



**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:** **0890763 B.C. Ltd**  
1600-609 Granville Street  
Vancouver British Columbia V7Y 1C3 Canada

Submitted By: Bart Jaworski  
Receiving Lab: Canada-Whitehorse  
Received: October 17, 2016  
Report Date: November 03, 2016  
Page: 1 of 7

# CERTIFICATE OF ANALYSIS

WHI16000371.1

## CLIENT JOB INFORMATION

Project: ROYAL  
Shipment ID: ROY2016-10-14  
P.O. Number  
Number of Samples: 158

## SAMPLE DISPOSAL

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

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

Invoice To: 0890763 B.C. Ltd  
1600-609 Granville Street  
Vancouver British Columbia V7Y 1C3  
Canada

CC: Jodie Gibson  
Isaac Fage

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	158	Dry at 60C			WHI
SS80	158	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	158	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## ADDITIONAL COMMENTS

  
JEFFREY CANNON  
Geochemistry Department Supervisor

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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**Report Date:** November 03, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000371.1

Method Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1458261	Soil		2.6	27.1	14.2	69	0.3	24.1	12.0	562	3.08	28.3	2.2	10.3	3.8	54	0.5	2.1	0.9	71	0.38	0.070
1457800	Soil		1.3	20.3	8.3	65	<0.1	23.3	9.5	498	2.83	8.6	1.0	1.5	1.9	22	0.2	0.5	0.5	64	0.20	0.051
1457795	Soil		1.7	24.6	14.8	54	0.1	21.2	9.7	527	2.98	16.4	1.2	44.6	2.6	26	0.1	0.6	1.4	71	0.23	0.054
1457793	Soil		1.7	45.0	14.8	62	0.3	23.5	13.9	750	3.20	16.0	3.2	6.4	6.1	92	0.2	1.0	1.2	67	0.46	0.083
1458260	Soil		1.8	16.4	10.9	34	0.3	11.3	4.0	94	1.67	13.5	0.8	5.9	0.2	19	0.3	1.3	0.6	45	0.16	0.070
1458253	Soil		0.9	23.2	24.3	51	0.4	25.6	12.5	506	2.67	17.5	1.7	356.6	5.3	37	0.2	1.0	10.3	67	0.35	0.063
1458256	Soil		1.4	22.9	29.5	101	0.5	18.4	8.3	440	3.05	72.6	1.0	28.8	2.1	37	1.5	28.4	6.5	69	0.27	0.051
1457797	Soil		1.4	22.7	8.6	54	<0.1	27.1	9.6	495	3.11	14.1	0.7	3.0	2.3	19	0.1	0.6	0.5	79	0.24	0.040
1458263	Soil		1.8	27.3	14.2	75	0.2	26.4	11.1	688	3.01	15.3	1.4	11.6	3.1	37	0.6	1.1	0.8	69	0.38	0.098
1457798	Soil		0.9	24.9	7.2	55	0.1	26.3	10.6	494	2.88	8.6	1.6	2.7	5.5	23	0.1	0.5	0.5	71	0.29	0.043
1458252	Soil		1.2	25.7	167.0	75	0.3	25.3	9.4	393	2.54	9.9	1.3	6.0	4.5	36	0.4	1.3	0.8	66	0.33	0.065
1458251	Soil		1.2	26.1	22.7	52	0.1	23.9	10.2	347	2.84	9.8	1.3	6.2	4.5	25	0.1	0.6	0.6	66	0.27	0.058
1458258	Soil		3.3	37.9	67.7	142	3.1	21.6	14.1	733	3.23	310.7	4.1	30.2	2.4	62	1.6	30.2	4.5	67	0.48	0.088
1458257	Soil		2.2	18.7	41.2	100	2.1	13.4	6.0	213	2.20	163.2	1.4	11.8	0.9	41	2.2	15.3	3.0	57	0.25	0.060
1457796	Soil		3.4	27.6	14.8	55	0.5	22.0	9.1	446	2.91	114.7	1.9	5.6	2.6	21	<0.1	0.9	2.4	64	0.20	0.043
1457789	Soil		1.0	35.2	15.9	57	0.3	21.8	13.2	657	3.13	11.9	2.0	5.2	7.2	44	0.2	0.9	0.9	65	0.39	0.062
1458142	Soil		1.8	50.7	11.7	54	0.2	23.6	18.6	485	3.36	23.6	2.7	7.9	7.0	31	0.2	0.5	4.8	78	0.39	0.068
1458134	Soil		1.4	25.2	17.8	66	0.1	24.2	10.5	450	3.03	17.1	1.3	6.9	2.0	17	0.4	0.5	1.7	73	0.27	0.061
1458141	Soil		1.4	28.5	11.7	63	0.1	29.6	13.0	656	3.28	11.9	1.4	1.6	3.7	22	0.3	0.5	0.7	77	0.35	0.065
1457833	Soil		2.4	29.9	19.9	53	0.3	16.0	12.2	444	3.48	9.1	3.9	11.3	4.4	57	0.3	0.7	1.5	72	0.38	0.074
1458132	Soil		3.3	28.8	34.8	75	0.6	21.9	12.7	588	3.45	20.6	3.8	44.6	4.8	42	0.2	0.7	4.5	77	0.48	0.075
1458137	Soil		3.4	37.8	17.5	65	0.3	25.3	14.4	592	3.70	17.7	3.6	23.9	4.7	33	0.2	0.6	5.2	86	0.34	0.058
1458136	Soil		2.0	29.8	15.6	63	0.3	17.1	10.4	517	3.06	20.2	3.3	7.5	4.0	32	0.2	0.5	2.4	73	0.43	0.075
1457832	Soil		4.4	48.3	14.7	47	0.3	16.0	8.8	346	3.80	7.7	4.4	20.2	5.6	88	0.2	0.6	3.4	75	0.61	0.089
1458139	Soil		4.4	58.2	13.5	54	0.3	23.8	11.7	360	3.72	22.0	5.1	18.0	4.0	21	0.1	0.8	7.1	95	0.25	0.053
1458135	Soil		2.4	73.7	40.6	68	0.5	25.9	15.6	548	3.62	30.9	5.9	5.4	5.8	26	0.3	0.8	5.5	78	0.36	0.070
1458133	Soil		1.0	30.8	15.4	58	<0.1	29.3	12.7	464	3.33	14.9	1.0	2.6	4.2	19	0.4	0.5	2.1	80	0.29	0.045
1457836	Soil		7.3	114.2	15.7	52	0.6	23.3	12.4	461	4.35	9.7	3.5	128.6	7.4	48	0.3	0.7	1.5	73	0.39	0.111
1458140	Soil		3.3	32.5	15.5	60	0.1	26.4	13.5	592	3.37	15.5	2.8	3.6	4.4	19	0.2	0.5	1.9	79	0.29	0.057
1458131	Soil		4.8	35.3	32.4	89	0.4	24.7	18.8	1048	3.93	42.4	4.7	7.3	2.0	51	0.3	1.1	4.8	90	0.50	0.091

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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WHI16000371.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2
1458261	Soil	15	33	0.62	102	0.075	2	2.13	0.016	0.07	0.2	0.03	3.7	0.2	<0.05	6	<0.5	<0.2
1457800	Soil	9	32	0.53	107	0.072	2	1.88	0.012	0.07	0.2	0.06	2.9	0.1	0.06	6	<0.5	<0.2
1457795	Soil	13	33	0.57	93	0.068	2	1.82	0.013	0.07	0.2	0.03	3.1	0.1	<0.05	6	<0.5	<0.2
1457793	Soil	26	33	0.75	356	0.068	2	2.29	0.020	0.09	0.2	0.03	5.5	0.2	<0.05	6	<0.5	<0.2
1458260	Soil	6	22	0.17	59	0.030	2	0.90	0.016	0.04	0.1	0.06	1.2	0.1	0.09	5	<0.5	<0.2
1458253	Soil	13	31	0.52	84	0.083	2	1.93	0.016	0.06	0.3	0.04	3.0	0.1	<0.05	5	<0.5	<0.2
1458256	Soil	10	32	0.45	88	0.076	1	1.41	0.010	0.06	0.3	0.05	2.3	0.1	<0.05	6	<0.5	<0.2
1457797	Soil	11	36	0.56	93	0.089	2	2.01	0.014	0.06	0.1	0.03	3.4	0.1	<0.05	6	<0.5	<0.2
1458263	Soil	13	34	0.60	105	0.079	3	2.10	0.018	0.06	0.2	0.05	3.4	0.1	<0.05	6	<0.5	<0.2
1457798	Soil	14	33	0.67	111	0.116	2	2.22	0.018	0.09	0.2	0.02	4.3	0.2	<0.05	6	<0.5	<0.2
1458252	Soil	12	34	0.54	82	0.086	2	2.01	0.017	0.07	0.2	0.05	3.4	0.1	<0.05	5	<0.5	<0.2
1458251	Soil	15	39	0.63	89	0.098	2	2.42	0.013	0.08	0.1	0.04	4.8	0.1	<0.05	6	<0.5	<0.2
1458258	Soil	14	35	0.59	116	0.051	2	2.22	0.018	0.09	0.2	0.09	3.7	0.2	0.09	7	0.5	<0.2
1458257	Soil	8	26	0.34	91	0.052	3	1.44	0.015	0.05	0.2	0.07	2.2	0.2	0.07	6	<0.5	<0.2
1457796	Soil	14	34	0.59	96	0.055	2	2.35	0.010	0.08	0.2	0.04	3.5	0.2	<0.05	6	<0.5	<0.2
1457789	Soil	25	31	0.68	157	0.064	1	2.32	0.016	0.10	0.5	0.03	5.4	0.3	<0.05	6	<0.5	<0.2
1458142	Soil	14	32	0.68	109	0.120	2	2.36	0.021	0.12	0.5	0.02	3.8	0.3	<0.05	7	<0.5	0.2
1458134	Soil	11	33	0.58	90	0.086	2	2.10	0.015	0.09	0.3	0.04	3.4	0.2	<0.05	6	<0.5	<0.2
1458141	Soil	12	36	0.66	113	0.095	2	2.32	0.016	0.09	0.2	0.04	3.7	0.2	<0.05	7	<0.5	<0.2
1457833	Soil	14	27	0.58	117	0.078	2	2.12	0.021	0.09	0.2	0.03	3.5	0.2	<0.05	7	0.7	<0.2
1458132	Soil	16	37	0.79	194	0.086	2	2.59	0.015	0.13	0.2	0.04	6.6	0.4	<0.05	8	<0.5	<0.2
1458137	Soil	16	36	0.74	144	0.102	2	2.57	0.017	0.12	0.3	0.03	4.4	0.3	<0.05	8	<0.5	0.2
1458136	Soil	14	28	0.71	126	0.101	2	1.91	0.022	0.16	0.2	0.02	3.8	0.3	<0.05	6	<0.5	<0.2
1457832	Soil	14	27	0.75	138	0.104	<1	2.39	0.021	0.14	0.3	0.02	4.5	0.3	<0.05	8	0.9	0.6
1458139	Soil	12	35	0.51	72	0.111	3	2.06	0.015	0.07	1.1	0.04	3.4	0.3	<0.05	9	0.6	0.4
1458135	Soil	16	35	0.68	106	0.100	1	2.22	0.021	0.12	0.5	0.03	4.3	0.4	<0.05	6	<0.5	<0.2
1458133	Soil	11	37	0.64	108	0.134	2	2.43	0.021	0.10	0.4	0.03	4.3	0.3	<0.05	6	<0.5	<0.2
1457836	Soil	16	32	0.69	105	0.113	2	2.22	0.020	0.10	0.8	0.04	4.7	0.2	<0.05	6	1.0	0.7
1458140	Soil	13	35	0.74	107	0.100	2	2.51	0.017	0.10	0.5	0.04	4.1	0.2	<0.05	6	<0.5	<0.2
1458131	Soil	23	39	0.78	283	0.060	2	3.05	0.020	0.12	0.3	0.04	5.4	0.5	0.10	9	<0.5	<0.2



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Method Analyte	Unit	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1458138	Soil	1.1	34.1	11.4	79	<0.1	36.8	13.6	610	3.41	10.7	1.4	5.0	3.0	21	0.2	0.5	1.5	72	0.32	0.069
1457834	Soil	3.2	36.5	14.6	62	0.2	19.0	10.7	450	3.13	11.7	3.9	16.8	5.3	62	0.2	0.9	1.4	64	0.63	0.068
1457831	Soil	9.6	15.1	57.9	116	0.5	13.8	10.8	532	3.49	10.7	4.2	46.4	5.8	53	0.8	1.8	1.1	37	0.35	0.094
1458143	Soil	6.6	54.8	18.2	70	0.5	28.2	22.6	770	4.22	46.1	23.0	16.0	10.0	45	0.3	0.8	4.7	80	0.43	0.122
1457828	Soil	4.8	50.6	26.0	50	0.9	15.2	7.5	315	2.93	17.7	4.1	62.9	2.6	65	0.5	2.4	4.0	68	0.43	0.055
1457827	Soil	2.3	26.3	15.6	55	0.4	21.4	10.8	620	3.10	19.4	4.1	4.8	1.7	39	0.1	0.6	1.3	73	0.43	0.069
1457830	Soil	2.4	45.2	15.2	52	0.2	17.6	13.2	510	3.19	16.4	7.0	16.7	6.9	62	0.3	1.0	2.2	68	0.40	0.076
1457826	Soil	1.1	28.8	9.4	52	0.1	19.6	10.2	391	2.67	11.2	1.6	15.8	6.2	31	0.3	0.6	3.2	66	0.39	0.078
1458144	Soil	3.3	42.9	17.2	68	0.3	23.8	18.6	625	4.02	38.6	5.9	41.1	7.2	33	0.3	1.0	3.6	75	0.26	0.128
1458148	Soil	3.5	58.8	13.8	38	<0.1	14.5	11.0	379	4.08	11.5	6.6	14.9	17.2	141	0.2	0.8	2.3	61	0.48	0.103
1457835	Soil	3.0	113.2	20.0	55	0.3	16.5	9.1	372	3.61	9.5	6.1	14.3	6.3	98	0.3	0.8	2.7	69	0.42	0.077
1457829	Soil	2.9	36.0	16.6	51	0.4	16.5	11.2	430	2.75	14.0	5.5	70.0	5.4	71	0.3	0.9	2.9	61	0.46	0.072
1458146	Soil	3.2	37.2	15.2	29	0.2	8.8	11.3	562	2.58	21.5	3.7	9.2	2.9	103	0.4	0.6	4.1	44	0.81	0.094
1458147	Soil	3.3	45.2	17.0	63	0.2	29.0	16.3	697	3.58	18.0	5.6	18.5	7.1	44	0.3	0.8	2.0	80	0.39	0.084
1457837	Soil	4.1	46.1	19.1	43	0.3	14.7	7.7	250	3.71	10.4	2.8	26.7	5.3	41	0.2	1.0	1.8	81	0.19	0.058
1458145	Soil	7.2	43.4	28.5	56	0.3	21.2	22.2	765	4.13	54.1	10.1	23.1	7.8	60	0.7	1.1	6.8	62	0.40	0.123
1458150	Soil	3.1	46.1	16.1	55	0.4	20.1	15.1	612	3.43	21.5	5.1	20.5	9.2	53	0.2	0.8	3.1	74	0.44	0.086
1458149	Soil	3.2	47.7	17.4	58	0.3	20.2	14.9	623	3.56	22.5	5.2	60.2	10.4	57	0.3	0.9	3.8	74	0.44	0.089
1458262	Soil	5.1	27.6	141.6	281	0.7	14.5	9.5	687	3.60	59.6	2.1	7.9	5.1	104	2.8	4.2	2.8	75	0.31	0.047
1457510	Soil	2.7	35.5	17.4	59	0.5	15.3	15.1	484	3.09	13.5	11.8	13.4	6.9	82	0.3	0.8	2.2	67	0.52	0.083
1457504	Soil	5.4	30.9	17.5	53	0.5	17.7	16.8	926	3.34	14.0	9.8	13.0	3.0	55	0.2	0.8	1.7	73	0.34	0.068
1457507	Soil	1.8	24.4	14.1	62	0.2	21.0	10.6	473	2.94	14.9	2.9	7.3	3.8	35	0.2	0.7	1.1	75	0.39	0.075
1457511	Soil	4.4	33.4	11.5	52	0.2	14.5	13.3	476	3.23	10.3	7.2	4.4	7.3	66	0.2	0.5	2.7	72	0.40	0.064
1457513	Soil	3.9	37.0	14.0	52	0.3	17.5	12.2	395	3.73	10.2	9.9	9.0	7.7	81	0.2	0.7	1.6	78	0.42	0.076
1457503	Soil	3.6	36.6	15.9	55	0.3	19.2	13.5	477	3.25	14.4	6.7	20.9	8.1	67	0.3	0.8	1.9	70	0.55	0.082
1458522	Soil	2.0	21.8	10.0	44	0.2	17.0	7.8	214	3.15	11.8	1.1	6.5	2.6	24	0.2	0.7	1.4	84	0.20	0.039
1457509	Soil	2.8	31.3	14.6	59	0.2	16.5	11.2	457	3.21	11.1	5.7	21.3	5.0	67	0.2	0.7	2.2	69	0.44	0.066
1457514	Soil	4.2	32.2	13.0	56	0.2	16.0	9.3	345	3.05	10.1	4.0	11.0	4.4	63	0.3	0.7	1.5	70	0.38	0.058
1458525	Soil	13.9	34.2	10.8	54	0.3	21.9	17.5	458	3.41	16.1	6.1	13.3	6.8	47	0.2	0.7	2.3	71	0.32	0.070
1457508	Soil	2.4	35.9	15.3	59	0.2	17.9	9.9	373	3.26	13.1	5.0	13.2	4.7	58	0.2	0.8	1.9	75	0.44	0.072



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**Project:** ROYAL  
**Report Date:** November 03, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000371.1

Method Analyte	Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	TI ppm	S %	Ga ppm	Se ppm	Te ppm
1458138	Soil	12	39	0.74	137	0.102	2	2.89	0.015	0.09	0.3	0.05	4.1	0.3	<0.05	7	<0.5	<0.2
1457834	Soil	13	30	0.66	106	0.073	2	2.96	0.019	0.09	0.2	0.02	4.3	0.2	<0.05	7	<0.5	<0.2
1457831	Soil	20	21	0.35	387	0.018	2	1.43	0.007	0.09	0.1	0.04	2.8	0.2	0.08	4	0.8	<0.2
1458143	Soil	23	33	0.71	142	0.090	2	2.46	0.030	0.16	0.5	0.05	5.0	0.3	0.10	6	0.9	0.7
1457828	Soil	16	26	0.38	102	0.056	2	1.85	0.018	0.08	0.1	0.04	2.8	0.2	0.06	7	<0.5	0.5
1457827	Soil	18	35	0.59	144	0.052	2	2.21	0.015	0.07	0.1	0.04	3.5	0.2	0.05	7	<0.5	<0.2
1457830	Soil	17	29	0.58	166	0.095	1	2.01	0.020	0.08	0.3	0.03	4.1	0.2	<0.05	7	0.5	0.3
1457826	Soil	12	27	0.54	135	0.104	2	1.78	0.018	0.07	0.3	0.03	3.6	0.1	<0.05	5	<0.5	<0.2
1458144	Soil	15	30	0.55	118	0.087	3	2.32	0.023	0.09	0.6	0.07	4.3	0.2	0.09	7	0.9	0.3
1458148	Soil	23	22	0.48	221	0.067	1	2.21	0.046	0.13	0.2	0.02	3.8	0.3	0.16	6	0.5	0.4
1457835	Soil	17	26	0.57	120	0.099	2	2.61	0.025	0.09	0.2	0.03	4.5	0.2	<0.05	7	0.5	0.4
1457829	Soil	15	27	0.57	113	0.095	2	1.79	0.024	0.09	0.2	0.03	3.7	0.2	0.05	6	<0.5	0.2
1458146	Soil	16	13	0.47	142	0.008	<1	2.55	0.032	0.09	0.1	0.07	1.7	0.2	0.07	6	<0.5	0.5
1458147	Soil	16	35	0.71	168	0.109	2	2.63	0.019	0.09	0.3	0.06	5.2	0.2	<0.05	7	0.7	0.2
1457837	Soil	14	26	0.43	101	0.101	1	2.31	0.015	0.07	0.4	0.05	3.8	0.2	0.05	10	0.6	<0.2
1458145	Soil	20	26	0.56	159	0.068	2	2.40	0.038	0.14	0.3	0.06	3.6	0.3	0.18	6	0.7	1.1
1458150	Soil	20	29	0.61	170	0.092	1	2.46	0.025	0.11	0.3	0.04	4.9	0.3	<0.05	7	<0.5	0.2
1458149	Soil	20	29	0.62	181	0.090	1	2.47	0.025	0.11	0.4	0.03	4.7	0.3	<0.05	7	<0.5	0.2
1458262	Soil	14	26	0.47	176	0.042	2	2.20	0.012	0.09	0.2	0.06	3.3	0.3	<0.05	9	<0.5	<0.2
1457510	Soil	24	26	0.69	164	0.094	1	2.56	0.021	0.12	0.2	0.04	5.3	0.3	0.05	7	<0.5	<0.2
1457504	Soil	18	32	0.54	168	0.073	2	2.43	0.021	0.07	0.2	0.05	4.2	0.3	0.06	8	<0.5	<0.2
1457507	Soil	15	33	0.61	153	0.103	3	2.02	0.016	0.08	0.2	0.03	4.0	0.2	<0.05	7	0.5	<0.2
1457511	Soil	17	24	0.64	124	0.106	1	2.19	0.018	0.13	0.3	0.02	4.4	0.3	<0.05	8	0.6	<0.2
1457513	Soil	20	28	0.69	161	0.116	1	2.61	0.030	0.13	0.2	0.03	5.3	0.3	0.12	9	<0.5	0.3
1457503	Soil	19	29	0.63	171	0.093	2	2.34	0.025	0.10	0.3	0.03	4.5	0.2	<0.05	7	<0.5	0.2
1458522	Soil	10	29	0.33	123	0.104	2	1.94	0.015	0.05	0.3	0.06	3.4	0.3	<0.05	8	<0.5	<0.2
1457509	Soil	15	30	0.62	176	0.094	1	2.19	0.019	0.09	0.2	0.02	4.0	0.2	<0.05	7	<0.5	0.2
1457514	Soil	14	25	0.58	129	0.106	<1	2.33	0.021	0.08	0.2	0.02	3.9	0.2	<0.05	8	<0.5	<0.2
1458525	Soil	13	32	0.62	121	0.113	1	2.62	0.021	0.09	0.3	0.03	4.9	0.2	<0.05	7	<0.5	0.3
1457508	Soil	15	33	0.63	147	0.108	<1	2.31	0.018	0.10	0.2	0.02	4.0	0.2	<0.05	8	0.6	0.2



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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1457512	Soil		2.2	35.9	12.4	57	0.2	19.5	11.8	437	3.61	13.2	5.4	6.3	6.0	48	0.4	0.7	1.5	82	0.33	0.062
1458524	Soil		3.5	32.3	11.1	58	0.2	23.3	16.1	433	3.50	11.1	5.6	8.7	6.0	34	0.2	0.7	1.8	77	0.26	0.060
1457506	Soil		3.8	26.7	18.3	58	0.3	20.8	13.2	509	3.58	18.2	4.5	11.5	5.1	37	0.6	0.7	1.6	82	0.29	0.049
1457502	Soil		4.1	35.8	22.5	46	0.2	20.6	22.4	621	3.84	24.2	10.2	13.7	12.3	66	0.8	0.7	2.9	67	0.37	0.061
1457501	Soil		4.6	39.9	21.9	60	0.4	18.3	18.5	808	4.23	30.1	6.8	8.6	6.0	107	0.3	0.9	3.5	69	0.30	0.115
1458521	Soil		3.2	23.6	12.0	52	0.1	16.2	9.3	326	3.52	19.7	1.8	4.3	5.3	29	0.3	0.8	2.2	86	0.21	0.054
1458518	Soil		3.4	50.5	18.1	57	0.2	26.0	20.2	557	4.03	26.4	5.5	9.7	9.6	31	0.3	0.6	3.6	76	0.32	0.078
1458510	Soil		2.8	44.3	19.0	68	0.4	17.3	13.6	472	3.41	26.2	7.3	5.1	9.6	45	0.2	1.0	5.7	84	0.38	0.089
1458512	Soil		1.7	25.6	20.6	74	0.2	16.1	11.0	577	3.05	44.0	3.5	8.2	3.3	48	0.3	0.8	2.0	73	0.43	0.061
1458517	Soil		3.6	70.7	52.7	62	0.3	23.7	19.7	666	4.07	33.6	11.0	5.3	9.0	60	0.3	1.0	8.4	85	0.44	0.067
1457505	Soil		4.8	32.4	18.4	54	0.4	19.3	9.8	348	3.04	17.1	9.5	7.9	3.1	47	0.2	0.8	1.8	71	0.41	0.069
1458514	Soil		2.6	26.1	29.7	77	0.2	18.2	12.5	599	3.26	24.0	3.3	12.7	2.9	40	0.4	0.8	4.4	78	0.39	0.069
1458511	Soil		2.2	32.4	16.4	73	0.3	15.8	11.8	572	3.38	29.5	6.0	4.9	5.5	59	0.2	0.8	5.0	79	0.55	0.084
1458519	Soil		2.8	35.8	10.6	53	<0.1	27.6	14.7	378	3.80	25.1	3.6	11.4	8.0	31	0.3	0.6	1.6	78	0.30	0.054
1458523	Soil		2.2	35.5	13.3	60	0.1	26.4	16.4	445	3.92	21.0	3.5	36.4	9.3	32	0.4	0.7	1.8	79	0.29	0.068
1458516	Soil		2.0	28.2	17.9	60	0.2	14.8	11.1	464	2.94	22.2	4.0	5.6	4.7	32	0.4	0.7	3.8	66	0.36	0.057
1458509	Soil		2.7	70.0	25.9	71	0.4	19.0	14.6	716	3.97	43.1	7.2	21.8	8.4	51	0.3	1.2	7.6	89	0.45	0.108
1458513	Soil		2.1	25.7	22.9	78	0.3	18.5	12.2	667	3.08	35.4	3.7	5.9	2.2	42	0.4	0.7	2.7	72	0.44	0.082
1458520	Soil		5.8	31.9	15.4	51	0.2	18.4	13.1	447	4.07	28.9	2.5	17.4	5.7	28	0.2	0.8	2.8	87	0.27	0.059
1458515	Soil		3.6	44.1	33.4	93	0.6	18.2	13.1	705	3.48	36.6	5.0	13.7	3.3	38	0.4	1.0	4.7	78	0.38	0.087
1457783	Soil		0.7	29.1	14.0	74	<0.1	21.7	13.9	739	3.67	13.3	2.7	3.1	9.5	93	0.2	0.7	0.9	82	0.55	0.105
1457785	Soil		3.3	39.7	25.9	53	0.1	17.3	23.5	1485	3.36	106.2	3.6	13.6	10.5	19	0.2	1.3	4.1	52	0.24	0.079
1457786	Soil		6.1	59.9	146.4	100	2.2	26.5	13.4	550	3.83	597.3	1.8	67.1	4.2	23	0.9	3.7	28.2	64	0.23	0.053
1457784	Soil		1.7	45.4	21.8	88	0.2	20.1	15.0	826	3.95	36.3	4.5	5.1	9.6	80	0.3	1.0	2.6	81	0.49	0.094
1457788	Soil		0.8	32.4	23.1	60	0.3	20.8	11.6	530	3.06	11.2	2.0	2.2	7.2	53	0.2	0.7	4.3	67	0.37	0.079
1457787	Soil		0.8	30.5	12.1	61	0.1	23.1	11.5	437	2.94	12.7	1.3	4.2	5.0	45	0.1	0.6	0.6	67	0.31	0.064
1457792	Soil		1.4	23.2	17.4	49	0.2	14.1	11.0	949	2.57	32.1	1.6	5.2	6.9	49	0.1	0.9	0.9	44	0.36	0.064
1457791	Soil		0.7	25.2	7.9	67	<0.1	30.3	12.4	535	3.17	9.4	1.0	6.1	4.1	44	0.2	0.5	0.3	85	0.38	0.055
1457790	Soil		0.5	23.0	24.8	46	0.4	10.9	11.0	978	2.33	11.5	1.7	2.3	8.2	50	0.2	1.3	0.6	38	0.63	0.079
1457794	Soil		1.0	22.8	9.4	71	<0.1	25.5	11.7	523	2.94	10.1	0.9	5.5	3.9	22	0.2	0.5	0.4	68	0.26	0.046



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1457512	Soil	18	31	0.65	154	0.117	2	2.74	0.018	0.10	0.2	0.03	4.5	0.3	<0.05	9	<0.5	<0.2
1458524	Soil	17	36	0.62	120	0.120	2	2.76	0.018	0.08	0.3	0.04	5.3	0.2	<0.05	8	<0.5	<0.2
1457506	Soil	14	35	0.56	152	0.094	1	2.38	0.013	0.07	0.2	0.05	4.1	0.2	<0.05	8	<0.5	<0.2
1457502	Soil	32	30	0.58	231	0.046	1	3.78	0.025	0.09	0.2	0.04	5.3	0.4	<0.05	8	<0.5	0.3
1457501	Soil	17	27	0.54	212	0.044	<1	3.30	0.028	0.11	0.2	0.11	3.7	0.3	0.12	9	0.8	0.4
1458521	Soil	11	27	0.46	106	0.128	1	1.75	0.015	0.10	0.8	0.06	3.5	0.2	0.05	9	<0.5	0.3
1458518	Soil	16	33	0.68	167	0.114	3	2.89	0.020	0.12	0.6	0.04	4.7	0.3	<0.05	7	0.5	0.4
1458510	Soil	25	32	0.80	264	0.136	1	2.74	0.020	0.20	0.6	0.03	6.6	0.6	<0.05	8	<0.5	<0.2
1458512	Soil	16	30	0.65	178	0.086	2	2.09	0.016	0.11	0.3	0.02	4.1	0.3	<0.05	7	<0.5	<0.2
1458517	Soil	23	33	0.77	187	0.116	1	2.96	0.024	0.14	0.7	0.04	5.4	0.5	<0.05	9	<0.5	0.2
1457505	Soil	20	31	0.57	167	0.078	2	2.26	0.019	0.08	0.2	0.04	4.0	0.2	0.06	8	<0.5	<0.2
1458514	Soil	16	32	0.68	194	0.084	2	2.27	0.016	0.10	0.2	0.03	4.3	0.3	<0.05	7	<0.5	<0.2
1458511	Soil	21	27	0.78	276	0.111	3	2.78	0.019	0.17	0.4	0.03	6.3	0.5	0.05	8	<0.5	<0.2
1458519	Soil	14	34	0.68	122	0.132	2	2.80	0.018	0.08	0.4	0.04	6.1	0.3	<0.05	7	<0.5	<0.2
1458523	Soil	15	35	0.67	153	0.120	2	2.91	0.014	0.08	0.5	0.04	5.3	0.3	<0.05	8	<0.5	0.3
1458516	Soil	15	25	0.59	137	0.113	1	1.71	0.018	0.10	0.3	0.03	4.4	0.3	<0.05	6	<0.5	<0.2
1458509	Soil	26	29	0.84	302	0.121	1	3.18	0.020	0.25	0.9	0.04	7.1	0.7	<0.05	10	<0.5	0.3
1458513	Soil	18	33	0.66	196	0.077	2	2.36	0.014	0.08	0.2	0.03	4.9	0.3	0.05	7	<0.5	<0.2
1458520	Soil	13	28	0.47	101	0.112	2	2.34	0.012	0.09	0.4	0.06	4.2	0.2	<0.05	10	<0.5	0.4
1458515	Soil	17	32	0.72	188	0.096	2	2.43	0.017	0.12	1.5	0.03	5.3	0.4	0.07	8	<0.5	<0.2
1457783	Soil	25	34	0.91	328	0.119	1	2.91	0.013	0.16	0.1	0.02	8.3	0.4	<0.05	8	<0.5	<0.2
1457785	Soil	20	21	0.53	91	0.013	1	2.67	0.006	0.06	0.1	0.03	5.8	0.3	<0.05	7	<0.5	<0.2
1457786	Soil	15	33	0.56	123	0.080	3	1.98	0.021	0.14	0.2	0.07	4.5	0.3	0.16	6	<0.5	<0.2
1457784	Soil	27	31	0.88	238	0.066	1	2.97	0.012	0.09	<0.1	0.03	8.2	0.4	<0.05	8	<0.5	<0.2
1457788	Soil	21	30	0.70	141	0.097	2	2.39	0.016	0.09	0.3	0.03	5.2	0.2	<0.05	7	<0.5	<0.2
1457787	Soil	17	36	0.66	113	0.108	2	2.47	0.013	0.08	0.4	0.03	5.4	0.2	<0.05	6	<0.5	<0.2
1457792	Soil	18	18	0.53	191	0.023	<1	3.05	0.013	0.11	<0.1	0.03	4.6	0.2	<0.05	6	<0.5	<0.2
1457791	Soil	14	37	0.61	127	0.129	2	2.12	0.020	0.05	0.3	0.07	4.4	<0.1	<0.05	6	<0.5	<0.2
1457790	Soil	24	15	0.65	116	0.005	1	2.22	0.009	0.10	0.3	0.01	4.7	0.2	<0.05	5	<0.5	<0.2
1457794	Soil	12	32	0.58	99	0.100	2	2.18	0.014	0.06	0.2	0.04	4.0	0.1	<0.05	5	<0.5	<0.2



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**Report Date:** November 03, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000371.1

Method Analyte	Unit	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1458582	Soil	1.7	36.6	76.6	71	0.4	24.2	14.0	590	3.40	88.6	1.9	22.6	3.8	79	0.3	1.7	3.8	67	0.43	0.074
1458587	Soil	2.6	32.2	22.1	64	0.5	19.2	15.9	552	3.30	28.3	3.6	10.1	4.4	178	0.3	1.8	3.2	61	0.80	0.099
1458576	Soil	1.5	30.8	16.6	60	0.1	23.9	14.0	510	3.09	25.1	1.7	10.1	4.9	45	0.3	0.7	2.2	72	0.42	0.089
1458580	Soil	1.8	25.1	24.8	85	0.3	21.4	11.1	604	3.57	16.5	1.0	319.0	1.0	37	0.3	1.1	3.3	80	0.26	0.064
1458577	Soil	1.2	27.0	16.2	55	0.1	16.5	12.6	705	3.17	16.6	10.8	5.5	6.4	79	0.1	1.0	1.2	57	0.49	0.093
1456195	Soil	3.1	48.2	16.5	68	0.4	26.4	15.9	600	3.31	26.5	3.3	41.2	6.0	39	0.2	0.7	2.5	76	0.45	0.089
1458581	Soil	3.8	37.1	137.7	75	0.6	23.6	13.6	632	3.49	30.4	1.9	31.9	3.1	33	0.7	2.4	7.4	75	0.27	0.062
1458584	Soil	3.2	48.6	24.1	53	0.6	24.5	17.4	568	3.73	61.3	4.3	40.9	4.7	61	0.2	1.5	11.4	69	0.35	0.064
1458579	Soil	1.4	26.9	13.8	61	0.4	19.8	10.4	524	2.86	21.6	3.3	6.7	5.8	45	0.1	0.8	1.2	63	0.42	0.066
1458586	Soil	1.8	25.9	13.2	70	<0.1	22.7	12.7	747	3.68	14.1	1.3	5.6	0.9	29	0.1	0.9	1.0	80	0.21	0.078
1458591	Soil	1.5	23.0	25.1	65	0.3	19.9	13.5	513	3.01	16.9	1.8	14.4	6.3	78	0.3	1.5	0.9	61	0.68	0.092
1458590	Soil	1.7	20.8	16.1	62	<0.1	20.4	9.5	410	3.30	12.9	0.9	6.1	2.1	17	0.3	0.9	0.5	79	0.16	0.052
1458589	Soil	2.2	22.6	51.1	104	0.2	19.4	10.0	536	3.70	18.0	1.4	4.3	2.9	22	0.4	1.9	1.0	84	0.14	0.054
1458588	Soil	2.2	27.4	21.4	91	0.4	20.3	15.1	463	3.07	85.5	2.4	8.0	6.9	45	1.1	4.4	1.5	55	0.42	0.083
1456188	Soil	2.1	152.0	66.2	76	0.7	14.5	12.7	1099	3.98	91.8	3.2	68.1	14.4	118	0.5	2.0	43.9	51	0.20	0.054
1458592	Soil	1.8	21.2	25.9	56	0.2	17.0	8.9	333	3.18	18.0	1.6	10.4	1.9	37	0.3	1.2	1.4	74	0.28	0.059
1458593	Soil	2.0	22.7	13.3	55	0.1	16.5	9.8	334	2.78	14.5	1.4	18.4	4.7	36	0.3	1.1	2.1	67	0.40	0.080
1458585	Soil	3.4	84.1	33.9	72	1.4	18.1	13.5	675	3.95	80.1	3.9	15.1	2.7	63	0.3	3.3	34.1	70	0.48	0.084
1456186	Soil	1.9	29.2	9.9	78	<0.1	34.2	12.6	623	3.17	11.8	1.2	4.5	2.9	16	0.3	0.6	0.6	71	0.23	0.062
1456190	Soil	2.4	21.2	16.8	60	<0.1	19.2	9.5	435	3.18	20.3	1.3	1.4	2.2	23	0.2	0.6	0.9	71	0.17	0.054
1456191	Soil	1.7	52.1	15.0	61	0.3	26.7	12.4	520	3.31	26.4	1.6	14.4	2.7	20	0.2	0.6	4.9	76	0.23	0.043
1456185	Soil	5.2	19.8	11.4	67	<0.1	18.6	7.7	392	3.23	13.6	0.8	4.7	1.3	14	0.1	0.6	0.7	85	0.17	0.042
1457530	Soil	6.6	16.5	42.7	162	0.6	18.2	7.7	531	3.75	16.9	4.4	6.6	10.7	31	0.8	2.4	1.0	53	0.64	0.113
1458562	Soil	1.8	25.9	9.7	54	<0.1	26.2	11.0	514	3.05	9.4	1.2	2.4	3.5	18	0.2	0.4	1.3	73	0.27	0.042
1456193	Soil	0.7	22.2	13.5	59	0.4	21.4	9.9	499	3.09	11.6	2.8	4.2	5.1	25	0.1	0.5	1.0	69	0.36	0.069
1456194	Soil	3.6	31.5	16.5	54	0.3	22.9	12.3	490	3.09	17.8	1.3	8.7	2.6	21	0.2	0.9	2.0	72	0.25	0.053
1458564	Soil	9.0	34.4	21.7	75	<0.1	30.5	15.5	577	3.88	22.4	2.6	12.8	1.0	23	0.2	0.8	0.5	81	0.20	0.066
1458561	Soil	7.0	38.2	18.7	73	0.2	32.7	15.9	810	3.78	23.5	3.2	22.2	3.4	17	0.3	0.6	1.6	84	0.21	0.074
1458555	Soil	7.4	34.0	18.5	71	0.2	22.6	10.3	500	3.27	35.5	1.4	15.0	1.9	23	0.3	0.7	4.7	75	0.22	0.053
1458554	Soil	1.8	46.1	13.9	76	<0.1	25.4	12.0	469	3.14	22.9	1.1	55.4	3.2	16	0.3	0.6	17.5	69	0.23	0.034



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**Report Date:** November 03, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000371.1

Method Analyte Unit MDL	AQ201																	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1458582	Soil	12	31	0.52	145	0.074	2	2.31	0.013	0.11	0.2	0.04	3.5	0.2	0.06	7	0.5	<0.2
1458587	Soil	15	26	0.66	190	0.063	1	2.87	0.028	0.12	0.1	0.04	4.0	0.3	<0.05	8	<0.5	<0.2
1458576	Soil	14	31	0.59	131	0.094	2	2.04	0.017	0.07	0.4	0.04	4.0	0.1	<0.05	7	<0.5	<0.2
1458580	Soil	11	35	0.49	158	0.066	2	2.03	0.008	0.07	0.1	0.05	2.7	0.2	0.05	9	<0.5	<0.2
1458577	Soil	26	21	0.51	160	0.036	<1	2.31	0.011	0.09	0.3	0.04	5.3	0.3	<0.05	6	<0.5	<0.2
1456195	Soil	17	35	0.70	177	0.107	2	2.43	0.018	0.09	0.3	0.04	5.3	0.2	<0.05	7	<0.5	<0.2
1458581	Soil	13	34	0.55	126	0.076	2	2.03	0.011	0.08	0.2	0.06	3.6	0.1	<0.05	7	<0.5	<0.2
1458584	Soil	16	32	0.57	116	0.081	2	2.42	0.024	0.09	0.2	0.05	3.9	0.2	0.09	6	<0.5	0.6
1458579	Soil	17	29	0.62	154	0.083	1	2.10	0.013	0.08	0.2	0.03	4.6	0.2	<0.05	6	<0.5	<0.2
1458586	Soil	12	38	0.54	143	0.054	2	2.72	0.009	0.07	0.1	0.06	2.7	0.2	0.06	8	<0.5	<0.2
1458591	Soil	13	27	0.68	114	0.110	1	2.50	0.019	0.09	0.3	0.03	4.5	0.2	<0.05	7	<0.5	<0.2
1458590	Soil	12	36	0.48	83	0.080	2	2.42	0.008	0.07	0.1	0.05	3.4	0.2	<0.05	8	<0.5	<0.2
1458589	Soil	11	34	0.52	83	0.076	2	2.44	0.010	0.07	0.1	0.06	3.1	0.2	<0.05	9	<0.5	<0.2
1458588	Soil	12	27	0.64	104	0.075	<1	2.40	0.012	0.08	0.1	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
1456188	Soil	28	18	0.72	164	0.026	<1	2.34	0.006	0.11	0.1	0.02	4.2	0.4	<0.05	9	<0.5	<0.2
1458592	Soil	11	31	0.52	96	0.080	1	2.28	0.011	0.06	0.2	0.04	3.4	0.2	<0.05	8	<0.5	<0.2
1458593	Soil	12	27	0.55	98	0.106	1	1.89	0.014	0.06	0.2	0.03	3.6	0.2	<0.05	6	<0.5	<0.2
1458585	Soil	12	26	0.74	117	0.048	<1	2.83	0.009	0.12	0.1	0.05	3.1	0.3	0.06	9	<0.5	0.3
1456186	Soil	12	37	0.66	103	0.084	3	2.33	0.009	0.07	0.2	0.04	3.5	0.2	<0.05	6	<0.5	<0.2
1456190	Soil	10	34	0.57	83	0.068	<1	2.09	0.008	0.07	0.1	0.03	3.3	0.2	<0.05	7	<0.5	<0.2
1456191	Soil	11	36	0.70	111	0.096	1	2.22	0.012	0.09	0.1	0.03	4.3	0.2	<0.05	6	<0.5	<0.2
1456185	Soil	8	35	0.40	80	0.091	<1	1.66	0.007	0.05	0.2	0.04	2.9	0.2	<0.05	9	<0.5	<0.2
1457530	Soil	31	49	0.86	478	0.062	2	2.12	0.011	0.16	<0.1	0.04	5.5	0.2	<0.05	7	0.7	<0.2
1458562	Soil	9	36	0.69	98	0.097	2	2.17	0.012	0.09	0.2	0.03	3.8	0.2	<0.05	6	<0.5	<0.2
1456193	Soil	13	36	0.70	122	0.084	2	2.31	0.011	0.10	0.2	0.03	4.9	0.2	<0.05	7	<0.5	<0.2
1456194	Soil	10	34	0.52	95	0.073	2	1.95	0.012	0.06	0.2	0.05	3.2	0.2	<0.05	6	<0.5	<0.2
1458564	Soil	10	39	0.63	93	0.052	3	2.35	0.009	0.07	0.3	0.06	2.9	0.2	0.08	7	0.7	<0.2
1458561	Soil	17	43	0.72	162	0.082	2	3.05	0.009	0.11	0.2	0.05	4.9	0.2	0.06	8	0.6	<0.2
1458555	Soil	9	34	0.54	106	0.072	3	1.85	0.012	0.08	0.2	0.05	3.2	0.3	0.05	7	<0.5	<0.2
1458554	Soil	9	35	0.59	76	0.095	2	1.93	0.009	0.08	0.5	0.04	3.6	0.2	<0.05	6	<0.5	<0.2



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Method Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1458553	Soil		2.1	21.5	13.7	62	0.2	19.8	10.1	428	3.11	19.6	1.1	27.6	2.4	21	0.2	0.5	2.8	71	0.23	0.048
1458560	Soil		0.9	39.5	15.8	53	0.2	28.3	13.7	519	2.89	9.1	1.2	12.8	3.8	18	0.3	0.4	2.7	63	0.26	0.049
1458563	Soil		1.5	23.6	11.7	66	<0.1	27.0	12.6	564	2.99	12.8	1.1	13.4	2.1	17	0.2	0.5	0.9	67	0.20	0.052
1458559	Soil		1.4	25.2	11.4	62	<0.1	28.0	11.8	556	3.32	10.7	1.1	6.3	2.9	16	0.2	0.6	0.4	80	0.22	0.047
1458571	Soil		2.4	25.1	29.4	53	0.6	17.0	11.1	985	2.63	24.4	3.7	10.3	1.0	59	0.7	1.0	2.1	54	0.49	0.084
1458565	Soil		1.0	20.8	11.9	46	0.1	17.2	12.7	501	2.68	11.4	2.2	3.8	4.5	67	0.2	0.5	0.5	57	0.81	0.070
1458558	Soil		2.7	28.0	17.0	63	0.4	14.3	8.7	631	3.05	16.3	5.6	4.1	0.8	52	0.3	0.5	2.4	70	0.54	0.093
1458557	Soil		5.5	41.3	22.9	74	0.7	21.8	12.1	599	3.57	39.7	3.1	18.2	4.0	42	0.2	0.9	8.6	77	0.41	0.049
1458567	Soil		2.8	32.4	12.4	58	0.2	25.7	14.9	584	3.55	15.2	3.3	128.6	6.8	45	0.3	0.5	6.0	73	0.42	0.085
1458566	Soil		1.7	25.3	12.6	66	0.1	24.3	11.1	701	3.29	10.7	1.4	9.1	1.4	14	0.3	0.6	0.4	81	0.18	0.073
1458255	Soil		1.3	36.9	28.2	58	1.0	25.6	11.7	584	2.77	18.6	1.7	116.1	5.1	29	0.3	1.0	4.3	64	0.36	0.069
1458254	Soil		1.7	24.7	22.5	55	0.1	23.1	8.9	401	3.19	13.9	1.0	11.0	2.1	16	0.2	0.8	3.7	81	0.18	0.044
1457528	Soil		6.0	21.0	15.3	43	0.2	17.6	12.1	402	3.49	14.6	4.2	35.3	8.4	49	0.3	0.9	2.3	56	0.33	0.073
1458570	Soil		1.1	23.3	12.8	51	0.1	24.8	11.4	517	3.26	16.3	1.2	33.4	3.8	18	0.2	0.5	1.7	74	0.22	0.054
1458573	Soil		5.0	21.3	33.5	50	0.5	14.9	6.8	241	3.32	34.5	1.1	18.0	3.7	39	0.5	1.0	2.8	81	0.21	0.034
1457527	Soil		3.0	26.3	19.9	50	0.4	20.3	15.4	497	3.30	30.5	3.0	27.7	5.7	98	0.3	1.0	2.8	59	0.43	0.065
1458264	Soil		3.3	28.4	22.0	64	0.3	23.0	13.7	683	3.22	20.2	2.2	6.2	4.8	74	0.4	1.2	0.8	67	0.75	0.067
1458259	Soil		2.0	24.0	20.0	66	0.3	21.0	12.6	625	3.38	50.6	2.1	10.6	4.3	81	0.6	4.5	3.6	69	0.37	0.060
1457799	Soil		1.2	20.2	8.6	63	<0.1	23.5	9.6	488	2.98	8.7	1.0	4.2	1.9	20	0.2	0.5	0.5	67	0.19	0.049
1458572	Soil		3.2	58.0	51.9	85	0.5	24.8	15.2	600	3.93	42.4	2.7	218.0	4.6	94	0.6	1.7	9.0	66	0.51	0.089
1456192	Soil		1.7	21.8	14.7	57	0.2	20.3	9.6	447	2.86	20.5	1.4	158.6	1.5	20	0.2	0.6	1.0	69	0.22	0.054
1458556	Soil		1.3	27.8	12.6	56	<0.1	27.2	11.5	478	3.28	21.1	0.9	10.3	3.4	16	0.2	0.5	3.5	75	0.21	0.038
1458569	Soil		3.9	38.6	18.2	59	0.5	23.8	13.7	732	3.09	22.4	3.5	11.7	3.6	47	0.3	0.7	1.6	66	0.53	0.088
1457529	Soil		7.2	19.5	80.0	126	0.7	17.9	11.4	610	3.26	13.1	4.5	15.4	9.8	68	2.2	1.6	0.9	46	0.50	0.090
1456184	Soil		4.2	36.9	31.3	70	0.2	22.2	14.0	536	3.12	72.8	3.7	16.9	5.5	28	0.4	0.7	2.5	69	0.37	0.067
1456189	Soil		3.5	26.5	19.9	59	0.5	15.9	7.9	483	3.15	21.1	5.0	5.7	1.8	56	0.3	0.8	0.7	79	0.65	0.144
1458574	Soil		5.4	20.5	17.7	44	0.3	16.5	8.2	303	3.46	17.3	1.1	11.6	3.8	23	0.2	1.0	1.6	74	0.19	0.045
1457531	Soil		3.1	24.2	13.5	57	0.7	22.6	10.5	442	3.17	17.5	2.1	6.0	2.7	25	0.2	1.3	0.6	65	0.25	0.073
1456187	Soil		1.6	37.9	12.1	53	0.2	25.7	11.3	639	2.85	11.2	1.5	27.9	4.0	23	0.2	0.5	1.8	71	0.29	0.045
1457526	Soil		2.6	33.7	22.8	48	0.3	20.9	10.4	321	3.71	21.2	2.0	23.3	3.7	39	0.3	0.8	3.3	77	0.27	0.048



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
1458553	Soil	8	32	0.57	94	0.080	2	1.67	0.011	0.08	0.2	0.03	3.3	0.2	<0.05	7	<0.5	<0.2
1458560	Soil	8	32	0.65	111	0.103	2	2.54	0.012	0.10	0.2	0.04	3.8	0.3	<0.05	5	<0.5	<0.2
1458563	Soil	10	37	0.56	79	0.075	2	2.31	0.009	0.06	0.3	0.06	3.0	0.1	0.05	6	<0.5	<0.2
1458559	Soil	10	38	0.64	101	0.094	3	2.46	0.010	0.07	0.2	0.04	3.8	0.2	<0.05	8	<0.5	<0.2
1458571	Soil	18	28	0.44	212	0.027	2	1.91	0.009	0.10	0.1	0.05	2.6	0.2	0.09	6	<0.5	<0.2
1458565	Soil	12	25	0.58	136	0.048	1	2.58	0.039	0.09	0.2	0.03	3.2	0.2	<0.05	5	<0.5	<0.2
1458558	Soil	20	28	0.61	227	0.047	2	2.23	0.014	0.19	0.2	0.03	2.6	0.5	0.09	8	<0.5	0.2
1458557	Soil	14	34	0.81	137	0.087	2	2.52	0.012	0.15	0.1	0.03	4.8	0.4	<0.05	7	<0.5	<0.2
1458567	Soil	12	32	0.62	108	0.091	2	1.97	0.020	0.09	0.4	0.03	3.7	0.2	<0.05	6	<0.5	0.5
1458566	Soil	9	35	0.48	90	0.069	2	1.94	0.010	0.06	0.2	0.06	2.7	0.2	0.06	8	<0.5	<0.2
1458255	Soil	10	32	0.58	97	0.084	2	1.73	0.014	0.07	0.4	0.03	3.4	0.1	<0.05	5	<0.5	<0.2
1458254	Soil	10	37	0.45	65	0.076	2	1.75	0.009	0.05	0.3	0.06	2.8	0.1	<0.05	7	<0.5	<0.2
1457528	Soil	15	25	0.59	127	0.050	1	1.84	0.020	0.10	0.2	0.01	3.6	0.1	0.10	5	0.6	0.2
1458570	Soil	10	35	0.56	90	0.084	2	2.07	0.010	0.07	0.2	0.05	3.3	0.1	<0.05	6	<0.5	<0.2
1458573	Soil	9	26	0.32	78	0.072	2	1.55	0.007	0.09	0.1	0.05	2.6	0.2	<0.05	9	<0.5	0.3
1457527	Soil	12	28	0.50	102	0.065	2	2.27	0.013	0.09	0.2	0.06	3.0	0.2	0.05	6	<0.5	0.4
1458264	Soil	11	32	0.55	111	0.068	1	3.04	0.016	0.09	0.1	0.05	3.6	0.2	<0.05	8	<0.5	<0.2
1458259	Soil	13	32	0.62	105	0.072	2	1.86	0.013	0.07	0.2	0.04	3.4	0.2	<0.05	6	<0.5	<0.2
1457799	Soil	8	33	0.52	99	0.076	2	1.88	0.010	0.06	0.2	0.04	2.9	0.1	<0.05	6	<0.5	<0.2
1458572	Soil	11	29	0.63	124	0.058	2	2.26	0.010	0.12	0.2	0.04	3.6	0.3	<0.05	7	0.6	0.8
1456192	Soil	8	31	0.47	87	0.071	2	1.81	0.011	0.07	0.1	0.08	2.9	0.2	0.06	6	<0.5	<0.2
1458556	Soil	9	36	0.62	83	0.103	1	2.47	0.009	0.09	0.4	0.04	3.9	0.3	<0.05	6	<0.5	<0.2
1458569	Soil	15	32	0.62	148	0.061	2	2.24	0.019	0.11	0.2	0.07	4.2	0.2	0.06	7	0.7	<0.2
1457529	Soil	16	25	0.44	468	0.043	2	1.38	0.016	0.12	0.1	0.04	4.4	0.2	0.10	4	0.7	<0.2
1456184	Soil	11	30	0.64	122	0.091	2	2.01	0.016	0.10	0.4	0.02	3.8	0.3	<0.05	6	<0.5	<0.2
1456189	Soil	29	33	0.57	316	0.037	3	2.21	0.010	0.10	0.1	0.05	3.7	0.3	0.15	8	<0.5	<0.2
1458574	Soil	8	30	0.39	72	0.089	2	2.05	0.009	0.06	0.2	0.05	3.2	0.1	<0.05	9	<0.5	<0.2
1457531	Soil	11	36	0.61	95	0.072	3	2.23	0.011	0.08	0.2	0.04	3.8	0.1	<0.05	7	<0.5	<0.2
1456187	Soil	13	37	0.62	100	0.095	3	2.18	0.014	0.07	0.3	0.03	4.2	0.2	<0.05	5	<0.5	<0.2
1457526	Soil	10	32	0.51	97	0.086	2	2.46	0.011	0.08	0.2	0.05	3.4	0.2	<0.05	8	<0.5	0.3



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**Project:** ROYAL  
**Report Date:** November 03, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
1458575	Soil	5.2	18.6	17.4	36	0.4	13.8	6.6	229	3.25	16.2	1.1	8.4	3.8	28	0.2	1.2	1.5	79	0.20	0.036
1457532	Soil	48.7	16.7	137.4	110	1.1	6.1	16.9	851	5.94	19.4	6.7	26.4	11.7	31	1.1	3.2	1.5	31	0.27	0.068
1456183	Soil	4.9	43.4	21.5	74	0.2	26.2	14.1	729	3.65	27.5	3.1	6.8	4.3	24	0.2	0.6	2.1	83	0.32	0.057
1458568	Soil	2.9	31.2	15.0	30	0.3	6.7	13.0	1425	3.31	13.3	4.5	46.9	11.3	98	0.1	0.5	4.5	31	0.93	0.063
1457534	Soil	16.4	31.7	16.2	55	1.5	21.9	11.8	440	3.26	18.4	3.7	18.5	5.0	38	0.2	1.8	1.3	68	0.30	0.063
1457533	Soil	3.4	27.7	13.3	50	0.6	21.0	11.9	418	3.10	12.7	3.4	42.8	4.3	41	0.3	0.7	1.3	67	0.33	0.055
1458578	Soil	2.1	27.4	21.3	65	0.6	22.0	12.4	767	3.06	68.1	1.5	15.6	1.7	26	0.3	1.3	3.6	69	0.32	0.063
1458583	Soil	2.9	36.8	36.3	59	0.5	21.6	14.3	465	3.46	53.4	2.7	78.8	2.4	116	0.2	1.1	6.6	67	0.51	0.085



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**Project:** ROYAL  
**Report Date:** November 03, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000371.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
1458575	Soil	8	29	0.31	73	0.087	1	2.11	0.008	0.05	0.2	0.05	3.0	0.2	<0.05	9	<0.5	<0.2
1457532	Soil	23	16	0.32	234	0.015	3	1.44	0.006	0.08	0.1	0.05	2.8	0.2	0.08	4	2.1	0.2
1456183	Soil	12	37	0.84	153	0.109	2	2.63	0.013	0.14	0.3	0.03	4.7	0.3	<0.05	8	<0.5	<0.2
1458568	Soil	34	8	0.35	181	0.001	<1	2.65	0.034	0.10	0.1	0.02	3.8	0.3	<0.05	5	<0.5	0.4
1457534	Soil	13	36	0.68	86	0.088	2	2.64	0.013	0.08	0.2	0.05	4.5	0.2	<0.05	7	<0.5	<0.2
1457533	Soil	13	33	0.60	82	0.089	2	2.46	0.014	0.08	0.2	0.03	4.2	0.2	<0.05	6	<0.5	<0.2
1458578	Soil	15	34	0.56	132	0.059	2	1.83	0.011	0.08	0.3	0.04	3.0	0.2	0.06	7	<0.5	<0.2
1458583	Soil	11	30	0.48	112	0.059	2	1.95	0.026	0.08	0.3	0.06	2.5	0.1	0.08	6	0.5	1.0



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# QUALITY CONTROL REPORT

WHI16000371.1

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1458138	Soil	1.1	34.1	11.4	79	<0.1	36.8	13.6	610	3.41	10.7	1.4	5.0	3.0	21	0.2	0.5	1.5	72	0.32	0.069
REP 1458138	QC	1.1	35.6	11.1	78	<0.1	36.3	13.7	612	3.45	10.4	1.4	1.6	3.1	21	0.2	0.6	1.5	74	0.32	0.068
1458518	Soil	3.4	50.5	18.1	57	0.2	26.0	20.2	557	4.03	26.4	5.5	9.7	9.6	31	0.3	0.6	3.6	76	0.32	0.078
REP 1458518	QC	3.4	51.1	18.7	57	0.3	26.5	20.5	563	4.13	27.0	5.7	8.1	9.9	32	0.3	0.8	3.5	77	0.32	0.090
1458589	Soil	2.2	22.6	51.1	104	0.2	19.4	10.0	536	3.70	18.0	1.4	4.3	2.9	22	0.4	1.9	1.0	84	0.14	0.054
REP 1458589	QC	2.2	22.2	51.0	105	0.2	19.8	9.4	523	3.61	17.0	1.4	4.8	2.7	21	0.4	1.8	1.0	82	0.14	0.055
1457799	Soil	1.2	20.2	8.6	63	<0.1	23.5	9.6	488	2.98	8.7	1.0	4.2	1.9	20	0.2	0.5	0.5	67	0.19	0.049
REP 1457799	QC	1.2	19.8	8.6	62	<0.1	22.4	9.2	487	2.93	8.6	0.9	3.5	1.9	20	0.2	0.6	0.6	67	0.19	0.046
Reference Materials																					
STD DS10	Standard	15.7	153.8	157.0	334	1.8	79.0	12.4	862	2.75	38.3	2.3	72.1	6.6	64	2.1	7.6	9.9	46	1.07	0.066
STD DS10	Standard	15.2	149.3	149.9	340	1.8	79.0	12.0	863	2.76	38.5	2.3	71.9	6.5	64	2.1	8.0	9.5	44	1.07	0.064
STD DS10	Standard	15.2	162.2	148.3	366	1.7	70.6	13.0	867	2.74	44.3	2.9	58.8	8.2	67	2.6	9.7	12.4	45	1.09	0.067
STD DS10	Standard	16.5	137.6	152.8	354	1.8	78.8	12.9	872	2.82	39.2	2.4	72.6	6.8	67	2.2	7.8	9.9	44	1.09	0.070
STD DS10	Standard	15.2	158.8	152.4	383	1.9	75.5	12.9	887	2.79	46.4	2.9	64.3	8.2	69	2.3	9.2	11.8	45	1.11	0.076
STD OXC129	Standard	1.3	24.8	5.5	40	<0.1	85.4	19.8	422	3.05	0.5	0.6	179.5	1.6	178	<0.1	<0.1	<0.1	53	0.69	0.087
STD OXC129	Standard	1.3	24.0	5.4	39	<0.1	81.9	18.6	404	2.95	<0.5	0.6	182.4	1.7	177	<0.1	<0.1	<0.1	50	0.66	0.096
STD OXC129	Standard	1.3	28.7	6.4	40	<0.1	77.2	20.3	422	3.03	0.6	0.7	199.3	2.0	198	<0.1	<0.1	<0.1	54	0.74	0.095
STD OXC129	Standard	1.4	23.9	5.5	40	<0.1	81.8	19.0	424	3.08	0.8	0.6	182.6	1.6	189	<0.1	<0.1	<0.1	53	0.73	0.088
STD OXC129	Standard	1.3	28.9	6.3	47	<0.1	76.7	20.0	425	3.06	<0.5	0.7	193.3	2.0	206	<0.1	<0.1	<0.1	53	0.80	0.106
STD DS10 Expected		15.1	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OXC129 Expected		1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	0.72	195	1.9					51	0.665	0.102
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: ROYAL  
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# QUALITY CONTROL REPORT

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1458138	Soil	12	39	0.74	137	0.102	2	2.89	0.015	0.09	0.3	0.05	4.1	0.3	<0.05	7	<0.5	<0.2
REP 1458138	QC	12	38	0.74	138	0.102	2	2.87	0.015	0.10	0.3	0.04	4.0	0.3	<0.05	7	<0.5	<0.2
1458518	Soil	16	33	0.68	167	0.114	3	2.89	0.020	0.12	0.6	0.04	4.7	0.3	<0.05	7	0.5	0.4
REP 1458518	QC	16	34	0.69	175	0.119	2	2.90	0.020	0.12	0.7	0.05	5.3	0.3	<0.05	7	0.6	0.3
1458589	Soil	11	34	0.52	83	0.076	2	2.44	0.010	0.07	0.1	0.06	3.1	0.2	<0.05	9	<0.5	<0.2
REP 1458589	QC	11	33	0.51	82	0.071	1	2.38	0.009	0.07	0.1	0.05	3.2	0.3	<0.05	9	<0.5	<0.2
1457799	Soil	8	33	0.52	99	0.076	2	1.88	0.010	0.06	0.2	0.04	2.9	0.1	<0.05	6	<0.5	<0.2
REP 1457799	QC	8	31	0.52	100	0.073	2	1.92	0.010	0.07	0.2	0.05	2.9	0.1	0.05	6	<0.5	<0.2
Reference Materials																		
STD DS10	Standard	17	58	0.77	330	0.071	7	1.07	0.075	0.34	3.1	0.27	2.8	5.1	0.28	4	2.3	4.9
STD DS10	Standard	15	59	0.77	338	0.072	7	1.06	0.068	0.34	3.3	0.27	2.9	5.1	0.28	4	2.5	4.9
STD DS10	Standard	19	57	0.76	355	0.083	6	1.10	0.074	0.34	3.4	0.28	3.1	5.2	0.27	5	1.6	4.9
STD DS10	Standard	16	61	0.78	374	0.076	7	1.10	0.072	0.34	3.3	0.27	3.1	5.3	0.28	5	2.4	5.1
STD DS10	Standard	19	57	0.79	348	0.085	6	1.14	0.074	0.35	3.4	0.28	3.7	5.3	0.27	5	2.1	4.8
STD OXC129	Standard	12	56	1.53	40	0.422	1	1.57	0.602	0.37	<0.1	<0.01	0.7	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	10	55	1.49	41	0.412	2	1.50	0.572	0.35	0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	54	1.53	52	0.401	1	1.64	0.604	0.37	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	10	58	1.53	43	0.419	1	1.59	0.598	0.37	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	53	1.55	51	0.391	<1	1.73	0.619	0.38	<0.1	<0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	0.3	3	5.1	0.29	4.5	2.3	5.01
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2