

APPENDIX I

STATEMENT OF QUALIFICATIONS

WILLIAM D. MANN, M.Sc., P.Geo.

19 HAYES CRESCENT, WHITEHORSE, YUKON Y1A 0E1

1. I am a member in good standing of the Association of Professional Engineers and Geoscientists of BC, Licence #31907.
2. I am a Graduate of Queen's University, 1986, with a Master of Science Degree in Mineral Exploration Geology.
3. I am a Graduate of the University of British Columbia, 1983, with a Bachelor of Science Degree in Geology.
4. I have worked in mineral exploration and mining continuously since 1979.
5. I designed, supervised and participated in the initial work program on the WALHALLA Project in 2011, and oversaw the airborne geophysical and power auger sampling programs.
6. I am a consulting geologist for Comstock Metals Ltd., Volcanic Metals Corp., and Seafeld Explorations Ltd. owners of the claims. I hold no interest in the WALHALLA property. I do not hold shares or options in Comstock Metals Ltd., Volcanic Metals Corp., or Seafeld Explorations Ltd.

December 15, 2012

William D. Mann, M.Sc., P.Geo.

APPENDIX 2**2011- 2012 Walhalla (Bar) Project Statement of Expenditures - Seafield Explorations Ltd.**

DATE	INVOICE #	SUPPLIER	ITEM	COST	TOTALS
<u>Phase 1 Geochemistry & Prospecting</u>					
<u>September 6- 15, 2011</u>					
<u>Expenses incurred by contractors on behalf of Seafield (Volcanic)</u>					
2011-09-21	11-107E	William Mann	Groceries, hardware, travel costs	\$3,842.99	
				3,842.99	\$3,843
<u>Travel and Accommodation</u>					
		Hotels	est.	1,000.00	
		Restaurants	est.	1,000.00	
		Flights to & from Whitehorse	est.	400.00	
				2,400.00	\$2,400
<u>Employee Wages</u>					
	est.	John La Gorgue, COO	Yukon field work September 5- 17 (13 days @ \$600)	7,800.00	\$7,800
<u>Contractors and Consultant Fees</u>					
2011-11-16	WH111611	Coast Mountain Geological Ltd.	Map preparation	5,662.50	
2011-10-31	11-159-01	Luminai Drafting Ltd.	drafting	841.00	
2011-09-20	3291	Fireweed Helicopters	flights to & from property	26,008.40	
2011-09-13	3148	Great River Aviation Ltd.	medivac flight	620.25	
2011-09-22	11-108	William Mann	QP project manager, geologist, truck	15,015.00	
2011-11-17	11-112	William Mann	preparation of 43-101 report	10,080.00	
2011-09-17	123	Sandro Frizzi	Prospecting and sampling	5,817.00	
2011-09-19	101	Matt Little	Prospecting and sampling	4,689.00	
2011-09-22	1109	Max Mikhailytchev	Prospecting and sampling	6,735.00	
				75,468.15	\$75,468
<u>Geochemical Analysis - Phase 1</u>					
2011-10-07	11K42980M	AGAT Lab	Soil/ Rock geochemistry	5,471.43	
2011-10-07	11K42982M	AGAT Lab	Soil/ Rock geochemistry	768.80	
2011-10-07	11K43287M	AGAT Lab	Soil/ Rock geochemistry	3,224.00	
2011-10-07	11K43289M	AGAT Lab	Soil/ Rock geochemistry	6,164.84	
2011-10-14	11K44606M	AGAT Lab	Soil/ Rock geochemistry	5,228.64	
				20,857.71	\$20,858
<u>Phase 2 Airborne Geophysical Survey</u>					
<u>October 22- November 22, 2011</u>					
2011-11-30	11-159-02	Luminai Drafting Ltd.	drafting	435.00	
2011-12-31	11-115	William Mann	review geophysics and backpack soils	2,205.00	
2011-11-29	1161	Precision GeoSurveys	4756 line-km magnetic survey	356,296.00	
2011-12-14	1164	Precision GeoSurveys	magnetic survey report	20,000.00	
				378,936.00	\$378,936
<u>Phase 3 Backpack Drill Soil Survey</u>					
<u>March 13- 21, 2012</u>					
2012-03-24	VOL 2012-01	Ground Truth Exploration Inc.	Backpack drill soil sampling program	26,551.88	
2012-02-29	12-159-01	Luminai Drafting Ltd.	drafting	203.00	
		William Mann	report writing	1,800.00	
2012-04-12	VANI123675	Acme Analytical	357 soil analyses	851.20	
2012-04-13	VANI123810	Acme Analytical	357 soil analyses	7,168.00	
				36,574.08	\$36,574
TOTAL EXPENDITURES:					\$525,879

Signed:**Date:**

agent for Seafield Explorations Ltd. and Volcanic Metals

APPENDIX 3 UTM Zone 08V Walhalla Project - March 2012 SOIL DESCRIPTIONS

sample_id	easting	northing	colour_primary	site_slope	depth	quality	horizon	vegetation	site_cover	sample_note1	soil_sample_freehand_notes	texture	moisture
1175711	358427	6989629	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover	Possible Creek Contamination	Coarse	Sand	Damp
1175710	358427	6989652	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover			Sand	Damp
1175709	358426	6989677	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175708	358427	6989704	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175707	358427	6989728	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1175706	358427	6989752	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175705	358427	6989778	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover		Duplicate 1175704 Auger Bit Sample	Sand	Dry
1175704	358427	6989778	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175703	358427	6989803	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1175702	358426	6989829	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Damp
1175701	358427	6989853	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175700	358426	6989880	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175789	358427	6989904	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1175788	358427	6989930	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Damp
1175787	358427	6989953	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover		Drilled through rock.	Sand	Dry
1175786	358426	6989978	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175785	358427	6990002	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175784	358427	6990029	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover		Drilled through rock, possibly quartz	Sand	Dry
1175783	358426	6990055	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1175782	358427	6990079	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175781	358426	6990105	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175780	358427	6990129	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175779	358427	6990154	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175778	358426	6990177	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175777	358426	6990204	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175776	358427	6990228	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175775	358477	6990228	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175774	358477	6990204	Dark Blue Black	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175772	358476	6990153	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175773	358477	6990179	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Damp
1175771	358477	6990128	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175770	358477	6990103	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175797	358376	6989777	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175796	358377	6989753	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175795	358377	6989726	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175794	358377	6989702	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175793	358377	6989678	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1175792	358377	6989653	Dark Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1175791	358377	6989629	Dark Brown	Subtle Slope	90	Good	C	Old Burn	Leaf Cover			Sand	Dry
1169196	358227	6989929	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1169195	358227	6989955	Light Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1169194	358227	6990004	Light Brown	Steep	90	Excellent	O	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1169193	358227	6990030	Chocolate Brown	Pronounced	100	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1169192	358228	6990056	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1169191	358227	6990082	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175740	358227	6990106	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1175739	358227	6990130	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175738	358226	6990155	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175737	358227	6990181	Light Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1175736	358227	6990206	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover		Drilled through rock	Sand	Dry
1175735	358229	6990227	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover		Drilled through rock	Sand	Dry
1175734	358327	6990228	Light Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1175733	358328	6990205	Light Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1175732	358326	6990181	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1175731	358328	6990155	Light Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1175730	358327	6990129	Light Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1175729	358327	6990104	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock, small sample	Sand	Dry
1175728	358327	6990079	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover		Drilled through rock	Sand	Dry
1175727	358327	6990056	Chocolate Brown	Subtle Slope	100	Excellent	C	Old Burn	Grass Cover		Drilled through rock	Sand	Dry
1175726	358327	6990031	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175725	358325	6990004	Chocolate Brown	Pronounced	120	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175724	358327	6989981	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175723	358326	6989955	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175722	358326	6989928	Chocolate Brown	Pronounced	110	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175721	358328	6989904	Chocolate Brown	Pronounced	110	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175720	358326	6989880	Reddish Yellow	Pronounced	120	Excellent	B	Old Burn	Grass Cover			Sand	Dry
1175719	358326	6989854	Chocolate Brown	Pronounced	110	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175718	358327	6989830	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175717	358327	6989803	Chocolate Brown	Pronounced	110	Excellent	C	Old Burn	Grass Cover	Small Sample	Bottom out on rock	Sand	Dry
1175716	358327	6989780	Chocolate Brown	Pronounced	100	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175715	358327	6989755	Chocolate Brown	Pronounced	100	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175714	358327	6989728	Chocolate Brown	Pronounced	130	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175713	358327	6989705	Dark Brown	Pronounced	120	Good	C	Old Burn	Grass Cover			Sand	Wet
1175712	358327	6989680	Dark Brown	Subtle Slope	120	Good	C	Old Burn	Grass Cover			Sand	Damp
1175800	358327	6989653	Dark Brown	Subtle Slope	120	Good	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1175799	358327	6989629	Chocolate Brown	Subtle Slope	120	Good	C	Old Burn	Grass Cover			Sand	Wet
1175939	358133	6989930	Chocolate Brown	Pronounced	90	Good	C	Poplar	Leaf Cover	Coarse	Duplicate 1175938	Sand	Damp
1175938	358133	6989930	Chocolate Brown	Pronounced	90	Excellent	C	Poplar	Leaf Cover	Coarse		Sand	Damp
1175937	358130	6989953	Reddish Yellow	Pronounced	90	Good	C	Poplar	Leaf Cover	Coarse	Shiny grit	Sand	Dry
1175936	358131	6989978	Reddish Yellow	Pronounced	90	Excellent	C	Poplar	Leaf Cover	Coarse		Sand	Dry
1175935	358133	6990008	Chocolate Brown	Pronounced	90	Good	B	Old Burn	Leaf Cover	Clay		Sand	Damp
1175934	358130	6990035	Chocolate Brown	Pronounced	90	Good	C	Poplar	Leaf Cover	Coarse		Sand	Dry
1175933	358128	6990058	Reddish Yellow	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175932	358128	6990081	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover	Clay	Some clay	Sand	Damp
1175931	358128	6990107	Reddish Yellow	Pronounced	90	Excellent	C	Old Burn	Leaf Cover	Coarse	Quartz chips	Sand	Dry
1175930	358124	6990136	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1175929	358125	6990160	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1175769	358476	6990079	Reddish Yellow	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175768	358476	6990053	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175767	358476	6990028	Chocolate Brown	Pronounced	110	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175766	358476	6990002	Chocolate Brown	Pronounced	110	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175765	358476	6989976	Reddish Yellow	Pronounced	110	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175764	358476	6989952	Chocolate Brown	Pronounced	120	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175763	358477	6989927	Chocolate Brown	Pronounced	100	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175762	358477	6989902	Chocolate Brown	Pronounced	110	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175761	358477	6989878	Dark Blue Black	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry

sample_id	easting	northing	colour_primary	site_slope	depth	quality	horizon	vegetation	site_cover	sample_note1	soil_sample_freehand_notes	texture	moisture
1175760	358477	6989854	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175759	358477	6989828	Chocolate Brown	Pronounced	170	Excellent	C	Old Burn	Grass Cover			Clay	Damp
1175758	358477	6989804	Chocolate Brown	Pronounced	110	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175757	358477	6989780	Chocolate Brown	Pronounced	130	Excellent	C	Old Burn	Grass Cover			Sand	Damp
1175756	358477	6989754	Chocolate Brown	Pronounced	100	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1175755	358478	6989729	Chocolate Brown	Pronounced	130	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Damp
1175754	358478	6989702	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse	Small sample	Sand	Damp
1175753	358478	6989678	Chocolate Brown	Pronounced	120	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Damp
1175752	358478	6989654	Chocolate Brown	Subtle Slope	130	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Damp
1175751	358478	6989629	Chocolate Brown	Subtle Slope	100	Excellent	C	Old Burn	Burnt Moss			Sand	Wet
1175928	358122	6990181	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover	Fine		Sand	Damp
1175927	358125	6990208	Chocolate Brown	Pronounced	90	Good	B	Old Burn	Grass Cover	Fine	Some grit	Silt	Wet
1175925	358126	6990229	Chocolate Brown	Pronounced	90	Good	B	Old Burn	Grass Cover	Fine	Some grit	Sand	Damp
1175924	358376	6990230	Light Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1175923	358375	6990206	Grey	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1175922	358375	6990178	Reddish Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1175921	358373	6990157	Reddish Yellow	Subtle Slope	90	Good	C	Old Burn	Grass Cover	Fine		Sand	Dry
1175920	358375	6990121	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse	Quartz Chips	Sand	Dry
1175919	358376	6990103	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover		Some b	Sand	Damp
1175918	358370	6990076	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover	Fine		Sand	Dry
1175917	358376	6990051	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse	Quartz Chips	Sand	Dry
1175916	358372	6990031	Reddish Yellow	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse	Quartz Chips	Sand	Dry
1175915	358371	6990005	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Quartz Chips		Sand	Dry
1175914	358368	6989984	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1175913	358369	6989954	Chocolate Brown	Pronounced	80	Good	C	Old Burn	Grass Cover	Coarse	Some chips	Sand	Dry
1175912	358369	6989930	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1175911	358372	6989901	Grey	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine	Good grit	Sand	Dry
1175947	358376	6989882	Reddish Yellow	Pronounced	80	Good	C	Old Burn	Grass Cover	Fine	Mica and silist	Sand	Dry
1175926	358376	6989849	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1175902	358373	6989825	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1175901	358377	6989797	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1201622	358276	6990229	Light Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine		Gravel	Dry
1201621	358276	6990203	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1201620	358277	6990178	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover	Fine		Sand	Damp
1201619	358275	6990153	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1201618	358277	6990127	Chocolate Brown	Subtle Slope	90	Excellent	C	No Trees	Grass Cover			Gravel	Dry
1201617	358277	6990101	Light Brown	Pronounced	90	Excellent	C	Old Burn	Burnt Moss	Fine	Bedrock	Sand	Dry
1201616	358277	6990077	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Damp
1201615	358277	6990051	Light Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1201614	358278	6990028	Reddish Yellow	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1201613	358278	6990004	Light Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1201612	358277	6989977	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1201611	358278	6989952	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1201609	358278	6989903	Reddish Yellow	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1201608	358279	6989881	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover		Some mica	Sand	Damp
1201607	358278	6989853	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Damp
1201606	358278	6989828	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1201605	358278	6989801	Reddish Yellow	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse	Duplicate 1201604	Sand	Dry
1201604	358278	6989801	Reddish Yellow	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1201603	358279	6989779	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse	Rusty Rocks	Sand	Dry
1201602	358279	6989753	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover		Some clay content	Sand	Damp
1201601	358278	6989726	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover	Coarse	Lots of little white rock chips	Sand	Damp
1175946	358279	6989704	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover	Coarse		Sand	Damp
1175945	358278	6989677	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover	Coarse	Rusty Rocks	Sand	Dry
1175944	358127	6989629	Dark Grey Black	Subtle Slope	90	Good	C	Old Burn	Grass Cover	Clay		Sand	Damp
1175943	358128	6989652	Dark Grey Black	Subtle Slope	140	Good	C	Old Burn	Leaf Cover	Fine	Some grit	Sand	Damp
1175942	358129	6989677	Chocolate Brown	Subtle Slope	110	Good	C	Old Burn	Leaf Cover	Rusty Rock Chip	Some clay	Sand	Damp
1175941	358130	6989703	Chocolate Brown	Subtle Slope	100	Good	C	Old Burn	Grass Cover	Rusty Rock Chip	Some clay	Sand	Damp
1175909	358129	6989728	Dark Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover	Fine	Some clay	Sand	Damp
1175908	358130	6989755	Dark Brown	Subtle Slope	90	Good	B	Old Burn	Leaf Cover	Fine	Some grit	Clay	Damp
1175907	358131	6989779	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover	Coarse		Sand	Dry
1175906	358132	6989804	Chocolate Brown	Pronounced	90	Good	B	Old Burn	Grass Cover	Fine	Some grit. Hit bedrock but no good c	Clay	Damp
1175905	358133	6989830	Chocolate Brown	Pronounced	90	Good	C	Poplar	Leaf Cover	Fine		Sand	Dry
1175904	358129	6989855	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1175903	358129	6989882	Chocolate Brown	Pronounced	90	Good	C	Poplar	Grass Cover	Coarse		Gravel	Dry
1200026	358027	6989905	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200025	358027	6989881	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1200024	358027	6989855	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Burnt Moss		Drilled through rock	Sand	Dry
1200023	358027	6989830	Dark Brown	Pronounced	90	Excellent	C	Old Burn	Burnt Moss	Fine	Drilled through rock	Sand	Dry
1200022	358027	6989804	Chocolate Brown	Pronounced	120	Good	C	Old Burn	Burnt Moss	Fine		Sand	Wet
1200021	358027	6989778	Chocolate Brown	Subtle Slope	100	Good	C	Old Burn	Burnt Moss	Fine		Sand	Wet
1200020	358027	6989754	Chocolate Brown	Subtle Slope	120	Poor	C	Old Burn	Grass Cover	Fine		Sand	Wet
1200019	358027	6989728	Greyish Green	Subtle Slope	90	Excellent	C	Old Burn	Burnt Moss	Fine	Drilled through rock	Sand	Dry
1200018	358027	6989704	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200017	358026	6989679	Dark Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200016	358027	6989655	Chocolate Brown	Pronounced	120	Poor	C	Old Burn	Burnt Moss	Fine		Sand	Wet
1200015	358027	6989629	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200014	358227	6989629	Dark Grey Black	Subtle Slope	110	Excellent	C	Old Burn	Grass Cover		Greasy feel	Sand	Damp
1200013	358227	6989655	Dark Brown	Subtle Slope	120	Poor	C	Old Burn	Grass Cover			Sand	Wet
1200012	358227	6989679	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1200011	358228	6989705	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1200010	358227	6989730	Dark Grey Black	Pronounced	90	Poor	C	Old Burn	Grass Cover	Clay		Sand	Damp
1200009	358226	6989754	Dark Brown	Pronounced	90	Good	C	Old Burn	Grass Cover	Fine		Sand	Damp
1200008	358227	6989781	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200007	358227	6989804	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200006	358225	6989830	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200005	358227	6989854	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1200004	358227	6989879	Chocolate Brown	Pronounced	100	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1200003	358227	6989905	Light Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1200002	358227	6989980	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200140	358027	6989928	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover		duplicate 1200139	Sand	Dry
1200139	358027	6989928	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200138	358026	6989977	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Leaf Cover			Sand	Dry
1200137	358027	6990003	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200136	358026	6990055	Light Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1200135	358027	6990080	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover		Duplicate 1200134	Sand	Dry
1200134	358027	6990080	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200133	358028	6990231	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry

sample_id	easting	northing	colour_primary	site_slope	depth	quality	horizon	vegetation	site_cover	sample_note1	soil_sample_freehand_notes	texture	moisture
1200132	358026	6990206	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Leaf Cover			Sand	Dry
1200131	358027	6990179	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Leaf Cover			Sand	Dry
1200130	358027	6990156	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Leaf Cover			Sand	Dry
1200129	358026	6990128	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Leaf Cover			Sand	Dry
1200128	358027	6990105	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Leaf Cover	Fine		Sand	Dry
1200127	358028	6990028	Light Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200126	358027	6989956	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Leaf Cover	Coarse		Sand	Dry
1200122	358129	6989899	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover	Coarse	replacing lost samp from mar 17. No photo	Sand	Damp
1200120	358076	6990054	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover	Partially Frozen	Some b	Sand	Damp
1200119	358075	6990029	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover	Coarse		Sand	Dry
1200118	358074	6990004	Chocolate Brown	Pronounced	90	Poor	B	Old Burn	Leaf Cover	Fine	Frozen	Sand	Wet
1200117	358075	6989979	Chocolate Brown	Pronounced	90	Good	B	Old Burn	Grass Cover	Frozen	Tried 2 holes but no good stuff around	Sand	Damp
1200116	358077	6989954	Chocolate Brown	Pronounced	80	Excellent	C	Old Burn	Leaf Cover			Sand	Dry
1200115	358075	6989929	Chocolate Brown	Pronounced	90	Good	B	Old Burn	Grass Cover		Some grit	Sand	Damp
1200114	358074	6989904	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover	Coarse		Sand	Dry
1200113	358073	6989878	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover		Some b horizon	Sand	Damp
1200225	358073	6989854	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover			Sand	Damp
1200224	358075	6989828	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover		Some b horizon, 6261ppb Au	Sand	Damp
1200223	358074	6989803	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover			Sand	Damp
1200222	358076	6989778	Dark Brown	Subtle Slope	90	Good	B	Old Burn	Leaf Cover		Some clay	Sand	Damp
1200221	358076	6989753	Dark Brown	Subtle Slope	90	Good	B	Old Burn	Leaf Cover		Some grit	Sand	Damp
1200220	358178	6989755	Dark Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover			Sand	Damp
1200219	358177	6989781	Dark Grey Black	Pronounced	90	Good	C	Old Burn	Leaf Cover		2155ppb Au	Sand	Damp
1200218	358176	6989804	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover			Sand	Dry
1200217	358178	6989830	Light Brown	Pronounced	90	Excellent	C	Old Burn	Leaf Cover			Sand	Dry
1200216	358177	6989854	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Leaf Cover			Sand	Dry
1200215	358176	6989880	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover		Some light grey @60cm	Sand	Dry
1200214	358180	6989908	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Leaf Cover			Sand	Dry
1200213	358278	6989928	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200211	358180	6989931	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200210	358183	6989955	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover	Fine		Sand	Damp
1200209	358181	6989979	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover	Coarse		Sand	Damp
1200208	358184	6990006	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Damp
1200207	358186	6990032	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover	Fine		Sand	Damp
1200206	358185	6990055	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Leaf Cover			Sand	Dry
1200205	358184	6990079	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover			Sand	Damp
1200204	358183	6990105	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover		Some b	Sand	Damp
1200203	358181	6990130	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200202	358179	6990154	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200201	358176	6990178	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover	Fine		Sand	Dry
1201624	358177	6990204	Chocolate Brown	Subtle Slope	90	Good	B	Old Burn	Grass Cover		Shiny clay	Sand	Damp
1201623	358178	6990229	Chocolate Brown	Pronounced	90	Good	B	Old Burn	Grass Cover		Some clay	Sand	Damp
1200037	358577	6990029	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200036	358578	6990054	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200035	358578	6990079	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1200034	358577	6990103	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200033	358579	6990127	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200032	358577	6990153	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1200031	358576	6990180	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200030	358577	6990202	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200029	358577	6990228	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200028	358527	6990228	Light Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200027	358527	6990203	Reddish Yellow	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200150	358525	6990179	Reddish Yellow	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1200149	358528	6990155	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200148	358526	6990131	Light Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1200147	358527	6990104	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200146	358527	6990080	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine	Duplicate 1200144	Sand	Dry
1200144	358527	6990080	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200143	358527	6990053	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200142	358527	6990030	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Damp
1200141	358527	6990005	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200112	358527	6989980	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200111	358527	6989954	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200110	358527	6989928	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine		Sand	Dry
1200109	358526	6989904	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200108	358527	6989878	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200107	358528	6989854	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover		Duplicate 1200106	Sand	Dry
1200106	358528	6989854	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200105	358527	6989829	Chocolate Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200104	358527	6989805	Reddish Yellow	Pronounced	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200103	358527	6989779	Light Brown	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Dry
1200102	358527	6989753	Reddish Yellow	Pronounced	90	Excellent	C	Old Burn	Grass Cover	Fine	Drilled through rock	Sand	Damp
1200101	358527	6989729	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover			Sand	Wet
1200124	358527	6989704	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Damp
1200123	358527	6989678	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1200122	358527	6989654	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover		Duplicate 1200121	Sand	Dry
1200125	358527	6989629	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1200121	358527	6989654	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Grass Cover			Sand	Dry
1201715	358179	6989479	Dark Brown	Pronounced	150	Excellent	C	Willows	Leaf Cover	Coarse	Rusty rock chips, Quartz chips	Sand	Damp
1200250	358179	6989479	Dark Brown	Pronounced	90	Poor	B	Willows	Leaf Cover	Fine		Clay	Damp
1200249	358174	6989475	Dark Grey Black	Pronounced	80	Excellent	C	Willows	Leaf Cover	Fine	Waxy graphite. slide hammer maxed on rock	Sand	Dry
1200247	358174	6989475	Dark Grey Black	Pronounced	90	Good	C	Willows	Leaf Cover		Waxy graphite. hit black @60cm	Sand	Damp
1200246	358184	6989475	Dark Grey Black	Pronounced	100	Good	C	Willows	Leaf Cover		Good grit	Sand	Damp
1200245	358184	6989475	Dark Brown	Pronounced	90	Good	B	Willows	Leaf Cover		Dark grey black @90cm	Clay	Damp
1200244	358179	6989475	Dark Grey Black	Pronounced	140	Excellent	C	Willows	Leaf Cover	Quartz Chips	Coarse sand at bottom, Rusty rocks	Sand	Damp
1200243	358179	6989475	Dark Grey Black	Pronounced	90	Good	B	Willows	Leaf Cover		Waxy. Hit dark grey @80cm	Sand	Damp
1200242	357977	6990055	Chocolate Brown	Subtle Slope	90	Good	B	Willows	Leaf Cover	Clay	Some grit	Sand	Damp
1200241	357977	6990080	Chocolate Brown	Subtle Slope	90	Poor	B	Poplar	Leaf Cover	Fine	Some grit.	Sand	Damp
1200240	357977	6990107	Chocolate Brown	Pronounced	90	Good	C	Willows	Leaf Cover		Some b	Sand	Damp
1200239	357978	6990131	Chocolate Brown	Pronounced	90	Good	C	Poplar	Leaf Cover			Sand	Damp
1200238	357977	6990155	Chocolate Brown	Pronounced	90	Excellent	C	Poplar	Leaf Cover		Duplicate 1200237	Sand	Dry
1200237	357977	6990155	Chocolate Brown	Pronounced	90	Excellent	C	Poplar	Leaf Cover	Coarse		Sand	Dry
1200236	357976	6990180	Chocolate Brown	Pronounced	90	Excellent	C	Willows	Leaf Cover			Sand	Dry
1200235	357976	6990204	Chocolate Brown	Pronounced	90	Good	C	Willows	Leaf Cover	Quartz Chips		Sand	Damp
1200234	357977	6990229	Chocolate Brown	Pronounced	90	Good	C	Willows	Leaf Cover	Coarse	Quartz Chips	Sand	Damp
1200233	358079	6990229	Chocolate Brown	Pronounced	90	Good	B	Willows	Leaf Cover		Some grit	Gravel	Damp
1200232	358079	6990205	Chocolate Brown	Pronounced	90	Good	C	Willows	Leaf Cover			Sand	Dry

sample_id	easting	northing	colour_primary	site_slope	depth	quality	horizon	vegetation	site_cover	sample_note1	soil_sample_freehand_notes	texture	moisture
1200231	358080	6990178	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover			Sand	Dry
1200230	358078	6990154	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover			Sand	Damp
1200229	358082	6990129	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Damp
1200228	358080	6990104	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Leaf Cover			Sand	Damp
1200227	358079	6990078	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover		Duplicate 1120226	Sand	Dry
1200226	358079	6990078	Chocolate Brown	Pronounced	90	Good	C	Old Burn	Grass Cover			Sand	Dry
1200263	358819	6988838	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200262	358800	6988856	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Bare Soil			Sand	Damp
1200261	358783	6988875	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200260	358761	6988888	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200259	358742	6988905	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil	Fine		Sand	Dry
1200258	358724	6988923	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil		Duplicate 1200257	Sand	Dry
1200257	358724	6988923	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200256	358705	6988938	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200255	358667	6988973	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Bare Soil			Sand	Damp
1200254	358651	6988990	Chocolate Brown	Subtle Slope	90	Good	C	Old Burn	Bare Soil			Sand	Damp
1200253	358688	6988957	Dark Blue Black	Subtle Slope	90	Good	C	Old Burn	Bare Soil			Sand	Damp
1200252	358634	6989010	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil		Duplicate 1200251	Sand	Dry
1200251	358634	6989010	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200350	358617	6989028	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200349	358598	6989044	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200348	358581	6989063	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Damp
1200347	358568	6989084	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200346	358555	6989106	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Damp
1200345	358535	6989123	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200344	358517	6989140	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200343	358501	6989160	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200342	358485	6989181	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Damp
1200341	358472	6989202	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil	Fine		Sand	Dry
1200340	358454	6989219	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200339	358433	6989232	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200338	358416	6989251	Light Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil	Fine		Sand	Dry
1200337	358398	6989270	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200336	358383	6989290	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200335	358365	6989308	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200334	358349	6989326	Chocolate Brown	Subtle Slope	90	Excellent	O	Old Burn	Bare Soil			Sand	Dry
1200333	358332	6989345	Light Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil	Fine		Sand	Dry
1200332	358315	6989362	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil	Fine		Sand	Dry
1200331	358296	6989378	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil	Fine		Sand	Dry
1200330	358276	6989393	Chocolate Brown	Subtle Slope	130	Poor	C	Old Burn	Bare Soil	Fine	Some B, Organics 10%	Sand	Dry
1200329	358257	6989407	Dark Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200328	358237	6989426	Dark Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200327	358219	6989443	Chocolate Brown	Subtle Slope	90	Excellent	C	Old Burn	Bare Soil			Sand	Dry
1200326	358202	6989462	Dark Grey Black	Subtle Slope	90	Good	C	Old Burn	Bare Soil	Fine		Sand	Damp
1200309	357694	6989505	Chocolate Brown	Subtle Slope	130	Poor	B	Willows	Leaf Cover	Fine	Mud	Sand	Wet
1200308	357713	6989489	Chocolate Brown	Subtle Slope	130	Good	C	Willows	Leaf Cover	Fine	Transported river sand	Sand	Damp
1200307	357737	6989483	Chocolate Brown	Subtle Slope	150	Good	C	Willows	Leaf Cover	Rusty Rock Chip		Sand	Wet
1200306	357763	6989482	Chocolate Brown	Subtle Slope	90	Good	C	Willows	Leaf Cover	Coarse	Quartz Chips	Sand	Damp
1200305	357787	6989475	Chocolate Brown	Subtle Slope	90	Good	B	Willows	Leaf Cover	Quartz Chips		Sand	Wet
1200304	357813	6989470	Chocolate Brown	Subtle Slope	130	Good	B	Willows	Leaf Cover	Rusty Rock Chip		Sand	Wet
1200303	357835	6989460	Chocolate Brown	Subtle Slope	120	Good	C	Willows	Leaf Cover	Fine		Sand	Damp
1200302	357858	6989449	Chocolate Brown	Subtle Slope	120	Good	C	White Spruce	Leaf Cover	Fine		Sand	Damp
1200301	357883	6989450	Chocolate Brown	Subtle Slope	120	Poor	B	White Spruce	Leaf Cover	Fine		Sand	Wet
1201712	357908	6989453	Chocolate Brown	Subtle Slope	100	Good	B	Willows	Leaf Cover		Shiny	Sand	Wet
1201711	357931	6989460	Chocolate Brown	Subtle Slope	90	Good	B	Willows	Leaf Cover	Quartz Chips		Sand	Damp
1201710	357954	6989471	Dark Grey Black	Subtle Slope	130	Good	B	Willows	Leaf Cover	Fine	Dry fine sand @120. Possible transport	Sand	Damp
1201709	357977	6989482	Dark Brown	Subtle Slope	110	Poor	B	Willows	Leaf Cover	Frozen		Clay	Wet
1201708	358002	6989477	Dark Grey Black	Subtle Slope	100	Poor	B	White Spruce	Grass Cover	Frozen		Clay	Damp
1201707	358028	6989476	Dark Grey Black	Subtle Slope	140	Good	B	White Spruce	Grass Cover	Rusty Rock Chip		Sand	Damp
1201706	358053	6989477	Dark Grey Black	Subtle Slope	130	Poor	B	Willows	Leaf Cover			Clay	Wet
1201705	358076	6989481	Dark Grey Black	Pronounced	90	Good	C	Willows	Leaf Cover		Some b horizon. Some grit	Sand	Damp
1201704	358102	6989483	Dark Brown	Pronounced	90	Poor	B	Willows	Leaf Cover	Clay	No good grit	Sand	Damp
1201703	358128	6989486	Dark Grey Black	Pronounced	130	Excellent	C	Willows	Leaf Cover	Coarse	rusty rocks	Sand	Dry
1201702	358156	6989487	Dark Grey Black	Pronounced	90	Good	C	Willows	Leaf Cover	Rusty Rock Chip		Sand	Dry
1201714	358178	6989470	Dark Grey Black	Pronounced	90	Good	C	Willows	Leaf Cover		Gritty @ very bottom	Sand	Damp
1201713	358178	6989470	Dark Brown	Pronounced	90	Good	B	Willows	Leaf Cover	Fine		Clay	Damp
June													
1268558	358252	6989754	Light Brown	Subtle Slope	110	Excellent	C	Poplar	Leaf Cover	Coarse		Gravel	Damp
1268577	358152	6989703	Chocolate Brown	Subtle Slope	50	Excellent	C	Poplar	Leaf Cover	Bright Orange	Rocky	Gravel	Damp
1290063	358302	6989728	Dark Brown	Pronounced	80	Good	C	Old Burn	Grass Cover	Bright Orange		Sand	Damp
1260471	358052	6989880	Chocolate Brown	Subtle Slope	50	Excellent	C	Old Burn	Burnt Moss	Coarse		Sand	Damp
1290036	358402	6989630	Dark Brown	Subtle Slope	80	Excellent	C	Old Burn	Grass Cover			Sand	Damp
1290065	358301	6989779	Reddish Brown	Pronounced	50	Good	C	Willows	Thin Moss	Rocky		Sand	Dry
1290037	358400	6989653	Dark Brown	Subtle Slope	70	Excellent	C	Old Burn	Grass Cover	Rocky		Sand	Damp
1260469	358052	6989929	Reddish Yellow	Subtle Slope	60	Excellent	C	Old Burn	Burnt Moss	Fine		Sand	Damp
1260480	358051	6989803	Chocolate Brown	Subtle Slope	70	Excellent	C	Old Burn	Burnt Moss	Coarse		Sand	Damp
1260460	358002	6989729	Chocolate Brown	Subtle Slope	150	Good	B	Old Burn	Burnt Moss	Fine		Silt	Damp
1260491	358101	6989904	Reddish Brown	Pronounced	60	Excellent	C	Old Burn	Burnt Moss	Coarse		Sand	Damp
1290065	358301	6989779	Reddish Brown	Pronounced	50	Good	C	Willows	Thin Moss	Rocky		Sand	Dry
1268567	358189	6989782	Light Brown	Subtle Slope	70	Excellent	C	Poplar	Thin Moss	Sandy		Gravel	Damp
1290038	358402	6989679	Dark Brown	Subtle Slope	60	Excellent	C	Old Burn	Grass Cover	Rocky		Sand	Damp
1290056	358350	6989679	Dark Grey Black	Subtle Slope	70	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Dry
1268573	358151	6989778	Dark Brown	Subtle Slope	100	Excellent	C	Poplar	Thin Moss	Coarse		Sand	Damp
1268549	358202	6989827	Chocolate Brown	Subtle Slope	70	Excellent	C	Poplar	Sphagnum Mo	Rocky		Gravel	Damp
1290059	358302	6989629	Dark Grey Black	Subtle Slope	80	Good	C	Old Burn	Leaf Cover	Coarse		Sand	Damp
1290044	358402	6989829	Reddish Brown	Pronounced	50	Excellent	C	Old Burn	Grass Cover	Quartz Chips		Sand	Damp
1268557	358253	6989779	Light Brown	Subtle Slope	90	Excellent	C	Poplar	Grass Cover	Sandy		Gravel	Damp
1260463	358001	6989804	Chocolate Brown	Subtle Slope	120	Good	C	Old Burn	Burnt Moss	Coarse		Silt	Damp
1290060	358301	6989653	Dark Grey Black	Subtle Slope	60	Good	C	Willows	Grass Cover	Rocky		Sand	Damp
1260473	358052	6989829	Reddish Yellow	Subtle Slope	60	Excellent	C	Old Burn	Burnt Moss	Fine		Sand	Damp
1268559	358251	6989728	Reddish Yellow	Subtle Slope	50	Excellent	C	Poplar	Grass Cover	Rocky		Gravel	Damp
1290049	358351	6989729	Reddish Brown	Pronounced	70	Excellent	C	Old Burn	Grass Cover	Rocky		Sand	Damp
1290050	358376	6989738	Reddish Brown	Subtle Slope	50	Good	C	Old Burn	Grass Cover	Bright Orange	Rocky	Sand	Damp
1290054	358363	6989726	Reddish Brown	Subtle Slope	40	Good	C	Old Burn	Grass Cover	Bright Orange		Sand	Damp
1260461	358003	6989754	Chocolate Brown	Subtle Slope	70	Good	C	Old Burn	Burnt Moss	Fine	mixed c horizon and b	Silt	Damp
1260464	358003	6989829	Chocolate Brown	Subtle Slope	60	Good	B	Old Burn	Burnt Moss	Coarse	Bright Orange Rust	Silt	Damp
1290064	358302	6989753	Chocolate Brown	Pronounced	100	Excellent	C	Willows	Grass Cover	Rocky		Sand	Damp
1290042	358402	6989779	Reddish Brown	Pronounced	40	Good	C	Old Burn	Grass Cover	Rocky		Sand	Damp

sample_id	easting	northing	colour_primary	site_slope	depth	quality	horizon	vegetation	site_cover	sample_note1	soil_sample_freehand_notes	texture	moisture
1260463	358001	6989804	Chocolate Brown	Subtle Slope	120	Good	C	Old Burn	Burnt Moss	Coarse		Silt	Damp
1260465	358002	6989854	Chocolate Brown	Subtle Slope	80	Good	B	Old Burn	Burnt Moss	Coarse		Silt	Damp
1290054	358363	6989726	Reddish Brown	Subtle Slope	40	Good	C	Old Burn	Grass Cover	Bright Orange		Sand	Damp
1268569	358151	6989878	Light Brown	Subtle Slope	70	Excellent	C	Poplar	Leaf Cover	Rocky		Gravel	Damp
1260467	358004	6989904	Reddish Yellow	Subtle Slope	100	Good	C	Old Burn	Burnt Moss	Fine		Sand	Damp
1260472	358051	6989854	Reddish Yellow	Subtle Slope	80	Excellent	C	Old Burn	Burnt Moss	Coarse		Sand	Damp
1260474	358064	6989828	Chocolate Brown	Subtle Slope	60	Excellent	C	Old Burn	Burnt Moss	Coarse		Sand	Damp
1290043	358401	6989803	Reddish Brown	Pronounced	50	Excellent	C	Old Burn	Grass Cover	Rocky	Quartz Chips	Sand	Damp
1260462	358002	6989780	Chocolate Brown	Subtle Slope	150	Good	C	Old Burn	Burnt Moss	Coarse		Silt	Damp
1260473	358052	6989829	Reddish Yellow	Subtle Slope	60	Excellent	C	Old Burn	Burnt Moss	Fine		Sand	Damp
1260490	358101	6989879	Reddish Yellow	Subtle Slope	60	Good	C	Old Burn	Burnt Moss	Fine	Rocky	Sand	Wet
1290058	358352	6989629	Dark Grey Black	Subtle Slope	70	Good	C	Old Burn	Grass Cover			Sand	Damp
1290039	358401	6989703	Dark Brown	Subtle Slope	110	Excellent	C	Old Burn	Grass Cover	Bright Orange	Rocky	Sand	Damp
1290041	358401	6989754	Reddish Brown	Subtle Slope	50	Excellent	C	Old Burn	Grass Cover	Coarse	Rocky	Sand	Damp
1260485	358102	6989754	Dark Grey Black	Subtle Slope	80	Excellent	C	Old Burn	Burnt Moss	Coarse	Bright Orange Rust	Sand	Damp
1268576	358153	6989729	Light Brown	Subtle Slope	50	Excellent	C	Poplar	Leaf Cover	Coarse	duplicate of 1268575	Sand	Damp
1260466	358002	6989879	Reddish Yellow	Subtle Slope	80	Excellent	C	Old Burn	Burnt Moss	Fine	Bright Orange Rust	Sand	Damp
1260468	358003	6989929	Reddish Yellow	Subtle Slope	50	Excellent	C	Old Burn	Burnt Moss	Quartz Chips	Bright Orange Rust	Sand	Damp
1268575	358153	6989729	Light Brown	Subtle Slope	70	Excellent	C	Poplar	Leaf Cover	Coarse		Sand	Damp
1290053	358376	6989715	Reddish Brown	Subtle Slope	60	Excellent	C	Old Burn	Grass Cover	Dull Red Rust		Sand	Damp
1290066	358301	6989804	Chocolate Brown	Pronounced	70	Good	C	Old Burn	Grass Cover	Rocky	Quartz Chips	Sand	Dry
1268556	358253	6989803	Chocolate Brown	Subtle Slope	150	Excellent	C	Old Burn	Grass Cover	Coarse		Gravel	Damp
1260486	358101	6989779	Chocolate Brown	Subtle Slope	60	Good	C	Old Burn	Burnt Moss	Fine		Sand	Damp
1260489	358102	6989854	Reddish Yellow	Subtle Slope	50	Excellent	C	Old Burn	Burnt Moss	Coarse		Sand	Damp
1268552	358202	6989879	Dark Blue Black	Subtle Slope	70	Excellent	C	Old Burn	Thin Moss	Sandy		Gravel	Damp
1268560	358252	6989705	Reddish Orange	Subtle Slope	60	Excellent	C	Poplar	Thin Moss	Bright Orange	Rocky	Gravel	Damp
1268566	358164	6989780	Chocolate Brown	Subtle Slope	70	Excellent	C	Poplar	Thin Moss	Sandy		Gravel	Damp
1268568	358177	6989794	Chocolate Brown	Pronounced	100	Excellent	B	Poplar	Thin Moss	Coarse	Rocky	Sand	Damp
1260487	358101	6989804	Reddish Yellow	Subtle Slope	70	Excellent	C	Old Burn	Burnt Moss	Quartz Chips		Sand	Damp
1290055	358349	6989704	Dark Grey Black	Subtle Slope	80	Excellent	C	Old Burn	Grass Cover	Coarse	Rocky	Sand	Damp
1268548	358201	6989804	Chocolate Brown	Subtle Slope	50	Excellent	C	Poplar	Thin Moss	Coarse		Sand	Damp
1290062	358300	6989703	Chocolate Brown	Subtle Slope	90	Good	C	Willows	Leaf Cover	Bright Orange	Quartz Chips	Sand	Dry
1268553	358251	6989878	Chocolate Brown	Subtle Slope	120	Excellent	C	Poplar	Leaf Cover	Coarse		Gravel	Damp
1268564	358177	6989729	Grey	Subtle Slope	60	Excellent	C	Alders	Sphagnum Mo	Fine		Gravel	Damp
1268571	358151	6989829	Light Brown	Subtle Slope	60	Excellent	C	Poplar	Thin Moss	Rocky		Gravel	Damp
1268574	358153	6989754	Dark Blue Black	Pronounced	50	Excellent	C	Poplar	Sphagnum Mo	Fine	Rocky	Gravel	Damp
1290047	358352	6989779	Chocolate Brown	Pronounced	70	Good	C	Old Burn	Grass Cover	Rocky		Sand	Dry
1268555	358251	6989829	Chocolate Brown	Pronounced	50	Excellent	C	Poplar	Grass Cover	Fine		Gravel	Damp
1268561	358252	6989680	Dark Blue Black	Subtle Slope	40	Excellent	C	Poplar	Thin Moss	Fine	Bright Orange Rust	Gravel	Damp
1260477	358076	6989843	Reddish Yellow	Subtle Slope	70	Good	C	Old Burn	Burnt Moss	Bright Orange	Quartz Chips	Sand	Damp
1290045	358352	6989829	Chocolate Brown	Pronounced	60	Excellent	C	Old Burn	Grass Cover	Rocky		Sand	Dry
1290048	358351	6989755	Chocolate Brown	Pronounced	100	Good	C	Old Burn	Grass Cover	Rocky		Sand	Dry
1268570	358153	6989854	Chocolate Brown	Pronounced	40	Excellent	C	Poplar	Thin Moss	Rocky		Gravel	Damp
1260479	358074	6989816	Chocolate Brown	Subtle Slope	120	Excellent	C	Old Burn	Burnt Moss	Coarse		Sand	Damp
1260482	358051	6989754	Dark Brown	Subtle Slope	80	Good	B	Old Burn	Burnt Moss	Coarse		Silt	Damp
1268564	358177	6989729	Grey	Subtle Slope	40	Excellent	C	Alders	Sphagnum Mo	Fine		Gravel	Damp
1268572	358152	6989805	Light Brown	Pronounced	70	Excellent	C	Poplar	Grass Cover	Sandy		Gravel	Damp
1260483	358051	6989730	Dark Brown	Subtle Slope	100	Excellent	C	Old Burn	Burnt Moss	Fine	Bright Orange Rust	Sand	Damp
1290046	358352	6989804	Chocolate Brown	Pronounced	80	Good	C	Old Burn	Grass Cover	Rocky		Sand	Damp
1290057	358351	6989653	Greyish Green	Subtle Slope	60	Good	C	Willows	Thin Moss			Sand	Damp
1268544	358202	6989704	Dark Blue Black	Subtle Slope	50	Excellent	C	Poplar	Leaf Cover	Fine	Bright Orange Rust	Gravel	Damp
1260470	358052	6989904	Reddish Yellow	Subtle Slope	150	Excellent	C	Old Burn	Burnt Moss	Fine		Sand	Damp
1290040	358402	6989729	Reddish Yellow	Subtle Slope	60	Excellent	C	Old Burn	Grass Cover	Coarse		Sand	Damp
1260484	358101	6989731	Dark Grey Black	Subtle Slope	60	Excellent	C	Old Burn	Burnt Moss	Coarse		Sand	Damp
1290061	358300	6989678	Dark Grey Black	Subtle Slope	70	Good	C	Willows	Grass Cover	Coarse		Sand	Damp
1260478	358089	6989827	Reddish Yellow	Subtle Slope	110	Excellent	C	Old Burn	Burnt Moss	Coarse	Quartz Chips	Sand	Damp
1290052	358389	6989725	Reddish Brown	Subtle Slope	50	Excellent	C	Old Burn	Grass Cover	Bright Orange	Quartz Chips	Sand	Damp
1268546	358202	6989754	Chocolate Brown	Subtle Slope	80	Excellent	C	Poplar	Thin Moss	Sandy		Gravel	Damp
1268563	358176	6989705	Dark Blue Black	Subtle Slope	50	Excellent	C	Alders	Thin Moss	Coarse		Sand	Damp
1268578	358152	6989679	Dark Blue Black	Subtle Slope	80	Excellent	C	Poplar	Thin Moss	Coarse		Sand	Damp
1260481	358051	6989779	Dark Grey Black	Subtle Slope	50	Excellent	C	Old Burn	Burnt Moss	Bright Orange		Sand	Damp
1260488	358102	6989828	Reddish Yellow	Subtle Slope	70	Good	C	Old Burn	Burnt Moss	Fine	some b horizon	Sand	Damp
1260492	358102	6989930	Reddish Brown	Subtle Slope	60	Excellent	C	Old Burn	Burnt Moss	Coarse		Sand	Damp
1290067	358301	6989829	Chocolate Brown	Pronounced	70	Excellent	C	Old Burn	Grass Cover	Rocky	schist	Sand	Dry
1268543	358202	6989679	Dark Grey Black	Subtle Slope	150	Excellent	C	Poplar	Sphagnum Mo	Fine		Gravel	Damp
1268545	358202	6989729	Light Brown	Subtle Slope	60	Excellent	C	Poplar	Leaf Cover	Fine		Gravel	Damp
1268546	358202	6989754	Chocolate Brown	Subtle Slope	50	Excellent	C	Poplar	Thin Moss	Sandy		Gravel	Damp
1268547	358202	6989778	Dark Blue Black	Subtle Slope	70	Excellent	C	Poplar	Thin Moss	Fine	Bright Orange Rust	Gravel	Damp
1268550	358200	6989854	Chocolate Brown	Pronounced	60	Excellent	C	Poplar	Sphagnum Mo	Rocky		Gravel	Damp
1268554	358253	6989855	Chocolate Brown	Pronounced	70	Excellent	C	Old Burn	Grass Cover	Sandy		Gravel	Damp
1268562	358177	6989679	Dark Blue Black	Subtle Slope	100	Excellent	C	Poplar	Leaf Cover	Fine		Gravel	Damp
1268565	358176	6989768	Dark Blue Black	Subtle Slope	70	Excellent	C	Poplar	Thin Moss	Rocky		Gravel	Damp



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client:

Volcanic Metals Corp.
Suite 700 - 510 West Hastings Street
Vancouver BC V6B1L8 Canada

Submitted By: John LaGourque
Receiving Lab: Canada-Whitehorse
Received: March 27, 2012
Report Date: April 16, 2012
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI12000020.1

CLIENT JOB INFORMATION

Project: VOL
Shipment ID: VOL-2012-001
P.O. Number: 320
Number of Samples: 320

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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

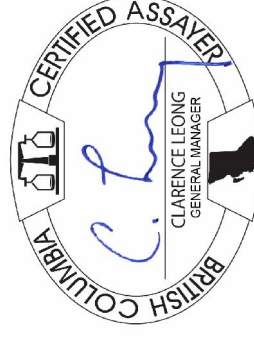
SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	320	Dry at 60C			WHI
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	320	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Volcanic Metals Corp.
Suite 700 - 510 West Hastings Street
Vancouver BC V6B1L8
Canada

CC: Bill Mann



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. Acme 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.



Acme Analytical Laboratories (Vancouver) Ltd.

Report Date: April 16, 2012

Page: 2 of 12 Part 1

WHI1200020.1

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.



Acme Analytical Laboratories (Vancouver) Ltd.

Volcanic Metals Corp.
Suite 700 - 510 West Hastings Street
Vancouver BC V6B1L8 Canada

Report Date: April 16, 2012

2 of 12 Part 2

WHI12000020.1

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.



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

Client: Volcanic Metals Corp.
Suite 700 - 510 West Hastings Street
Vancouver BC V6B1L8 Canada

Project: VOL
Report Date: April 16, 2012

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Page: 3 of 12 **Part** 1

CERTIFICATE OF ANALYSIS

WHI12000020.1

Method Analyte Unit	MDL	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15																1DX15 1DX15 1DX15 1DX15			
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	0.1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1201704	Soil	2.3	39.1	8.5	53	0.2	48.9	10.5	427	2.35	6.4	17.6	4.7	25	<0.1	0.4	<0.1	43	0.26	0.033	15
1201713	Soil	1.2	25.4	8.7	42	0.1	30.3	10.3	536	2.19	5.9	2.9	3.1	28	0.3	0.5	<0.1	49	0.34	0.029	14
1201705	Soil	7.8	70.2	12.9	92	0.4	165.1	22.0	923	3.32	6.2	1.0	5.8	31	0.4	0.3	0.2	41	0.20	0.040	15
1200308	Soil	0.7	15.1	5.0	37	0.1	24.3	6.4	276	1.58	5.3	<0.5	3.0	27	<0.1	0.4	<0.1	39	0.36	0.061	11
1200301	Soil	1.4	28.8	7.4	50	0.3	42.3	9.1	330	2.15	6.9	<0.5	3.3	31	0.3	0.5	<0.1	45	0.43	0.052	13
1200302	Soil	0.6	17.8	5.3	37	0.1	27.2	5.5	178	1.64	5.8	31.5	3.0	27	<0.1	0.3	<0.1	39	0.36	0.048	12
1200304	Soil	1.2	25.6	8.3	43	0.2	32.4	8.9	328	2.08	6.7	3.2	3.2	29	0.1	0.5	0.2	45	0.43	0.044	12
1200306	Soil	1.2	29.9	7.4	48	0.1	39.5	9.4	401	2.22	7.6	1.8	3.8	27	0.1	0.5	0.1	48	0.37	0.046	13
1201707	Soil	5.7	53.1	9.4	74	0.3	106.5	13.5	467	2.84	6.7	1.3	5.2	24	0.2	0.4	0.2	43	0.25	0.043	16
1200303	Soil	0.9	19.7	5.9	36	<0.1	29.7	6.2	236	1.66	5.7	0.9	3.2	24	0.2	0.4	<0.1	38	0.31	0.049	11
1200307	Soil	1.6	27.3	7.7	47	0.2	35.2	9.2	379	2.14	7.3	2.2	3.5	28	0.2	0.7	<0.1	47	0.39	0.056	12
1201702	Soil	12.0	51.5	30.1	62	0.3	72.3	8.0	287	2.67	5.7	<0.5	7.6	40	0.2	0.3	0.2	25	0.08	0.042	15
1200309	Soil	0.9	22.5	6.3	43	0.2	28.5	7.5	294	1.92	5.9	1.9	3.6	25	0.1	0.5	<0.1	45	0.33	0.056	12
1200305	Soil	1.1	21.9	7.4	42	0.2	30.7	8.3	323	1.84	7.2	22.9	3.2	26	0.2	0.5	<0.1	41	0.36	0.047	11
1201703	Soil	8.5	47.5	14.9	55	0.2	74.2	7.4	215	2.51	4.0	0.7	6.6	26	0.2	0.2	0.2	23	0.11	0.034	13
1201708	Soil	5.5	69.6	10.0	89	0.4	129.0	18.2	608	3.74	10.4	1.6	5.8	25	0.2	0.5	0.1	52	0.22	0.040	15
1201709	Soil	1.6	29.4	7.0	44	0.2	48.4	8.9	424	2.13	7.6	2.7	3.3	29	0.1	0.4	<0.1	42	0.36	0.052	13
1175733	Soil	1.5	130.5	16.9	222	0.4	8.7	6.0	311	1.68	2.5	2.1	3.6	17	<0.1	0.1	0.1	25	0.08	0.015	13
1175725	Soil	0.1	11.7	11.5	46	1.5	22.6	6.7	420	2.59	0.7	1.6	3.4	16	<0.1	<0.1	<0.1	45	0.16	0.018	10
1175730	Soil	0.3	49.9	5.5	72	0.2	6.7	3.5	311	0.88	1.8	0.6	1.9	38	0.2	0.1	<0.1	19	0.12	0.012	6
1175728	Soil	0.7	16.2	4.4	57	0.5	23.1	4.7	257	2.46	1.3	1.5	7.1	11	<0.1	0.1	<0.1	18	0.09	0.015	23
1169193	Soil	0.3	54.4	5.6	102	1.4	31.9	13.5	765	4.20	1.0	1.3	2.0	34	<0.1	0.1	<0.1	80	0.70	0.186	12
1169191	Soil	0.2	8.2	5.4	51	1.0	18.9	6.7	324	2.39	1.3	<0.5	3.9	14	<0.1	<0.1	<0.1	30	0.18	0.028	17
1175720	Soil	2.5	171.2	4.1	101	0.7	42.5	10.1	1040	3.32	0.7	2.0	3.8	18	<0.1	<0.1	<0.1	49	0.11	0.028	11
1175727	Soil	0.4	53.7	5.8	127	0.7	25.4	5.8	510	3.00	1.3	0.8	5.6	17	0.1	0.2	<0.1	36	0.16	0.024	23
1175731	Soil	0.4	76.7	9.3	147	1.0	13.9	6.1	426	1.59	3.3	1.8	2.7	16	0.5	0.2	<0.1	33	0.13	0.013	11
1175722	Soil	0.1	36.6	4.2	118	0.8	31.5	19.8	1229	5.45	0.6	1.1	1.2	30	<0.1	<0.1	<0.1	151	0.52	0.086	8
1175740	Soil	0.2	10.5	8.4	51	0.3	17.0	8.2	555	2.76	1.8	0.9	3.0	17	<0.1	0.1	<0.1	51	0.19	0.035	14
1175712	Soil	3.7	60.8	10.7	97	3.7	134.0	22.1	754	3.74	1.4	0.9	4.9	23	0.2	0.2	<0.1	68	0.44	0.087	17
1175713	Soil	5.1	87.6	15.9	101	6.7	141.1	24.3	718	3.61	0.9	1.8	5.6	27	0.2	0.2	0.1	68	0.29	0.038	22



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Report Date: April 16, 2012

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Project: VOL
Report Date: April 16, 2012

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit	MDL	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15															
		Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm
1169194	Soil	18	0.96	395	0.099	<1	1.35	0.015	0.70	1.3	<0.01	5.2	0.2	<0.05	6	<0.5	<0.2
1175726	Soil	34	2.29	539	0.098	1	2.55	0.024	0.63	0.6	<0.01	9.2	0.3	<0.05	8	<0.5	<0.2
1175716	Soil	20	0.61	291	0.065	<1	1.12	0.011	0.33	0.7	0.07	10.2	0.2	<0.05	7	<0.5	<0.2
1175729	Soil	25	1.30	338	0.099	<1	1.75	0.016	0.71	1.2	<0.01	5.6	0.4	<0.05	8	<0.5	<0.2
1175723	Soil	142	1.36	435	0.090	<1	1.50	0.024	0.32	0.7	0.03	6.9	0.3	<0.05	6	0.6	<0.2
1175737	Soil	31	1.32	204	0.076	<1	1.57	0.023	0.41	1.7	0.01	4.6	0.2	<0.05	7	<0.5	<0.2
1175736	Soil	18	0.45	177	0.040	<1	1.06	0.009	0.08	0.8	0.02	3.3	0.2	<0.05	4	<0.5	<0.2
1175714	Soil	30	0.66	272	0.069	<1	1.19	0.013	0.26	0.6	0.02	7.5	0.2	<0.05	5	<0.5	<0.2
1175734	Soil	12	0.38	276	0.053	<1	0.84	0.016	0.12	0.8	0.02	2.4	0.2	<0.05	4	<0.5	<0.2
1175715	Soil	30	0.81	312	0.068	1	1.33	0.012	0.31	0.5	0.04	8.7	0.2	<0.05	6	<0.5	<0.2
1169196	Soil	16	0.91	314	0.094	<1	1.27	0.019	0.58	0.9	0.02	5.8	0.3	<0.05	6	<0.5	<0.2
1175719	Soil	12	0.80	427	0.058	<1	1.27	0.011	0.57	0.9	0.05	6.4	0.3	<0.05	6	<0.5	<0.2
1175732	Soil	24	0.50	207	0.054	2	1.32	0.014	0.07	0.9	<0.01	3.7	0.1	<0.05	5	<0.5	<0.2
1175738	Soil	61	1.88	271	0.072	<1	2.27	0.018	0.33	1.0	0.01	10.7	0.2	<0.05	8	<0.5	<0.2
1175724	Soil	20	0.63	315	0.043	2	1.11	0.014	0.29	0.7	0.02	8.2	0.2	<0.05	5	<0.5	<0.2
1175800	Soil	117	0.81	314	0.054	2	1.42	0.010	0.17	0.2	0.02	10.6	0.3	<0.05	5	0.7	<0.2
1175718	Soil	27	0.45	274	0.032	2	0.97	0.011	0.20	0.7	0.07	8.7	0.2	<0.05	4	<0.5	<0.2
1175799	Soil	50	0.52	237	0.062	2	1.26	0.014	0.06	0.2	0.03	6.0	<0.1	<0.05	4	<0.5	<0.2
1175721	Soil	21	1.11	943	0.115	<1	1.76	0.014	0.70	0.1	0.04	9.4	0.4	<0.05	8	0.7	<0.2
1175735	Soil	19	0.46	196	0.030	<1	1.04	0.015	0.09	1.2	0.01	4.3	0.1	<0.05	4	<0.5	<0.2
1175717	Soil	14	0.32	359	0.017	1	0.77	0.007	0.16	1.1	0.08	9.0	0.2	<0.05	4	<0.5	<0.2
1175739	Soil	36	1.05	384	0.098	1	1.51	0.021	0.53	1.2	0.01	5.9	0.3	<0.05	6	<0.5	<0.2
1169192	Soil	15	0.53	283	0.042	2	1.00	0.017	0.24	1.9	<0.01	6.6	0.2	<0.05	5	<0.5	<0.2
1175947	Soil	21	0.61	516	0.059	<1	1.19	0.016	0.33	0.5	0.02	4.9	0.2	0.17	6	2.7	0.4
1175911	Soil	44	0.77	268	0.079	1	1.01	0.036	0.44	2.1	0.01	5.1	0.2	<0.05	5	<0.5	<0.2
1175914	Soil	25	0.66	324	0.047	1	1.00	0.017	0.27	1.1	0.01	4.9	0.2	<0.05	4	<0.5	<0.2
1175926	Soil	25	0.46	251	0.049	2	0.95	0.014	0.27	1.5	0.04	5.4	0.2	<0.05	4	<0.5	<0.2
1175928	Soil	31	0.49	248	0.063	<1	1.24	0.019	0.09	1.1	0.02	4.8	<0.1	<0.05	4	<0.5	<0.2
1175921	Soil	7	0.98	183	0.025	<1	1.38	0.011	0.10	0.6	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
1175924	Soil	6	1.62	174	0.042	<1	2.04	0.009	0.23	1.9	<0.01	2.9	0.2	<0.05	7	<0.5	<0.2



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Report Date: April 16, 2012

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Method Analyte Unit	1DX15 1DX15																							
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La				
MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm
1175935	0.6	19.6	7.8	71	0.7	17.8	8.8	588	2.56	4.4	1.2	3.5	19	0.1	0.3	<0.1	56	0.19	0.022	13				
1175918	0.4	243.8	7.4	552	1.1	13.8	8.4	806	2.84	<0.5	4.1	3.8	21	0.3	<0.1	<0.1	43	0.17	0.013	23				
1175925	0.6	32.4	8.0	76	1.1	13.4	6.0	237	2.05	5.5	1.3	2.9	21	<0.1	0.3	<0.1	43	0.23	0.041	11				
1175933	0.3	16.9	5.1	47	0.6	10.6	6.0	729	1.83	1.6	<0.5	2.9	23	<0.1	0.1	<0.1	29	0.12	0.036	9				
1175938	0.4	21.0	10.1	66	0.9	12.3	7.0	539	2.37	2.1	1.2	4.1	35	0.1	0.1	<0.1	47	0.23	0.033	16				
1175901	0.5	42.8	7.5	64	7.9	11.7	23.7	624	2.34	1.8	0.7	3.2	23	<0.1	0.2	<0.1	29	0.11	0.019	10				
1175912	0.2	34.3	6.5	205	2.5	15.5	8.4	629	2.27	0.8	<0.5	2.7	27	0.1	0.1	<0.1	48	0.25	0.028	15				
1175939	0.3	19.8	9.6	62	0.6	12.4	6.7	552	2.27	2.5	0.6	3.9	33	<0.1	0.2	<0.1	46	0.23	0.035	15				
1175932	0.4	33.6	7.0	80	0.5	16.5	9.5	858	2.94	1.7	1.3	3.4	25	<0.1	0.1	<0.1	60	0.32	0.039	16				
1175931	0.4	26.5	7.5	70	0.9	15.5	7.0	633	2.70	3.3	<0.5	4.0	21	<0.1	0.3	<0.1	41	0.31	0.062	18				
1175915	0.5	30.9	4.6	74	1.5	28.6	15.4	660	3.53	3.3	<0.5	3.0	17	<0.1	0.2	<0.1	83	0.21	0.028	12				
1175930	0.1	28.1	7.3	108	0.3	23.2	9.3	890	3.22	0.9	<0.5	3.5	18	0.1	<0.1	<0.1	47	0.31	0.070	18				
1175917	0.3	134.4	9.6	251	1.1	8.6	5.3	385	1.76	1.3	1.2	3.9	23	0.2	0.1	<0.1	27	0.11	0.007	14				
1175902	0.9	38.9	5.6	87	3.2	21.5	13.4	1079	3.67	2.9	1.4	3.8	29	<0.1	0.3	<0.1	54	0.11	0.022	10				
1175920	0.5	44.7	9.5	101	1.5	13.4	6.0	290	1.57	4.5	12.1	3.1	14	0.3	0.2	<0.1	29	0.09	0.017	9				
1175940	0.7	20.5	6.6	45	0.5	20.1	7.0	456	2.04	7.4	1.7	4.1	23	<0.1	0.4	<0.1	45	0.26	0.042	14				
1175913	0.5	23.0	7.6	68	2.3	16.8	9.5	555	2.88	4.0	0.8	3.5	18	<0.1	0.2	<0.1	60	0.20	0.022	15				
1175927	0.6	36.0	8.3	93	1.2	15.1	7.8	366	2.44	5.0	1.4	4.1	24	0.1	0.4	<0.1	45	0.27	0.031	15				
1175919	0.9	90.7	10.5	119	1.5	18.9	9.3	365	2.32	7.3	2.5	4.3	14	0.2	0.4	0.2	46	0.13	0.022	12				
1175922	0.1	20.3	6.7	89	0.9	6.2	4.2	199	1.37	1.1	<0.5	2.3	15	<0.1	<0.1	<0.1	24	0.09	0.007	8				
1175916	0.5	44.1	7.9	167	0.8	7.3	4.1	294	1.92	1.7	1.8	3.3	13	0.1	<0.1	<0.1	24	0.08	0.011	11				
1175934	0.4	28.8	7.9	81	1.4	21.1	11.5	877	2.74	1.7	0.8	4.5	25	0.1	<0.1	<0.1	54	0.28	0.061	8				
1175923	0.1	5.3	4.3	34	0.3	1.3	4.0	182	1.38	<0.5	1.2	6.6	3	<0.1	<0.1	<0.1	7	0.05	0.024	42				
1175929	0.3	38.4	9.7	109	0.7	9.7	6.7	949	3.53	1.8	0.5	4.4	17	0.2	0.2	<0.1	47	0.22	0.054	34				
1175936	0.5	26.4	12.4	77	1.7	14.5	8.9	891	2.77	2.0	0.6	4.3	22	<0.1	0.2	<0.1	53	0.23	0.028	14				
1175937	0.5	20.8	8.8	56	1.0	14.0	7.4	578	2.03	3.5	0.8	3.6	23	<0.1	0.2	<0.1	38	0.17	0.036	9				
1175797	0.5	100.9	12.7	59	0.1	15.5	9.3	1304	2.47	2.4	1.8	2.5	31	0.1	0.1	0.1	32	0.11	0.023	6				
1175792	2.4	32.8	8.2	54	0.2	43.0	8.2	326	2.13	4.8	21.9	3.5	27	0.2	0.3	0.1	35	0.20	0.033	9				
1175791	0.9	21.7	6.3	38	0.2	20.8	8.5	438	2.00	6.0	5.8	3.0	24	0.1	0.4	0.1	44	0.32	0.061	14				
1175795	0.8	42.3	6.8	45	0.1	20.2	7.1	422	2.21	6.7	53.8	3.4	22	<0.1	0.4	<0.1	45	0.23	0.043	12				



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Method Analyte Unit	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15																			
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
1175793	Soil	1.0	30.7	8.7	50	0.2	35.6	8.0	435	2.12	5.4	2.6	3.6	25	0.1	0.3	<0.1	39	0.24	0.027
1175794	Soil	0.8	31.4	9.8	55	0.2	20.1	9.2	600	2.41	6.7	4.2	3.3	30	0.2	0.5	0.1	48	0.34	0.043
1175796	Soil	0.8	84.8	10.5	51	0.2	19.8	7.9	732	2.43	5.1	2.2	2.5	32	<0.1	0.3	0.1	37	0.26	0.028
1175771	Soil	0.8	40.0	5.6	118	0.5	36.7	11.9	1546	5.44	1.1	1.0	2.3	14	0.1	0.2	<0.1	53	0.43	0.153
1175770	Soil	0.9	32.7	5.4	108	1.2	30.6	12.7	972	5.20	3.6	3.2	2.7	16	<0.1	0.3	<0.1	58	0.48	0.159
1175788	Soil	0.7	21.6	8.9	56	0.2	17.8	8.4	390	2.17	6.8	2.8	3.7	24	0.1	0.4	0.1	47	0.25	0.024
1175782	Soil	0.6	77.6	15.2	217	0.2	8.9	5.5	387	3.02	1.7	1.2	4.9	15	0.3	0.1	0.1	27	0.09	0.019
1175783	Soil	0.9	38.3	10.0	82	0.2	18.8	6.7	352	2.12	7.0	3.1	3.9	19	<0.1	0.4	0.1	41	0.22	0.020
1175785	Soil	0.6	28.4	6.3	79	<0.1	13.2	4.9	287	1.67	4.0	1.2	4.3	17	0.1	0.3	<0.1	33	0.15	0.022
1175772	Soil	0.5	12.4	7.5	37	0.3	10.4	4.5	378	1.77	1.5	<0.5	2.2	11	<0.1	0.2	<0.1	31	0.11	0.028
1175786	Soil	0.4	38.1	6.0	104	0.2	7.5	3.7	310	1.78	1.7	0.8	4.2	20	0.2	0.1	<0.1	26	0.13	0.014
1175777	Soil	0.7	12.6	4.5	37	0.1	8.8	6.0	425	3.28	3.1	0.7	5.4	15	<0.1	0.2	<0.1	24	0.18	0.026
1175784	Soil	0.5	27.8	10.2	50	0.1	14.3	5.3	214	1.48	3.9	2.6	3.3	20	<0.1	0.3	0.1	29	0.13	0.017
1175778	Soil	1.0	21.5	3.7	32	<0.1	7.5	5.4	262	3.30	1.8	1.8	5.3	12	<0.1	0.1	0.1	21	0.14	0.025
1175787	Soil	0.6	41.1	7.7	127	0.1	10.4	4.5	221	1.70	2.6	1.1	4.0	33	<0.1	0.2	<0.1	28	0.13	0.015
1175776	Soil	0.9	21.4	7.0	46	0.2	16.6	8.7	322	2.88	6.4	1.8	4.5	21	0.1	0.4	0.1	45	0.21	0.027
1175775	Soil	0.5	17.6	10.3	42	0.1	8.8	5.4	284	1.66	2.0	1.1	3.7	11	<0.1	0.2	<0.1	25	0.06	0.019
1175774	Soil	0.4	23.5	8.4	65	<0.1	6.9	7.8	639	3.21	0.6	1.9	4.0	19	<0.1	0.1	<0.1	35	0.09	0.017
1175773	Soil	0.5	12.9	6.1	44	0.2	8.8	6.2	459	2.47	1.4	0.8	4.5	17	<0.1	0.2	<0.1	34	0.12	0.020
1175706	Soil	1.3	36.7	12.4	74	0.2	21.7	9.4	849	2.52	3.5	4.5	3.1	19	0.2	0.3	<0.1	38	0.09	0.019
1175780	Soil	0.6	14.8	6.8	56	0.1	13.4	7.7	345	3.36	0.9	1.0	4.0	17	<0.1	<0.1	<0.1	41	0.17	0.013
1175789	Soil	0.8	24.1	7.7	47	0.2	22.7	8.6	423	2.32	5.7	20.1	3.5	23	<0.1	0.5	<0.1	53	0.31	0.041
1175790	Soil	0.5	30.9	7.5	69	0.2	20.2	11.3	642	3.35	3.6	2.5	3.7	21	<0.1	0.3	0.1	72	0.30	0.035
1175781	Soil	1.3	35.1	13.0	112	0.2	7.4	8.3	444	3.21	1.2	1.7	5.1	13	0.1	0.1	<0.1	22	0.11	0.013
1175703	Soil	1.0	54.4	7.2	124	<0.1	20.7	12.7	766	3.36	3.1	<0.5	2.7	29	0.1	0.3	0.2	64	0.22	0.022
1175702	Soil	1.8	83.4	9.1	148	0.2	30.9	17.7	1415	5.18	2.6	<0.5	2.6	27	<0.1	0.2	0.3	85	0.26	0.025
1175701	Soil	1.3	105.0	9.8	105	0.3	18.6	11.3	1234	2.73	4.4	<0.5	2.1	19	0.2	0.3	0.1	49	0.15	0.034
1175704	Soil	0.7	24.5	8.5	53	0.2	12.0	8.3	568	2.39	4.2	<0.5	2.6	24	0.2	0.3	<0.1	44	0.23	0.033
1175779	Soil	0.2	7.3	6.5	37	<0.1	5.5	4.7	210	1.93	0.5	<0.5	3.2	21	<0.1	0.1	<0.1	21	0.17	0.013
1175707	Soil	1.0	19.5	8.5	46	0.2	18.4	7.7	325	2.08	7.0	<0.5	3.5	20	0.1	0.4	0.2	44	0.25	0.033



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit	MDL	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15															
		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
1175793	Soil	38	0.29	256	0.032	1	0.81	0.009	0.06	1.2	0.02	4.8	<0.1	<0.05	3	<0.5	<0.2
1175794	Soil	29	0.35	374	0.046	1	1.18	0.012	0.07	1.1	0.03	5.1	<0.1	<0.05	4	<0.5	<0.2
1175796	Soil	21	0.21	244	0.021	2	0.77	0.006	0.08	1.0	0.04	5.2	<0.1	<0.05	3	<0.5	<0.2
1175771	Soil	23	0.18	332	0.011	<1	0.72	0.011	0.08	0.9	0.09	14.0	0.1	<0.05	5	<0.5	<0.2
1175770	Soil	22	0.24	210	0.018	<1	1.04	0.010	0.06	0.9	0.09	13.4	0.1	<0.05	6	<0.5	<0.2
1175788	Soil	30	0.48	302	0.071	2	1.18	0.015	0.08	1.0	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
1175782	Soil	12	1.04	386	0.058	<1	1.59	0.009	0.58	1.5	<0.01	4.8	0.4	<0.05	7	<0.5	<0.2
1175783	Soil	27	0.41	293	0.050	1	1.16	0.011	0.07	0.8	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
1175785	Soil	21	0.39	222	0.039	<1	0.82	0.012	0.09	1.2	0.02	3.8	<0.1	<0.05	3	<0.5	<0.2
1175772	Soil	15	0.12	149	0.010	<1	0.56	0.010	0.08	1.4	0.01	3.2	<0.1	<0.05	2	<0.5	<0.2
1175786	Soil	13	0.51	273	0.040	<1	0.94	0.013	0.18	1.7	0.02	4.8	0.2	<0.05	4	<0.5	<0.2
1175777	Soil	13	1.03	270	0.044	<1	1.68	0.009	0.19	0.9	0.01	5.6	0.1	<0.05	6	<0.5	<0.2
1175784	Soil	20	0.22	185	0.036	<1	0.73	0.017	0.05	1.4	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2
1175778	Soil	10	0.87	212	0.030	<1	1.36	0.010	0.13	1.4	0.01	6.4	<0.1	<0.05	5	<0.5	<0.2
1175787	Soil	19	0.40	222	0.040	<1	0.94	0.014	0.06	1.7	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
1175776	Soil	26	0.69	249	0.048	2	1.64	0.009	0.09	0.5	0.02	6.6	0.1	<0.05	5	<0.5	<0.2
1175775	Soil	13	0.22	92	0.022	<1	0.71	0.014	0.09	1.7	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
1175774	Soil	11	0.55	200	0.037	<1	1.10	0.008	0.20	1.1	0.06	9.5	0.2	<0.05	7	<0.5	<0.2
1175773	Soil	14	0.45	210	0.035	<1	0.97	0.012	0.17	1.1	<0.01	6.2	0.1	<0.05	4	<0.5	<0.2
1175706	Soil	18	0.13	336	0.015	<1	0.63	0.004	0.07	1.7	0.03	5.9	<0.1	<0.05	3	<0.5	<0.2
1175780	Soil	24	1.45	477	0.090	<1	1.99	0.007	0.57	1.0	0.02	8.0	0.4	<0.05	8	<0.5	<0.2
1175789	Soil	32	0.48	331	0.056	1	1.09	0.011	0.08	0.8	0.03	5.4	<0.1	<0.05	4	<0.5	<0.2
1175790	Soil	36	0.92	431	0.088	1	1.59	0.012	0.34	1.1	0.02	8.6	0.2	<0.05	7	<0.5	<0.2
1175781	Soil	9	1.33	283	0.044	<1	1.79	0.006	0.19	1.3	0.01	5.6	0.2	<0.05	6	<0.5	<0.2
1175703	Soil	26	0.50	451	0.032	2	1.10	0.007	0.18	1.1	0.09	8.9	0.1	<0.05	4	<0.5	<0.2
1175702	Soil	40	0.91	844	0.069	3	1.60	0.008	0.54	1.3	0.07	12.8	0.3	<0.05	6	<0.5	<0.2
1175701	Soil	32	0.22	275	0.025	1	0.73	0.006	0.10	1.2	0.05	5.7	<0.1	<0.05	3	<0.5	<0.2
1175704	Soil	19	0.37	891	0.035	2	0.92	0.009	0.13	1.8	0.02	5.2	<0.1	<0.05	4	<0.5	<0.2
1175779	Soil	11	0.97	295	0.053	<1	1.20	0.014	0.22	1.3	0.02	5.5	0.2	<0.05	5	<0.5	<0.2
1175707	Soil	28	0.37	307	0.049	1	1.06	0.010	0.06	0.9	0.02	3.9	0.1	<0.05	3	<0.5	<0.2



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Method Analyte Unit	MDL	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15																1DX15 1DX15 1DX15 1DX15			
		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm
1200110	Soil	1.1	29.6	9.0	75	0.1	23.4	11.1	859	3.49	4.9	1.6	3.0	18	0.1	0.4	<0.1	54	0.26	0.032	10
1200143	Soil	0.9	47.5	6.0	44	0.1	31.6	13.0	370	2.65	5.7	0.7	2.4	19	<0.1	0.3	<0.1	66	0.35	0.040	9
1200142	Soil	1.3	61.2	7.6	62	0.1	91.3	18.2	425	3.40	6.4	1.7	3.5	20	0.1	0.3	<0.1	79	0.42	0.042	13
1200147	Soil	0.8	25.4	5.1	65	0.1	24.3	15.3	881	3.73	3.1	1.2	2.8	34	0.1	0.3	<0.1	75	0.61	0.049	13
1200108	Soil	1.2	21.7	6.7	48	0.2	19.9	8.1	393	2.84	4.0	1.4	3.4	17	0.1	0.3	<0.1	41	0.25	0.028	10
1200112	Soil	1.0	31.1	8.1	65	0.2	43.6	10.3	575	3.05	7.7	1.6	3.5	15	<0.1	0.5	<0.1	49	0.23	0.035	13
1200036	Soil	1.0	63.4	11.0	71	0.3	43.2	16.7	653	3.12	2.7	1.3	3.7	17	<0.1	0.3	0.1	66	0.35	0.053	8
1200146	Soil	0.7	61.9	4.4	50	0.1	37.2	18.2	550	2.88	3.6	1.7	1.8	17	<0.1	0.2	<0.1	76	0.32	0.048	11
1200111	Soil	0.8	22.2	7.1	41	0.1	29.4	8.1	384	2.06	7.4	2.1	3.0	18	<0.1	0.4	0.1	40	0.25	0.037	9
1200109	Soil	0.8	18.0	7.7	41	0.2	22.8	9.0	550	2.10	5.7	1.5	2.9	20	<0.1	0.4	0.1	45	0.29	0.032	11
1200124	Soil	0.9	22.7	6.6	57	0.2	17.8	9.5	546	3.02	4.6	2.0	2.6	16	<0.1	0.4	0.1	47	0.21	0.039	12
1200101	Soil	1.0	29.9	9.7	59	0.1	27.5	12.0	730	2.92	6.2	2.2	3.3	23	0.1	0.6	0.1	55	0.31	0.042	13
1200105	Soil	1.1	21.6	7.3	60	0.1	20.4	7.9	431	2.99	5.3	8.9	2.9	16	<0.1	0.4	0.1	45	0.23	0.030	11
1200149	Soil	0.9	12.5	7.7	43	<0.1	15.6	6.4	291	2.19	4.1	1.2	2.3	13	<0.1	0.3	<0.1	38	0.12	0.031	8
1200106	Soil	0.8	19.9	11.8	39	0.1	20.6	7.1	379	1.99	5.8	6.5	3.1	19	<0.1	0.5	<0.1	39	0.26	0.045	11
1200103	Soil	0.7	24.0	8.2	45	<0.1	24.6	8.3	353	2.35	4.7	1.5	2.6	17	<0.1	0.4	<0.1	41	0.19	0.020	9
1200122	Soil	0.7	16.1	5.8	45	0.2	18.9	7.6	318	1.74	5.8	4.5	2.5	22	0.2	0.4	<0.1	41	0.28	0.061	11
1200107	Soil	0.8	20.7	7.1	39	0.1	21.8	7.5	385	2.04	5.9	1.8	3.3	19	0.1	0.5	<0.1	40	0.27	0.045	12
1200102	Soil	1.0	36.5	8.6	69	<0.1	31.8	11.7	482	3.63	4.3	1.6	3.3	20	<0.1	0.4	<0.1	58	0.26	0.021	14
1200125	Soil	0.6	19.0	5.9	44	0.1	20.1	8.0	495	1.82	5.9	3.6	2.8	26	0.2	0.4	<0.1	43	0.31	0.066	12
1200104	Soil	1.0	31.8	8.6	85	<0.1	30.8	10.7	602	3.48	5.1	2.4	3.3	25	<0.1	0.5	<0.1	54	0.26	0.028	13
1200029	Soil	0.4	18.6	5.0	45	<0.1	14.9	8.2	431	2.87	3.4	<0.5	3.3	17	<0.1	0.2	<0.1	56	0.22	0.043	19
1200028	Soil	2.2	6.3	1.9	33	<0.1	2.2	5.5	334	3.18	1.2	<0.5	3.7	13	<0.1	<0.1	<0.1	13	0.09	0.036	17
1200037	Soil	1.1	53.2	15.8	75	0.2	71.7	18.8	803	3.19	3.5	<0.5	3.5	25	0.2	0.3	0.2	71	0.53	0.097	12
1200150	Soil	0.5	8.3	10.7	35	<0.1	7.9	4.9	310	1.70	2.3	<0.5	3.4	11	<0.1	0.2	<0.1	27	0.08	0.028	7
1200031	Soil	0.5	35.6	10.5	60	0.1	52.4	13.5	518	2.49	3.4	0.5	3.1	15	<0.1	0.4	0.1	47	0.19	0.027	8
1200027	Soil	0.7	7.2	4.1	34	0.1	6.4	6.8	351	2.40	3.3	0.5	3.5	10	<0.1	0.2	<0.1	23	0.08	0.025	11
1200148	Soil	0.4	7.5	9.4	29	<0.1	6.7	4.4	301	1.31	1.8	<0.5	3.1	9	<0.1	0.1	<0.1	21	0.05	0.014	5
1200121	Soil	0.6	15.0	9.9	42	0.1	17.7	7.1	301	1.68	5.4	3.8	2.6	21	0.1	0.4	<0.1	39	0.26	0.058	10
1200032	Soil	0.8	35.2	6.2	69	0.5	50.6	17.9	943	2.95	4.7	<0.5	2.5	35	0.3	0.5	<0.1	82	0.67	0.129	5



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		Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm
1200110	Soil	23	0.22	307	0.029	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5
1200143	Soil	39	0.68	296	0.069	<1	1.22	0.017	0.10	1.1	0.01	5.9	0.1	<0.05	4	<0.5	<0.2
1200142	Soil	103	1.18	353	0.101	1	1.72	0.015	0.33	0.9	0.05	7.2	0.3	<0.05	6	0.7	<0.2
1200147	Soil	31	0.62	353	0.050	1	1.20	0.008	0.18	1.3	0.02	12.1	0.1	<0.05	5	<0.5	<0.2
1200108	Soil	25	0.40	241	0.040	<1	0.99	0.009	0.09	1.2	0.04	5.2	0.1	<0.05	4	0.6	<0.2
1200112	Soil	41	0.34	250	0.030	<1	0.99	0.008	0.07	1.2	0.07	6.7	0.1	<0.05	4	<0.5	<0.2
1200036	Soil	51	0.77	272	0.068	1	1.17	0.017	0.32	1.7	0.05	7.4	0.4	<0.05	5	<0.5	<0.2
1200146	Soil	51	0.94	402	0.101	1	1.39	0.026	0.29	1.1	<0.01	6.7	0.2	<0.05	5	<0.5	<0.2
1200111	Soil	30	0.33	221	0.039	2	0.87	0.011	0.06	1.4	0.03	4.0	<0.1	<0.05	3	<0.5	<0.2
1200109	Soil	30	0.36	342	0.055	1	1.06	0.012	0.06	1.0	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
1200124	Soil	25	0.30	227	0.036	<1	1.01	0.008	0.04	1.5	0.03	6.3	0.1	<0.05	5	<0.5	<0.2
1200101	Soil	36	0.41	288	0.059	<1	1.33	0.015	0.05	0.7	0.04	6.6	<0.1	<0.05	5	<0.5	<0.2
1200105	Soil	26	0.32	200	0.046	1	1.02	0.011	0.09	1.2	0.06	6.1	0.1	<0.05	4	<0.5	<0.2
1200149	Soil	24	0.47	135	0.040	1	1.05	0.011	0.12	1.7	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
1200106	Soil	24	0.32	189	0.043	1	0.78	0.014	0.06	1.3	0.03	4.4	<0.1	<0.05	3	<0.5	<0.2
1200103	Soil	31	0.31	184	0.047	1	0.95	0.019	0.05	1.1	0.04	5.2	<0.1	<0.05	4	<0.5	<0.2
1200122	Soil	27	0.33	237	0.044	2	0.95	0.012	0.06	1.4	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
1200107	Soil	25	0.33	199	0.044	2	0.80	0.013	0.06	1.5	0.03	4.5	<0.1	<0.05	3	<0.5	<0.2
1200102	Soil	39	0.35	216	0.058	<1	1.29	0.010	0.07	0.7	0.05	8.9	0.1	<0.05	5	<0.5	<0.2
1200125	Soil	28	0.36	314	0.045	1	1.01	0.013	0.04	0.6	0.04	3.6	<0.1	<0.05	3	<0.5	<0.2
1200104	Soil	36	0.37	242	0.046	1	1.10	0.010	0.08	1.2	0.10	8.6	0.1	<0.05	4	<0.5	<0.2
1200029	Soil	21	0.86	157	0.069	1	1.47	0.015	0.19	0.9	0.02	5.9	0.1	<0.05	7	<0.5	<0.2
1200028	Soil	4	1.00	169	0.058	<1	1.54	0.012	0.25	2.3	<0.01	5.8	<0.1	<0.05	7	<0.5	<0.2
1200037	Soil	68	0.89	324	0.087	1	1.30	0.016	0.27	1.7	0.07	6.6	0.3	<0.05	6	<0.5	<0.2
1200150	Soil	13	0.28	110	0.029	<1	0.73	0.011	0.12	1.3	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
1200031	Soil	53	0.50	175	0.037	<1	1.11	0.009	0.07	0.8	0.06	5.8	0.2	<0.05	4	<0.5	<0.2
1200027	Soil	12	0.45	106	0.041	<1	1.08	0.012	0.14	1.2	<0.01	5.5	0.1	<0.05	4	<0.5	<0.2
1200148	Soil	11	0.15	87	0.011	<1	0.54	0.013	0.05	1.4	<0.01	2.4	<0.1	<0.05	2	<0.5	<0.2
1200121	Soil	26	0.31	214	0.041	1	0.89	0.013	0.06	1.2	0.03	3.0	<0.1	<0.05	3	<0.5	<0.2
1200032	Soil	74	1.07	393	0.053	3	1.47	0.017	0.39	1.0	0.04	6.0	0.2	<0.05	6	<0.5	<0.2



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Method Analyte Unit	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15																			
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
1200123	Soil	1.1	35.0	8.8	60	0.1	38.7	10.6	447	2.53	6.4	21.3	3.3	25	0.2	0.7	0.1	49	0.35	0.062
1200034	Soil	0.7	45.2	11.4	66	0.2	55.4	17.6	824	3.22	4.7	<0.5	1.9	31	0.2	0.4	<0.1	92	0.56	0.049
1200033	Soil	0.8	38.5	7.4	58	0.2	63.2	18.7	818	3.05	5.6	<0.5	3.3	21	0.1	0.4	<0.1	80	0.30	0.040
1200030	Soil	0.6	22.1	11.2	50	0.2	19.2	9.1	424	2.67	5.0	<0.5	3.5	23	0.2	0.3	<0.1	64	0.26	0.036
1200035	Soil	1.0	39.8	6.9	60	0.2	59.8	19.2	996	2.89	4.7	<0.5	2.3	26	0.1	0.3	<0.1	74	0.43	0.052
1200010	Soil	4.2	55.0	12.4	80	1.2	120.0	17.9	514	3.37	2.5	0.8	4.7	31	0.1	0.2	0.1	59	0.38	0.058
1200013	Soil	6.4	68.9	13.7	100	0.6	196.4	22.1	809	3.47	3.2	0.5	4.5	52	0.3	0.3	0.2	68	0.23	0.028
1200002	Soil	3.7	43.6	14.6	71	0.3	5.9	4.7	589	4.22	1.2	2.9	2.2	63	<0.1	0.2	0.7	31	0.10	0.042
1200007	Soil	0.3	19.8	14.5	63	0.3	12.9	5.1	314	1.69	2.3	<0.5	4.8	19	<0.1	0.2	<0.1	29	0.18	0.026
1200009	Soil	4.5	60.4	11.7	76	1.1	73.4	12.6	526	2.86	2.1	<0.5	4.3	26	0.2	0.2	0.1	48	0.27	0.066
1200006	Soil	0.6	30.1	6.7	51	0.6	40.9	9.0	342	2.24	5.0	<0.5	3.3	17	<0.1	0.3	<0.1	50	0.21	0.021
1200012	Soil	0.9	22.5	8.1	42	0.6	27.7	7.4	293	1.98	6.2	1.6	3.7	21	<0.1	0.5	<0.1	44	0.24	0.030
1200008	Soil	0.5	28.3	7.3	65	1.5	28.1	8.4	446	2.40	2.6	1.6	3.9	23	<0.1	0.3	0.1	47	0.28	0.026
1200005	Soil	0.3	36.0	8.0	79	0.3	19.1	7.7	797	2.55	2.0	0.5	3.9	23	<0.1	0.2	<0.1	45	0.23	0.030
1200015	Soil	0.9	22.8	7.2	39	0.5	29.3	6.9	247	1.93	6.3	3.5	3.5	21	<0.1	0.4	0.1	43	0.26	0.039
1200011	Soil	2.0	39.7	11.3	57	0.7	59.5	11.0	562	2.44	4.5	1.0	4.1	26	<0.1	0.4	0.1	45	0.22	0.031
1200014	Soil	9.3	66.3	16.4	92	0.4	163.4	18.3	1051	2.87	2.5	<0.5	5.8	35	0.4	0.3	0.3	39	0.10	0.013
1200016	Soil	2.0	35.4	11.6	57	0.4	48.4	10.8	396	2.44	5.9	1.5	4.2	27	<0.1	0.6	0.1	52	0.30	0.035
1200017	Soil	1.6	29.3	8.8	45	0.7	42.4	8.7	304	2.06	4.6	0.8	3.6	26	<0.1	0.4	<0.1	44	0.24	0.040
1200003	Soil	0.8	37.8	5.8	121	0.5	16.6	8.6	500	2.61	1.7	<0.5	3.4	16	<0.1	<0.1	0.1	45	0.10	0.024
1200004	Soil	0.8	52.8	4.4	94	0.2	16.3	9.8	777	2.61	2.0	<0.5	2.8	15	<0.1	0.1	<0.1	50	0.10	0.023
1200018	Soil	1.9	34.3	12.9	54	0.4	42.8	10.3	428	2.38	6.2	2.2	3.8	29	<0.1	0.5	0.1	48	0.28	0.032
1200025	Soil	1.9	38.0	13.4	58	0.2	28.1	10.8	693	2.66	4.4	1.7	3.6	26	<0.1	0.5	0.1	53	0.21	0.023
1200026	Soil	0.9	30.5	9.8	57	0.6	21.4	9.1	449	2.45	4.5	1.5	3.9	24	<0.1	0.3	0.1	50	0.21	0.020
1200024	Soil	2.4	57.5	16.3	97	0.1	123.8	27.9	823	5.50	2.0	1.9	4.9	26	0.1	0.3	0.2	67	0.15	0.022
1200019	Soil	0.7	80.7	2.7	35	<0.1	33.0	12.1	393	2.61	2.2	1.1	0.8	29	0.1	0.2	<0.1	55	0.62	0.030
1200023	Soil	5.9	49.1	14.0	78	0.1	77.0	13.9	1029	2.61	1.5	<0.5	3.1	45	0.2	0.2	0.2	38	0.09	0.015
1200021	Soil	1.1	30.6	10.9	59	0.2	32.8	10.7	474	2.48	6.6	1.5	4.1	28	<0.1	0.5	0.1	53	0.39	0.045
1200020	Soil	0.8	33.6	11.3	57	0.1	32.3	10.5	425	2.68	6.5	1.3	4.3	30	0.1	0.5	0.2	58	0.41	0.039
1200022	Soil	0.9	29.1	11.4	55	0.3	30.0	9.6	312	2.40	5.6	1.6	4.0	26	<0.1	0.5	0.1	49	0.31	0.028



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	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
1200139	0.8	27.0	9.1	56	0.1	19.3	8.0	524	2.37	5.0	0.6	3.5	21	<0.1	0.4	0.1	49	0.21	0.019	12
1200126	0.7	33.1	11.1	65	0.1	20.6	9.3	516	2.67	4.7	1.2	3.9	24	<0.1	0.4	0.1	55	0.25	0.019	13
1200128	0.5	24.1	9.9	79	<0.1	18.9	8.1	672	3.01	3.4	1.3	4.8	26	<0.1	0.3	0.1	55	0.30	0.033	21
1200132	0.7	17.9	6.6	44	<0.1	16.1	6.6	238	1.93	6.6	<0.5	3.2	23	<0.1	0.4	<0.1	44	0.26	0.045	13
1200133	0.7	17.6	6.8	45	0.1	14.4	6.6	272	1.94	6.9	2.4	2.8	20	<0.1	0.4	<0.1	45	0.24	0.049	10
1200130	0.7	28.5	11.6	62	0.2	20.2	8.4	769	2.82	5.1	1.5	3.8	23	<0.1	0.3	<0.1	48	0.36	0.030	14
1200131	0.6	22.3	9.2	57	0.1	17.7	7.5	355	2.37	5.7	1.1	3.4	22	<0.1	0.4	0.1	49	0.22	0.020	12
1200127	0.5	20.6	32.1	55	0.1	15.1	6.4	587	1.87	2.3	3.0	3.4	28	<0.1	0.2	<0.1	34	0.21	0.022	11
1200129	0.7	25.8	10.6	55	0.2	21.2	7.5	600	2.36	6.4	2.7	4.2	22	<0.1	0.4	<0.1	45	0.25	0.023	14
1200136	0.4	18.7	36.2	54	0.1	14.0	6.6	388	1.96	2.9	1.1	3.2	28	<0.1	0.3	<0.1	40	0.22	0.022	11
1200134	0.6	16.8	9.0	57	0.2	17.9	8.6	498	2.37	4.7	1.1	3.3	21	0.1	0.3	<0.1	51	0.21	0.023	9
1200137	0.6	28.7	30.9	58	0.1	20.2	9.2	628	2.46	3.5	3.3	3.5	24	<0.1	0.2	<0.1	49	0.24	0.027	12
1200135	0.5	16.5	9.2	58	0.1	17.2	8.9	544	2.41	4.8	11.8	3.1	21	<0.1	0.3	0.1	51	0.20	0.023	9
1200138	0.7	31.4	9.9	62	0.2	23.2	9.3	649	2.57	4.6	2.3	3.8	26	0.1	0.3	<0.1	54	0.27	0.023	14
1200140	0.6	26.8	8.3	53	0.1	18.1	8.0	484	2.31	4.7	1.8	3.5	21	<0.1	0.3	<0.1	50	0.22	0.018	12
1201606	1.1	22.9	6.7	41	0.3	16.2	7.1	430	2.15	4.8	0.8	4.0	27	<0.1	0.3	0.1	39	0.32	0.022	12
1201605	0.4	21.1	7.5	52	0.2	12.8	5.6	363	2.09	3.0	<0.5	3.0	22	<0.1	0.2	<0.1	38	0.19	0.021	10
1201607	0.7	27.2	6.2	38	0.2	16.9	5.6	337	1.73	5.3	1.3	3.5	19	<0.1	0.4	0.1	37	0.21	0.033	12
1201617	0.1	9.0	5.1	27	0.1	6.7	5.3	338	1.29	0.9	0.8	1.8	30	<0.1	<0.1	<0.1	27	0.19	0.038	3
1201612	0.3	42.2	6.2	58	0.2	16.9	9.7	878	2.53	1.2	1.8	3.0	21	<0.1	<0.1	<0.1	51	0.27	0.037	11
1201611	0.4	48.5	4.4	94	0.3	8.1	8.1	839	3.43	0.8	0.9	4.4	8	<0.1	<0.1	0.1	48	0.10	0.036	16
1201613	0.2	24.4	7.9	120	0.1	10.3	5.4	538	1.72	1.4	<0.5	3.0	32	<0.1	<0.1	<0.1	31	0.17	0.023	10
1201608	1.6	77.8	7.1	100	0.1	19.4	8.9	582	3.47	2.7	1.2	4.0	19	<0.1	0.1	0.3	57	0.10	0.031	13
1201609	4.6	97.6	8.5	100	0.2	10.6	7.0	549	3.28	2.9	0.7	3.3	14	<0.1	0.1	0.6	35	0.10	0.028	11
1201615	0.2	14.0	6.7	43	0.2	8.1	6.2	297	2.21	1.3	<0.5	3.0	18	<0.1	<0.1	0.5	30	0.14	0.020	6
1201622	0.6	265.5	10.7	283	0.2	14.2	6.7	308	1.70	4.7	1.6	4.2	23	0.2	0.2	<0.1	35	0.15	0.015	10
1201616	0.3	9.3	3.7	61	0.1	16.7	13.6	722	4.43	0.5	0.5	1.4	18	<0.1	<0.1	<0.1	99	0.26	0.045	5
1201619	0.7	28.1	4.3	280	0.2	5.0	3.3	545	2.98	1.2	0.6	5.0	12	0.5	0.1	<0.1	17	0.11	0.017	21
1201620	0.6	95.9	6.6	129	0.3	16.1	5.9	304	1.85	5.4	1.8	3.5	20	0.4	0.3	<0.1	38	0.21	0.039	13
1201621	0.3	85.6	7.8	224	<0.1	14.7	8.2	439	2.31	1.7	0.6	3.4	25	0.2	0.1	<0.1	43	0.22	0.019	15



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	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
1201618	0.3	17.2	8.0	81	0.2	6.2	6.2	806	2.09	1.3	<0.5	4.6	14	0.3	<0.1	<0.1	25	0.14	0.029	8
1201614	0.3	20.6	4.9	64	0.1	12.2	7.3	417	2.53	1.1	<0.5	3.7	18	<0.1	0.1	<0.1	44	0.14	0.017	9
1175904	0.5	35.0	21.4	83	0.5	22.6	7.6	488	2.47	3.8	3.4	5.1	21	<0.1	0.2	<0.1	47	0.22	0.023	17
1175905	1.1	62.2	8.1	69	0.7	27.8	11.7	429	2.51	2.9	0.8	3.4	29	<0.1	0.2	<0.1	59	0.28	0.022	9
1175906	1.6	40.0	10.8	56	1.0	37.8	10.8	656	2.31	5.0	2.1	3.8	25	0.1	0.3	0.1	46	0.24	0.028	12
1175907	1.5	28.6	14.3	38	0.4	20.3	6.5	406	1.63	4.3	0.5	1.8	15	<0.1	0.2	<0.1	19	0.10	0.022	3
1175942	7.4	86.7	15.7	197	0.4	413.0	39.7	1677	5.15	0.6	<0.5	4.0	48	0.6	0.2	0.2	87	0.32	0.046	15
1201601	1.5	42.5	14.8	71	0.4	65.3	10.9	802	2.48	2.5	1.2	3.4	23	0.1	0.2	0.1	38	0.19	0.022	11
1175941	2.2	40.6	9.8	59	0.4	82.5	10.6	422	2.57	6.2	1.7	4.0	27	<0.1	0.5	0.1	50	0.24	0.028	13
1201602	0.7	34.1	9.1	51	0.3	17.6	7.4	465	2.17	4.6	1.1	3.0	20	<0.1	0.4	0.1	42	0.19	0.027	12
1175909	3.3	49.7	12.8	76	0.4	90.1	14.5	593	2.71	4.4	0.7	3.0	28	0.2	0.3	0.1	48	0.15	0.019	8
1175903	0.5	29.1	13.5	64	0.7	18.3	8.5	605	2.27	3.0	0.8	4.3	22	<0.1	0.3	<0.1	44	0.22	0.028	16
1175943	7.4	58.4	11.8	118	0.5	157.8	20.7	1037	2.95	2.1	8.3	5.7	28	0.5	0.2	0.2	35	0.17	0.035	13
1201603	0.4	24.8	10.0	50	0.3	13.2	6.0	385	1.87	3.3	0.8	4.5	23	<0.1	0.2	<0.1	33	0.24	0.030	14
1175908	1.2	34.3	9.1	51	0.4	36.2	8.7	384	2.14	5.9	1.8	3.7	22	<0.1	0.4	0.1	44	0.26	0.042	16
1175946	1.0	35.3	12.2	53	0.2	24.2	7.4	482	2.21	4.8	1.2	4.0	22	<0.1	0.4	0.1	41	0.21	0.030	15
1201604	0.4	20.3	7.7	51	0.2	11.3	5.2	342	1.93	2.5	1.3	2.9	20	<0.1	0.2	<0.1	34	0.17	0.019	10
1175944	6.6	52.8	29.0	84	0.2	78.8	14.8	526	2.45	2.4	<0.5	5.0	33	0.4	0.2	0.3	29	0.12	0.031	10
1175945	1.6	37.6	16.4	53	0.3	31.7	8.5	393	2.30	4.4	1.3	3.9	24	<0.1	0.4	0.1	43	0.18	0.018	10
1200327	1.9	32.4	7.1	54	0.3	48.7	9.5	489	2.60	4.7	1.4	3.1	29	0.2	0.4	0.1	35	0.25	0.059	10

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			Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.1	0.1	0.05	0.1	0.5
1201618	Soil		12	0.54	218	0.049	<1	0.99	0.015	0.27	2.1	<0.01	3.3	0.2	<0.05	5	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1201614	Soil		24	0.92	200	0.072	<1	1.44	0.014	0.27	0.9	<0.01	6.6	0.3	<0.05	7	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175904	Soil		30	0.63	196	0.083	1	1.18	0.012	0.31	1.1	0.02	5.9	0.2	<0.05	5	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175905	Soil		43	0.95	221	0.102	<1	1.45	0.013	0.35	1.0	<0.01	4.6	0.3	<0.05	5	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175906	Soil		40	0.34	264	0.045	1	1.00	0.014	0.08	2.1	0.03	5.0	<0.1	<0.05	3	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175907	Soil		17	0.09	128	0.006	1	0.45	0.004	0.05	1.4	0.02	3.1	<0.1	<0.05	2	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175942	Soil		125	0.55	326	0.018	1	0.79	0.005	0.06	0.2	0.05	15.3	0.9	<0.05	4	0.6	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1201601	Soil		47	0.32	254	0.013	1	0.77	0.008	0.08	1.9	0.06	6.5	0.2	<0.05	3	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175941	Soil		41	0.35	221	0.038	2	0.93	0.013	0.06	0.8	0.03	6.1	<0.1	<0.05	3	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1201602	Soil		28	0.40	263	0.050	1	1.03	0.016	0.13	1.2	0.04	4.9	<0.1	<0.05	4	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175909	Soil		56	0.19	210	0.016	1	0.73	0.008	0.05	1.2	0.05	6.9	0.2	<0.05	3	0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175903	Soil		28	0.55	233	0.061	2	1.06	0.013	0.29	1.2	0.02	6.0	0.1	<0.05	4	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175943	Soil		53	0.24	203	0.009	<1	0.57	0.004	0.06	1.0	0.01	6.0	0.4	<0.05	2	0.6	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1201603	Soil		21	0.40	249	0.037	1	0.83	0.017	0.15	1.5	0.02	4.6	0.1	<0.05	4	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175908	Soil		37	0.33	246	0.040	1	0.99	0.011	0.05	1.0	0.03	5.8	<0.1	<0.05	3	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175946	Soil		30	0.27	220	0.026	1	0.84	0.009	0.07	1.3	0.03	6.9	<0.1	<0.05	3	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1201604	Soil		20	0.44	239	0.045	1	0.97	0.012	0.21	1.3	0.02	4.9	0.1	<0.05	4	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175944	Soil		37	0.14	205	0.006	<1	0.50	0.004	0.06	1.5	0.02	4.8	0.2	<0.05	2	0.8	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1175945	Soil		33	0.31	241	0.027	1	0.94	0.008	0.06	1.4	0.04	5.9	0.1	<0.05	3	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15
1200327	Soil		38	0.26	219	0.032	1	0.65	0.013	0.08	2.2	0.03	4.7	0.1	<0.05	2	<0.5	<0.2	<0.15	1DX15	1DX15	1DX15	1DX15	1DX15



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Project:

Report Date: April 16, 2012

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WHI12000020.

Method Analyte Unit	1DX15																					
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm		
	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1		
Pulp Duplicates	1200233	Soil	0.6	21.5	7.2	58	0.1	11.5	6.2	263	1.75	4.5	3.7	2.9	20	0.1	0.2	<0.1	38	0.22	0.035	12
	REP 1200233	QC	0.7	21.6	7.3	61	0.1	12.6	6.4	273	1.86	5.2	4.0	3.2	22	0.1	0.3	<0.1	40	0.23	0.037	12
	1200244	Soil	10.9	49.9	13.6	77	0.2	132.5	13.1	788	2.63	4.3	1.5	7.5	37	0.5	0.3	0.2	19	0.10	0.048	14
	REP 1200244	QC	10.8	47.3	13.1	72	0.2	122.8	13.0	757	2.54	3.9	<0.5	7.5	37	0.2	0.3	0.3	20	0.10	0.049	14
	1175730	Soil	0.3	49.9	5.5	72	0.2	6.7	3.5	311	0.88	1.8	0.6	1.9	38	0.2	0.1	<0.1	19	0.12	0.012	6
	REP 1175730	QC	0.2	50.8	5.5	74	0.2	6.6	3.5	309	0.87	1.6	<0.5	2.0	35	0.2	<0.1	<0.1	19	0.13	0.014	6
	1175731	Soil	0.4	76.7	9.3	147	1.0	13.9	6.1	426	1.59	3.3	1.8	2.7	16	0.5	0.2	<0.1	33	0.13	0.013	11
	REP 1175731	QC	0.5	76.0	8.8	147	1.4	13.5	6.0	404	1.53	3.4	1.7	2.6	15	0.3	0.2	<0.1	30	0.12	0.014	11
	1175914	Soil	0.3	12.4	5.4	42	1.9	14.3	6.9	516	1.91	1.2	<0.5	2.5	30	<0.1	0.1	<0.1	39	0.25	0.022	9
	REP 1175914	QC	0.3	12.3	5.6	42	1.8	15.4	6.7	503	1.90	1.0	<0.5	2.4	33	<0.1	<0.1	<0.1	40	0.24	0.021	9
	1175918	Soil	0.4	243.8	7.4	552	1.1	13.8	8.4	806	2.84	<0.5	4.1	3.8	21	0.3	<0.1	<0.1	43	0.17	0.013	23
	REP 1175918	QC	0.3	233.4	7.7	527	1.0	14.1	7.8	771	2.69	0.5	1.4	3.7	21	0.4	0.1	<0.1	42	0.17	0.012	22
	1175794	Soil	0.8	31.4	9.8	55	0.2	20.1	9.2	600	2.41	6.7	4.2	3.3	30	0.2	0.5	0.1	48	0.34	0.043	12
	REP 1175794	QC	0.8	30.7	10.3	52	0.2	20.2	9.3	649	2.31	6.5	11.9	3.1	31	0.3	0.5	0.1	46	0.37	0.047	12
	1175783	Soil	0.9	38.3	10.0	82	0.2	18.8	6.7	352	2.12	7.0	3.1	3.9	19	<0.1	0.4	0.1	41	0.22	0.020	11
	REP 1175783	QC	0.8	38.8	10.2	84	0.2	19.4	6.9	359	2.19	7.4	3.9	4.1	20	0.1	0.4	0.1	43	0.22	0.021	11
	1200208	Soil	0.4	24.0	5.3	77	<0.1	8.8	7.8	704	2.59	1.2	1.0	3.0	11	<0.1	<0.1	<0.1	42	0.16	0.041	11
	REP 1200208	QC	0.5	23.6	5.0	79	<0.1	8.2	7.5	689	2.56	1.2	<0.5	3.0	11	<0.1	0.1	<0.1	41	0.16	0.042	11
	1200213	Soil	1.7	36.5	6.8	101	0.2	9.5	9.1	743	3.99	1.4	1.9	2.6	12	<0.1	<0.1	0.2	52	0.10	0.035	9
	REP 1200213	QC	1.9	38.0	7.1	106	0.2	10.1	9.4	740	4.15	1.2	<0.5	2.7	13	<0.1	<0.1	0.2	53	0.10	0.038	10
1175762	Soil	0.6	26.0	13.9	77	0.9	58.3	9.6	782	3.02	3.1	1.1	3.1	12	0.1	0.2	<0.1	53	0.24	0.023	13	
REP 1175762	QC	0.6	25.5	14.0	74	0.8	58.6	10.0	794	3.11	3.2	0.8	3.2	13	<0.1	0.3	<0.1	54	0.24	0.024	13	
1175766	Soil	1.0	28.0	9.7	66	0.9	39.2	9.1	635	3.38	3.8	2.7	3.9	20	<0.1	0.3	<0.1	51	0.33	0.031	16	
REP 1175766	QC	0.9	27.1	9.6	66	0.8	38.7	9.0	627	3.30	3.7	2.0	3.7	18	<0.1	0.3	<0.1	51	0.32	0.031	15	
1200125	Soil	0.6	19.0	5.9	44	0.1	20.1	8.0	495	1.82	5.9	3.6	2.8	26	0.2	0.4	<0.1	43	0.31	0.066	12	
REP 1200125	QC	0.6	18.0	5.9	43	0.2	18.8	7.5	479	1.75	5.8	1.3	2.7	25	0.2	0.4	<0.1	41	0.30	0.064	11	
1200031	Soil	0.5	35.6	10.5	60	0.1	52.4	13.5	518	2.49	3.4	0.5	3.1	15	<0.1	0.4	0.1	47	0.19	0.027	8	
REP 1200031	QC	0.6	34.9	10.5	59	0.1	50.1	13.3	491	2.41	3.3	<0.5	3.2	14	<0.1	0.4	0.1	45	0.17	0.025	8	

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: VOL
Report Date: April 16, 2012

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QUALITY CONTROL REPORT

WHI12000020.1

Method Analyte Unit	MDL	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15																1DX15 1DX15 1DX15 1DX15			
		Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm				
Pulp Duplicates		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				
1200233	Soil	23	0.39	206	0.048	1	1.01	0.014	0.04	1.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2				
REP 1200233	QC	23	0.40	214	0.055	1	1.09	0.020	0.05	1.1	<0.01	3.4	<0.1	<0.05	3	<0.5	<0.2				
1200244	Soil	15	0.07	230	0.002	<1	0.32	0.003	0.07	0.7	0.05	3.0	0.2	<0.05	1	1.0	<0.2				
REP 1200244	QC	15	0.07	229	0.003	1	0.32	0.003	0.07	0.8	0.05	2.9	0.2	<0.05	2	1.5	<0.2				
1175730	Soil	13	0.19	134	0.031	<1	0.50	0.026	0.07	1.8	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2				
REP 1175730	QC	13	0.19	130	0.031	<1	0.50	0.026	0.07	1.7	0.01	2.1	<0.1	<0.05	2	<0.5	<0.2				
1175731	Soil	20	0.36	248	0.035	<1	0.98	0.010	0.04	1.2	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2				
REP 1175731	QC	20	0.35	242	0.033	<1	0.93	0.010	0.04	1.3	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2				
1175914	Soil	25	0.66	324	0.047	1	1.00	0.017	0.27	1.1	0.01	4.9	0.2	<0.05	4	<0.5	<0.2				
REP 1175914	QC	26	0.68	318	0.052	<1	1.03	0.020	0.25	0.9	0.02	5.3	0.2	<0.05	5	<0.5	<0.2				
1175918	Soil	24	1.49	401	0.089	<1	1.98	0.015	0.49	0.9	0.02	8.3	0.4	<0.05	8	<0.5	<0.2				
REP 1175918	QC	22	1.41	387	0.085	<1	1.89	0.014	0.49	0.9	0.02	7.9	0.4	<0.05	8	<0.5	<0.2				
1175794	Soil	29	0.35	374	0.046	1	1.18	0.012	0.07	1.1	0.03	5.1	<0.1	<0.05	4	<0.5	<0.2				
REP 1175794	QC	29	0.34	400	0.044	2	1.18	0.013	0.07	1.1	0.03	5.0	<0.1	<0.05	4	<0.5	<0.2				
1175783	Soil	27	0.41	293	0.050	1	1.16	0.011	0.07	0.8	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2				
REP 1175783	QC	28	0.43	305	0.052	<1	1.26	0.012	0.08	0.9	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2				
1200208	Soil	16	0.76	468	0.081	<1	1.15	0.014	0.54	1.7	<0.01	6.1	0.2	<0.05	5	<0.5	<0.2				
REP 1200208	QC	15	0.74	450	0.080	<1	1.11	0.014	0.52	1.9	<0.01	6.1	0.2	<0.05	4	<0.5	<0.2				
1200213	Soil	18	0.80	310	0.076	<1	1.26	0.016	0.48	1.5	0.02	7.1	0.2	0.09	6	0.8	<0.2				
REP 1200213	QC	19	0.81	324	0.080	<1	1.28	0.017	0.49	1.4	0.04	7.6	0.2	0.11	6	1.2	<0.2				
1175762	Soil	29	0.25	206	0.022	<1	0.79	0.005	0.06	0.8	0.12	9.2	0.1	<0.05	4	<0.5	<0.2				
REP 1175762	QC	29	0.25	205	0.023	<1	0.81	0.005	0.06	0.8	0.12	9.0	0.1	<0.05	4	<0.5	<0.2				
1175766	Soil	23	0.50	334	0.040	<1	1.12	0.009	0.13	0.6	0.04	7.3	0.1	<0.05	5	<0.5	<0.2				
REP 1175766	QC	23	0.50	330	0.040	1	1.07	0.009	0.13	0.7	0.05	7.4	0.1	<0.05	5	<0.5	<0.2				
1200125	Soil	28	0.36	314	0.045	1	1.01	0.013	0.04	0.6	0.04	3.6	<0.1	<0.05	3	<0.5	<0.2				
REP 1200125	QC	28	0.35	300	0.042	1	0.97	0.014	0.04	0.7	0.04	3.4	<0.1	<0.05	3	<0.5	<0.2				
1200031	Soil	53	0.50	175	0.037	<1	1.11	0.009	0.07	0.8	0.06	5.8	0.2	<0.05	4	<0.5	<0.2				
REP 1200031	QC	50	0.48	168	0.033	<1	1.08	0.010	0.07	0.8	0.06	5.6	0.2	<0.05	4	<0.5	<0.2				



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Project: VOL
Report Date: April 16, 2012

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WHI12000020.

	1DX15																											
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	1DX15	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	1DX15	Au ppb	Th ppm	Sr ppm	1DX15	Cd ppm	Sb ppm	1DX15	Bi ppm	V ppm	Ca %	P %	La ppm	1DX15			
	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	2	0.01	0.001	1	1DX15			
1200019	0.7	80.7	2.7	35	<0.1	33.0	12.1	393	2.61	2.2	1.1	0.8	29	0.1	0.2	<0.1	55	0.62	0.030	4								
REP 1200019	0.8	79.5	2.8	35	<0.1	31.7	11.7	379	2.55	1.7	0.6	0.8	26	0.1	0.2	<0.1	53	0.59	0.030	3								
1200139	0.8	27.0	9.1	56	0.1	19.3	8.0	524	2.37	5.0	0.6	3.5	21	<0.1	0.4	0.1	49	0.21	0.019	12								
REP 1200139	0.8	27.0	9.0	54	0.1	18.5	8.0	518	2.36	5.0	<0.5	3.5	22	<0.1	0.3	<0.1	50	0.21	0.020	12								
1201619	0.7	28.1	4.3	280	0.2	5.0	3.3	545	2.98	1.2	0.6	5.0	12	0.5	0.1	<0.1	17	0.11	0.017	21								
REP 1201619	0.6	28.4	4.3	284	0.3	5.1	3.4	539	3.03	1.3	1.2	5.1	12	0.6	<0.1	<0.1	19	0.11	0.017	21								
1175946	1.0	35.3	12.2	53	0.2	24.2	7.4	482	2.21	4.8	1.2	4.0	22	<0.1	0.4	0.1	41	0.21	0.030	15								
REP 1175946	1.0	34.9	11.7	52	0.3	23.7	7.1	463	2.16	4.6	0.9	3.9	23	0.1	0.4	<0.1	39	0.20	0.029	15								
Reference Materials																												
STD DS8	13.1	106.5	117.0	301	1.7	37.9	7.5	617	2.44	23.7	101.2	6.5	63	2.2	4.8	6.2	40	0.67	0.077	15								
STD DS8	13.1	110.6	123.4	312	1.8	37.7	7.5	609	2.37	25.2	115.6	6.3	61	2.3	5.0	6.3	42	0.67	0.078	15								
STD DS8	11.9	97.2	109.1	281	1.6	34.4	6.8	540	2.21	23.3	94.0	6.1	61	2.0	5.1	6.1	39	0.63	0.076	14								
STD DS8	12.5	104.9	122.8	303	1.7	36.8	7.3	593	2.35	24.4	117.6	6.4	63	2.3	5.2	6.3	40	0.66	0.079	14								
STD DS8	12.7	105.2	117.9	303	1.7	36.4	7.2	588	2.35	24.1	105.5	6.5	60	2.2	5.4	6.0	41	0.66	0.076	14								
STD DS8	11.8	96.4	116.7	282	1.7	33.0	6.6	542	2.18	22.6	97.4	6.3	61	2.0	5.2	6.4	38	0.61	0.076	13								
STD DS8	13.0	102.3	117.5	294	1.8	36.1	7.0	583	2.29	23.9	114.1	6.5	65	2.2	5.2	6.1	41	0.66	0.077	16								
STD DS8	12.8	100.2	114.7	294	1.8	36.1	7.0	570	2.26	22.5	115.5	6.5	61	2.1	4.8	4.3	40	0.66	0.072	16								
STD DS8	12.3	102.4	120.9	299	1.7	36.4	7.3	590	2.34	23.8	113.3	6.6	63	1.9	5.1	5.5	40	0.67	0.074	16								
STD DS8	12.7	104.5	122.3	313	1.8	37.3	7.3	609	2.40	24.8	131.6	6.5	66	2.4	5.4	5.5	41	0.66	0.082	16								
STD DS8 Expected	13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6								
BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1								
BLK	<0.1	<0.1	0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1								
BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1								
BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1								
BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1								
BLK	<0.1	0.2	0.3	2	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1								
BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1								
BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1								
BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1								

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Acme Analytical Laboratories (Vancouver) Ltd.

Project: VOL
Report Date: April 16, 2012

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WHI12000020.1

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Volcanic Metals Corp.**
Suite 700 - 510 West Hastings Street
Vancouver BC V6B1L8 Canada

Project: VOL

Report Date: April 16, 2012

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI12000020.1

	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15																			
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
BLK	Blank	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Project:

Report Date: April 16, 2012

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QUALITY CONTROL REPORT

WHI12000020.1

	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se					
	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm					
	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					
BLK	<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					



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Comstock Metals Ltd.
701 - 675 West Hastings St.
Vancouver BC V6B 1N2 Canada

Submitted By: Rasool Mohammad
Receiving Lab: Canada-Dawson City
Received: June 22, 2012
Report Date: July 24, 2012
Page: 1 of 5

CERTIFICATE OF ANALYSIS

DAW120000049.1

CLIENT JOB INFORMATION

Project: WAL
Shipment ID:
P.O. Number
Number of Samples: 100

SAMPLE DISPOSAL

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

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

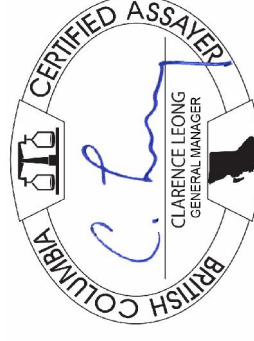
SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	100	Dry at 60C			DAW
SS80	100	Dry at 60C sieve 100g to -80 mesh			DAW
1DX2	100	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Comstock Metals Ltd.
701 - 675 West Hastings St.
Vancouver BC V6B 1N2
Canada

CC: Larry Johnson



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Acme Analytical Laboratories (Vancouver) Ltd.

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Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

Client: Comstock Metals Ltd.
701 - 675 West Hastings St.
Vancouver BC V6B 1N2 Canada

Project: WAL
Report Date: July 24, 2012

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Page: 2 of 5 **Part:** 2 of 2

CERTIFICATE OF ANALYSIS

DAW12000049.1

Method Analyte Unit	MDL	1DX15																
		La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm
1290058	Soil	11	33	0.27	193	0.033	<1	0.67	0.007	0.04	0.1	0.02	3.7	<0.1	<0.05	2	<0.5	<0.2
1290060	Soil	21	128	0.67	266	0.040	<1	1.25	0.005	0.07	<0.1	0.04	9.6	0.3	<0.05	5	0.6	<0.2
1290049	Soil	17	42	0.62	292	0.062	<1	1.22	0.007	0.13	0.1	0.05	8.4	0.2	<0.05	5	<0.5	<0.2
1290059	Soil	15	66	0.55	223	0.061	<1	1.20	0.007	0.05	<0.1	0.04	6.9	0.1	<0.05	4	<0.5	<0.2
1290048	Soil	9	36	0.57	179	0.064	1	0.95	0.007	0.25	0.1	0.01	4.2	0.2	<0.05	4	<0.5	<0.2
1290061	Soil	17	113	0.63	289	0.044	<1	1.20	0.006	0.06	<0.1	0.07	9.1	0.2	<0.05	5	<0.5	<0.2
1290062	Soil	16	30	0.26	235	0.018	<1	0.73	0.004	0.06	<0.1	0.05	6.2	0.2	<0.05	3	<0.5	<0.2
1290064	Soil	13	31	0.58	243	0.045	<1	1.08	0.011	0.08	<0.1	0.06	6.6	0.1	<0.05	5	<0.5	<0.2
1290063	Soil	15	30	0.35	215	0.036	<1	0.80	0.007	0.06	0.2	0.05	6.5	0.1	<0.05	3	<0.5	<0.2
1290065	Soil	14	36	0.54	246	0.061	<1	1.12	0.008	0.08	0.1	0.04	6.5	0.1	<0.05	5	<0.5	<0.2
1290066	Soil	7	28	0.42	244	0.054	<1	1.00	0.006	0.12	0.2	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
1290050	Soil	12	24	0.30	285	0.023	1	0.85	0.006	0.08	<0.1	0.06	7.9	<0.1	<0.05	4	<0.5	<0.2
1290052	Soil	14	21	0.40	298	0.024	1	0.92	0.006	0.10	<0.1	0.05	8.3	0.2	<0.05	5	<0.5	<0.2
1290037	Soil	12	26	0.31	211	0.042	<1	0.72	0.009	0.05	0.2	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
1290036	Soil	10	26	0.38	236	0.052	1	0.86	0.013	0.04	0.2	0.04	3.2	<0.1	<0.05	3	<0.5	<0.2
1290067	Soil	15	22	1.62	517	0.151	<1	2.05	0.006	1.07	<0.1	0.01	5.5	0.5	<0.05	9	<0.5	<0.2
1290038	Soil	13	27	0.35	219	0.042	1	0.72	0.009	0.04	0.4	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
1290054	Soil	10	25	0.28	178	0.033	<1	0.80	0.006	0.06	0.1	0.02	4.5	<0.1	<0.05	3	<0.5	<0.2
1290053	Soil	12	23	0.29	306	0.010	1	0.99	0.006	0.07	<0.1	0.07	8.0	<0.1	<0.05	4	<0.5	<0.2
1290042	Soil	9	29	0.36	201	0.042	<1	0.97	0.006	0.06	0.2	0.02	4.2	<0.1	<0.05	3	<0.5	<0.2
1290056	Soil	20	40	0.31	213	0.029	<1	0.77	0.007	0.04	<0.1	0.03	7.6	0.2	<0.05	3	0.7	<0.2
1290057	Soil	13	37	0.42	226	0.048	<1	0.88	0.013	0.05	0.2	0.03	4.1	<0.1	<0.05	3	<0.5	<0.2
1290039	Soil	11	27	0.33	226	0.044	<1	0.82	0.009	0.05	0.2	0.04	4.1	<0.1	<0.05	3	<0.5	<0.2
1290055	Soil	24	94	0.54	277	0.034	<1	1.15	0.007	0.08	<0.1	0.07	11.6	0.3	<0.05	5	0.5	<0.2
1268575	Soil	11	42	0.32	186	0.013	1	0.91	0.006	0.05	<0.1	0.04	9.7	0.1	<0.05	4	<0.5	<0.2
1290051	Soil	4	33	0.78	90	0.104	2	1.47	0.072	0.11	14.1	<0.01	4.1	<0.1	0.12	5	<0.5	<0.2
1290040	Soil	16	40	0.68	379	0.028	<1	1.17	0.007	0.10	<0.1	0.03	8.2	0.3	<0.05	5	<0.5	<0.2
1290041	Soil	11	26	0.45	360	0.031	<1	1.15	0.007	0.12	0.1	0.04	6.5	0.1	<0.05	5	<0.5	<0.2
1268570	Soil	13	27	0.52	279	0.063	<1	1.10	0.007	0.23	0.1	0.01	5.0	0.2	<0.05	5	<0.5	<0.2
1290047	Soil	26	36	1.15	462	0.121	<1	1.59	0.006	0.91	<0.1	0.07	14.1	0.5	<0.05	11	<0.5	<0.2



Acme Analytical Laboratories (Vancouver) Ltd.

Client:

Project: WAL

Part: 1 of 2

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

Client:

Comstock Metals Ltd.
701 - 675 West Hastings St.
Vancouver BC V6B 1N2 Canada

Project:

WAL

Report Date:

July 24, 2012

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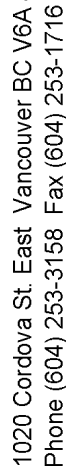
Page: 5 of 5

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CERTIFICATE OF ANALYSIS

DAW12000049.1

Method Analyte Unit	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15																			
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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
1260480	Soil	2.0	40.8	15.7	66	<0.1	39.3	10.3	415	2.84	5.9	4.4	3.8	25	<0.1	0.5	<0.1	62	0.25	0.014
1260484	Soil	6.0	43.9	13.8	77	<0.1	110.0	13.8	628	2.57	2.7	0.8	4.7	42	0.1	0.3	0.1	41	0.17	0.028
1260490	Soil	0.7	57.3	13.6	70	<0.1	28.6	10.6	429	3.29	2.5	2.2	3.5	24	<0.1	0.3	<0.1	79	0.36	0.026
1260481	Soil	6.6	85.8	35.7	111	<0.1	134.6	20.8	995	3.60	3.2	<0.5	4.0	51	0.2	0.4	0.3	67	0.13	0.015
1260487	Soil	2.1	47.5	15.0	65	<0.1	36.4	7.9	561	2.54	4.1	1.0	1.6	19	<0.1	0.4	<0.1	44	0.16	0.019
1260485	Soil	2.7	49.6	12.5	68	<0.1	60.0	11.6	541	2.63	5.4	2.0	3.7	30	<0.1	0.5	0.1	54	0.22	0.020
1260491	Soil	0.6	24.4	6.1	50	<0.1	21.7	6.2	271	2.06	5.2	4.1	3.9	18	<0.1	0.5	<0.1	49	0.21	0.027
1260492	Soil	0.6	20.5	8.3	57	<0.1	21.5	7.7	291	2.40	4.4	<0.5	3.2	18	<0.1	0.3	<0.1	53	0.17	0.017
1260472	Soil	1.4	45.4	12.1	78	<0.1	28.7	11.4	552	3.47	5.1	0.8	4.2	26	<0.1	0.5	<0.1	76	0.28	0.016
1353875	Soil	1.4	33.9	9.7	56	<0.1	24.3	9.1	458	2.45	2.9	1.4	2.8	19	<0.1	0.3	<0.1	51	0.22	0.017



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Client:

Project: WAL

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DAW12000049.1

Method	Analyte	Unit	1DX15																		
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te		
		MDL	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm		
1260480	Soil		13	39	0.51	265	0.065	1	1.28	0.009	0.06	0.1	0.04	6.6	0.1	<0.05	5	<0.5	<0.2		
1260484	Soil		12	41	0.26	216	0.023	<1	0.64	0.006	0.05	<0.1	0.07	5.5	0.3	<0.05	3	<0.5	<0.2		
1260490	Soil		18	42	0.89	242	0.058	<1	1.42	0.007	0.11	<0.1	0.05	10.0	0.2	<0.05	7	<0.5	<0.2		
1260481	Soil		9	72	0.17	312	0.011	<1	0.67	0.003	0.05	<0.1	0.06	10.4	0.3	<0.05	3	0.5	<0.2		
1260487	Soil		14	33	0.33	201	0.032	<1	0.92	0.004	0.09	<0.1	0.03	6.6	0.2	<0.05	4	0.5	<0.2		
1260485	Soil		12	37	0.43	260	0.043	<1	1.00	0.009	0.06	0.1	0.07	6.2	0.2	<0.05	4	<0.5	<0.2		
1260491	Soil		14	28	0.44	207	0.053	<1	1.00	0.007	0.11	0.1	0.02	4.5	0.1	<0.05	4	<0.5	<0.2		
1260492	Soil		7	29	0.69	205	0.067	<1	1.23	0.005	0.28	<0.1	<0.01	4.4	0.2	<0.05	5	<0.5	<0.2		
1260472	Soil		16	39	0.81	364	0.082	<1	1.64	0.009	0.10	<0.1	0.04	9.0	0.2	<0.05	7	<0.5	<0.2		
1353875	Soil		12	29	0.51	236	0.049	<1	1.03	0.005	0.10	<0.1	0.03	5.3	0.2	<0.05	4	<0.5	<0.2		



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Page: 1 of 1

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