



BUREAU MINERAL LABORATORIES
VERITAS Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Fireweed Zinc Ltd.**
Suite 1020, 800 Pender Street
Vancouver British Columbia V5C 2V6 Canada

Submitted By: MacMillan Distribution List
Receiving Lab: Canada-Whitehorse
Received: June 25, 2018
Report Date: July 17, 2018
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI18000148.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ18-BV-004
P.O. Number
Number of Samples: 143

SAMPLE DISPOSAL

RTRN-PLP Return 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: Fireweed Zinc Ltd.
Suite 1020, 800 Pender Street
Vancouver British Columbia V5C 2V6
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS230	139	Dry at 60C sieve 100g to -230 mesh			WHI
SLBHP	4	Sort, label and box pulps			WHI
AQ250	143	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
SHP01	143	Per sample shipping charges for branch shipments			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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Page:

2 of 6

Part:

1 of 2

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3198249	Soil	7.89	57.24	40.98	25.2	1039	10.5	1.6	45	2.49	26.0	3.3	4.4	0.2	56.7	0.09	3.53	0.24	60	0.03	0.159
3198250	Soil	2.52	38.72	9.10	14.2	468	9.4	1.7	74	1.33	13.7	2.5	1.4	0.5	25.0	0.07	1.68	0.06	22	0.10	0.155
3198251	Soil	3.12	49.05	11.11	17.7	620	12.1	1.7	97	1.51	17.1	3.0	0.8	1.2	29.7	0.08	2.09	0.06	23	0.09	0.146
3198252	Soil	1.05	11.01	4.75	11.0	195	3.5	0.8	19	0.68	2.2	0.6	<0.2	<0.1	6.5	0.06	0.38	0.06	8	0.02	0.044
3198253	Soil	7.31	85.35	21.53	118.6	247	35.0	6.9	95	3.72	20.8	1.4	2.2	0.5	19.0	0.22	2.57	0.28	46	<0.01	0.098
3198254	Soil	4.49	39.55	19.62	27.4	339	8.6	1.5	37	1.29	12.1	1.3	2.9	<0.1	27.6	0.09	2.04	0.17	25	0.02	0.090
3198255	Soil	10.28	70.69	44.58	37.9	429	14.7	2.4	34	2.14	23.4	1.4	0.6	0.1	54.8	0.10	2.80	0.36	70	0.01	0.103
3198256	Soil	5.75	62.67	27.08	35.6	723	11.4	1.7	47	1.63	17.9	1.7	1.6	<0.1	37.1	0.10	2.78	0.24	30	0.02	0.095
3198257	Soil	7.78	71.54	42.92	33.9	2060	14.5	2.0	73	1.86	20.3	6.1	1.3	0.2	68.9	0.17	3.85	0.24	43	0.05	0.164
3198258	Soil	8.52	80.98	41.17	42.5	728	16.6	2.2	47	2.09	24.8	4.1	2.7	0.2	87.9	0.17	3.63	0.24	54	0.03	0.155
3198259	Soil	1.58	10.14	5.61	24.3	348	3.1	0.7	32	0.33	1.7	0.9	<0.2	<0.1	20.9	0.85	0.40	0.03	7	0.18	0.105
3198260	Rock Pulp	0.82	22.64	2.14	20.2	27	17.8	5.5	255	1.41	0.7	0.4	<0.2	2.9	30.7	0.04	0.05	<0.02	22	0.62	0.054
3198261	Soil	9.05	38.67	44.85	233.5	609	64.4	9.1	353	2.27	34.6	7.1	4.3	1.9	37.5	1.51	1.65	0.27	34	0.58	0.127
3198262	Soil	4.45	35.07	40.98	178.2	648	85.9	7.5	227	2.01	25.4	5.4	2.4	0.9	56.8	1.15	1.44	0.23	30	0.84	0.119
3198263	Soil	2.23	20.62	32.62	125.1	419	37.2	4.8	115	1.71	11.7	3.1	0.8	1.3	57.6	0.51	1.11	0.17	28	1.08	0.083
3198264	Soil	3.64	22.42	38.30	104.7	728	22.5	5.5	128	1.63	12.9	2.9	1.7	0.4	32.0	0.52	1.21	0.22	34	0.37	0.093
3198265	Soil	3.48	16.51	32.68	82.2	502	16.6	2.3	66	1.23	11.5	1.3	0.7	0.6	31.0	0.70	1.19	0.14	26	0.40	0.079
3198266	Soil	10.57	38.89	52.33	248.8	405	44.7	11.0	405	2.81	14.6	2.2	2.2	4.6	13.3	1.20	1.64	0.22	29	0.19	0.068
3198267	Soil	6.54	31.55	47.06	180.1	535	33.6	5.4	184	2.22	19.2	6.9	1.7	2.4	32.6	1.12	2.14	0.20	42	0.63	0.096
3198268	Soil	7.77	19.77	63.07	155.5	824	25.8	3.6	102	2.11	20.0	1.5	3.4	1.7	17.7	0.32	1.46	0.21	48	0.07	0.084
3198269	Soil	26.68	57.86	57.72	379.3	487	98.3	19.9	699	2.98	26.3	6.0	3.4	1.8	19.2	1.61	4.69	0.23	70	0.18	0.127
3198270	Soil	10.59	24.91	34.60	122.2	818	21.6	3.1	49	2.09	45.7	0.6	<0.2	0.5	6.1	0.19	2.79	0.22	48	<0.01	0.075
3198271	Soil	6.80	17.39	18.93	90.5	245	19.9	2.9	47	1.49	31.9	0.6	<0.2	0.1	4.7	0.25	1.70	0.30	51	<0.01	0.052
3198272	Soil	8.54	30.31	54.44	142.0	389	28.1	4.2	100	5.46	63.7	1.9	3.4	1.7	11.7	0.49	4.39	0.39	60	0.12	0.568
3198273	Soil	9.93	117.63	52.77	382.2	815	58.9	5.9	91	3.99	51.7	1.6	0.9	2.4	21.2	0.78	3.69	0.46	49	0.35	0.241
3198274	Soil	25.68	125.70	53.97	463.6	1241	133.7	21.4	601	3.30	31.9	6.9	2.2	2.6	23.0	4.28	7.10	0.23	61	0.35	0.212
3198275	Soil	13.04	67.70	25.58	539.8	1039	94.3	13.3	176	3.02	40.0	7.4	1.2	2.1	22.1	4.23	5.91	0.22	44	0.34	0.217
3198276	Soil	15.83	83.01	32.51	688.1	1474	109.2	13.6	144	3.19	38.0	11.0	0.6	3.0	27.5	4.89	6.19	0.30	58	0.42	0.229
3198277	Soil	8.46	19.41	21.37	51.4	406	10.9	3.4	209	6.51	67.9	8.7	1.8	7.4	16.3	0.20	3.11	3.78	43	0.17	0.118
3198278	Soil	9.95	21.75	25.02	55.9	429	10.2	3.5	211	7.33	68.2	10.7	2.2	7.0	17.7	0.22	3.21	3.03	45	0.16	0.141



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Page: 2 of 6

Part: 2 of 2

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
3198249	Soil	10.0	17.0	0.03	176.1	0.005	<20	0.57	0.004	0.07	<0.1	0.7	0.23	0.09	56	5.1	0.14	2.2
3198250	Soil	3.8	5.7	0.04	39.0	0.019	<20	0.92	0.024	0.04	<0.1	1.0	0.06	0.04	29	1.6	0.02	1.6
3198251	Soil	4.1	5.6	0.04	43.5	0.014	<20	1.02	0.018	0.03	<0.1	1.4	0.07	0.03	21	1.9	0.02	1.1
3198252	Soil	2.9	2.2	0.01	22.6	0.006	<20	0.50	0.021	0.02	<0.1	0.2	0.04	0.04	26	0.5	<0.02	2.6
3198253	Soil	19.4	7.1	0.01	66.6	0.007	<20	0.64	0.006	0.04	0.1	0.7	0.13	0.04	26	3.0	0.14	2.5
3198254	Soil	8.0	5.7	<0.01	59.4	0.003	<20	0.57	0.014	0.05	<0.1	0.2	0.09	0.05	42	2.2	0.07	2.2
3198255	Soil	15.3	9.6	<0.01	119.2	0.004	<20	0.38	0.003	0.07	<0.1	0.4	0.14	0.05	28	3.9	0.18	2.2
3198256	Soil	10.3	7.4	0.01	71.6	0.003	<20	0.54	0.010	0.04	<0.1	0.3	0.11	0.05	58	3.2	0.12	1.9
3198257	Soil	9.0	14.9	0.02	130.0	0.003	<20	0.41	0.004	0.10	<0.1	0.8	0.19	0.12	135	5.1	0.14	1.2
3198258	Soil	10.4	14.2	0.01	121.6	0.002	<20	0.43	0.004	0.06	<0.1	0.4	0.13	0.09	75	5.1	0.15	1.4
3198259	Soil	1.4	3.7	0.02	43.7	0.002	<20	0.23	0.021	0.05	<0.1	0.2	0.13	0.08	30	1.0	<0.02	0.7
3198260	Rock Pulp	16.3	27.0	0.46	55.5	0.071	<20	0.78	0.081	0.14	<0.1	2.7	0.06	<0.02	<5	<0.1	<0.02	2.6
3198261	Soil	14.4	13.9	0.17	133.4	0.008	<20	0.83	0.007	0.07	<0.1	1.5	0.27	0.07	98	1.9	0.05	2.4
3198262	Soil	9.2	10.8	0.17	184.8	0.007	<20	0.89	0.009	0.07	<0.1	1.3	0.21	0.09	109	1.8	0.04	2.2
3198263	Soil	11.2	13.3	0.30	229.4	0.010	<20	0.91	0.006	0.07	0.3	1.2	0.16	0.07	79	1.7	0.04	2.5
3198264	Soil	10.6	12.3	0.17	253.2	0.008	<20	0.86	0.007	0.10	0.2	1.1	0.20	0.06	109	2.3	0.05	2.9
3198265	Soil	9.9	11.6	0.15	334.5	0.006	<20	0.62	0.011	0.07	<0.1	0.9	0.17	0.05	82	2.0	0.06	2.2
3198266	Soil	20.0	11.0	0.13	222.2	0.007	<20	0.62	0.002	0.05	<0.1	2.8	0.35	<0.02	106	1.0	0.06	1.6
3198267	Soil	13.2	15.5	0.27	451.8	0.006	<20	0.96	0.004	0.12	0.1	1.8	0.27	0.05	119	2.5	0.07	2.6
3198268	Soil	15.6	14.7	0.13	236.0	0.006	<20	0.83	0.005	0.12	<0.1	1.4	0.28	0.02	133	1.5	0.06	2.5
3198269	Soil	13.7	13.9	0.12	174.8	0.005	<20	0.63	0.003	0.09	<0.1	1.7	0.48	0.07	115	3.4	0.11	1.7
3198270	Soil	13.0	6.0	0.01	55.5	0.008	<20	0.30	0.008	0.04	0.1	0.6	0.17	<0.02	19	1.7	0.08	2.6
3198271	Soil	18.9	7.0	0.02	50.3	0.007	<20	0.40	0.003	0.03	0.3	0.4	0.17	<0.02	7	1.2	0.07	4.3
3198272	Soil	14.2	30.8	0.11	85.2	0.019	<20	1.27	0.002	0.05	0.3	1.3	0.21	0.04	54	3.3	0.08	5.5
3198273	Soil	15.1	12.7	0.13	181.0	0.015	<20	0.96	0.003	0.06	0.2	1.7	0.28	<0.02	27	4.5	0.09	4.7
3198274	Soil	13.7	13.2	0.10	160.8	0.004	<20	0.43	0.002	0.09	<0.1	2.0	0.46	0.11	191	6.3	0.15	1.1
3198275	Soil	12.6	11.9	0.11	158.8	0.005	<20	0.87	0.009	0.06	0.1	2.0	0.40	0.02	217	1.5	0.10	1.5
3198276	Soil	17.2	16.2	0.18	212.8	0.003	<20	0.80	0.003	0.07	0.1	2.7	0.44	<0.02	252	1.6	0.11	1.6
3198277	Soil	29.4	13.7	0.30	242.9	0.034	<20	1.64	0.009	0.18	4.3	3.0	0.53	0.07	50	4.5	0.06	5.8
3198278	Soil	28.9	14.6	0.29	307.7	0.034	<20	1.67	0.009	0.19	3.4	3.1	0.55	0.09	55	5.5	0.06	6.0



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3 of 6

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.5	0.01	0.02	0.02	1	0.01	0.001
3198279	Soil	7.96	19.42	33.18	56.3	294	11.7	2.8	88	5.40	47.8	1.1	<0.2	5.4	11.7	0.08	2.75	0.56	93	0.01	0.120
3198280	Soil	7.68	20.09	28.93	56.8	217	9.8	2.4	75	5.38	42.2	1.1	0.8	3.8	9.3	0.09	2.82	0.44	75	<0.01	0.118
3198281	Soil	6.28	12.51	19.56	39.8	187	7.6	1.7	41	2.47	29.4	0.7	<0.2	2.3	7.4	0.05	1.58	0.34	66	<0.01	0.077
3198282	Soil	3.76	7.25	12.34	29.6	178	5.2	1.3	23	1.21	14.8	0.5	<0.2	0.5	4.1	0.02	1.16	0.15	27	<0.01	0.043
3198283	Soil	6.53	19.63	23.66	79.5	757	22.2	4.1	100	3.54	31.5	1.2	2.7	4.1	15.7	0.12	2.55	0.27	34	0.03	0.118
3198284	Soil	5.03	14.69	31.14	46.4	953	9.0	2.5	92	6.09	51.3	1.1	1.7	4.2	9.5	0.08	2.15	0.64	60	0.01	0.175
3198285	Soil	7.24	24.24	19.59	98.2	359	20.4	5.2	147	2.75	33.2	1.1	1.3	0.3	11.4	0.25	2.61	0.32	38	0.02	0.121
3198286	Soil	0.12	3.03	0.99	1.7	625	0.5	0.3	5	0.14	0.3	0.2	0.6	<0.1	3.9	0.01	0.05	0.02	4	0.02	0.017
3198287	Soil	4.39	10.00	9.08	19.2	100	3.3	0.7	13	0.57	4.5	1.0	1.0	<0.1	7.3	0.22	0.56	0.17	21	0.01	0.043
3198288	Soil	2.71	8.37	7.81	13.0	411	2.0	0.6	16	0.49	6.8	0.7	1.5	0.1	5.4	0.11	0.47	0.31	18	0.01	0.026
3198289	Soil	3.64	7.47	5.96	21.2	60	4.1	0.9	16	0.54	7.2	0.4	0.3	0.3	4.5	0.06	0.68	0.16	25	<0.01	0.016
3198290	Soil	15.29	23.68	30.48	70.9	333	17.4	3.2	126	5.04	63.7	1.9	2.3	1.9	14.2	0.24	5.03	0.65	140	0.04	0.223
3198291	Soil	4.05	13.27	9.93	29.3	251	6.7	1.2	27	0.57	5.5	1.3	0.7	<0.1	11.0	0.43	0.54	0.22	19	0.03	0.061
3198292	Soil	7.04	11.74	10.11	59.5	354	13.6	2.4	35	1.06	14.6	1.2	0.7	0.1	8.9	0.48	1.16	0.23	36	0.08	0.039
3198293	Soil	9.70	23.02	19.07	470.3	638	45.7	7.1	282	3.49	31.7	1.7	1.0	2.6	5.7	2.38	3.32	0.19	121	0.06	0.056
3198294	Soil	23.05	39.20	26.93	918.9	1118	78.7	11.3	339	2.85	47.2	3.7	1.3	3.4	8.2	7.34	6.89	0.22	87	0.16	0.079
3198295	Soil	21.30	94.57	43.00	427.5	1605	174.2	13.5	377	3.70	41.5	4.5	4.3	5.9	14.6	3.85	10.98	0.25	69	0.42	0.240
3198296	Soil	7.20	12.99	19.77	48.3	390	10.2	2.2	58	2.31	22.2	0.8	1.2	0.4	14.5	0.06	2.00	0.26	44	0.01	0.065
3198297	Soil	9.48	19.23	23.81	46.7	394	9.7	2.1	75	3.76	27.1	1.0	0.9	1.6	12.3	0.13	4.04	0.43	119	0.02	0.100
3198298	Soil	5.62	10.27	11.45	24.5	502	4.0	1.0	27	1.30	13.4	0.6	0.8	<0.1	7.9	0.06	1.75	0.22	33	<0.01	0.052
3198299	Soil	14.44	23.49	41.44	55.1	1410	11.2	2.9	142	4.92	46.3	1.5	5.3	3.0	18.5	0.17	8.94	0.66	73	0.05	0.212
3198300	Rock Pulp	12.87	158.60	281.78	219.8	107	80.6	49.8	266	1.56	10.0	0.5	35.7	3.5	31.4	0.53	0.18	0.16	23	0.53	0.056
3198301	Soil	10.03	27.61	23.34	59.9	718	12.7	3.0	113	3.98	25.5	1.2	1.9	1.1	16.2	0.15	3.28	0.37	61	0.03	0.104
3198302	Soil	0.36	4.92	1.82	3.2	137	0.8	0.4	8	0.25	0.8	0.2	0.4	<0.1	5.7	0.03	0.12	0.03	5	0.02	0.025
3198303	Soil	10.87	21.07	24.09	54.6	756	11.7	3.0	177	4.38	28.0	1.3	1.8	0.7	13.1	0.14	3.39	0.44	75	0.04	0.141
3198304	Soil	6.37	15.53	13.58	35.3	288	6.6	1.7	38	1.50	13.5	0.8	0.3	<0.1	9.2	0.08	1.51	0.33	56	0.02	0.062
3198305	Soil	11.48	31.56	33.75	101.8	905	21.8	4.4	141	4.37	64.8	1.8	2.4	0.8	16.2	0.13	4.83	0.50	60	0.04	0.186
3198306	Soil	8.01	19.57	17.10	95.8	604	22.0	2.7	50	2.66	33.9	0.8	1.2	0.2	9.6	0.16	2.13	0.28	61	<0.01	0.083
3198307	Soil	9.00	19.29	22.92	74.2	452	16.3	2.6	62	2.24	36.9	1.0	0.9	1.3	13.7	0.10	2.53	0.46	67	0.01	0.085
3198308	Soil	4.26	7.51	11.23	25.7	344	4.6	1.1	20	0.87	12.6	0.5	0.9	<0.1	5.8	0.04	0.89	0.27	39	<0.01	0.030



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Project: MacMillan Pass

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Page: 3 of 6

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000148.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
3198279	Soil	19.4	22.0	0.13	204.4	0.038	<20	1.12	0.003	0.07	0.4	1.6	0.25	0.03	19	2.6	0.13	9.1
3198280	Soil	21.4	19.8	0.13	169.7	0.030	<20	1.11	0.004	0.07	0.3	1.4	0.19	0.03	21	2.3	0.11	8.7
3198281	Soil	24.1	8.6	0.03	112.9	0.021	<20	0.59	0.003	0.04	0.2	0.8	0.16	<0.02	16	1.1	0.09	6.1
3198282	Soil	18.6	3.8	0.02	56.2	0.008	<20	0.41	0.003	0.03	0.2	0.4	0.09	<0.02	35	0.8	0.05	3.0
3198283	Soil	17.2	24.4	0.22	229.6	0.008	<20	1.39	0.003	0.12	0.1	1.6	0.22	0.08	170	3.0	0.10	3.7
3198284	Soil	13.5	25.3	0.12	241.0	0.024	<20	1.82	0.007	0.10	0.6	1.6	0.23	0.08	58	2.8	0.11	10.2
3198285	Soil	11.4	15.2	0.15	83.4	0.009	<20	0.73	0.006	0.08	0.1	0.6	0.20	0.03	37	1.9	0.08	3.2
3198286	Soil	0.8	1.0	<0.01	9.4	0.008	<20	0.19	0.017	0.02	<0.1	0.1	<0.02	<0.02	14	<0.1	<0.02	0.8
3198287	Soil	10.2	4.9	0.02	88.5	0.005	<20	0.58	0.009	0.04	0.1	0.2	0.23	0.02	29	0.4	0.02	3.5
3198288	Soil	12.9	4.5	0.03	46.1	0.014	<20	0.42	0.006	0.04	0.3	0.3	0.15	<0.02	21	0.4	<0.02	3.6
3198289	Soil	20.6	4.6	0.01	40.6	0.010	<20	0.30	0.002	0.02	<0.1	0.3	0.17	<0.02	12	0.2	0.03	3.2
3198290	Soil	11.9	30.0	0.17	147.9	0.043	<20	1.15	0.003	0.07	0.3	1.6	0.37	0.06	60	3.8	0.16	8.4
3198291	Soil	8.8	6.7	0.03	103.4	0.004	<20	0.68	0.009	0.04	0.1	0.3	0.36	0.03	31	1.2	0.03	3.1
3198292	Soil	11.8	5.9	0.04	107.4	0.007	<20	0.49	0.006	0.03	0.1	0.3	0.19	<0.02	42	0.6	0.05	3.4
3198293	Soil	6.9	12.0	0.06	152.4	0.002	<20	1.19	0.003	0.03	<0.1	1.7	0.27	<0.02	140	2.2	0.06	2.9
3198294	Soil	6.9	8.7	0.04	159.7	0.001	<20	0.52	0.001	0.03	0.1	2.2	0.40	<0.02	321	2.9	0.07	0.9
3198295	Soil	10.1	11.4	0.04	117.7	0.002	<20	0.35	0.001	0.07	0.2	4.1	0.47	<0.02	329	3.6	0.15	0.9
3198296	Soil	18.1	13.4	0.14	259.0	0.011	<20	0.73	0.005	0.06	0.1	0.6	0.21	0.06	50	3.2	0.07	4.3
3198297	Soil	18.1	22.3	0.12	1191.7	0.042	<20	0.85	0.004	0.06	0.3	1.2	0.32	0.10	52	4.7	0.11	8.2
3198298	Soil	10.4	6.4	0.03	246.0	0.010	<20	0.44	0.010	0.04	0.1	0.3	0.13	0.04	37	1.3	0.05	2.9
3198299	Soil	15.4	34.2	0.26	1732.1	0.031	<20	1.59	0.006	0.16	0.4	2.0	0.76	0.24	117	13.1	0.18	5.1
3198300	Rock Pulp	27.5	32.3	0.47	58.9	0.069	<20	0.79	0.081	0.11	<0.1	3.0	0.08	0.04	17	<0.1	<0.02	2.6
3198301	Soil	18.0	23.3	0.20	676.6	0.019	<20	1.33	0.007	0.08	0.3	1.1	0.35	0.09	73	5.7	0.09	6.0
3198302	Soil	1.3	1.5	0.01	72.9	0.008	<20	0.40	0.025	0.03	<0.1	0.1	0.03	0.03	23	0.2	<0.02	1.4
3198303	Soil	16.0	26.2	0.21	306.3	0.033	<20	1.29	0.008	0.08	0.2	1.3	0.33	0.09	48	5.3	0.09	7.5
3198304	Soil	15.7	10.2	0.04	144.4	0.012	<20	0.64	0.010	0.04	0.2	0.3	0.17	0.04	35	1.4	0.06	5.5
3198305	Soil	17.3	21.9	0.17	227.9	0.012	<20	0.96	0.004	0.10	0.1	1.0	0.31	0.07	34	6.3	0.14	3.9
3198306	Soil	12.5	12.5	0.08	81.6	0.005	<20	0.79	0.006	0.07	0.1	0.5	0.22	0.03	30	2.1	0.09	3.9
3198307	Soil	14.5	12.1	0.06	95.1	0.018	<20	0.51	0.005	0.05	0.2	1.0	0.25	0.03	43	2.5	0.10	3.8
3198308	Soil	17.7	6.0	0.02	61.8	0.007	<20	0.34	0.005	0.03	0.1	0.2	0.17	<0.02	17	0.6	0.05	3.8



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Page:

4 of 6

Part:

1 of 2

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WHI18000148.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3199254	Soil	8.91	56.70	41.85	29.5	752	9.9	1.4	45	2.46	31.5	2.8	2.9	<0.1	34.2	0.08	4.48	0.29	66	0.02	0.154
3199255	Soil	5.74	45.24	30.47	27.0	650	8.0	1.5	84	1.90	19.3	2.5	3.4	<0.1	27.6	0.05	2.52	0.25	43	0.04	0.135
3199256	Soil	10.01	73.92	53.73	55.9	877	15.2	2.3	85	3.00	32.3	3.3	6.3	0.2	45.7	0.08	3.96	0.38	72	0.03	0.180
3199257	Soil	5.24	59.44	29.29	75.3	561	18.9	3.4	104	2.12	14.5	1.7	2.6	0.2	35.6	0.09	2.68	0.25	28	0.06	0.112
3199258	Soil	8.22	92.50	51.86	138.0	598	33.4	6.0	142	3.53	22.6	2.1	4.2	0.5	55.3	0.15	3.67	0.41	47	0.03	0.137
3199259	Soil	0.68	21.72	3.15	9.3	316	2.2	1.1	40	0.55	2.0	0.9	0.9	<0.1	9.8	0.05	0.39	0.06	9	0.09	0.062
3199260	Soil	1.09	25.21	4.46	9.5	426	2.3	0.7	19	0.61	2.4	1.3	1.1	<0.1	7.4	0.05	0.44	0.07	9	0.03	0.054
3199261	Soil	0.70	18.06	3.57	9.6	300	2.3	1.0	40	0.43	1.9	0.7	0.4	<0.1	10.2	0.03	0.38	0.04	7	0.08	0.056
3199262	Soil	10.90	47.32	25.64	111.0	694	29.6	3.1	87	1.81	20.7	1.5	2.0	<0.1	24.3	0.24	3.20	0.23	34	0.01	0.125
3199263	Soil	11.08	60.10	28.59	108.1	936	29.4	3.1	83	2.01	21.5	2.1	3.5	<0.1	30.1	0.25	3.50	0.24	33	0.02	0.183
3199264	Soil	0.17	3.89	0.78	1.4	133	0.4	0.2	5	0.15	0.6	0.7	0.2	<0.1	4.7	0.05	0.08	<0.02	3	0.02	0.052
3199265	Soil	0.75	12.55	3.76	6.6	359	1.6	0.5	22	0.39	1.9	1.1	1.9	<0.1	7.1	0.16	0.42	0.10	6	0.02	0.074
3199266	Soil	0.22	2.75	1.35	3.1	63	0.6	0.3	10	0.16	0.6	0.3	2.0	<0.1	8.3	0.06	0.07	0.08	3	0.07	0.045
3199267	Soil	0.96	10.39	5.45	8.5	277	2.1	0.7	84	0.41	2.2	0.9	1.3	<0.1	11.4	0.22	0.39	0.10	6	0.11	0.094
3199268	Soil	6.69	56.83	34.74	23.4	1073	10.1	1.4	57	2.07	26.8	3.5	5.5	0.4	42.6	0.09	5.03	0.24	40	0.04	0.136
3199269	Soil	6.56	46.94	42.13	22.5	949	9.4	1.2	35	1.75	23.4	2.9	4.0	0.2	48.0	0.07	3.72	0.28	42	0.03	0.134
3199270	Soil	0.42	11.18	4.70	3.2	195	1.1	0.3	11	0.31	3.1	1.0	<0.2	<0.1	8.1	0.03	0.29	0.08	8	0.05	0.049
3199271	Soil	9.64	16.49	16.00	213.1	331	18.8	3.7	110	1.69	10.3	0.8	<0.2	<0.1	11.5	0.10	1.45	0.16	33	0.02	0.084
3199272	Soil	8.72	49.84	28.80	359.5	521	55.9	8.6	187	2.85	17.9	3.9	6.2	1.4	31.1	0.34	3.18	0.26	49	0.08	0.112
3199273	Soil	3.90	14.74	30.83	47.1	224	8.2	1.0	25	0.97	10.8	0.5	0.5	0.6	16.9	0.09	1.66	0.11	19	0.04	0.047
3199274	Soil	2.08	9.01	28.21	40.5	257	7.0	2.3	93	0.64	5.3	0.6	0.2	0.2	16.9	0.08	0.59	0.11	15	0.18	0.050
3199275	Soil	0.73	12.48	12.16	15.6	419	3.4	6.0	109	0.30	2.5	1.0	<0.2	<0.1	10.4	0.11	0.23	0.05	6	0.11	0.035
3199276	Soil	1.43	31.34	24.83	52.2	853	17.3	6.7	86	0.66	5.9	9.3	1.4	0.2	29.2	0.21	0.65	0.10	13	0.48	0.092
3199277	Soil	3.47	48.17	53.75	124.9	1068	32.1	15.6	200	1.37	14.7	15.1	1.8	0.7	39.8	0.43	1.25	0.23	27	0.60	0.130
3199278	Soil	5.11	33.26	68.19	129.1	817	30.2	4.5	206	2.17	20.1	15.7	3.3	2.0	44.0	0.35	1.77	0.27	43	0.65	0.106
3199279	Soil	5.92	29.89	56.49	166.9	706	27.1	4.4	269	2.11	21.0	5.5	2.6	2.5	29.1	0.51	1.83	0.21	41	0.36	0.099
3199280	Rock Pulp	0.62	22.68	1.97	18.9	30	16.2	5.5	248	1.37	0.8	0.4	1.2	2.8	27.9	0.02	0.05	0.02	21	0.59	0.056
3199281	Soil	10.39	42.51	152.49	304.5	1369	36.4	5.3	326	2.59	27.7	6.2	3.7	2.5	30.1	1.24	3.35	0.23	44	0.42	0.100
3199282	Soil	8.94	18.90	54.88	134.5	661	21.1	2.4	171	1.79	18.6	2.6	1.8	1.1	16.0	0.44	1.35	0.22	44	0.12	0.080
3199283	Soil	3.94	19.14	32.81	62.7	1357	13.4	1.4	48	0.97	8.0	2.7	2.8	0.1	13.0	0.35	0.90	0.14	29	0.07	0.082



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Page: 4 of 6

Part: 2 of 2

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
3199254	Soil	8.8	15.7	0.04	126.9	0.001	<20	0.51	0.006	0.07	<0.1	0.3	0.24	0.12	50	5.0	0.13	2.2
3199255	Soil	8.7	12.2	0.03	77.0	0.005	<20	0.73	0.011	0.06	<0.1	0.4	0.18	0.06	40	3.0	0.09	2.8
3199256	Soil	15.7	18.2	0.04	138.3	0.004	<20	0.66	0.008	0.08	<0.1	0.5	0.27	0.09	42	5.2	0.17	2.7
3199257	Soil	14.1	7.7	0.03	85.2	0.007	<20	0.62	0.013	0.05	<0.1	0.7	0.13	0.05	38	2.9	0.09	1.9
3199258	Soil	22.2	9.9	0.03	120.8	0.004	<20	0.54	0.008	0.07	<0.1	0.9	0.16	0.07	30	4.1	0.16	1.9
3199259	Soil	3.2	2.8	0.02	20.8	0.013	<20	0.83	0.022	0.03	<0.1	0.4	0.03	0.03	37	0.5	<0.02	1.5
3199260	Soil	3.0	3.5	0.02	27.3	0.007	<20	0.80	0.021	0.03	<0.1	0.2	0.04	0.03	50	0.8	<0.02	2.2
3199261	Soil	2.8	2.0	0.02	33.4	0.010	<20	0.55	0.022	0.03	<0.1	0.4	0.04	<0.02	24	0.4	<0.02	1.0
3199262	Soil	10.7	7.0	0.04	66.1	<0.001	<20	0.41	0.009	0.05	<0.1	0.2	0.15	0.07	46	2.7	0.12	1.7
3199263	Soil	10.1	8.2	0.03	93.2	<0.001	<20	0.46	0.008	0.07	<0.1	0.2	0.14	0.10	54	3.2	0.11	1.5
3199264	Soil	<0.5	1.3	<0.01	8.8	0.002	<20	0.17	0.018	0.03	<0.1	<0.1	<0.02	0.03	27	0.3	<0.02	0.5
3199265	Soil	1.6	2.7	0.01	23.9	0.002	<20	0.36	0.019	0.02	<0.1	<0.1	0.03	0.05	39	0.9	<0.02	1.2
3199266	Soil	<0.5	1.2	0.02	14.3	0.002	<20	0.16	0.024	0.03	<0.1	<0.1	<0.02	0.03	11	0.4	<0.02	0.8
3199267	Soil	1.7	3.1	0.02	37.8	0.001	<20	0.45	0.020	0.04	<0.1	<0.1	0.03	0.09	33	1.4	0.02	2.1
3199268	Soil	9.6	13.0	0.04	147.8	0.005	<20	0.53	0.009	0.06	<0.1	0.9	0.23	0.08	58	5.2	0.12	2.0
3199269	Soil	10.7	13.6	0.04	142.3	0.002	<20	0.41	0.004	0.06	<0.1	0.3	0.21	0.09	46	4.5	0.11	1.9
3199270	Soil	2.6	3.4	0.02	21.0	0.007	<20	0.69	0.019	0.02	<0.1	0.2	0.06	0.02	20	0.6	<0.02	1.9
3199271	Soil	5.0	5.5	0.02	68.2	0.003	<20	0.41	0.016	0.04	<0.1	0.1	0.14	0.03	19	1.1	0.05	2.4
3199272	Soil	15.2	16.6	0.19	126.0	0.017	<20	0.71	0.007	0.08	<0.1	1.6	0.35	0.05	52	2.8	0.11	2.8
3199273	Soil	9.4	4.5	0.02	76.5	0.006	<20	0.23	0.011	0.04	<0.1	0.5	0.14	0.03	14	1.1	0.04	1.4
3199274	Soil	5.3	4.8	0.05	121.7	0.005	<20	0.37	0.019	0.05	<0.1	0.4	0.12	0.03	9	0.6	0.02	1.6
3199275	Soil	1.3	2.3	0.03	43.7	0.008	<20	0.23	0.029	0.02	<0.1	0.3	0.03	0.03	26	0.7	<0.02	1.1
3199276	Soil	4.7	4.5	0.08	129.1	0.010	<20	0.69	0.029	0.04	<0.1	0.6	0.09	0.05	54	1.4	<0.02	2.1
3199277	Soil	7.7	10.1	0.13	255.8	0.006	<20	1.02	0.020	0.08	<0.1	1.2	0.20	0.07	94	2.3	0.03	2.9
3199278	Soil	12.4	16.1	0.19	498.4	0.005	<20	0.97	0.006	0.13	<0.1	2.1	0.25	0.07	168	2.4	0.07	2.8
3199279	Soil	15.7	14.9	0.19	614.4	0.004	<20	0.81	0.006	0.11	<0.1	2.0	0.24	0.04	141	2.3	0.06	2.3
3199280	Rock Pulp	15.5	26.3	0.44	53.6	0.066	<20	0.71	0.074	0.11	<0.1	2.5	0.06	<0.02	<5	<0.1	<0.02	2.5
3199281	Soil	16.9	15.5	0.19	481.5	0.006	<20	0.84	0.006	0.11	<0.1	2.1	0.26	0.03	333	2.6	0.08	2.5
3199282	Soil	14.2	12.1	0.11	398.1	0.004	<20	0.73	0.007	0.11	<0.1	1.2	0.24	0.02	121	1.2	0.06	2.5
3199283	Soil	5.9	8.6	0.06	353.0	0.004	<20	0.55	0.013	0.07	<0.1	0.6	0.23	0.04	145	0.9	0.03	2.0



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Project:

MacMillan Pass

Report Date:

July 17, 2018

Page:

5 of 6

Part:

1 of 2

CERTIFICATE OF ANALYSIS

WHI18000148.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3199284	Soil	5.76	22.86	49.38	100.5	1003	17.4	4.9	309	1.57	17.6	3.2	1.9	0.8	19.0	0.87	1.20	0.27	44	0.14	0.098
3199285	Soil	7.87	27.91	51.37	114.9	2358	22.7	5.6	277	1.56	14.5	4.6	2.6	0.2	20.8	1.70	1.30	0.30	57	0.15	0.156
3199286	Soil	7.46	30.02	51.90	220.7	817	31.0	4.0	242	1.92	18.3	4.4	2.3	1.3	24.1	0.89	1.67	0.24	44	0.30	0.089
3199287	Soil	10.79	64.39	97.84	165.7	477	42.6	14.0	205	3.62	34.9	2.9	2.6	1.2	15.0	0.43	4.79	0.68	29	0.10	0.141
3199288	Soil	1.62	21.43	15.35	54.9	190	18.2	6.7	2265	5.29	17.3	0.7	0.3	1.3	26.1	0.52	1.03	0.13	14	1.75	0.057
3199289	Soil	6.87	26.23	34.07	159.4	470	32.9	4.1	98	3.16	60.5	1.9	2.5	4.1	14.5	0.43	2.66	0.23	47	0.21	0.292
3199290	Soil	8.19	36.77	45.22	201.1	603	41.8	5.3	115	2.80	44.4	2.3	1.9	5.5	12.9	0.49	2.97	0.21	43	0.16	0.168
3199291	Soil	8.83	25.66	45.58	206.0	377	35.3	5.4	154	2.96	43.2	1.4	0.7	1.5	10.5	0.51	2.73	0.26	55	0.10	0.164
3199292	Soil	46.58	234.47	47.39	864.4	2886	83.7	9.3	367	3.07	46.0	4.5	4.4	5.4	15.9	11.14	9.88	0.26	92	0.56	0.319
3199293	Soil	44.44	251.95	48.80	921.5	2243	95.3	7.5	153	2.99	50.2	4.8	5.9	6.1	21.9	10.11	11.76	0.29	86	0.78	0.389
3199294	Soil	4.98	43.47	22.45	354.1	2058	52.7	6.6	262	2.07	17.9	4.9	2.5	0.4	39.7	2.10	2.36	0.34	34	0.73	0.150
3199295	Soil	5.22	29.03	22.29	408.0	594	81.0	6.3	194	2.63	23.6	5.4	1.9	4.0	19.9	2.53	2.51	0.44	36	0.22	0.106
3199296	Soil	25.40	74.08	53.11	597.8	1493	123.0	16.2	511	3.42	35.4	3.2	2.4	4.7	75.8	5.14	9.34	0.20	41	4.98	0.107
3199297	Soil	19.53	97.44	46.53	563.0	1653	130.3	14.1	408	3.24	35.8	3.0	2.6	3.5	53.8	5.35	8.85	0.20	47	3.64	0.132
3199298	Soil	10.28	59.88	21.33	389.3	185	80.1	6.9	164	2.75	25.4	2.3	1.9	3.9	4.1	1.31	4.17	0.18	46	0.11	0.120
3199299	Soil	48.47	105.77	33.23	2438.5	2722	150.0	10.9	267	2.97	53.1	4.7	2.9	4.9	16.1	43.56	11.94	0.28	72	1.22	0.076
3199300	Soil	9.50	53.80	19.42	288.7	300	72.2	6.8	151	2.42	21.7	2.0	1.3	3.0	4.5	2.03	3.31	0.16	49	0.10	0.086
3199301	Soil	25.49	56.30	26.88	665.5	563	103.5	8.9	180	2.63	34.7	5.1	2.0	4.7	9.6	3.61	8.34	0.27	80	0.17	0.143
3199302	Soil	68.94	121.42	45.25	3052.0	1763	202.5	16.7	258	3.73	58.9	8.8	2.0	7.6	12.2	65.99	15.07	0.37	141	0.28	0.164
3199303	Soil	0.12	2.41	1.04	2.9	449	1.1	0.3	7	0.21	0.4	0.2	0.6	<0.1	5.0	0.09	0.09	0.03	4	0.02	0.015
3199304	Soil	4.41	17.90	19.78	58.8	516	7.4	1.5	26	1.28	12.1	0.7	5.1	0.2	10.2	0.24	2.09	0.26	29	0.01	0.049
3199305	Soil	1.33	34.07	6.21	17.1	2787	4.1	0.7	11	0.71	2.7	1.7	1.7	0.1	7.6	0.21	0.50	0.10	7	0.02	0.083
3199306	Soil	8.84	27.39	37.27	64.0	1011	13.8	3.6	115	8.31	44.2	1.4	3.2	4.4	11.8	0.15	3.75	0.66	84	0.02	0.126
3199307	Soil	5.90	15.78	14.52	44.0	484	9.0	2.4	49	1.97	26.2	0.8	0.6	1.6	6.7	0.09	1.78	0.44	78	<0.01	0.049
3199308	Soil	9.30	6.08	3.64	914.3	118	17.2	1.3	26	34.69	327.4	0.8	0.6	0.8	2.8	0.08	2.75	0.06	17	0.02	0.074
3199309	Soil	69.14	8.33	3.30	2652.3	147	23.1	3.0	48	>40	796.5	2.4	0.7	1.0	3.0	0.15	16.84	0.03	35	0.02	0.143
3199310	Soil	6.51	14.93	51.07	62.3	737	9.7	2.0	38	2.30	43.3	0.8	1.1	1.0	16.6	0.06	2.72	0.57	51	<0.01	0.086
3199311	Soil	6.94	18.90	29.03	77.8	930	12.3	2.8	107	3.71	43.3	1.2	2.4	1.8	19.1	0.08	3.46	0.39	48	0.03	0.212
3199312	Soil	0.17	1.27	1.07	4.6	332	0.4	0.2	5	0.16	1.1	0.1	<0.2	<0.1	4.7	0.01	0.06	<0.02	3	0.02	0.018
3199313	Soil	7.48	27.13	37.23	103.6	1087	17.3	3.3	87	4.86	37.3	1.3	5.0	1.8	16.0	0.12	3.46	0.38	53	0.01	0.162



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Project: MacMillan Pass

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Page: 5 of 6

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000148.1

	Method	Analyte	Unit	MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250			
					La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
					ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
					0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
3199284	Soil				12.1	13.2	0.12	487.8	0.004	<20	0.80	0.010	0.10	<0.1	1.2	0.29	0.03	229	1.8	0.05	2.6
3199285	Soil				9.8	14.0	0.11	532.2	0.003	<20	0.84	0.009	0.10	<0.1	0.7	0.39	0.10	204	1.9	0.06	2.8
3199286	Soil				13.6	13.3	0.13	375.0	0.005	<20	0.89	0.009	0.10	<0.1	1.6	0.28	0.03	154	1.7	0.08	2.5
3199287	Soil				16.1	11.0	0.11	144.6	0.004	<20	0.66	0.007	0.08	0.1	1.1	0.29	0.08	83	2.4	0.08	2.1
3199288	Soil				6.6	5.2	0.58	143.0	0.007	<20	0.48	0.026	0.04	<0.1	1.9	0.09	0.04	37	0.6	<0.02	1.0
3199289	Soil				20.6	21.7	0.16	101.5	0.006	<20	0.88	0.002	0.06	0.1	1.4	0.26	<0.02	70	1.4	0.07	2.5
3199290	Soil				21.7	23.4	0.20	133.7	0.004	<20	0.96	0.002	0.08	0.1	1.5	0.29	<0.02	113	1.7	0.07	1.9
3199291	Soil				15.8	15.6	0.12	112.6	0.005	<20	0.67	0.003	0.08	0.1	1.2	0.25	<0.02	15	1.5	0.08	2.7
3199292	Soil				11.8	10.4	0.06	117.3	0.008	<20	0.41	0.003	0.09	0.3	4.3	0.33	<0.02	261	5.5	0.39	1.2
3199293	Soil				10.8	10.8	0.04	163.0	0.005	<20	0.34	0.002	0.10	0.2	4.2	0.34	<0.02	294	6.3	0.66	1.0
3199294	Soil				14.3	17.6	0.21	397.1	0.016	<20	1.33	0.013	0.10	0.4	1.2	0.33	0.09	164	2.5	0.06	4.3
3199295	Soil				20.5	16.2	0.28	207.7	0.042	<20	1.48	0.009	0.15	0.5	2.2	0.48	0.04	94	1.8	0.06	5.3
3199296	Soil				5.5	8.6	2.35	88.9	0.001	<20	0.14	0.004	0.05	0.2	3.3	0.52	0.06	274	3.8	0.10	0.4
3199297	Soil				6.6	9.8	1.58	103.7	0.002	<20	0.19	0.003	0.06	0.2	3.0	0.48	0.05	281	4.2	0.10	0.5
3199298	Soil				12.6	7.3	0.03	63.7	0.001	<20	0.36	0.002	0.05	<0.1	1.4	0.17	<0.02	64	2.5	0.07	0.8
3199299	Soil				5.7	8.4	0.56	98.8	0.001	<20	0.21	0.002	0.04	0.2	3.4	0.51	0.02	778	7.5	0.16	0.4
3199300	Soil				13.1	7.5	0.03	138.3	0.001	<20	0.44	0.002	0.04	0.1	1.5	0.18	<0.02	70	1.9	0.06	1.1
3199301	Soil				10.9	9.8	0.07	68.9	0.007	<20	0.42	0.002	0.06	0.3	2.8	0.41	<0.02	239	3.8	0.10	1.3
3199302	Soil				8.2	11.0	0.03	151.2	0.003	<20	0.26	0.002	0.07	0.3	4.5	0.95	<0.02	1121	9.1	0.18	0.7
3199303	Soil				0.9	1.1	<0.01	14.5	0.008	<20	0.28	0.026	0.02	<0.1	<0.1	0.03	<0.02	40	<0.1	<0.02	0.9
3199304	Soil				11.7	5.4	0.01	138.3	0.007	<20	0.44	0.012	0.04	<0.1	0.4	0.14	0.04	26	1.5	0.07	2.7
3199305	Soil				4.6	4.4	0.03	301.5	0.006	<20	0.68	0.015	0.03	<0.1	0.4	0.23	0.07	129	1.5	0.02	1.3
3199306	Soil				16.3	36.9	0.19	252.9	0.047	<20	1.64	0.003	0.06	0.3	2.3	0.35	0.05	90	4.2	0.13	12.2
3199307	Soil				19.3	9.5	0.04	117.8	0.026	<20	0.64	0.007	0.03	0.2	0.8	0.22	<0.02	24	0.9	0.08	6.8
3199308	Soil				1.7	4.1	<0.01	71.1	0.015	<20	0.57	0.006	0.01	<0.1	0.6	0.05	0.13	12	3.7	<0.02	1.7
3199309	Soil				1.3	5.4	<0.01	107.5	0.004	<20	1.21	<0.001	<0.01	<0.1	1.2	0.04	0.18	24	4.6	<0.02	0.4
3199310	Soil				14.6	7.8	0.04	211.2	0.009	<20	0.46	0.003	0.06	0.2	0.6	0.28	0.07	10	2.2	0.11	5.1
3199311	Soil				16.0	18.5	0.12	237.0	0.009	<20	0.78	0.003	0.08	0.2	1.0	0.29	0.09	40	3.3	0.10	4.1
3199312	Soil				<0.5	0.8	<0.01	9.4	0.004	<20	0.12	0.020	0.02	<0.1	<0.1	<0.02	<0.02	19	<0.1	<0.02	0.4
3199313	Soil				17.2	19.8	0.14	238.0	0.011	<20	0.82	0.004	0.08	0.2	1.3	0.27	0.08	42	3.7	0.10	4.9



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Page: 6 of 6

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI18000148.1

	Method Analyte Unit MDL	AQ250 Mo ppm 0.01	AQ250 Cu ppm 0.01	AQ250 Pb ppm 0.01	AQ250 Zn ppm 0.1	AQ250 Ag ppb 2	AQ250 Ni ppm 0.1	AQ250 Co ppm 0.1	AQ250 Mn ppm 1	AQ250 Fe % 0.01	AQ250 As ppm 0.1	AQ250 U ppm 0.1	AQ250 Au ppb 0.2	AQ250 Th ppm 0.1	AQ250 Sr ppm 0.5	AQ250 Cd ppm 0.01	AQ250 Sb ppm 0.02	AQ250 Bi ppm 0.02	AQ250 V ppm 1	AQ250 Ca % 0.01	AQ250 P % 0.001
3199314	Soil	7.15	24.53	54.65	75.8	608	11.2	1.9	35	2.56	38.6	0.8	1.0	1.5	21.6	0.13	3.25	0.46	63	0.01	0.074
3199315	Soil	3.44	7.70	10.18	27.4	192	4.6	1.0	20	0.73	11.1	0.5	0.4	0.3	7.8	0.04	0.91	0.33	31	<0.01	0.023
3199316	Soil	6.15	11.95	27.63	40.7	341	8.6	2.1	59	2.68	35.7	0.7	1.3	3.4	10.3	0.05	1.90	0.60	104	0.02	0.102
3199317	Soil	7.33	20.54	23.34	78.5	537	17.3	4.5	137	5.49	39.0	1.2	2.6	5.5	12.9	0.12	3.13	0.42	77	0.03	0.168
3199318	Soil	0.05	0.93	0.42	1.0	1664	0.4	0.2	4	0.09	0.1	0.2	<0.2	<0.1	4.5	0.02	0.05	<0.02	2	0.02	0.016
3199319	Soil	10.64	15.86	23.25	95.2	434	17.1	2.9	95	2.98	29.2	0.9	0.4	3.4	11.0	0.24	1.51	0.38	89	0.03	0.048
3199320	Rock Pulp	11.76	152.94	262.10	208.2	97	75.4	49.1	254	1.55	9.7	0.4	33.5	3.3	31.6	0.52	0.18	0.15	23	0.54	0.053
3199321	Soil	3.20	5.34	10.27	17.2	124	3.5	0.8	19	0.57	7.0	0.5	1.3	0.5	8.1	0.12	0.27	0.23	36	0.02	0.021
3199322	Soil	12.98	25.56	38.34	70.4	337	14.1	2.5	60	2.98	84.7	1.1	2.6	1.9	14.0	0.15	4.36	0.55	96	0.01	0.103
3199323	Soil	5.45	9.02	7.77	30.3	46	5.2	1.2	15	0.77	13.0	0.5	1.2	0.5	5.4	0.03	1.16	0.14	36	<0.01	0.023
3199324	Soil	4.36	30.90	16.09	42.3	610	6.9	1.7	63	1.76	13.9	1.9	1.8	0.4	10.2	0.13	2.15	0.29	26	0.02	0.074
3199325	Soil	10.95	42.66	18.87	117.2	394	21.3	3.9	85	2.62	26.0	2.4	4.3	6.9	18.9	0.22	2.83	0.26	34	0.03	0.086
3199326	Soil	10.99	40.42	19.70	122.1	383	21.3	3.9	90	2.73	25.8	2.4	3.7	7.1	21.1	0.22	2.86	0.27	35	0.04	0.090
3199327	Soil	5.53	10.25	12.90	28.5	176	5.1	1.3	32	1.11	10.6	0.7	0.7	0.1	9.4	0.05	1.10	0.24	37	0.01	0.043
3199328	Soil	10.40	26.25	26.47	77.1	625	15.7	3.8	180	5.23	35.7	1.7	2.9	1.7	22.1	0.14	3.99	0.39	63	0.03	0.170
3199329	Soil	0.17	1.95	1.30	2.2	256	0.7	0.2	7	0.19	0.7	0.2	0.2	<0.1	5.1	0.03	0.06	0.02	3	0.02	0.021
3199330	Soil	8.44	17.42	33.24	62.5	547	14.0	3.7	157	5.21	56.8	1.2	1.1	0.3	17.9	0.10	2.63	0.46	79	0.03	0.157
3199331	Soil	6.47	16.75	22.24	67.2	1464	19.8	5.1	179	4.49	47.9	1.4	2.5	0.5	18.6	0.07	2.21	0.31	42	0.08	0.230
3199332	Soil	6.46	22.58	27.22	95.4	1050	27.0	7.3	158	4.28	52.3	1.7	2.9	6.5	26.2	0.12	2.87	0.32	38	0.14	0.229
3199333	Soil	1.45	7.34	5.26	12.4	260	2.6	0.7	17	0.57	4.9	0.3	0.4	<0.1	7.5	0.03	0.42	0.10	16	0.02	0.037
3199334	Soil	7.87	24.59	28.20	69.8	452	17.0	4.4	154	5.14	39.8	1.2	1.9	0.5	22.2	0.15	2.54	0.47	85	0.06	0.167
3199335	Soil	7.17	21.15	21.00	44.8	697	11.7	2.8	190	6.06	38.3	1.3	2.0	0.9	12.4	0.08	3.15	0.46	74	0.04	0.278
3199336	Soil	7.07	25.28	19.06	36.9	683	9.5	2.8	198	6.93	29.1	1.9	3.1	2.0	11.7	0.10	3.11	0.33	40	0.03	0.346



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Project: MacMillan Pass

Report Date: July 17, 2018

Page: 6 of 6

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000148.1

		Method	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02
3199314	Soil		18.2	7.7	0.03	158.7	0.018	<20	0.44	0.004	0.05	0.2	0.9	0.31	0.05	8	2.9	0.11
3199315	Soil		23.0	5.1	0.02	62.2	0.008	<20	0.37	0.004	0.03	<0.1	0.3	0.23	<0.02	15	0.4	0.04
3199316	Soil		17.3	13.0	0.07	120.7	0.047	<20	0.62	0.002	0.05	0.3	1.1	0.27	0.03	20	1.4	0.08
3199317	Soil		17.1	32.9	0.24	141.5	0.038	<20	1.12	0.003	0.07	0.3	2.1	0.30	0.04	48	3.1	0.10
3199318	Soil		<0.5	0.5	<0.01	15.4	0.005	<20	0.08	0.017	0.02	<0.1	0.2	0.02	<0.02	28	<0.1	<0.02
3199319	Soil		17.8	19.7	0.20	117.7	0.016	<20	1.21	0.003	0.08	0.2	1.8	0.40	<0.02	33	1.1	0.08
3199320	Rock Pulp		25.9	31.0	0.47	60.4	0.069	<20	0.79	0.083	0.11	<0.1	2.9	0.08	0.04	11	<0.1	<0.02
3199321	Soil		23.4	8.4	0.04	72.6	0.007	<20	0.65	0.004	0.04	<0.1	0.6	0.34	<0.02	24	0.2	0.03
3199322	Soil		17.2	16.1	0.07	156.0	0.019	<20	0.54	0.004	0.07	0.2	0.9	0.33	0.06	8	4.2	0.15
3199323	Soil		19.0	4.4	<0.01	43.4	0.007	<20	0.20	0.001	0.03	0.1	0.3	0.12	<0.02	7	0.6	0.06
3199324	Soil		11.8	11.8	0.16	144.5	0.018	<20	0.68	0.011	0.09	0.4	0.8	0.20	0.07	63	2.1	0.05
3199325	Soil		18.2	15.6	0.20	150.0	0.006	<20	0.86	0.002	0.11	0.1	2.1	0.25	0.02	109	2.8	0.09
3199326	Soil		17.0	15.6	0.19	176.8	0.008	<20	0.86	0.001	0.11	<0.1	2.4	0.25	0.03	112	3.1	0.10
3199327	Soil		21.7	7.3	0.03	301.8	0.008	<20	0.47	0.007	0.04	0.1	0.3	0.22	0.03	19	0.9	0.06
3199328	Soil		18.5	32.0	0.30	1685.4	0.019	<20	1.61	0.005	0.11	0.3	1.5	0.45	0.15	86	6.2	0.11
3199329	Soil		1.3	1.2	<0.01	98.7	0.004	<20	0.27	0.021	0.02	<0.1	<0.1	0.03	<0.02	14	<0.1	<0.02
3199330	Soil		16.6	28.1	0.19	589.0	0.015	<20	1.11	0.005	0.08	0.1	0.8	0.28	0.09	51	3.6	0.12
3199331	Soil		14.4	26.5	0.22	236.2	0.006	<20	1.25	0.004	0.08	0.1	0.8	0.29	0.09	110	3.5	0.10
3199332	Soil		19.9	26.2	0.32	359.8	0.020	<20	1.20	0.004	0.12	0.1	2.2	0.33	0.11	71	5.1	0.12
3199333	Soil		5.6	4.2	0.02	68.1	0.004	<20	0.48	0.016	0.03	<0.1	0.1	0.09	<0.02	13	0.3	<0.02
3199334	Soil		18.4	34.7	0.28	376.2	0.026	<20	1.58	0.004	0.10	0.2	1.3	0.31	0.07	40	3.6	0.09
3199335	Soil		12.4	51.7	0.28	2100.6	0.027	<20	1.71	0.004	0.12	0.3	1.6	0.31	0.15	57	5.5	0.09
3199336	Soil		11.7	71.9	0.19	2235.7	0.020	<20	2.17	0.003	0.11	0.2	1.8	0.26	0.17	106	6.0	0.06



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Page:

1 of 1

Part:

1 of 2

QUALITY CONTROL REPORT

WHI18000148.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
Pulp Duplicates																					
3198282	Soil	3.76	7.25	12.34	29.6	178	5.2	1.3	23	1.21	14.8	0.5	<0.2	0.5	4.1	0.02	1.16	0.15	27	<0.01	0.043
REP 3198282	QC	3.67	7.68	12.54	30.4	176	5.0	1.3	23	1.19	14.3	0.5	<0.2	0.5	4.3	0.04	1.14	0.14	26	<0.01	0.039
3199263	Soil	11.08	60.10	28.59	108.1	936	29.4	3.1	83	2.01	21.5	2.1	3.5	<0.1	30.1	0.25	3.50	0.24	33	0.02	0.183
REP 3199263	QC	10.97	58.97	28.39	107.4	932	29.2	3.0	87	2.00	21.6	2.1	2.6	<0.1	29.4	0.24	3.45	0.24	34	0.02	0.176
3199299	Soil	48.47	105.77	33.23	2438.5	2722	150.0	10.9	267	2.97	53.1	4.7	2.9	4.9	16.1	43.56	11.94	0.28	72	1.22	0.076
REP 3199299	QC	49.09	109.22	33.57	2614.6	2968	147.0	11.2	266	3.12	53.8	4.6	3.1	4.5	16.4	46.82	12.43	0.29	73	1.16	0.075
3199335	Soil	7.17	21.15	21.00	44.8	697	11.7	2.8	190	6.06	38.3	1.3	2.0	0.9	12.4	0.08	3.15	0.46	74	0.04	0.278
REP 3199335	QC	6.89	20.71	19.98	44.4	666	11.5	2.8	185	5.84	37.1	1.2	1.4	0.8	12.0	0.07	3.23	0.55	74	0.05	0.264
Reference Materials																					
STD DS11	Standard	13.95	149.48	138.56	315.9	1668	76.1	13.6	960	3.03	42.4	2.6	55.9	7.6	64.0	2.50	6.86	12.26	48	1.05	0.070
STD DS11	Standard	14.79	151.84	139.26	341.2	1801	78.6	14.4	1027	3.15	45.9	2.7	57.5	8.0	69.9	2.48	6.47	12.61	48	1.04	0.070
STD DS11	Standard	13.47	143.58	131.83	331.6	1695	73.5	12.8	953	2.97	40.6	2.5	55.5	7.2	63.9	2.31	6.99	12.00	46	1.00	0.071
STD DS11	Standard	14.39	148.70	135.32	338.0	1829	76.8	13.7	1047	3.18	42.5	2.7	61.1	7.6	66.0	2.38	6.81	12.70	49	1.06	0.078
STD OREAS45EA	Standard	1.61	678.20	14.01	28.5	256	382.5	51.4	397	20.80	10.9	1.7	51.6	9.6	3.6	<0.01	0.32	0.23	285	0.03	0.025
STD OREAS45EA	Standard	1.74	681.26	14.89	31.6	256	389.0	53.9	406	21.89	11.9	2.0	50.3	11.2	4.0	0.03	0.29	0.29	306	0.04	0.029
STD OREAS45EA	Standard	1.60	699.40	15.11	32.2	261	400.9	54.0	410	22.00	11.0	2.0	55.6	11.3	4.1	0.04	0.27	0.29	312	0.04	0.030
STD OREAS45EA	Standard	1.52	667.09	14.24	29.0	240	366.0	50.0	404	20.44	9.6	1.8	52.7	10.7	3.7	0.03	0.28	0.29	295	0.04	0.029
STD OREAS45EA Expected		1.6	709	14.3	31.4	260	381	52	400	22.65	11.4	1.73	53	10.7	4.05	0.03	0.32	0.26	303	0.036	0.029
STD DS11 Expected		13.9	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701
BLK	Blank	<0.01	0.05	<0.01	0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	0.02	0.02	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	0.03	<0.01	<0.1	3	0.4	<0.1	1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001



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Page:

1 of 1

Part:

2 of 2

QUALITY CONTROL REPORT

WHI18000148.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
Pulp Duplicates																		
3198282	Soil	18.6	3.8	0.02	56.2	0.008	<20	0.41	0.003	0.03	0.2	0.4	0.09	<0.02	35	0.8	0.05	3.0
REP 3198282	QC	17.9	3.8	0.01	57.6	0.009	<20	0.40	0.002	0.03	0.2	0.3	0.09	<0.02	32	1.0	0.04	2.9
3199263	Soil	10.1	8.2	0.03	93.2	<0.001	<20	0.46	0.008	0.07	<0.1	0.2	0.14	0.10	54	3.2	0.11	1.5
REP 3199263	QC	9.6	8.2	0.03	89.2	<0.001	<20	0.47	0.009	0.07	<0.1	0.2	0.13	0.10	62	3.1	0.11	1.4
3199299	Soil	5.7	8.4	0.56	98.8	0.001	<20	0.21	0.002	0.04	0.2	3.4	0.51	0.02	778	7.5	0.16	0.4
REP 3199299	QC	5.8	8.6	0.53	98.8	0.001	<20	0.20	0.002	0.04	0.2	3.3	0.50	0.03	865	7.5	0.14	0.4
3199335	Soil	12.4	51.7	0.28	2100.6	0.027	<20	1.71	0.004	0.12	0.3	1.6	0.31	0.15	57	5.5	0.09	6.6
REP 3199335	QC	12.2	49.4	0.31	2238.1	0.027	<20	1.66	0.003	0.12	0.2	1.7	0.29	0.15	64	5.3	0.06	6.5
Reference Materials																		
STD DS11	Standard	18.2	61.1	0.82	401.6	0.093	<20	1.13	0.072	0.41	2.7	3.1	4.83	0.28	246	1.9	4.49	4.9
STD DS11	Standard	18.9	59.6	0.85	419.8	0.090	<20	1.14	0.071	0.39	2.8	3.2	5.12	0.28	247	2.2	4.69	5.2
STD DS11	Standard	17.4	54.7	0.81	402.5	0.086	<20	1.07	0.068	0.38	2.6	3.1	4.96	0.27	257	1.9	4.40	4.9
STD DS11	Standard	18.4	58.7	0.87	417.1	0.089	<20	1.15	0.072	0.41	2.8	3.3	5.01	0.29	239	2.3	4.80	4.7
STD OREAS45EA	Standard	7.1	852.1	0.09	148.3	0.089	<20	3.14	0.017	0.05	<0.1	72.8	0.06	0.03	8	0.9	0.10	11.7
STD OREAS45EA	Standard	7.5	863.6	0.11	146.8	0.098	<20	3.36	0.016	0.05	<0.1	80.8	0.06	0.03	5	1.2	0.13	13.3
STD OREAS45EA	Standard	7.8	860.1	0.11	157.8	0.101	<20	3.42	0.017	0.06	<0.1	81.6	0.07	0.03	11	0.8	0.09	13.5
STD OREAS45EA	Standard	7.0	806.8	0.10	137.1	0.093	<20	3.11	0.015	0.05	<0.1	76.4	0.06	0.03	13	0.6	0.09	11.9
STD OREAS45EA Expected		7.06	849	0.095	148	0.0984		3.32	0.02	0.053		78	0.072	0.036	10	0.78	0.1	12.4
STD DS11 Expected		18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	3.1	4.9	0.2835	260	2.2	4.56	4.7
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1