0.01	<0.1	<2	<0.1	<0.1	<1	0.02	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.03	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001



QUALITY CONTROL REPORT

WHI20000257.1

Method	Analyte	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
Pulp Duplicates																		
1494832	Soil	22.2	11.3	0.16	31.7	0.025	<20	0.80	0.007	0.05	0.2	0.5	0.11	<0.02	34	<0.1	<0.02	6.2
REP 1494832	QC	20.1	10.5	0.17	31.0	0.025	<20	0.78	0.007	0.05	0.2	0.4	0.10	<0.02	25	<0.1	<0.02	6.4
1811869	Soil	26.3	27.4	0.44	70.8	0.087	<20	1.55	0.006	0.06	8.1	3.2	0.14	<0.02	<5	<0.1	0.09	10.7
REP 1811869	QC	26.9	25.5	0.43	71.1	0.083	<20	1.53	0.006	0.06	7.9	3.3	0.15	<0.02	9	<0.1	0.10	10.3
1811880	Soil	28.1	17.6	0.34	71.2	0.057	<20	1.27	0.007	0.12	2.8	1.7	0.17	0.03	<5	<0.1	<0.02	6.1
REP 1811880	QC	28.8	17.6	0.34	69.9	0.058	<20	1.30	0.009	0.13	1.5	1.7	0.17	0.03	11	<0.1	<0.02	6.1
Reference Materials																		
STD BVGEO01	Standard	27.5	158.7	1.34	353.6	0.229	<20	2.35	0.195	0.90	3.8	6.4	0.66	0.70	100	4.5	1.01	7.6
STD DS11	Standard	19.3	63.4	0.87	447.1	0.098	<20	1.19	0.075	0.41	3.0	3.7	5.20	0.29	272	2.4	4.88	5.1
STD DS11	Standard	18.4	61.7	0.86	429.1	0.097	<20	1.19	0.072	0.41	2.8	3.6	5.23	0.29	250	1.9	4.72	5.2
STD OREAS262	Standard	16.9	40.9	1.20	269.7	0.003	<20	1.31	0.070	0.31	0.1	3.4	0.50	0.27	195	0.3	0.23	4.4
STD OREAS262	Standard	17.3	44.3	1.21	261.0	0.003	<20	1.27	0.069	0.31	<0.1	3.5	0.49	0.26	152	0.3	0.25	4.4
STD OREAS262	Standard	14.7	41.7	1.19	242.8	0.003	<20	1.22	0.068	0.30	0.1	3.0	0.45	0.27	150	0.1	0.20	3.6
STD DS11 Expected		18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	3.1	4.9	0.2835	260	2.2	4.56	4.7
STD BVGEO01 Expected		25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	5.97	0.62	0.6655	100	4.84	1.02	7.37
STD OREAS262 Expected		15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	3.24	0.47	0.269	170	0.4	0.23	3.9
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	9	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	0.02	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1