



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 19, 2017
Report Date: October 18, 2017
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI17000891.1

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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Page: 2 of 12

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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	
1891799	Soil	6	<3	<2	<1	31	10	70	<0.3	14	7	344	2.62	5	3	14	<0.5	<3	<3	52	0.27
1891800	Soil	2	<3	<2	<1	9	7	54	<0.3	13	9	680	2.87	5	2	11	<0.5	<3	<3	55	0.16
1891933	Soil	4	<3	<2	<1	43	7	72	<0.3	19	11	541	3.42	7	4	15	<0.5	<3	<3	80	0.22
1891934	Soil	6	<3	2	<1	30	7	60	<0.3	33	11	335	3.06	9	5	13	<0.5	<3	<3	65	0.17
1891935	Soil	3	<3	<2	<1	28	11	64	<0.3	19	8	390	3.49	13	<2	11	<0.5	<3	<3	74	0.12
1891936	Soil	4	<3	5	<1	66	9	52	<0.3	20	10	252	3.44	14	<2	15	<0.5	<3	<3	83	0.20
1891937	Soil	3	<3	<2	<1	8	11	44	<0.3	11	5	256	2.65	10	<2	14	<0.5	<3	<3	61	0.17
1891938	Soil	<2	<3	2	<1	10	10	45	<0.3	13	6	217	2.64	10	<2	10	<0.5	<3	<3	44	0.10
1891939	Soil	2	<3	<2	1	12	14	54	<0.3	17	7	230	3.00	12	4	10	<0.5	<3	<3	58	0.10
1891940	Soil	13	<3	<2	<1	22	12	55	<0.3	19	8	244	2.72	12	3	9	<0.5	<3	<3	48	0.07
1891941	Soil	5	<3	<2	<1	21	11	54	<0.3	19	8	244	2.72	11	<2	9	<0.5	<3	<3	48	0.08
1891942	Soil	<2	<3	<2	<1	12	12	82	<0.3	21	11	336	3.21	11	3	19	<0.5	<3	<3	61	0.20
1891943	Soil	5	<3	3	<1	30	14	66	<0.3	25	10	237	3.61	10	7	7	<0.5	<3	<3	48	0.08
1891944	Soil	3	<3	<2	<1	22	13	72	<0.3	24	13	322	3.46	11	7	8	<0.5	<3	<3	46	0.08
1891945	Soil	5	<3	<2	<1	21	13	57	<0.3	19	9	295	2.94	12	4	9	<0.5	<3	<3	51	0.10
1891946	Soil	4	<3	<2	<1	28	12	74	<0.3	30	13	304	3.49	11	5	7	<0.5	<3	<3	44	0.08
1891947	Soil	3	<3	<2	<1	31	17	93	<0.3	32	16	625	4.00	4	9	7	<0.5	<3	<3	45	0.14
1891948	Soil	4	<3	<2	<1	27	14	72	<0.3	24	12	312	3.36	13	12	9	<0.5	<3	<3	36	0.09
1891949	Soil	2	<3	<2	<1	34	14	91	<0.3	38	17	517	4.10	6	11	7	<0.5	<3	<3	44	0.09
1891950	Soil	3	<3	<2	<1	82	20	95	<0.3	39	18	633	4.36	5	16	7	<0.5	<3	<3	38	0.11
1891964	Soil	6	<3	2	<1	13	10	47	<0.3	14	6	228	2.33	7	5	11	<0.5	<3	<3	43	0.11
1891965	Soil	6	<3	<2	<1	17	9	50	<0.3	15	7	234	2.34	8	2	12	<0.5	<3	<3	40	0.12
1891966	Soil	5	<3	2	<1	15	11	46	<0.3	17	7	204	2.52	10	<2	11	<0.5	<3	<3	46	0.10
1891967	Soil	4	<3	<2	2	48	9	125	0.9	117	14	766	2.84	243	6	7	<0.5	<3	<3	65	0.52
1891968	Soil	<2	<3	<2	<1	10	11	40	<0.3	14	6	163	2.28	16	<2	9	<0.5	<3	<3	42	0.13
1891969	Soil	2	<3	<2	<1	34	18	118	<0.3	42	17	621	4.93	<2	22	5	<0.5	<3	<3	40	0.09
1891970	Soil	3	<3	<2	1	21	12	41	0.7	14	6	208	2.56	29	<2	11	<0.5	<3	<3	55	0.10
1891971	Soil	<2	<3	<2	<1	28	17	82	<0.3	34	13	329	4.02	6	11	7	<0.5	<3	<3	46	0.08
1891972	Soil	2	<3	<2	<1	22	12	51	<0.3	19	9	202	2.96	7	5	8	<0.5	<3	<3	58	0.07
1891973	Soil	5	<3	<2	<1	24	13	49	<0.3	21	8	183	2.90	10	7	8	<0.5	<3	<3	48	0.08



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Page: 2 of 12

Part: 2 of 2

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WHI17000891.1

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	
1891799	Soil	0.029	32	32	0.90	227	0.129	23	1.62	<0.01	0.35	<2	<0.05	<1	<5	<5	
1891800	Soil	0.041	10	33	1.10	314	0.190	23	1.82	<0.01	0.68	<2	<0.05	<1	<5	<5	
1891933	Soil	0.029	40	44	1.27	358	0.183	22	2.26	<0.01	0.61	<2	<0.05	<1	<5	6	<5
1891934	Soil	0.025	124	86	1.24	369	0.169	<20	2.27	<0.01	0.41	<2	<0.05	<1	<5	<5	<5
1891935	Soil	0.063	7	37	0.64	222	0.137	<20	1.78	<0.01	0.33	<2	<0.05	<1	<5	6	<5
1891936	Soil	0.036	7	39	0.73	164	0.070	<20	1.99	0.01	0.08	<2	<0.05	<1	<5	<5	<5
1891937	Soil	0.065	10	25	0.37	163	0.048	<20	1.34	<0.01	0.07	<2	<0.05	<1	<5	6	<5
1891938	Soil	0.034	8	24	0.43	131	0.044	<20	1.41	<0.01	0.06	<2	<0.05	<1	<5	5	<5
1891939	Soil	0.035	13	31	0.44	188	0.049	<20	2.12	<0.01	0.07	<2	<0.05	<1	<5	7	<5
1891940	Soil	0.018	19	30	0.46	184	0.050	<20	1.72	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1891941	Soil	0.018	18	30	0.46	184	0.050	<20	1.72	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1891942	Soil	0.039	9	39	0.71	198	0.099	<20	2.17	<0.01	0.17	<2	<0.05	<1	<5	5	<5
1891943	Soil	0.036	20	39	0.66	175	0.105	<20	2.40	<0.01	0.38	<2	<0.05	<1	<5	6	<5
1891944	Soil	0.025	13	35	0.69	156	0.127	<20	2.17	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1891945	Soil	0.036	31	28	0.49	163	0.091	<20	1.69	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
1891946	Soil	0.028	20	32	0.74	147	0.136	<20	2.19	<0.01	0.44	<2	<0.05	<1	<5	<5	<5
1891947	Soil	0.076	21	45	1.03	194	0.234	<20	2.48	<0.01	1.01	<2	<0.05	<1	<5	<5	<5
1891948	Soil	0.018	42	29	0.52	177	0.071	<20	1.77	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
1891949	Soil	0.038	32	32	0.88	179	0.160	<20	2.37	<0.01	0.69	<2	<0.05	<1	<5	<5	<5
1891950	Soil	0.048	25	29	0.96	190	0.243	<20	2.57	<0.01	1.01	<2	<0.05	<1	<5	<5	<5
1891964	Soil	0.018	19	28	0.52	132	0.092	<20	1.57	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1891965	Soil	0.020	27	29	0.48	223	0.069	<20	1.44	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1891966	Soil	0.027	12	28	0.43	194	0.057	<20	1.54	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1891967	Soil	0.047	35	183	1.08	169	0.026	<20	1.65	<0.01	0.04	<2	<0.05	<1	<5	<5	12
1891968	Soil	0.015	9	22	0.30	166	0.024	<20	1.33	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1891969	Soil	0.044	67	30	0.75	165	0.177	<20	2.18	<0.01	0.84	<2	<0.05	<1	<5	<5	7
1891970	Soil	0.026	12	24	0.27	189	0.037	<20	1.47	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1891971	Soil	0.025	29	40	1.00	173	0.227	<20	2.71	<0.01	0.84	<2	<0.05	<1	<5	<5	<5
1891972	Soil	0.016	33	33	0.52	176	0.110	<20	2.13	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
1891973	Soil	0.025	25	32	0.48	156	0.083	<20	2.31	<0.01	0.15	<2	<0.05	<1	<5	<5	<5



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Page: 3 of 12

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

Method	Analyte	Unit	MDL	FA330	FA330	FA330	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	%		
				2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891974	Soil			5	<3	<2	<1	25	12	49	<0.3	20	10	288	2.99	8	5	9	<0.5	<3	<3	46	0.10
1891975	Soil			4	<3	<2	<1	20	12	54	<0.3	23	10	234	3.27	12	4	12	<0.5	<3	<3	55	0.11
1891976	Soil			2	<3	<2	<1	16	9	57	<0.3	26	10	312	3.41	7	3	13	<0.5	<3	<3	76	0.17
1891977	Soil			2	<3	<2	<1	12	10	50	<0.3	19	8	262	3.47	9	<2	8	<0.5	<3	<3	54	0.10
1891978	Soil			3	<3	2	<1	20	11	52	<0.3	21	9	213	2.89	9	3	8	<0.5	<3	<3	46	0.07
1891979	Soil			4	<3	3	<1	18	13	48	<0.3	18	8	212	3.06	10	10	9	<0.5	<3	<3	47	0.08
1891980	Soil			3	<3	2	<1	29	16	75	<0.3	30	11	348	4.61	10	6	9	<0.5	<3	<3	50	0.10
1891981	Soil			3	<3	<2	<1	28	15	71	<0.3	29	12	313	4.07	11	9	9	<0.5	<3	<3	49	0.10
1891982	Soil			2	<3	<2	<1	11	12	35	<0.3	13	5	121	2.53	8	5	8	<0.5	<3	<3	45	0.08
1891983	Soil			4	<3	<2	<1	20	9	52	<0.3	21	10	269	2.65	9	6	13	<0.5	<3	<3	42	0.11
1891984	Soil			5	<3	3	<1	26	12	64	<0.3	31	13	285	3.70	8	9	8	<0.5	<3	<3	58	0.06
1891985	Soil			3	<3	<2	<1	25	11	65	<0.3	31	13	323	3.46	11	8	8	<0.5	<3	<3	47	0.09
1891986	Soil			4	3	3	1	16	16	42	<0.3	16	8	237	2.77	7	5	9	<0.5	<3	<3	53	0.09
1891987	Soil			<2	<3	<2	<1	21	14	74	<0.3	26	9	267	4.33	10	6	10	<0.5	<3	<3	52	0.11
1892001	Soil			5	<3	5	<1	15	4	41	<0.3	17	7	211	2.22	3	7	15	<0.5	<3	<3	43	0.30
1892002	Soil			<2	<3	3	<1	15	6	48	<0.3	15	7	234	2.16	4	6	13	<0.5	<3	<3	40	0.21
1892003	Soil			2	<3	3	<1	24	7	53	<0.3	15	7	239	2.50	5	4	14	<0.5	<3	<3	55	0.20
1892004	Soil			2	<3	3	<1	21	6	52	<0.3	12	6	252	2.38	6	<2	13	<0.5	<3	<3	59	0.16
1892005	Soil			2	<3	<2	1	15	6	50	<0.3	13	5	235	2.50	5	10	13	<0.5	<3	<3	38	0.14
1892006	Soil			2	<3	<2	<1	22	6	51	<0.3	11	6	266	2.31	6	8	10	<0.5	<3	<3	41	0.12
1892007	Soil			<2	<3	<2	<1	17	6	50	<0.3	12	6	242	2.19	5	6	10	<0.5	<3	<3	39	0.14
1892008	Soil			<2	<3	2	<1	11	5	43	<0.3	12	6	226	2.23	5	5	10	<0.5	<3	<3	39	0.14
1892009	Soil			<2	<3	2	<1	11	6	45	<0.3	11	5	207	2.44	6	5	9	<0.5	<3	<3	47	0.12
1892010	Soil			3	<3	3	<1	11	7	49	<0.3	11	6	253	2.68	8	6	10	<0.5	<3	<3	50	0.15
1892011	Soil			2	<3	2	<1	10	8	44	<0.3	11	5	198	2.29	7	6	11	<0.5	<3	<3	44	0.14
1892012	Soil			8	<3	<2	<1	9	6	41	<0.3	13	5	181	2.04	4	5	8	<0.5	<3	<3	36	0.13
1892013	Soil			3	<3	<2	<1	8	6	40	<0.3	11	5	183	1.99	6	6	9	<0.5	<3	<3	37	0.13
1892014	Soil			6	<3	<2	<1	12	6	42	<0.3	13	5	164	1.82	4	7	13	<0.5	<3	<3	33	0.18
1892015	Soil			12	<3	<2	<1	10	6	33	<0.3	10	4	159	1.93	5	8	13	<0.5	<3	<3	33	0.18
1892016	Soil			3	<3	<2	<1	9	7	37	<0.3	11	5	168	1.98	6	6	11	<0.5	<3	<3	37	0.14



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Page: 3 of 12

Part: 2 of 2

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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	
1891974	Soil	0.037	19	28	0.49	168	0.097	<20	1.83	<0.01	0.21	<2	<0.05	<1	<5	<5	
1891975	Soil	0.022	13	33	0.55	212	0.078	<20	2.06	<0.01	0.11	<2	<0.05	<1	<5	<5	
1891976	Soil	0.059	15	95	1.09	287	0.172	<20	2.24	<0.01	0.38	<2	<0.05	<1	<5	<5	
1891977	Soil	0.043	11	62	0.74	144	0.101	<20	1.87	<0.01	0.18	<2	<0.05	<1	<5	<5	
1891978	Soil	0.022	16	31	0.52	148	0.094	<20	2.08	<0.01	0.17	<2	<0.05	<1	<5	<5	
1891979	Soil	0.019	25	28	0.48	143	0.104	<20	1.89	<0.01	0.17	<2	<0.05	<1	<5	<5	
1891980	Soil	0.034	26	35	0.79	168	0.216	<20	2.63	<0.01	0.53	<2	<0.05	<1	<5	<5	
1891981	Soil	0.031	35	34	0.75	175	0.192	<20	2.55	<0.01	0.48	<2	<0.05	<1	<5	<5	
1891982	Soil	0.023	23	20	0.34	108	0.062	<20	1.28	<0.01	0.11	<2	<0.05	<1	<5	<5	
1891983	Soil	0.017	38	26	0.52	153	0.075	<20	1.51	<0.01	0.10	<2	<0.05	<1	<5	<5	
1891984	Soil	0.022	16	36	0.72	179	0.156	<20	2.47	<0.01	0.37	<2	<0.05	<1	<5	<5	
1891985	Soil	0.025	16	32	0.72	194	0.143	<20	2.22	<0.01	0.37	<2	<0.05	<1	<5	<5	
1891986	Soil	0.032	17	23	0.37	182	0.061	<20	1.84	<0.01	0.11	<2	<0.05	<1	<5	5	
1891987	Soil	0.041	14	29	0.67	208	0.174	<20	2.64	<0.01	0.58	<2	<0.05	<1	<5	<5	
1892001	Soil	0.059	26	37	0.77	247	0.115	<20	1.39	<0.01	0.39	<2	<0.05	<1	<5	<5	
1892002	Soil	0.042	20	41	0.71	208	0.101	<20	1.37	<0.01	0.14	<2	<0.05	<1	<5	<5	
1892003	Soil	0.034	25	44	0.76	241	0.113	<20	1.56	<0.01	0.15	<2	<0.05	<1	<5	<5	
1892004	Soil	0.027	12	38	0.68	216	0.115	<20	1.32	<0.01	0.13	<2	<0.05	<1	<5	<5	
1892005	Soil	0.030	23	31	0.74	313	0.100	<20	1.31	<0.01	0.28	<2	<0.05	<1	<5	<5	
1892006	Soil	0.019	20	23	0.58	195	0.095	<20	1.33	<0.01	0.18	<2	<0.05	<1	<5	<5	
1892007	Soil	0.026	17	27	0.64	224	0.113	<20	1.32	<0.01	0.25	<2	<0.05	<1	<5	<5	
1892008	Soil	0.033	15	29	0.63	210	0.109	<20	1.35	<0.01	0.25	<2	<0.05	<1	<5	<5	
1892009	Soil	0.033	13	29	0.61	174	0.114	<20	1.32	<0.01	0.17	<2	<0.05	<1	<5	<5	
1892010	Soil	0.054	17	28	0.64	189	0.114	<20	1.46	<0.01	0.18	<2	<0.05	<1	<5	<5	
1892011	Soil	0.037	16	23	0.47	169	0.086	<20	1.36	<0.01	0.10	<2	<0.05	<1	<5	<5	
1892012	Soil	0.036	13	26	0.52	115	0.090	<20	1.21	<0.01	0.14	<2	<0.05	<1	<5	<5	
1892013	Soil	0.033	14	22	0.46	130	0.084	<20	1.07	<0.01	0.11	<2	<0.05	<1	<5	<5	
1892014	Soil	0.038	20	21	0.43	177	0.073	<20	1.00	<0.01	0.08	<2	<0.05	<1	<5	<5	
1892015	Soil	0.031	23	18	0.43	226	0.082	<20	1.09	<0.01	0.14	<2	<0.05	<1	<5	<5	
1892016	Soil	0.025	18	21	0.42	170	0.081	<20	1.20	<0.01	0.08	<2	<0.05	<1	<5	<5	



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Report Date: October 18, 2017

Page: 4 of 12

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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
1892017	Soil	3	<3	2	<1	10	6	34	<0.3	9	4	133	1.84	5	4	10	<0.5	<3	<3	33	0.12
1892018	Soil	3	<3	<2	<1	12	6	36	<0.3	10	5	184	1.85	5	9	11	<0.5	<3	<3	31	0.13
1892019	Soil	5	<3	2	1	27	16	75	<0.3	25	7	288	2.54	9	6	24	<0.5	<3	<3	42	0.37
1892020	Soil	6	3	<2	<1	18	10	49	<0.3	16	7	278	2.20	7	6	25	<0.5	<3	<3	38	0.38
1892021	Soil	4	5	3	<1	21	11	49	<0.3	18	8	322	2.31	7	6	29	<0.5	<3	<3	39	0.42
1892022	Soil	6	3	<2	<1	16	10	61	<0.3	15	7	274	2.73	8	13	11	<0.5	<3	<3	46	0.12
1892023	Soil	3	<3	<2	<1	11	9	72	<0.3	13	9	335	3.66	6	10	10	<0.5	<3	<3	60	0.11
1892024	Soil	2	<3	<2	2	11	10	67	<0.3	13	6	309	3.58	6	10	13	<0.5	<3	<3	55	0.16
1892025	Soil	3	<3	<2	<1	13	10	63	<0.3	17	7	318	3.43	8	23	11	<0.5	<3	<3	56	0.14
1892026	Soil	3	<3	<2	<1	16	7	46	<0.3	13	8	321	2.87	5	19	12	<0.5	<3	<3	46	0.16
1892027	Soil	4	<3	<2	<1	12	10	39	<0.3	12	6	232	2.80	7	7	10	<0.5	<3	<3	58	0.10
1892028	Soil	4	<3	<2	<1	19	11	51	<0.3	20	10	253	2.77	11	14	10	<0.5	<3	<3	47	0.09
1892029	Soil	4	<3	<2	1	11	9	63	<0.3	13	8	375	3.23	7	5	14	<0.5	<3	<3	50	0.11
1892030	Soil	8	<3	<2	<1	20	9	51	<0.3	23	10	254	2.72	11	13	13	<0.5	<3	<3	47	0.13
1892031	Soil	3	<3	<2	1	13	11	51	<0.3	17	9	236	3.33	12	2	8	<0.5	<3	<3	64	0.07
1892032	Soil	3	<3	<2	<1	15	10	44	<0.3	20	10	240	3.16	11	9	11	<0.5	<3	<3	58	0.10
1892033	Soil	4	<3	<2	1	14	9	48	<0.3	16	7	222	3.13	12	11	10	<0.5	<3	<3	50	0.10
1892034	Soil	3	<3	3	<1	7	11	67	<0.3	4	4	395	4.32	5	9	6	<0.5	<3	<3	38	0.05
1892035	Soil	<2	<3	<2	<1	6	7	70	<0.3	6	5	365	3.33	4	7	17	<0.5	<3	<3	40	0.07
1892036	Soil	2	<3	<2	<1	10	9	69	<0.3	10	6	403	3.25	6	4	8	<0.5	<3	<3	40	0.06
1892037	Soil	3	4	<2	<1	8	10	58	<0.3	7	4	405	3.59	4	8	5	<0.5	<3	<3	37	0.09
1892038	Soil	4	3	4	<1	9	8	62	<0.3	8	4	439	2.90	6	6	9	<0.5	<3	<3	40	0.11
1892039	Soil	3	<3	<2	<1	16	7	40	<0.3	16	6	209	2.43	8	10	9	<0.5	<3	<3	36	0.09
1892040	Soil	4	<3	<2	<1	11	7	48	<0.3	14	6	241	2.54	7	3	13	<0.5	<3	<3	39	0.14
1892041	Soil	3	<3	<2	1	14	10	52	<0.3	16	7	242	3.32	11	4	12	<0.5	<3	<3	58	0.12
1892042	Soil	11	<3	<2	1	14	11	51	<0.3	17	7	234	3.42	12	4	11	<0.5	<3	<3	59	0.12
1892043	Soil	<2	<3	<2	<1	13	6	71	<0.3	10	5	393	3.13	3	10	7	<0.5	<3	<3	41	0.10
1892044	Soil	6	<3	<2	<1	13	10	49	<0.3	13	7	286	2.52	5	7	10	<0.5	<3	<3	48	0.12
1892045	Soil	3	<3	<2	<1	15	8	59	<0.3	13	8	389	2.81	4	11	12	<0.5	<3	<3	44	0.14
1892046	Soil	4	<3	<2	1	16	10	53	<0.3	16	8	309	3.25	10	8	13	<0.5	<3	<3	57	0.13

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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Report Date: October 18, 2017

Page: 4 of 12

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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	0.01	2	0.05	1	5	5
1892017	Soil	0.034	13	17	0.37	153	0.066	<20	1.11	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892018	Soil	0.016	24	17	0.45	234	0.072	<20	1.06	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892019	Soil	0.065	19	29	0.51	443	0.072	<20	1.32	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892020	Soil	0.046	21	23	0.45	431	0.065	<20	1.34	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892021	Soil	0.049	23	24	0.45	485	0.064	<20	1.42	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892022	Soil	0.023	54	24	0.66	275	0.098	<20	1.65	<0.01	0.20	<2	<0.05	<1	<5	<5	5
1892023	Soil	0.028	41	28	1.13	235	0.157	<20	2.38	<0.01	0.56	<2	<0.05	<1	<5	6	6
1892024	Soil	0.051	34	26	0.90	277	0.125	<20	2.13	<0.01	0.39	<2	<0.05	<1	<5	6	6
1892025	Soil	0.039	58	29	0.98	267	0.140	<20	2.32	<0.01	0.38	<2	<0.05	<1	<5	<5	8
1892026	Soil	0.038	126	21	0.86	250	0.105	<20	1.79	<0.01	0.34	<2	<0.05	<1	<5	<5	10
1892027	Soil	0.024	16	28	0.54	265	0.097	<20	1.96	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892028	Soil	0.022	21	28	0.57	199	0.072	<20	1.98	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892029	Soil	0.035	17	26	1.03	385	0.170	<20	2.34	<0.01	0.40	<2	<0.05	<1	<5	<5	<5
1892030	Soil	0.023	67	29	0.57	310	0.074	<20	1.83	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892031	Soil	0.032	10	33	0.52	177	0.083	<20	2.23	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892032	Soil	0.039	13	32	0.55	320	0.072	<20	2.21	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892033	Soil	0.028	15	26	0.56	219	0.084	<20	2.36	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892034	Soil	0.046	10	5	1.26	403	0.148	<20	2.10	<0.01	0.80	<2	<0.05	<1	<5	11	7
1892035	Soil	0.032	22	12	1.50	504	0.263	<20	2.29	<0.01	0.78	<2	<0.05	<1	<5	<5	5
1892036	Soil	0.011	27	16	1.57	419	0.178	<20	2.58	<0.01	0.73	<2	<0.05	<1	<5	7	6
1892037	Soil	0.034	11	15	1.56	468	0.270	<20	2.59	<0.01	0.77	<2	<0.05	<1	<5	<5	6
1892038	Soil	0.060	17	18	1.19	699	0.171	<20	2.04	<0.01	0.66	<2	<0.05	<1	<5	<5	<5
1892039	Soil	0.015	22	21	0.66	239	0.107	<20	1.71	<0.01	0.27	<2	<0.05	<1	<5	<5	<5
1892040	Soil	0.035	15	21	0.92	302	0.122	<20	1.83	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
1892041	Soil	0.048	14	28	0.77	380	0.101	<20	2.24	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892042	Soil	0.047	14	29	0.73	369	0.096	<20	2.28	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1892043	Soil	0.024	27	20	1.73	829	0.229	<20	2.39	<0.01	0.94	<2	<0.05	<1	<5	<5	7
1892044	Soil	0.028	22	25	0.80	282	0.129	<20	1.75	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1892045	Soil	0.024	71	25	0.98	360	0.166	<20	1.72	<0.01	0.53	<2	<0.05	<1	<5	<5	5
1892046	Soil	0.026	18	31	0.63	300	0.106	<20	2.10	<0.01	0.14	<2	<0.05	<1	<5	<5	<5



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Page: 5 of 12

Part: 1 of 2

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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
1892047	Soil	3	4	3	<1	11	7	42	<0.3	12	6	206	2.81	7	5	12	<0.5	<3	<3	46	0.13
1892048	Soil	8	<3	<2	<1	15	7	45	<0.3	15	7	227	2.67	7	6	19	<0.5	<3	<3	42	0.23
1892049	Soil	4	<3	<2	<1	11	8	36	<0.3	11	5	178	2.16	6	8	14	<0.5	<3	<3	41	0.15
1892050	Soil	3	5	3	1	8	8	31	<0.3	9	7	344	1.82	6	5	16	<0.5	<3	<3	39	0.18
1892051	Soil	<2	<3	5	<1	3	4	31	<0.3	2	2	198	1.89	3	15	12	<0.5	<3	<3	13	0.04
1892052	Soil	2	4	<2	<1	4	6	38	<0.3	4	3	233	2.26	4	14	13	<0.5	<3	<3	14	0.05
1892053	Soil	<2	<3	3	<1	6	4	33	<0.3	5	3	107	1.61	2	20	14	<0.5	<3	<3	8	0.05
1892054	Soil	4	<3	2	<1	13	8	38	<0.3	12	5	171	2.13	8	18	13	<0.5	<3	<3	30	0.08
1892055	Soil	7	3	<2	<1	23	20	78	<0.3	18	8	461	3.52	2	9	23	<0.5	<3	<3	53	0.27
1892056	Soil	3	<3	<2	<1	13	9	52	<0.3	12	6	235	2.37	5	9	14	<0.5	<3	<3	36	0.15
1892057	Soil	<2	<3	<2	<1	11	5	40	<0.3	8	3	204	2.10	4	11	21	<0.5	<3	<3	24	0.12
1892058	Soil	<2	<3	<2	<1	20	7	42	<0.3	11	5	191	2.18	4	8	14	<0.5	<3	<3	32	0.16
1892059	Soil	2	<3	3	<1	25	7	49	<0.3	12	5	165	2.29	6	3	15	<0.5	<3	<3	36	0.19
1892060	Soil	8	5	4	<1	23	9	53	<0.3	15	5	171	2.32	6	5	19	<0.5	<3	<3	38	0.23
1892061	Soil	5	<3	<2	1	23	7	49	<0.3	13	5	186	2.64	7	5	17	<0.5	<3	<3	40	0.24
1892062	Soil	4	<3	<2	<1	20	8	47	<0.3	16	5	176	2.34	6	4	20	<0.5	<3	<3	38	0.25
1892063	Soil	3	<3	<2	<1	11	6	40	<0.3	9	4	171	2.03	5	8	14	<0.5	<3	<3	32	0.20
1892064	Soil	2	<3	3	<1	16	7	43	<0.3	12	4	165	1.97	5	7	19	<0.5	<3	<3	34	0.27
1892065	Soil	6	<3	<2	<1	12	8	41	<0.3	10	4	147	1.93	5	5	14	<0.5	<3	<3	31	0.20
1892066	Soil	3	<3	<2	<1	13	8	47	<0.3	11	4	153	2.21	6	5	15	<0.5	<3	<3	38	0.20
1892067	Soil	<2	<3	3	<1	8	5	32	<0.3	7	3	134	1.48	3	7	12	<0.5	<3	<3	24	0.21
1892068	Soil	5	<3	<2	<1	15	8	48	<0.3	11	4	122	2.18	6	4	14	<0.5	<3	<3	37	0.18
1892069	Soil	4	<3	<2	<1	13	6	42	<0.3	11	5	163	1.93	6	6	16	<0.5	<3	<3	34	0.22
1892070	Soil	5	<3	4	<1	21	9	46	<0.3	13	4	137	2.30	7	5	13	<0.5	<3	<3	37	0.18
1892071	Soil	3	<3	<2	<1	12	9	45	<0.3	11	5	191	2.31	7	3	16	<0.5	<3	<3	37	0.21
1892072	Soil	3	<3	<2	<1	13	7	42	<0.3	10	4	138	1.88	5	6	15	<0.5	<3	<3	33	0.19
1892073	Soil	3	<3	<2	<1	14	6	40	<0.3	11	4	130	1.81	5	4	15	<0.5	<3	<3	31	0.22
1892074	Soil	3	<3	<2	<1	11	7	40	<0.3	10	4	151	1.91	5	8	12	<0.5	<3	<3	33	0.16
1892075	Soil	2	<3	<2	<1	12	6	43	<0.3	11	4	157	1.97	4	7	13	<0.5	<3	<3	34	0.17
1892076	Soil	2	<3	2	<1	12	6	43	<0.3	11	4	161	1.91	5	7	13	<0.5	<3	<3	32	0.17



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Page: 5 of 12

Part: 2 of 2

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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	
1892047	Soil	0.035	11	23	0.63	289	0.128	<20	1.56	<0.01	0.37	<2	<0.05	<1	<5	<5	
1892048	Soil	0.030	27	24	0.64	405	0.102	<20	1.61	<0.01	0.18	<2	<0.05	<1	<5	<5	
1892049	Soil	0.018	33	21	0.45	338	0.074	<20	1.23	<0.01	0.09	<2	<0.05	<1	<5	<5	
1892050	Soil	0.039	21	18	0.38	381	0.082	<20	1.00	<0.01	0.19	<2	<0.05	<1	<5	<5	
1892051	Soil	0.019	32	4	0.39	202	0.046	<20	0.85	<0.01	0.19	<2	<0.05	<1	<5	<5	
1892052	Soil	0.021	30	7	0.46	239	0.053	<20	1.05	<0.01	0.23	<2	<0.05	<1	<5	<5	
1892053	Soil	0.012	39	7	0.40	223	0.024	<20	1.18	<0.01	0.14	<2	<0.05	<1	<5	<5	
1892054	Soil	0.013	29	18	0.32	243	0.031	<20	1.15	<0.01	0.07	<2	<0.05	<1	<5	<5	
1892055	Soil	0.017	37	63	1.54	1020	0.182	<20	2.55	<0.01	1.25	<2	<0.05	<1	<5	<5	
1892056	Soil	0.028	26	22	0.60	316	0.104	<20	1.50	<0.01	0.29	<2	<0.05	<1	<5	<5	
1892057	Soil	0.034	32	13	0.63	353	0.098	<20	1.14	<0.01	0.44	<2	<0.05	<1	<5	<5	
1892058	Soil	0.035	31	18	0.52	285	0.102	<20	1.26	<0.01	0.27	<2	<0.05	<1	<5	<5	
1892059	Soil	0.047	29	20	0.50	354	0.080	<20	1.41	<0.01	0.16	<2	<0.05	<1	<5	<5	
1892060	Soil	0.050	26	22	0.55	367	0.093	<20	1.47	<0.01	0.17	<2	<0.05	<1	<5	<5	
1892061	Soil	0.067	24	20	0.53	406	0.096	<20	1.21	<0.01	0.23	<2	<0.05	<1	<5	<5	
1892062	Soil	0.047	32	29	0.59	527	0.107	<20	1.52	<0.01	0.22	<2	<0.05	<1	<5	<5	
1892063	Soil	0.047	27	16	0.53	288	0.106	<20	1.26	<0.01	0.25	<2	<0.05	<1	<5	<5	
1892064	Soil	0.045	24	19	0.55	376	0.109	<20	1.19	<0.01	0.24	<2	<0.05	<1	<5	<5	
1892065	Soil	0.049	21	17	0.46	284	0.090	<20	1.27	<0.01	0.16	<2	<0.05	<1	<5	<5	
1892066	Soil	0.054	21	17	0.51	290	0.095	<20	1.42	<0.01	0.16	<2	<0.05	<1	<5	<5	
1892067	Soil	0.055	19	12	0.39	190	0.081	<20	0.88	<0.01	0.15	<2	<0.05	<1	<5	<5	
1892068	Soil	0.053	21	21	0.48	271	0.085	<20	1.49	<0.01	0.15	<2	<0.05	<1	<5	<5	
1892069	Soil	0.050	20	18	0.45	276	0.091	<20	1.11	<0.01	0.14	<2	<0.05	<1	<5	<5	
1892070	Soil	0.055	27	20	0.46	402	0.090	<20	1.56	<0.01	0.15	<2	<0.05	<1	<5	<5	
1892071	Soil	0.056	25	20	0.50	351	0.098	<20	1.33	<0.01	0.20	<2	<0.05	<1	<5	<5	
1892072	Soil	0.047	24	17	0.46	310	0.088	<20	1.22	<0.01	0.16	<2	<0.05	<1	<5	<5	
1892073	Soil	0.050	23	17	0.42	326	0.082	<20	1.15	<0.01	0.14	<2	<0.05	<1	<5	<5	
1892074	Soil	0.042	23	18	0.51	240	0.092	<20	1.23	<0.01	0.20	<2	<0.05	<1	<5	<5	
1892075	Soil	0.044	25	19	0.53	243	0.096	<20	1.26	<0.01	0.21	<2	<0.05	<1	<5	<5	
1892076	Soil	0.040	22	18	0.50	242	0.089	<20	1.18	<0.01	0.20	<2	<0.05	<1	<5	<5	



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Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 6 of 12

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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	
1892077	Soil	4	<3	3	<1	23	7	44	<0.3	10	4	223	1.87	4	3	14	<0.5	<3	<3	27	0.19
1892078	Soil	5	<3	3	<1	18	6	35	<0.3	7	2	94	1.61	5	<2	11	<0.5	<3	<3	24	0.12
1892079	Soil	9	<3	3	<1	12	7	40	<0.3	10	3	93	1.58	5	<2	12	<0.5	<3	<3	25	0.16
1892080	Soil	5	<3	<2	1	37	10	76	<0.3	17	6	229	2.76	6	<2	14	<0.5	<3	<3	45	0.16
1892081	Soil	3	<3	2	1	34	10	68	<0.3	18	5	187	2.50	8	5	13	<0.5	<3	<3	38	0.13
1892082	Soil	3	<3	2	1	28	8	86	<0.3	20	7	282	2.71	7	4	10	<0.5	<3	<3	43	0.09
1892083	Soil	3	<3	<2	2	97	5	122	<0.3	13	10	478	4.72	3	4	9	<0.5	<3	<3	48	0.06
1892084	Soil	4	<3	3	1	30	6	55	<0.3	11	6	228	2.60	4	<2	15	<0.5	<3	<3	41	0.20
1892085	Soil	3	<3	<2	<1	57	8	104	<0.3	11	10	587	3.50	<2	3	15	<0.5	<3	<3	75	0.32
1892086	Soil	<2	<3	<2	1	50	8	109	<0.3	27	21	869	5.05	<2	<2	13	<0.5	<3	<3	95	0.29
1892087	Soil	<2	<3	<2	<1	13	<3	59	<0.3	7	7	901	3.61	9	<2	16	<0.5	<3	<3	50	0.79
1892088	Soil	4	<3	<2	1	24	9	55	<0.3	16	10	378	3.04	9	3	9	<0.5	<3	<3	52	0.10
1892089	Soil	2	<3	<2	<1	19	9	40	<0.3	15	7	271	2.81	7	<2	11	<0.5	<3	<3	54	0.11
1892090	Soil	4	<3	<2	<1	21	4	47	<0.3	11	16	549	4.13	3	3	14	<0.5	<3	<3	115	0.23
1892091	Soil	5	<3	<2	<1	20	7	61	<0.3	18	12	703	3.08	5	<2	12	<0.5	<3	<3	50	0.20
1892092	Soil	5	<3	<2	<1	29	8	50	<0.3	17	8	428	2.61	8	3	12	<0.5	<3	<3	47	0.14
1892093	Soil	5	<3	2	<1	42	10	77	<0.3	14	9	344	3.23	7	2	12	<0.5	<3	<3	64	0.18
1892094	Soil	<2	<3	3	<1	48	6	75	<0.3	19	14	500	3.52	3	<2	6	<0.5	<3	<3	83	0.18
1892095	Soil	3	3	2	<1	46	7	71	<0.3	16	12	442	3.57	5	<2	7	<0.5	<3	<3	87	0.16
1892096	Soil	4	<3	<2	<1	38	6	61	<0.3	14	12	498	3.34	3	<2	8	<0.5	<3	<3	87	0.16
1892097	Soil	<2	<3	2	<1	31	5	69	<0.3	16	14	853	3.75	5	<2	17	<0.5	<3	<3	114	0.29
1892098	Soil	2	<3	<2	<1	13	5	103	<0.3	6	11	718	4.24	4	<2	6	<0.5	<3	<3	86	0.22
1892099	Soil	<2	<3	<2	<1	29	3	88	<0.3	6	14	508	3.97	<2	3	11	<0.5	<3	<3	77	0.42
1892100	Soil	<2	<3	3	<1	18	8	72	<0.3	15	9	524	3.13	4	2	8	<0.5	<3	<3	53	0.10
1892101	Soil	3	<3	<2	<1	18	14	68	<0.3	25	13	344	3.92	10	4	8	<0.5	<3	<3	61	0.08
1892102	Soil	<2	<3	2	<1	30	16	72	<0.3	28	13	315	3.95	11	9	7	<0.5	<3	<3	45	0.07
1892103	Soil	4	<3	<2	1	22	11	66	<0.3	21	13	394	3.93	15	4	12	<0.5	<3	<3	72	0.13
1892104	Soil	4	<3	<2	<1	21	11	71	<0.3	30	13	381	3.77	9	4	10	<0.5	<3	<3	61	0.13
1892105	Soil	<2	<3	<2	1	12	12	47	<0.3	17	7	213	3.31	11	3	13	<0.5	<3	<3	63	0.12
1892106	Soil	<2	<3	<2	2	56	15	84	<0.3	33	13	504	4.74	10	8	6	<0.5	<3	<3	65	0.06



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Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 6 of 12

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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	
1892077	Soil	0.052	22	17	0.41	358	0.069	<20	1.12	<0.01	0.14	<2	<0.05	<1	<5	<5	
1892078	Soil	0.042	15	14	0.31	170	0.045	<20	0.94	<0.01	0.06	<2	<0.05	<1	<5	<5	
1892079	Soil	0.044	11	14	0.31	179	0.036	<20	0.90	<0.01	0.06	<2	<0.05	<1	<5	<5	
1892080	Soil	0.050	20	28	0.72	448	0.106	<20	1.53	<0.01	0.30	<2	<0.05	<1	<5	5	
1892081	Soil	0.051	21	22	0.58	319	0.086	<20	1.45	<0.01	0.19	<2	<0.05	<1	<5	<5	
1892082	Soil	0.029	14	30	0.71	309	0.099	<20	1.48	<0.01	0.30	<2	<0.05	<1	<5	<5	
1892083	Soil	0.057	17	17	0.98	783	0.153	<20	1.67	<0.01	0.85	<2	0.10	<1	<5	11	
1892084	Soil	0.054	12	19	0.61	584	0.080	<20	1.20	<0.01	0.30	<2	<0.05	<1	<5	5	
1892085	Soil	0.064	21	24	1.85	668	0.150	<20	2.88	<0.01	0.91	<2	<0.05	<1	<5	6	
1892086	Soil	0.128	5	71	2.10	534	0.205	<20	3.70	<0.01	1.15	<2	<0.05	<1	<5	6	
1892087	Soil	0.228	5	11	1.22	249	0.113	<20	1.96	<0.01	0.42	<2	<0.05	<1	<5	8	
1892088	Soil	0.029	11	25	0.48	193	0.074	<20	1.66	<0.01	0.12	<2	<0.05	<1	<5	6	
1892089	Soil	0.024	11	31	0.49	201	0.072	<20	1.64	<0.01	0.12	<2	<0.05	<1	<5	5	
1892090	Soil	0.045	15	12	1.38	520	0.223	<20	2.35	<0.01	0.69	<2	<0.05	<1	<5	9	
1892091	Soil	0.049	10	39	0.70	346	0.069	<20	1.68	<0.01	0.21	<2	<0.05	<1	<5	6	
1892092	Soil	0.036	10	24	0.55	251	0.062	<20	1.63	<0.01	0.09	<2	<0.05	<1	<5	<5	
1892093	Soil	0.032	8	27	0.87	243	0.079	<20	1.98	<0.01	0.14	<2	<0.05	<1	<5	<5	
1892094	Soil	0.034	4	36	1.20	233	0.199	<20	2.23	<0.01	0.41	<2	<0.05	<1	<5	<5	
1892095	Soil	0.030	5	29	1.12	219	0.194	<20	2.25	<0.01	0.29	<2	<0.05	<1	<5	<5	
1892096	Soil	0.028	11	38	1.13	229	0.176	<20	2.22	<0.01	0.31	<2	<0.05	<1	<5	6	
1892097	Soil	0.044	3	36	1.02	395	0.176	<20	2.13	<0.01	0.50	<2	<0.05	<1	<5	7	
1892098	Soil	0.093	5	8	1.49	487	0.233	<20	2.74	<0.01	0.94	<2	<0.05	<1	<5	13	
1892099	Soil	0.148	19	7	1.51	715	0.139	<20	2.17	0.01	0.74	<2	<0.05	<1	<5	15	
1892100	Soil	0.019	7	40	0.98	224	0.170	<20	2.42	<0.01	0.41	<2	<0.05	<1	<5	6	
1892101	Soil	0.030	10	45	0.81	165	0.171	<20	2.77	<0.01	0.43	<2	<0.05	<1	<5	<5	
1892102	Soil	0.025	19	35	0.84	136	0.155	<20	2.77	<0.01	0.51	<2	<0.05	<1	<5	<5	
1892103	Soil	0.048	11	48	1.03	255	0.143	<20	3.14	<0.01	0.41	<2	<0.05	<1	<5	<5	
1892104	Soil	0.043	16	69	1.12	300	0.189	<20	2.86	<0.01	0.59	<2	<0.05	<1	<5	<5	
1892105	Soil	0.032	11	34	0.54	229	0.098	<20	2.07	<0.01	0.12	<2	<0.05	<1	<5	7	
1892106	Soil	0.057	12	36	0.92	173	0.210	<20	2.64	<0.01	0.59	<2	<0.05	<1	<5	<5	



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Report Date: October 18, 2017

Page: 7 of 12

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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
1892107	Soil	<2	<3	<2	<1	26	13	73	<0.3	27	13	366	4.13	11	4	9	<0.5	<3	<3	61	0.10
1892108	Soil	2	<3	<2	<1	50	13	83	<0.3	36	14	436	4.35	9	9	8	<0.5	<3	<3	60	0.06
1892109	Soil	<2	<3	3	<1	13	10	40	<0.3	11	5	301	2.75	8	7	8	<0.5	<3	<3	48	0.08
1892110	Soil	<2	<3	<2	<1	12	7	31	<0.3	7	3	227	2.02	3	4	8	<0.5	<3	<3	35	0.08
1892111	Soil	<2	<3	2	<1	14	7	31	<0.3	7	2	224	2.03	2	2	8	<0.5	<3	<3	34	0.08
1892112	Soil	3	<3	4	<1	19	9	48	<0.3	19	8	297	2.75	8	8	14	<0.5	<3	<3	46	0.16
1892113	Soil	2	<3	<2	<1	10	7	50	<0.3	15	7	378	2.88	6	7	9	<0.5	<3	<3	46	0.12
1892114	Soil	<2	<3	<2	<1	4	3	51	<0.3	12	5	511	3.72	5	11	7	<0.5	<3	<3	47	0.12
1892115	Soil	3	<3	3	1	10	11	50	<0.3	14	7	273	2.99	10	5	10	<0.5	<3	<3	66	0.10
1892116	Soil	4	<3	3	2	12	13	42	<0.3	13	5	236	3.25	10	8	12	<0.5	<3	<3	65	0.11
1892117	Soil	3	<3	<2	<1	7	5	48	<0.3	8	5	560	2.62	4	7	6	<0.5	<3	<3	39	0.10
1892118	Soil	6	<3	3	<1	14	7	62	<0.3	18	7	401	3.11	6	5	10	<0.5	<3	<3	47	0.12
1892119	Soil	<2	<3	<2	<1	7	4	44	<0.3	11	6	594	2.71	2	7	8	<0.5	<3	<3	35	0.16
1892120	Soil	<2	<3	6	<1	5	3	34	<0.3	5	2	460	2.53	<2	12	6	<0.5	<3	<3	18	0.07
1892121	Soil	5	<3	<2	<1	30	10	79	<0.3	11	6	350	3.28	10	4	9	<0.5	<3	<3	56	0.07
1892122	Soil	3	<3	<2	<1	7	10	127	<0.3	10	7	502	4.05	9	4	8	<0.5	<3	<3	79	0.10
1892123	Soil	<2	<3	2	1	8	6	71	<0.3	9	4	241	2.54	6	10	4	<0.5	<3	<3	27	0.04
1892124	Soil	2	<3	<2	2	9	8	90	<0.3	10	5	395	3.10	7	12	5	<0.5	<3	<3	46	0.04
1892125	Soil	5	<3	2	<1	10	11	36	<0.3	12	5	152	2.53	9	4	10	<0.5	<3	<3	51	0.11
1892126	Soil	7	<3	2	1	12	11	54	0.5	11	7	335	3.17	6	6	9	<0.5	<3	<3	51	0.13
1892127	Soil	5	<3	<2	<1	7	8	26	<0.3	7	3	128	1.98	6	5	10	<0.5	<3	<3	44	0.10
1892128	Soil	3	<3	2	<1	13	9	47	<0.3	12	5	222	2.76	8	8	14	<0.5	<3	<3	60	0.14
1892129	Soil	3	<3	2	<1	13	10	47	<0.3	14	6	206	2.92	9	5	11	<0.5	<3	<3	52	0.11
1892130	Soil	3	<3	2	<1	12	8	58	<0.3	13	8	372	3.20	6	9	15	<0.5	<3	<3	57	0.21
1892131	Soil	3	<3	<2	<1	11	8	59	<0.3	12	8	412	3.25	5	8	14	<0.5	<3	<3	56	0.22
1892132	Soil	3	<3	2	1	12	9	67	<0.3	12	5	305	2.81	6	10	11	<0.5	<3	<3	42	0.13
1892133	Soil	2	<3	<2	<1	10	10	54	<0.3	9	5	305	2.50	5	7	9	<0.5	<3	<3	44	0.12
1892134	Soil	4	<3	<2	<1	18	11	63	<0.3	16	8	329	3.13	10	12	12	<0.5	<3	<3	56	0.11
1892135	Soil	4	<3	<2	2	16	12	65	<0.3	15	7	281	3.20	9	9	13	<0.5	<3	<3	56	0.16
1892136	Soil	4	<3	<2	2	14	14	75	<0.3	13	5	301	3.15	7	9	11	<0.5	<3	<3	55	0.11



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Whitehorse Yukon Y1A 5Y9 Canada

Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 7 of 12

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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	0.05	1	5	5	5	
1892107	Soil	0.035	12	47	1.05	222	0.180	<20	3.15	<0.01	0.61	<2	<0.05	<1	<5	6	<5
1892108	Soil	0.023	35	38	0.84	163	0.184	<20	2.84	<0.01	0.60	<2	<0.05	<1	<5	<5	<5
1892109	Soil	0.022	15	23	0.51	154	0.100	<20	1.59	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
1892110	Soil	0.067	12	18	0.57	265	0.136	<20	1.26	<0.01	0.37	<2	<0.05	<1	<5	6	<5
1892111	Soil	0.073	12	20	0.56	263	0.131	<20	1.27	<0.01	0.36	<2	<0.05	<1	<5	<5	<5
1892112	Soil	0.041	23	27	0.63	232	0.090	<20	1.82	<0.01	0.11	<2	<0.05	<1	<5	<5	5
1892113	Soil	0.032	20	23	0.88	320	0.157	<20	1.88	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1892114	Soil	0.019	16	29	1.13	551	0.165	<20	2.67	<0.01	0.48	<2	<0.05	<1	<5	9	8
1892115	Soil	0.028	13	29	0.47	233	0.083	<20	1.91	<0.01	0.06	<2	<0.05	<1	<5	5	<5
1892116	Soil	0.036	18	26	0.51	338	0.094	<20	1.85	<0.01	0.13	<2	<0.05	<1	<5	6	<5
1892117	Soil	0.050	19	17	0.81	255	0.149	<20	1.45	<0.01	0.41	<2	<0.05	<1	<5	5	<5
1892118	Soil	0.034	25	24	1.01	356	0.170	<20	2.22	<0.01	0.40	<2	<0.05	<1	<5	6	6
1892119	Soil	0.045	28	21	0.98	297	0.159	<20	1.78	<0.01	0.52	<2	<0.05	<1	<5	<5	5
1892120	Soil	0.010	13	9	0.91	188	0.081	<20	1.83	<0.01	0.58	<2	<0.05	<1	<5	6	<5
1892121	Soil	0.040	11	27	0.68	294	0.084	<20	2.16	<0.01	0.29	<2	<0.05	<1	<5	7	<5
1892122	Soil	0.061	13	27	0.69	430	0.137	<20	1.99	<0.01	0.29	<2	<0.05	<1	<5	7	5
1892123	Soil	0.020	10	14	0.68	198	0.081	<20	1.70	<0.01	0.20	<2	<0.05	<1	<5	6	<5
1892124	Soil	0.022	16	15	0.90	266	0.146	<20	1.92	<0.01	0.39	<2	<0.05	<1	<5	<5	<5
1892125	Soil	0.046	15	22	0.38	228	0.065	<20	1.41	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892126	Soil	0.046	17	21	0.76	242	0.115	<20	1.80	<0.01	0.34	<2	<0.05	<1	<5	6	<5
1892127	Soil	0.035	15	16	0.28	173	0.083	<20	1.07	<0.01	0.06	<2	<0.05	<1	<5	5	<5
1892128	Soil	0.025	26	29	0.64	192	0.119	<20	1.70	<0.01	0.11	<2	<0.05	<1	<5	6	5
1892129	Soil	0.030	15	26	0.53	190	0.085	<20	1.82	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892130	Soil	0.063	34	25	0.97	380	0.161	<20	2.04	<0.01	0.63	<2	<0.05	<1	<5	6	6
1892131	Soil	0.069	37	24	1.07	402	0.174	<20	2.08	<0.01	0.75	<2	<0.05	<1	<5	<5	6
1892132	Soil	0.035	51	21	0.79	330	0.127	<20	1.80	<0.01	0.36	<2	<0.05	<1	<5	<5	<5
1892133	Soil	0.050	33	21	0.65	287	0.126	<20	1.54	<0.01	0.31	<2	<0.05	<1	<5	6	<5
1892134	Soil	0.023	25	27	0.64	269	0.109	<20	2.02	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892135	Soil	0.027	29	26	0.67	292	0.111	<20	1.94	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892136	Soil	0.036	31	21	0.95	287	0.143	<20	1.97	<0.01	0.25	<2	<0.05	<1	<5	6	<5

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 8 of 12

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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
1892137	Soil		3	<3	<2	1	15	12	80	<0.3	15	6	273	3.16	8	7	12	<0.5	<3	<3	54	0.12
1892138	Soil		5	<3	2	1	36	7	73	<0.3	14	5	159	2.52	5	2	11	<0.5	<3	<3	45	0.14
1892139	Soil		3	<3	<2	<1	15	10	70	<0.3	11	5	232	2.37	5	7	14	<0.5	<3	<3	38	0.21
1892140	Soil		7	<3	<2	<1	17	10	65	<0.3	14	7	257	2.28	7	3	17	<0.5	<3	<3	42	0.25
1892141	Soil		13	<3	<2	<1	18	9	67	<0.3	19	9	363	2.42	9	4	25	<0.5	<3	<3	46	0.42
1892142	Soil		10	<3	3	<1	23	9	70	<0.3	23	9	340	2.34	8	2	35	<0.5	<3	<3	47	0.70
1892143	Soil		5	<3	<2	<1	15	9	57	<0.3	16	7	327	2.21	6	4	26	<0.5	<3	<3	39	0.48
1892144	Soil		4	<3	3	<1	11	8	52	<0.3	12	5	165	1.99	7	4	16	<0.5	<3	<3	34	0.24
1892145	Soil		3	<3	3	<1	9	8	55	<0.3	13	7	235	2.42	5	3	17	<0.5	<3	<3	43	0.26
1892146	Soil		4	<3	2	<1	17	8	58	<0.3	19	8	435	2.23	8	2	35	<0.5	<3	<3	40	0.68
1892147	Soil		4	<3	<2	<1	13	10	62	<0.3	15	6	211	2.17	6	5	19	<0.5	<3	<3	39	0.29
1892148	Soil		3	<3	<2	<1	9	7	47	<0.3	11	4	156	1.88	6	<2	16	<0.5	<3	<3	34	0.25
1892149	Soil		6	<3	<2	<1	18	9	58	<0.3	18	8	238	2.30	7	4	24	<0.5	<3	<3	43	0.36
1892150	Soil		7	<3	2	<1	20	9	72	<0.3	15	8	227	2.37	6	4	17	<0.5	<3	<3	44	0.27
1892151	Soil		6	3	2	<1	20	9	74	<0.3	16	8	232	2.40	6	5	17	<0.5	<3	<3	44	0.27
1892152	Soil		4	<3	<2	<1	13	9	50	<0.3	13	5	154	2.34	7	<2	16	<0.5	<3	<3	38	0.19
1892153	Soil		4	<3	<2	<1	9	8	52	<0.3	11	5	181	1.94	6	3	16	<0.5	<3	<3	37	0.23
1892154	Soil		11	<3	<2	<1	6	7	44	<0.3	9	3	112	1.50	4	2	15	<0.5	<3	<3	28	0.21
1892155	Soil		3	<3	<2	<1	9	8	52	<0.3	11	4	146	1.67	4	4	18	<0.5	<3	<3	32	0.26
1892156	Soil		31	<3	3	<1	12	8	50	<0.3	11	5	152	2.26	8	4	15	<0.5	<3	<3	41	0.17
1892157	Soil		4	<3	4	<1	8	8	47	<0.3	10	4	123	1.78	6	<2	13	<0.5	<3	<3	31	0.15
1892158	Soil		3	<3	<2	<1	9	9	46	<0.3	10	3	123	2.00	6	<2	12	<0.5	<3	<3	33	0.12
1892159	Soil		13	<3	<2	<1	11	9	51	<0.3	12	5	131	2.08	7	<2	17	<0.5	<3	<3	37	0.20
1892160	Soil		7	<3	<2	<1	10	8	55	<0.3	12	5	149	2.13	6	3	17	<0.5	<3	<3	35	0.21
1892161	Soil		6	<3	2	1	13	9	57	<0.3	12	6	175	2.25	6	2	15	<0.5	<3	<3	37	0.20
1892162	Soil		3	<3	<2	<1	9	11	51	<0.3	10	4	216	2.26	5	8	13	<0.5	<3	<3	37	0.16
1892163	Soil		3	<3	<2	<1	10	7	48	<0.3	10	5	194	2.19	5	5	12	<0.5	<3	<3	36	0.15
1892164	Soil		3	<3	<2	<1	13	7	48	<0.3	11	5	239	2.38	5	8	15	<0.5	<3	<3	39	0.18
1892165	Soil		2	<3	<2	<1	9	7	42	<0.3	9	4	186	2.06	5	5	12	<0.5	<3	<3	35	0.16
1892166	Soil		<2	<3	2	6	92	5	45	<0.3	7	5	430	4.90	2	10	9	<0.5	<3	<3	57	0.05



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Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 8 of 12

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	0.01	2	0.05	1	5	5
1892137	Soil	0.031	40	23	0.73	314	0.113	<20	1.91	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892138	Soil	0.045	15	28	0.60	364	0.074	<20	1.31	<0.01	0.18	<2	<0.05	<1	<5	<5	5
1892139	Soil	0.053	33	21	0.53	266	0.077	<20	1.24	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892140	Soil	0.059	17	22	0.45	284	0.054	<20	1.22	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892141	Soil	0.070	18	24	0.49	371	0.056	<20	1.21	0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892142	Soil	0.078	14	25	0.57	398	0.058	<20	1.15	0.02	0.07	<2	<0.05	<1	<5	<5	<5
1892143	Soil	0.070	16	20	0.44	332	0.061	<20	1.06	0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892144	Soil	0.067	17	18	0.40	222	0.055	<20	1.10	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892145	Soil	0.063	21	21	0.49	305	0.055	<20	1.23	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892146	Soil	0.075	13	23	0.49	366	0.047	<20	1.09	0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892147	Soil	0.063	18	22	0.52	288	0.062	<20	1.29	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892148	Soil	0.062	14	19	0.43	214	0.050	<20	1.12	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1892149	Soil	0.076	16	22	0.46	316	0.054	<20	1.23	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1892150	Soil	0.072	18	22	0.56	337	0.073	<20	1.34	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892151	Soil	0.071	18	23	0.56	329	0.072	<20	1.40	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892152	Soil	0.056	18	19	0.40	294	0.042	<20	1.23	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1892153	Soil	0.062	20	17	0.44	262	0.056	<20	1.18	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892154	Soil	0.057	19	15	0.39	179	0.052	<20	1.01	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892155	Soil	0.057	23	18	0.47	339	0.062	<20	1.19	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892156	Soil	0.050	22	19	0.43	286	0.070	<20	1.22	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892157	Soil	0.045	21	19	0.42	241	0.066	<20	1.20	<0.01	0.09	<2	<0.05	<1	<5	6	<5
1892158	Soil	0.042	22	20	0.47	216	0.073	<20	1.35	<0.01	0.10	<2	<0.05	<1	<5	6	<5
1892159	Soil	0.057	19	20	0.44	262	0.066	<20	1.25	<0.01	0.10	<2	<0.05	<1	<5	6	<5
1892160	Soil	0.063	23	20	0.51	275	0.083	<20	1.39	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892161	Soil	0.060	26	20	0.52	274	0.089	<20	1.41	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892162	Soil	0.043	27	18	0.69	272	0.125	<20	1.47	<0.01	0.28	<2	<0.05	<1	<5	<5	<5
1892163	Soil	0.048	25	19	0.58	233	0.107	<20	1.35	<0.01	0.24	<2	<0.05	<1	<5	<5	<5
1892164	Soil	0.047	34	22	0.65	368	0.127	<20	1.51	<0.01	0.33	<2	<0.05	<1	<5	<5	<5
1892165	Soil	0.045	25	17	0.59	309	0.109	<20	1.27	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
1892166	Soil	0.068	35	10	1.10	591	0.263	<20	2.35	<0.01	1.21	<2	0.26	<1	<5	7	7



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Page: 9 of 12

Part: 1 of 2

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
1892167	Soil	4	<3	<2	1	48	6	39	<0.3	9	4	215	2.70	6	6	8	<0.5	<3	<3	36	0.07
1892168	Soil	3	<3	<2	2	39	10	40	<0.3	11	4	182	2.64	7	<2	9	<0.5	<3	<3	45	0.07
1892169	Soil	4	<3	<2	<1	31	7	52	<0.3	15	6	226	2.52	6	2	15	<0.5	<3	<3	42	0.17
1892170	Soil	3	<3	3	<1	70	7	128	<0.3	18	7	262	3.00	4	<2	11	<0.5	<3	<3	75	0.17
1892171	Soil	3	<3	<2	<1	70	6	132	<0.3	18	7	262	3.09	4	<2	10	<0.5	<3	<3	76	0.16
1892172	Soil	3	<3	<2	<1	33	7	78	<0.3	22	7	279	2.74	5	<2	8	<0.5	<3	<3	56	0.10
1892173	Soil	3	<3	4	1	82	6	138	<0.3	25	10	352	3.50	3	<2	15	<0.5	<3	<3	77	0.19
1892174	Soil	4	<3	3	5	244	6	239	<0.3	17	11	678	8.10	5	<2	12	1.0	<3	<3	107	0.19
1892175	Soil	5	<3	2	1	42	8	84	<0.3	16	8	293	3.30	5	<2	11	<0.5	<3	<3	64	0.14
1892176	Soil	5	<3	2	1	32	7	64	<0.3	16	7	267	2.53	4	<2	8	<0.5	<3	<3	60	0.11
1892177	Soil	4	<3	2	1	57	8	64	<0.3	25	7	219	2.72	5	<2	11	<0.5	<3	<3	61	0.12
1892178	Soil	3	<3	3	1	45	11	86	<0.3	17	11	325	2.90	5	2	11	<0.5	<3	<3	67	0.14
1892179	Soil	3	<3	<2	<1	50	8	68	<0.3	16	7	295	3.07	4	<2	10	<0.5	<3	<3	82	0.10
1892180	Soil	2	<3	2	<1	62	6	91	<0.3	78	22	571	3.89	<2	2	12	<0.5	<3	<3	91	0.21
1892181	Soil	2	<3	3	1	109	7	85	<0.3	46	16	596	3.37	3	<2	11	<0.5	<3	<3	43	0.14
1892182	Soil	4	<3	<2	<1	17	8	50	<0.3	17	5	226	2.62	7	<2	15	<0.5	<3	<3	59	0.14
1892183	Soil	4	<3	<2	1	58	7	45	<0.3	20	12	455	3.47	9	<2	9	<0.5	<3	<3	50	0.10
1892184	Soil	5	<3	<2	<1	49	6	52	<0.3	12	10	423	3.50	5	<2	9	<0.5	<3	<3	82	0.13
1892185	Soil	3	<3	<2	<1	29	7	44	<0.3	13	11	364	3.30	7	<2	7	<0.5	<3	<3	80	0.12
1892186	Soil	4	<3	<2	<1	14	11	44	<0.3	12	6	258	3.22	9	<2	8	<0.5	<3	<3	71	0.07
1892187	Soil	4	<3	<2	<1	16	5	44	<0.3	10	9	539	3.61	4	<2	11	<0.5	<3	<3	82	0.23
1892188	Soil	3	<3	<2	<1	10	9	111	<0.3	45	8	274	2.41	4	<2	11	<0.5	<3	<3	50	0.27
1892189	Soil	2	<3	2	<1	10	6	84	<0.3	19	8	423	2.85	5	<2	11	<0.5	<3	<3	53	0.21
1892190	Soil	3	<3	<2	<1	15	9	73	<0.3	21	8	319	3.60	9	<2	8	<0.5	<3	<3	67	0.11
1892191	Soil	3	<3	<2	<1	16	10	75	<0.3	21	8	336	3.79	9	3	8	<0.5	<3	<3	70	0.12
1892192	Soil	4	<3	<2	<1	19	6	72	<0.3	23	11	435	2.77	6	2	13	<0.5	<3	<3	53	0.26
1892193	Soil	<2	<3	<2	<1	8	6	60	<0.3	12	5	325	2.53	4	<2	7	<0.5	<3	<3	53	0.10
1892194	Soil	3	<3	<2	<1	16	7	70	<0.3	21	9	313	2.99	7	2	9	<0.5	<3	<3	52	0.15
1892195	Soil	3	<3	<2	<1	12	9	49	<0.3	16	6	210	2.76	8	<2	9	<0.5	<3	<3	59	0.10
1892196	Soil	2	<3	<2	<1	21	6	82	<0.3	27	8	375	2.55	3	<2	16	<0.5	<3	<3	46	0.35



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Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 9 of 12

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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	0.01	2	0.05	1	5	5
1892167	Soil	0.028	19	19	0.55	171	0.103	<20	1.38	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
1892168	Soil	0.085	16	21	0.44	226	0.097	<20	1.63	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892169	Soil	0.045	21	22	0.55	344	0.081	<20	1.43	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892170	Soil	0.034	9	30	1.00	572	0.132	<20	1.86	0.01	0.28	<2	<0.05	<1	<5	5	5
1892171	Soil	0.034	9	30	1.03	575	0.135	<20	1.92	0.01	0.28	<2	<0.05	<1	<5	5	5
1892172	Soil	0.029	8	44	0.75	198	0.093	<20	1.56	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892173	Soil	0.036	13	48	1.10	765	0.101	<20	1.78	<0.01	0.33	<2	<0.05	<1	<5	<5	8
1892174	Soil	0.089	11	19	1.34	1950	0.171	<20	1.96	<0.01	1.01	<2	<0.05	<1	<5	6	20
1892175	Soil	0.057	11	37	0.72	350	0.077	<20	1.48	<0.01	0.11	<2	<0.05	<1	<5	<5	7
1892176	Soil	0.040	7	40	0.76	311	0.110	<20	1.40	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892177	Soil	0.048	7	62	0.84	413	0.095	<20	1.52	0.01	0.22	<2	0.09	<1	<5	<5	<5
1892178	Soil	0.040	11	29	0.88	363	0.100	<20	1.79	<0.01	0.19	<2	<0.05	<1	<5	<5	6
1892179	Soil	0.050	9	27	1.04	525	0.125	<20	1.97	0.01	0.33	<2	0.07	<1	<5	<5	5
1892180	Soil	0.031	16	202	1.31	451	0.120	<20	2.15	<0.01	0.36	<2	<0.05	<1	<5	<5	11
1892181	Soil	0.041	8	59	0.78	300	0.074	<20	1.41	0.02	0.25	<2	0.08	<1	<5	<5	7
1892182	Soil	0.031	12	55	0.82	298	0.080	<20	1.61	<0.01	0.11	<2	<0.05	<1	<5	<5	6
1892183	Soil	0.027	9	25	0.78	197	0.095	<20	2.27	<0.01	0.26	<2	<0.05	<1	<5	5	6
1892184	Soil	0.029	17	17	0.90	395	0.149	<20	2.04	<0.01	0.37	<2	<0.05	<1	<5	<5	6
1892185	Soil	0.028	7	20	0.68	177	0.128	<20	2.12	<0.01	0.23	<2	<0.05	<1	<5	<5	6
1892186	Soil	0.031	11	29	0.53	181	0.101	<20	2.02	<0.01	0.20	<2	<0.05	<1	<5	<5	6
1892187	Soil	0.075	13	11	1.03	270	0.150	<20	2.28	<0.01	0.45	<2	<0.05	<1	<5	6	11
1892188	Soil	0.047	9	101	1.17	392	0.128	<20	1.75	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892189	Soil	0.038	10	91	1.25	486	0.157	<20	2.23	<0.01	0.39	<2	<0.05	<1	<5	<5	<5
1892190	Soil	0.030	8	76	0.97	275	0.132	<20	2.22	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892191	Soil	0.032	8	78	0.99	291	0.140	<20	2.33	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892192	Soil	0.073	21	49	1.02	413	0.141	<20	2.09	<0.01	0.41	<2	<0.05	<1	<5	<5	<5
1892193	Soil	0.049	4	48	0.83	437	0.167	<20	1.77	<0.01	0.25	<2	<0.05	<1	<5	6	<5
1892194	Soil	0.040	9	44	0.86	259	0.127	<20	2.01	<0.01	0.23	<2	<0.05	<1	<5	<5	<5
1892195	Soil	0.025	10	43	0.61	261	0.096	<20	1.83	<0.01	0.10	<2	<0.05	<1	<5	6	<5
1892196	Soil	0.088	11	59	1.05	568	0.164	<20	1.98	<0.01	0.43	<2	<0.05	<1	<5	<5	<5



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Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 10 of 12

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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	
1892197	Soil	<2	<3	<2	<1	13	3	94	<0.3	21	9	497	2.68	2	2	9	<0.5	<3	<3	54	0.31
1892198	Soil	3	<3	<2	<1	16	8	59	<0.3	18	8	314	2.75	6	3	16	<0.5	<3	<3	50	0.35
1892199	Soil	<2	<3	<2	<1	10	7	67	<0.3	14	6	312	2.67	4	<2	9	<0.5	<3	<3	58	0.17
1892200	Soil	2	<3	<2	<1	11	6	79	<0.3	21	9	455	3.00	2	3	11	<0.5	<3	<3	55	0.34
1892227	Soil	5	<3	<2	<1	24	11	55	<0.3	19	8	367	2.31	6	<2	24	<0.5	<3	<3	47	0.34
1892228	Soil	5	<3	2	1	27	12	66	<0.3	20	9	359	3.10	9	<2	19	<0.5	<3	<3	63	0.26
1892229	Soil	10	<3	<2	<1	21	11	57	<0.3	18	11	451	2.58	7	2	13	<0.5	<3	<3	57	0.18
1892230	Soil	4	<3	<2	<1	17	11	60	<0.3	17	11	647	2.85	14	<2	17	<0.5	5	<3	67	0.07
1892231	Soil	6	<3	<2	<1	15	11	58	<0.3	17	9	383	2.80	7	<2	16	<0.5	<3	<3	60	0.33
1892232	Soil	6	<3	<2	<1	26	10	97	<0.3	21	12	501	3.95	4	6	16	<0.5	<3	<3	88	0.52
1892233	Soil	2	<3	<2	<1	16	9	91	<0.3	19	11	464	3.62	8	3	11	<0.5	<3	<3	73	0.27
1892234	Soil	3	<3	<2	<1	17	12	89	<0.3	18	10	437	3.38	4	7	11	<0.5	<3	<3	65	0.23
1892235	Soil	4	4	<2	<1	20	11	65	<0.3	19	9	305	2.80	6	6	15	<0.5	<3	<3	57	0.21
1892236	Soil	4	<3	<2	<1	19	8	71	<0.3	17	11	386	2.96	4	6	15	<0.5	<3	<3	59	0.28
1892237	Soil	7	<3	<2	<1	31	11	100	<0.3	19	24	746	4.65	3	6	24	<0.5	<3	<3	101	0.40
1892238	Soil	4	<3	<2	<1	29	11	81	<0.3	19	10	521	3.23	6	6	14	<0.5	<3	<3	53	0.17
1892239	Soil	4	<3	<2	1	12	13	60	<0.3	12	5	224	2.39	6	4	10	<0.5	<3	<3	37	0.10
1892240	Soil	3	<3	<2	<1	14	12	22	<0.3	6	3	179	1.65	4	<2	10	<0.5	<3	<3	37	0.09
1892241	Soil	3	<3	<2	<1	6	10	16	<0.3	4	2	68	1.18	4	<2	10	<0.5	<3	<3	36	0.09
1892242	Soil	6	<3	<2	<1	24	12	53	<0.3	20	9	293	3.00	12	6	11	<0.5	<3	<3	56	0.10
1892243	Soil	4	<3	<2	<1	22	12	57	<0.3	20	10	401	2.78	10	7	12	<0.5	<3	<3	54	0.14
1892244	Soil	2	<3	<2	<1	23	10	80	<0.3	24	15	438	3.63	6	3	13	<0.5	<3	<3	75	0.26
1892245	Soil	3	<3	<2	<1	20	8	76	<0.3	21	12	497	3.62	6	2	10	<0.5	<3	<3	80	0.18
1892246	Soil	<2	<3	<2	<1	13	6	66	<0.3	14	9	470	2.65	3	<2	9	<0.5	<3	<3	69	0.19
1892247	Soil	3	4	<2	<1	20	9	59	<0.3	22	12	343	3.10	9	4	10	<0.5	<3	<3	72	0.14
1892248	Soil	2	<3	<2	<1	21	6	72	<0.3	28	14	408	3.27	4	<2	11	<0.5	<3	<3	76	0.22
1892251	Soil	8	<3	<2	<1	14	7	51	<0.3	14	8	329	2.48	6	8	11	<0.5	<3	<3	40	0.15
1892252	Soil	2	<3	<2	<1	12	12	44	<0.3	11	4	289	2.25	3	14	13	<0.5	<3	<3	24	0.18
1892253	Soil	2	<3	<2	<1	10	11	47	<0.3	12	6	244	2.60	5	7	11	<0.5	<3	<3	38	0.16
1892254	Soil	4	<3	<2	<1	16	11	46	<0.3	15	7	231	2.87	9	6	11	<0.5	<3	<3	50	0.10



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Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 10 of 12

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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	
1892197	Soil	0.101	6	61	1.64	359	0.160	<20	2.40	<0.01	0.64	<2	<0.05	<1	<5	<5	
1892198	Soil	0.071	15	36	0.69	514	0.077	<20	1.51	<0.01	0.16	<2	<0.05	<1	<5	<5	
1892199	Soil	0.086	5	42	0.93	223	0.161	<20	1.81	<0.01	0.23	<2	<0.05	<1	<5	<5	
1892200	Soil	0.080	10	70	1.22	527	0.161	<20	2.08	<0.01	0.55	<2	<0.05	<1	<5	<5	
1892227	Soil	0.051	16	27	0.42	537	0.069	<20	1.31	<0.01	0.06	<2	<0.05	<1	<5	<5	
1892228	Soil	0.057	16	35	0.46	578	0.061	<20	1.94	<0.01	0.07	<2	<0.05	<1	<5	<5	
1892229	Soil	0.051	10	34	0.42	320	0.065	<20	1.18	<0.01	0.07	<2	<0.05	<1	<5	<5	
1892230	Soil	0.032	7	32	0.23	215	0.046	<20	0.71	<0.01	0.07	<2	<0.05	1	<5	<5	
1892231	Soil	0.054	17	42	0.60	683	0.085	<20	1.55	<0.01	0.08	<2	<0.05	<1	<5	<5	
1892232	Soil	0.115	23	82	1.32	1053	0.187	<20	2.19	<0.01	0.56	<2	<0.05	<1	<5	<5	
1892233	Soil	0.109	7	60	1.17	460	0.155	<20	2.46	<0.01	0.46	<2	<0.05	<1	<5	5	
1892234	Soil	0.056	14	58	1.24	620	0.174	<20	2.21	<0.01	0.51	<2	<0.05	<1	<5	<5	
1892235	Soil	0.031	21	46	0.85	459	0.120	<20	1.81	<0.01	0.13	<2	<0.05	<1	<5	<5	
1892236	Soil	0.043	27	50	1.20	558	0.163	<20	2.08	<0.01	0.44	<2	<0.05	<1	<5	<5	
1892237	Soil	0.060	46	51	1.94	788	0.168	<20	2.75	<0.01	0.73	<2	<0.05	<1	<5	<5	
1892238	Soil	0.021	77	32	0.93	446	0.154	<20	1.98	<0.01	0.30	<2	<0.05	<1	<5	<5	
1892239	Soil	0.026	19	20	0.44	276	0.071	<20	1.37	<0.01	0.13	<2	<0.05	<1	<5	<5	
1892240	Soil	0.076	13	16	0.11	311	0.029	<20	1.06	<0.01	0.05	<2	<0.05	<1	<5	5	
1892241	Soil	0.036	12	13	0.09	267	0.027	<20	0.85	<0.01	0.05	<2	<0.05	<1	<5	5	
1892242	Soil	0.020	22	35	0.49	620	0.060	<20	2.02	<0.01	0.05	<2	<0.05	<1	<5	5	
1892243	Soil	0.032	16	35	0.53	412	0.072	<20	1.87	<0.01	0.07	<2	<0.05	<1	<5	<5	
1892244	Soil	0.060	11	77	1.16	521	0.148	<20	2.46	<0.01	0.37	<2	<0.05	<1	<5	6	
1892245	Soil	0.047	7	61	1.26	237	0.168	<20	2.76	<0.01	0.40	<2	<0.05	<1	<5	8	
1892246	Soil	0.046	4	55	1.27	361	0.228	<20	2.04	<0.01	0.70	<2	<0.05	<1	<5	8	
1892247	Soil	0.032	10	55	1.00	278	0.139	<20	2.10	<0.01	0.26	<2	<0.05	<1	<5	7	
1892248	Soil	0.028	8	90	1.62	681	0.221	<20	2.70	<0.01	0.50	<2	<0.05	<1	<5	5	
1892251	Soil	0.036	21	26	0.69	239	0.119	<20	1.64	<0.01	0.27	<2	<0.05	<1	<5	<5	
1892252	Soil	0.041	75	16	0.68	434	0.100	<20	1.41	<0.01	0.49	<2	<0.05	<1	<5	<5	
1892253	Soil	0.050	29	22	0.64	284	0.134	<20	1.61	<0.01	0.37	<2	<0.05	<1	<5	6	
1892254	Soil	0.020	33	28	0.54	312	0.106	<20	1.89	<0.01	0.13	<2	<0.05	<1	<5	6	



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Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 11 of 12

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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	
1892255	Soil	3	<3	<2	<1	11	9	44	<0.3	11	6	297	2.29	5	7	10	<0.5	<3	<3	34	0.13
1892256	Soil	3	<3	<2	<1	10	10	48	<0.3	9	5	250	2.33	5	8	9	<0.5	<3	<3	32	0.11
1892257	Soil	4	<3	<2	<1	10	10	52	<0.3	10	6	292	2.48	5	9	10	<0.5	<3	<3	35	0.12
1892258	Soil	5	4	<2	<1	9	10	46	<0.3	10	5	247	2.19	5	8	9	<0.5	<3	<3	33	0.10
1892259	Soil	8	<3	<2	<1	25	6	46	<0.3	10	4	162	2.02	6	3	12	<0.5	<3	<3	34	0.16
1892260	Soil	7	<3	<2	<1	10	7	31	<0.3	6	2	74	1.48	3	<2	10	<0.5	<3	<3	18	0.12
1892261	Soil	9	<3	<2	<1	9	7	31	<0.3	7	2	75	1.43	4	<2	10	<0.5	<3	<3	18	0.11
1892262	Soil	9	<3	<2	1	19	11	53	<0.3	12	5	153	2.36	8	<2	14	<0.5	<3	<3	37	0.16
1892263	Soil	6	<3	<2	2	34	11	69	<0.3	15	5	200	2.60	7	5	14	<0.5	<3	<3	40	0.12
1892264	Soil	4	3	2	2	31	9	84	<0.3	18	8	283	2.86	9	6	12	<0.5	<3	<3	43	0.10
1892265	Soil	3	<3	<2	1	33	9	59	<0.3	14	6	235	3.15	8	<2	12	<0.5	<3	<3	58	0.12
1892266	Soil	8	4	3	2	88	7	109	0.5	14	9	416	4.55	4	<2	15	<0.5	<3	<3	72	0.17
1892267	Soil	5	3	2	<1	26	7	55	<0.3	11	5	158	2.31	4	<2	13	<0.5	<3	<3	46	0.16
1892286	Soil	7	<3	<2	2	43	18	77	<0.3	30	12	465	3.12	29	3	18	<0.5	<3	<3	58	0.14
1892287	Soil	4	3	2	1	26	16	59	<0.3	19	8	251	2.84	18	3	12	<0.5	<3	<3	60	0.10
1892288	Soil	6	<3	<2	1	37	20	60	<0.3	24	10	285	2.60	24	3	14	<0.5	<3	<3	49	0.10
1892289	Soil	8	<3	<2	1	29	13	61	<0.3	24	12	366	2.84	16	5	14	<0.5	<3	<3	55	0.11
1892290	Soil	5	3	<2	<1	26	14	49	<0.3	22	8	261	2.94	13	6	12	<0.5	<3	<3	59	0.11
1892291	Soil	6	<3	<2	<1	29	13	52	<0.3	22	9	283	2.90	11	8	12	<0.5	<3	<3	57	0.10
1892292	Soil	2	<3	<2	<1	12	21	78	<0.3	14	7	528	2.71	8	12	11	<0.5	<3	<3	38	0.14
1892293	Soil	2	<3	<2	<1	9	13	78	<0.3	15	8	934	3.32	10	14	13	<0.5	<3	<3	50	0.16
1892294	Soil	3	<3	<2	<1	14	14	66	<0.3	17	8	272	3.03	14	10	10	<0.5	<3	<3	48	0.09
1892295	Soil	4	<3	<2	<1	10	14	40	<0.3	10	5	223	2.65	9	5	10	<0.5	<3	<3	54	0.10
1892296	Soil	2	<3	<2	<1	19	9	64	<0.3	35	14	378	3.88	7	5	16	<0.5	<3	<3	78	0.33
1892297	Soil	5	<3	2	<1	18	10	55	<0.3	19	9	343	2.93	10	5	14	<0.5	<3	<3	50	0.17
1892298	Soil	2	<3	<2	<1	16	15	128	<0.3	21	13	507	4.68	8	8	12	<0.5	<3	<3	70	0.19
1892299	Soil	3	<3	<2	<1	14	13	59	<0.3	17	10	408	3.74	8	6	13	<0.5	<3	<3	79	0.16
1892300	Soil	4	<3	<2	<1	13	12	59	<0.3	17	10	378	3.49	8	6	13	<0.5	<3	<3	73	0.15
1892301	Soil	4	<3	<2	<1	18	8	64	<0.3	66	10	305	2.83	8	3	20	<0.5	<3	<3	48	0.32
1892302	Soil	3	<3	<2	<1	25	6	64	<0.3	477	30	511	3.56	4	4	18	<0.5	<3	<3	50	0.46



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Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 11 of 12

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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	
1892255	Soil	0.030	31	19	0.53	284	0.118	<20	1.37	<0.01	0.25	<2	<0.05	<1	<5	<5	
1892256	Soil	0.045	39	15	0.49	335	0.123	<20	1.45	<0.01	0.32	<2	<0.05	<1	<5	6	<5
1892257	Soil	0.034	30	18	0.59	295	0.114	<20	1.57	<0.01	0.28	<2	<0.05	<1	<5	<5	<5
1892258	Soil	0.031	26	17	0.53	297	0.093	<20	1.35	<0.01	0.18	<2	<0.05	<1	<5	5	<5
1892259	Soil	0.049	24	17	0.44	261	0.072	<20	1.12	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892260	Soil	0.038	11	13	0.27	146	0.036	<20	0.79	<0.01	0.06	<2	0.06	<1	<5	<5	<5
1892261	Soil	0.036	11	13	0.27	137	0.036	<20	0.78	<0.01	0.06	<2	0.06	<1	<5	<5	<5
1892262	Soil	0.058	13	20	0.41	207	0.042	<20	1.22	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892263	Soil	0.047	21	23	0.54	255	0.085	<20	1.45	<0.01	0.18	<2	0.08	<1	<5	<5	<5
1892264	Soil	0.033	17	23	0.60	314	0.086	<20	1.54	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
1892265	Soil	0.039	14	28	0.62	320	0.095	<20	1.75	<0.01	0.19	<2	<0.05	<1	<5	7	5
1892266	Soil	0.064	14	25	1.35	855	0.172	<20	2.30	0.01	0.87	<2	0.18	<1	<5	7	10
1892267	Soil	0.044	13	20	0.62	284	0.074	<20	1.31	<0.01	0.17	<2	<0.05	<1	<5	6	<5
1892286	Soil	0.039	19	54	0.57	459	0.061	<20	1.84	<0.01	0.07	<2	<0.05	<1	<5	<5	5
1892287	Soil	0.023	18	31	0.45	301	0.048	<20	1.79	<0.01	0.05	<2	<0.05	<1	<5	6	<5
1892288	Soil	0.029	21	28	0.44	279	0.044	<20	1.55	<0.01	0.04	<2	<0.05	<1	<5	5	5
1892289	Soil	0.016	16	31	0.51	354	0.054	<20	1.86	<0.01	0.04	<2	<0.05	<1	<5	6	6
1892290	Soil	0.016	16	33	0.46	364	0.066	<20	2.29	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
1892291	Soil	0.016	19	31	0.48	312	0.069	<20	2.13	<0.01	0.05	<2	<0.05	<1	<5	<5	6
1892292	Soil	0.026	61	27	0.39	174	0.062	<20	1.79	<0.01	0.27	<2	<0.05	<1	<5	5	<5
1892293	Soil	0.040	23	24	0.49	305	0.096	<20	2.19	<0.01	0.35	<2	<0.05	<1	<5	8	<5
1892294	Soil	0.020	29	26	0.47	230	0.109	<20	2.11	<0.01	0.26	<2	<0.05	<1	<5	6	<5
1892295	Soil	0.025	12	25	0.43	185	0.079	<20	1.70	<0.01	0.10	<2	<0.05	<1	<5	7	<5
1892296	Soil	0.101	28	90	1.25	494	0.156	<20	2.71	<0.01	0.57	<2	<0.05	<1	<5	9	<5
1892297	Soil	0.048	26	30	0.64	263	0.083	<20	1.85	<0.01	0.14	<2	<0.05	<1	<5	7	<5
1892298	Soil	0.068	48	57	1.56	378	0.209	<20	3.29	<0.01	1.10	<2	<0.05	<1	<5	13	8
1892299	Soil	0.046	18	67	0.93	451	0.116	<20	2.35	<0.01	0.37	<2	<0.05	<1	<5	6	8
1892300	Soil	0.041	20	58	0.92	433	0.118	<20	2.30	<0.01	0.33	<2	<0.05	<1	<5	8	8
1892301	Soil	0.058	15	73	0.59	468	0.066	<20	1.40	<0.01	0.08	<2	<0.05	<1	<5	7	<5
1892302	Soil	0.074	20	311	1.33	556	0.105	<20	1.72	<0.01	0.30	<2	<0.05	<1	<5	7	7



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Report Date: October 18, 2017

Page: 12 of 12

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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
1892303	Soil	4	<3	<2	<1	14	8	62	<0.3	28	10	449	2.87	5	4	18	<0.5	<3	<3	57	0.35
1892304	Soil	<2	<3	<2	<1	16	10	53	<0.3	25	8	272	2.50	5	<2	19	<0.5	<3	<3	55	0.36
1892305	Soil	20	<3	<2	<1	17	8	71	<0.3	24	9	363	2.59	4	4	15	<0.5	<3	<3	53	0.24
1892306	Soil	3	<3	<2	<1	15	7	67	<0.3	21	7	347	2.48	3	3	12	<0.5	<3	<3	49	0.25
1892307	Soil	5	<3	<2	1	21	10	81	<0.3	26	11	464	3.19	7	3	19	<0.5	<3	<3	63	0.26
1892308	Soil	8	3	<2	<1	16	10	63	<0.3	18	11	422	2.59	7	2	14	<0.5	<3	<3	50	0.20
1892401	Soil	4	<3	<2	<1	12	12	62	<0.3	16	7	393	2.96	11	4	11	<0.5	<3	<3	55	0.12
1892402	Soil	2	<3	<2	<1	13	12	60	<0.3	16	10	376	3.50	10	5	12	<0.5	<3	<3	64	0.12
1892403	Soil	3	<3	<2	<1	7	7	46	<0.3	11	7	347	3.14	7	6	9	<0.5	<3	<3	43	0.10
1892404	Soil	<2	<3	<2	<1	10	9	77	<0.3	10	5	287	2.75	3	7	9	<0.5	<3	<3	40	0.12
1892405	Soil	<2	3	<2	<1	7	6	49	<0.3	10	5	316	2.66	5	9	6	<0.5	<3	<3	36	0.07
1892406	Soil	2	<3	<2	2	12	10	63	<0.3	15	7	273	2.86	10	6	12	<0.5	<3	<3	47	0.11
1892407	Soil	5	<3	<2	1	14	12	53	<0.3	17	8	252	3.18	11	5	19	<0.5	<3	<3	50	0.16
1892408	Soil	4	<3	<2	1	6	29	54	<0.3	7	4	228	2.43	5	5	11	<0.5	<3	<3	40	0.13
1892409	Soil	2	<3	<2	1	10	12	62	<0.3	11	5	209	2.76	8	6	8	<0.5	<3	<3	43	0.08
1892410	Soil	<2	<3	<2	<1	9	11	61	<0.3	16	10	387	3.54	5	5	16	<0.5	<3	<3	56	0.22
1892411	Soil	<2	<3	<2	<1	7	5	36	<0.3	16	13	480	4.42	<2	4	16	<0.5	<3	<3	71	0.26
1892412	Soil	<2	<3	<2	<1	7	7	41	<0.3	15	10	710	2.51	3	2	14	<0.5	<3	<3	47	0.20
1892413	Soil	2	3	2	<1	10	8	45	<0.3	16	8	249	2.53	7	3	15	<0.5	<3	<3	46	0.20
1892414	Soil	<2	<3	<2	2	16	11	65	<0.3	11	11	484	4.15	3	8	14	<0.5	<3	<3	77	0.15



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Report Date: October 18, 2017

Page: 12 of 12

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000891.1

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
1892303	Soil	0.058	17	108	1.01	736	0.124	<20	1.87	<0.01	0.38	<2	<0.05	<1	<5	8	6
1892304	Soil	0.049	15	55	0.58	719	0.076	<20	1.53	<0.01	0.11	<2	<0.05	<1	<5	5	6
1892305	Soil	0.055	15	46	0.59	657	0.098	<20	1.38	<0.01	0.16	<2	<0.05	<1	<5	5	7
1892306	Soil	0.072	18	48	0.53	802	0.094	<20	1.16	<0.01	0.22	<2	<0.05	<1	<5	5	8
1892307	Soil	0.058	19	49	0.58	824	0.082	<20	1.90	<0.01	0.09	<2	<0.05	<1	<5	6	8
1892308	Soil	0.056	15	34	0.48	371	0.069	<20	1.54	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892401	Soil	0.048	11	25	0.51	238	0.069	<20	1.78	<0.01	0.12	<2	<0.05	<1	<5	7	<5
1892402	Soil	0.032	11	23	0.88	284	0.143	<20	2.24	<0.01	0.48	<2	<0.05	<1	<5	8	<5
1892403	Soil	0.023	8	25	1.10	229	0.200	<20	2.24	<0.01	0.52	<2	<0.05	<1	<5	8	<5
1892404	Soil	0.045	18	19	1.06	218	0.110	<20	1.80	<0.01	0.17	<2	<0.05	<1	<5	11	<5
1892405	Soil	0.018	23	22	1.63	440	0.190	<20	2.42	<0.01	0.46	<2	<0.05	<1	<5	9	<5
1892406	Soil	0.034	13	24	0.79	370	0.085	<20	1.93	<0.01	0.25	<2	<0.05	<1	<5	6	<5
1892407	Soil	0.035	14	25	0.86	456	0.102	<20	1.91	<0.01	0.30	<2	0.09	<1	<5	7	<5
1892408	Soil	0.047	17	12	0.77	373	0.113	<20	1.37	<0.01	0.24	<2	0.05	<1	<5	7	<5
1892409	Soil	0.027	17	17	0.78	219	0.101	<20	1.65	<0.01	0.14	<2	<0.05	<1	<5	7	<5
1892410	Soil	0.035	10	29	1.27	712	0.199	<20	2.14	<0.01	0.88	<2	<0.05	<1	<5	8	<5
1892411	Soil	0.046	7	44	1.78	779	0.377	<20	2.67	<0.01	1.52	<2	<0.05	<1	<5	13	6
1892412	Soil	0.025	12	26	0.79	726	0.121	<20	1.71	<0.01	0.12	<2	<0.05	<1	<5	7	<5
1892413	Soil	0.018	10	26	0.68	436	0.114	<20	1.39	<0.01	0.27	<2	<0.05	<1	<5	5	<5
1892414	Soil	0.023	15	33	1.79	721	0.281	<20	2.31	<0.01	1.33	<2	0.08	<1	<5	8	7



QUALITY CONTROL REPORT

WHI17000891.1

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 %	
Pulp Duplicates																					
1891942	Soil	<2	<3	<2	<1	12	12	82	<0.3	21	11	336	3.21	11	3	19	<0.5	<3	<3	61	0.20
REP 1891942	QC				<1	12	11	81	<0.3	20	11	335	3.21	12	5	18	<0.5	<3	<3	61	0.20
1891948	Soil	4	<3	<2	<1	27	14	72	<0.3	24	12	312	3.36	13	12	9	<0.5	<3	<3	36	0.09
REP 1891948	QC	5	<3	3																	
1892004	Soil	2	<3	3	<1	21	6	52	<0.3	12	6	252	2.38	6	<2	13	<0.5	<3	<3	59	0.16
REP 1892004	QC				<1	20	6	51	<0.3	12	6	249	2.39	6	2	13	<0.5	<3	<3	59	0.16
1892009	Soil	<2	<3	2	<1	11	6	45	<0.3	11	5	207	2.44	6	5	9	<0.5	<3	<3	47	0.12
REP 1892009	QC	2	<3	<2																	
1892040	Soil	4	<3	<2	<1	11	7	48	<0.3	14	6	241	2.54	7	3	13	<0.5	<3	<3	39	0.14
REP 1892040	QC				<1	11	7	49	<0.3	14	6	241	2.54	8	4	13	<0.5	<3	<3	40	0.13
1892044	Soil	6	<3	<2	<1	13	10	49	<0.3	13	7	286	2.52	5	7	10	<0.5	<3	<3	48	0.12
REP 1892044	QC	<2	5	<2																	
1892076	Soil	2	<3	2	<1	12	6	43	<0.3	11	4	161	1.91	5	7	13	<0.5	<3	<3	32	0.17
REP 1892076	QC				<1	12	6	43	<0.3	11	4	163	1.92	5	7	14	<0.5	<3	<3	32	0.17
1892079	Soil	9	<3	3	<1	12	7	40	<0.3	10	3	93	1.58	5	<2	12	<0.5	<3	<3	25	0.16
REP 1892079	QC	9	<3	6																	
1892112	Soil	3	<3	4	<1	19	9	48	<0.3	19	8	297	2.75	8	8	14	<0.5	<3	<3	46	0.16
REP 1892112	QC				<1	18	9	49	<0.3	19	8	299	2.77	8	8	15	<0.5	<3	<3	46	0.17
1892114	Soil	<2	<3	<2	<1	4	3	51	<0.3	12	5	511	3.72	5	11	7	<0.5	<3	<3	47	0.12
REP 1892114	QC	<2	<3	3																	
1892148	Soil	3	<3	<2	<1	9	7	47	<0.3	11	4	156	1.88	6	<2	16	<0.5	<3	<3	34	0.25
REP 1892148	QC				<1	9	7	48	<0.3	11	4	155	1.86	6	<2	16	<0.5	<3	<3	34	0.24
1892149	Soil	6	<3	<2	<1	18	9	58	<0.3	18	8	238	2.30	7	4	24	<0.5	<3	<3	43	0.36
REP 1892149	QC	7	<3	<2																	
1892184	Soil	5	<3	<2	<1	49	6	52	<0.3	12	10	423	3.50	5	<2	9	<0.5	<3	<3	82	0.13
REP 1892184	QC	5	<3	<2	<1	49	6	51	<0.3	12	10	414	3.43	5	<2	9	<0.5	<3	<3	80	0.13
1892245	Soil	3	<3	<2	<1	20	8	76	<0.3	21	12	497	3.62	6	2	10	<0.5	<3	<3	80	0.18
REP 1892245	QC	5	<3	2																	



QUALITY CONTROL REPORT

WHI17000891.1

Method	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																	
1891942	Soil	0.039	9	39	0.71	198	0.099	<20	2.17	<0.01	0.17	<2	<0.05	<1	<5	5	<5
REP 1891942	QC	0.039	9	38	0.70	197	0.099	<20	2.16	<0.01	0.17	<2	<0.05	<1	<5	6	<5
1891948	Soil	0.018	42	29	0.52	177	0.071	<20	1.77	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
REP 1891948	QC																
1892004	Soil	0.027	12	38	0.68	216	0.115	<20	1.32	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
REP 1892004	QC	0.027	12	37	0.68	216	0.114	<20	1.32	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892009	Soil	0.033	13	29	0.61	174	0.114	<20	1.32	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
REP 1892009	QC																
1892040	Soil	0.035	15	21	0.92	302	0.122	<20	1.83	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
REP 1892040	QC	0.034	16	22	0.93	300	0.120	<20	1.81	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
1892044	Soil	0.028	22	25	0.80	282	0.129	<20	1.75	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
REP 1892044	QC																
1892076	Soil	0.040	22	18	0.50	242	0.089	<20	1.18	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
REP 1892076	QC	0.041	23	18	0.51	246	0.090	<20	1.20	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892079	Soil	0.044	11	14	0.31	179	0.036	<20	0.90	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
REP 1892079	QC																
1892112	Soil	0.041	23	27	0.63	232	0.090	<20	1.82	<0.01	0.11	<2	<0.05	<1	<5	<5	5
REP 1892112	QC	0.042	23	27	0.64	233	0.090	<20	1.84	<0.01	0.11	<2	<0.05	<1	<5	<5	6
1892114	Soil	0.019	16	29	1.13	551	0.165	<20	2.67	<0.01	0.48	<2	<0.05	<1	<5	9	8
REP 1892114	QC																
1892148	Soil	0.062	14	19	0.43	214	0.050	<20	1.12	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
REP 1892148	QC	0.061	14	20	0.43	209	0.048	<20	1.09	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1892149	Soil	0.076	16	22	0.46	316	0.054	<20	1.23	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
REP 1892149	QC																
1892184	Soil	0.029	17	17	0.90	395	0.149	<20	2.04	<0.01	0.37	<2	<0.05	<1	<5	<5	6
REP 1892184	QC	0.029	17	16	0.89	388	0.146	<20	2.00	<0.01	0.37	<2	<0.05	<1	<5	7	6
1892245	Soil	0.047	7	61	1.26	237	0.168	<20	2.76	<0.01	0.40	<2	<0.05	<1	<5	8	<5
REP 1892245	QC																



QUALITY CONTROL REPORT

WHI17000891.1

		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	ppm
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	3	1
1892246	Soil	<2	<3	<2	<1	13	6	66	<0.3	14	9	470	2.65	3	<2	9	<0.5	<3	<3	69	0.19
REP 1892246	QC				<1	13	7	64	<0.3	14	9	456	2.58	3	<2	9	<0.5	<3	<3	68	0.20
1892292	Soil	2	<3	<2	<1	12	21	78	<0.3	14	7	528	2.71	8	12	11	<0.5	<3	<3	38	0.14
REP 1892292	QC				<1	12	20	74	<0.3	14	6	519	2.70	8	14	10	<0.5	<3	<3	38	0.14
1892300	Soil	4	<3	<2	<1	13	12	59	<0.3	17	10	378	3.49	8	6	13	<0.5	<3	<3	73	0.15
REP 1892300	QC	3	4	<2																	
1892301	Soil	4	<3	<2	<1	18	8	64	<0.3	66	10	305	2.83	8	3	20	<0.5	<3	<3	48	0.32
REP 1892301	QC				<1	18	8	62	<0.3	64	11	299	2.76	8	3	20	<0.5	<3	<3	48	0.31
Reference Materials																					
STD CDN-PGMS-19	Standard	204	108	494																	
STD CDN-PGMS-23	Standard	503	502	2291																	
STD CDN-PGMS-19	Standard	228	104	493																	
STD CDN-PGMS-23	Standard	500	494	2230																	
STD CDN-PGMS-19	Standard	227	107	501																	
STD CDN-PGMS-23	Standard	518	493	2258																	
STD CDN-PGMS-19	Standard	250	116	506																	
STD CDN-PGMS-19	Standard	209	112	498																	
STD CDN-PGMS-19	Standard	235	119	530																	
STD CDN-PGMS-23	Standard	488	478	2185																	
STD CDN-PGMS-19	Standard	206	110	487																	
STD CDN-PGMS-19	Standard	224	121	503																	
STD CDN-PGMS-23	Standard	490	479	2188																	
STD CDN-PGMS-19	Standard	194	106	473																	
STD CDN-PGMS-23	Standard	484	438	2071																	
STD CDN-PGMS-19	Standard	239	111	479																	
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 DS11	Standard				12	139	128	322	1.6	74	12	958	2.87	43	4	62	2.1	6	10	46	0.99
STD DS11	Standard				13	143	129	330	1.4	75	12	994	2.97	42	3	64	2.1	5	10	47	1.01
STD DS11	Standard				13	151	141	347	2.0	77	13	1042	3.11	44	5	67	2.3	6	12	49	1.06



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Project: EUK-17029-YT
Report Date: October 18, 2017

Page: 2 of 4

Part: 2 of 2

QUALITY CONTROL REPORT

WHI17000891.1

		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	
		%	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	
1892246	Soil	0.046	4	55	1.27	361	0.228	<20	2.04	<0.01	0.70	<2	<0.05	<1	<5	8	<5
REP 1892246	QC	0.049	4	54	1.23	350	0.223	<20	1.98	<0.01	0.67	<2	<0.05	<1	<5	7	<5
1892292	Soil	0.026	61	27	0.39	174	0.062	<20	1.79	<0.01	0.27	<2	<0.05	<1	<5	5	<5
REP 1892292	QC	0.026	59	27	0.37	167	0.062	<20	1.78	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
1892300	Soil	0.041	20	58	0.92	433	0.118	<20	2.30	<0.01	0.33	<2	<0.05	<1	<5	8	8
REP 1892300	QC																
1892301	Soil	0.058	15	73	0.59	468	0.066	<20	1.40	<0.01	0.08	<2	<0.05	<1	<5	7	<5
REP 1892301	QC	0.058	15	71	0.57	459	0.065	<20	1.36	<0.01	0.08	<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 CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
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	0.068	16	55	0.81	417	0.083	34	1.07	0.07	0.39	3	0.27	<1	5	<5	<5
STD DS11	Standard	0.066	15	55	0.79	406	0.082	<20	1.04	0.07	0.38	3	0.27	<1	<5	<5	<5
STD DS11	Standard	0.068	16	56	0.80	421	0.087	<20	1.08	0.07	0.39	3	0.27	<1	<5	<5	<5
STD DS11	Standard	0.071	17	59	0.84	438	0.090	<20	1.13	0.07	0.41	2	0.29	<1	<5	<5	<5



QUALITY CONTROL REPORT

WHI17000891.1

		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	%
		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	136	342	1.8	78	13	1054	3.09	42	4	66	2.3	6	10	48	1.05
STD DS11	Standard				13	151	134	346	1.6	77	13	1083	3.16	44	4	67	2.3	6	11	49	1.05
STD DS11	Standard				13	145	130	338	1.4	75	12	993	2.96	42	3	63	2.1	6	10	46	1.02
STD DS11	Standard				13	150	138	350	1.5	78	14	1072	3.16	42	7	65	2.1	5	10	50	1.08
STD DS11	Standard				12	142	133	331	1.5	75	12	985	2.93	42	6	60	2.2	7	11	47	1.00
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 OREAS45EA	Standard				1	664	19	27	<0.3	360	49	394	20.68	5	8	4	<0.5	<3	<3	290	0.04
STD OREAS45EA	Standard				2	672	16	28	<0.3	379	52	394	20.61	5	7	4	<0.5	<3	<3	302	0.04
STD OREAS45EA	Standard				2	720	18	30	<0.3	393	53	425	23.32	5	7	4	<0.5	<3	<3	313	0.04
STD OREAS45EA	Standard				1	679	21	30	<0.3	375	51	404	21.56	5	8	4	0.6	<3	<3	302	0.04
STD OREAS45EA	Standard				2	721	19	30	<0.3	393	53	420	22.24	6	7	4	0.7	<3	<3	314	0.04
STD OREAS45EA	Standard				1	678	18	28	<0.3	362	49	399	21.44	5	7	3	<0.5	<3	<3	290	0.04
STD OREAS45EA	Standard				1	687	13	30	<0.3	381	53	411	21.06	5	7	4	<0.5	<3	<3	304	0.04
STD OREAS45EA	Standard				2	701	15	38	0.3	390	54	421	22.47	5	8	4	<0.5	<3	<3	314	0.04
STD OREAS45EA	Standard				1	662	21	29	<0.3	367	50	388	20.15	6	7	3	<0.5	<3	<3	292	0.04
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-23 Expected		496	456	2032																	
STD CDN-PGMS-19 Expected		230	108	476																	
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				<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



QUALITY CONTROL REPORT

WHI17000891.1

		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
STD DS11	Standard	0.072	16	58	0.84	443	0.087	<20	1.13	0.07	0.41	3	0.29	<1	<5	<5	<5
STD DS11	Standard	0.073	17	59	0.84	442	0.091	<20	1.13	0.07	0.41	3	0.29	<1	<5	<5	<5
STD DS11	Standard	0.069	16	55	0.82	416	0.084	<20	1.06	0.07	0.39	3	0.28	<1	<5	<5	<5
STD DS11	Standard	0.073	17	58	0.88	430	0.089	<20	1.13	0.07	0.41	3	0.29	<1	6	<5	<5
STD DS11	Standard	0.068	16	55	0.83	406	0.083	<20	1.05	0.07	0.39	<2	0.27	<1	<5	<5	<5
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 OREAS45EA	Standard	0.028	7	826	0.09	142	0.097	<20	3.13	0.02	0.05	<2	<0.05	<1	<5	17	77
STD OREAS45EA	Standard	0.029	7	873	0.09	147	0.099	<20	3.19	0.02	0.06	<2	<0.05	<1	<5	23	81
STD OREAS45EA	Standard	0.031	7	903	0.10	153	0.102	<20	3.47	0.02	0.06	<2	<0.05	<1	<5	15	86
STD OREAS45EA	Standard	0.030	7	865	0.09	148	0.096	<20	3.20	0.02	0.06	<2	<0.05	<1	<5	19	82
STD OREAS45EA	Standard	0.031	8	901	0.10	151	0.104	<20	3.42	0.02	0.06	<2	<0.05	<1	<5	22	85
STD OREAS45EA	Standard	0.029	7	820	0.09	139	0.098	<20	3.14	0.01	0.05	<2	<0.05	<1	<5	13	78
STD OREAS45EA	Standard	0.030	8	875	0.10	148	0.099	<20	3.28	0.02	0.06	<2	<0.05	<1	<5	23	81
STD OREAS45EA	Standard	0.030	8	898	0.10	150	0.103	<20	3.33	0.02	0.05	<2	<0.05	<1	<5	9	82
STD OREAS45EA	Standard	0.029	7	844	0.09	138	0.097	<20	3.11	0.01	0.05	<2	<0.05	<1	<5	22	78
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-23 Expected																	
STD CDN-PGMS-19 Expected																	
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



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 18, 2017

Page: 4 of 4

Part: 1 of 2

QUALITY CONTROL REPORT

WHI17000891.1

		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				<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	<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	8																	
BLK	Blank	5	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	



Bureau Veritas Commodities Canada Ltd.
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Project: EUK-17029-YT
Report Date: October 18, 2017

Page: 4 of 4

Part: 2 of 2

QUALITY CONTROL REPORT

WHI17000891.1

		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	<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																
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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 19, 2017
Report Date: October 18, 2017
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI17000892.1

CLIENT JOB INFORMATION

Project: EUK-17029-YT
Shipment ID:
P.O. Number: EUK-17029-YT
Number of Samples: 118

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	118	Dry at 60C			WHI
SS80	118	Dry at 60C sieve 100g to -80 mesh			VAN
SVRJT	118	Save all or part of Soil Reject			WHI
FA330	118	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	118	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	118	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	118	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

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

CC: Nigel Bocking



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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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 18, 2017

Page: 2 of 5

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000892.1

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	%	
1892415	Soil		<2	<3	<2	<1	5	4	34	<0.3	9	5	182	2.29	5	5	12	<0.5	<3	3	41	0.13
1892416	Soil		3	<3	<2	<1	7	6	35	<0.3	8	5	259	2.50	6	5	15	<0.5	<3	<3	51	0.15
1892417	Soil		3	<3	<2	<1	22	4	47	0.3	16	27	2531	2.95	4	4	18	<0.5	<3	<3	60	0.19
1892418	Soil		3	<3	<2	<1	15	5	47	<0.3	17	9	277	2.51	9	5	15	<0.5	<3	<3	43	0.14
1892419	Soil		2	<3	2	<1	22	5	50	<0.3	15	6	281	2.73	8	6	17	<0.5	<3	<3	42	0.17
1892420	Soil		2	<3	3	1	16	<3	41	<0.3	16	7	207	2.42	7	6	14	<0.5	<3	<3	40	0.15
1892433	Soil		6	<3	<2	<1	18	9	53	<0.3	21	7	184	3.21	11	11	18	<0.5	<3	<3	46	0.13
1892434	Soil		<2	<3	<2	<1	8	8	75	<0.3	9	7	398	2.61	4	15	30	<0.5	<3	<3	35	0.13
1892435	Soil		3	<3	<2	2	12	16	56	<0.3	18	11	578	2.83	8	10	17	<0.5	<3	6	48	0.19
1892436	Soil		<2	<3	<2	<1	14	5	38	<0.3	13	5	179	1.78	4	7	12	<0.5	<3	<3	29	0.13
1892437	Soil		5	4	<2	1	11	9	51	<0.3	15	7	261	2.37	6	9	17	<0.5	<3	<3	37	0.23
1892438	Soil		11	<3	12	2	38	9	72	<0.3	29	14	481	4.00	9	36	39	<0.5	<3	<3	50	0.52
1892439	Soil		3	<3	<2	1	21	8	47	<0.3	19	7	226	2.32	8	7	21	<0.5	<3	<3	40	0.29
1892440	Soil		4	<3	<2	1	21	6	52	<0.3	19	9	353	2.57	8	5	31	<0.5	<3	<3	45	0.42
1892441	Soil		4	<3	2	1	23	8	53	<0.3	21	9	365	2.65	9	4	32	<0.5	<3	4	47	0.45
1892442	Soil		4	<3	2	1	13	4	47	<0.3	13	7	297	2.31	7	8	24	<0.5	<3	<3	36	0.34
1892443	Soil		4	<3	<2	1	8	5	47	<0.3	10	7	394	2.30	6	8	17	<0.5	<3	3	37	0.25
1892444	Soil		2	<3	<2	1	18	6	68	<0.3	21	8	397	2.26	8	3	28	<0.5	<3	5	38	0.47
1892445	Soil		4	3	6	1	21	7	54	<0.3	19	8	343	1.98	8	<2	38	<0.5	<3	<3	35	0.80
1892446	Soil		6	<3	<2	1	23	11	67	<0.3	21	9	280	2.75	10	5	24	<0.5	<3	<3	48	0.30
1892447	Soil		6	<3	<2	1	24	8	67	<0.3	22	9	331	2.66	9	5	28	<0.5	<3	<3	47	0.37
1892448	Soil		2	<3	<2	<1	16	5	46	<0.3	13	6	239	2.31	6	6	13	<0.5	<3	<3	41	0.16
1892449	Soil		3	<3	<2	<1	19	10	47	<0.3	15	8	254	2.32	7	7	14	<0.5	<3	<3	42	0.18
1892450	Soil		<2	<3	<2	1	27	11	51	<0.3	15	8	345	2.73	7	8	18	<0.5	<3	3	51	0.22
1892467	Soil		3	<3	2	<1	15	6	51	<0.3	14	7	258	2.17	6	15	13	<0.5	<3	<3	35	0.19
1892468	Soil		3	<3	3	<1	27	9	52	<0.3	16	8	229	2.60	7	5	16	<0.5	<3	<3	52	0.23
1892469	Soil		4	<3	3	<1	40	9	58	<0.3	17	9	251	2.60	7	5	18	<0.5	<3	<3	53	0.24
1892470	Soil		4	<3	5	<1	34	5	56	<0.3	22	10	443	2.68	7	6	14	<0.5	<3	<3	50	0.27
1892471	Soil		3	<3	3	<1	32	7	54	<0.3	21	10	466	2.59	6	6	13	<0.5	<3	<3	48	0.27
1892476	Soil		4	<3	4	<1	31	11	66	<0.3	40	14	455	3.43	7	4	13	<0.5	<3	<3	64	0.18

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PHONE (604) 253-3158

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34A Laberge Road
Whitehorse Yukon Y1A 5Y9 Canada

Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 2 of 5

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000892.1

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	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	0.01	2	0.05	1	5	5
1892415	Soil	0.014	9	18	0.52	244	0.079	<20	1.46	<0.01	0.17	<2	<0.05	<1	<5	5	<5
1892416	Soil	0.019	11	14	0.61	394	0.126	<20	1.14	<0.01	0.44	<2	<0.05	<1	<5	6	<5
1892417	Soil	0.027	11	33	0.51	760	0.091	<20	1.51	<0.01	0.20	<2	<0.05	<1	<5	5	<5
1892418	Soil	0.023	15	22	0.62	459	0.082	<20	1.38	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892419	Soil	0.023	17	21	0.85	412	0.127	<20	1.55	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1892420	Soil	0.020	24	23	0.70	373	0.101	<20	1.41	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892433	Soil	0.030	20	28	0.41	461	0.035	<20	2.02	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892434	Soil	0.027	37	35	0.82	397	0.081	<20	1.67	<0.01	0.31	<2	<0.05	<1	<5	<5	<5
1892435	Soil	0.051	49	31	0.46	488	0.067	<20	1.56	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892436	Soil	0.029	22	16	0.29	175	0.049	<20	0.88	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892437	Soil	0.045	27	24	0.46	354	0.082	<20	1.28	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892438	Soil	0.070	180	31	0.54	920	0.070	<20	2.72	<0.01	0.22	<2	<0.05	<1	<5	<5	9
1892439	Soil	0.045	24	27	0.48	364	0.092	<20	1.38	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892440	Soil	0.056	21	27	0.51	426	0.081	<20	1.51	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892441	Soil	0.054	21	27	0.52	465	0.082	<20	1.60	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892442	Soil	0.056	38	21	0.54	447	0.097	<20	1.51	<0.01	0.22	<2	<0.05	<1	<5	<5	<5
1892443	Soil	0.056	35	19	0.56	336	0.101	<20	1.42	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
1892444	Soil	0.079	12	21	0.48	287	0.048	<20	1.03	0.02	0.06	<2	<0.05	<1	<5	<5	<5
1892445	Soil	0.071	10	19	0.45	246	0.045	<20	0.92	0.02	0.06	<2	<0.05	<1	<5	<5	<5
1892446	Soil	0.059	20	29	0.55	418	0.079	<20	1.55	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892447	Soil	0.063	21	29	0.58	429	0.086	<20	1.47	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892448	Soil	0.038	21	24	0.56	200	0.106	<20	1.44	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892449	Soil	0.040	29	22	0.63	211	0.100	<20	1.41	<0.01	0.24	<2	<0.05	<1	<5	<5	<5
1892450	Soil	0.051	33	26	0.76	301	0.118	<20	1.59	<0.01	0.38	<2	<0.05	<1	<5	<5	<5
1892467	Soil	0.041	25	26	0.51	165	0.082	<20	1.32	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892468	Soil	0.043	25	29	0.51	211	0.059	<20	1.51	0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892469	Soil	0.058	35	27	0.56	208	0.067	<20	1.55	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892470	Soil	0.074	28	41	0.66	247	0.127	<20	1.48	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1892471	Soil	0.075	25	38	0.63	238	0.128	<20	1.42	<0.01	0.38	<2	<0.05	<1	<5	<5	<5
1892476	Soil	0.016	22	83	1.05	310	0.114	<20	2.20	<0.01	0.21	<2	<0.05	<1	<5	<5	8



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Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 3 of 5

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000892.1

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	
1892477	Soil	2	<3	3	1	26	5	84	<0.3	8	10	1238	3.91	<2	2	12	<0.5	<3	<3	28	0.28
1892478	Soil	<2	<3	<2	<1	23	<3	91	<0.3	21	15	695	3.60	4	<2	8	<0.5	<3	<3	45	0.15
1892479	Soil	<2	<3	2	<1	21	6	79	<0.3	15	10	661	4.17	7	2	11	<0.5	<3	<3	51	0.17
1892480	Soil	3	<3	3	1	20	12	67	<0.3	16	8	247	3.55	10	<2	12	<0.5	<3	<3	70	0.15
1892481	Soil	5	<3	4	1	34	10	70	<0.3	26	9	370	2.90	16	4	25	<0.5	4	6	50	0.31
1892482	Soil	4	<3	3	2	47	17	116	<0.3	30	10	369	3.36	395	6	26	<0.5	31	<3	39	0.18
1892483	Soil	20	<3	<2	1	51	19	140	<0.3	36	26	1309	6.92	15	15	27	<0.5	<3	8	120	0.97
1892484	Soil	5	<3	2	1	17	13	61	<0.3	26	12	530	3.31	13	6	20	<0.5	<3	<3	58	0.29
1892485	Soil	<2	<3	<2	1	11	18	100	<0.3	13	11	831	4.07	11	14	15	<0.5	3	4	58	0.38
1892486	Soil	2	<3	<2	<1	14	11	71	<0.3	20	9	475	3.49	10	14	15	<0.5	<3	<3	45	0.20
1892487	Soil	7	<3	4	<1	12	11	64	<0.3	14	9	422	3.15	10	12	15	<0.5	<3	<3	39	0.26
1892488	Soil	4	<3	6	1	17	16	52	<0.3	19	9	349	2.78	14	9	16	<0.5	<3	<3	46	0.19
1892489	Soil	4	<3	3	1	25	14	72	<0.3	23	14	731	3.33	12	7	19	<0.5	<3	<3	68	0.77
1892490	Soil	<2	<3	<2	<1	40	20	113	<0.3	44	21	984	5.50	9	26	13	<0.5	<3	3	45	0.43
1892491	Soil	<2	<3	<2	<1	39	23	110	<0.3	43	20	1099	5.39	13	24	12	<0.5	<3	<3	39	0.39
1892492	Soil	6	<3	2	<1	24	8	56	<0.3	27	10	465	2.63	11	7	27	<0.5	<3	<3	45	0.41
1892493	Soil	3	<3	4	<1	22	10	58	<0.3	27	10	340	2.79	11	7	24	<0.5	<3	<3	46	0.39
1892494	Soil	5	<3	2	<1	20	12	54	<0.3	21	9	401	2.58	9	7	23	<0.5	<3	<3	40	0.37
1892495	Soil	<2	<3	<2	<1	19	10	63	<0.3	21	11	424	2.97	16	10	18	<0.5	<3	6	36	0.31
1891988	Silt	<2	<3	3	<1	19	5	52	<0.3	8	3	122	1.58	2	<2	7	<0.5	<3	<3	32	0.12
1891989	Silt	<2	<3	<2	<1	20	<3	46	<0.3	8	4	146	1.50	3	<2	7	<0.5	<3	<3	32	0.14
1891990	Silt	17	3	23	<1	15	7	38	<0.3	7	3	130	1.57	6	3	10	<0.5	<3	<3	24	0.15
1891991	Silt	7	<3	<2	<1	16	7	45	<0.3	11	4	119	1.96	8	<2	11	<0.5	<3	5	32	0.14
1891992	Silt	3	<3	3	<1	68	5	88	<0.3	30	15	576	3.50	4	2	20	<0.5	<3	<3	85	0.39
1891993	Silt	8	<3	3	<1	29	4	50	<0.3	12	6	217	2.04	3	<2	10	<0.5	<3	<3	46	0.21
1891994	Silt	12	<3	<2	<1	24	3	41	<0.3	13	7	240	1.98	5	3	18	<0.5	<3	<3	45	0.37
1891995	Silt	2	<3	3	<1	28	5	55	<0.3	16	8	255	2.23	4	2	22	<0.5	<3	<3	48	0.42
1891996	Silt	6	<3	2	<1	25	6	60	<0.3	14	7	250	2.24	4	2	15	<0.5	<3	3	43	0.32
1891997	Silt	9	<3	<2	<1	8	4	30	<0.3	7	3	128	1.35	<2	4	10	<0.5	<3	<3	28	0.24
1891998	Silt	<2	<3	3	<1	15	7	31	<0.3	8	7	343	1.87	6	4	11	<0.5	<3	<3	29	0.25



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Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 3 of 5

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000892.1

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	
1892477	Soil	0.033	19	6	0.82	238	0.087	<20	1.84	<0.01	0.44	<2	<0.05	<1	<5	<5	14
1892478	Soil	0.022	6	15	1.54	290	0.225	<20	2.87	<0.01	0.59	<2	<0.05	<1	<5	<5	<5
1892479	Soil	0.035	8	25	1.08	294	0.189	<20	2.72	<0.01	0.39	<2	<0.05	<1	<5	7	7
1892480	Soil	0.031	13	30	0.50	229	0.077	<20	2.08	<0.01	0.08	<2	<0.05	<1	<5	6	<5
1892481	Soil	0.056	18	30	0.49	546	0.054	<20	1.52	<0.01	0.05	<2	<0.05	<1	<5	<5	5
1892482	Soil	0.034	16	38	0.15	258	0.010	<20	0.57	<0.01	0.06	<2	<0.05	<1	<5	<5	8
1892483	Soil	0.241	29	124	2.63	626	0.186	<20	4.04	<0.01	1.08	<2	<0.05	<1	<5	18	15
1892484	Soil	0.047	18	52	0.74	314	0.068	<20	1.85	<0.01	0.08	<2	<0.05	<1	<5	6	<5
1892485	Soil	0.135	17	40	1.28	316	0.187	<20	2.15	<0.01	0.86	<2	<0.05	<1	<5	8	7
1892486	Soil	0.044	30	37	0.70	374	0.119	<20	1.87	<0.01	0.38	<2	<0.05	<1	<5	5	6
1892487	Soil	0.068	37	22	0.55	315	0.123	<20	1.52	<0.01	0.43	<2	<0.05	<1	<5	6	6
1892488	Soil	0.033	28	31	0.44	354	0.068	<20	1.51	<0.01	0.09	<2	<0.05	<1	<5	6	<5
1892489	Soil	0.032	27	32	0.58	385	0.045	<20	1.28	<0.01	0.11	<2	<0.05	<1	<5	<5	9
1892490	Soil	0.123	55	51	1.06	318	0.213	<20	1.92	<0.01	1.04	<2	<0.05	<1	<5	5	7
1892491	Soil	0.116	42	45	0.88	342	0.190	<20	1.75	<0.01	0.93	<2	<0.05	<1	<5	<5	7
1892492	Soil	0.058	26	35	0.46	470	0.062	<20	1.34	0.01	0.07	<2	<0.05	<1	<5	<5	5
1892493	Soil	0.051	25	39	0.52	443	0.069	<20	1.47	<0.01	0.10	<2	<0.05	<1	<5	<5	5
1892494	Soil	0.060	27	31	0.47	401	0.069	<20	1.35	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1892495	Soil	0.072	26	26	0.39	271	0.068	<20	1.06	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1891988	Silt	0.036	9	16	0.46	247	0.065	<20	0.86	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1891989	Silt	0.042	8	15	0.49	256	0.061	<20	0.80	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
1891990	Silt	0.054	16	13	0.37	251	0.063	<20	0.87	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1891991	Silt	0.048	11	15	0.34	226	0.039	<20	1.01	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1891992	Silt	0.051	17	59	1.37	882	0.139	<20	2.03	0.01	0.41	<2	0.06	<1	<5	7	8
1891993	Silt	0.059	10	23	0.64	313	0.069	<20	1.04	0.01	0.18	<2	<0.05	<1	<5	<5	<5
1891994	Silt	0.059	11	18	0.61	319	0.077	<20	1.03	0.01	0.15	<2	<0.05	<1	<5	<5	<5
1891995	Silt	0.059	11	22	0.68	360	0.082	<20	1.20	0.01	0.16	<2	<0.05	<1	<5	<5	<5
1891996	Silt	0.059	11	22	0.64	350	0.077	<20	1.07	0.01	0.22	<2	<0.05	<1	<5	<5	<5
1891997	Silt	0.079	18	13	0.38	178	0.056	<20	0.77	<0.01	0.12	<2	<0.05	<1	<5	<5	<5
1891998	Silt	0.057	10	11	0.34	238	0.051	<20	0.61	<0.01	0.15	<2	<0.05	<1	<5	<5	<5



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Report Date: October 18, 2017

Page: 4 of 5

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000892.1

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	
1891999	Silt	5	<3	<2	<1	12	5	37	<0.3	11	5	229	1.60	5	4	18	<0.5	<3	<3	28	0.35
1892201	Silt	<2	<3	<2	<1	10	4	28	<0.3	8	5	221	1.35	5	3	13	<0.5	<3	<3	22	0.27
1892202	Silt	9	<3	<2	<1	10	7	43	<0.3	13	6	205	1.76	7	5	25	<0.5	<3	<3	35	0.45
1892203	Silt	<2	<3	<2	1	15	5	39	<0.3	13	7	296	1.97	7	4	24	<0.5	<3	<3	35	0.35
1892204	Silt	5	<3	3	1	19	9	49	<0.3	14	6	233	2.09	5	12	30	<0.5	<3	<3	30	0.44
1892205	Silt	4	<3	<2	<1	16	4	48	<0.3	16	7	288	1.87	7	4	30	<0.5	<3	<3	32	0.54
1892206	Silt	2	<3	<2	<1	12	6	37	<0.3	12	5	259	1.64	7	3	22	<0.5	<3	<3	28	0.35
1892207	Silt	<2	<3	<2	<1	12	5	38	<0.3	12	6	273	1.68	8	4	22	<0.5	<3	<3	29	0.34
1892208	Silt	3	<3	<2	<1	15	6	47	<0.3	15	6	307	1.96	6	4	27	<0.5	<3	<3	33	0.40
1892209	Silt	4	<3	3	<1	16	6	54	<0.3	16	8	308	2.13	6	2	20	<0.5	<3	<3	40	0.36
1892210	Silt	2	<3	<2	<1	11	9	52	<0.3	19	6	196	2.07	6	<2	16	<0.5	<3	<3	38	0.30
1892211	Silt	4	<3	<2	<1	17	6	52	<0.3	15	8	378	2.21	4	2	20	<0.5	<3	<3	41	0.44
1892212	Silt	7	<3	<2	<1	16	5	50	<0.3	15	8	654	2.07	4	4	21	<0.5	<3	<3	39	0.49
1892213	Silt	50	<3	<2	<1	11	4	41	<0.3	13	6	343	1.70	3	4	17	<0.5	<3	<3	33	0.45
1892214	Silt	5	<3	3	<1	7	3	31	<0.3	11	5	189	1.23	<2	3	11	<0.5	<3	<3	24	0.38
1892215	Silt	3	<3	<2	<1	16	5	46	<0.3	13	9	350	2.46	5	4	18	<0.5	<3	<3	41	0.43
1892216	Silt	<2	<3	<2	<1	13	3	27	<0.3	9	4	143	1.38	4	3	11	<0.5	<3	<3	31	0.31
1892217	Silt	4	<3	2	<1	18	7	69	<0.3	26	10	530	2.37	4	2	19	<0.5	<3	<3	44	0.54
1892218	Silt	4	<3	4	<1	16	6	61	<0.3	20	10	504	2.31	5	3	16	<0.5	<3	<3	48	0.53
1892219	Silt	3	<3	3	<1	7	5	45	<0.3	18	6	236	1.58	2	3	11	<0.5	<3	<3	29	0.38
1892220	Silt	5	<3	4	<1	14	7	69	<0.3	34	10	485	2.34	3	3	20	<0.5	<3	<3	41	0.57
1892221	Silt	4	<3	5	<1	14	6	68	<0.3	35	10	487	2.31	4	3	20	<0.5	<3	<3	41	0.57
1892222	Silt	3	<3	2	<1	10	7	57	<0.3	25	9	542	2.22	4	4	15	<0.5	<3	<3	38	0.37
1892223	Silt	3	<3	<2	<1	8	7	50	<0.3	19	9	463	2.21	5	5	12	<0.5	<3	<3	35	0.33
1892224	Silt	4	<3	4	<1	15	12	74	<0.3	28	12	630	2.43	4	4	20	<0.5	<3	<3	39	0.58
1892225	Silt	3	<3	<2	<1	12	7	53	<0.3	16	6	205	1.86	6	4	20	<0.5	<3	<3	35	0.41
1892226	Silt	4	<3	<2	<1	8	6	43	<0.3	16	5	145	1.67	5	3	15	<0.5	<3	<3	32	0.33
1892421	Silt	7	<3	3	<1	6	9	42	<0.3	6	2	136	1.31	2	5	9	<0.5	<3	<3	17	0.13
1892422	Silt	5	<3	<2	<1	6	8	38	<0.3	5	2	119	1.16	2	5	8	<0.5	<3	<3	16	0.14
1892423	Silt	6	<3	5	<1	7	8	34	<0.3	5	2	84	0.96	2	2	8	<0.5	<3	<3	15	0.12



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Page: 4 of 5

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000892.1

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	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	0.01	2	0.05	1	5	5
1891999	Silt	0.054	14	14	0.39	241	0.059	<20	0.80	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1892201	Silt	0.059	11	11	0.31	185	0.043	<20	0.60	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892202	Silt	0.086	22	17	0.37	305	0.057	<20	0.84	0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892203	Silt	0.062	17	17	0.39	306	0.066	<20	1.02	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892204	Silt	0.038	46	19	0.42	439	0.072	<20	1.22	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892205	Silt	0.068	13	17	0.45	242	0.051	<20	0.88	0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892206	Silt	0.059	15	15	0.33	228	0.051	<20	0.79	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892207	Silt	0.054	15	14	0.35	228	0.052	<20	0.80	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892208	Silt	0.064	21	18	0.41	291	0.060	<20	0.99	0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892209	Silt	0.069	12	24	0.54	284	0.063	<20	1.11	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892210	Silt	0.060	11	32	0.50	318	0.072	<20	1.18	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1892211	Silt	0.079	11	27	0.61	325	0.072	<20	1.17	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892212	Silt	0.077	12	25	0.59	337	0.073	<20	1.13	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892213	Silt	0.095	10	23	0.51	257	0.062	<20	0.94	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892214	Silt	0.096	7	24	0.40	182	0.053	<20	0.78	<0.01	0.10	3	<0.05	<1	<5	<5	<5
1892215	Silt	0.078	11	22	0.56	294	0.068	<20	1.09	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892216	Silt	0.066	8	17	0.36	166	0.051	<20	0.75	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892217	Silt	0.070	13	53	0.86	495	0.102	<20	1.54	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
1892218	Silt	0.076	11	54	0.87	475	0.100	<20	1.44	<0.01	0.29	<2	<0.05	<1	<5	<5	<5
1892219	Silt	0.074	7	40	0.58	254	0.075	<20	1.06	<0.01	0.17	4	<0.05	<1	<5	<5	<5
1892220	Silt	0.075	16	57	0.84	366	0.100	<20	1.48	<0.01	0.29	<2	<0.05	<1	<5	<5	<5
1892221	Silt	0.076	17	58	0.83	367	0.100	<20	1.53	<0.01	0.28	2	<0.05	<1	<5	<5	<5
1892222	Silt	0.083	15	56	0.77	413	0.108	<20	1.40	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
1892223	Silt	0.096	11	42	0.61	319	0.094	<20	1.07	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
1892224	Silt	0.067	24	49	0.74	453	0.091	<20	1.52	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892225	Silt	0.071	12	22	0.46	317	0.054	<20	0.99	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892226	Silt	0.077	10	29	0.43	252	0.058	<20	1.01	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892421	Silt	0.044	17	12	0.40	215	0.075	<20	0.81	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892422	Silt	0.044	14	10	0.36	194	0.069	<20	0.73	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
1892423	Silt	0.036	15	9	0.25	134	0.046	<20	0.60	<0.01	0.08	<2	<0.05	<1	<5	<5	<5



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Page: 5 of 5

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000892.1

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
1892424	Silt	3	<3	<2	<1	41	5	69	<0.3	12	7	247	2.62	3	3	9	<0.5	<3	<3	52	0.16
1892425	Silt	3	<3	9	<1	51	5	89	<0.3	23	10	547	3.13	3	3	11	<0.5	<3	<3	61	0.18
1892426	Silt	5	<3	4	1	53	5	94	<0.3	25	10	547	3.29	3	4	12	<0.5	<3	<3	65	0.24
1892427	Silt	4	<3	3	<1	24	6	53	<0.3	15	8	287	2.21	5	5	20	<0.5	<3	<3	39	0.41
1892428	Silt	2	<3	2	<1	18	5	44	<0.3	12	6	295	1.92	5	4	18	<0.5	<3	<3	33	0.38
1892429	Silt	9	<3	<2	<1	13	5	41	<0.3	13	6	231	1.65	4	5	20	<0.5	<3	<3	28	0.39
1892430	Silt	5	<3	4	<1	10	4	37	<0.3	11	5	207	1.46	3	5	18	<0.5	<3	<3	26	0.35
1892431	Silt	8	<3	<2	<1	9	4	36	<0.3	11	5	201	1.41	4	5	17	<0.5	<3	<3	25	0.36
1892432	Soil	4	<3	<2	<1	9	6	43	<0.3	9	4	228	1.92	4	10	13	<0.5	<3	<3	22	0.10
1892000	Soil	3	<3	3	<1	16	6	47	<0.3	14	7	273	1.85	5	5	22	<0.5	<3	<3	32	0.43
1892268	Soil	4	<3	<2	<1	11	6	46	<0.3	14	6	281	1.70	3	3	17	<0.5	<3	<3	31	0.41
1892269	Soil	6	<3	3	<1	20	7	65	<0.3	20	9	563	2.35	5	3	25	<0.5	<3	<3	44	0.48
1892270	Soil	6	3	2	<1	17	7	56	<0.3	17	8	310	2.01	7	3	23	<0.5	<3	<3	36	0.43
1892271	Soil	3	<3	2	<1	16	8	69	<0.3	19	9	374	2.01	7	5	20	<0.5	<3	<3	34	0.42
1892272	Soil	6	<3	2	<1	16	9	59	<0.3	18	9	393	1.98	8	5	18	<0.5	<3	<3	34	0.40
1892273	Soil	5	<3	6	<1	18	8	66	<0.3	19	8	283	2.11	6	4	26	<0.5	<3	<3	37	0.53
1892274	Soil	5	<3	2	<1	19	8	65	<0.3	20	8	310	2.11	7	4	27	<0.5	<3	<3	37	0.57
1892275	Soil	6	<3	3	<1	20	11	90	<0.3	23	14	863	2.27	8	4	24	<0.5	<3	<3	35	0.53
1892276	Soil	4	<3	<2	<1	13	6	37	<0.3	18	7	248	1.58	4	3	11	<0.5	<3	<3	28	0.36
1892277	Soil	5	<3	4	1	18	13	89	<0.3	24	13	676	2.44	11	4	20	<0.5	<3	<3	37	0.47
1892278	Soil	6	<3	3	<1	21	8	70	<0.3	21	11	951	2.87	10	3	27	<0.5	<3	<3	46	0.51
1892279	Soil	5	4	3	<1	20	7	71	<0.3	21	9	595	2.35	7	3	29	<0.5	<3	<3	42	0.56
1892280	Soil	6	<3	6	<1	18	7	64	<0.3	19	9	549	2.25	6	3	27	<0.5	<3	<3	40	0.52
1892281	Soil	6	<3	<2	<1	17	7	60	<0.3	18	8	347	2.09	5	3	26	<0.5	<3	<3	38	0.51
1892282	Soil	4	<3	5	<1	15	6	56	<0.3	17	7	258	1.95	5	3	26	<0.5	<3	<3	35	0.51
1892283	Soil	10	<3	<2	<1	14	6	54	<0.3	17	7	244	2.07	5	4	28	<0.5	<3	<3	42	0.62
1892284	Soil	6	<3	<2	<1	19	7	62	<0.3	19	9	396	2.20	7	3	27	<0.5	<3	<3	39	0.55
1892285	Soil	11	<3	<2	<1	16	6	53	<0.3	16	7	371	2.05	8	2	24	<0.5	<3	<3	36	0.47



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Project: EUK-17029-YT

Report Date: October 18, 2017

Page: 5 of 5

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000892.1

Method Analyte	Unit	AQ300	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			
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
1892424	Silt	0.052	11	22	0.63	358	0.078	<20	1.07	<0.01	0.27	<2	<0.05	<1	<5	<5	6	
1892425	Silt	0.056	11	41	0.79	494	0.089	<20	1.20	<0.01	0.42	<2	<0.05	<1	<5	<5	8	
1892426	Silt	0.053	11	44	0.90	520	0.102	<20	1.37	<0.01	0.45	<2	<0.05	<1	<5	<5	8	
1892427	Silt	0.051	12	20	0.61	354	0.072	<20	1.04	<0.01	0.20	<2	<0.05	<1	<5	<5	<5	
1892428	Silt	0.062	12	17	0.49	282	0.063	<20	0.90	<0.01	0.15	<2	<0.05	<1	<5	<5	<5	
1892429	Silt	0.061	14	14	0.42	250	0.054	<20	0.79	<0.01	0.10	<2	<0.05	<1	<5	<5	<5	
1892430	Silt	0.065	14	13	0.37	233	0.049	<20	0.71	<0.01	0.09	<2	<0.05	<1	<5	<5	<5	
1892431	Silt	0.069	13	14	0.35	224	0.048	<20	0.68	<0.01	0.08	<2	<0.05	<1	<5	<5	<5	
1892432	Soil	0.022	30	12	0.70	333	0.073	<20	1.34	<0.01	0.25	<2	<0.05	<1	<5	<5	<5	
1892000	Soil	0.051	15	17	0.50	290	0.068	<20	0.98	<0.01	0.13	<2	<0.05	<1	<5	<5	<5	
1892268	Soil	0.084	10	23	0.48	228	0.061	<20	0.99	<0.01	0.09	<2	<0.05	<1	<5	<5	<5	
1892269	Soil	0.065	14	31	0.67	379	0.077	<20	1.34	<0.01	0.13	<2	<0.05	<1	<5	<5	<5	
1892270	Soil	0.075	12	20	0.47	267	0.047	<20	0.96	0.01	0.06	<2	<0.05	<1	<5	<5	<5	
1892271	Soil	0.064	17	26	0.48	307	0.060	<20	1.07	<0.01	0.11	<2	<0.05	<1	<5	<5	<5	
1892272	Soil	0.078	16	26	0.43	291	0.058	<20	0.98	<0.01	0.10	<2	<0.05	<1	<5	<5	<5	
1892273	Soil	0.076	13	25	0.54	302	0.054	<20	1.09	0.01	0.07	6	<0.05	<1	<5	<5	<5	
1892274	Soil	0.080	14	26	0.57	308	0.058	<20	1.01	0.01	0.09	<2	<0.05	<1	<5	<5	<5	
1892275	Soil	0.081	28	33	0.55	338	0.063	<20	1.23	<0.01	0.13	<2	<0.05	<1	<5	<5	<5	
1892276	Soil	0.096	10	41	0.42	192	0.043	<20	0.75	<0.01	0.07	<2	<0.05	<1	<5	<5	<5	
1892277	Soil	0.088	26	39	0.55	337	0.072	<20	1.18	<0.01	0.15	<2	<0.05	<1	<5	<5	<5	
1892278	Soil	0.086	18	31	0.62	387	0.069	<20	1.33	0.01	0.12	<2	<0.05	<1	<5	<5	<5	
1892279	Soil	0.075	15	26	0.64	325	0.063	<20	1.22	0.01	0.10	<2	<0.05	<1	<5	<5	<5	
1892280	Soil	0.074	15	25	0.58	323	0.063	<20	1.14	0.01	0.09	<2	<0.05	<1	<5	<5	<5	
1892281	Soil	0.069	14	22	0.55	297	0.060	<20	1.12	0.01	0.08	<2	<0.05	<1	<5	<5	<5	
1892282	Soil	0.078	13	20	0.53	254	0.055	<20	1.00	0.01	0.07	<2	<0.05	<1	<5	<5	<5	
1892283	Soil	0.087	16	22	0.54	409	0.063	<20	0.93	0.02	0.07	<2	<0.05	<1	<5	<5	<5	
1892284	Soil	0.072	14	23	0.58	298	0.060	<20	1.13	0.01	0.08	<2	<0.05	<1	<5	<5	<5	
1892285	Soil	0.080	12	19	0.46	259	0.048	<20	0.94	0.01	0.06	<2	<0.05	<1	<5	<5	<5	



QUALITY CONTROL REPORT

WHI17000892.1

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																					
1892437	Soil	5	4	<2	1	11	9	51	<0.3	15	7	261	2.37	6	9	17	<0.5	<3	<3	37	0.23
REP 1892437	QC				1	11	7	50	<0.3	15	7	257	2.35	7	8	16	<0.5	<3	<3	37	0.22
1892439	Soil	3	<3	<2	1	21	8	47	<0.3	19	7	226	2.32	8	7	21	<0.5	<3	<3	40	0.29
REP 1892439	QC	3	<3	<2																	
1892493	Soil	3	<3	4	<1	22	10	58	<0.3	27	10	340	2.79	11	7	24	<0.5	<3	<3	46	0.39
REP 1892493	QC				<1	22	12	58	<0.3	28	10	342	2.80	10	7	24	<0.5	<3	<3	46	0.39
1892494	Soil	5	<3	2	<1	20	12	54	<0.3	21	9	401	2.58	9	7	23	<0.5	<3	<3	40	0.37
REP 1892494	QC	3	<3	<2																	
1892222	Silt	3	<3	2	<1	10	7	57	<0.3	25	9	542	2.22	4	4	15	<0.5	<3	<3	38	0.37
REP 1892222	QC	4	<3	2	<1	10	7	58	<0.3	25	9	538	2.25	4	4	15	<0.5	<3	<3	38	0.36
1892279	Soil	5	4	3	<1	20	7	71	<0.3	21	9	595	2.35	7	3	29	<0.5	<3	<3	42	0.56
REP 1892279	QC				<1	19	7	68	<0.3	21	9	575	2.29	7	3	28	<0.5	<3	<3	42	0.54
1892285	Soil	11	<3	<2	<1	16	6	53	<0.3	16	7	371	2.05	8	2	24	<0.5	<3	<3	36	0.47
REP 1892285	QC	5	<3	3																	
Reference Materials																					
STD CDN-PGMS-19	Standard	240	109	490																	
STD CDN-PGMS-23	Standard	482	462	2147																	
STD CDN-PGMS-19	Standard	235	119	530																	
STD CDN-PGMS-23	Standard	488	478	2185																	
STD CDN-PGMS-19	Standard	234	116	508																	
STD CDN-PGMS-23	Standard	504	524	2186																	
STD CDN-PGMS-19	Standard	209	119	510																	
STD DS11	Standard				12	150	138	341	1.8	81	14	1053	3.24	47	7	67	2.1	9	10	49	1.06
STD DS11	Standard				13	152	140	344	1.8	82	14	1058	3.26	45	6	67	2.0	7	13	50	1.08
STD DS11	Standard				12	149	131	340	1.7	76	13	1043	3.01	43	8	63	2.1	5	11	47	1.01
STD DS11	Standard				13	150	137	339	1.9	76	13	1047	3.07	43	7	66	2.2	6	11	48	1.04
STD OREAS45EA	Standard				2	710	14	31	<0.3	403	55	423	24.82	14	7	4	<0.5	<3	<3	304	0.03
STD OREAS45EA	Standard				2	731	9	32	0.3	416	58	434	25.79	13	8	4	<0.5	<3	<3	320	0.03



QUALITY CONTROL REPORT

WHI17000892.1

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																	
1892437	Soil	0.045	27	24	0.46	354	0.082	<20	1.28	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
REP 1892437	QC	0.045	26	24	0.45	348	0.081	<20	1.25	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892439	Soil	0.045	24	27	0.48	364	0.092	<20	1.38	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
REP 1892439	QC																
1892493	Soil	0.051	25	39	0.52	443	0.069	<20	1.47	<0.01	0.10	<2	<0.05	<1	<5	<5	5
REP 1892493	QC	0.050	25	39	0.52	445	0.070	<20	1.48	0.01	0.10	<2	<0.05	<1	<5	<5	5
1892494	Soil	0.060	27	31	0.47	401	0.069	<20	1.35	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
REP 1892494	QC																
1892222	Silt	0.083	15	56	0.77	413	0.108	<20	1.40	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
REP 1892222	QC	0.080	15	56	0.79	413	0.108	<20	1.40	<0.01	0.22	<2	<0.05	<1	<5	<5	<5
1892279	Soil	0.075	15	26	0.64	325	0.063	<20	1.22	0.01	0.10	<2	<0.05	<1	<5	<5	<5
REP 1892279	QC	0.072	14	26	0.62	320	0.064	<20	1.20	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892285	Soil	0.080	12	19	0.46	259	0.048	<20	0.94	0.01	0.06	<2	<0.05	<1	<5	<5	<5
REP 1892285	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																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD DS11	Standard	0.072	16	57	0.85	436	0.086	<20	1.13	0.07	0.40	<2	0.29	<1	<5	<5	<5
STD DS11	Standard	0.074	17	59	0.86	437	0.090	<20	1.15	0.07	0.41	3	0.29	<1	<5	<5	<5
STD DS11	Standard	0.069	15	56	0.84	425	0.084	<20	1.07	0.07	0.39	2	0.27	<1	<5	<5	<5
STD DS11	Standard	0.070	17	56	0.86	425	0.089	<20	1.12	0.07	0.40	3	0.28	<1	<5	<5	<5
STD OREAS45EA	Standard	0.031	7	892	0.10	147	0.100	<20	3.37	0.02	0.06	<2	<0.05	<1	<5	<5	86
STD OREAS45EA	Standard	0.033	8	925	0.10	151	0.103	<20	3.49	0.02	0.06	<2	<0.05	<1	<5	<5	88



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Project: EUK-17029-YT
Report Date: October 18, 2017

Page: 2 of 2

Part: 1 of 2

QUALITY CONTROL REPORT

WHI17000892.1

		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	%
STD OREAS45EA	Standard	2	3	2	1	668	14	29	<0.3	368	53	402	20.78	3	9	4	0.6	<3	<3	303	0.04
STD OREAS45EA	Standard				2	696	13	30	<0.3	384	54	417	21.95	4	7	4	<0.5	<3	<3	309	0.04
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-23 Expected		496	456	2032																	
STD CDN-PGMS-19 Expected		230	108	476																	
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	<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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Project: EUK-17029-YT
Report Date: October 18, 2017

Page: 2 of 2

Part: 2 of 2

QUALITY CONTROL REPORT

WHI17000892.1

		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
		%	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 OREAS45EA	Standard	0.029	7	861	0.10	151	0.094	<20	3.05	0.02	0.05	<2	<0.05	<1	<5	24	78
STD OREAS45EA	Standard	0.030	8	885	0.10	150	0.101	<20	3.29	0.02	0.05	<2	<0.05	<1	<5	21	81
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-23 Expected																	
STD CDN-PGMS-19 Expected																	
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																
BLK	Blank																
BLK	Blank																
BLK	Blank																
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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 19, 2017
Report Date: October 17, 2017
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI17000890.1

CLIENT JOB INFORMATION

Project: EUK-17029-YT
Shipment ID:
P.O. Number: EUK-17029-YT
Number of Samples: 36

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	36	Crush (>90%), split and pulverize 250g rock to 200 mesh			WHI
FA350-Au	36	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	36	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	36	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	36	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 17, 2017

Page: 2 of 3

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000890.1

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	
1909112	Rock	0.44	<2	<1	5	138	11	0.5	1	<1	24	0.32	<2	<2	2	<0.5	<3	6	<1	<0.01	0.002
1909113	Rock	0.54	<2	<1	2	<3	8	<0.3	<1	<1	57	0.42	<2	15	5	<0.5	<3	<3	2	0.02	0.006
1909114	Rock	0.33	<2	<1	8	<3	15	<0.3	3	7	372	0.91	<2	12	4	<0.5	<3	<3	9	0.09	0.025
1909115	Rock	0.43	<2	5	17	<3	9	<0.3	<1	<1	34	0.87	<2	12	5	<0.5	<3	<3	<1	0.02	0.010
1909116	Rock	0.39	<2	<1	28	<3	25	<0.3	2	3	211	1.36	<2	20	12	<0.5	<3	<3	7	0.03	0.015
1909117	Rock	0.73	<2	<1	<1	<3	<1	<0.3	<1	<1	25	0.25	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001
1909118	Rock	0.34	<2	<1	13	<3	14	<0.3	<1	<1	44	0.76	<2	<2	<1	<0.5	<3	<3	<1	<0.01	0.008
1909119	Rock	0.40	<2	<1	2	<3	<1	<0.3	<1	<1	31	0.39	<2	<2	<1	<0.5	<3	<3	<1	<0.01	0.002
1909120	Rock	0.61	<2	<1	89	<3	8	<0.3	1	2	90	0.71	<2	9	10	<0.5	<3	<3	13	0.21	0.018
1909121	Rock	0.41	2	<1	29	<3	12	<0.3	15	6	339	1.20	<2	<2	52	<0.5	<3	<3	42	0.95	0.131
1909122	Rock	0.37	<2	<1	11	<3	11	<0.3	1	2	198	0.67	<2	16	2	<0.5	<3	<3	3	0.04	0.011
1909123	Rock	0.54	<2	<1	52	9	57	<0.3	56	21	2138	2.86	2	8	3	<0.5	<3	4	51	0.06	0.052
1909124	Rock	0.53	4	<1	36	<3	68	<0.3	322	33	490	6.23	36	<2	3	<0.5	33	<3	32	<0.01	0.012
1909125	Rock	0.41	<2	1	7	<3	51	<0.3	11	12	1380	3.10	189	4	5	<0.5	8	<3	41	0.01	0.023
1909126	Rock	0.33	4	<1	16	<3	1	<0.3	10	6	48	0.55	<2	<2	<1	<0.5	<3	<3	3	0.03	0.014
1909127	Rock	0.54	<2	3	59	42	40	<0.3	8	7	472	2.33	37	<2	18	<0.5	9	<3	12	<0.01	0.027
1909128	Rock	0.72	<2	9	67	<3	137	0.4	31	8	506	11.14	82	<2	30	<0.5	36	<3	124	0.02	0.039
1909129	Rock	0.36	268	9	17	1204	15	>100	3	<1	35	1.38	70	<2	34	<0.5	44	<3	14	0.01	0.060
1909130	Rock	0.56	2	2	27	6	15	1.3	4	1	155	2.04	323	<2	12	<0.5	34	<3	16	<0.01	0.009
1909004	Rock	0.91	2	<1	73	<3	214	1.3	23	19	674	4.90	3	<2	7	<0.5	<3	<3	143	0.21	0.048
1909005	Rock	1.26	<2	7	19	48	90	<0.3	23	4	165	2.01	102	3	17	<0.5	17	<3	24	0.02	0.016
1909006	Rock	0.86	<2	<1	2	12	30	<0.3	3	1	135	2.38	15	8	49	<0.5	<3	<3	15	0.03	0.015
1909007	Rock	1.88	<2	11	26	54	97	<0.3	23	4	239	4.32	121	3	15	<0.5	26	<3	44	0.04	0.034
1909008	Rock	0.45	<2	4	95	8	9	<0.3	3	<1	37	2.64	493	<2	15	<0.5	114	<3	5	<0.01	0.015
1909010	Rock	0.68	<2	7	97	12	37	<0.3	6	6	81	3.46	79	<2	15	<0.5	30	<3	44	<0.01	0.036
1909011	Rock	1.10	20	16	20	30	15	7.1	3	<1	27	1.09	46	<2	36	<0.5	13	<3	36	0.02	0.094
1909159	Rock	0.69	<2	<1	10	<3	32	<0.3	<1	<1	250	1.42	<2	29	5	<0.5	<3	<3	3	0.03	0.012
1909160	Rock	0.51	<2	<1	12	<3	14	<0.3	1	2	199	0.98	<2	15	8	<0.5	<3	<3	7	0.13	0.019
1909161	Rock	0.42	<2	<1	25	<3	35	<0.3	16	12	302	2.03	2	4	27	<0.5	<3	<3	50	0.92	0.081
1909162	Rock	0.42	3	<1	35	<3	19	0.6	55	12	273	1.22	32	9	19	<0.5	4	<3	50	0.54	0.040



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Project: EUK-17029-YT

Report Date: October 17, 2017

Page: 2 of 3

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000890.1

Method	Analyte	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	Tl	Ga	Sc
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
1909112	Rock	2	13	<0.01	107	0.001	<20	0.08	0.03	0.07	<2	<0.05	<1	<5	<5	<5
1909113	Rock	26	4	0.16	117	0.023	23	0.33	0.07	0.22	<2	<0.05	<1	<5	<5	<5
1909114	Rock	2	7	0.22	299	0.038	<20	0.68	0.03	0.34	<2	<0.05	<1	<5	<5	<5
1909115	Rock	16	5	0.06	252	0.011	21	0.28	0.05	0.22	<2	0.15	<1	<5	<5	<5
1909116	Rock	8	7	0.24	995	0.070	22	0.55	0.04	0.46	<2	<0.05	<1	<5	<5	<5
1909117	Rock	<1	16	<0.01	8	<0.001	<20	0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
1909118	Rock	<1	21	<0.01	37	<0.001	<20	0.04	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
1909119	Rock	<1	19	<0.01	10	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
1909120	Rock	9	8	0.15	112	0.022	<20	0.45	0.05	0.17	<2	<0.05	<1	<5	<5	<5
1909121	Rock	1	11	0.38	42	0.073	<20	0.78	0.07	0.04	<2	<0.05	<1	<5	<5	<5
1909122	Rock	3	6	0.10	133	0.022	<20	0.39	0.04	0.25	<2	<0.05	<1	<5	<5	<5
1909123	Rock	35	35	0.04	509	0.006	<20	0.59	<0.01	0.10	<2	<0.05	<1	<5	<5	12
1909124	Rock	1	346	0.01	282	0.002	<20	0.14	<0.01	0.01	4	<0.05	3	<5	5	<5
1909125	Rock	12	19	0.02	627	0.002	<20	0.41	<0.01	0.08	<2	<0.05	<1	<5	<5	6
1909126	Rock	<1	23	0.04	25	0.002	<20	0.06	<0.01	0.01	<2	<0.05	<1	<5	<5	<5
1909127	Rock	3	15	<0.01	113	0.001	<20	0.14	<0.01	0.05	<2	<0.05	1	<5	<5	<5
1909128	Rock	6	44	0.01	3340	0.002	<20	0.43	<0.01	0.02	<2	0.07	1	<5	<5	37
1909129	Rock	3	21	<0.01	503	0.001	<20	0.07	<0.01	0.06	<2	0.14	<1	<5	<5	<5
1909130	Rock	4	16	<0.01	99	0.001	<20	0.12	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1909004	Rock	3	50	2.34	773	0.156	<20	2.61	0.07	0.78	<2	0.61	<1	<5	6	17
1909005	Rock	4	17	<0.01	707	0.002	<20	0.26	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1909006	Rock	15	11	0.01	217	0.003	<20	0.51	<0.01	0.04	<2	<0.05	<1	<5	<5	5
1909007	Rock	6	19	0.01	587	0.002	<20	0.26	<0.01	0.09	<2	<0.05	<1	<5	<5	7
1909008	Rock	2	8	<0.01	62	0.001	<20	0.18	<0.01	0.05	<2	<0.05	4	<5	<5	<5
1909010	Rock	3	23	<0.01	142	0.002	<20	0.31	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1909011	Rock	3	21	<0.01	808	0.001	<20	0.11	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
1909159	Rock	16	5	0.22	234	0.055	<20	0.53	0.04	0.46	<2	<0.05	<1	<5	<5	<5
1909160	Rock	11	6	0.17	175	0.069	<20	0.51	0.05	0.30	<2	<0.05	<1	<5	<5	<5
1909161	Rock	6	98	1.26	820	0.155	<20	1.56	0.11	0.64	<2	<0.05	<1	<5	<5	<5
1909162	Rock	11	262	1.29	457	0.103	<20	1.09	0.05	0.64	<2	<0.05	<1	<5	<5	<5



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Project: EUK-17029-YT

Report Date: October 17, 2017

Page: 3 of 3

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000890.1

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	
1909163	Rock	0.48	<2	<1	<1	10	6	<0.3	<1	<1	20	0.58	10	17	3	<0.5	<3	<3	<1	<0.01	0.012
1909164	Rock	0.43	<2	13	16	54	18	<0.3	4	<1	42	1.04	41	3	17	<0.5	18	<3	31	0.02	0.031
1909165	Rock	0.78	2	4	96	<3	222	<0.3	56	13	676	9.54	648	3	14	<0.5	58	<3	42	<0.01	0.109
1909166	Rock	0.83	<2	<1	3	6	49	<0.3	8	3	404	1.90	5	15	14	<0.5	<3	<3	30	<0.01	0.006
1909167	Rock	1.00	<2	<1	4	<3	<1	<0.3	2	<1	65	0.36	<2	<2	<1	<0.5	<3	<3	1	0.02	0.001
1909168	Rock	0.65	<2	<1	37	<3	<1	<0.3	11	63	32	2.03	2	<2	<1	<0.5	<3	<3	5	<0.01	0.011



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Page: 3 of 3

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000890.1

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	Tl	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	0.01	2	0.05	1	5	5	5
1909163	Rock	28	4	<0.01	40	0.001	<20	0.49	<0.01	0.12	<2	<0.05	<1	<5	<5	<5
1909164	Rock	9	13	0.01	875	0.001	<20	0.16	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1909165	Rock	7	24	<0.01	219	0.003	<20	0.43	<0.01	0.10	<2	<0.05	4	<5	<5	6
1909166	Rock	13	24	0.03	606	0.006	<20	0.58	<0.01	0.05	<2	<0.05	<1	<5	<5	5
1909167	Rock	<1	27	<0.01	7	<0.001	<20	0.02	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
1909168	Rock	<1	32	0.01	31	<0.001	<20	0.04	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5



QUALITY CONTROL REPORT

WHI17000890.1

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																					
1909124	Rock	0.53	4	<1	36	<3	68	<0.3	322	33	490	6.23	36	<2	3	<0.5	33	<3	32	<0.01	0.012
REP 1909124	QC	3																			
1909128	Rock	0.72	<2	9	67	<3	137	0.4	31	8	506	11.14	82	<2	30	<0.5	36	<3	124	0.02	0.039
REP 1909128	QC	9 65 3 129 0.3 31 8 496 10.84 78 <2 30 <0.5 31 <3 119 0.02 0.038																			
1909130	Rock	0.56	2	2	27	6	15	1.3	4	1	155	2.04	323	<2	12	<0.5	34	<3	16	<0.01	0.009
REP 1909130	QC	<2																			
1909166	Rock	0.83	<2	<1	3	6	49	<0.3	8	3	404	1.90	5	15	14	<0.5	<3	<3	30	<0.01	0.006
REP 1909166	QC	<2																			
Core Reject Duplicates																					
1909011	Rock	1.10	20	16	20	30	15	7.1	3	<1	27	1.09	46	<2	36	<0.5	13	<3	36	0.02	0.094
DUP 1909011	QC	19 16 20 27 15 6.7 3 <1 28 1.09 47 <2 36 <0.5 12 <3 37 0.02 0.097																			
Reference Materials																					
STD DS11	Standard	14 144 128 339 1.6 79 13 1001 3.07 41 8 63 2.3 6 14 48 1.03 0.070																			
STD DS11	Standard	13 143 130 306 1.6 76 13 976 2.98 40 6 61 2.1 8 13 47 1.02 0.069																			
STD OREAS45EA	Standard	2 673 15 29 0.4 356 52 404 20.45 9 11 3 1.3 <3 5 287 0.03 0.030																			
STD OREAS45EA	Standard	2 667 12 29 0.4 349 52 403 21.28 10 10 3 0.7 <3 5 290 0.03 0.030																			
STD OXC145	Standard	204																			
STD OXC145	Standard	209																			
STD OXC145	Standard	208																			
STD OXH139	Standard	1274																			
STD OXH139 Expected		1312																			
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																			
BLK	Blank	<2																			
BLK	Blank	<2																			
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	<1 <1 <3 <1 <0.3 <1 <1 <2 <0.01 <2 <2 <1 <0.5 <3 <3 <1 <0.01 <0.001																			



QUALITY CONTROL REPORT

WHI17000890.1

Method	Analyte	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	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																
1909124	Rock	1	346	0.01	282	0.002	<20	0.14	<0.01	0.01	4	<0.05	3	<5	5	<5
REP 1909124	QC															
1909128	Rock	6	44	0.01	3340	0.002	<20	0.43	<0.01	0.02	<2	0.07	1	<5	<5	37
REP 1909128	QC	6	43	<0.01	3260	0.002	<20	0.42	<0.01	0.02	<2	0.07	1	<5	<5	36
1909130	Rock	4	16	<0.01	99	0.001	<20	0.12	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
REP 1909130	QC															
1909166	Rock	13	24	0.03	606	0.006	<20	0.58	<0.01	0.05	<2	<0.05	<1	<5	<5	5
REP 1909166	QC															
Core Reject Duplicates																
1909011	Rock	3	21	<0.01	808	0.001	<20	0.11	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
DUP 1909011	QC	3	21	<0.01	798	0.001	<20	0.11	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
Reference Materials																
STD DS11	Standard	16	58	0.82	420	0.087	<20	1.10	0.07	0.39	2	0.28	<1	<5	<5	<5
STD DS11	Standard	16	57	0.79	404	0.084	<20	1.07	0.07	0.38	3	0.28	<1	<5	<5	<5
STD OREAS45EA	Standard	7	847	0.09	138	0.095	<20	3.08	0.02	0.05	<2	<0.05	<1	<5	7	80
STD OREAS45EA	Standard	8	854	0.09	138	0.097	<20	3.15	0.02	0.05	<2	<0.05	<1	<5	14	80
STD OXC145	Standard															
STD OXC145	Standard															
STD OXC145	Standard															
STD OXH139	Standard															
STD OXH139 Expected																
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	3.1
STD OXC145 Expected																
BLK	Blank															
BLK	Blank															
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<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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Project: EUK-17029-YT
Report Date: October 17, 2017

Page: 2 of 2

Part: 1 of 2

QUALITY CONTROL REPORT

WHI17000890.1

		WGHT	FA350	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		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	
BLK	Blank		<2																			
BLK	Blank		<2																			
Prep Wash																						
ROCK-WHI	Prep Blank		<2	<1	3	<3	29	<0.3	<1	3	552	1.57	<2	<2	26	<0.5	<3	<3	17	0.69	0.037	
ROCK-WHI	Prep Blank		<2	<1	3	<3	29	<0.3	<1	3	549	1.64	<2	<2	23	<0.5	<3	3	19	0.64	0.038	



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Page: 2 of 2

Part: 2 of 2

QUALITY CONTROL REPORT

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		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	Tl	Ga	Sc
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		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															
Prep Wash																
ROCK-WHI	Prep Blank	5	3	0.45	49	0.059	<20	1.01	0.07	0.10	<2	<0.05	<1	<5	<5	<5
ROCK-WHI	Prep Blank	5	4	0.47	46	0.059	25	0.95	0.06	0.09	<2	0.09	<1	<5	<5	<5