



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: **Aurora Geosciences Ltd. (Whitehorse)**
34A Laberge Road
Whitehorse Yukon Y1A 5Y9 Canada

Submitted By: Carl Schulze
Receiving Lab: Canada-Whitehorse
Received: September 14, 2017
Report Date: October 14, 2017
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CERTIFICATE OF ANALYSIS

WHI17000847.1

CLIENT JOB INFORMATION

Project: EUK-17029-YT
Shipment ID:
P.O. Number: EUK-17029-YT
Number of Samples: 320

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
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: Aurora Geosciences Ltd. (Whitehorse)
34A Laberge Road
Whitehorse Yukon Y1A 5Y9
Canada

CC: Nigel Bocking

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	320	Dry at 60C			WHI
SS80	320	Dry at 60C sieve 100g to -80 mesh			VAN
SVRJT	320	Save all or part of Soil Reject			WHI
FA330	320	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	320	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	320	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	320	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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CERTIFICATE OF ANALYSIS

WHI17000847.1

Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
	Au ppb	Pt ppb	Pd ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	
	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	
1891522	Soil	2	<3	3	<1	44	4	62	<0.3	25	14	548	3.63	9	3	32	<0.5	<3	<3	78	0.54
1891523	Soil	<2	<3	2	<1	24	6	44	<0.3	23	10	334	3.00	10	5	23	<0.5	<3	<3	65	0.32
1891524	Soil	<2	<3	3	<1	36	5	67	<0.3	25	14	454	3.39	8	4	25	<0.5	<3	<3	82	0.49
1891525	Soil	<2	<3	<2	1	24	6	49	<0.3	22	11	469	3.11	9	5	27	<0.5	<3	<3	66	0.49
1891526	Soil	<2	<3	<2	<1	18	6	49	<0.3	25	13	327	3.08	7	3	23	<0.5	<3	<3	75	0.31
1891527	Soil	<2	<3	2	<1	52	4	79	<0.3	20	18	545	3.59	5	<2	25	<0.5	<3	<3	89	0.49
1891528	Soil	<2	<3	2	<1	34	6	58	<0.3	16	15	660	3.01	5	<2	32	<0.5	<3	<3	83	0.49
1891529	Soil	<2	<3	4	<1	26	7	154	<0.3	19	13	907	3.04	8	4	24	<0.5	<3	<3	65	0.36
1891530	Soil	<2	<3	<2	<1	25	4	95	<0.3	18	15	1148	3.65	6	3	30	<0.5	<3	<3	66	0.41
1891531	Soil	5	<3	3	1	46	11	79	<0.3	23	21	424	3.90	7	4	48	<0.5	<3	<3	80	0.52
1891532	Soil	<2	<3	<2	1	34	10	101	<0.3	21	15	426	3.87	10	3	25	<0.5	<3	<3	99	0.26
1891533	Soil	<2	<3	<2	<1	18	4	75	<0.3	11	9	663	3.08	6	3	22	<0.5	<3	<3	62	0.32
1891534	Soil	8	<3	3	<1	28	7	58	<0.3	17	12	421	3.25	7	4	30	<0.5	<3	<3	73	0.54
1891535	Soil	3	<3	<2	<1	30	9	54	<0.3	23	11	458	3.07	8	6	29	<0.5	<3	<3	64	0.42
1891536	Soil	5	<3	3	<1	64	8	82	0.5	24	11	457	3.53	6	3	59	0.6	<3	<3	69	1.10
1891537	Soil	<2	<3	<2	<1	16	6	54	<0.3	16	9	747	2.51	6	3	30	<0.5	<3	<3	48	0.41
1891538	Soil	3	<3	<2	<1	37	4	52	<0.3	15	11	527	2.39	4	2	43	<0.5	<3	<3	59	1.21
1891539	Soil	4	<3	<2	<1	40	7	70	<0.3	21	13	608	3.01	6	3	47	<0.5	<3	<3	71	0.93
1891540	Soil	3	<3	<2	<1	38	7	63	<0.3	19	12	446	2.93	7	2	42	<0.5	<3	<3	73	0.79
1891541	Soil	4	<3	2	<1	38	6	68	<0.3	20	13	523	3.08	6	3	44	<0.5	<3	<3	74	0.81
1891542	Soil	4	<3	8	<1	34	9	61	<0.3	18	12	393	2.89	6	3	41	<0.5	<3	<3	67	0.65
1891543	Soil	4	<3	2	<1	38	6	55	<0.3	23	11	433	2.78	8	4	40	<0.5	<3	<3	62	0.64
1891544	Soil	<2	<3	<2	<1	18	8	76	<0.3	22	14	581	3.17	6	3	24	<0.5	<3	<3	63	0.33
1891545	Soil	3	<3	<2	<1	11	6	45	<0.3	14	8	261	2.44	5	4	20	<0.5	<3	<3	47	0.21
1891546	Soil	<2	<3	<2	<1	20	6	114	<0.3	16	8	424	3.33	8	7	22	<0.5	<3	<3	48	0.27
1891547	Soil	<2	<3	<2	<1	17	7	56	<0.3	22	13	473	3.03	5	5	21	<0.5	<3	<3	61	0.27
1891548	Soil	5	<3	<2	<1	12	7	43	<0.3	17	9	358	2.52	5	4	22	<0.5	<3	<3	54	0.33
1891549	Soil	<2	<3	<2	1	24	10	66	<0.3	29	18	684	4.22	6	6	28	<0.5	<3	<3	86	0.57
1891550	Soil	<2	<3	<2	1	11	24	65	<0.3	11	7	410	2.84	4	5	19	<0.5	<3	<3	46	0.29
1891551	Soil	2	<3	<2	1	13	8	55	<0.3	16	10	559	3.18	7	3	25	<0.5	<3	<3	76	0.29



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Method Analyte	Unit	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	MDL	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1891522	Soil	0.073	13	45	0.89	238	0.129	<20	2.24	0.02	0.16	<2	<0.05	<1	<5	<5	8
1891523	Soil	0.020	14	40	0.56	183	0.106	<20	1.78	0.01	0.20	<2	<0.05	<1	<5	<5	7
1891524	Soil	0.065	12	47	1.08	259	0.151	<20	2.30	0.01	0.27	<2	<0.05	<1	<5	<5	8
1891525	Soil	0.031	12	39	0.59	306	0.081	<20	1.84	0.01	0.22	<2	<0.05	<1	<5	<5	7
1891526	Soil	0.023	7	45	1.03	225	0.123	<20	1.97	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
1891527	Soil	0.073	6	30	1.30	326	0.218	<20	2.25	0.02	0.71	<2	<0.05	<1	<5	<5	<5
1891528	Soil	0.029	5	33	0.90	283	0.109	<20	1.77	0.02	0.19	<2	<0.05	<1	<5	<5	<5
1891529	Soil	0.036	8	30	0.65	367	0.112	<20	1.75	0.01	0.27	<2	<0.05	<1	<5	<5	6
1891530	Soil	0.078	10	23	0.75	612	0.061	<20	1.85	<0.01	0.33	<2	<0.05	<1	<5	<5	6
1891531	Soil	0.047	14	45	1.01	289	0.103	<20	2.31	0.02	0.26	<2	0.10	<1	<5	<5	8
1891532	Soil	0.029	7	33	1.07	312	0.154	<20	2.32	0.01	0.31	<2	<0.05	<1	<5	<5	7
1891533	Soil	0.027	6	19	0.88	285	0.145	<20	1.70	0.01	0.58	<2	<0.05	<1	<5	<5	<5
1891534	Soil	0.042	10	32	0.81	347	0.107	<20	1.87	0.02	0.13	<2	<0.05	<1	<5	<5	5
1891535	Soil	0.021	24	38	0.66	467	0.090	<20	1.97	0.01	0.10	<2	<0.05	<1	<5	<5	8
1891536	Soil	0.069	43	32	0.80	775	0.078	<20	2.56	0.01	0.26	<2	0.08	<1	<5	6	12
1891537	Soil	0.021	7	24	0.41	474	0.057	<20	1.46	0.01	0.12	<2	<0.05	<1	<5	<5	<5
1891538	Soil	0.062	11	24	0.83	290	0.084	<20	1.42	0.02	0.18	<2	0.09	<1	<5	<5	<5
1891539	Soil	0.054	12	32	0.86	357	0.087	<20	1.81	0.02	0.09	<2	<0.05	<1	<5	<5	6
1891540	Soil	0.045	11	31	0.83	318	0.099	<20	1.80	0.02	0.11	<2	<0.05	<1	<5	<5	6
1891541	Soil	0.049	11	30	0.85	340	0.100	<20	1.84	0.02	0.10	<2	<0.05	<1	<5	<5	7
1891542	Soil	0.036	13	28	0.79	356	0.096	<20	1.76	0.02	0.11	<2	<0.05	<1	<5	<5	6
1891543	Soil	0.056	15	30	0.76	337	0.096	<20	1.60	0.03	0.10	<2	<0.05	<1	<5	<5	6
1891544	Soil	0.035	6	42	0.89	335	0.125	<20	1.86	0.01	0.33	<2	<0.05	<1	<5	<5	<5
1891545	Soil	0.012	9	23	0.46	273	0.092	<20	1.37	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1891546	Soil	0.021	10	27	0.52	245	0.130	<20	1.94	<0.01	0.40	<2	<0.05	<1	<5	<5	7
1891547	Soil	0.011	12	41	0.82	310	0.125	<20	1.74	<0.01	0.29	<2	<0.05	<1	<5	<5	<5
1891548	Soil	0.011	8	32	0.56	316	0.086	<20	1.41	0.01	0.15	<2	<0.05	<1	<5	<5	<5
1891549	Soil	0.020	10	63	1.35	387	0.082	<20	2.80	<0.01	0.20	<2	<0.05	<1	<5	7	8
1891550	Soil	0.017	12	21	0.47	398	0.032	<20	1.64	<0.01	0.13	<2	<0.05	<1	<5	5	<5
1891551	Soil	0.037	7	29	0.57	289	0.057	<20	2.12	<0.01	0.06	<2	<0.05	<1	<5	6	<5



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CERTIFICATE OF ANALYSIS

WHI17000847.1

Method	Analyte	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891552	Soil	<2	<3	<2	1	13	7	70	<0.3	16	11	507	3.04	6	3	18	<0.5	<3	<3	73	0.20
1891553	Soil	<2	<3	<2	1	13	8	69	<0.3	16	11	610	3.48	6	<2	21	<0.5	<3	<3	85	0.24
1891554	Soil	<2	<3	<2	1	20	7	53	<0.3	19	11	326	3.27	9	3	18	<0.5	<3	<3	76	0.18
1891555	Soil	<2	<3	<2	1	22	7	57	<0.3	17	10	341	2.96	8	4	20	<0.5	<3	<3	72	0.21
1891556	Soil	3	<3	3	1	56	8	51	<0.3	22	15	361	3.48	8	3	16	<0.5	<3	<3	91	0.21
1891557	Soil	3	<3	4	2	42	6	72	<0.3	22	10	274	4.26	6	3	20	<0.5	<3	<3	113	0.16
1891558	Soil	4	<3	<2	<1	18	6	60	<0.3	19	11	300	3.31	9	3	13	<0.5	<3	<3	82	0.17
1891559	Soil	3	<3	2	1	20	8	51	<0.3	22	11	271	3.20	11	5	19	<0.5	<3	<3	70	0.17
1891560	Soil	<2	<3	2	<1	16	5	86	<0.3	8	13	290	4.44	7	3	17	<0.5	<3	<3	97	0.22
1891561	Soil	<2	<3	<2	1	27	<3	114	<0.3	8	17	299	5.78	5	3	19	<0.5	<3	<3	111	0.22
1891562	Soil	3	<3	<2	1	32	7	91	<0.3	8	10	312	4.40	5	2	19	<0.5	<3	<3	79	0.18
1891563	Soil	3	<3	<2	2	105	16	72	<0.3	9	10	430	11.33	<2	<2	55	<0.5	<3	<3	112	0.26
1891564	Soil	2	<3	<2	<1	32	6	115	<0.3	10	15	713	4.43	3	2	16	<0.5	<3	3	67	0.40
1891565	Soil	<2	<3	<2	<1	49	7	321	<0.3	10	15	829	6.16	2	2	22	0.8	<3	<3	107	0.53
1891566	Soil	2	<3	<2	<1	18	8	92	<0.3	10	8	287	3.36	5	2	20	<0.5	<3	<3	74	0.22
1891567	Soil	3	<3	4	<1	27	5	65	<0.3	8	4	164	2.37	2	<2	28	<0.5	<3	<3	29	0.33
1891568	Soil	6	<3	3	<1	11	6	42	<0.3	7	4	126	1.84	3	<2	17	<0.5	<3	<3	34	0.21
1891569	Soil	7	<3	7	<1	10	5	25	<0.3	6	3	74	1.20	<2	<2	34	<0.5	<3	<3	16	0.68
1891570	Soil	4	<3	4	<1	9	7	31	<0.3	8	4	91	1.47	3	<2	21	<0.5	<3	<3	24	0.32
1891571	Soil	4	<3	<2	<1	16	7	61	<0.3	11	6	160	2.11	3	<2	26	<0.5	<3	<3	39	0.42
1891572	Soil	3	<3	<2	<1	29	7	82	<0.3	17	12	464	3.26	6	3	33	<0.5	<3	<3	75	0.45
1891573	Soil	3	<3	<2	<1	25	7	84	<0.3	14	10	329	2.96	4	2	23	<0.5	<3	<3	82	0.28
1891574	Soil	8	<3	5	<1	14	4	37	<0.3	9	4	96	2.23	5	<2	16	<0.5	<3	<3	46	0.17
1891575	Soil	3	<3	3	<1	19	7	65	<0.3	14	8	187	2.51	5	2	23	<0.5	<3	<3	65	0.26
1891576	Soil	3	<3	2	<1	33	3	67	<0.3	18	15	259	2.84	4	<2	30	<0.5	<3	<3	77	0.49
1891577	Soil	4	3	2	<1	18	6	46	<0.3	9	6	167	1.98	3	<2	23	<0.5	<3	<3	44	0.28
1891578	Soil	<2	<3	<2	<1	21	7	62	<0.3	12	9	236	2.67	4	<2	18	<0.5	<3	<3	71	0.27
1891579	Soil	5	<3	6	<1	35	4	49	<0.3	11	9	218	2.40	3	<2	28	<0.5	<3	<3	54	0.39
1891580	Soil	3	<3	2	<1	72	5	58	<0.3	14	15	361	2.93	4	<2	45	<0.5	<3	<3	82	0.60
1891581	Soil	4	<3	2	<1	72	4	52	<0.3	13	15	403	2.65	3	<2	46	<0.5	<3	<3	75	0.67



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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
1891552	Soil	0.039	8	32	0.53	226	0.055	<20	1.94	<0.01	0.19	<2	<0.05	<1	<5	6	<5
1891553	Soil	0.069	7	33	0.71	218	0.088	<20	2.14	0.01	0.06	<2	<0.05	<1	<5	6	<5
1891554	Soil	0.031	9	34	0.66	217	0.098	<20	2.12	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1891555	Soil	0.020	11	36	0.63	310	0.097	<20	2.01	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1891556	Soil	0.033	8	38	0.97	262	0.129	<20	2.79	0.01	0.11	<2	<0.05	<1	<5	<5	<5
1891557	Soil	0.039	13	80	1.08	319	0.099	<20	2.71	<0.01	0.12	<2	<0.05	<1	<5	6	10
1891558	Soil	0.051	8	29	0.91	189	0.136	<20	1.97	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1891559	Soil	0.025	11	40	0.55	286	0.077	<20	2.47	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1891560	Soil	0.062	6	15	1.93	327	0.209	<20	2.77	0.02	0.22	<2	0.11	<1	<5	9	8
1891561	Soil	0.073	7	14	2.70	560	0.259	<20	3.61	0.02	0.69	<2	0.21	<1	<5	10	11
1891562	Soil	0.055	7	18	1.40	317	0.141	<20	2.82	0.01	0.23	<2	0.09	<1	<5	9	9
1891563	Soil	0.162	6	12	2.70	594	0.087	<20	5.10	0.11	0.61	<2	0.71	<1	<5	13	21
1891564	Soil	0.157	9	18	1.55	207	0.120	<20	2.86	0.01	0.22	<2	<0.05	<1	<5	9	9
1891565	Soil	0.193	8	18	2.82	492	0.171	<20	4.09	0.01	0.81	<2	<0.05	<1	<5	14	16
1891566	Soil	0.073	8	21	1.01	213	0.134	<20	2.12	<0.01	0.19	<2	<0.05	<1	<5	7	5
1891567	Soil	0.063	8	17	0.69	281	0.046	<20	1.52	<0.01	0.15	<2	0.08	<1	<5	6	<5
1891568	Soil	0.056	6	18	0.53	114	0.053	<20	1.17	<0.01	0.05	<2	0.07	<1	<5	6	<5
1891569	Soil	0.081	7	12	0.29	290	0.028	<20	0.78	0.01	0.05	<2	0.14	<1	<5	<5	<5
1891570	Soil	0.055	7	20	0.36	173	0.044	<20	1.14	<0.01	0.04	<2	0.06	<1	<5	6	<5
1891571	Soil	0.060	7	21	0.59	207	0.065	<20	1.47	0.01	0.05	<2	0.08	<1	<5	<5	<5
1891572	Soil	0.057	15	28	0.85	362	0.094	<20	2.47	<0.01	0.09	<2	<0.05	<1	<5	<5	5
1891573	Soil	0.046	7	28	1.27	399	0.168	<20	2.27	0.01	0.39	<2	<0.05	<1	<5	<5	<5
1891574	Soil	0.054	6	21	0.40	90	0.059	<20	1.17	<0.01	0.05	<2	0.07	<1	<5	<5	<5
1891575	Soil	0.047	8	25	0.79	158	0.117	<20	1.69	0.01	0.13	<2	<0.05	<1	<5	<5	<5
1891576	Soil	0.051	8	27	1.14	222	0.142	<20	2.06	0.01	0.24	<2	<0.05	<1	<5	<5	<5
1891577	Soil	0.046	7	21	0.68	299	0.102	<20	1.40	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1891578	Soil	0.060	8	23	0.86	237	0.133	<20	1.73	0.01	0.19	<2	<0.05	<1	<5	<5	5
1891579	Soil	0.060	9	22	0.70	319	0.107	<20	1.56	0.01	0.14	<2	0.06	<1	<5	<5	<5
1891580	Soil	0.052	11	28	1.06	396	0.137	<20	2.12	0.02	0.14	<2	<0.05	<1	<5	<5	6
1891581	Soil	0.057	11	28	0.98	390	0.123	<20	1.96	0.02	0.14	<2	0.05	<1	<5	<5	6



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Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	
	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	
1891582	Soil	2	<3	<2	<1	41	5	61	<0.3	15	19	524	3.55	4	<2	18	<0.5	<3	<3	128	0.27
1891583	Soil	4	<3	3	<1	43	6	71	<0.3	16	18	499	3.90	4	2	28	<0.5	<3	<3	126	0.64
1891584	Soil	2	<3	<2	2	47	35	60	<0.3	17	16	398	3.26	4	<2	19	<0.5	<3	<3	119	0.27
1891585	Soil	<2	<3	<2	<1	33	8	74	<0.3	20	12	457	3.07	4	2	42	<0.5	<3	<3	88	0.62
1891586	Soil	6	<3	<2	<1	40	8	61	0.4	21	11	299	2.72	5	<2	39	<0.5	<3	<3	65	0.72
1891587	Soil	7	5	6	<1	104	8	59	1.4	42	12	656	2.61	4	<2	56	0.6	<3	<3	67	2.03
1891588	Soil	<2	<3	<2	<1	34	8	62	<0.3	28	14	287	2.95	6	3	20	<0.5	<3	<3	71	0.47
1891589	Soil	3	<3	2	<1	48	7	90	<0.3	37	12	918	2.94	6	3	31	<0.5	<3	<3	63	0.74
1891590	Soil	4	<3	<2	<1	41	5	73	<0.3	14	17	519	3.58	3	<2	26	<0.5	<3	<3	119	0.91
1891591	Soil	7	<3	6	<1	37	5	58	<0.3	13	14	381	2.93	4	<2	26	<0.5	<3	<3	83	0.37
1891592	Soil	9	<3	10	<1	21	4	28	<0.3	8	6	113	1.74	3	<2	26	<0.5	<3	<3	31	0.35
1891593	Soil	5	4	5	<1	28	4	55	<0.3	12	7	181	3.01	5	<2	36	<0.5	<3	<3	81	0.23
1891594	Soil	7	<3	3	<1	80	7	225	<0.3	11	10	591	4.56	3	2	36	<0.5	<3	<3	88	0.26
1891595	Soil	6	<3	3	<1	32	7	117	<0.3	12	10	346	4.06	5	2	35	<0.5	<3	<3	69	0.24
1891596	Soil	5	<3	4	<1	35	6	69	<0.3	21	13	387	3.45	6	3	32	<0.5	<3	<3	81	0.49
1891597	Soil	3	<3	<2	<1	52	4	52	<0.3	22	16	453	3.01	<2	<2	20	<0.5	<3	<3	87	0.44
1891598	Soil	<2	<3	2	<1	30	10	57	<0.3	34	13	1191	2.98	7	2	28	<0.5	<3	<3	61	0.80
1891599	Soil	3	<3	3	<1	15	9	65	<0.3	19	11	549	3.23	5	<2	30	<0.5	<3	<3	70	0.39
1891600	Soil	4	<3	3	<1	35	7	54	<0.3	22	15	617	2.93	3	<2	44	<0.5	<3	<3	60	0.65
1891601	Soil	4	<3	<2	<1	37	6	55	<0.3	23	16	638	3.03	4	<2	46	<0.5	<3	<3	62	0.67
1891602	Soil	2	<3	2	<1	19	8	55	<0.3	22	11	706	3.19	7	4	24	<0.5	<3	<3	69	0.31
1891603	Soil	<2	<3	<2	2	31	13	67	<0.3	20	12	702	4.69	5	5	25	<0.5	<3	<3	79	0.39
1891604	Soil	2	<3	<2	<1	25	9	57	<0.3	22	12	594	2.83	5	2	25	<0.5	<3	<3	67	0.39
1891605	Soil	5	<3	3	<1	31	10	58	<0.3	26	13	517	3.57	8	5	25	<0.5	<3	<3	78	0.41
1891606	Soil	3	<3	<2	<1	18	7	44	<0.3	20	10	444	2.78	6	4	23	<0.5	<3	<3	59	0.35
1891607	Soil	3	<3	5	<1	34	10	63	<0.3	22	13	375	2.94	4	5	23	<0.5	<3	<3	65	0.38
1891608	Soil	<2	4	4	<1	106	5	36	<0.3	44	24	288	2.74	3	2	21	<0.5	<3	<3	68	0.45
1891609	Soil	2	3	5	<1	191	5	36	<0.3	87	47	399	3.71	<2	<2	20	<0.5	<3	<3	117	0.53
1891610	Soil	4	<3	3	1	139	11	108	0.3	39	31	726	4.43	5	5	29	<0.5	<3	<3	73	0.29
1891611	Soil	4	<3	4	2	277	48	304	1.8	20	7	388	5.93	<2	6	63	<0.5	<3	<3	63	0.20

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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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
1891582	Soil	0.052	8	31	1.63	317	0.195	<20	2.28	0.02	0.37	<2	<0.05	<1	<5	<5	6
1891583	Soil	0.054	9	23	1.79	479	0.197	<20	2.82	0.02	0.44	<2	<0.05	<1	<5	<5	9
1891584	Soil	0.040	6	32	1.50	402	0.160	<20	2.02	0.02	0.39	<2	<0.05	<1	<5	<5	6
1891585	Soil	0.061	10	21	1.52	502	0.186	<20	2.32	0.01	0.18	<2	<0.05	<1	<5	<5	7
1891586	Soil	0.043	14	27	1.08	482	0.126	<20	2.07	0.01	0.11	<2	<0.05	<1	<5	<5	5
1891587	Soil	0.128	52	26	0.97	591	0.091	<20	2.20	0.01	0.18	<2	0.06	<1	<5	<5	17
1891588	Soil	0.058	9	29	1.13	219	0.115	<20	2.47	0.01	0.06	<2	<0.05	<1	<5	<5	<5
1891589	Soil	0.114	15	32	1.27	329	0.107	<20	2.37	<0.01	0.06	<2	<0.05	<1	<5	<5	10
1891590	Soil	0.087	6	23	1.54	271	0.205	<20	2.44	0.02	0.65	<2	<0.05	<1	<5	<5	6
1891591	Soil	0.062	8	25	1.01	201	0.115	<20	1.89	0.02	0.17	<2	0.06	<1	<5	<5	5
1891592	Soil	0.049	4	17	0.48	126	0.052	<20	1.03	0.02	0.07	<2	0.09	<1	<5	<5	<5
1891593	Soil	0.054	8	26	1.07	297	0.101	<20	1.92	0.03	0.26	<2	0.23	<1	<5	<5	7
1891594	Soil	0.077	8	16	1.55	479	0.103	<20	2.60	0.05	0.24	<2	0.32	<1	<5	7	8
1891595	Soil	0.081	8	23	1.20	289	0.108	<20	2.44	0.03	0.19	<2	0.23	<1	<5	7	8
1891596	Soil	0.054	6	29	0.99	189	0.137	<20	2.35	0.02	0.20	<2	<0.05	<1	<5	<5	<5
1891597	Soil	0.028	3	47	1.47	113	0.126	<20	2.32	0.03	0.07	<2	<0.05	<1	<5	<5	<5
1891598	Soil	0.025	12	29	0.60	241	0.085	<20	2.08	0.02	0.11	<2	<0.05	<1	<5	<5	7
1891599	Soil	0.066	7	35	0.68	269	0.096	<20	2.05	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
1891600	Soil	0.045	4	28	1.18	216	0.076	<20	2.21	0.02	0.19	<2	<0.05	<1	<5	<5	<5
1891601	Soil	0.049	5	29	1.23	212	0.078	<20	2.30	0.02	0.18	<2	<0.05	<1	<5	5	<5
1891602	Soil	0.055	8	34	0.71	291	0.087	<20	2.08	0.01	0.12	<2	<0.05	<1	<5	<5	<5
1891603	Soil	0.044	11	37	0.99	285	0.144	<20	2.24	<0.01	0.49	<2	<0.05	<1	<5	5	8
1891604	Soil	0.080	6	37	0.68	348	0.089	<20	1.83	0.01	0.08	<2	<0.05	<1	<5	<5	<5
1891605	Soil	0.036	10	43	0.80	284	0.140	<20	2.24	0.01	0.32	<2	<0.05	<1	<5	<5	7
1891606	Soil	0.021	12	36	0.54	249	0.098	<20	1.60	0.01	0.21	<2	<0.05	<1	<5	<5	6
1891607	Soil	0.028	9	42	0.99	231	0.132	<20	1.77	0.01	0.34	<2	<0.05	<1	<5	<5	<5
1891608	Soil	0.067	5	51	1.06	355	0.121	<20	1.69	0.02	0.15	<2	<0.05	<1	<5	<5	5
1891609	Soil	0.043	3	122	3.09	609	0.206	<20	2.87	<0.01	0.73	<2	<0.05	<1	<5	<5	6
1891610	Soil	0.084	17	77	1.22	489	0.206	<20	2.37	<0.01	0.82	<2	0.07	<1	<5	<5	<5
1891611	Soil	0.093	30	45	1.16	608	0.231	<20	2.32	0.09	1.16	<2	0.95	<1	<5	<5	<5



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Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
	Au ppb	Pt ppb	Pd ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	
1891612	Soil	2	<3	3	<1	227	8	48	<0.3	45	24	282	3.59	7	3	23	<0.5	<3	<3	87	0.34
1891613	Soil	2	<3	<2	<1	142	11	103	<0.3	36	34	768	3.50	5	<2	29	0.6	<3	<3	88	0.43
1891614	Soil	2	<3	<2	<1	156	6	58	<0.3	19	39	472	3.99	3	2	34	<0.5	<3	<3	116	0.95
1891615	Soil	4	3	3	<1	161	7	44	<0.3	38	26	404	3.16	4	2	32	<0.5	<3	<3	91	0.62
1891616	Soil	6	<3	2	<1	59	4	73	<0.3	14	6	344	4.52	4	3	25	<0.5	<3	<3	83	0.21
1891617	Soil	13	5	30	<1	54	9	192	<0.3	22	10	648	5.04	5	3	40	<0.5	<3	<3	72	0.43
1891618	Soil	6	<3	4	<1	38	8	227	<0.3	16	10	551	4.30	6	3	26	<0.5	<3	<3	85	0.26
1891619	Soil	7	<3	4	<1	78	6	63	<0.3	33	14	451	3.79	10	4	30	<0.5	<3	<3	89	0.54
1891620	Soil	4	<3	<2	<1	19	7	51	<0.3	18	11	376	2.84	5	4	22	<0.5	<3	<3	66	0.28
1891621	Soil	4	4	5	<1	18	7	50	<0.3	18	12	454	2.77	5	3	21	<0.5	<3	<3	64	0.27
1891622	Soil	2	<3	2	<1	19	8	53	<0.3	20	11	477	3.05	8	4	26	<0.5	<3	<3	70	0.31
1891623	Soil	2	<3	3	<1	36	7	119	<0.3	21	18	438	4.96	5	3	17	<0.5	<3	<3	113	0.52
1891624	Soil	4	<3	5	1	29	8	57	<0.3	14	8	247	3.48	5	3	35	<0.5	<3	<3	74	0.23
1891625	Soil	3	<3	3	<1	24	9	65	<0.3	16	9	278	3.29	7	3	19	<0.5	<3	<3	79	0.21
1891626	Soil	<2	<3	<2	<1	29	8	94	<0.3	22	13	676	4.38	7	3	25	<0.5	<3	<3	99	0.41
1891627	Soil	<2	<3	<2	<1	42	8	103	0.3	18	17	983	4.22	4	3	28	<0.5	<3	<3	108	0.37
1891628	Soil	<2	<3	<2	<1	25	6	68	<0.3	18	12	411	3.62	5	5	15	<0.5	<3	<3	66	0.14
1891629	Soil	3	<3	<2	<1	20	7	45	<0.3	19	9	256	2.83	5	4	23	<0.5	<3	<3	63	0.23
1891630	Soil	5	<3	5	1	52	7	95	<0.3	15	10	536	4.02	4	3	30	<0.5	<3	<3	97	0.37
1891631	Soil	11	<3	<2	<1	20	8	48	<0.3	23	8	317	2.95	10	5	24	<0.5	<3	<3	62	0.28
1891632	Soil	2	<3	<2	1	26	9	70	<0.3	19	11	366	3.61	6	4	26	<0.5	<3	<3	78	0.41
1891633	Soil	3	<3	<2	<1	22	8	52	<0.3	21	11	405	3.26	8	5	25	<0.5	<3	<3	71	0.38
1891634	Soil	6	<3	<2	<1	64	7	62	<0.3	32	13	393	3.47	9	4	33	<0.5	<3	<3	82	0.53
1891635	Soil	<2	<3	<2	<1	18	8	53	<0.3	20	11	490	2.96	6	3	25	<0.5	<3	<3	68	0.34
1891636	Soil	6	<3	<2	<1	53	6	68	<0.3	19	13	536	3.52	3	2	36	<0.5	<3	<3	81	1.19
1891637	Soil	4	<3	<2	<1	28	7	50	<0.3	22	10	286	3.08	8	5	24	<0.5	<3	<3	68	0.26
1891638	Soil	3	<3	<2	<1	30	7	67	<0.3	19	11	333	3.53	6	3	18	<0.5	<3	<3	93	0.24
1891639	Soil	3	5	<2	<1	44	6	74	<0.3	22	17	705	4.17	3	<2	25	<0.5	<3	<3	107	0.45
1891640	Soil	5	4	2	<1	46	5	61	<0.3	22	15	398	3.81	4	<2	25	<0.5	<3	<3	121	0.35
1891641	Soil	5	4	3	<1	37	6	58	<0.3	20	13	363	3.57	5	3	25	<0.5	<3	<3	98	0.29



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Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
1891612	Soil	0.028	6	52	1.05	259	0.165	<20	2.23	0.02	0.20	<2	0.06	<1	<5	<5	5
1891613	Soil	0.036	6	42	1.17	369	0.147	<20	2.26	0.02	0.17	<2	<0.05	<1	<5	<5	<5
1891614	Soil	0.167	4	17	1.47	516	0.199	<20	2.35	0.09	0.47	<2	<0.05	<1	<5	<5	8
1891615	Soil	0.028	6	53	1.39	376	0.168	<20	2.15	0.04	0.11	<2	<0.05	<1	<5	<5	9
1891616	Soil	0.035	8	21	1.60	349	0.115	<20	2.64	0.02	0.41	<2	0.15	<1	<5	7	11
1891617	Soil	0.068	9	39	1.60	552	0.117	<20	2.79	0.02	0.50	<2	0.13	<1	<5	8	10
1891618	Soil	0.052	8	23	1.42	336	0.110	<20	2.54	0.01	0.32	<2	0.08	<1	<5	6	8
1891619	Soil	0.042	12	42	1.22	263	0.139	<20	2.58	0.02	0.13	<2	<0.05	<1	<5	<5	9
1891620	Soil	0.024	7	30	0.64	243	0.099	<20	1.70	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
1891621	Soil	0.026	7	28	0.62	268	0.092	<20	1.64	0.01	0.14	<2	<0.05	<1	<5	<5	<5
1891622	Soil	0.032	9	34	0.63	292	0.083	<20	1.99	<0.01	0.10	<2	<0.05	<1	<5	<5	5
1891623	Soil	0.188	8	28	2.30	478	0.254	<20	3.31	0.01	1.07	<2	<0.05	<1	<5	<5	9
1891624	Soil	0.023	8	27	0.86	255	0.109	<20	1.84	0.03	0.25	<2	0.25	<1	<5	<5	6
1891625	Soil	0.017	7	26	0.77	184	0.108	<20	1.89	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1891626	Soil	0.032	7	33	1.52	816	0.238	<20	2.83	<0.01	0.88	<2	<0.05	<1	<5	5	6
1891627	Soil	0.032	7	26	1.28	614	0.192	<20	2.43	<0.01	0.78	<2	<0.05	<1	<5	<5	8
1891628	Soil	0.014	6	23	1.20	137	0.134	<20	2.31	<0.01	0.42	<2	<0.05	<1	<5	<5	<5
1891629	Soil	0.013	6	28	0.77	249	0.105	<20	1.72	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1891630	Soil	0.032	10	25	1.19	562	0.148	<20	2.18	0.02	0.49	<2	0.12	<1	<5	<5	9
1891631	Soil	0.030	12	36	0.63	187	0.111	<20	1.76	0.01	0.11	<2	<0.05	<1	<5	<5	5
1891632	Soil	0.032	7	28	0.90	268	0.123	<20	2.17	0.02	0.25	<2	0.07	<1	<5	<5	5
1891633	Soil	0.024	10	35	0.79	245	0.121	<20	2.05	0.01	0.22	<2	<0.05	<1	<5	<5	7
1891634	Soil	0.030	12	38	1.16	187	0.128	<20	2.24	0.03	0.07	<2	<0.05	<1	<5	<5	8
1891635	Soil	0.025	6	28	0.73	203	0.072	<20	2.14	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1891636	Soil	0.068	8	29	1.10	231	0.050	<20	2.01	0.02	0.06	<2	<0.05	<1	<5	5	9
1891637	Soil	0.022	12	35	0.71	146	0.106	<20	1.79	0.01	0.10	<2	<0.05	<1	<5	<5	8
1891638	Soil	0.020	7	32	1.06	135	0.133	<20	2.19	<0.01	0.21	<2	<0.05	<1	<5	<5	6
1891639	Soil	0.057	6	29	1.71	216	0.192	<20	2.53	0.01	0.76	<2	<0.05	<1	<5	<5	6
1891640	Soil	0.025	5	30	1.53	208	0.217	<20	2.56	0.01	0.69	<2	<0.05	<1	<5	<5	<5
1891641	Soil	0.021	5	34	1.28	186	0.188	<20	2.26	0.01	0.50	<2	<0.05	<1	<5	<5	<5



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Method	Analyte	Unit	MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300		
				Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
				ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
				2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891642	Soil			<2	<3	<2	<1	46	5	58	<0.3	20	14	372	3.62	4	3	38	<0.5	<3	<3	115	0.31
1891643	Soil			<2	<3	<2	<1	47	5	58	<0.3	20	14	376	3.62	4	2	42	<0.5	<3	<3	112	0.31
1891644	Soil			<2	5	2	<1	47	6	68	<0.3	24	17	437	3.92	4	<2	24	<0.5	<3	<3	120	0.29
1891645	Soil			4	3	3	<1	41	6	74	<0.3	21	16	514	3.89	6	3	25	<0.5	<3	<3	109	0.31
1891646	Soil			4	<3	<2	<1	35	6	61	<0.3	22	12	374	3.68	6	4	28	<0.5	<3	<3	94	0.42
1891647	Soil			24	3	4	<1	47	5	59	<0.3	15	12	432	2.70	2	2	29	<0.5	<3	<3	74	0.53
1891648	Soil			6	<3	<2	<1	43	5	56	<0.3	16	10	356	2.98	4	4	27	<0.5	<3	<3	74	0.47
1891649	Soil			6	<3	5	<1	36	4	37	<0.3	11	8	391	2.19	<2	<2	22	<0.5	<3	<3	62	0.44
1891650	Soil			2	<3	<2	<1	79	4	55	<0.3	16	16	406	3.30	3	<2	28	<0.5	<3	<3	106	0.50
1891651	Soil			5	4	<2	<1	46	7	61	<0.3	18	14	587	3.63	3	3	34	<0.5	<3	<3	103	0.57
1891652	Soil			5	<3	5	<1	50	6	68	<0.3	20	16	487	3.81	4	3	30	<0.5	<3	<3	105	0.63
1891653	Soil			5	5	4	<1	42	6	62	<0.3	18	12	469	3.23	5	3	29	<0.5	<3	<3	84	0.58
1891654	Soil			3	<3	<2	<1	29	7	60	<0.3	17	12	478	3.25	6	3	31	<0.5	<3	<3	79	0.48
1891655	Soil			3	<3	<2	<1	38	8	59	<0.3	17	10	255	3.51	5	3	23	<0.5	<3	<3	95	0.32
1891656	Soil			3	<3	<2	<1	34	7	58	<0.3	17	11	329	3.45	6	3	33	<0.5	<3	<3	91	0.43
1891657	Soil			4	<3	3	<1	33	7	69	<0.3	19	8	293	3.08	6	4	35	<0.5	<3	<3	71	0.39
1891658	Soil			<2	<3	<2	<1	28	9	102	<0.3	8	10	239	2.80	4	2	27	<0.5	<3	<3	65	0.50
1891659	Soil			5	5	3	1	101	12	306	<0.3	29	12	878	4.62	5	<2	33	<0.5	<3	<3	82	0.24
1891660	Soil			10	<3	3	<1	36	7	84	<0.3	22	16	448	4.12	4	3	31	<0.5	<3	<3	108	0.30
1891661	Soil			<2	<3	2	<1	50	6	54	<0.3	21	14	338	3.67	5	3	30	<0.5	<3	<3	100	0.46
1891662	Soil			<2	<3	<2	<1	64	5	69	<0.3	17	37	471	3.76	4	2	28	<0.5	<3	<3	117	0.44
1891663	Soil			9	4	6	1	81	16	128	<0.3	10	18	460	4.64	<2	2	42	<0.5	<3	<3	138	0.38
1891664	Soil			6	<3	3	1	98	17	165	<0.3	10	21	532	4.98	<2	<2	45	<0.5	<3	<3	160	0.39
1891665	Soil			6	<3	8	<1	16	9	70	<0.3	11	6	166	2.14	3	2	21	<0.5	<3	<3	49	0.30
1891666	Soil			6	<3	<2	<1	12	7	44	<0.3	9	5	153	1.81	3	<2	19	<0.5	<3	<3	36	0.24
1891667	Soil			6	<3	4	<1	16	7	51	<0.3	11	9	309	2.41	4	<2	20	<0.5	<3	<3	52	0.31
1891668	Soil			4	<3	<2	<1	8	6	40	<0.3	8	4	143	1.55	3	2	18	<0.5	<3	<3	29	0.23
1891669	Soil			4	<3	3	<1	40	12	108	<0.3	12	12	520	3.94	3	<2	41	<0.5	<3	<3	89	0.27
1891670	Soil			33	<3	3	<1	28	10	91	<0.3	10	8	281	2.91	2	<2	30	<0.5	<3	<3	71	0.24
1891671	Soil			3	<3	<2	<1	43	12	162	<0.3	10	11	607	5.03	3	<2	42	<0.5	<3	<3	148	0.23



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Method	Analyte	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	0.05	1	5	5	5	
1891642	Soil	0.015	5	33	1.54	208	0.201	<20	2.48	<0.01	0.47	<2	<0.05	<1	<5	5	<5
1891643	Soil	0.016	5	33	1.58	207	0.219	<20	2.47	<0.01	0.52	<2	<0.05	<1	<5	<5	<5
1891644	Soil	0.021	3	52	2.11	233	0.276	<20	2.98	<0.01	1.12	<2	<0.05	<1	<5	<5	<5
1891645	Soil	0.033	7	29	1.51	251	0.200	<20	2.61	<0.01	0.76	<2	<0.05	<1	<5	<5	6
1891646	Soil	0.026	10	32	1.32	341	0.177	<20	2.60	0.01	0.36	<2	<0.05	<1	<5	<5	7
1891647	Soil	0.074	9	24	1.10	334	0.140	<20	1.90	0.01	0.43	<2	<0.05	<1	<5	<5	5
1891648	Soil	0.047	12	27	1.09	391	0.141	<20	2.04	0.01	0.16	<2	<0.05	<1	<5	<5	6
1891649	Soil	0.037	5	16	0.71	219	0.122	<20	1.38	0.02	0.18	<2	<0.05	<1	<5	<5	<5
1891650	Soil	0.088	4	28	1.57	253	0.190	<20	2.46	0.01	0.61	<2	<0.05	<1	<5	<5	<5
1891651	Soil	0.054	8	31	1.33	475	0.188	<20	2.62	0.01	0.30	<2	<0.05	<1	<5	<5	6
1891652	Soil	0.046	9	34	1.57	407	0.202	<20	2.66	0.01	0.34	<2	<0.05	<1	<5	<5	7
1891653	Soil	0.051	10	26	1.32	350	0.159	<20	2.24	0.01	0.25	<2	<0.05	<1	<5	<5	7
1891654	Soil	0.042	7	25	0.99	212	0.138	<20	1.99	0.01	0.17	<2	<0.05	<1	<5	<5	<5
1891655	Soil	0.036	9	27	1.05	183	0.158	<20	2.37	0.01	0.19	<2	<0.05	<1	<5	<5	<5
1891656	Soil	0.025	7	28	1.12	228	0.139	<20	2.17	0.02	0.06	<2	<0.05	<1	<5	<5	<5
1891657	Soil	0.036	12	33	0.81	281	0.115	<20	1.85	0.02	0.07	<2	<0.05	<1	<5	<5	7
1891658	Soil	0.162	8	12	1.05	201	0.110	<20	2.05	<0.01	0.10	<2	<0.05	<1	<5	8	<5
1891659	Soil	0.065	7	93	1.48	195	0.083	<20	2.45	0.04	0.13	<2	0.19	<1	<5	<5	6
1891660	Soil	0.043	5	35	1.55	321	0.240	<20	2.85	0.01	0.76	<2	<0.05	<1	<5	<5	6
1891661	Soil	0.033	7	29	1.25	141	0.128	<20	2.37	0.02	0.14	<2	<0.05	<1	<5	<5	7
1891662	Soil	0.038	5	27	1.17	203	0.160	<20	2.38	0.02	0.46	<2	<0.05	<1	<5	<5	7
1891663	Soil	0.058	6	12	1.29	410	0.154	<20	2.54	0.06	0.57	<2	0.50	<1	<5	<5	8
1891664	Soil	0.059	5	11	1.46	400	0.168	<20	2.72	0.06	0.63	<2	0.49	<1	<5	<5	9
1891665	Soil	0.037	6	18	0.65	152	0.097	<20	1.48	0.01	0.11	<2	<0.05	<1	<5	<5	<5
1891666	Soil	0.044	6	17	0.45	131	0.054	<20	1.09	0.01	0.05	<2	<0.05	<1	<5	<5	<5
1891667	Soil	0.046	7	18	0.63	130	0.084	<20	1.41	0.01	0.08	<2	<0.05	<1	<5	<5	<5
1891668	Soil	0.034	7	14	0.46	95	0.060	<20	1.06	0.01	0.05	<2	<0.05	<1	<5	<5	<5
1891669	Soil	0.064	7	19	1.26	401	0.164	<20	2.22	0.01	0.58	<2	0.12	<1	<5	<5	6
1891670	Soil	0.045	6	18	1.06	321	0.143	<20	1.91	0.02	0.41	<2	0.14	<1	<5	<5	<5
1891671	Soil	0.058	7	18	1.82	533	0.201	<20	3.01	0.05	0.97	<2	0.49	<1	<5	6	10



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Method Analyte	Unit	MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300		
			Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
			ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
			2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891672	Soil		3	<3	<2	<1	40	9	121	<0.3	13	15	584	4.44	3	<2	31	<0.5	<3	<3	98	0.30
1891673	Soil		2	<3	3	<1	38	8	86	<0.3	12	12	388	3.46	3	<2	30	<0.5	<3	<3	76	0.28
1891674	Soil		<2	<3	<2	<1	28	9	86	<0.3	14	9	306	3.29	4	<2	40	<0.5	<3	<3	74	0.21
1891675	Soil		5	<3	4	<1	36	10	99	<0.3	12	9	313	3.44	5	2	25	<0.5	<3	<3	74	0.23
1891686	Soil		8	<3	2	<1	36	30	100	<0.3	24	11	597	3.70	78	4	27	0.6	<3	<3	81	0.28
1891687	Soil		<2	<3	<2	<1	22	8	41	<0.3	15	7	225	2.59	5	2	18	<0.5	<3	<3	77	0.22
1891688	Soil		<2	<3	2	<1	18	5	52	<0.3	9	5	295	3.11	5	6	19	<0.5	<3	<3	48	0.14
1891689	Soil		3	<3	<2	<1	85	6	255	<0.3	9	10	577	4.52	2	<2	53	<0.5	<3	<3	120	0.52
1891690	Soil		<2	<3	<2	<1	91	10	244	<0.3	33	35	932	4.42	4	<2	21	<0.5	<3	<3	97	0.44
1891691	Soil		<2	<3	<2	<1	110	6	150	<0.3	21	19	667	4.16	4	<2	21	<0.5	<3	<3	88	0.42
1891692	Soil		4	<3	5	<1	63	4	162	<0.3	11	14	743	4.01	<2	<2	24	<0.5	<3	<3	67	0.47
1891693	Soil		4	<3	7	<1	52	12	117	<0.3	11	10	489	3.29	2	<2	26	<0.5	<3	<3	79	0.46
1891694	Soil		<2	<3	2	<1	44	7	79	<0.3	15	12	504	3.37	5	<2	27	<0.5	<3	<3	68	0.39
1891695	Soil		2	<3	3	<1	32	8	77	<0.3	18	9	348	3.42	9	3	25	<0.5	<3	<3	75	0.28
1891696	Soil		3	<3	9	<1	30	8	70	<0.3	18	8	332	3.42	9	3	25	<0.5	<3	<3	76	0.30
1891728	Soil		3	<3	2	1	32	20	97	<0.3	13	9	400	2.72	4	<2	25	<0.5	<3	<3	52	0.35
1891729	Soil		2	<3	2	1	20	19	112	<0.3	13	13	867	2.90	4	4	32	<0.5	<3	<3	53	0.67
1891730	Soil		3	<3	<2	<1	13	41	119	<0.3	11	4	197	1.92	4	3	18	<0.5	<3	<3	39	0.33
1891731	Soil		3	<3	<2	<1	42	71	270	<0.3	14	13	1389	3.00	4	6	21	1.0	<3	<3	49	0.42
1891732	Soil		5	<3	4	<1	21	22	143	<0.3	21	12	623	3.54	3	3	20	<0.5	<3	<3	66	0.45
1891733	Soil		13	<3	3	1	57	12	79	<0.3	19	14	527	3.62	3	2	18	<0.5	<3	<3	79	0.48
1891734	Soil		<2	<3	<2	<1	26	5	64	<0.3	8	8	704	3.19	<2	<2	27	<0.5	<3	<3	69	0.48
1891735	Soil		<2	<3	<2	<1	34	6	85	<0.3	16	11	619	4.87	<2	<2	32	<0.5	<3	<3	127	0.74
1891736	Soil		3	<3	<2	<1	23	5	71	<0.3	12	11	568	4.22	<2	<2	28	<0.5	<3	<3	95	0.64
1891737	Soil		3	<3	<2	<1	22	6	82	<0.3	14	13	623	4.42	2	2	19	<0.5	<3	<3	104	0.40
1891738	Soil		5	<3	<2	1	23	13	98	<0.3	19	14	809	4.13	2	4	31	<0.5	<3	<3	85	0.66
1891739	Soil		4	3	4	<1	21	8	90	<0.3	16	11	726	3.00	3	3	34	<0.5	<3	<3	59	1.09
1891740	Soil		3	<3	<2	<1	28	8	81	<0.3	19	14	533	3.72	<2	2	21	<0.5	<3	<3	89	0.63
1891741	Soil		2	<3	<2	<1	30	7	79	<0.3	20	15	533	3.91	<2	3	19	<0.5	<3	<3	90	0.65
1891742	Soil		5	5	<2	2	27	19	94	<0.3	16	17	1072	4.01	3	6	17	<0.5	<3	<3	73	0.26



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Method Analyte	Unit	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
1891672	Soil	0.064	6	19	1.44	384	0.183	<20	2.61	0.01	0.54	<2	0.09	<1	<5	<5	6
1891673	Soil	0.047	6	19	1.15	306	0.155	<20	2.14	0.01	0.24	<2	<0.05	<1	<5	<5	<5
1891674	Soil	0.048	8	28	0.97	157	0.120	<20	1.83	0.01	0.08	<2	<0.05	<1	<5	<5	<5
1891675	Soil	0.043	7	22	0.97	192	0.107	<20	2.05	0.01	0.08	<2	0.05	<1	<5	<5	<5
1891686	Soil	0.032	11	43	1.10	277	0.118	<20	2.33	<0.01	0.08	<2	<0.05	<1	<5	<5	6
1891687	Soil	0.021	7	31	0.88	269	0.176	<20	1.75	0.01	0.16	<2	<0.05	<1	<5	<5	<5
1891688	Soil	0.044	14	20	0.70	202	0.109	<20	1.75	0.01	0.26	<2	0.14	<1	<5	<5	<5
1891689	Soil	0.131	10	10	1.49	472	0.129	<20	2.38	0.05	0.31	<2	0.33	<1	<5	5	8
1891690	Soil	0.079	11	72	1.25	226	0.167	<20	2.44	0.02	0.07	<2	<0.05	<1	<5	<5	8
1891691	Soil	0.096	9	30	1.14	221	0.102	<20	2.13	0.02	0.22	<2	<0.05	<1	<5	<5	9
1891692	Soil	0.128	14	17	1.23	546	0.149	<20	2.12	0.02	0.64	<2	0.14	<1	<5	<5	9
1891693	Soil	0.082	10	16	1.01	343	0.110	<20	1.73	0.04	0.25	<2	0.20	<1	<5	<5	8
1891694	Soil	0.068	9	24	0.89	234	0.134	<20	1.83	0.01	0.37	<2	<0.05	<1	<5	<5	6
1891695	Soil	0.032	12	31	0.83	213	0.115	<20	2.11	0.01	0.18	<2	<0.05	<1	<5	<5	6
1891696	Soil	0.030	12	32	0.79	216	0.112	<20	2.13	0.01	0.15	<2	<0.05	<1	<5	<5	5
1891728	Soil	0.050	18	26	0.67	259	0.073	<20	1.69	0.01	0.12	<2	<0.05	<1	<5	<5	<5
1891729	Soil	0.055	22	28	1.03	277	0.093	<20	1.69	0.01	0.21	<2	0.06	<1	<5	<5	5
1891730	Soil	0.053	14	22	0.53	141	0.048	<20	1.25	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1891731	Soil	0.073	24	23	0.69	323	0.072	<20	1.52	0.01	0.15	<2	<0.05	<1	<5	<5	<5
1891732	Soil	0.074	17	42	1.08	276	0.157	<20	1.88	<0.01	0.38	<2	<0.05	<1	<5	<5	<5
1891733	Soil	0.062	9	32	0.95	218	0.099	<20	1.78	0.01	0.17	<2	<0.05	<1	<5	<5	5
1891734	Soil	0.120	13	14	1.19	442	0.119	<20	1.69	0.01	0.44	<2	<0.05	<1	<5	<5	8
1891735	Soil	0.122	16	29	2.24	501	0.199	<20	2.84	0.01	0.55	<2	<0.05	<1	<5	8	12
1891736	Soil	0.099	17	21	1.69	387	0.154	<20	2.36	0.01	0.36	<2	<0.05	<1	<5	<5	11
1891737	Soil	0.096	14	23	1.68	284	0.165	<20	2.44	0.01	0.32	<2	<0.05	<1	<5	9	9
1891738	Soil	0.065	19	34	1.28	319	0.134	<20	2.20	<0.01	0.21	<2	<0.05	<1	<5	<5	7
1891739	Soil	0.067	25	36	0.97	304	0.091	<20	1.72	0.01	0.21	<2	<0.05	<1	<5	<5	6
1891740	Soil	0.082	25	41	1.40	271	0.144	<20	2.14	0.01	0.23	<2	<0.05	<1	<5	5	6
1891741	Soil	0.106	20	43	1.60	254	0.153	<20	2.20	0.01	0.36	<2	<0.05	<1	<5	<5	6
1891742	Soil	0.032	32	32	0.89	238	0.072	<20	2.41	<0.01	0.10	<2	<0.05	<1	<5	6	6



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Method Analyte	Unit	MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300		
			Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
			ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
1891743	Soil		3	<3	<2	1	18	9	92	<0.3	21	13	480	3.84	6	3	17	<0.5	<3	<3	76	0.33
1891744	Soil		3	3	3	1	30	5	76	<0.3	13	10	925	2.90	4	<2	42	<0.5	<3	<3	68	1.27
1891745	Soil		6	<3	<2	1	30	7	86	0.3	13	12	476	3.91	<2	<2	25	<0.5	<3	<3	99	0.47
1891746	Soil		3	<3	<2	1	36	5	94	<0.3	13	15	567	3.83	5	3	25	<0.5	<3	<3	85	0.46
1891747	Soil		5	5	6	<1	31	5	92	<0.3	13	14	688	3.37	3	<2	43	<0.5	<3	<3	75	1.04
1891748	Soil		13	<3	<2	<1	14	4	49	<0.3	13	9	329	2.25	6	<2	28	<0.5	<3	<3	51	0.64
1891749	Soil		4	<3	3	1	12	7	56	<0.3	17	9	543	2.90	7	<2	22	<0.5	<3	<3	72	0.32
1891750	Soil		2	4	<2	1	11	6	46	<0.3	13	6	402	2.67	6	<2	12	<0.5	<3	<3	69	0.13
1891751	Soil		8	<3	<2	1	12	5	52	<0.3	15	8	360	2.72	7	<2	12	<0.5	<3	<3	65	0.14
1891752	Soil		3	<3	<2	<1	20	6	67	<0.3	22	12	406	3.27	5	<2	15	<0.5	<3	<3	72	0.22
1891753	Soil		4	<3	<2	1	14	5	50	<0.3	13	6	390	2.33	5	<2	17	<0.5	<3	<3	56	0.33
1891754	Soil		<2	<3	<2	<1	20	7	69	<0.3	16	10	439	2.62	5	3	42	<0.5	<3	<3	39	1.16
1891755	Soil		4	<3	<2	<1	23	5	40	<0.3	16	8	221	2.38	5	2	26	<0.5	<3	<3	53	0.44
1891756	Soil		3	<3	<2	1	38	4	35	<0.3	13	7	175	2.57	4	<2	13	<0.5	<3	<3	55	0.16
1891757	Soil		5	<3	8	<1	37	4	58	<0.3	20	13	338	3.04	4	2	19	<0.5	<3	<3	72	0.32
1891758	Soil		2	<3	<2	<1	33	4	51	<0.3	20	13	355	2.80	5	2	19	<0.5	<3	<3	67	0.34
1891759	Soil		3	<3	<2	1	43	4	70	<0.3	24	16	490	3.63	5	<2	28	<0.5	<3	<3	89	0.54
1891760	Soil		4	<3	<2	<1	12	5	50	<0.3	13	10	607	2.20	5	2	30	<0.5	<3	<3	54	0.76
1891761	Soil		2	<3	<2	1	11	4	47	<0.3	12	9	511	2.09	4	3	28	<0.5	<3	<3	48	0.67
1891762	Soil		4	<3	<2	1	13	4	53	<0.3	14	9	255	2.79	5	<2	20	<0.5	<3	<3	70	0.36
1891763	Soil		<2	<3	<2	<1	40	4	73	<0.3	18	15	555	3.59	4	<2	26	<0.5	<3	<3	92	0.73
1891764	Soil		3	<3	<2	<1	34	5	59	<0.3	13	9	292	2.54	3	<2	21	<0.5	<3	<3	62	0.43
1891765	Soil		2	<3	<2	<1	26	<3	61	<0.3	12	8	225	2.32	3	<2	19	<0.5	<3	<3	58	0.38
1891766	Soil		<2	<3	<2	1	43	4	76	<0.3	16	14	418	3.60	4	<2	18	<0.5	<3	<3	105	0.30
1891767	Soil		3	<3	<2	1	30	3	65	<0.3	13	10	294	2.81	3	<2	23	<0.5	<3	<3	66	0.47
1891768	Soil		5	6	<2	<1	14	<3	26	<0.3	5	2	61	1.24	3	<2	15	<0.5	<3	<3	14	0.21
1891769	Soil		4	4	<2	<1	12	4	36	<0.3	7	3	92	1.63	3	<2	13	<0.5	<3	<3	23	0.17
1891770	Soil		6	7	<2	<1	23	4	51	<0.3	11	9	168	2.16	3	<2	33	<0.5	<3	<3	33	0.28
1891771	Soil		2	<3	<2	<1	15	4	37	<0.3	8	5	124	1.91	3	<2	17	<0.5	<3	<3	37	0.21
1891772	Soil		7	<3	3	<1	15	3	41	<0.3	10	7	197	1.96	3	<2	15	<0.5	<3	<3	51	0.28



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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
1891743	Soil	0.047	11	48	0.98	274	0.069	<20	2.19	<0.01	0.09	<2	<0.05	<1	<5	<5	
1891744	Soil	0.058	28	24	0.83	424	0.086	<20	1.61	0.01	0.14	<2	0.07	<1	<5	<5	
1891745	Soil	0.036	10	30	1.22	310	0.122	<20	2.24	0.01	0.22	<2	<0.05	<1	<5	<5	
1891746	Soil	0.055	10	27	1.22	261	0.116	<20	2.02	0.01	0.16	<2	<0.05	<1	<5	<5	
1891747	Soil	0.054	10	23	0.99	384	0.085	<20	1.67	0.02	0.18	<2	0.09	<1	<5	<5	
1891748	Soil	0.050	11	21	0.52	242	0.062	<20	1.15	0.01	0.06	<2	<0.05	<1	<5	<5	
1891749	Soil	0.020	7	33	0.53	256	0.085	<20	1.61	0.01	0.08	<2	<0.05	<1	<5	<5	
1891750	Soil	0.034	7	27	0.36	141	0.069	<20	1.39	<0.01	0.05	<2	<0.05	<1	<5	<5	
1891751	Soil	0.036	7	31	0.49	137	0.068	<20	1.70	<0.01	0.05	<2	<0.05	<1	<5	<5	
1891752	Soil	0.033	15	45	0.83	275	0.089	<20	2.16	<0.01	0.06	<2	<0.05	<1	<5	<5	
1891753	Soil	0.030	15	24	0.36	392	0.058	<20	1.55	<0.01	0.07	<2	<0.05	<1	<5	6	
1891754	Soil	0.056	16	21	0.72	520	0.031	<20	1.36	0.01	0.08	<2	0.05	<1	<5	<5	
1891755	Soil	0.038	13	27	0.47	205	0.065	<20	1.78	0.01	0.05	<2	<0.05	<1	<5	<5	
1891756	Soil	0.047	7	28	0.42	117	0.079	<20	1.51	0.01	0.05	<2	<0.05	<1	<5	<5	
1891757	Soil	0.049	9	36	0.81	174	0.117	<20	2.17	0.01	0.05	<2	<0.05	<1	<5	<5	
1891758	Soil	0.063	6	39	0.84	130	0.121	<20	1.75	0.02	0.07	<2	<0.05	<1	<5	<5	
1891759	Soil	0.063	14	51	1.05	204	0.132	<20	2.24	0.02	0.08	<2	<0.05	<1	<5	<5	
1891760	Soil	0.057	13	25	0.54	210	0.063	<20	1.27	0.02	0.06	<2	<0.05	<1	<5	<5	
1891761	Soil	0.054	12	23	0.51	193	0.063	<20	1.17	0.02	0.06	<2	<0.05	<1	<5	<5	
1891762	Soil	0.060	9	27	0.75	126	0.086	<20	1.63	0.02	0.06	<2	<0.05	<1	<5	<5	
1891763	Soil	0.071	10	33	1.06	277	0.149	<20	2.34	0.02	0.12	<2	<0.05	<1	<5	6	
1891764	Soil	0.056	9	25	0.70	251	0.112	<20	1.56	0.01	0.11	<2	<0.05	<1	<5	<5	
1891765	Soil	0.046	9	25	0.87	281	0.107	<20	1.53	0.01	0.17	<2	0.06	<1	<5	<5	
1891766	Soil	0.060	9	34	1.23	227	0.145	<20	1.97	0.02	0.21	<2	<0.05	<1	<5	6	
1891767	Soil	0.068	10	28	1.09	295	0.103	<20	1.89	0.02	0.15	<2	0.06	<1	<5	6	
1891768	Soil	0.058	5	15	0.20	99	0.029	<20	0.69	0.01	0.04	<2	0.10	<1	<5	<5	
1891769	Soil	0.044	6	16	0.38	77	0.044	<20	0.97	0.01	0.05	<2	0.07	<1	<5	<5	
1891770	Soil	0.059	6	22	0.69	223	0.061	<20	1.38	0.01	0.08	<2	0.07	<1	<5	<5	
1891771	Soil	0.048	6	20	0.56	158	0.077	<20	1.18	0.01	0.10	<2	0.06	<1	<5	<5	
1891772	Soil	0.078	6	18	0.79	173	0.092	<20	1.19	0.01	0.17	<2	<0.05	<1	<5	<5	



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Method	Analyte	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891773	Soil	6	4	4	<1	14	<3	30	<0.3	7	3	108	1.46	3	<2	17	<0.5	<3	<3	24	0.17
1891774	Soil	6	3	3	<1	17	4	64	<0.3	7	4	196	1.91	2	<2	19	<0.5	<3	<3	41	0.22
1891775	Soil	8	9	9	<1	9	4	21	<0.3	4	3	94	1.30	<2	<2	16	<0.5	<3	<3	17	0.22
1891776	Soil	3	<3	3	<1	19	5	51	<0.3	9	6	181	1.93	3	<2	27	<0.5	<3	<3	42	0.32
1891777	Soil	4	5	5	1	31	5	44	<0.3	12	9	273	2.72	4	2	24	<0.5	<3	<3	64	0.39
1891778	Soil	8	4	4	1	50	<3	41	<0.3	16	10	318	2.62	4	<2	34	<0.5	<3	<3	65	0.56
1891779	Soil	3	5	2	<1	22	<3	43	<0.3	15	17	761	2.86	6	<2	22	<0.5	<3	<3	74	0.26
1891780	Soil	3	<3	<2	<1	22	3	40	<0.3	13	8	226	2.49	6	<2	19	<0.5	<3	<3	63	0.21
1891781	Soil	4	3	3	<1	22	3	39	<0.3	13	8	237	2.48	7	<2	19	<0.5	<3	<3	63	0.23
1891782	Soil	3	<3	3	<1	20	8	54	<0.3	13	13	404	3.27	6	<2	20	<0.5	<3	<3	77	0.32
1891783	Soil	3	<3	<2	<1	20	<3	48	<0.3	16	12	242	2.94	8	<2	14	<0.5	<3	<3	74	0.21
1891784	Soil	5	4	2	<1	25	6	46	<0.3	18	11	383	2.77	8	2	24	<0.5	<3	<3	67	0.24
1891785	Soil	4	3	5	1	23	5	43	<0.3	13	8	222	2.69	6	2	15	<0.5	<3	<3	63	0.17
1891786	Soil	3	<3	3	<1	27	4	55	<0.3	14	10	234	2.92	7	<2	23	<0.5	<3	<3	80	0.27
1891787	Soil	3	<3	<2	<1	35	<3	45	<0.3	12	12	244	2.52	4	<2	24	<0.5	<3	<3	61	0.36
1891788	Soil	4	<3	4	<1	31	3	42	<0.3	11	9	226	2.34	5	<2	23	<0.5	<3	<3	57	0.36
1891789	Soil	11	3	2	<1	19	4	46	<0.3	13	8	241	2.52	7	<2	17	<0.5	<3	<3	61	0.24
1891790	Soil	13	4	9	<1	22	<3	55	<0.3	13	9	295	2.21	7	<2	30	<0.5	<3	<3	56	0.50
1891791	Soil	<2	<3	<2	<1	24	6	86	<0.3	27	17	693	3.57	7	2	44	<0.5	<3	<3	79	0.68
1891792	Soil	2	<3	<2	<1	25	7	83	<0.3	26	14	610	3.42	7	4	44	<0.5	<3	<3	65	0.64
1891793	Soil	7	<3	2	<1	17	5	63	<0.3	20	11	543	3.00	7	<2	29	<0.5	<3	<3	63	0.42
1891794	Soil	3	<3	4	<1	20	4	49	<0.3	18	11	517	2.78	7	<2	25	<0.5	<3	<3	64	0.40
1891795	Soil	5	<3	<2	<1	10	8	73	<0.3	19	14	432	3.83	5	3	25	<0.5	<3	<3	87	0.44
1891796	Soil	<2	<3	<2	<1	13	12	68	<0.3	16	12	477	3.14	6	2	23	<0.5	<3	<3	70	0.32
1891797	Soil	4	4	5	<1	44	8	98	<0.3	29	17	636	3.67	7	4	26	<0.5	<3	<3	87	0.57
1891798	Soil	2	<3	3	1	21	43	47	<0.3	23	13	522	3.05	7	4	25	<0.5	<3	<3	73	0.46
1891801	Soil	3	<3	<2	<1	31	3	66	<0.3	21	15	438	3.41	6	3	22	<0.5	<3	<3	92	0.37
1891802	Soil	<2	<3	<2	<1	26	4	82	<0.3	25	14	499	3.68	6	<2	19	<0.5	<3	<3	93	0.33
1891803	Soil	<2	<3	<2	<1	27	<3	110	<0.3	22	13	674	3.80	7	<2	23	<0.5	<3	<3	80	0.35
1891804	Soil	<2	<3	<2	<1	23	7	94	<0.3	18	15	444	3.35	6	5	19	<0.5	<3	<3	71	0.26



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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
1891773	Soil	0.045	7	17	0.40	158	0.058	<20	0.94	<0.01	0.08	<2	0.06	<1	<5	<5	
1891774	Soil	0.058	8	16	0.59	161	0.068	<20	1.17	0.01	0.06	<2	0.06	<1	<5	<5	
1891775	Soil	0.050	5	11	0.22	107	0.039	<20	0.68	0.01	0.04	<2	0.06	<1	<5	<5	
1891776	Soil	0.070	5	15	0.51	117	0.073	<20	1.05	0.02	0.04	<2	<0.05	<1	<5	<5	
1891777	Soil	0.043	9	22	0.51	179	0.075	<20	1.38	0.02	0.09	<2	<0.05	<1	<5	<5	
1891778	Soil	0.045	13	24	0.56	202	0.080	<20	1.56	0.02	0.05	<2	<0.05	<1	<5	6	
1891779	Soil	0.047	7	26	0.53	246	0.072	<20	1.83	0.02	0.03	<2	<0.05	<1	<5	<5	
1891780	Soil	0.039	7	22	0.47	205	0.069	<20	1.40	0.01	0.06	<2	<0.05	<1	<5	<5	
1891781	Soil	0.040	7	22	0.46	209	0.069	<20	1.40	0.01	0.05	<2	<0.05	<1	<5	<5	
1891782	Soil	0.087	6	18	0.56	215	0.057	<20	1.75	0.02	0.06	<2	<0.05	<1	<5	<5	
1891783	Soil	0.054	5	21	0.60	208	0.090	<20	1.93	0.01	0.07	<2	<0.05	<1	<5	<5	
1891784	Soil	0.044	10	29	0.53	253	0.068	<20	1.69	0.01	0.04	<2	<0.05	<1	<5	<5	
1891785	Soil	0.039	8	26	0.45	157	0.066	<20	1.78	<0.01	0.04	<2	<0.05	<1	<5	<5	
1891786	Soil	0.037	9	27	0.54	196	0.096	<20	1.93	0.01	0.05	<2	<0.05	<1	<5	<5	
1891787	Soil	0.071	9	22	0.53	196	0.079	<20	1.38	0.02	0.04	<2	<0.05	<1	<5	<5	
1891788	Soil	0.066	9	20	0.49	188	0.078	<20	1.22	0.02	0.04	<2	<0.05	<1	<5	<5	
1891789	Soil	0.042	8	24	0.51	137	0.074	<20	1.50	0.01	0.03	<2	<0.05	<1	<5	<5	
1891790	Soil	0.061	9	23	0.51	232	0.064	<20	1.50	0.01	0.05	<2	<0.05	<1	<5	<5	
1891791	Soil	0.071	11	62	1.17	294	0.139	<20	2.34	0.02	0.47	<2	<0.05	<1	<5	6	
1891792	Soil	0.041	14	47	0.93	320	0.101	<20	2.41	<0.01	0.18	<2	<0.05	<1	<5	6	
1891793	Soil	0.052	9	34	0.66	311	0.090	<20	1.76	<0.01	0.14	<2	<0.05	<1	<5	5	
1891794	Soil	0.025	13	31	0.56	243	0.068	<20	1.70	0.01	0.10	<2	<0.05	<1	<5	5	
1891795	Soil	0.026	7	48	1.28	214	0.162	<20	2.44	<0.01	0.16	<2	<0.05	<1	<5	<5	
1891796	Soil	0.027	7	29	0.85	287	0.097	<20	1.91	<0.01	0.17	<2	<0.05	<1	<5	<5	
1891797	Soil	0.022	11	54	1.12	282	0.150	<20	2.36	0.02	0.29	<2	<0.05	<1	<5	6	
1891798	Soil	0.018	10	43	0.69	274	0.101	<20	1.92	0.02	0.11	<2	<0.05	<1	<5	6	
1891801	Soil	0.038	7	39	1.30	293	0.176	<20	2.17	0.01	0.32	<2	<0.05	<1	<5	6	
1891802	Soil	0.040	7	53	0.92	242	0.096	<20	2.39	<0.01	0.09	<2	<0.05	<1	<5	5	
1891803	Soil	0.039	6	36	1.04	290	0.164	<20	2.41	<0.01	0.27	<2	<0.05	<1	<5	<5	
1891804	Soil	0.039	7	31	0.95	244	0.154	<20	2.10	<0.01	0.31	<2	<0.05	<1	<5	<5	



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	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	
	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	
1891805	Soil	<2	<3	3	<1	100	4	57	<0.3	26	29	587	3.53	6	<2	40	<0.5	<3	<3	91	0.95
1891806	Soil	<2	<3	5	1	464	5	65	<0.3	18	16	425	6.11	4	3	64	<0.5	<3	<3	103	0.66
1891807	Soil	<2	10	5	<1	341	<3	39	<0.3	96	26	239	3.18	6	<2	19	<0.5	<3	<3	80	0.32
1891808	Soil	<2	<3	<2	<1	130	7	67	0.4	17	16	449	3.18	6	<2	16	<0.5	<3	<3	80	0.22
1891809	Soil	7	<3	3	1	240	4	39	0.6	26	17	244	3.67	7	<2	15	<0.5	<3	<3	84	0.18
1891810	Soil	3	<3	<2	<1	124	<3	127	<0.3	19	24	646	5.26	4	4	31	0.6	<3	<3	117	1.22
1891811	Soil	4	<3	20	<1	152	3	44	<0.3	50	25	414	2.83	4	<2	19	<0.5	<3	<3	80	0.37
1891812	Soil	2	<3	<2	<1	70	3	49	<0.3	23	22	460	2.99	5	<2	26	<0.5	<3	<3	88	0.45
1891813	Soil	5	3	3	<1	78	11	74	<0.3	31	20	509	2.94	6	3	22	<0.5	<3	<3	85	0.42
1891814	Soil	3	<3	5	<1	60	4	53	<0.3	31	21	534	3.01	9	3	20	<0.5	<3	<3	78	0.38
1891815	Soil	4	<3	<2	<1	15	24	68	<0.3	13	7	500	2.24	6	5	16	<0.5	<3	<3	43	0.30
1891816	Soil	2	<3	2	<1	29	4	100	<0.3	44	19	705	3.95	6	3	25	<0.5	<3	<3	104	0.50
1891817	Soil	2	<3	3	<1	16	21	60	<0.3	19	9	488	2.94	8	4	24	<0.5	<3	<3	57	0.33
1891818	Soil	<2	<3	<2	<1	17	10	50	<0.3	23	11	611	2.98	7	2	26	<0.5	<3	<3	71	0.37
1891819	Soil	<2	<3	2	<1	18	9	46	<0.3	37	18	393	4.32	5	3	20	<0.5	<3	<3	94	0.37
1891820	Soil	<2	<3	<2	<1	50	26	211	0.5	30	13	447	3.36	5	2	21	<0.5	<3	<3	77	0.34
1891821	Soil	3	<3	3	1	51	27	216	0.5	31	13	460	3.46	6	2	22	<0.5	<3	<3	79	0.34
1891822	Soil	3	<3	2	<1	32	8	86	<0.3	23	13	613	3.74	6	<2	21	<0.5	<3	<3	87	0.35
1891823	Soil	3	<3	3	1	28	9	79	<0.3	18	8	842	3.61	8	<2	21	<0.5	<3	<3	67	0.25
1891824	Soil	3	<3	<2	<1	17	8	60	<0.3	19	10	552	3.04	5	<2	18	<0.5	<3	<3	72	0.21
1891825	Soil	<2	<3	<2	<1	27	10	74	<0.3	22	14	382	3.13	3	<2	22	<0.5	<3	<3	64	0.35
1891826	Soil	<2	<3	<2	<1	17	6	104	<0.3	15	13	958	4.59	4	<2	26	<0.5	<3	<3	86	0.48
1891827	Soil	2	<3	<2	<1	25	7	84	<0.3	22	16	404	3.71	4	<2	33	<0.5	<3	<3	97	0.51
1891828	Soil	3	<3	<2	1	15	9	53	<0.3	18	8	485	2.85	5	<2	24	<0.5	<3	<3	65	0.25
1891829	Soil	<2	<3	<2	<1	34	9	191	<0.3	16	10	567	3.79	5	<2	31	<0.5	<3	<3	73	0.37
1891830	Soil	2	<3	<2	<1	24	9	324	0.4	22	20	1077	4.58	<2	<2	30	<0.5	<3	<3	106	0.53
1891831	Soil	4	<3	<2	<1	39	12	90	<0.3	15	13	441	3.92	7	<2	20	<0.5	<3	<3	84	0.23
1891832	Soil	4	<3	<2	1	18	72	86	<0.3	15	6	242	3.56	9	<2	13	<0.5	<3	<3	73	0.12
1891833	Soil	2	<3	<2	<1	19	9	58	<0.3	21	9	452	3.12	9	3	18	<0.5	<3	<3	70	0.18
1891834	Soil	3	<3	<2	1	16	11	62	<0.3	17	8	291	3.44	10	<2	13	<0.5	<3	<3	69	0.11



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Method Analyte	Unit	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	
1891805	Soil	0.284	4	28	0.95	262	0.097	<20	1.99	0.05	0.11	<2	<0.05	<1	<5	<5	<5
1891806	Soil	0.238	15	26	1.21	761	0.238	<20	2.08	0.05	1.00	<2	0.56	<1	<5	<5	6
1891807	Soil	0.021	5	52	0.85	336	0.106	<20	1.77	0.02	0.10	<2	0.06	<1	<5	<5	6
1891808	Soil	0.077	5	26	0.67	276	0.106	<20	1.64	0.02	0.17	<2	0.06	<1	<5	<5	<5
1891809	Soil	0.033	5	43	0.62	283	0.113	<20	1.85	0.01	0.17	<2	0.16	<1	<5	<5	<5
1891810	Soil	0.367	13	29	1.58	598	0.225	<20	2.74	0.06	1.03	<2	<0.05	<1	<5	<5	6
1891811	Soil	0.023	5	55	1.13	442	0.099	<20	1.78	0.02	0.08	<2	<0.05	<1	<5	<5	7
1891812	Soil	0.043	6	35	1.09	597	0.133	<20	1.83	0.02	0.21	<2	<0.05	<1	<5	<5	5
1891813	Soil	0.049	8	59	1.17	355	0.122	<20	1.90	0.01	0.14	<2	<0.05	<1	<5	<5	7
1891814	Soil	0.028	8	61	0.92	411	0.118	<20	1.78	0.02	0.19	<2	<0.05	<1	<5	<5	7
1891815	Soil	0.023	6	26	0.32	273	0.041	<20	1.27	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1891816	Soil	0.051	12	134	1.73	366	0.149	<20	2.67	0.01	0.47	<2	<0.05	<1	<5	<5	11
1891817	Soil	0.030	11	33	0.53	354	0.081	<20	1.87	<0.01	0.17	<2	<0.05	<1	<5	<5	5
1891818	Soil	0.019	9	36	0.57	324	0.076	<20	1.91	0.01	0.07	<2	<0.05	<1	<5	<5	<5
1891819	Soil	0.024	8	71	1.13	331	0.076	<20	2.51	<0.01	0.11	<2	<0.05	<1	<5	5	11
1891820	Soil	0.017	8	71	0.98	220	0.148	<20	2.14	0.01	0.24	<2	<0.05	<1	<5	<5	<5
1891821	Soil	0.017	8	72	1.00	226	0.150	<20	2.21	0.01	0.24	<2	<0.05	<1	<5	<5	5
1891822	Soil	0.086	5	40	0.92	325	0.149	<20	2.41	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1891823	Soil	0.075	8	32	0.72	312	0.088	<20	2.06	<0.01	0.13	<2	<0.05	<1	<5	6	<5
1891824	Soil	0.025	9	34	0.61	249	0.088	<20	2.05	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1891825	Soil	0.109	4	32	0.84	250	0.105	<20	1.94	0.01	0.08	<2	<0.05	<1	<5	<5	<5
1891826	Soil	0.132	5	18	1.18	479	0.227	<20	2.69	<0.01	0.37	<2	<0.05	<1	<5	<5	6
1891827	Soil	0.032	5	35	1.37	410	0.180	<20	2.74	0.02	0.11	<2	<0.05	<1	<5	<5	<5
1891828	Soil	0.037	8	44	0.61	311	0.080	<20	1.74	0.01	0.08	<2	0.05	<1	<5	5	<5
1891829	Soil	0.108	7	24	0.89	414	0.079	<20	2.22	0.01	0.10	<2	0.06	<1	<5	6	<5
1891830	Soil	0.114	7	38	1.68	589	0.168	<20	3.06	0.01	0.23	<2	<0.05	<1	<5	7	9
1891831	Soil	0.030	7	26	1.17	256	0.081	<20	2.49	<0.01	0.18	<2	<0.05	<1	<5	<5	5
1891832	Soil	0.024	7	29	0.55	136	0.099	<20	1.92	0.01	0.15	<2	0.10	<1	<5	<5	<5
1891833	Soil	0.016	10	36	0.60	328	0.090	<20	2.14	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1891834	Soil	0.037	7	30	0.52	223	0.072	<20	2.13	<0.01	0.07	<2	<0.05	<1	<5	6	<5



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Method Analyte	Unit	MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
			Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
			ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
			2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891835	Soil		<2	<3	<2	<1	13	9	30	<0.3	9	5	170	1.95	5	<2	12	<0.5	<3	<3	53	0.11
1891836	Soil		4	<3	2	1	43	9	59	<0.3	20	10	273	4.65	8	<2	16	<0.5	<3	<3	91	0.14
1891837	Soil		2	<3	2	<1	43	5	96	<0.3	13	18	395	4.24	<2	<2	30	<0.5	<3	<3	117	0.34
1891838	Soil		4	<3	<2	<1	45	8	271	<0.3	22	9	536	5.16	5	<2	19	<0.5	<3	<3	150	0.21
1891839	Soil		3	<3	<2	<1	39	8	86	<0.3	24	16	417	4.12	6	<2	20	<0.5	<3	<3	101	0.36
1891840	Soil		4	<3	<2	<1	32	9	67	<0.3	36	13	770	2.68	7	<2	27	<0.5	<3	<3	61	0.79
1891841	Soil		4	<3	2	<1	33	9	68	<0.3	37	13	809	2.71	7	2	27	<0.5	<3	<3	61	0.80
1891842	Soil		2	<3	<2	<1	40	6	52	<0.3	18	19	261	4.19	5	<2	14	<0.5	<3	<3	101	0.21
1891843	Soil		<2	<3	<2	<1	6	6	73	<0.3	23	12	423	2.52	4	<2	16	<0.5	<3	<3	53	0.34
1891844	Soil		3	<3	2	<1	17	8	53	<0.3	13	10	929	2.94	5	<2	24	<0.5	<3	<3	70	0.28
1891845	Soil		4	<3	<2	1	15	9	51	<0.3	14	8	357	3.47	8	<2	16	<0.5	<3	<3	89	0.19
1891846	Soil		3	<3	<2	1	43	8	42	<0.3	19	9	205	4.11	10	<2	17	<0.5	<3	<3	86	0.21
1891847	Soil		4	<3	<2	<1	34	7	43	<0.3	17	8	225	2.68	7	2	20	<0.5	<3	<3	65	0.27
1891848	Soil		2	<3	<2	<1	55	7	75	<0.3	20	17	365	4.44	6	<2	19	<0.5	<3	<3	151	0.42
1891849	Soil		3	<3	4	<1	19	8	46	<0.3	19	9	352	2.87	7	2	19	<0.5	<3	<3	69	0.24
1891850	Soil		3	<3	2	1	32	33	143	<0.3	14	10	446	2.93	4	5	23	<0.5	<3	<3	53	0.34
1891851	Soil		<2	<3	5	1	20	23	90	<0.3	12	8	382	2.91	4	5	19	<0.5	<3	<3	57	0.35
1891852	Soil		3	<3	<2	<1	30	12	100	<0.3	16	13	828	3.48	6	3	33	<0.5	<3	<3	64	1.08
1891853	Soil		<2	<3	2	1	29	14	73	<0.3	23	11	271	3.02	7	5	20	<0.5	<3	<3	63	0.35
1891854	Soil		2	<3	3	1	28	14	76	<0.3	21	11	341	3.09	10	4	23	<0.5	<3	<3	65	0.48
1891855	Soil		8	<3	5	2	27	20	84	<0.3	20	12	499	3.43	10	<2	17	<0.5	<3	<3	71	0.26
1891856	Soil		3	<3	4	1	49	9	68	<0.3	18	14	646	3.73	5	2	20	<0.5	<3	<3	79	0.42
1891857	Soil		3	<3	3	<1	74	6	47	<0.3	20	14	384	3.61	4	<2	20	<0.5	<3	<3	91	0.50
1891858	Soil		<2	<3	<2	1	19	7	68	<0.3	15	14	628	3.86	4	<2	20	<0.5	<3	<3	78	0.39
1891859	Soil		<2	<3	<2	<1	18	8	53	<0.3	20	11	808	3.68	6	2	25	<0.5	<3	<3	68	0.47
1891860	Soil		4	<3	4	<1	48	4	52	<0.3	13	13	745	4.86	2	3	26	<0.5	<3	<3	92	0.61
1891861	Soil		18	<3	<2	1	47	5	51	<0.3	12	13	728	4.75	2	2	24	<0.5	<3	<3	90	0.56
1891862	Soil		6	<3	5	<1	22	8	49	<0.3	16	13	676	4.29	5	3	23	<0.5	<3	<3	83	0.50
1891863	Soil		7	4	5	<1	20	7	47	<0.3	19	9	401	3.13	8	4	27	<0.5	<3	<3	62	0.46
1891864	Soil		<2	<3	4	<1	17	14	69	<0.3	19	10	649	3.37	6	5	21	<0.5	<3	<3	60	0.39



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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
1891835	Soil	0.015	7	17	0.36	495	0.085	<20	1.32	<0.01	0.08	<2	<0.05	<1	<5	<5	
1891836	Soil	0.044	7	30	0.72	424	0.102	<20	2.75	0.03	0.20	<2	0.18	<1	<5	<5	
1891837	Soil	0.068	6	20	1.67	482	0.197	<20	2.72	0.04	0.83	<2	0.26	<1	<5	<5	
1891838	Soil	0.027	8	45	1.97	427	0.223	<20	3.49	<0.01	1.04	<2	<0.05	<1	<5	6	
1891839	Soil	0.067	6	38	1.59	208	0.124	<20	2.81	<0.01	0.10	<2	<0.05	<1	<5	5	
1891840	Soil	0.056	11	29	0.83	246	0.104	<20	1.79	0.03	0.07	<2	<0.05	<1	<5	<5	
1891841	Soil	0.057	11	29	0.85	249	0.104	<20	1.80	0.03	0.07	<2	<0.05	<1	<5	<5	
1891842	Soil	0.024	4	24	0.99	154	0.058	<20	2.55	<0.01	0.09	<2	<0.05	<1	<5	5	
1891843	Soil	0.031	4	17	1.77	174	0.089	<20	2.57	<0.01	0.04	<2	<0.05	<1	<5	6	
1891844	Soil	0.030	6	22	0.62	272	0.086	<20	1.69	<0.01	0.08	<2	<0.05	<1	<5	5	
1891845	Soil	0.031	7	25	0.62	184	0.105	<20	1.93	<0.01	0.06	<2	<0.05	<1	<5	<5	
1891846	Soil	0.037	7	34	0.90	147	0.120	<20	2.36	<0.01	0.13	<2	<0.05	<1	<5	<5	
1891847	Soil	0.046	9	26	0.59	186	0.086	<20	1.95	<0.01	0.06	<2	<0.05	<1	<5	<5	
1891848	Soil	0.057	4	28	1.41	171	0.215	<20	3.27	<0.01	0.08	<2	<0.05	<1	<5	8	
1891849	Soil	0.020	8	32	0.65	257	0.070	<20	2.07	<0.01	0.04	<2	<0.05	<1	<5	<5	
1891850	Soil	0.052	19	27	0.78	258	0.093	<20	1.67	0.01	0.16	<2	<0.05	<1	<5	<5	
1891851	Soil	0.040	16	24	0.70	252	0.096	<20	1.81	0.01	0.12	<2	<0.05	<1	<5	<5	
1891852	Soil	0.068	25	26	0.84	312	0.078	<20	1.82	<0.01	0.27	<2	<0.05	<1	<5	<5	
1891853	Soil	0.054	25	33	0.74	178	0.098	<20	1.87	0.01	0.12	<2	<0.05	<1	<5	<5	
1891854	Soil	0.060	19	31	0.77	191	0.116	<20	1.84	0.01	0.19	<2	<0.05	<1	<5	<5	
1891855	Soil	0.055	13	31	0.61	149	0.086	<20	1.83	<0.01	0.07	<2	<0.05	<1	<5	<5	
1891856	Soil	0.056	9	32	0.76	241	0.081	<20	1.89	0.01	0.11	<2	<0.05	<1	<5	<5	
1891857	Soil	0.066	5	35	1.06	181	0.102	<20	2.03	0.02	0.05	<2	<0.05	<1	<5	6	
1891858	Soil	0.056	6	27	0.98	341	0.098	<20	2.23	0.02	0.19	<2	<0.05	<1	<5	7	
1891859	Soil	0.031	14	28	0.65	406	0.071	<20	1.79	0.01	0.17	<2	<0.05	<1	<5	<5	
1891860	Soil	0.135	14	23	1.27	475	0.094	<20	2.15	0.01	0.49	<2	<0.05	<1	<5	9	
1891861	Soil	0.122	14	24	1.24	466	0.093	<20	2.10	<0.01	0.47	<2	<0.05	<1	<5	7	
1891862	Soil	0.059	15	23	0.75	223	0.045	<20	1.68	0.01	0.12	<2	<0.05	<1	<5	<5	
1891863	Soil	0.028	17	27	0.78	299	0.096	<20	1.79	0.02	0.10	<2	<0.05	<1	<5	<5	
1891864	Soil	0.028	18	33	0.55	273	0.044	<20	1.70	<0.01	0.12	<2	<0.05	<1	<5	<5	



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CERTIFICATE OF ANALYSIS

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Method	Analyte	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891865	Soil	3	<3	<2	1	19	12	101	<0.3	21	13	825	4.25	7	3	21	<0.5	<3	<3	78	0.50
1891866	Soil	4	<3	5	<1	24	7	64	<0.3	13	18	794	5.04	3	3	23	<0.5	<3	<3	113	0.59
1891867	Soil	6	<3	5	<1	16	9	58	<0.3	18	9	532	2.98	6	3	23	<0.5	<3	<3	60	0.38
1891868	Soil	<2	<3	3	<1	25	7	59	<0.3	18	13	491	3.49	5	<2	26	<0.5	<3	<3	81	0.51
1891869	Soil	2	<3	4	<1	14	8	49	<0.3	16	10	603	2.76	4	3	25	<0.5	<3	<3	59	0.40
1891870	Soil	2	<3	2	<1	42	8	87	<0.3	13	13	604	4.11	3	2	20	<0.5	<3	<3	97	0.35
1891871	Soil	5	<3	3	1	49	8	55	<0.3	22	10	340	3.10	9	3	30	<0.5	<3	<3	68	0.42
1891872	Soil	<2	<3	4	<1	23	9	77	<0.3	20	11	727	3.47	7	2	21	<0.5	<3	<3	76	0.27
1891873	Soil	<2	<3	3	1	17	9	62	<0.3	17	8	304	3.02	7	<2	12	<0.5	<3	<3	69	0.14
1891874	Soil	3	<3	3	<1	17	10	45	<0.3	19	9	251	3.05	9	2	17	<0.5	<3	<3	69	0.18
1891875	Soil	<2	<3	6	<1	14	9	45	<0.3	17	9	307	3.05	8	2	21	<0.5	<3	<3	66	0.20
1891876	Soil	2	<3	3	<1	19	10	49	<0.3	17	9	343	3.08	8	2	17	<0.5	<3	<3	71	0.19
1891877	Soil	3	<3	5	<1	13	10	60	<0.3	17	10	711	2.97	6	2	13	<0.5	<3	<3	69	0.16
1891878	Soil	3	3	5	1	9	10	44	<0.3	9	5	369	2.34	5	<2	11	<0.5	<3	<3	55	0.08
1891879	Soil	3	<3	3	1	10	11	43	<0.3	10	5	297	2.56	5	<2	9	<0.5	<3	<3	60	0.08
1891880	Soil	2	<3	2	<1	18	10	53	<0.3	22	10	446	3.49	8	3	15	<0.5	<3	<3	70	0.20
1891881	Soil	4	<3	<2	<1	19	10	52	<0.3	23	10	452	3.50	9	3	16	<0.5	<3	<3	70	0.21
1891882	Soil	3	<3	<2	<1	19	9	48	<0.3	21	7	273	2.75	9	4	25	<0.5	<3	<3	61	0.32
1891883	Soil	3	<3	3	<1	13	9	45	<0.3	24	12	306	3.32	3	<2	27	<0.5	<3	<3	86	0.35
1891884	Soil	3	<3	<2	<1	20	15	54	<0.3	22	11	495	3.15	6	3	28	<0.5	<3	<3	73	0.49



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1891865	Soil	0.053	13	32	0.56	317	0.053	<20	1.95	<0.01	0.25	<2	<0.05	<1	<5	<5	12
1891866	Soil	0.074	8	22	1.45	260	0.058	<20	2.71	0.01	0.21	<2	<0.05	<1	<5	7	12
1891867	Soil	0.018	11	31	0.75	282	0.128	<20	1.83	<0.01	0.34	<2	<0.05	<1	<5	<5	6
1891868	Soil	0.058	8	26	1.21	351	0.172	<20	2.20	0.01	0.41	<2	<0.05	<1	<5	<5	5
1891869	Soil	0.028	8	27	0.64	357	0.111	<20	1.67	<0.01	0.32	<2	<0.05	<1	<5	<5	<5
1891870	Soil	0.029	7	20	1.40	323	0.137	<20	2.46	0.01	0.50	<2	<0.05	<1	<5	7	8
1891871	Soil	0.036	12	33	0.67	274	0.104	<20	1.75	0.02	0.15	<2	<0.05	<1	<5	<5	7
1891872	Soil	0.041	8	41	0.69	306	0.074	<20	2.36	<0.01	0.08	<2	<0.05	<1	<5	8	<5
1891873	Soil	0.026	7	36	0.43	189	0.050	<20	2.16	<0.01	0.07	<2	<0.05	<1	<5	7	<5
1891874	Soil	0.018	8	36	0.57	234	0.078	<20	2.23	<0.01	0.04	<2	<0.05	<1	<5	6	<5
1891875	Soil	0.022	10	34	0.55	238	0.087	<20	2.05	<0.01	0.06	<2	<0.05	<1	<5	7	<5
1891876	Soil	0.030	7	28	0.57	228	0.085	<20	2.06	<0.01	0.05	<2	<0.05	<1	<5	6	<5
1891877	Soil	0.022	8	28	0.44	276	0.057	<20	1.90	<0.01	0.04	<2	<0.05	<1	<5	6	<5
1891878	Soil	0.034	9	19	0.27	264	0.052	<20	1.22	<0.01	0.04	<2	<0.05	<1	<5	8	<5
1891879	Soil	0.088	11	20	0.32	151	0.051	<20	1.26	<0.01	0.06	<2	<0.05	<1	<5	7	<5
1891880	Soil	0.024	9	36	0.72	242	0.084	<20	2.26	<0.01	0.15	<2	<0.05	<1	<5	5	<5
1891881	Soil	0.025	9	37	0.72	244	0.092	<20	2.29	<0.01	0.15	<2	<0.05	<1	<5	6	<5
1891882	Soil	0.016	13	32	0.58	246	0.080	<20	1.77	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1891883	Soil	0.016	6	55	0.99	171	0.107	<20	2.13	0.01	0.04	<2	<0.05	<1	<5	8	6
1891884	Soil	0.022	17	47	0.74	221	0.094	<20	2.09	0.01	0.11	<2	<0.05	<1	<5	5	8



QUALITY CONTROL REPORT

WHI17000847.1

Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
	Au ppb	Pt ppb	Pd ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca ppm	
Pulp Duplicates																					
1891535	Soil	3	<3	<2	<1	30	9	54	<0.3	23	11	458	3.07	8	6	29	<0.5	<3	<3	64	0.42
REP 1891535	QC	22	<3	<2	<1	30	8	56	<0.3	23	11	459	3.12	8	6	29	<0.5	<3	<3	65	0.43
1891570	Soil	4	<3	4	<1	9	7	31	<0.3	8	4	91	1.47	3	<2	21	<0.5	<3	<3	24	0.32
REP 1891570	QC	3	3	<2																	
1891571	Soil	4	<3	<2	<1	16	7	61	<0.3	11	6	160	2.11	3	<2	26	<0.5	<3	<3	39	0.42
REP 1891571	QC				<1	16	6	64	<0.3	11	6	165	2.19	3	<2	26	<0.5	<3	<3	39	0.41
1891606	Soil	3	<3	<2	<1	18	7	44	<0.3	20	10	444	2.78	6	4	23	<0.5	<3	<3	59	0.35
REP 1891606	QC	3	<3	<2																	
1891607	Soil	3	<3	5	<1	34	10	63	<0.3	22	13	375	2.94	4	5	23	<0.5	<3	<3	65	0.38
REP 1891607	QC				<1	34	9	60	<0.3	22	12	377	2.93	4	5	22	<0.5	<3	<3	63	0.38
1891640	Soil	5	4	2	<1	46	5	61	<0.3	22	15	398	3.81	4	<2	25	<0.5	<3	<3	121	0.35
REP 1891640	QC	2	<3	<2																	
1891643	Soil	<2	<3	<2	<1	47	5	58	<0.3	20	14	376	3.62	4	2	42	<0.5	<3	<3	112	0.31
REP 1891643	QC				<1	47	6	59	<0.3	20	15	380	3.64	4	2	43	<0.5	<3	<3	113	0.31
1891675	Soil	5	<3	4	<1	36	10	99	<0.3	12	9	313	3.44	5	2	25	<0.5	<3	<3	74	0.23
REP 1891675	QC	4	<3	<2																	
1891689	Soil	3	<3	<2	<1	85	6	255	<0.3	9	10	577	4.52	2	<2	53	<0.5	<3	<3	120	0.52
REP 1891689	QC				<1	81	6	241	<0.3	8	10	566	4.43	2	<2	52	<0.5	<3	<3	115	0.50
1891751	Soil	8	<3	<2	1	12	5	52	<0.3	15	8	360	2.72	7	<2	12	<0.5	<3	<3	65	0.14
REP 1891751	QC	2	<3	2																	
1891756	Soil	3	<3	<2	1	38	4	35	<0.3	13	7	175	2.57	4	<2	13	<0.5	<3	<3	55	0.16
REP 1891756	QC				1	39	5	35	<0.3	13	7	179	2.60	4	<2	14	<0.5	<3	<3	56	0.16
1891786	Soil	3	<3	3	<1	27	4	55	<0.3	14	10	234	2.92	7	<2	23	<0.5	<3	<3	80	0.27
REP 1891786	QC	3	<3	4																	
1891792	Soil	2	<3	<2	<1	25	7	83	<0.3	26	14	610	3.42	7	4	44	<0.5	<3	<3	65	0.64
REP 1891792	QC				1	25	6	82	<0.3	25	14	595	3.40	7	4	43	<0.5	<3	<3	65	0.63
1891823	Soil	3	<3	3	1	28	9	79	<0.3	18	8	842	3.61	8	<2	21	<0.5	<3	<3	67	0.25
REP 1891823	QC	<2	<3	3																	



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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
Pulp Duplicates																	
1891535	Soil	0.021	24	38	0.66	467	0.090	<20	1.97	0.01	0.10	<2	<0.05	<1	<5	<5	8
REP 1891535	QC	0.022	25	38	0.67	479	0.089	<20	1.98	0.01	0.10	<2	<0.05	<1	<5	<5	8
1891570	Soil	0.055	7	20	0.36	173	0.044	<20	1.14	<0.01	0.04	<2	0.06	<1	<5	6	<5
REP 1891570	QC																
1891571	Soil	0.060	7	21	0.59	207	0.065	<20	1.47	0.01	0.05	<2	0.08	<1	<5	<5	<5
REP 1891571	QC	0.061	7	21	0.61	209	0.066	<20	1.47	0.01	0.06	<2	0.07	<1	<5	<5	<5
1891606	Soil	0.021	12	36	0.54	249	0.098	<20	1.60	0.01	0.21	<2	<0.05	<1	<5	<5	6
REP 1891606	QC																
1891607	Soil	0.028	9	42	0.99	231	0.132	<20	1.77	0.01	0.34	<2	<0.05	<1	<5	<5	<5
REP 1891607	QC	0.027	10	41	1.00	232	0.132	<20	1.76	0.01	0.34	<2	<0.05	<1	<5	<5	<5
1891640	Soil	0.025	5	30	1.53	208	0.217	<20	2.56	0.01	0.69	<2	<0.05	<1	<5	<5	<5
REP 1891640	QC																
1891643	Soil	0.016	5	33	1.58	207	0.219	<20	2.47	<0.01	0.52	<2	<0.05	<1	<5	<5	<5
REP 1891643	QC	0.016	5	33	1.59	210	0.207	<20	2.49	<0.01	0.52	<2	<0.05	<1	<5	<5	<5
1891675	Soil	0.043	7	22	0.97	192	0.107	<20	2.05	0.01	0.08	<2	0.05	<1	<5	<5	<5
REP 1891675	QC																
1891689	Soil	0.131	10	10	1.49	472	0.129	<20	2.38	0.05	0.31	<2	0.33	<1	<5	5	8
REP 1891689	QC	0.126	10	9	1.45	463	0.125	<20	2.32	0.04	0.29	<2	0.32	<1	<5	<5	8
1891751	Soil	0.036	7	31	0.49	137	0.068	<20	1.70	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
REP 1891751	QC																
1891756	Soil	0.047	7	28	0.42	117	0.079	<20	1.51	0.01	0.05	<2	<0.05	<1	<5	<5	<5
REP 1891756	QC	0.047	7	29	0.43	119	0.083	<20	1.57	0.01	0.05	<2	<0.05	<1	<5	<5	<5
1891786	Soil	0.037	9	27	0.54	196	0.096	<20	1.93	0.01	0.05	<2	<0.05	<1	<5	<5	<5
REP 1891786	QC																
1891792	Soil	0.041	14	47	0.93	320	0.101	<20	2.41	<0.01	0.18	<2	<0.05	<1	<5	<5	6
REP 1891792	QC	0.041	14	46	0.91	315	0.099	<20	2.36	<0.01	0.17	<2	<0.05	<1	<5	<5	6
1891823	Soil	0.075	8	32	0.72	312	0.088	<20	2.06	<0.01	0.13	<2	<0.05	<1	<5	6	<5
REP 1891823	QC																



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Project: EUK-17029-YT
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		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
1891830	Soil	2	<3	<2	<1	24	9	324	0.4	22	20	1077	4.58	<2	<2	30	<0.5	<3	<3	106	0.53
REP 1891830	QC				<1	24	9	328	<0.3	22	19	1045	4.43	<2	<2	30	<0.5	<3	<3	104	0.53
1891858	Soil	<2	<3	<2	1	19	7	68	<0.3	15	14	628	3.86	4	<2	20	<0.5	<3	<3	78	0.39
REP 1891858	QC	3	<3	<2																	
1891865	Soil	3	<3	<2	1	19	12	101	<0.3	21	13	825	4.25	7	3	21	<0.5	<3	<3	78	0.50
REP 1891865	QC				1	19	13	101	<0.3	21	13	808	4.18	7	2	21	<0.5	<3	<3	76	0.49
1891881	Soil	4	<3	<2	<1	19	10	52	<0.3	23	10	452	3.50	9	3	16	<0.5	<3	<3	70	0.21
REP 1891881	QC	4	<3	5																	
Reference Materials																					
STD CDN-PGMS-19	Standard	254	113	484																	
STD CDN-PGMS-23	Standard	513	498	2249																	
STD CDN-PGMS-19	Standard	284	113	500																	
STD CDN-PGMS-23	Standard	471	465	2163																	
STD CDN-PGMS-19	Standard	216	103	455																	
STD CDN-PGMS-23	Standard	504	426	2055																	
STD CDN-PGMS-19	Standard	260	111	453																	
STD CDN-PGMS-23	Standard	471	470	2139																	
STD CDN-PGMS-19	Standard	222	121	499																	
STD CDN-PGMS-23	Standard	504	529	2170																	
STD CDN-PGMS-19	Standard	204	99	477																	
STD CDN-PGMS-19	Standard	252	109	485																	
STD CDN-PGMS-23	Standard	521	472	2223																	
STD CDN-PGMS-19	Standard	227	108	477																	
STD CDN-PGMS-23	Standard	497	497	2159																	
STD CDN-PGMS-19	Standard	197	107	485																	
STD CDN-PGMS-23	Standard	492	436	2040																	
STD CDN-PGMS-19	Standard	211	114	493																	
STD CDN-PGMS-19	Standard	204	108	494																	
STD CDN-PGMS-23	Standard	503	502	2291																	



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		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1891830	Soil	0.114	7	38	1.68	589	0.168	<20	3.06	0.01	0.23	<2	<0.05	<1	<5	7	9
REP 1891830	QC	0.113	7	37	1.62	574	0.166	<20	2.96	0.01	0.23	<2	<0.05	<1	<5	6	9
1891858	Soil	0.056	6	27	0.98	341	0.098	<20	2.23	0.02	0.19	<2	<0.05	<1	<5	7	5
REP 1891858	QC																
1891865	Soil	0.053	13	32	0.56	317	0.053	<20	1.95	<0.01	0.25	<2	<0.05	<1	<5	<5	12
REP 1891865	QC	0.049	13	31	0.56	314	0.052	<20	1.91	<0.01	0.25	<2	<0.05	<1	<5	<5	11
1891881	Soil	0.025	9	37	0.72	244	0.092	<20	2.29	<0.01	0.15	<2	<0.05	<1	<5	6	<5
REP 1891881	QC																
Reference Materials																	
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
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STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																



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		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
STD DS11	Standard				13	148	135	336	1.6	77	13	1007	3.07	41	8	64	2.6	8	12	48	1.03
STD DS11	Standard				14	154	141	350	1.7	81	13	1100	3.29	44	8	71	2.2	7	10	49	1.10
STD DS11	Standard				13	147	134	337	1.4	76	12	1036	3.11	41	8	66	2.1	5	10	46	1.02
STD DS11	Standard				12	140	135	335	1.5	74	12	995	3.00	41	8	63	2.0	6	10	45	1.02
STD DS11	Standard				13	142	138	332	1.5	76	13	984	2.98	40	8	64	2.4	7	16	48	1.03
STD DS11	Standard				12	142	131	330	1.4	74	12	990	2.98	38	6	64	2.0	7	11	44	1.00
STD DS11	Standard				12	143	130	333	1.5	75	12	1004	3.01	40	6	63	2.1	6	10	46	1.00
STD DS11	Standard				13	140	129	325	1.6	75	13	968	2.89	38	6	59	2.1	8	12	46	1.00
STD DS11	Standard				12	142	130	327	1.4	73	13	973	3.00	41	7	60	2.3	9	11	46	0.99
STD DS11	Standard				13	143	129	327	1.5	74	12	982	2.93	42	5	63	2.2	6	10	46	1.00
STD OREAS45EA	Standard				2	710	12	32	0.4	379	55	426	23.59	11	11	4	1.0	<3	<3	308	0.03
STD OREAS45EA	Standard				2	719	19	32	<0.3	409	56	424	23.54	6	9	4	0.6	<3	<3	329	0.04
STD OREAS45EA	Standard				2	725	17	31	<0.3	405	55	426	23.76	6	9	4	0.6	<3	<3	321	0.04
STD OREAS45EA	Standard				2	683	21	29	<0.3	375	51	398	21.01	5	8	4	<0.5	<3	<3	297	0.04
STD OREAS45EA	Standard				2	708	12	31	0.4	386	55	429	23.25	12	11	4	<0.5	<3	<3	310	0.03
STD OREAS45EA	Standard				2	695	22	29	<0.3	382	52	405	22.05	5	6	4	<0.5	<3	<3	304	0.04
STD OREAS45EA	Standard				2	685	20	32	<0.3	385	52	403	21.84	6	8	4	<0.5	<3	<3	306	0.04
STD OREAS45EA	Standard				2	665	12	29	0.4	350	51	401	20.67	9	10	3	<0.5	<3	<3	287	0.03
STD OREAS45EA	Standard				2	680	10	31	0.4	359	52	410	21.39	9	10	3	0.9	<3	<3	291	0.03
STD OREAS45EA	Standard				1	671	21	30	<0.3	363	50	394	20.34	5	7	4	0.7	<3	<3	293	0.04
STD CDN-PGMS-19 Expected		230	108	476																	
STD CDN-PGMS-23 Expected		496	456	2032																	
STD OREAS45EA Expected					1.6	709	14.3	31.4	0.26	381	52	400	23.51	10	10.7	3.5				303	0.036
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
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	



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		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
STD DS11	Standard	0.071	17	58	0.82	433	0.087	<20	1.12	0.07	0.40	2	0.27	<1	7	<5	<5
STD DS11	Standard	0.074	17	57	0.89	463	0.095	<20	1.21	0.07	0.41	3	0.27	<1	5	<5	<5
STD DS11	Standard	0.069	16	53	0.84	432	0.089	<20	1.12	0.07	0.40	3	0.27	<1	5	<5	<5
STD DS11	Standard	0.068	15	52	0.81	415	0.084	<20	1.06	0.07	0.39	2	0.27	<1	<5	<5	<5
STD DS11	Standard	0.070	17	55	0.82	427	0.086	<20	1.10	0.07	0.39	2	0.27	<1	7	<5	<5
STD DS11	Standard	0.066	15	53	0.80	422	0.088	<20	1.08	0.07	0.39	3	0.26	<1	5	<5	<5
STD DS11	Standard	0.069	16	53	0.82	427	0.088	<20	1.09	0.07	0.40	2	0.26	<1	5	<5	<5
STD DS11	Standard	0.067	15	56	0.79	401	0.081	<20	1.03	0.06	0.38	3	0.27	<1	6	<5	<5
STD DS11	Standard	0.067	16	56	0.79	415	0.083	<20	1.06	0.07	0.37	3	0.27	<1	6	<5	<5
STD DS11	Standard	0.068	16	55	0.81	417	0.083	34	1.07	0.07	0.39	3	0.27	<1	5	<5	<5
STD OREAS45EA	Standard	0.031	8	914	0.10	149	0.099	<20	3.43	0.02	0.06	<2	<0.05	<1	<5	9	87
STD OREAS45EA	Standard	0.031	7	940	0.10	161	0.102	20	3.45	0.02	0.06	<2	<0.05	<1	<5	14	90
STD OREAS45EA	Standard	0.030	7	916	0.10	155	0.105	<20	3.52	0.02	0.06	<2	<0.05	<1	<5	9	88
STD OREAS45EA	Standard	0.029	7	863	0.09	143	0.101	<20	3.26	0.02	0.05	<2	<0.05	<1	<5	18	83
STD OREAS45EA	Standard	0.031	8	918	0.10	150	0.100	<20	3.41	0.02	0.06	<2	<0.05	<1	<5	8	87
STD OREAS45EA	Standard	0.029	7	872	0.09	145	0.102	<20	3.28	0.02	0.05	<2	<0.05	<1	<5	11	83
STD OREAS45EA	Standard	0.030	7	874	0.10	147	0.100	<20	3.29	0.02	0.06	<2	<0.05	<1	<5	20	84
STD OREAS45EA	Standard	0.029	7	858	0.09	134	0.096	<20	3.11	0.02	0.05	<2	<0.05	<1	<5	7	81
STD OREAS45EA	Standard	0.030	7	893	0.09	140	0.097	<20	3.24	0.02	0.05	<2	<0.05	<1	<5	9	83
STD OREAS45EA	Standard	0.029	7	836	0.09	144	0.095	<20	3.07	0.01	0.05	<2	<0.05	<1	<5	20	80
STD CDN-PGMS-19 Expected																	
STD CDN-PGMS-23 Expected																	
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053		0.036			12.4	78
STD DS11 Expected		0.0701	18.6	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
BLK	Blank																
BLK	Blank																
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		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
BLK	Blank	<2	<3	2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	2																	
BLK	Blank	<2	<3	2																	
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01



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Canada

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Aurora Geosciences Ltd. (Whitehorse)**

34A Laberge Road
Whitehorse Yukon Y1A 5Y9 Canada

Project: EUK-17029-YT

Report Date: October 14, 2017

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QUALITY CONTROL REPORT

WHI17000847.1

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

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Client: **Aurora Geosciences Ltd. (Whitehorse)**
34A Laberge Road
Whitehorse Yukon Y1A 5Y9 Canada

Submitted By: Carl Schulze
Receiving Lab: Canada-Whitehorse
Received: September 14, 2017
Report Date: October 09, 2017
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI17000848.1

CLIENT JOB INFORMATION

Project: EUK-17029-YT
Shipment ID:
P.O. Number: EUK-17029-YT
Number of Samples: 77

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
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: Aurora Geosciences Ltd. (Whitehorse)
34A Laberge Road
Whitehorse Yukon Y1A 5Y9
Canada

CC: Nigel Bocking

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	77	Dry at 60C			WHI
SS80	77	Dry at 60C sieve 100g to -80 mesh			VAN
SVRJT	77	Save all or part of Soil Reject			WHI
FA330	77	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	77	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	77	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	77	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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34A Laberge Road
Whitehorse Yukon Y1A 5Y9 Canada

Project: EUK-17029-YT

Report Date: October 09, 2017

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CERTIFICATE OF ANALYSIS

WHI17000848.1

Method	Analyte	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891885	Soil	3	<3	<2	1	16	7	61	<0.3	21	12	423	3.39	7	4	26	<0.5	<3	<3	78	0.42
1891886	Soil	3	<3	3	1	15	4	50	<0.3	19	9	446	2.77	7	3	27	<0.5	<3	<3	62	0.42
1891887	Soil	5	<3	<2	2	34	10	70	<0.3	20	13	394	3.74	7	4	25	<0.5	<3	<3	83	0.40
1891888	Soil	5	<3	3	2	36	10	85	<0.3	23	13	504	3.27	6	4	37	<0.5	<3	<3	68	0.94
1891889	Soil	6	<3	2	<1	29	7	51	<0.3	18	10	449	2.40	7	<2	48	<0.5	<3	<3	54	1.21
1891890	Soil	4	<3	2	<1	37	<3	51	<0.3	19	12	291	2.95	6	2	33	<0.5	<3	<3	76	0.54
1891891	Soil	2	<3	3	<1	34	<3	50	<0.3	16	20	285	4.18	5	<2	27	<0.5	<3	<3	139	0.66
1891892	Soil	3	<3	<2	1	19	9	87	0.3	18	20	770	3.87	5	<2	42	<0.5	<3	<3	98	0.44
1891893	Soil	<2	<3	<2	<1	44	29	126	<0.3	18	21	734	3.99	3	<2	82	<0.5	<3	<3	94	0.75
1891894	Soil	3	<3	<2	<1	28	38	115	<0.3	22	16	669	3.40	6	2	47	<0.5	<3	<3	79	0.53
1891895	Soil	4	<3	<2	<1	41	4	79	<0.3	22	22	600	4.18	5	<2	127	<0.5	<3	<3	107	0.66
1891896	Soil	2	<3	<2	<1	23	8	96	<0.3	21	18	614	3.90	4	<2	48	<0.5	<3	<3	88	0.62
1891897	Soil	2	<3	2	<1	23	5	81	<0.3	28	13	503	3.87	9	2	26	<0.5	<3	<3	83	0.43
1891898	Soil	6	<3	<2	<1	25	19	78	<0.3	21	13	421	3.51	6	2	37	<0.5	<3	<3	77	0.55
1891899	Soil	4	<3	3	<1	24	5	51	<0.3	17	10	344	3.01	8	<2	30	<0.5	<3	<3	76	0.45
1891900	Soil	4	<3	2	1	24	<3	50	<0.3	16	10	342	2.95	9	<2	29	<0.5	<3	<3	75	0.44
1891901	Soil	3	<3	<2	1	42	5	71	0.3	14	15	554	4.47	13	<2	23	<0.5	<3	<3	141	0.41
1891902	Soil	2	<3	3	1	21	8	68	<0.3	24	13	359	4.00	11	2	15	<0.5	<3	<3	104	0.15
1891903	Soil	<2	<3	2	<1	50	<3	94	<0.3	50	15	426	3.81	6	2	25	<0.5	<3	<3	110	0.50
1891904	Soil	<2	<3	3	1	35	4	81	<0.3	30	17	832	3.41	4	<2	44	<0.5	<3	<3	85	0.60
1891905	Soil	4	<3	<2	1	24	5	55	<0.3	25	11	304	3.12	9	4	19	<0.5	<3	<3	74	0.23
1891906	Soil	3	<3	<2	1	26	7	65	<0.3	25	13	543	3.20	5	4	24	<0.5	<3	<3	77	0.47
1891907	Soil	3	<3	3	<1	32	9	59	<0.3	34	13	720	3.36	7	4	24	<0.5	<3	<3	71	0.72
1891908	Soil	3	<3	2	<1	34	<3	119	<0.3	19	21	598	4.15	3	<2	42	<0.5	<3	<3	93	0.55
1891909	Soil	4	<3	2	<1	43	4	66	<0.3	23	18	489	4.09	4	<2	20	<0.5	<3	<3	109	0.31
1891910	Soil	2	<3	<2	<1	42	4	66	<0.3	21	18	466	4.07	5	<2	24	<0.5	<3	<3	120	0.32
1891911	Soil	3	<3	4	<1	40	4	61	<0.3	23	14	768	3.47	7	2	26	<0.5	<3	<3	85	0.48
1891912	Soil	4	<3	3	<1	46	4	60	<0.3	30	15	380	3.82	10	3	23	<0.5	<3	<3	100	0.30
1891913	Soil	3	<3	3	1	18	4	57	<0.3	21	11	331	3.13	8	2	26	<0.5	<3	<3	74	0.33
1891914	Soil	3	<3	3	<1	29	6	58	<0.3	27	14	339	3.38	9	2	23	<0.5	<3	<3	84	0.26

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Client: Aurora Geosciences Ltd. (Whitehorse)

34A Laberge Road
Whitehorse Yukon Y1A 5Y9 Canada

Project: EUK-17029-YT

Report Date: October 09, 2017

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000848.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
1891885	Soil	0.023	13	55	0.74	299	0.084	<20	2.10	0.01	0.08	<2	<0.05	<1	<5	7	7
1891886	Soil	0.022	10	34	0.50	320	0.067	<20	1.77	0.01	0.07	<2	<0.05	<1	<5	5	<5
1891887	Soil	0.024	14	37	0.79	241	0.062	<20	2.30	0.02	0.07	<2	<0.05	<1	<5	7	7
1891888	Soil	0.035	16	40	0.95	311	0.084	<20	1.92	0.02	0.08	<2	<0.05	<1	<5	7	6
1891889	Soil	0.060	12	28	0.60	297	0.065	<20	1.44	0.02	0.06	<2	<0.05	<1	<5	<5	<5
1891890	Soil	0.075	10	28	0.80	267	0.111	<20	1.72	0.03	0.09	<2	<0.05	<1	<5	<5	6
1891891	Soil	0.060	4	22	1.38	170	0.204	<20	2.46	0.09	0.26	<2	<0.05	<1	<5	5	8
1891892	Soil	0.059	5	33	1.30	302	0.136	<20	2.53	0.01	0.07	<2	<0.05	<1	<5	7	<5
1891893	Soil	0.083	5	33	1.44	225	0.150	<20	2.77	0.02	0.15	<2	<0.05	<1	<5	6	6
1891894	Soil	0.041	7	35	1.19	316	0.128	<20	2.39	0.01	0.11	<2	<0.05	<1	<5	6	5
1891895	Soil	0.090	5	36	1.75	275	0.206	<20	2.94	0.02	0.42	<2	<0.05	<1	<5	7	<5
1891896	Soil	0.095	5	33	1.25	366	0.150	<20	2.59	0.01	0.22	<2	<0.05	<1	<5	6	<5
1891897	Soil	0.036	7	65	1.00	210	0.144	<20	2.35	<0.01	0.20	<2	<0.05	<1	<5	7	<5
1891898	Soil	0.041	10	34	0.93	229	0.113	<20	2.12	0.02	0.17	<2	<0.05	<1	<5	6	5
1891899	Soil	0.033	7	31	0.87	241	0.122	<20	1.81	0.01	0.11	<2	<0.05	<1	<5	<5	<5
1891900	Soil	0.032	7	31	0.86	240	0.118	<20	1.76	0.01	0.11	<2	<0.05	<1	<5	7	<5
1891901	Soil	0.032	6	25	1.18	371	0.216	<20	2.22	0.01	0.34	<2	<0.05	<1	<5	7	5
1891902	Soil	0.020	8	37	1.10	263	0.145	<20	2.49	<0.01	0.16	<2	<0.05	<1	<5	6	6
1891903	Soil	0.059	11	19	2.79	493	0.207	<20	3.30	<0.01	0.47	<2	<0.05	<1	<5	10	13
1891904	Soil	0.038	8	24	1.58	660	0.164	<20	2.78	<0.01	0.19	<2	<0.05	<1	<5	7	8
1891905	Soil	0.025	12	36	0.87	233	0.128	<20	1.97	0.01	0.15	<2	<0.05	<1	<5	<5	7
1891906	Soil	0.074	11	30	1.04	345	0.140	<20	1.98	0.02	0.40	<2	<0.05	<1	<5	<5	7
1891907	Soil	0.021	20	37	0.88	287	0.107	<20	2.28	0.01	0.14	<2	<0.05	<1	<5	5	9
1891908	Soil	0.042	4	22	1.35	495	0.191	<20	2.75	0.01	0.42	<2	<0.05	<1	<5	7	<5
1891909	Soil	0.024	4	36	1.67	267	0.226	<20	2.58	<0.01	0.74	<2	<0.05	<1	<5	5	<5
1891910	Soil	0.024	7	33	1.47	213	0.197	<20	2.36	<0.01	0.55	<2	<0.05	<1	<5	7	7
1891911	Soil	0.049	11	31	1.01	403	0.148	<20	2.07	0.02	0.44	<2	<0.05	<1	<5	6	7
1891912	Soil	0.026	10	38	1.15	191	0.181	<20	2.35	0.01	0.44	<2	<0.05	<1	<5	6	6
1891913	Soil	0.029	9	35	0.63	270	0.078	<20	1.96	<0.01	0.11	<2	<0.05	<1	<5	5	<5
1891914	Soil	0.020	7	41	0.91	237	0.117	<20	2.21	0.01	0.14	<2	<0.05	<1	<5	6	<5



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Project: EUK-17029-YT

Report Date: October 09, 2017

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000848.1

Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	
	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	
1891915	Soil	3	<3	3	<1	18	6	66	<0.3	21	10	407	2.94	7	<2	28	<0.5	<3	<3	66	0.34
1891916	Soil	4	<3	2	<1	41	5	66	<0.3	27	16	513	3.70	8	2	48	<0.5	<3	<3	90	0.69
1891917	Soil	4	<3	2	1	29	6	62	<0.3	23	14	579	3.61	9	3	34	<0.5	<3	<3	79	0.53
1891918	Soil	2	<3	<2	2	27	26	155	<0.3	23	14	603	4.56	4	<2	30	<0.5	<3	<3	108	0.39
1891919	Soil	7	<3	2	1	21	12	50	<0.3	19	11	450	3.06	6	3	21	<0.5	<3	<3	67	0.36
1891920	Soil	3	5	3	<1	28	8	51	<0.3	24	14	563	3.42	7	3	36	<0.5	<3	<3	78	0.59
1891921	Soil	<2	<3	<2	<1	27	3	49	0.4	22	14	551	3.29	7	3	37	<0.5	<3	<3	76	0.60
1891922	Soil	3	<3	<2	1	65	4	57	0.4	34	16	489	3.80	11	6	22	<0.5	<3	<3	90	0.43
1891923	Soil	2	<3	2	<1	78	<3	66	0.4	25	19	549	3.62	10	4	45	<0.5	<3	<3	89	0.51
1891924	Soil	<2	<3	<2	1	39	<3	70	0.4	18	19	470	3.76	5	2	71	<0.5	<3	<3	99	0.55
1891925	Soil	<2	<3	<2	1	28	<3	42	0.4	16	13	472	3.52	5	4	22	<0.5	<3	<3	74	0.44
1891926	Soil	2	<3	2	<1	28	4	49	0.4	18	13	581	3.31	7	4	27	<0.5	<3	<3	72	0.50
1891927	Soil	<2	<3	2	1	55	<3	81	0.5	32	18	490	4.48	6	3	21	<0.5	<3	<3	101	0.42
1891928	Soil	<2	<3	<2	2	33	3	63	0.4	22	16	884	3.68	9	3	32	<0.5	<3	<3	79	0.68
1891929	Soil	5	<3	3	<1	39	6	49	0.4	29	11	400	2.93	10	5	31	<0.5	<3	<3	65	0.46
1891930	Soil	<2	<3	<2	1	18	5	75	0.4	19	12	515	3.14	6	4	26	<0.5	<3	<3	66	0.35
1891931	Soil	6	<3	<2	<1	38	3	99	0.4	20	15	622	3.96	9	10	27	<0.5	<3	<3	80	0.44
1891932	Soil	<2	<3	<2	<1	152	<3	82	0.7	20	45	352	7.57	6	3	41	<0.5	<3	<3	333	0.62
1891951	Soil	2	<3	<2	<1	14	8	53	<0.3	19	9	335	2.89	6	6	22	<0.5	<3	<3	62	0.28
1891952	Soil	4	<3	<2	<1	11	12	57	0.4	16	10	476	3.17	6	5	20	<0.5	<3	<3	69	0.22
1891953	Soil	<2	<3	<2	<1	19	11	313	<0.3	22	16	1002	3.87	3	3	23	1.3	<3	<3	85	0.57
1891954	Soil	5	<3	<2	<1	19	5	80	<0.3	19	13	748	3.60	6	3	19	<0.5	<3	<3	96	0.25
1891955	Soil	<2	<3	<2	<1	73	5	68	0.4	19	14	674	4.09	8	4	38	<0.5	<3	<3	92	0.69
1891956	Soil	<2	6	<2	<1	21	3	86	0.4	63	21	494	3.36	6	4	36	<0.5	<3	<3	73	0.60
1891957	Soil	3	<3	<2	<1	17	27	149	<0.3	38	12	796	3.01	10	5	22	<0.5	<3	<3	66	0.46
1891958	Soil	<2	<3	<2	1	18	21	398	0.5	21	13	1267	3.16	3	6	28	0.8	<3	<3	58	0.39
1891959	Soil	3	<3	<2	<1	15	19	95	0.4	19	11	713	3.34	6	10	21	<0.5	<3	<3	60	0.37
1891960	Soil	<2	<3	<2	<1	19	7	107	0.5	34	16	977	3.93	5	8	25	<0.5	<3	<3	72	0.46
1891961	Soil	2	<3	<2	<1	25	8	124	0.5	37	17	909	4.40	5	11	25	<0.5	<3	<3	79	0.44
1891962	Soil	<2	<3	<2	1	51	12	126	<0.3	18	12	984	3.88	6	9	22	<0.5	<3	<3	54	0.54



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	
1891915	Soil	0.043	7	32	0.69	136	0.082	<20	1.92	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1891916	Soil	0.027	10	37	1.20	228	0.121	<20	2.61	0.03	0.08	<2	<0.05	<1	<5	6	7
1891917	Soil	0.031	11	35	0.89	286	0.086	<20	2.09	0.02	0.12	<2	<0.05	<1	<5	6	7
1891918	Soil	0.033	7	55	1.45	688	0.177	<20	2.71	0.01	0.61	<2	0.08	<1	<5	9	8
1891919	Soil	0.013	9	29	0.61	496	0.078	<20	1.77	<0.01	0.21	<2	<0.05	<1	<5	5	<5
1891920	Soil	0.017	9	35	0.88	281	0.115	<20	2.22	0.02	0.15	<2	<0.05	<1	<5	<5	7
1891921	Soil	0.018	9	35	0.85	281	0.120	<20	2.21	0.02	0.16	<2	<0.05	<1	<5	<5	7
1891922	Soil	0.035	15	54	0.95	285	0.141	<20	2.09	0.01	0.39	<2	<0.05	<1	<5	<5	8
1891923	Soil	0.084	8	37	1.15	307	0.154	<20	2.20	0.02	0.26	<2	<0.05	<1	<5	<5	6
1891924	Soil	0.063	8	35	1.27	352	0.175	<20	2.36	0.02	0.49	<2	<0.05	<1	<5	<5	6
1891925	Soil	0.036	9	29	0.90	275	0.125	<20	1.93	0.02	0.33	<2	<0.05	<1	<5	<5	7
1891926	Soil	0.048	10	31	0.85	352	0.113	<20	1.79	0.02	0.34	<2	<0.05	<1	<5	<5	6
1891927	Soil	0.041	8	60	1.50	379	0.210	<20	2.55	<0.01	0.79	<2	<0.05	<1	<5	<5	6
1891928	Soil	0.064	10	35	0.91	492	0.121	<20	1.97	0.02	0.43	<2	<0.05	<1	<5	<5	6
1891929	Soil	0.044	15	32	0.72	238	0.115	<20	1.50	0.02	0.18	<2	<0.05	<1	<5	<5	6
1891930	Soil	0.037	10	34	0.68	362	0.116	<20	1.80	0.01	0.29	<2	<0.05	<1	<5	<5	<5
1891931	Soil	0.051	22	33	1.20	372	0.209	<20	2.25	0.01	0.64	<2	<0.05	<1	<5	<5	5
1891932	Soil	0.095	7	24	1.67	384	0.218	<20	2.34	0.07	0.72	<2	0.08	<1	<5	<5	9
1891951	Soil	0.020	9	33	0.53	233	0.086	<20	1.85	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1891952	Soil	0.028	8	31	0.60	305	0.089	<20	1.88	<0.01	0.12	<2	<0.05	<1	<5	<5	<5
1891953	Soil	0.076	6	76	1.43	308	0.068	<20	2.44	0.03	0.11	<2	<0.05	<1	<5	6	7
1891954	Soil	0.031	8	32	0.60	242	0.072	<20	2.16	<0.01	0.07	<2	<0.05	<1	<5	<5	6
1891955	Soil	0.045	9	37	1.01	264	0.139	<20	2.27	0.04	0.09	<2	<0.05	<1	<5	<5	11
1891956	Soil	0.056	8	196	1.76	289	0.110	<20	2.42	0.02	0.10	<2	<0.05	<1	<5	<5	7
1891957	Soil	0.037	8	85	0.72	375	0.062	<20	1.86	0.01	0.15	<2	<0.05	<1	<5	<5	<5
1891958	Soil	0.048	8	38	0.80	399	0.124	<20	1.98	<0.01	0.28	<2	<0.05	<1	<5	<5	<5
1891959	Soil	0.038	23	31	0.54	334	0.098	<20	1.85	<0.01	0.33	<2	<0.05	<1	<5	<5	6
1891960	Soil	0.071	74	65	1.03	566	0.144	<20	2.20	<0.01	0.66	<2	<0.05	<1	<5	<5	5
1891961	Soil	0.077	94	72	1.14	525	0.163	<20	2.38	<0.01	0.83	<2	<0.05	<1	<5	<5	6
1891962	Soil	0.047	25	29	0.58	443	0.044	<20	1.55	<0.01	0.44	<2	<0.05	<1	<5	<5	6



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CERTIFICATE OF ANALYSIS

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Method	Analyte	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891963	Soil	5	4	3	<1	220	<3	59	0.5	44	30	341	3.81	5	4	28	<0.5	<3	<3	98	0.61
1892451	Soil	2	<3	<2	<1	67	4	76	<0.3	18	17	1203	3.84	7	3	38	<0.5	<3	<3	78	0.41
1892452	Soil	2	<3	<2	<1	38	4	75	0.4	20	13	599	3.63	8	4	26	<0.5	<3	<3	62	0.33
1892453	Soil	<2	<3	<2	<1	50	5	64	0.4	17	32	483	3.03	4	<2	24	<0.5	<3	<3	70	0.41
1892454	Soil	3	<3	<2	<1	118	7	221	0.5	15	9	563	4.89	3	3	80	<0.5	<3	<3	121	0.31
1892455	Soil	4	<3	<2	1	36	6	91	0.5	24	16	628	3.96	7	5	25	<0.5	<3	<3	86	0.38
1892456	Soil	2	<3	3	1	68	4	92	0.6	94	22	576	4.74	10	4	48	<0.5	<3	<3	111	0.65
1892457	Soil	5	<3	3	<1	55	4	73	0.5	23	14	664	3.43	5	3	38	<0.5	<3	<3	74	0.68
1892458	Soil	2	<3	<2	<1	37	5	56	0.3	15	12	297	2.90	6	2	23	<0.5	<3	<3	79	0.44
1892459	Soil	<2	<3	2	<1	26	<3	58	0.3	14	10	371	2.95	7	<2	23	<0.5	<3	<3	78	0.45
1892460	Soil	4	<3	<2	<1	31	15	59	<0.3	28	15	612	3.66	4	5	26	<0.5	<3	<3	81	0.67
1892461	Soil	3	<3	<2	<1	35	19	63	<0.3	18	10	424	3.12	5	6	18	<0.5	<3	<3	62	0.19
1892462	Soil	6	<3	<2	1	19	14	61	<0.3	26	12	366	3.22	7	3	25	<0.5	<3	4	73	0.30
1892463	Soil	4	<3	<2	<1	59	18	52	<0.3	27	12	426	3.06	9	5	24	<0.5	<3	<3	67	0.47
1892464	Soil	3	<3	<2	<1	65	5	50	<0.3	24	20	439	3.32	5	<2	25	<0.5	<3	3	93	0.51
1892465	Soil	3	<3	<2	<1	70	7	52	<0.3	22	22	466	3.51	6	<2	25	<0.5	<3	5	103	0.54
1892466	Soil	<2	<3	<2	<1	280	5	43	<0.3	48	36	384	3.11	14	<2	24	<0.5	<3	5	75	0.46



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1891963	Soil	0.108	11	59	1.34	346	0.183	<20	2.01	0.03	0.57	<2	<0.05	<1	<5	<5	8
1892451	Soil	0.077	6	23	0.58	398	0.074	<20	1.75	0.02	0.19	<2	<0.05	<1	<5	<5	<5
1892452	Soil	0.063	8	33	0.83	375	0.124	<20	2.02	<0.01	0.39	<2	<0.05	<1	<5	<5	6
1892453	Soil	0.101	4	52	0.79	253	0.092	<20	1.62	0.02	0.11	<2	<0.05	<1	<5	<5	6
1892454	Soil	0.085	10	30	1.73	536	0.239	<20	2.95	0.03	0.84	<2	0.40	<1	<5	<5	7
1892455	Soil	0.036	10	38	0.84	157	0.146	<20	2.38	0.01	0.25	<2	<0.05	<1	<5	<5	<5
1892456	Soil	0.037	8	262	1.72	189	0.165	<20	2.90	0.01	0.27	<2	<0.05	<1	<5	<5	7
1892457	Soil	0.092	10	30	1.12	311	0.134	<20	1.84	0.02	0.19	<2	<0.05	<1	<5	<5	5
1892458	Soil	0.056	9	24	0.73	201	0.088	<20	1.80	0.02	0.05	<2	<0.05	<1	<5	<5	5
1892459	Soil	0.047	7	25	0.71	149	0.091	<20	1.65	0.02	0.06	<2	<0.05	<1	<5	<5	<5
1892460	Soil	0.055	18	51	0.77	289	0.079	<20	1.72	0.02	0.15	<2	<0.05	<1	<5	<5	10
1892461	Soil	0.020	11	33	0.48	273	0.065	<20	1.85	<0.01	0.11	<2	<0.05	<1	<5	<5	5
1892462	Soil	0.018	10	48	0.75	290	0.097	<20	2.06	<0.01	0.16	<2	<0.05	<1	<5	5	<5
1892463	Soil	0.019	17	45	0.69	294	0.085	<20	1.80	0.02	0.13	<2	<0.05	<1	<5	<5	9
1892464	Soil	0.047	6	38	1.10	304	0.111	<20	1.95	0.02	0.18	<2	<0.05	<1	<5	6	7
1892465	Soil	0.052	5	32	1.36	329	0.112	<20	2.13	0.03	0.09	<2	<0.05	<1	<5	6	7
1892466	Soil	0.023	7	48	0.91	228	0.088	<20	1.73	0.02	0.12	<2	<0.05	<1	<5	<5	10



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QUALITY CONTROL REPORT

WHI17000848.1

Method	Analyte	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
1891887	Soil	5	<3	<2	2	34	10	70	<0.3	20	13	394	3.74	7	4	25	<0.5	<3	<3	83	0.40
REP 1891887	QC	5	<3	<2																	
1891905	Soil	4	<3	<2	1	24	5	55	<0.3	25	11	304	3.12	9	4	19	<0.5	<3	<3	74	0.23
REP 1891905	QC				<1	24	7	54	<0.3	24	11	300	3.07	8	4	19	<0.5	<3	<3	74	0.23
1891922	Soil	3	<3	<2	1	65	4	57	0.4	34	16	489	3.80	11	6	22	<0.5	<3	<3	90	0.43
REP 1891922	QC	6	<3	3																	
1891959	Soil	3	<3	<2	<1	15	19	95	0.4	19	11	713	3.34	6	10	21	<0.5	<3	<3	60	0.37
REP 1891959	QC				<1	15	15	95	0.4	19	11	706	3.36	6	10	21	<0.5	<3	<3	60	0.36
1892462	Soil	6	<3	<2	1	19	14	61	<0.3	26	12	366	3.22	7	3	25	<0.5	<3	4	73	0.30
REP 1892462	QC	3	<3	<2																	
Reference Materials																					
STD CDN-PGMS-19	Standard	228	103	504																	
STD CDN-PGMS-19	Standard	214	115	498																	
STD CDN-PGMS-23	Standard	471	470	2092																	
STD CDN-PGMS-19	Standard	220	113	508																	
STD CDN-PGMS-23	Standard	485	451	2130																	
STD CDN-PGMS-19	Standard	254	113	484																	
STD CDN-PGMS-23	Standard	513	498	2249																	
STD DS11	Standard				13	145	137	342	1.7	82	14	1029	3.19	45	7	66	2.0	6	10	51	1.04
STD DS11	Standard				14	150	135	354	1.9	79	13	1053	3.19	44	8	66	2.5	7	11	50	1.06
STD DS11	Standard				13	148	146	349	1.7	81	14	1033	3.20	43	6	66	2.3	7	14	50	1.04
STD OREAS45EA	Standard				2	704	7	32	0.4	406	55	419	25.04	12	9	4	<0.5	<3	<3	317	0.03
STD OREAS45EA	Standard				3	684	12	30	0.5	360	52	412	21.61	11	11	3	<0.5	<3	<3	296	0.03
STD OREAS45EA	Standard				2	720	10	33	<0.3	405	55	422	25.57	14	7	4	<0.5	<3	<3	308	0.03
STD OREAS45EA Expected					1.6	709	14.3	31.4	0.26	381	52	400	23.51	10	10.7	3.5				303	0.036
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
STD CDN-PGMS-19 Expected		230	108	476																	
STD CDN-PGMS-23 Expected		496	456	2032																	



QUALITY CONTROL REPORT

WHI17000848.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
Pulp Duplicates																	
1891887	Soil	0.024	14	37	0.79	241	0.062	<20	2.30	0.02	0.07	<2	<0.05	<1	<5	7	7
REP 1891887	QC																
1891905	Soil	0.025	12	36	0.87	233	0.128	<20	1.97	0.01	0.15	<2	<0.05	<1	<5	<5	7
REP 1891905	QC	0.025	12	36	0.86	229	0.125	<20	1.94	0.01	0.15	<2	<0.05	<1	<5	5	7
1891922	Soil	0.035	15	54	0.95	285	0.141	<20	2.09	0.01	0.39	<2	<0.05	<1	<5	<5	8
REP 1891922	QC																
1891959	Soil	0.038	23	31	0.54	334	0.098	<20	1.85	<0.01	0.33	<2	<0.05	<1	<5	<5	6
REP 1891959	QC	0.037	23	31	0.54	334	0.098	<20	1.86	<0.01	0.33	<2	<0.05	<1	<5	<5	6
1892462	Soil	0.018	10	48	0.75	290	0.097	<20	2.06	<0.01	0.16	<2	<0.05	<1	<5	5	<5
REP 1892462	QC																
Reference Materials																	
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD DS11	Standard	0.071	17	59	0.84	436	0.088	<20	1.12	0.07	0.40	2	0.28	<1	<5	<5	<5
STD DS11	Standard	0.073	17	61	0.85	438	0.089	<20	1.14	0.07	0.41	2	0.28	<1	<5	<5	<5
STD DS11	Standard	0.072	17	58	0.84	424	0.088	<20	1.13	0.07	0.40	3	0.29	<1	7	<5	<5
STD OREAS45EA	Standard	0.030	7	899	0.10	149	0.098	<20	3.33	0.02	0.05	<2	<0.05	<1	6	<5	85
STD OREAS45EA	Standard	0.030	8	878	0.09	140	0.098	<20	3.24	0.02	0.06	<2	<0.05	<1	<5	9	83
STD OREAS45EA	Standard	0.032	8	903	0.10	147	0.102	<20	3.41	0.02	0.06	<2	<0.05	<1	14	<5	86
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053		0.036			12.4	78
STD DS11 Expected		0.0701	18.6	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 CDN-PGMS-19 Expected																	
STD CDN-PGMS-23 Expected																	



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Client: **Aurora Geosciences Ltd. (Whitehorse)**
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Whitehorse Yukon Y1A 5Y9 Canada

Project: EUK-17029-YT
Report Date: October 09, 2017

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QUALITY CONTROL REPORT

WHI17000848.1

		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
BLK	Blank	2	<3	<2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
BLK	Blank	<2	<3	<2																	
BLK	Blank	2	<3	3																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	5	<1	<0.01
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	



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QUALITY CONTROL REPORT

WHI17000848.1

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



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34A Laberge Road
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Submitted By: Carl Schulze
Receiving Lab: Canada-Whitehorse
Received: September 14, 2017
Report Date: October 05, 2017
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CERTIFICATE OF ANALYSIS

WHI17000849.1

CLIENT JOB INFORMATION

Project: EUK-17029-YT
Shipment ID:
P.O. Number: EUK-17029-YT
Number of Samples: 45

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
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: Aurora Geosciences Ltd. (Whitehorse)
34A Laberge Road
Whitehorse Yukon Y1A 5Y9
Canada

CC: Nigel Bocking

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	44	Dry at 60C			WHI
SS80	44	Dry at 60C sieve 100g to -80 mesh			VAN
SVRJT	44	Save all or part of Soil Reject			WHI
FA330	44	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	44	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	44	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	44	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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Project: EUK-17029-YT

Report Date: October 05, 2017

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CERTIFICATE OF ANALYSIS

WHI17000849.1

Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	
	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	
1891501	Silt	2	<3	<2	<1	19	4	53	<0.3	11	9	321	2.18	3	<2	34	<0.5	<3	4	48	0.61
1891502	Silt	4	<3	<2	<1	28	5	65	<0.3	12	12	610	2.57	3	<2	39	<0.5	<3	3	56	0.57
1891503	Silt	4	<3	<2	<1	36	6	68	<0.3	16	12	527	2.51	3	<2	82	<0.5	<3	<3	58	1.24
1891504	Silt	8	<3	<2	<1	28	4	66	<0.3	13	16	2218	3.00	4	<2	36	<0.5	<3	<3	61	0.58
1891505	Silt	3	<3	<2	<1	26	5	54	<0.3	12	10	582	2.35	<2	<2	28	<0.5	<3	6	56	0.61
1891506	Silt	4	<3	2	<1	40	<3	61	<0.3	12	12	438	2.66	<2	<2	30	<0.5	<3	5	74	0.74
1891507	Silt	10	<3	3	<1	28	7	74	<0.3	13	19	578	2.67	5	<2	26	<0.5	<3	<3	60	0.54
1891508	Silt	11	<3	<2	<1	32	8	58	<0.3	13	12	475	2.39	5	<2	34	<0.5	<3	<3	57	0.69
1891509	Silt	<2	<3	<2	<1	18	6	50	<0.3	12	17	544	2.50	6	<2	27	<0.5	<3	<3	56	0.53
1891510	Silt	4	<3	<2	<1	31	8	71	<0.3	17	16	876	2.72	6	<2	38	<0.5	<3	4	61	0.70
1891511	Silt	3	<3	<2	<1	28	9	54	<0.3	16	12	514	2.78	2	<2	95	<0.5	<3	<3	59	0.88
1891512	Silt	3	<3	<2	<1	11	10	39	<0.3	13	9	377	1.87	3	<2	33	<0.5	<3	<3	42	0.53
1891513	Silt	3	<3	<2	<1	12	5	38	<0.3	14	8	254	2.00	5	<2	25	<0.5	<3	<3	44	0.46
1891514	Silt	4	<3	<2	<1	16	3	54	<0.3	10	7	179	2.00	3	<2	16	<0.5	<3	<3	51	0.24
1891515	Silt	6	<3	2	<1	36	8	64	<0.3	14	18	686	2.85	4	<2	25	<0.5	<3	<3	79	0.40
1891516	Silt	2	<3	<2	<1	25	5	48	<0.3	9	10	375	2.20	3	<2	15	<0.5	<3	<3	61	0.41
1891517	Silt	3	<3	<2	<1	24	4	51	<0.3	9	11	381	2.23	3	<2	18	<0.5	<3	4	57	0.42
1891518	Silt	3	<3	<2	<1	22	5	54	<0.3	9	10	363	2.22	3	<2	21	<0.5	<3	<3	59	0.41
1891519	Silt	<2	<3	2	<1	21	<3	55	<0.3	10	8	275	2.12	4	<2	21	<0.5	<3	5	55	0.39
1891520	Silt	3	<3	<2	<1	37	5	90	<0.3	14	18	1600	3.03	5	<2	31	<0.5	<3	<3	73	0.62
1891521	Silt	3	<3	2	<1	33	5	83	<0.3	13	15	1303	2.71	4	<2	27	<0.5	<3	<3	65	0.58
1891701	Silt	3	<3	2	<1	22	6	56	<0.3	14	10	333	2.36	3	<2	36	<0.5	<3	<3	54	0.67
1891702	Silt	5	<3	6	<1	27	6	68	<0.3	14	11	490	2.57	3	<2	43	<0.5	<3	<3	57	0.66
1891703	Silt	3	<3	<2	<1	34	7	65	<0.3	15	11	461	2.49	4	<2	47	<0.5	<3	<3	57	0.75
1891704	Silt	19	<3	3	<1	30	<3	79	<0.3	15	16	2198	2.76	5	<2	69	<0.5	<3	<3	60	0.88
1891705	Silt	2	<3	<2	<1	28	4	77	<0.3	14	14	1271	2.90	4	<2	51	<0.5	<3	<3	63	0.72
1891706	Silt	55	<3	<2	<1	20	4	57	<0.3	10	10	810	2.27	4	<2	40	<0.5	<3	<3	51	0.59
1891707	Silt	<2	<3	<2	<1	24	4	60	<0.3	16	10	644	2.31	4	<2	80	<0.5	<3	<3	47	1.02
1891708	Silt	5	<3	3	<1	41	6	92	<0.3	15	18	1489	3.15	4	<2	43	<0.5	<3	<3	69	0.80
1891709	Silt	34	<3	<2	<1	31	4	81	<0.3	14	13	885	2.65	5	<2	34	<0.5	<3	<3	61	0.63



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Project: EUK-17029-YT

Report Date: October 05, 2017

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CERTIFICATE OF ANALYSIS

WHI17000849.1

Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	S %	Hg ppm	Tl ppm	Ga ppm	Sc ppm	
1891501 Silt	0.088	9	18	0.59	107	0.070	<20	1.07	0.02	0.10	<2	<0.05	<1	<5	<5	<5	
1891502 Silt	0.074	7	18	0.72	161	0.075	<20	1.21	0.02	0.13	<2	0.07	<1	<5	<5	<5	
1891503 Silt	0.059	9	24	0.82	214	0.079	<20	1.45	0.02	0.13	<2	0.10	<1	<5	<5	<5	
1891504 Silt	0.094	7	18	0.70	178	0.068	<20	1.13	0.03	0.12	<2	0.07	<1	<5	<5	<5	
1891505 Silt	0.070	8	18	0.71	178	0.084	<20	1.27	0.02	0.19	<2	<0.05	<1	<5	<5	<5	
1891506 Silt	0.078	9	21	0.98	419	0.113	<20	1.74	0.02	0.31	<2	<0.05	<1	<5	5	7	
1891507 Silt	0.072	8	20	0.65	125	0.077	<20	1.25	0.02	0.11	<2	<0.05	<1	<5	<5	<5	
1891508 Silt	0.061	10	21	0.65	124	0.075	<20	1.37	0.02	0.09	<2	<0.05	<1	<5	<5	<5	
1891509 Silt	0.051	8	23	0.62	99	0.075	<20	1.30	0.02	0.09	<2	<0.05	<1	<5	<5	<5	
1891510 Silt	0.060	12	30	0.77	297	0.069	<20	1.64	0.01	0.09	<2	0.06	<1	<5	<5	<5	
1891511 Silt	0.052	15	32	0.80	268	0.085	<20	1.72	0.01	0.13	<2	0.06	<1	<5	5	<5	
1891512 Silt	0.051	9	26	0.54	167	0.064	<20	1.22	0.01	0.05	<2	<0.05	<1	<5	<5	<5	
1891513 Silt	0.045	8	25	0.55	170	0.057	<20	1.25	0.01	0.04	<2	<0.05	<1	<5	<5	<5	
1891514 Silt	0.032	6	20	0.85	174	0.110	<20	1.55	0.01	0.19	<2	<0.05	<1	<5	5	<5	
1891515 Silt	0.052	10	24	0.76	240	0.097	<20	1.70	0.02	0.12	<2	<0.05	<1	<5	5	6	
1891516 Silt	0.052	7	15	0.54	125	0.083	<20	1.22	0.02	0.09	<2	<0.05	<1	<5	<5	<5	
1891517 Silt	0.051	6	13	0.51	136	0.073	<20	1.12	0.03	0.07	<2	<0.05	<1	<5	<5	<5	
1891518 Silt	0.055	7	14	0.56	159	0.081	<20	1.19	0.02	0.09	<2	<0.05	<1	<5	<5	<5	
1891519 Silt	0.049	7	16	0.61	165	0.085	<20	1.27	0.02	0.09	<2	<0.05	<1	<5	<5	<5	
1891520 Silt	0.067	10	21	0.85	242	0.104	<20	1.64	0.02	0.17	<2	0.07	<1	<5	6	5	
1891521 Silt	0.064	9	20	0.80	214	0.096	<20	1.53	0.02	0.16	<2	0.06	<1	<5	<5	<5	
1891701 Silt	0.099	8	21	0.69	133	0.080	<20	1.14	0.02	0.12	<2	<0.05	<1	<5	<5	<5	
1891702 Silt	0.069	8	21	0.79	176	0.086	<20	1.36	0.02	0.14	<2	0.05	<1	<5	<5	<5	
1891703 Silt	0.079	10	22	0.76	189	0.085	<20	1.35	0.02	0.14	<2	0.08	<1	<5	<5	<5	
1891704 Silt	0.068	10	23	0.79	231	0.087	<20	1.50	0.02	0.15	<2	0.09	<1	<5	<5	<5	
1891705 Silt	0.064	8	21	0.84	215	0.089	<20	1.46	0.02	0.15	<2	0.09	<1	<5	<5	<5	
1891706 Silt	0.077	7	17	0.61	143	0.073	<20	1.12	0.02	0.11	<2	0.06	<1	<5	<5	<5	
1891707 Silt	0.053	8	26	0.75	249	0.080	<20	1.25	0.02	0.14	<2	0.10	<1	<5	<5	<5	
1891708 Silt	0.072	10	20	0.85	245	0.083	<20	1.62	0.03	0.17	<2	0.15	<1	<5	<5	5	
1891709 Silt	0.062	8	20	0.83	195	0.092	<20	1.55	0.02	0.16	<2	0.08	<1	<5	<5	<5	



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Project: EUK-17029-YT

Report Date: October 05, 2017

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CERTIFICATE OF ANALYSIS

WHI17000849.1

Method	Analyte	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891710	Silt	5	<3	3	<1	31	7	76	<0.3	14	12	939	2.53	5	<2	34	<0.5	<3	<3	58	0.67
1891711	Silt	11	5	7	<1	20	8	61	<0.3	14	11	429	2.49	4	<2	32	<0.5	<3	<3	58	0.54
1891712	Silt	3	<3	<2	<1	26	<3	66	<0.3	14	15	659	2.63	3	<2	34	<0.5	<3	<3	61	0.57
1891714	Silt	4	4	<2	1	26	12	68	<0.3	12	19	730	2.70	3	<2	32	<0.5	<3	<3	63	0.45
1891715	Silt	7	<3	<2	<1	30	3	76	<0.3	14	15	619	2.53	3	<2	32	<0.5	<3	<3	60	0.62
1891716	Silt	3	<3	<2	<1	26	4	82	<0.3	13	15	566	2.48	4	<2	29	<0.5	<3	<3	59	0.52
1891717	Silt	5	<3	<2	<1	9	<3	28	<0.3	7	3	83	1.28	<2	<2	19	<0.5	<3	<3	25	0.17
1891719	Silt	8	<3	<2	<1	5	<3	21	<0.3	4	2	84	0.95	<2	<2	15	<0.5	<3	<3	16	0.18
1891720	Silt	3	<3	<2	<1	9	8	43	<0.3	7	4	176	1.68	<2	<2	17	<0.5	<3	<3	32	0.23
1891721	Silt	4	<3	<2	<1	15	6	58	<0.3	10	7	240	2.23	3	<2	20	<0.5	<3	<3	50	0.29
1891722	Silt	3	<3	<2	<1	25	6	67	<0.3	13	12	456	2.53	3	<2	26	<0.5	<3	<3	59	0.42
1891723	Silt	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.
1891724	Silt	6	<3	4	<1	43	7	84	<0.3	16	18	2588	3.24	3	<2	45	<0.5	<3	<3	76	0.68
1891725	Silt	3	<3	<2	<1	37	4	70	<0.3	15	13	852	2.65	3	<2	38	<0.5	<3	<3	65	0.73
1891726	Silt	15	4	<2	<1	31	<3	74	<0.3	11	18	2129	2.64	4	<2	25	<0.5	<3	<3	67	0.51



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Whitehorse Yukon Y1A 5Y9 Canada

Project: EUK-17029-YT

Report Date: October 05, 2017

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CERTIFICATE OF ANALYSIS

WHI17000849.1

Method	Analyte	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1891710	Silt	0.059	8	19	0.80	186	0.087	<20	1.47	0.02	0.15	<2	0.08	<1	<5	<5	<5
1891711	Silt	0.069	9	23	0.72	191	0.085	<20	1.40	0.02	0.08	<2	<0.05	<1	<5	<5	<5
1891712	Silt	0.060	10	21	0.79	246	0.080	<20	1.55	0.02	0.09	<2	0.06	<1	<5	<5	<5
1891714	Silt	0.058	6	19	0.83	207	0.084	<20	1.42	0.03	0.15	<2	0.11	<1	<5	<5	<5
1891715	Silt	0.055	6	21	0.85	204	0.081	<20	1.53	0.02	0.10	<2	0.07	<1	<5	<5	<5
1891716	Silt	0.054	6	20	0.85	180	0.080	<20	1.55	0.02	0.08	<2	0.06	<1	<5	<5	<5
1891717	Silt	0.034	6	14	0.31	81	0.051	<20	0.90	0.01	0.05	<2	0.06	<1	<5	<5	<5
1891719	Silt	0.030	5	10	0.24	58	0.035	<20	0.65	0.01	0.04	<2	<0.05	<1	<5	<5	<5
1891720	Silt	0.046	6	13	0.51	83	0.062	<20	1.05	0.01	0.06	<2	<0.05	<1	<5	<5	<5
1891721	Silt	0.046	8	18	0.63	167	0.083	<20	1.34	0.01	0.09	<2	<0.05	<1	<5	<5	<5
1891722	Silt	0.064	10	20	0.77	198	0.092	<20	1.55	0.01	0.16	<2	<0.05	<1	<5	<5	<5
1891723	Silt	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.
1891724	Silt	0.082	9	23	0.84	276	0.092	<20	1.54	0.04	0.22	<2	0.22	<1	<5	<5	6
1891725	Silt	0.062	9	21	0.87	212	0.102	<20	1.65	0.02	0.19	<2	0.10	<1	<5	<5	6
1891726	Silt	0.078	7	14	0.68	177	0.081	<20	1.18	0.03	0.15	<2	0.07	<1	<5	<5	<5



QUALITY CONTROL REPORT

WHI17000849.1

Method	Analyte	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
1891516	Silt	2	<3	<2	<1	25	5	48	<0.3	9	10	375	2.20	3	<2	15	<0.5	<3	<3	61	0.41
REP 1891516	QC				<1	28	4	54	<0.3	10	11	406	2.39	5	<2	16	<0.5	<3	<3	67	0.42
1891708	Silt	5	<3	3	<1	41	6	92	<0.3	15	18	1489	3.15	4	<2	43	<0.5	<3	<3	69	0.80
REP 1891708	QC	8	<3	5																	
1891720	Silt	3	<3	<2	<1	9	8	43	<0.3	7	4	176	1.68	<2	<2	17	<0.5	<3	<3	32	0.23
REP 1891720	QC				<1	8	5	38	<0.3	6	4	169	1.66	<2	<2	16	<0.5	<3	<3	28	0.22
Reference Materials																					
STD CDN-PGMS-19	Standard	220	113	508																	
STD CDN-PGMS-23	Standard	485	451	2130																	
STD CDN-PGMS-19	Standard	223	109	468																	
STD DS11	Standard				15	151	136	340	1.8	80	14	1026	3.20	42	6	66	2.1	8	14	50	1.05
STD DS11	Standard				13	148	146	349	1.7	81	14	1033	3.20	43	6	66	2.3	7	14	50	1.04
STD OREAS45EA	Standard				2	719	15	33	0.3	415	55	424	25.24	11	7	4	<0.5	<3	<3	317	0.03
STD OREAS45EA	Standard				2	720	10	33	<0.3	405	55	422	25.57	14	7	4	<0.5	<3	<3	308	0.03
STD CDN-PGMS-23 Expected		496	456	2032																	
STD CDN-PGMS-19 Expected		230	108	476																	
STD OREAS45EA Expected					1.6	709	14.3	31.4	0.26	381	52	400	23.51	10	10.7	3.5				303	0.036
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
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	5	<1	<0.01



QUALITY CONTROL REPORT

WHI17000849.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
Pulp Duplicates																	
1891516 Silt	0.052	7	15	0.54	125	0.083	<20	1.22	0.02	0.09	<2	<0.05	<1	<5	<5	<5	
REP 1891516 QC	0.055	7	17	0.59	138	0.088	<20	1.33	0.02	0.10	<2	<0.05	<1	<5	<5	<5	
1891708 Silt	0.072	10	20	0.85	245	0.083	<20	1.62	0.03	0.17	<2	0.15	<1	<5	<5	5	
REP 1891708 QC																	
1891720 Silt	0.046	6	13	0.51	83	0.062	<20	1.05	0.01	0.06	<2	<0.05	<1	<5	<5	<5	
REP 1891720 QC	0.040	5	11	0.50	74	0.060	<20	1.04	0.01	0.05	<2	<0.05	<1	<5	<5	<5	
Reference Materials																	
STD CDN-PGMS-19 Standard																	
STD CDN-PGMS-23 Standard																	
STD CDN-PGMS-19 Standard																	
STD DS11 Standard	0.072	17	58	0.84	438	0.091	<20	1.14	0.07	0.41	4	0.29	<1	<5	<5	<5	
STD DS11 Standard	0.072	17	58	0.84	424	0.088	<20	1.13	0.07	0.40	3	0.29	<1	7	<5	<5	
STD OREAS45EA Standard	0.032	7	912	0.10	149	0.101	<20	3.51	0.02	0.06	<2	<0.05	<1	12	5	88	
STD OREAS45EA Standard	0.032	8	903	0.10	147	0.102	<20	3.41	0.02	0.06	<2	<0.05	<1	14	<5	86	
STD CDN-PGMS-23 Expected																	
STD CDN-PGMS-19 Expected																	
STD OREAS45EA Expected	0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053		0.036			12.4	78	
STD DS11 Expected	0.0701	18.6	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	
BLK Blank																	
BLK Blank																	
BLK Blank																	
BLK Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5	
BLK Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5	



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Client: **Aurora Geosciences Ltd. (Whitehorse)**
34A Laberge Road
Whitehorse Yukon Y1A 5Y9 Canada

Submitted By: Carl Schulze
Receiving Lab: Canada-Whitehorse
Received: September 14, 2017
Report Date: October 13, 2017
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CERTIFICATE OF ANALYSIS

WHI17000850.1

CLIENT JOB INFORMATION

Project: EUK-17029-YT
Shipment ID:
P.O. Number: EUK-17029-YT
Number of Samples: 25

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: Aurora Geosciences Ltd. (Whitehorse)
34A Laberge Road
Whitehorse Yukon Y1A 5Y9
Canada

CC: Nigel Bocking

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-250	25	Crush (>90%), split and pulverize 250g rock to 200 mesh			WHI
FA350-Au	25	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	25	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	25	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	25	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.



Bureau Veritas Commodities Canada Ltd.

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Project: EUK-17029-YT
Report Date: October 13, 2017

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CERTIFICATE OF ANALYSIS

WHI17000850.1

Method	WGHT	FA350	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	
1891723	Rock	0.29	<2	<1	2	<3	1	<0.3	1	<1	42	0.39	<2	<2	<1	<0.5	<3	<3	1	0.02	0.001
1892472	Rock	0.39	<2	<1	4	<3	7	<0.3	3	1	172	0.43	<2	<2	21	<0.5	<3	<3	5	0.51	0.036
1892473	Rock	1.01	<2	<1	4	<3	8	<0.3	6	2	295	0.54	<2	<2	36	<0.5	<3	<3	8	0.72	0.061
1892474	Rock	1.08	<2	<1	2	<3	3	<0.3	4	<1	823	0.31	<2	<2	169	<0.5	<3	<3	2	7.28	0.040
1909001	Rock	0.26	<2	<1	5	<3	31	<0.3	1	4	473	2.32	<2	6	123	<0.5	<3	<3	7	0.53	0.023
1909002	Rock	0.54	<2	<1	4	<3	25	<0.3	6	5	335	1.87	<2	3	12	<0.5	<3	<3	27	0.20	0.019
1909003	Rock	0.30	<2	<1	<1	5	<1	<0.3	<1	<1	42	0.28	<2	<2	5	<0.5	<3	<3	<1	0.03	0.001
1909101	Rock	0.19	<2	<1	10	<3	17	<0.3	1	4	95	0.91	<2	<2	43	<0.5	<3	<3	10	0.49	0.043
1909102	Rock	0.31	<2	<1	2	14	59	<0.3	5	8	1804	4.45	8	<2	258	<0.5	<3	<3	68	11.75	0.028
1909103	Rock	0.44	<2	<1	12	<3	1	<0.3	1	1	58	0.52	<2	<2	6	<0.5	<3	<3	3	0.05	<0.001
1909104	Rock	0.43	<2	<1	18	247	43	1.1	1	2	541	1.08	<2	<2	121	<0.5	<3	4	11	2.99	0.005
1909105	Rock	0.62	<2	<1	1	<3	4	<0.3	14	4	105	0.54	<2	<2	16	<0.5	<3	<3	18	0.68	0.022
1909106	Rock	0.53	<2	<1	3	7	43	<0.3	7	11	468	2.06	<2	<2	92	<0.5	<3	<3	46	1.15	0.061
1909107	Rock	0.68	<2	<1	4	<3	4	<0.3	1	<1	193	0.51	<2	<2	20	<0.5	<3	<3	4	1.21	0.024
1909108	Rock	0.40	<2	<1	31	<3	1	<0.3	3	4	59	0.58	<2	<2	6	<0.5	<3	<3	3	0.05	0.001
1909109	Rock	0.51	<2	<1	2	<3	9	<0.3	4	2	253	0.80	<2	<2	38	<0.5	<3	<3	9	0.56	0.043
1909110	Rock	1.07	<2	<1	1	<3	<1	<0.3	<1	<1	44	0.27	<2	<2	13	<0.5	<3	<3	<1	0.08	<0.001
1909111	Rock	0.33	<2	<1	5	<3	7	<0.3	3	1	84	0.56	<2	<2	16	<0.5	<3	<3	3	0.09	0.012
1909151	Rock	1.07	<2	<1	43	<3	3	<0.3	3	5	69	0.59	<2	<2	31	<0.5	<3	<3	9	0.18	0.016
1909152	Rock	0.47	<2	<1	38	<3	35	<0.3	8	11	511	2.71	<2	<2	70	<0.5	<3	<3	101	1.53	0.046
1909154	Rock	0.51	<2	<1	47	<3	38	<0.3	8	14	449	2.68	<2	<2	9	<0.5	<3	<3	77	0.70	0.032
1909155	Rock	0.71	<2	<1	15	<3	28	<0.3	6	10	299	2.73	<2	<2	20	<0.5	<3	<3	85	1.51	0.029
1909156	Rock	0.56	<2	<1	4	<3	4	<0.3	<1	1	62	0.57	<2	<2	12	<0.5	<3	<3	9	0.19	0.015
1909157	Rock	0.58	<2	<1	24	<3	11	<0.3	6	5	209	1.07	<2	<2	28	<0.5	<3	<3	9	0.55	0.044
1909158	Rock	0.85	<2	<1	40	<3	15	<0.3	5	5	123	1.25	<2	2	23	<0.5	<3	<3	12	0.22	0.036



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Aurora Geosciences Ltd. (Whitehorse)

34A Laberge Road
Whitehorse Yukon Y1A 5Y9 Canada

Project: EUK-17029-YT

Report Date: October 13, 2017

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CERTIFICATE OF ANALYSIS

WHI17000850.1

Method	Analyte	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	TI	Ga	Sc
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	20	0.01	0.01	2	0.05	1	5	5	5	5
1891723	Rock	<1	6	0.03	12	0.002	<20	0.05	<0.01	0.02	5	<0.05	<1	<5	<5	<5
1892472	Rock	2	3	0.18	46	0.047	<20	0.23	0.03	0.02	<2	<0.05	<1	<5	<5	<5
1892473	Rock	2	4	0.12	93	0.056	<20	0.46	<0.01	0.04	3	<0.05	<1	<5	<5	<5
1892474	Rock	1	2	0.10	37	0.021	<20	0.17	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
1909001	Rock	14	4	0.49	5255	0.005	<20	0.83	0.09	0.08	<2	0.13	<1	<5	<5	<5
1909002	Rock	14	17	0.60	373	0.069	<20	0.67	0.04	0.03	<2	<0.05	<1	<5	<5	5
1909003	Rock	<1	3	<0.01	42	<0.001	<20	0.19	0.08	0.05	<2	<0.05	<1	<5	<5	<5
1909101	Rock	1	3	0.31	44	0.043	<20	0.46	0.09	0.02	<2	<0.05	<1	<5	<5	<5
1909102	Rock	8	6	4.03	84	<0.001	<20	0.44	<0.01	0.04	<2	<0.05	<1	<5	<5	9
1909103	Rock	<1	5	0.03	17	0.004	<20	0.06	<0.01	0.02	<2	<0.05	<1	<5	<5	<5
1909104	Rock	5	4	0.06	2308	<0.001	<20	0.17	0.07	0.03	<2	0.06	<1	<5	<5	<5
1909105	Rock	<1	61	0.58	31	0.064	<20	0.33	0.06	0.05	<2	<0.05	<1	<5	<5	<5
1909106	Rock	2	17	0.94	144	0.136	<20	1.52	0.03	0.06	<2	<0.05	<1	<5	<5	<5
1909107	Rock	1	6	0.04	30	0.035	<20	0.16	0.02	0.01	<2	<0.05	<1	<5	<5	<5
1909108	Rock	<1	8	0.04	11	0.004	<20	0.07	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
1909109	Rock	2	8	0.17	35	0.040	<20	0.47	<0.01	0.02	<2	<0.05	<1	<5	<5	<5
1909110	Rock	<1	4	0.02	55	0.001	<20	0.24	0.10	0.03	<2	<0.05	<1	<5	<5	<5
1909111	Rock	<1	3	0.14	238	0.008	<20	0.32	0.09	0.09	<2	<0.05	<1	<5	<5	<5
1909151	Rock	<1	5	0.13	59	0.038	<20	0.29	0.10	0.08	<2	<0.05	<1	<5	<5	<5
1909152	Rock	2	17	1.01	37	0.144	<20	1.78	0.22	0.15	<2	<0.05	<1	<5	<5	9
1909154	Rock	2	16	1.29	205	0.162	<20	1.65	0.16	0.47	<2	<0.05	<1	<5	<5	7
1909155	Rock	<1	17	1.00	23	0.077	<20	1.88	0.28	0.10	<2	<0.05	<1	<5	<5	12
1909156	Rock	<1	6	0.12	11	0.018	<20	0.25	0.03	0.05	<2	<0.05	<1	<5	<5	<5
1909157	Rock	2	5	0.22	243	0.062	<20	0.49	0.01	0.12	<2	<0.05	<1	<5	<5	<5
1909158	Rock	8	6	0.25	182	0.046	<20	0.57	0.09	0.16	<2	<0.05	<1	<5	<5	<5



QUALITY CONTROL REPORT

WHI17000850.1

Method	WGHT	FA350	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	
Pulp Duplicates																					
1909002	Rock	0.54	<2	<1	4	<3	25	<0.3	6	5	335	1.87	<2	3	12	<0.5	<3	<3	27	0.20	0.019
REP 1909002	QC		<2																		
1909101	Rock	0.19	<2	<1	10	<3	17	<0.3	1	4	95	0.91	<2	<2	43	<0.5	<3	<3	10	0.49	0.043
REP 1909101	QC			<1	11	<3	18	<0.3	1	4	99	0.93	<2	<2	48	<0.5	<3	<3	11	0.51	0.045
Reference Materials																					
STD DS11	Standard			13	146	129	339	1.5	75	12	995	2.98	41	6	64	2.1	6	11	46	1.01	0.068
STD OREAS45EA	Standard			2	692	19	30	<0.3	379	52	400	20.99	5	7	4	0.8	<3	<3	301	0.04	0.029
STD OXC145	Standard		224																		
STD OXH139	Standard		1292																		
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10	10.7	3.5				303	0.036	0.029
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
STD OXC145 Expected			212																		
STD OXH139 Expected			1312																		
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
BLK	Blank		<2																		
BLK	Blank		<2																		
Prep Wash																					
ROCK-WHI	Prep Blank		2	<1	4	<3	34	<0.3	4	4	591	1.88	<2	<2	26	<0.5	<3	<3	23	0.69	0.037
ROCK-WHI	Prep Blank		<2	<1	2	<3	30	<0.3	1	3	541	1.82	<2	<2	22	<0.5	<3	<3	21	0.60	0.038



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Project: EUK-17029-YT
Report Date: October 13, 2017

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QUALITY CONTROL REPORT

WHI17000850.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
MDL	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
Pulp Duplicates															
1909002	Rock	14	17	0.60	373	0.069	<20	0.67	0.04	0.03	<2	<0.05	<1	<5	<5
REP 1909002	QC														
1909101	Rock	1	3	0.31	44	0.043	<20	0.46	0.09	0.02	<2	<0.05	<1	<5	<5
REP 1909101	QC	2	3	0.32	44	0.047	<20	0.49	0.10	0.02	<2	<0.05	<1	<5	<5
Reference Materials															
STD DS11	Standard	16	53	0.82	409	0.090	<20	1.09	0.07	0.40	2	0.26	<1	5	<5
STD OREAS45EA	Standard	7	871	0.09	142	0.102	<20	3.25	0.01	0.05	<2	<0.05	<1	<5	15
STD OXC145	Standard														
STD OXH139	Standard														
STD OREAS45EA Expected		7.06	849	0.095	148	0.0984		3.13	0.02	0.053		0.036		12.4	78
STD DS11 Expected		18.6	61.5	0.85	417	0.0976	6	1.129	0.0694	0.4	2.9	0.2835	0.3	4.9	4.7
STD OXC145 Expected															
STD OXH139 Expected															
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5
BLK	Blank														
BLK	Blank														
Prep Wash															
ROCK-WHI	Prep Blank	6	3	0.51	68	0.087	<20	0.95	0.10	0.11	<2	<0.05	<1	<5	<5
ROCK-WHI	Prep Blank	6	2	0.46	56	0.078	<20	0.89	0.10	0.10	<2	<0.05	<1	<5	<5