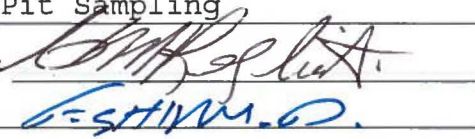


Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Technical Assessment Report On Diamond Drilling and Pit Sampling **TOTAL COST: \$ 120,963.91**

AUTHOR(S): Mark Rebagliati, Farshad Shirmohammad **SIGNATURE(S):** 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-13-282 / September 29, 2016 **YEAR OF WORK:** 2017

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5691495 / March 29, 2018

PROPERTY NAME: Manson Silver

CLAIM NAME(S) (on which the work was done): Wally (532968), Wally1 (532969), Wally (533503), Wally (533509)

COMMODITIES SOUGHT: Silver, Zinc, Lead, Copper, Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: _____

MINING DIVISION: Liard **NTS/BCGS:** 93N10E/93N068

LATITUDE: 55 ° 39 ' 48 " **LONGITUDE:** 124 ° 25 ' 26 " (at centre of work)

OWNER(S):
1) Joe James Hirak 2) _____

MAILING ADDRESS:
#55 - 46484 Chilliwack Lake Road
Chilliwack BC V2R 3R8

OPERATOR(S) [who paid for the work]:
1) Phil McLean 2) _____

MAILING ADDRESS:
14093 - 256th Street
Maple Ridge BC V4R 1C9

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Takla Group, Manson Silver, Silver Vein, Galena, Sphalerite, Chalcopyrite, Sulphide, Argillite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 34,364; 19,501; 18,012; 11,627

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	Core logging-Sampling		24,900
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock	39	533509, 532969	3,113.02
Other			
DRILLING (total metres; number of holes, size)			
Core	674.83m; Nine Diamond Drill Holes, HQ	533509, 532969	90,973.83
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other	Travel, meal, accommodation		1,977.06
		TOTAL COST:	120,963.91

2017 Pit Sampling and Diamond Drilling
Assessment Report
On the
Wally Property
Manson Silver Project

Located in the Manson Creek Area
Liard Mining Division
Latitude 55°39'N
Longitude 124°25'W
NTS 93N/10E

Owner

Joe James Hirak

Operator

Phil McLean

By

C. M. Rebagliati, P.Eng.

F. Shirmohammad, M.Sc., P.Geo.

March 27, 2018

(Amended Jan. 10, 2019)

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1.0 SUMMARY

Placer miners reported finding sulphide-rich veins containing silver, gold, lead, zinc and copper in boulders and in bedrock. Veins exposed by the placer miners were sampled by the author and associates and assays returned high metal concentrations substantiating the range of metal grades reported by the placer miners. To investigate the veins nine diamond core hole were drilled totalling 674.83 metres. The drilling successfully intersected narrow polymetallic quartz-sulphide veins, well mineralized in silver, gold, lead, zinc and copper.

2.0 CLAIM STATUS

The Wally claims are located in the Omineca Mining Division and encompass an area of 2.74 km² (Figure 1). The claims are registered to: Joe James Hirak.

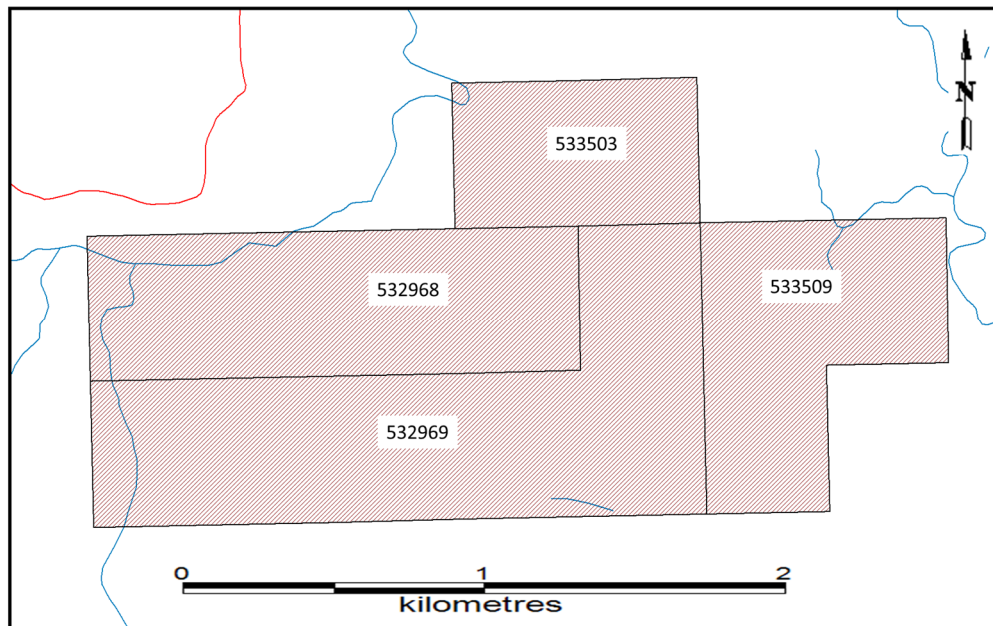


Figure 1. Claim Map. Scale = 1:25,000

The claims are recorded as follows.

Tenure No.	Claim Name	Owner	Good To Date	Area (ha)
532968	Wally	111933	2018/Apr/25	72.99
532969	Wally 1	111933	2018/Apr/25	109.49
533503	Wally	111933	2018/Apr/25	36.49
533509	Wally	111933	2018/Apr/25	<u>54.74</u>
			Total	273.71

3.0 PROPERTY DESCRIPTION, LOCATION AND ACCESS

The property is located approximately 146 km northwest of Fort St. James, BC, 27 km southwest of Germansen Landing and immediately south of the hamlet of Manson Creek at Latitude 55⁰39' N and Longitude 124⁰25' W 2 km east of the town of Manson Creek in the Intermountain Belt of central British Columbia (Figure 2).

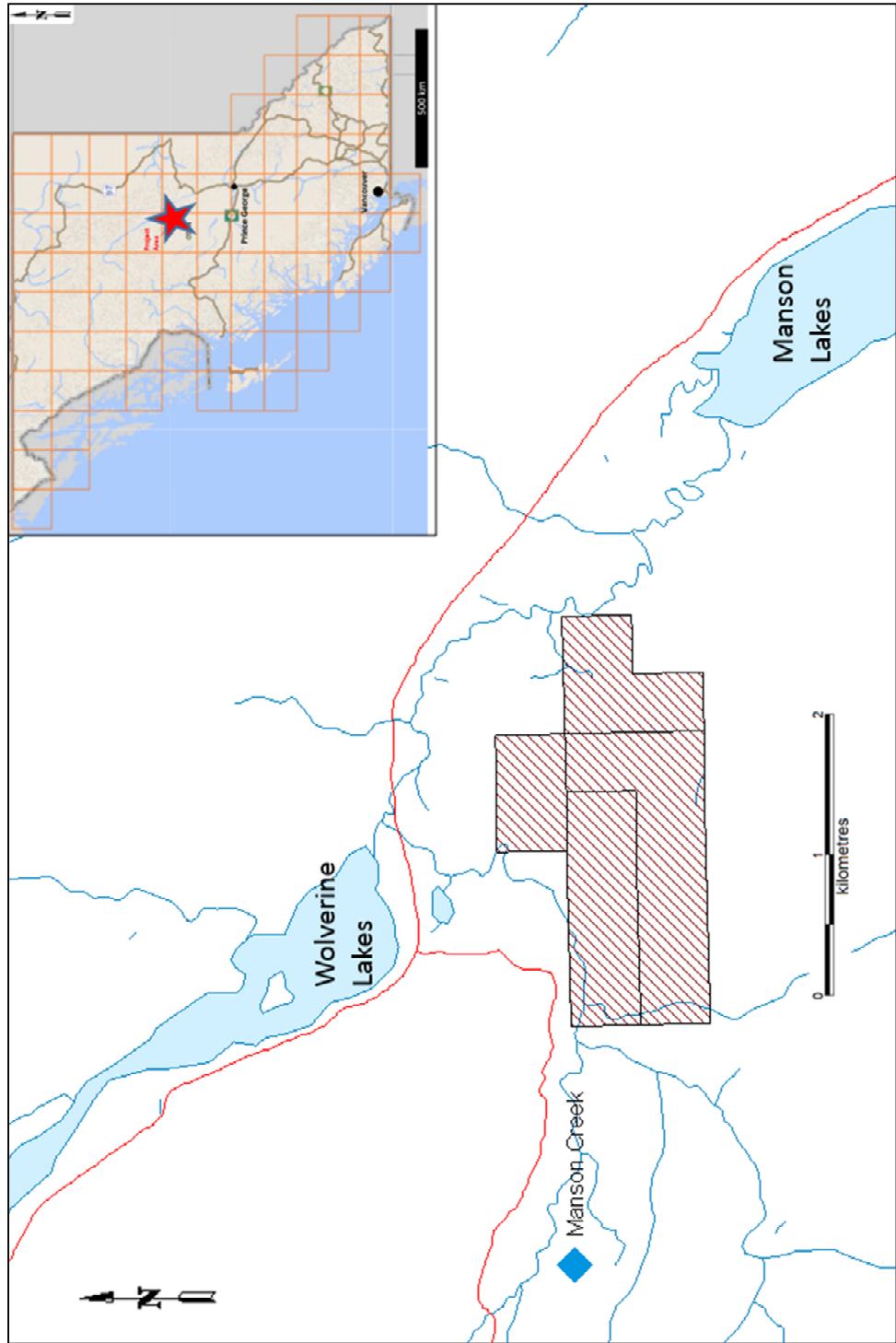


Figure 2. Location Map. Scale = 1:50,000

The claims are accessible year-round by gravel road originating from Fort St. James, BC a distance of approximately 225 km. Alternative access is by a series of logging roads accessed from Mackenzie, BC. The small community of Manson Creek cannot supply much more than limited accommodations, food and fuel for vehicles.

The property is characterized by broad creek valleys and rolling to moderate hills. Local relief is moderate and elevations range from approximately 700 m to 1200 m (Figure 3). The lower and dryer areas are forested with mainly pine, and spruce, balsam and alder in wetter areas.

Both winter and summer temperatures are generally moderate; winter averages are -15°C but can drop to -30°s and summer averages in July are 15°C with highs in the 20°s . Average rainfall is approximately 300 mm and average snowfall is 250 cm.

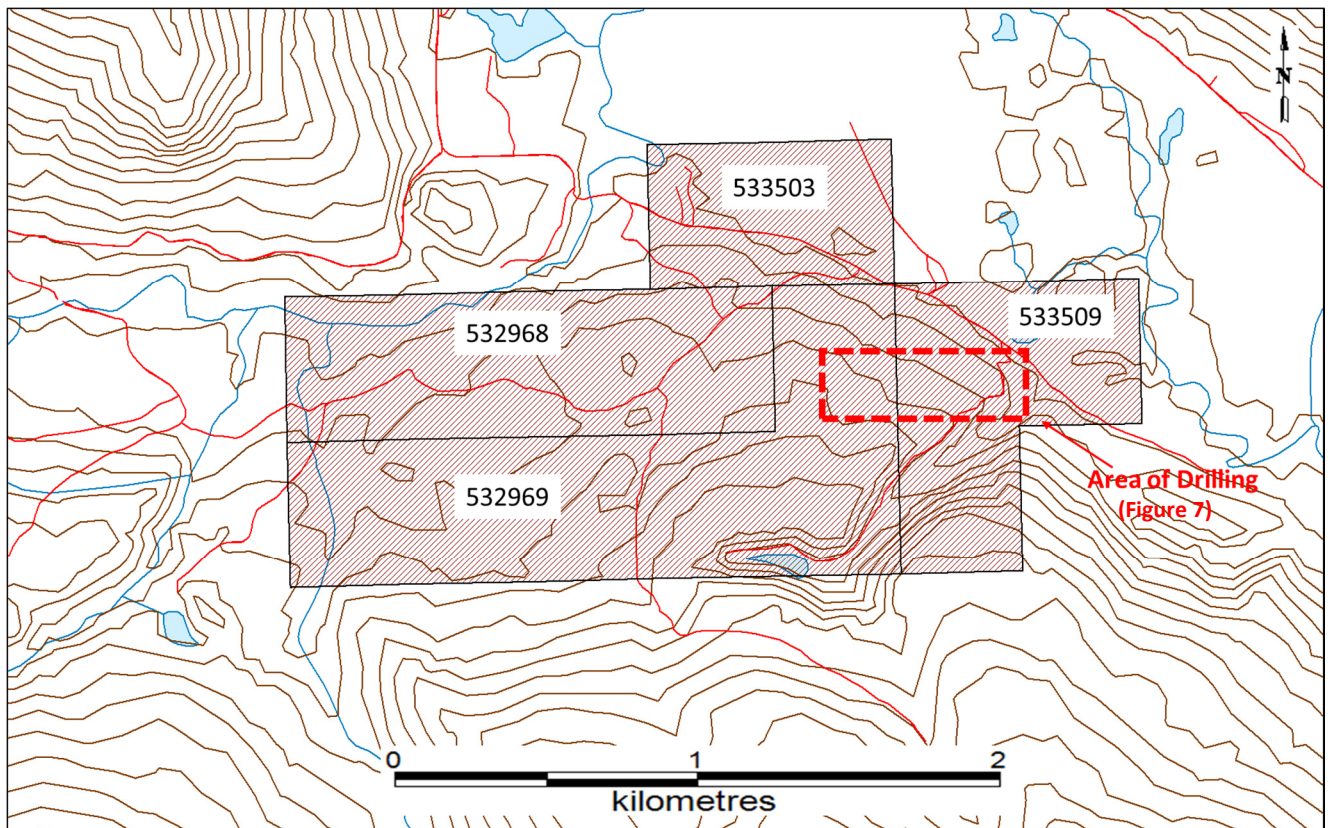


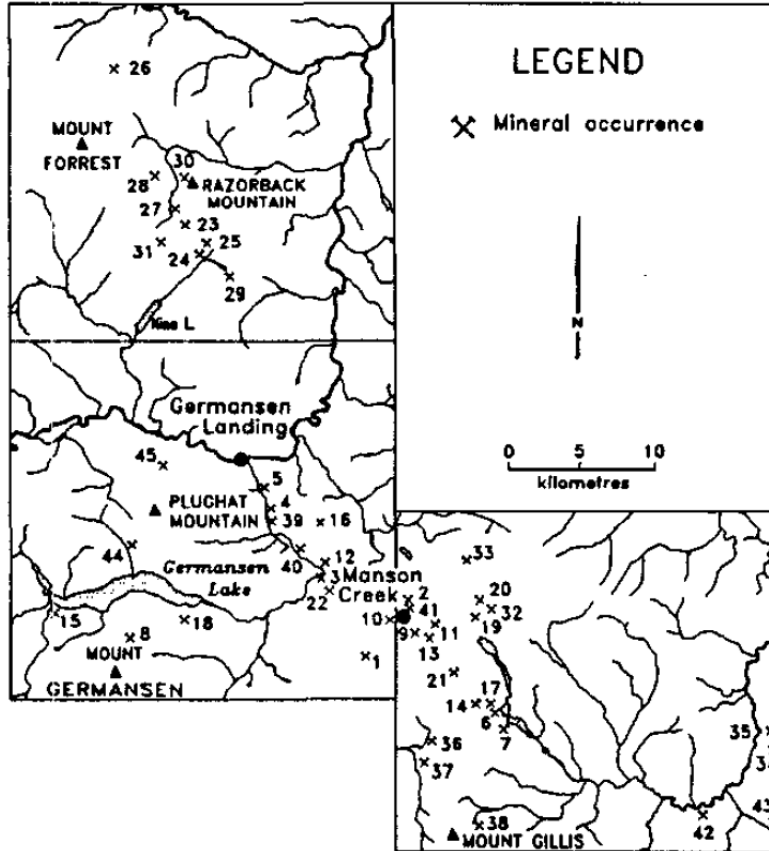
Figure 3. Topographic Map and Area of Drilling-Trenching. Scale = 1:25,000

4.0 HISTORY

The Manson Creek area has received considerable exploration, most has been directed to placer gold mining, which began in the late 1870s and continues to today. Prospecting for the source of the Germansen River and Manson Creek placer gold has led to the discovery of numerous lode silver-gold-lead-zinc-copper occurrences. Most of these vein occurrences are spatially related to the Manson Creek Fault, an anastomosing fault/shear zone extending over of width of 1 km to 5 km (Figure 4).

Some of the more significant and relevant mineral occurrences in the vicinity of the Wally property are:

QCM no. 22 (figure 4) Minfile no. 093N 200; Soil geochemistry outlined two gold-silver-lead-zinc anomalies, reported trench and drill results include 4.25 g/t gold over 0.79 m, 0.59 g/t over 137.2 m.



Deposit Type	Map No.	MINFILE Number	UTM Easting	UTM Northing	Property Name(s)	Metals or Commodity	Dominant Sulphides/Commodity Form	Character	Hostrocks	Country Rock Alteration	Last Year of Work Reported and Type
POLYMETALLIC VEINS	Type I	093N 022	402930	6167090	Blackhawk	Ag, Pb, Zn, Au	sphalerite, galena, pyrite, chalcopyrite, pyrrhotite	quartz veins	Horsetail Tada Group siltstone, calcareous shale, argillite and minor argillaceous limestone	silica	1989 - drilling, soil geochemistry
	IIb	093N 023	405870	6170631	Fairview	Au, Ag, Cu, (Sb)	Native gold, tetrahedrite, chalcopyrite, malachite	quartz veins	Nine Creek group argillite, sphenite, and mafic volcanics in the Manson fault zone	silica, carbonate	1988 - trenching, rock geochemistry
	IIb	093N 024	395510	6173910	Motherkade, Flagstaff, Vof	Au, Ag, Cu, Pb	native gold, tetrahedrite,	quartz veins	Tada Group phyllite	silica, carbonate	1982 - mapping, rock geochemistry
	IIb	093N 025	395470	6179040	Farrell, P.E.M.	Au, Ag, Cu	native gold, tetrahedrite, chalcopyrite, pyrite	quartz veins	Nine Creek group phyllite	silica, carbonate	1994 - drilled 304.8 m
	IIc	093N 026	394830	6181060	Sunset	Cu, (Ag)	chalcopyrite, pyrite, malachite	quartz veins	Big Creek group phyllite within the Manson fault zone	silica	showing reported in 1938
	IIe	093N 027	413850	6162150	ASP, A.G., Boulder Creek	Pb, Ag (Mo, Au, Zn, Cu)	galena, pyrite	quartz veins	Boulder Creek group chlorite schist within the Manson fault zone	silica, carbonate	1982 - geological mapping, sampling
	IIe	093N 028	414230	6181575	Berthold, Elsie	Pb, Ag	galena, pyrite	quartz veins	Boulder Creek group chlorite schist within the Manson fault zone	silica, carbonate	1970 - percussion drilling
	IIc	093N 029	385250	6169300	Erickson	Cu, (Au, Ag)	chalcopyrite, pyrite	quartz veins	Sheared Tada Group argillite in close proximity of the Germansen batholith	silica	showing reported in 1949
	IIe	093N 030	407210	6168750	Kathy, Glo, Troy, Joy	Pb, W, Cu, Zn, Ag	galena, pyrite, sphalerite, chalcopyrite	carbonate/ quartz veins	Nine Creek group phyllite, arenaceous limestone and ultramafite	carbonate, slight silica	1981 - soil, rock geochem, geophysics
	IIc	093N 083	404850	6169805	Discovery Bar	Ag, Pb, Zn	galena, sphalerite, pyrite	quartz veins	Tada Group argillites within the Manson fault zone	silica	showing reported in 1949
	IIc	093N 117	406330	6169450	Lost Creek	Pb, Ag	galena, pyrite	quartz veins	Tada Group black argillite and limestone within the Manson fault zone	silica	pre 1940 - drill
	IIc	093N 130	399650	6174520	JEA	Cu, Au, Ag	tetrahedrite	quartz veins	Big Creek group argillite and altered ultramafite near the Manson fault zone	silica, carbonate	showing reported in 1941
	IIc	093N 136	407725	6168800	AJM	Pb (Ag, Au)	galena, pyrite	quartz veins	Tada Group argillite (?) within the Manson fault zone	silica	showing reported in 1941
	IIe	093N 137	412850	6162950	Bold 1, Stroh, Spaner	Pb, Zn, Ag, Ba, Au, Cu, Mo	galena, pyrite, sphalerite, chalcopyrite, molybdenite	carbonate/ quartz veins	Boulder Creek group limestone and schist	carbonate, silica	1982 - soil geochem, geological mapping
	I(?)	093N 145	377545	6171439	Dog Creek	Cu, Ag, Zn, (Sb)	chalcopyrite, sphalerite, argentiferous tetrahedrite	oxidized shear zone, quartz veins	Tada Group sediments and volcanics	silica	reported 1988
	IIb(?)	093N 144	399408	6178021	Dave	Cu, Ag, (Sb)	freibergite, argentiferous tetrahedrite, pyrite	quartz veins	Nine Creek group sediments and gabbro	silica, late stage carbonate	reported 1989
	IIe	093N 197	413250	6162820	Bold 2, Boulder Creek	Pb, Zn, Mo, Ag, Au	galena, sphalerite, molybdenite, pyrite	carbonate/ quartz veins	Boulder Creek group arenite and carbonate near the Manson fault zone	carbonate, silica	1982 - geological mapping, trenching
	I	093N 202	388075	6170450	Cat	Zn, Pb, Cu	sphalerite, galena, chalcopyrite, pyrite	quartz veins	Tada Group shale, siltstone and sandstone near the Germansen batholith	silica	1984 - geological mapping, geochemistry
PRECIOUS METAL QUARTZ VEINS	19	093N 134	411945	6178890	GAM	Au, Ag	pyrite	quartz veins	Ingenika Group rocks (Stalkuz Formation) near the Manson fault zone	silica	showing reported in 1945
	20	093N 132	412875	6171390	SEM	(Au, Ag)	pyrite	quartz veins	Ingenika Group rocks (Stalkuz Formation)	silica	showing reported in 1942
VEINS (?)	21	093N 146	409850	6165500	Blackjack Mountain	Pb	galena (?)	vein (?)	Boulder Creek group phyllite and argillite	?	showing reported in 1946
DISSEMINATED PRECIOUS METALS	22	093N 198	399950	6172450	OCM	Au	pyrite, gold	disseminated	Tada Group altered volcanic siltstone, sandstone and conglomerate	carbonate, silica, sericite	1989 - geological mapping, geophysics

Figure 4. Manson District Mineral (silver) Occurrences; after Ferri et al. (1994).

	23	093N 010	389130	8202600	Jemima, B. B.V.D. 1-4	Zn, Pb, (Ba)	sphalerite, galena, (barite)	podiform to disseminated	Other Lakes group dolomite and arenaceous dolomite	carbonate	1989 - geophysics
STRATABOUND	24	093N 075	390250	8200150	W. Vernon, B.V.D. 32	Zn, Pb, Ag, (Ba)	sphalerite, galena, (barite)	disseminated to massive	Other Lakes group dolomite and arenaceous dolomite, massive in shear zones	carbonate	1988 - rock geochem, pathology
BASE	25	093N 076	390750	8200850	Vernon, Zone E. B.V.D. 33	Zn, Pb, Ag, (Ba)	sphalerite, galena, (barite)	disseminated to massive	Other Lakes group dolomite and dolomitic breccia	slight silica	1989 - geophysics
METALS	26	094C 066	384050	8214870	Whistler, FF	Zn, Pb, (Ba)	sphalerite, galena, (barite, pyrite, dolomite)	podiform to disseminated	Other Lakes group dolomite, megacrystic dolomite occurs as replacement	carbonate	showing reported in 1989
	27	093N 114	388550	8203750	Biddy, Rae	Zn, Pb, Ge, Ag	sphalerite, galena	replacement, fracture filling	Other Lakes group arenaceous dolomite and dolomite	slight silica	1989 - geophysics
	28	093N 158	387020	8207070	Crin, Cry	Pb, Zn	galena, sphalerite	podiform to disseminated	Other Lakes group dolomite	carbonate	1976 - trenching
	29	093N 172	392750	8198845	Sheila, Echo	Zn, Pb, Ag, (Ba)	sphalerite, galena, (barite, pyrite)	breccia filling, disseminated	Other Lakes group dolomitic breccia	carbonate	1974 - soil geochem, geological mapping
STOCKWORK BASE METALS	30	093N 170	389560	8206780	Oal	Pb, Zn, Ag	galena, sphalerite (hematite, siderite)	stockwork	Echo Lake group carbonates	carbonate	1974 - soil geochem, geological mapping
SULPHID SHEAR ZONE	31	093N 011	387120	8201100	Nine	Au, Ag, Cu, (Zn)	chalcopyrite, pyrite, (sphalerite)	shear zone	Nine Creek group sheared gabbro and lesser argillaceous chert	silica, epidote	1988 - diamond drilled
CARBONATITES	32	093N 012	413125	8171150	Lonia, Granite Creek	Nb, Zr, Ti, U, Th	pyrochlore, columbite, zircon	alkali syenite	Biotta syenite, syenite, agardite syenite intruding Ingenika Group rocks	alkali metasomatism	1979 - diamond drilled
	33	093N 174	411200	8174850	Virgil, Brent, Wolverine	Nb, Zr, REE, U, Ti	columbite, pyrochlore, zircon	alkali syenite	Biotta syenite, syenite intruding Ingenika Group metasediments	alkali metasomatism	1982 - soil geochem, geophysics
LAYERED REE (ALKALIC GNEISSES)	34	093N 201	436649	8159900	WII, WII 2	Th, REE, La, Ce, Nd, Y, Ta, Cu	monazite, chalcopyrite	layered, disseminated	Aegarine-augia syenite, monzonite, monzodiorite in the Ingenika Group.	alkali metasomatism	1988 - geology, soil and rock geochem
SULPHIDE BEARING AMPHIBOLITE GNEISS	35	093N 180	436805	8180287	Manson River East, MC	Cu	chalcopyrite, pyrite	disseminated	Ingenika Group plagioclase-biotite-amphibole gneiss (metamorphosed sediment)	none observed	showing reported in 1987
POPHYRYVEIN Mo	36	093N 118	407050	8180090	Blackjack East	Mo (Cu)	molybdenite (chalcopyrite)	quartz veins	Hornfelsed sediments within the Germansen batholith	Biotta, silica	1984 - geophysics
	37	093N 119	407075	8182850	Blackjack central & south	Mo (Cu)	molybdenite (chalcopyrite)	quartz veins	biotite, hornblende? hornfelsed Taldia Group pendant within the Germansen batholith	Biotta, silica	1970 - soil geochem, geological mapping
	38	093N 133	411451	8153252	Jord	Mo	molybdenite	quartz veins	biotite monzonite of the Germansen batholith	Biotta, silica	1981 - geochem, geophysics, mapping
ULTRAMAFIC ASBESTOS	39	093N 115	395380	8178550	Germansen River	asbestos	chrysotile	fibrous veins	Low to medium grade metamorphosed ultramafic rocks within the Manson fault zone	serpentine	showing reported in 1945
ULTRAMAFIC NICKEL	40	093N 116	397410	8178210	Ah Hoo Creek	Ni	pyrochlore, pentlandite	disseminated	Low to medium grade metamorphosed ultramafic rocks within the Manson fault zone	serpentine	1989 - prospecting
ULTRAMAFIC CHROMITE	41	093N 135	406100	8170300	NRS	Cr	chromite	disseminated	Low to medium grade metamorphosed ultramafic rocks within the Manson fault zone	serpentine	showing reported in 1942
STRATIFORM BARITE	42	093N 087	430500	8153820	Omnesca Queen	Ba	barite	stratiform, layered	Stratiform layers within Big Creek group slate and argillite	slight silica	1970 - soil geochemistry
SEDIMENTARY METAMORPHIC	43	093N 203	436500	8152400	Mon	C	graphite	disseminated	Upper amphibolite grade Ingenika Group marble, calc-silicates and biotite schist	none observed	1985 - rock geochem, geological mapping
DISSEMINATED SULPHIDES	44	093N 153	384150	8176150	Germ	Cu	chalcopyrite, pyrite	disseminated	Taldia Group volcanics (fragmental basalt and andesitic basalt)	none observed	1972 - geological mapping, soil geochem
	45	093N 147	385150	8182300	RLA	Cu	chalcopyrite?, pyrite?	?	Taldia Group argillite and siltstone	?	poorly known showing reported in 1945

Figure 4 – Continued

Blackhawk; (Minefile no. 93N 022); Nine quartz-sulphide veins 0.5 m to 3 m wide with assays up to 0.69 g/t gold, 1398.8 g/t silver, 3 % lead and 3 % zinc over 0.48 m.

Fairview; 1-3 m wide quartz vein, 48 m long with a west southwest strike returned up to 17.8 g/t gold and 85.73 g/t silver.

Wolf; A soil geochemical survey centered approximately 800 m southeast of the area drilled on the wally property identified a 400 m long 50 m wide silver anomaly with an inconsequential weak lead-zinc association.

Wally; In 2009, D. F. Penner, P.Geo., examined Pit 2 and sampled a 30 cm diameter pod of galena with some chalcopyrite within a shear zone with a 130° strike. This selected sulphide-rich sample assayed 3431 g/t silver, 2.22 g/t gold, 57.38 % lead, 5386 ppm copper and 4013 ppm antimony. An adjacent selected sample of oxidized sheared rock returned 6.52 g/t gold and 12,596 ppm arsenic and 30.7 ppm antimony. A second selected sample of oxidized sheared rock from

the same location returned 10.86 g/t gold and 30,292 ppm arsenic. Winter conditions and deep snow cover prevented a thorough examination by Penner.

5.0 REGIONAL AND PROPERTY GEOLOGY

The Late (?) Devonian to Permian Big Creek Group thinly to massive bedded shale, argillite, chert, sandstone is in fault (?) contact with Middle to Late Triassic Takla Group Slate Creek Succession thinly to massive bedded argillite, slate, calcareous argillite, siliceous argillite, polymict volcanic sandstone, conglomerate and tuff, limestone, chert and quartz-rich sandstone and siltstone and massive and pillowed basalt. Sedimentary units of the Pennsylvanian to Permian Nina Creek Group closely resemble the Big Creek and Takla Groups. The northwest-trending, vertical, transcurrent, anastomosing multi-strand Manson Fault Zone bisects the area adding complications for discerning which Group individual outcrops should be assigned. There are numerous silver-lead-zinc-copper^{+/-}-gold^{+/-} occurrences in proximity to the Manson Fault Zone which has a width of 1-5 km and a length of 65 km. The reader is referred to Ferri et al. (1994) for the 1:100,000 scale regional map and corresponding text.

The geological understanding in the area drilled is best based on the drill core, two small pits. Outcrops are few and far between on the property and no geological mapping has been undertaken. Strata intersected in the diamond core holes most closely resembles that of the Late Triassic Takla Group described by Ferri et al. (1994). This supported by the long intersection of massive non foliated andesite/basalt in hole MS17001. The complete lack of deformation may be explained by the andesite being much younger than the deformation event and thus not part of the Takla Group. Close to fault strands thinly bedded graphitic slates and argillites are highly deformed in contrast to more massive volcanically derived epiclastic greywackes and sandstones.

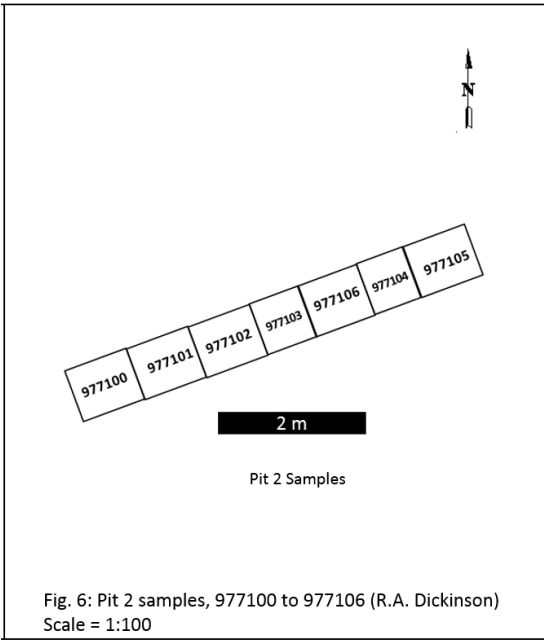
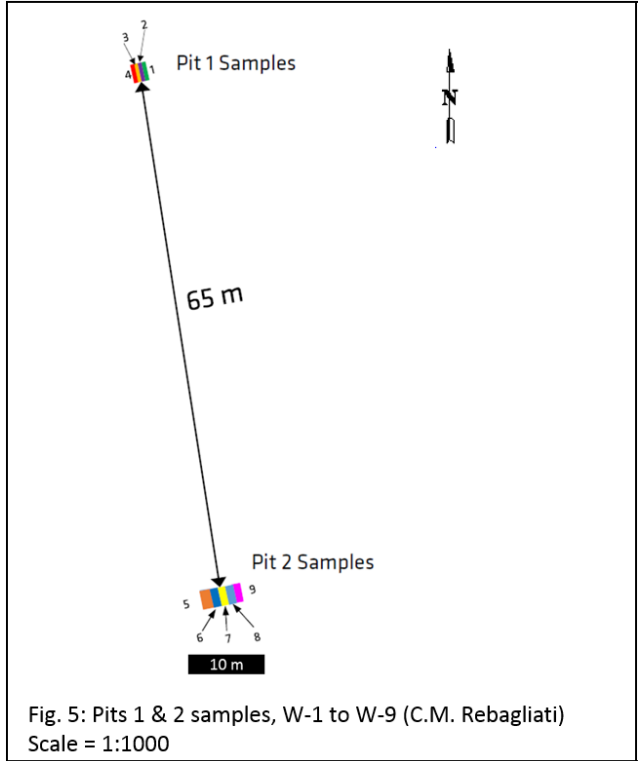
6.0 2017 EXPLORATION PROGRAM

The property was worked intermittently from August 22 to October 24, 2017. Work comprised 9 samples collected by C.M. Rebagliati, mainly of mineralized rock exposed in Pit 1 and Pit 2 (Figure 5) and 7 wall rock samples by R. A. Dickinson collected from Pit 2 (Figure 6) and the drilling and geological logging and sampling of nine diamond core holes totalling 674.83 m (Figure 7); core

storage is located at 14093 256th St., Maple Ridge, B.C. Drill hole geological cross sections are in Figures 8-14.

Hole_ID	Length_m	UTM_East	UTM_North	Az	Dip	Elevation_m
MS17001	126.52	410488	6169644	90	-45	928
MS17002	47.54	410554	6169638	130	-45	920
MS17003	47.85	410555	6169708	170	-45	890
MS17004	41.75	410572	6169610	170	-45	922
MS17005	41.46	410584	6169619	270	-45	920
MS17006	158.80	410490	6169647	105	-50	928
MS17007	53.94	410068	6169548	0	-50	975
MS17008	75.59	410605	6169518	0	-50	925
MS17009	81.38	410606	6169519	270	-50	925

Table 1. Drill hole coordinates and specifications.



Figures 5 and 6. Sequence and location of Pit samples.

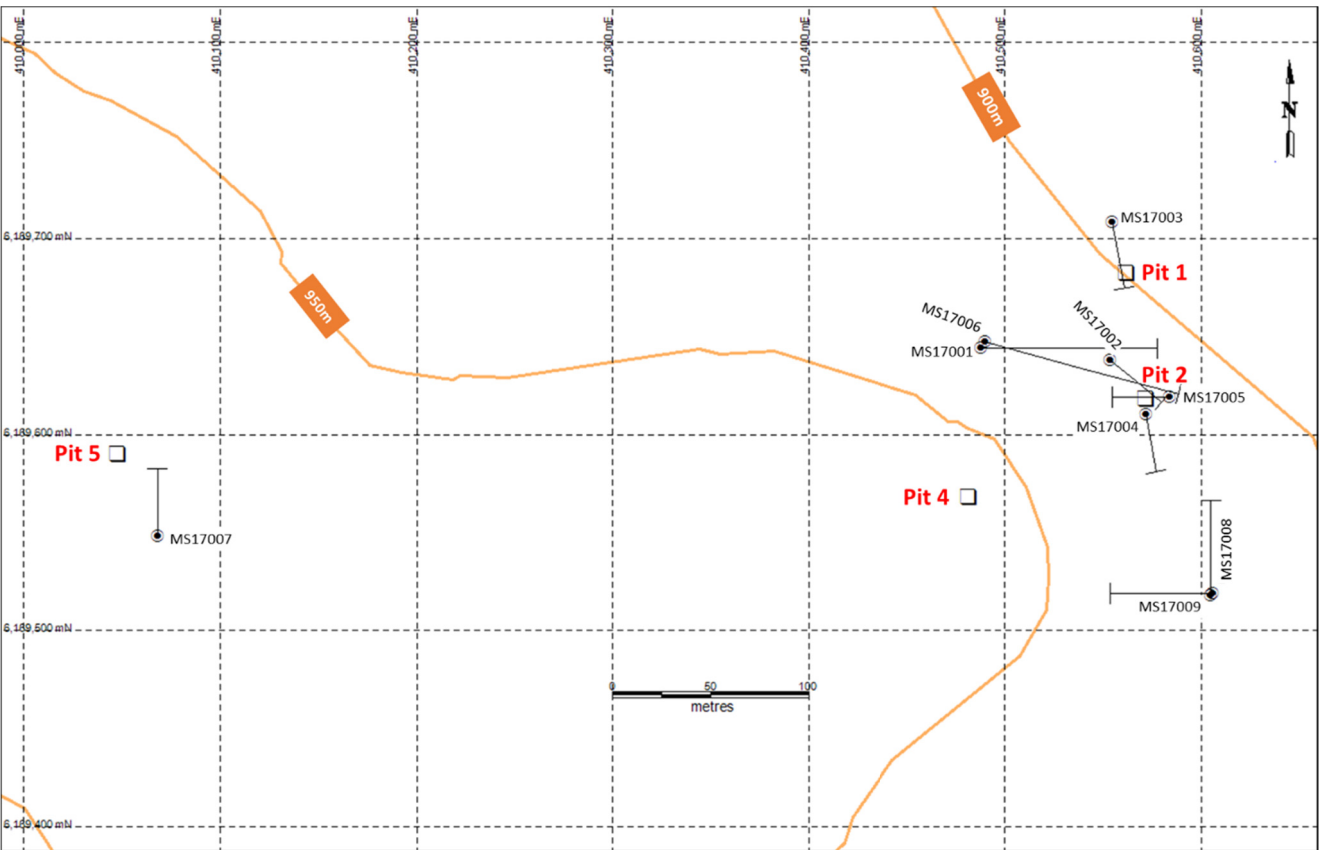


Figure 7a. Diamond drill holes-pits plan. Scale = 1:4,000

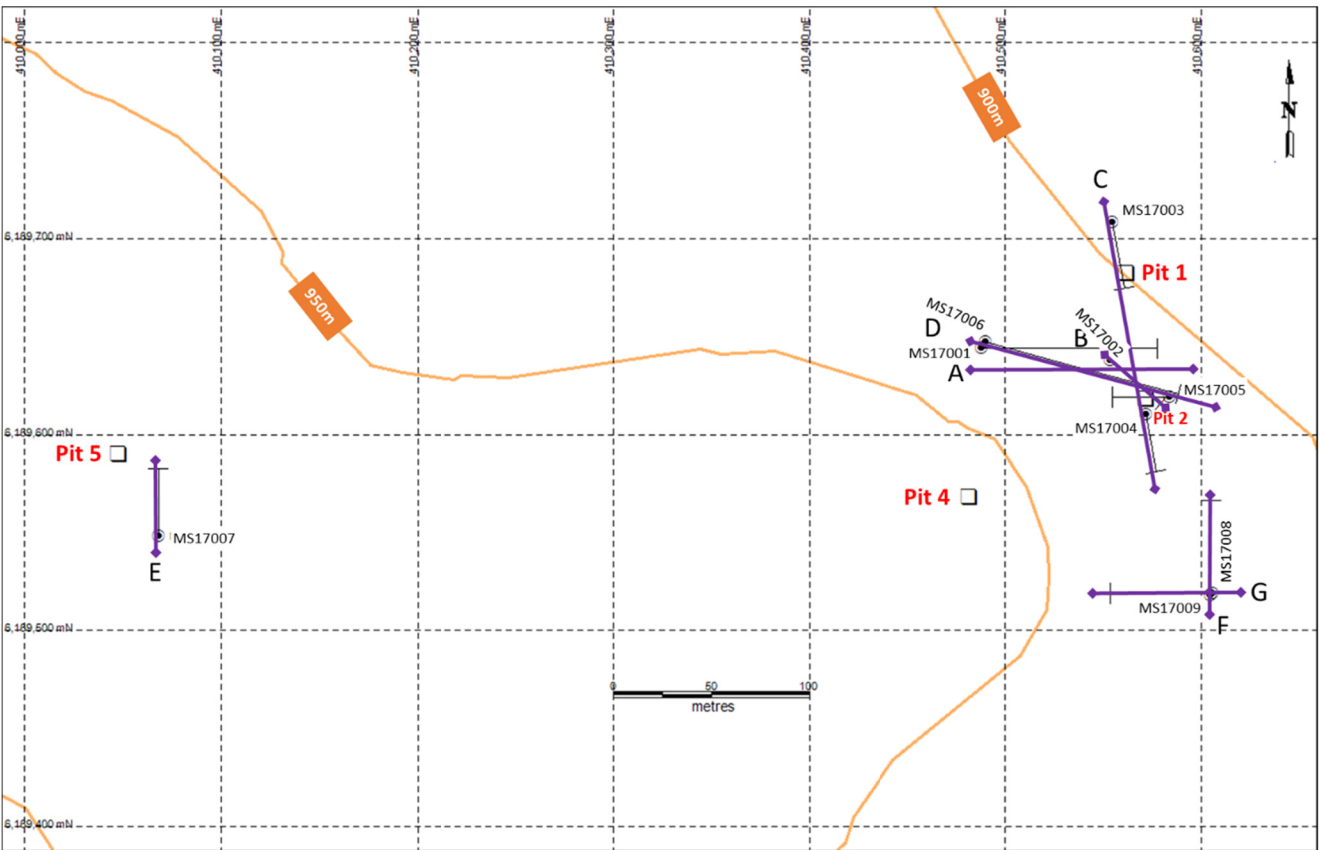


Figure 7b. Diamond drill holes-pits plan and section lines A to G. Scale = 1:4,000

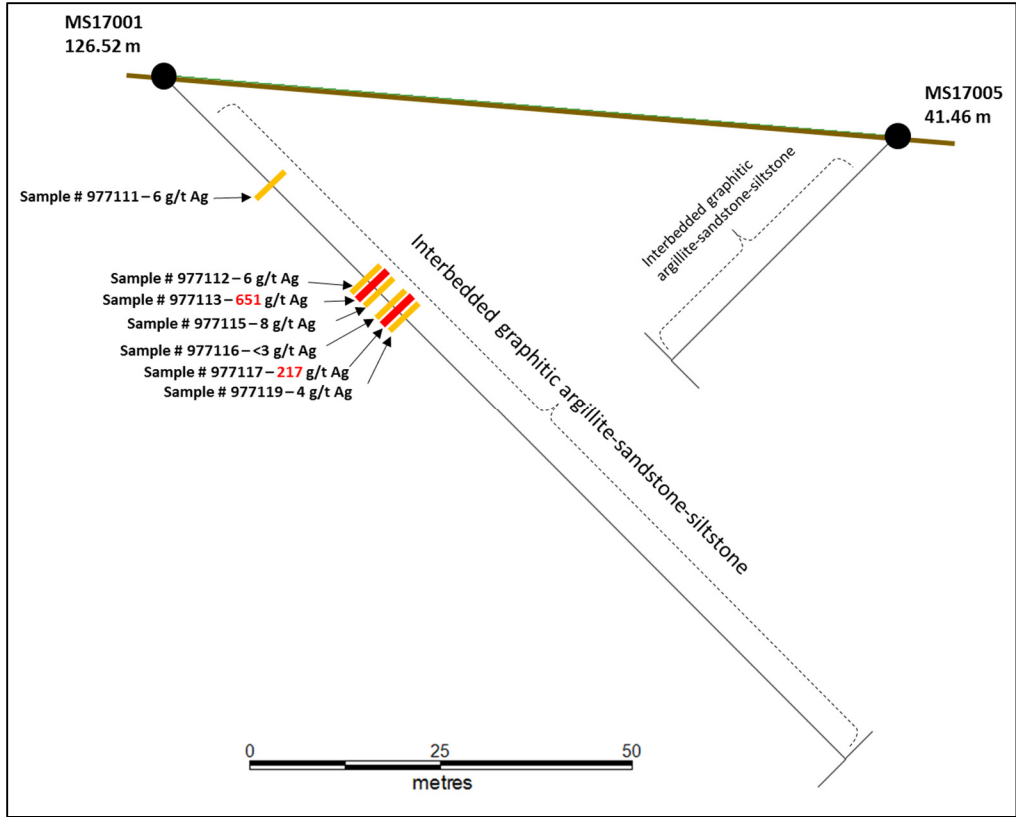


Figure 8. Cross section A (Scale = 1:1000); holes MS17001 and MS17005 – Looking North

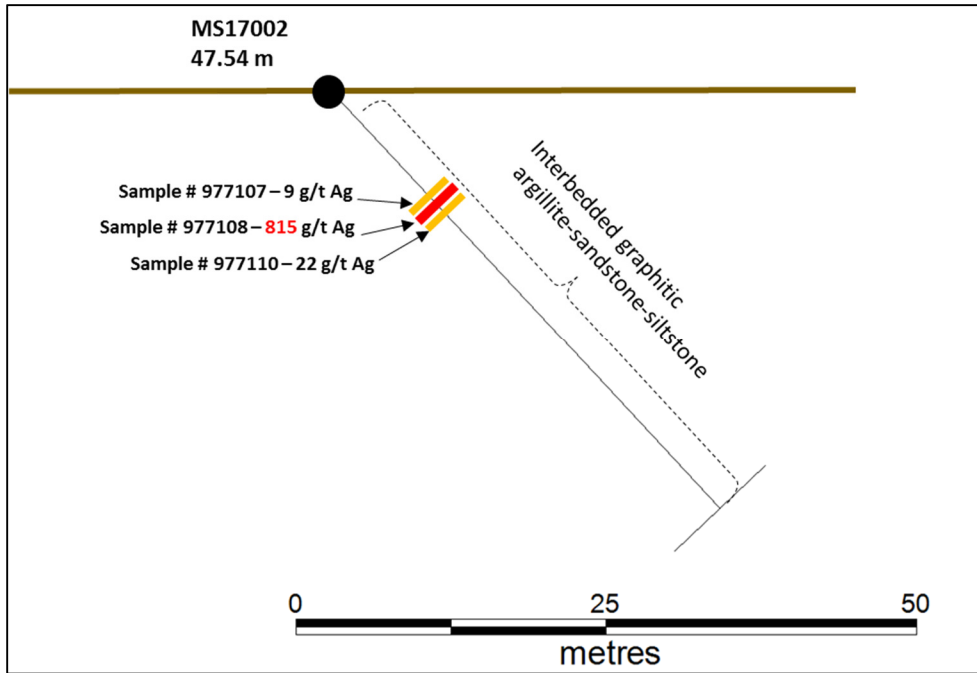


Figure 9. Cross section B (Scale = 1:600); hole MS17002 – Looking Northeast

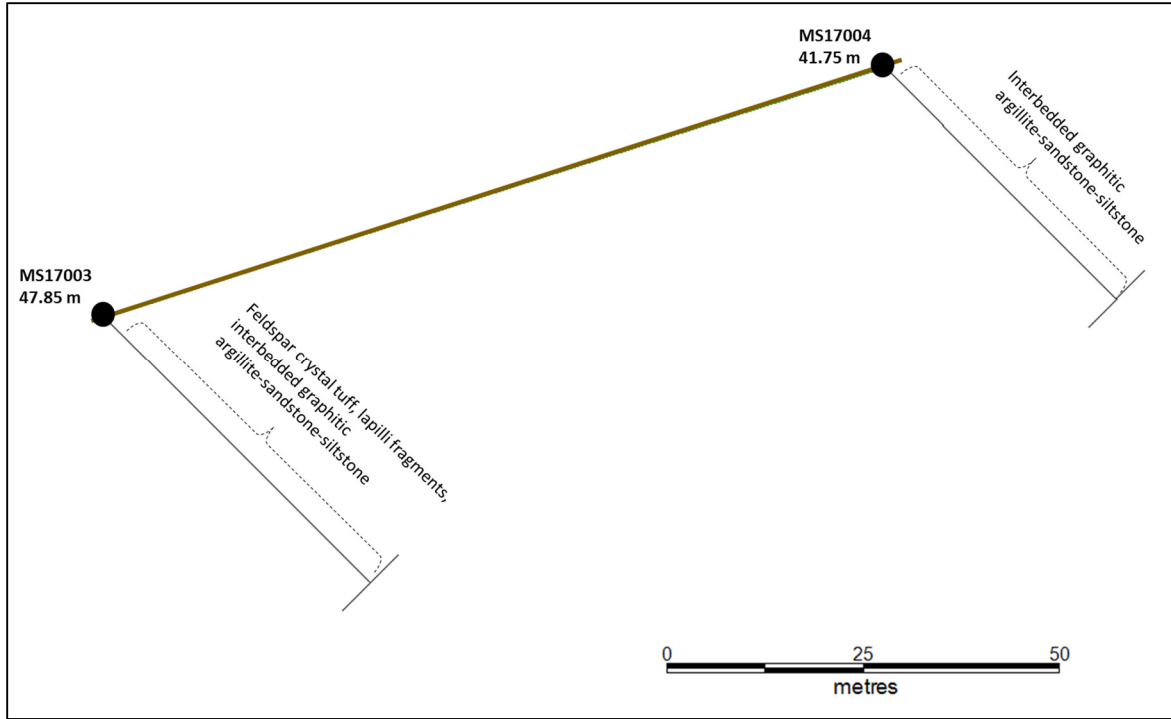


Figure 10. Cross section C (Scale = 1:1000); holes MS17003 and MS17004 – Looking Northeast

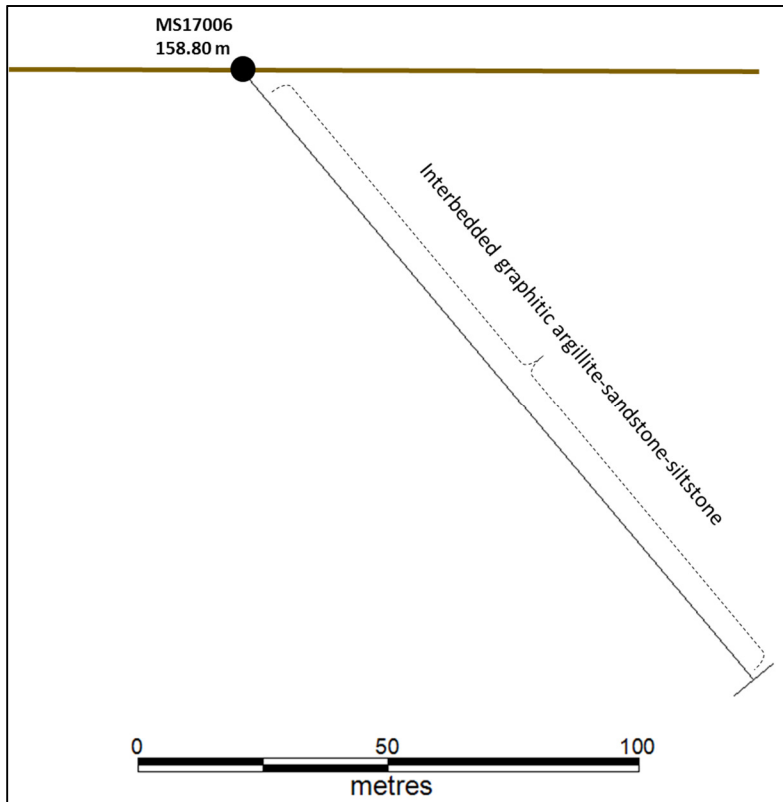


Figure 11. Cross section D (Scale = 1:1,500); hole MS17006 – Looking Northeast

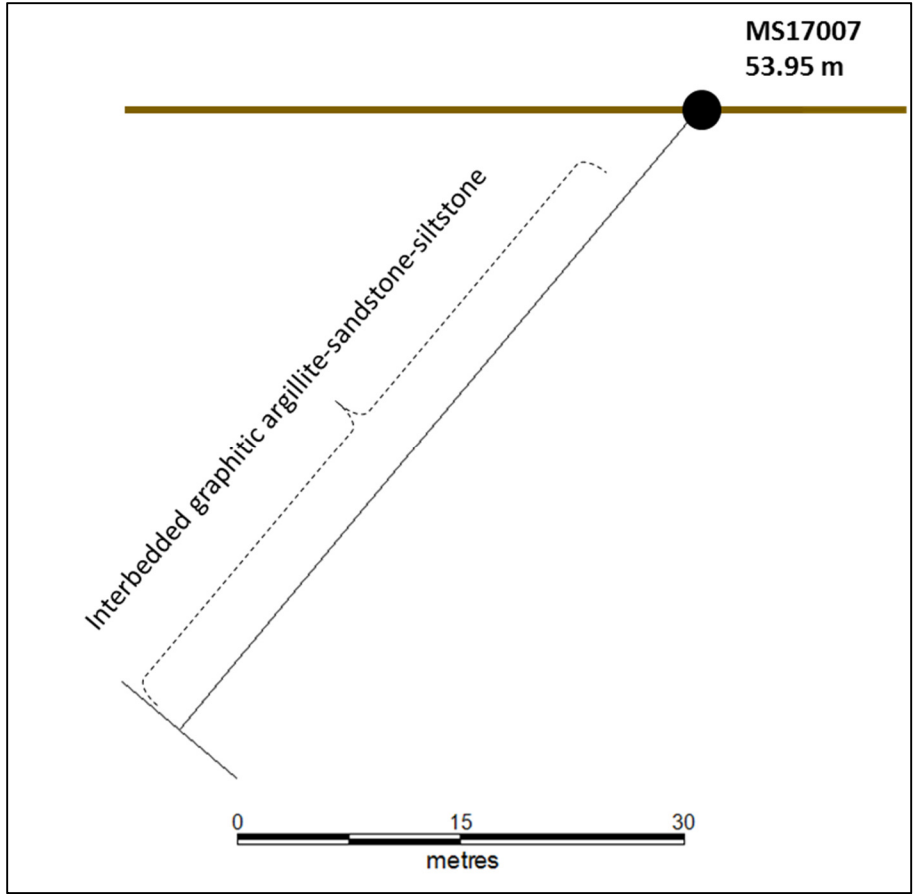


Figure 12. Cross section E (Scale = 1:500); hole MS17007 – Looking East

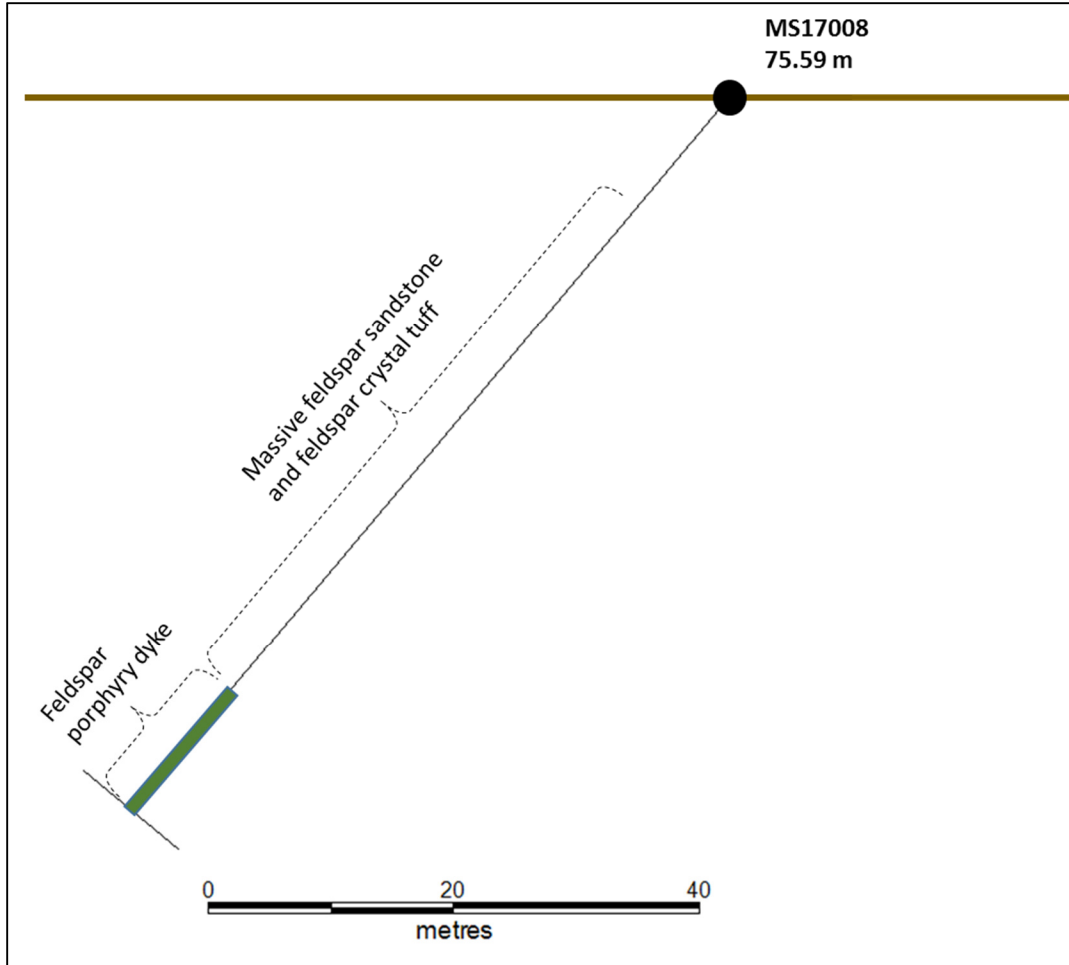


Figure 13. Cross section F (Scale = 1:600); hole MS17008 – Looking East

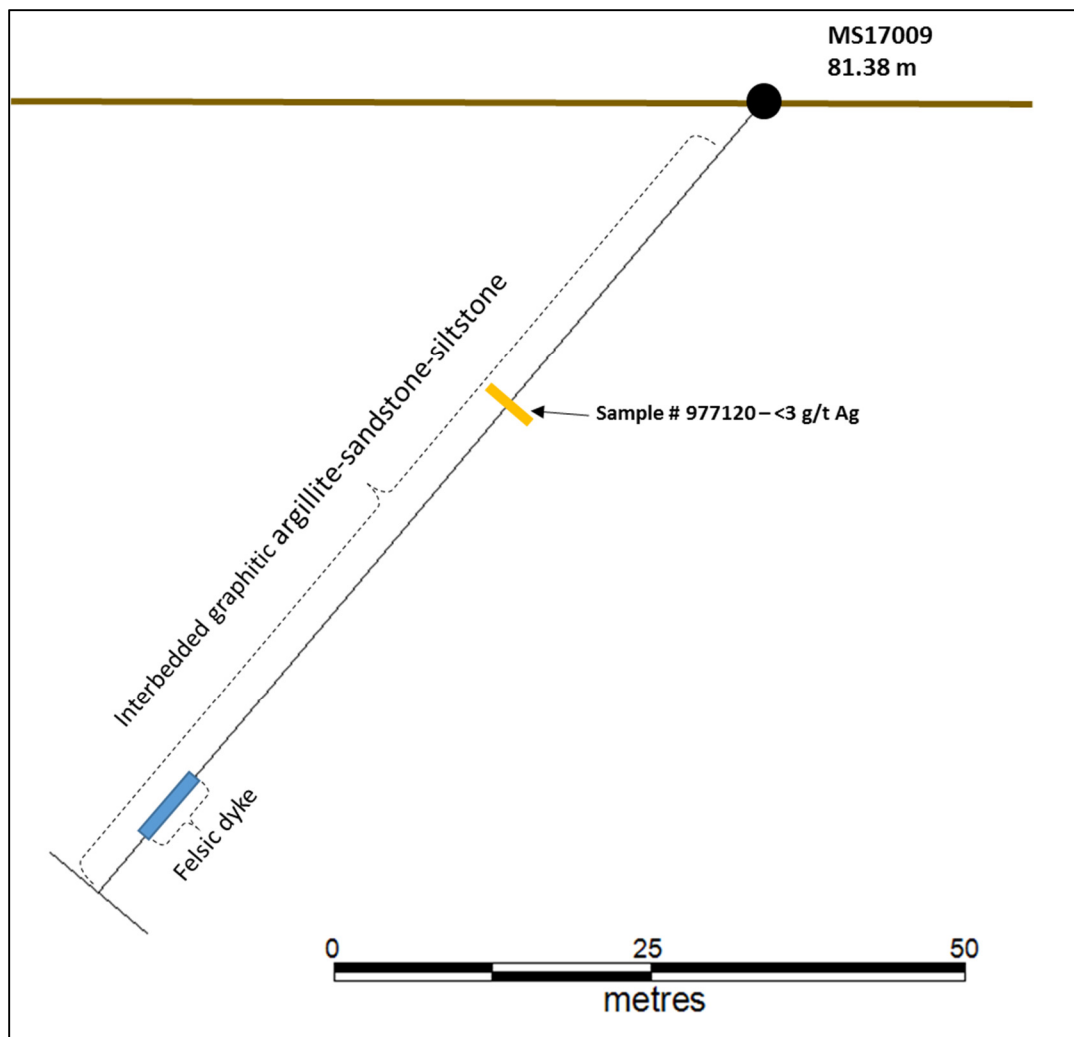


Figure 14. Cross section G (Scale = 1:600); hole MS17009 – Looking North

7.0 DISCUSSION OF RESULTS

Samples from veins exposed in Pits 1 & 2 returned variable high concentrations (values) of silver, gold, lead, zinc and copper and associated elevated concentrations of arsenic and antimony (Table 2). Core sample assays are in Table 3.

Sample Number	Pit #	Length_m	Ag g/t	Au g/t	Pb %	Zn %	Cu %	As ppm	Sb ppm
977100	2	0.91	3	< 0.03	0.015	0.028	0.006	920	< 20
977101	2	0.91	5	< 0.03	0.017	0.025	0.007	2670	< 20
977102	2	0.91	< 3	< 0.03	0.004	0.016	0.003	1010	< 20
977103	2	0.60	4	< 0.03	0.005	0.023	0.005	1570	< 20
977104	2	0.6	4	< 0.03	0.009	0.018	0.005	800	< 20
977105	2	0.91	95	< 0.03	1.32	0.172	0.012	1190	80
977106	2	0.91	5	0.3	0.008	0.035	0.005	5220	< 20
W-1	1	0.5	869	0.55	16.2	20.2	0.462	280	150
W-2	1	0.5	402	< 0.03	6.67	9.96	0.241	80	< 50
W-3	1	0.5	264	< 0.03	2.71	7.44	0.036	110	60
W-4	1	0.5	82	< 0.03	1.7	2.44	0.038	90	< 50
W-5	2	1.4	307	< 0.03	2.22	0.696	0.057	580	120
W-6	2	1	238	< 0.03	2.12	1.77	0.074	5090	80
W-7	2	0.7	2050	4.63	26.9	1.65	0.457	1760	1020
W-8	2	1	< 3	< 0.03	0.035	0.049	0.004	1180	< 50
W-9	2	1	< 3	< 0.03	0.021	0.019	0.005	1440	< 50

Table 2. Pit sample assay results

Two narrow veins were intersected in hole MS17001 and one narrow vein was intersected in hole MS17002 which undercut Pit 2.

Sample Number	Hole_ID	From_m	To_m	Length_m	Ag g/t	Au g/t	Pb %	Zn %	Cu %	As ppm	Sb ppm
977107	MS17002	11.94	12.43	0.49	9	< 0.03	0.091	0.028	0.008	210	< 20
977108	MS17002	12.43	12.72	0.29	815	0.59	8.72	16.3	0.145	30	620
977109				Blank	< 3	< 0.03	0.002	0.004	< 0.001	< 10	< 20
977110	MS17002	12.72	13.25	0.53	22	< 0.03	0.493	0.115	0.004	110	< 20
977111	MS17001	19.43	20.20	0.77	6	0.58	< 0.001	0.015	0.003	5140	30
977112	MS17001	40.22	40.82	0.60	6	< 0.03	0.03	0.056	0.002	20	< 20
977113	MS17001	40.82	40.99	0.17	651	0.99	12.7	20.4	0.009	90	550
977114				Blank	3	< 0.03	0.003	0.005	< 0.001	< 10	< 20
977115	MS17001	40.99	41.30	0.31	8	< 0.03	0.092	0.101	0.004	40	< 20
977116	MS17001	41.3	42.16	0.86	< 3	< 0.03	0.009	0.01	0.002	160	< 20
977117	MS17001	42.16	42.30	0.14	217	< 0.03	4.31	15.1	0.074	< 10	150
977118				Blank	11	< 0.03	0.001	0.004	< 0.001	< 10	< 20
977119	MS17001	42.30	43.00	0.70	4	< 0.03	0.006	0.017	0.002	60	< 20
977120	MS17009	31.05	31.57	0.52	< 3	< 0.03	0.005	0.009	0.003	150	< 20
977121	MS17009			Standard	133	< 0.03	0.935	0.539	0.55	240	430

Table 3. Core sample assay results

The discrepancy in the width of the mineralized interval in Pit 2 vs. the vein intersected in hole MS17002 is unresolved, although it is possible these are two different veins. It is apparent, however, that all three veins intersected in the two holes were very narrow 0.17, 0.14 and 0.29 m.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Silver-rich, shear hosted veins, with appreciable concentrations of gold, lead, zinc and copper, are numerous in the Germansen - Manson placer gold district. In spite of their high precious and base metal concentrations, none of the veins discovered in the district have had sufficient value to support mine development. This is likely because the structural setting is such that the shear-hosted veins will be lens-shaped with very limited length and continuity along strike and down dip. Thus the narrow <30 cm vein thicknesses of the five veins in the two pits and in two drill holes will make the delineation of a resource of sufficient size to support a mineable deposit a challenging and costly task.

If additional exploration is contemplated, more cost effective trenching is recommended wherever veins are known or are reported to be located under sites reclaimed by the placer miners. Trenching will determine the veins' orientation, thickness and continuity to better optimise hole locations and orientation prior to initiating drilling should drilling be contemplated.

9.0 REFERENCES

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- McAllister, S.G. and Sandberg, T.M. (1988): Geological, Geophysical and Trenching Report On The Fair Claim, AR # 18,012.
- Wesley, R., (2013): Soil Sampling Report On The Manson Creek Property, AR # 34,364.

10.0 EXPENDITURES

Personnel

C. M. Rebagliati, P. Eng.: 13 days at \$1500/day	<u>\$19,500.00</u>
August 22-24, October 19-24, 2017; February 21-23, 2018	
R. A. Dickinson, B.Sc., Geology: 3 days at \$1000/day	<u>\$3,000.00</u>
October 1-3, 2017	
F. Shirmohammad M.Sc. P. Geo.: 8 days at \$300/day	<u>\$2,400.00</u>

Travel, Meals and Miscellaneous

C. M. Rebagliati	<u>\$1,483.98</u>
R. A. Dickinson	<u>\$493.08</u>

Analyses

39 samples at \$79.82	<u>\$3,113.02</u>
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Diamond Drilling

674.83 m at \$134.81 /m all inclusive	<u>\$90,973.83</u>
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Total	<u>\$120,963.91</u>
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11.0 STATEMENT OF QUALIFICATIONS

I, **C. Mark Rebagliati**, P. Eng., of Vancouver, British Columbia, Canada, do hereby state that:

1. I am President of Rebagliati Geological Consulting Ltd. with offices at 404-1040 Bayshore Drive, Vancouver, British Columbia, Canada, V6G 3H6.
2. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, holding License Number 8352.
3. I graduated with a B.Sc. in geological engineering from Michigan Technological University, Houghton, Michigan, USA in 1969.
4. I have worked as an exploration geologist for a total of 48 years since my graduation from university.

Signed on the 27th day of March, 2018

C. Mark Rebagliati, P. Eng.

I, **Farshad Shirmohammad**, M.Sc. P.Geo., of Vancouver, British Columbia, Canada, do hereby state that:

1. I am geologist with United Mineral Services Ltd. with offices at 15th Floor, 1040 W. Georgia Street, Vancouver, British Columbia, Canada, V6E 4H1.
2. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, holding License Number 39336.
3. I graduated with a M.Sc. Degree in geology from University of British Columbia, Canada, in 2006.
4. I have worked as an exploration geologist for a total of 12 years since my graduation from university.

Signed on the 27th day of March, 2018

Farshad Shirmohammad, M.Sc., P.Geo.

APPENDIX 1

PIT SAMPLE DESCRIPTIONS AND ASSAY CERTIFICATES

Pit 1 Samples: Rebagliati

W-1: length 0.5 m, strongly weathered, sheared argillite/shale, including a 0.13 m sulphide-rich vein containing quartz, pyrite, galena, sphalerite and chalcopyrite.

UTM coordinates (Zone 10): 410,567 E, 6,169,681 N

W-2: length 0.5 m, strongly weathered, sheared argillite/shale, including narrow mm to cm thick veinlets/fracture fillings.

UTM coordinates (Zone 10): 410,565 E, 6,169,681 N

W-3: length 0.5 m, strongly weathered, argillite/shale, including mm thick sulphide fractures/veinlets.

UTM coordinates (Zone 10): 410,563 E, 6,169,681 N

W-4: length 0.5 m, strongly weathered, grey argillite/shale, 3 % pyrite, some galena and sphalerite.

UTM coordinates (Zone 10): 410,561 E, 6,169,681 N

Pit 2 Samples: Rebagliati

W-5: length 1.4 m, moderately weathered grey graphitic argillite/shale, 2 % pyrite, some galena and minor sphalerite in veinlets.

UTM coordinates (Zone 10): 410,569 E, 6,169,617 N

W-6: length 1.0 m, moderately weathered graphitic argillite/shale, 2 % pyrite, some galena, arsenopyrite and sphalerite in veinlets.

UTM coordinates (Zone 10): 410,573 E, 6,169,617 N

W-7: length 0.7 m, moderately weathered, graphitic sheared argillite/shale, including a 0.1 m sulphide-rich quartz, pyrite, galena, sphalerite, chalcopyrite vein.

UTM coordinates (Zone 10): 410,573 E, 6,169,617 N

W-8: length 1.0 m, weathered, variably graphitic argillite/shale, 2% pyrite.

UTM coordinates (Zone 10): 410,575 E, 6,169,617 N

W-9: length 1.0 m, weathered, graphitic argillite/shale, 3% pyrite.

UTM coordinates (Zone 10): 410,572 E, 6,169,617 N

Pit 2 Samples: Dickinson

977100: length 0.91 m, graphitic schist. **UTM: 410,570 E, 6,169,607 N (Zone 10)**

977101: length 0.91 m, graphitic schist. **UTM: 410,571 E, 6,169,608 N (Zone 10)**

977102: length 0.91 m, graphitic schist, 3-6 mm wide quartz stockwork veinlets.
UTM: 410,572 E, 6,169,609 N (Zone 10)

977103: length 0.60 m, graphitic schist, 3-6 mm wide quartz stockwork veinlets.
UTM: 410,574 E, 6,169,610 N (Zone 10)

977104: length 0.60 m, graphitic schist. **UTM: 410,576 E, 6,169,612 N (Zone 10)**

977105: length 0.91 m, graphitic schist. **UTM: 410,577 E, 6,169,613 N (Zone 10)**

977106: length 0.91 m, graphitic schist. **UTM: 410,575 E, 6,169,611 N (Zone 10)**

977107: length 0.49 m, graphitic schist, internal to sample 977102.

Representative Samples (core-outcrops):

8: Small quartz-muscovite-pyrite boudins; core from MS17005 at 134 ft.

9A: Fine grained schist, pyrite-chalcopyrite (?) bearing; core from MS17001 at 134 ft.

9B: Fine grained schist, slightly coarser pyrite grains; core from MS17001 at 29 ft.

10: Fine grained schist, pyrite bearing; chlorite alteration; core from MS17001 at 53 ft.

11: Fine grained schist, lesser pyrite; sericite-chlorite-pyrite alteration.

12: Very fine grained schist (?), QSP/Quartz, porphyritic sandy texture, some cubic pyrite.

13: Small quartz-muscovite-pyrite boudins.

14: Porphyritic texture with small white porphyry crystals. Moderate to strong QSP-chlorite alteration, numerous quartz micro veinlets.

Samples 11-14 were taken from pit 2 area at ~**410,575 E, 6,169,620 N (Zone 10)**

APPENDIX 2
DIAMOND DRILL LOGS AND CORE SAMPLE ASSAYS

Project: Manson Silver

Hole ID:	MS 17001
Logged By:	C.M. Rebagliati
Date:	Oct. 21, 2017

UTM NAD 83 Zone 10	
Easting	410,488
Northing	6,169,644
Elevation	928

Direction/Length	
Azimuth	90
Inclination	-45
Length	126.52 m

From (m)	To (m)	Interval (m)	Description	Sample
0.00	8.23	8.23	Overburden (OB)	
8.23	13.41	5.18	Deformed cataclastic black graphitic argillite, minor siltstone laminae. 8.23-12.0 WF frac. 0.5% Pyrite, disseminated and 1-10mm cubes. At 12.60m-13.41m white bull quartz vein	
13.41	17.00	3.59	Pale grey cataclastic rock, Feldspar with sericite matrix. Pervasive sericite alteration; disseminated fine-grained pyrite (0.25%).	
17.00	19.32	2.32	Cataclastic feldspar crystal tuff (?) minor black argillite wisps matrix (feldspar porphyroblastic). Chlorite + Sericite alteration; 1% pyrite as disseminations and 1-10mm cubes. White bull quartz vein.	
19.32	20.20	0.88	Protolith unknown possibly same as above. Fuchsite green muscovite. Silicification, bright green. 0.5% arsenopyrite disseminated; pyrite 1% disseminated	19.43-20.20m (Fuchsite); Sample # 977111
20.20	30.00	9.80	Grey siltstone with black argillite, laminae 45 degree to C/A (fault 28.96-30.00); 1% disseminated pyrite.	
30.00	35.20	5.20	Black graphitic argillite transitioning to siltstone 30 degree to CA. Fe carbonate porphyroblasts alteration; 1% pyrite; Quartz+Carbonates vein 1-10mm.	
35.20	36.84	1.64	Siltstone partly cataclastic. Fe carbonate porphyroblasts and pervasive alteration of feldspar grains; 0.25% pyrite.	
36.84	39.20	2.36	Quartzite - Siltstone. Weak pervasive Fe carbonate; 0.25% disseminated pyrite.	
39.20	40.82	1.62	Black argillite - siltstone; 1% disseminated pyrite.	40.22-40.82; Sample # 977112

Manson Silver Project		Hole MS17001		
From (m)	To (m)	Interval (m)	Description	Sample
40.82	40.99	0.17	Semi-Massive sphalerite-galena-chalcopyrite-Fe carbonate 80 degree to CA. 0.3% Chalcopyrite; 1% pyrite; 40% sphalerite; 20% galena.	40.82-40.99 (Vein); Sample # 977113
40.99	41.30	0.31	Black argillite; 0.25% pyrite.	40.99-41.30; Sample # 977115
41.30	42.16	0.86	Feldspathic tuffaceous sandstone? Pervasive Fe carbonate plus weak fuchsite - muscovite; disseminated 0.25% pyrite.	41.30-42.16; Sample # 977116
42.16	42.30	0.14	Vein cm-thick bands of Sphalerite-Galena; looks conformable; 90 degrees to the core axis. 0.3% chalcopyrite; 1% pyrite; 20% sphalerite; 10% galena	42.16-42.30m (Vein); Sample # 977117
42.30	48.40	6.10	Black argillite mixed with tuff and siltstone and quartzite bedding 90 degrees to C/A; 0.1% disseminated pyrite.	42.30-43.00m; Sample # 977119
48.40	53.35	4.95	Light grey-green. Siltstone; laminae 5-30 degrees to C/A; trace pyrite.	
53.35	57.20	3.85	White-light grey. Quartzite; laminae 0-30 degrees to C/A; 0.5% (pyrrhotite-pyrite), fracture fillings.	
57.20	59.00	1.80	Grey-green. Tuff(?); trace pyrite. Small white bull quartz vein	
59.00	65.76	6.76	Dark green. Andesite dyke; contact 25 degrees to core axis; minimal strain. 0.5% disseminated pyrite.	
65.76	67.79	2.03	White-light grey. Quartzite; bands 15 degrees to C/A	
67.79	126.52	58.73	Andesite with inclusions of quartzite and dark green tuff (?), suggests dyke contact is near parallel to bedding - in and out-in and out; below 110m to EOH, FeCo ₃ alteration of feldspar grains. Trace-disseminated pyrite with rare 5-10 mm cubics. Fe-Carbonate to quartz veining. EOH.	

Project: Manson Silver

Hole ID:	MS 17002
Logged By:	C.M. Rebagliati
Date:	Oct. 20, 2017

UTM NAD 83 Zone 10	
Easting	410,554
Northing	6,169,638
Elevation	920

Direction/Length	
Azimuth	130
Inclination	-45
Length	47.54 m

From (m)	To (m)	Interval (m)	Description	Sample
0.00	3.05	3.05	OB	
3.05	40.80	37.75	Light grey and black alternating (laminae) black graphitic argillite and siltstone highly tectonized-cataclastic deformation from 31.60. Fe carbonate in siltstone laminae and rimming feldspar porphyroblasts (?). 0.1-16mm pyrite cubes. Quartz and Fe-carbonate veins 1-15 mm. Fault at 12.8-13.15; brecciated pyrite veinlets. 12.48 to 12.70 polymetallic sulphide vein: 1% chalcopyrite, 30% brown sphalerite, 20% galena, with 20% feldspar + Fe-Carbonate + chlorite	11.93-12.43m; sample # 997107. 12.43-12.72m (vein); sample # 997108 12.72-12.25m; sample # 997110
40.80	47.54	6.74	Thinly laminated siltstone with cherty intervals; light grey-green 5 to 30cm intervals of feldspathic tuff. Fe-carbonates in coarse laminae. EOH.	

Project: Manson Silver

Hole ID:	MS 17003
Logged By:	C.M. Rebagliati
Date:	Oct. 20, 2017

UTM NAD 83 Zone 10	
Easting	410,555
Northing	6,169,708
Elevation	890

Direction/Length	
Azimuth	170
Inclination	-45
Length	47.85 m

From (m)	To (m)	Interval (m)	Description	Sample
0.00	7.01	7.01	OB	
7.01	15.45	8.44	Felsic lapilli fragments with fine-grained matrix; minor black argillite laminae; cm scale bands of pale green intense sericite alteration; trace to minor 0.1% pyrrhotite; seams of trace pyrrhotite-pyrite and 0.1% chalcopyrite.	
15.45	18.65	3.20	Sub mm scale Po-Py-Cp veinlets and fracture fillings. Quartz eye feldspar crystal tuff-porphyroblastic. Pervasive chlorite alteration; trace pyrite.	
18.65	29.56	10.91	Grey siliceous siltstone with laminae of black pyritic argillite bedding 60-80 deg. TCA. Disseminated rare pyrrhotite with 0.3% pyrite in black argillite; quartz veinlets and carbonate veinlets.	
29.56	30.34	0.78	50% quartz and 50% sericite with trace pyrite.	
30.34	31.30	0.96	Disseminated 0.5% pyrite, white quartz vein; thin sericite filled fractures and bands with disseminated pyrite.	
31.30	32.61	1.31	Quartz eye (rare) feldspar crystal tuff (feldspar porphyroblastic); 0.25% pyrite. Brecciated quartz veinlets and cross-cutting quartz carbonate veins 1-15mm.	
32.61	35.57	2.96	Fine-grained tuff with some mm-scale laminae with disseminated fine-grained magnetite; Fe-carbonate altered feldspar; 1% disseminated pyrite. Pyritic 1-4mm quartz Fe-carbonate veinlets cross cut by chlorite veins.	
35.57	47.65	12.08	Massive feldspar crystal tuff with thin mm-cm scale laminae of ash tuff/siltstone-disseminated magnetite. Feldspar is Fe-carbonate altered. Pyrite 0.5% as 0.1-10mm cubes. Veins are quartz-Fe-Carbonate veinlets.	
47.65	47.85	0.20	White bull quartz vein. EOH	

Project: Manson Silver

Hole ID:	MS 17004
Logged By:	C.M. Rebagliati
Date:	Oct. 20, 2017

UTM NAD 83 Zone 10	
Easting	410,572
Northing	6,169,610
Elevation	922

Direction/Length	
Azimuth	170
Inclination	-45
Length	41.75 m

From (m)	To (m)	Interval (m)	Description	Sample
0.00	2.74	2.74	OB	
2.74	4.45	1.71	Grey fine-grained quartz sandstone with black specks and thin wisps of argillite; silicified; 0.1% fine grain-disseminated pyrite	
4.45	9.45	5.00	Light grey, fine-grained sandstone with 1-10 mm black argillite laminae; silicified; 1% pyrite (disseminated); carbonate veins (0.5% calcite).	
9.45	10.67	1.22	Alternating lamina of siltstone and black argillite; silicified; 1.5% pyrite (1-10mm cubes) and minor quartz pyrite veins.	
10.67	25.90	15.23	Black grey argillite interbedded with light grey siltstone and black graphitic argillite; variably tectonized and brecciated; patchy to pervasive siderite in siltstone beds and in some quartz veinlets; bedding 45-80 deg. TCA. Pyrite cubes 1-10mm. Numerous calcite (carbonate) veining; white and blue grey quartz veins, 1-5mm, all brecciated.	
25.90	41.75	15.85	Black to medium grey sandstone/black argillite (graphitic), with lesser interbedded mm-cm thick siltstone; fine-grained sandstone beds/laminae 60-80 deg. TCA. Fe-carbonate pervasive alteration in sandstone laminae; 2% pyrite as fine-grained disseminated to 10mm cubes. 5% quartz carbonate veins. Phyllite over print-highly tectonized bedding. EOH.	

Project: Manson Silver

Hole ID:	MS 17005
Logged By:	C.M. Rebagliati
Date:	Oct. 21, 2017

UTM NAD 83 Zone 10	
Easting	410,584
Northing	6,169,619
Elevation	920

Direction/Length	
Azimuth	270
Inclination	-45
Length	41.46 m

From (m)	To (m)	Interval (m)	Description	Sample
0.00	3.05	3.05	OB	
3.05	31.67	28.62	Black graphitic argillite with laminae of grey siltstone bedding 35 deg. TCA; weak pervasive Fe-carbonate alteration with 2% pyrite, 1-25mm cubes. Some pyrite veins 1-10mm thick. Carbonate veins mm scale and 80 deg. TCA. Quartz-carbonate veins mm scale, some Fe-carbonate.	
31.67	32.62	0.95	Light grey quartzite sericite matrix.	
32.62	41.46	8.84	Black graphitic argillite with siltstone laminae; weak pervasive Fe-carbonate alteration; 2% pyrite with 1-30mm size cubes; minor carbonate-quartz veins. EOH.	

Project: Manson Silver

Hole ID:	MS 17006
Logged By:	C.M. Rebagliati
Date:	Oct. 22, 2017

UTM NAD 83 Zone 10	
Easting	410,490
Northing	6,169,647
Elevation	928

Direction/Length	
Azimuth	105
Inclination	-50
Length	158.80m

From (m)	To (m)	Interval (m)	Description	Sample
0.00	5.79	5.79	OB	
5.79	26.82	21.03	Black graphitic argillite + siltstone cataclastic breccia with Fe-carbonate porphyroblasts.	
26.82	62.40	35.58	Black graphitic argillite - minor siltstone laminae, Fe-carbonate porphyroblasts; Fe-carbonate-quartz veinlets with 1% disseminated pyrite (cubes to 10 mm); bedding 40-60 deg. TCA. Bull quartz vein-Fe-carbonate at 61.90-62.40.	
62.40	87.00	24.60	Siltstone 60%, black argillite 40%. Fe-carbonate porphyroblasts and altered feldspar. Fe-carbonate alteration with 1% disseminated pyrite and some cubes 1-10mm.	
87.00	91.46	4.46	Feldspathic sandstone (arkose) with siltstone + argillite laminae. Trace pyrite.	
91.46	117.34	25.88	Black graphitic argillite with a few thin siltstone laminae. Weak Fe-carbonate alteration. Fault at 109.0-109.42. Pyrite as disseminated and cubes (1-15 mm).	
117.34	120.09	2.75	Grey siltstone with 30% Fe-carbonate porphyroblasts and some interbedded black argillite. Fe-carbonate alteration with trace pyrite.	
120.09	129.00	8.91	Black graphitic argillite with interbedded siltstone, 70 deg. TCA. Fault at 124.70-126.0; 1% disseminated pyrite; White bull quartz at 126-129 (50%).	
129.00	155.43	26.43	Black graphitic argillite and some siltstone laminae; 2% pyrite.	
155.43	157.58	2.15	Pale green massive unite (altered dyke?).	
157.58	158.80	1.22	Silicified black graphitic argillite with 1.5% pyrite. EOH.	

Project: Manson Silver

Hole ID:	MS 17007
Logged By:	C.M. Rebagliati
Date:	Oct. 22, 2017

UTM NAD 83 Zone 10	
Easting	410,068
Northing	6,169,548
Elevation	975

Direction/Length	
Azimuth	0
Inclination	-50
Length	53.94 m

From (m)	To (m)	Interval (m)	Description	Sample
0.00	7.50	7.50	OB	
7.50	11.58	4.08	Pale green wacke interbedded with black argillite; disseminated 0.5% pyrite; fault at 7.5-8.25.	
11.58	14.32	2.74	Black graphitic argillite with 1% pyrite. White bull quartz and faulted rubble at 12-12.80.	
14.32	28.00	13.68	Grey massive unit with 20% Fe-carbonate porphyroblasts and some interbedded black argillite. Fe-carbonate alteration with 0.5% pyrite.	
28.00	37.30	9.30	Black graphitic argillite; from 32.60-33.70 laminae of grey wacke. 0.5% disseminated pyrite. 20% white bull quartz vein.	
37.30	48.10	10.80	Grey massive unit with 10-20% Fe-carbonate porphyroblasts and minor black argillite laminae; 0.75% disseminated pyrite.	
48.10	51.10	3.00	Black graphitic argillite with 0.5% disseminated pyrite.	
51.10	53.94	2.84	Pale grey sheared siltstone. EOH.	

Project: Manson Silver

Hole ID:	MS 17008
Logged By:	C.M. Rebagliati
Date:	Oct. 22, 2017

UTM NAD 83 Zone 10	
Easting	410,605
Northing	6,169,518
Elevation	925

Direction/Length	
Azimuth	0
Inclination	-50
Length	75.59 m

From (m)	To (m)	Interval (m)	Description	Sample
0.00	17.67	17.67	OB	
17.67	59.00	41.33	Light grey massive feldspathic sandstone or feldspar crystal tuff with interbeds of black argillite, 10-30 deg. TCA. 0.5% disseminated pyrite. Few quartz carbonate veins, mm scale.	
59.00	75.59	16.59	Light grey feldspar porphyry dyke, contact 15 deg. TCA. Trace pyrite. EOH.	

Project: Manson Silver

Hole ID:	MS 17009
Logged By:	C.M. Rebagliati
Date:	Oct. 23, 2017

UTM NAD 83 Zone 10	
Easting	410,606
Northing	6,169,519
Elevation	925

Direction/Length	
Azimuth	270
Inclination	-50
Length	81.38 m

From (m)	To (m)	Interval (m)	Description	Sample
0.00	8.83	8.83	OB	
8.83	26.00	17.17	Black graphitic argillite with 1% disseminated pyrite.	
26.00	28.59	2.59	Light grey chert-like silicified rock with 2% fracture filling pyrite.	
28.59	47.15	18.56	Black graphitic argillite; hard brecciated silicified interval at 42-44. Variable development of Fe-carbonate porphyroblasts; 1% disseminated pyrite. 40% fine-grained pyrite matrix to breccia at 31.05-31.57.	31.05-31.57m; sample # 977120
47.15	49.00	1.85	Black argillite with variable intense epidote-pyrite alteration; 5% disseminated pyrite. Few quartz-Fe-carbonate veins 1-5mm thick.	
49.00	71.90	22.90	Black argillite, variably graphitic to hard silicified (cherty?); variable Fe-carbonate porphyroblasts and 1% disseminated pyrite. Minor quartz-Fe-carbonate veinlets.	
71.90	79.68	7.78	Light grey felsic dyke (?); weak sericite alteration; 0.5% fine-grained disseminated pyrite.	
79.68	81.38	1.70	Black argillite/siltstone laminae. Silicified-cherty; 1% disseminated pyrite. EOH.	

APPENDIX 3
ASSAY CERTIFICATES



Date Submitted: 28-Aug-17
Invoice No.: A17-09233
Invoice Date: 19-Sep-17
Your Reference:

Unitd Mineral Service
1500-1040 West Georgia Street
Vancouver BC V6E4H1
Canada

ATTN: Eric Titley

CERTIFICATE OF ANALYSIS

9 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A3-Ag-Kamloops Au, Ag-Fire Assay Gravimetric (QOP Fire Assay Tbay)

Code 1F2-Assay-Kamloops Total Digestion ICP(TOTAL)

REPORT **A17-09233**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Note: We recommend getting high Pb or Zn results done with 8-Peroxide assay regardless of mineralogy as 4-Acid may not be completely total.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is stylized with loops and is positioned above a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
TELEPHONE +250 573-4484 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Kamloops@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A17-09233

Analyte Symbol	Au	Ag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni
Unit Symbol	g/tonne	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%
Lower Limit	0.03	3	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001
Method Code	FA- GRA	FA- GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
W-1	0.55	869	976.8	2.9	280	430	< 10	< 20	2.2	2190	< 10	70	0.462	4.8	20	< 10	0.7	20	0.8	0.079	< 0.001	< 0.1	< 0.001
W-2	< 0.03	402	443.5	5.2	80	700	< 10	< 20	5.1	1120	30	50	0.241	3.4	20	< 10	1.7	20	1.9	0.147	< 0.001	< 0.1	0.002
W-3	< 0.03	264	269.8	4.4	110	460	< 10	< 20	7.1	884	10	50	0.036	5.1	20	< 10	1.0	30	2.4	0.188	< 0.001	< 0.1	0.004
W-4	< 0.03	82	105.6	7.4	90	900	< 10	< 20	10.0	258	20	120	0.038	5.5	20	< 10	1.5	40	0.9	0.114	< 0.001	0.1	0.009
W-5	< 0.03	307	333.0	6.2	580	570	< 10	< 20	1.1	122	10	60	0.057	3.1	20	< 10	1.2	< 10	0.1	0.074	< 0.001	2.6	0.001
W-6	< 0.03	238	269.8	6.3	5090	900	< 10	< 20	1.5	203	20	110	0.074	3.5	30	< 10	1.7	20	0.4	0.107	< 0.001	1.0	0.004
W-7	4.63	2050	1859.4	2.5	1760	220	< 10	< 20	1.1	301	< 10	40	0.457	2.6	10	< 10	0.5	< 10	0.1	0.025	< 0.001	1.0	< 0.001
W-8	< 0.03	< 3	< 3.0	5.6	1180	920	< 10	< 20	4.9	< 3	10	70	0.004	3.8	10	< 10	1.6	< 10	0.3	0.056	< 0.001	0.8	0.004
W-9	< 0.03	< 3	< 3.0	6.3	1440	1160	< 10	< 20	5.3	< 3	20	80	0.005	4.5	20	< 10	2.4	20	0.4	0.059	< 0.001	< 0.1	0.005

Analyte Symbol	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
W-1	0.02	162000	14.7	150	< 40	60	< 20	0.1	< 50	< 100	< 20	< 50	10	20.2	< 50
W-2	0.05	66700	6.5	< 50	< 40	110	< 20	0.2	< 50	< 100	40	< 50	20	9.96	70
W-3	0.11	27100	4.6	60	< 40	140	90	0.4	< 50	< 100	50	< 50	30	7.44	90
W-4	0.19	17000	0.8	< 50	< 40	130	< 20	0.6	< 50	< 100	60	< 50	20	2.44	80
W-5	0.03	22200	< 0.1	120	< 40	60	< 20	0.2	< 50	< 100	50	< 50	10	0.696	70
W-6	0.05	21200	0.2	80	< 40	110	< 20	0.4	< 50	< 100	120	< 50	20	1.77	110
W-7	0.04	269000	3.3	1020	< 40	70	< 20	0.2	< 50	< 100	20	160	< 10	1.65	< 50
W-8	0.06	350	< 0.1	< 50	< 40	70	< 20	0.3	< 50	< 100	70	< 50	10	0.049	< 50
W-9	0.06	210	< 0.1	< 50	< 40	70	< 20	0.2	< 50	< 100	70	< 50	20	0.019	80

Analyte Symbol	Au	Ag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni
Unit Symbol	g/tonne	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%
Lower Limit	0.03	3	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001
Method Code	FA- GRA	FA- GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
MP-1b Meas			50.9		21100			800	2.5	650			3.25	8.3					< 0.1		0.033		
MP-1b Cert			47.0		23000.00			954.0000	2.47	527.0000			3.07	8.19					0.024		0.029		
OxQ75 Meas	49.0	156																					
OxQ75 Cert	50.03	153.9																					
SQ47 Meas	38.2	126																					
SQ47 Cert	39.88	122.3																					
SDC-1 1F2 Assay (%) Meas					< 30	630	< 10				20	60	0.003					40		0.084			0.003
SDC-1 1F2 Assay (%) Cert					0.220	630	3.00				18	64.0	0.0030					34.0		0.088			0.0038
SBC-1 1F2-assay Kamloops (%) Meas					< 30	780	< 10	< 20		< 3	20	100	0.003		20			160		0.110	< 0.001		0.008
SBC-1 1F2-assay Kamloops (%) Cert					25.7	788	3.20	0.700		0.400	22.7	109	0.0031		27.0			163		0.116	0.00024		0.00828
DNC-1a 1F2-assay Kamloops (%) Meas						100					60	230	0.010					< 10		0.120			0.026
DNC-1a 1F2-assay Kamloops (%) Cert						118					57.0	270	0.01					5.20		0.116			0.0247
GXR-6 1F2-assay Kamloops (%) Meas			< 3.0	15.8	310	1560	< 10	< 20	0.2	< 3	10	70	0.008	5.5	40	< 10	1.7	40	0.7	0.100	< 0.001	0.1	0.002
GXR-6 1F2-assay Kamloops (%) Cert			1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.00024	0.104	0.0027
GXR-1 1F2-assay Kamloops (%) Meas			31.0	6.4	440	1300	< 10	1380	0.9	< 3	< 10	30	0.112	23.7	20	< 10	< 0.1	10	0.4	0.090	0.002	< 0.1	0.004
GXR-1 1F2-assay Kamloops (%) Cert			31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	0.111	23.6	13.8	3.90	0.0500	8.20	0.217	0.0852	0.0018	0.0520	0.0041
GXR-4 1F2-assay Kamloops (%) Meas			< 3.0	6.6	100	1530	< 10	< 20	1.0	< 3	10	60	0.652	3.0	20	< 10	4.2	< 10	1.7	0.015	0.035	0.5	0.004
GXR-4 1F2-assay Kamloops (%) Cert			4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	0.652	3.09	20.0	0.110	4.01	11.1	1.66		0.031	0.564	0.0042
OREAS 14P 1F2-assay Kamloops (%) Meas											730		1.02	35.4									2.02

Analyte Symbol	Au	Ag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni
Unit Symbol	g/tonne	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%
Lower Limit	0.03	3	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001
Method Code	FA- GRA	FA- GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 14P 1F2-assay Kamloops (%) Cert											750		0.997	37.2									2.10
GBW 07238 1F2-assay Kamloops (%) Meas					< 30								0.010		20					1.08	1.57		0.004
GBW 07238 1F2-assay Kamloops (%) Cert					1.60								0.00936		25.0					1.08	1.51		0.00178
GBW 07239 1F2-assay Kamloops (%) Meas					60			< 20			20		0.006		10					1.15	0.117		0.003
GBW 07239 1F2-assay Kamloops (%) Cert					1.0			1.0			13.5		0.00486		23.1					1.15	0.110		0.00209
SdAR-M2 (U.S.G.S.) Meas						990	< 10	< 20		6	10	50	0.025		30	< 10		20			0.001		0.004
SdAR-M2 (U.S.G.S.) Cert						990	6.6	1.05		5.1	12.4	49.6	0.0236		17.6	1.44		20			0.001		0.005
CCU-1e Meas			213.7	0.1	830				0.1	71	320			30.9		< 10			0.7	0.014			
CCU-1e Cert			205	0.139	1010				0.129	74.2	301			30.7		10.4			0.706	0.00960			
W-1 Orig	0.83	881	960.8	2.9	270	420	< 10	< 20	2.2	2150	< 10	30	0.454	4.8	10	< 10	0.7	20	0.8	0.076	< 0.001	< 0.1	< 0.001
W-1 Dup	0.26	857	992.8	2.8	290	430	< 10	< 20	2.2	2220	10	110	0.470	4.9	20	< 10	0.7	20	0.8	0.082	< 0.001	< 0.1	< 0.001
W-5 Orig	< 0.03	308																					
W-5 Dup	< 0.03	306																					
W-9 Orig	< 0.03	< 3																					
W-9 Dup	< 0.03	< 3																					
Method Blank	< 0.03	< 3																					

Analyte Symbol	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
MP-1b Meas		18700	13.6									780		17.2	
MP-1b Cert		20900	13.79									1100.000		16.7	
OxQ75 Meas															
OxQ75 Cert															
SQ47 Meas															
SQ47 Cert															
SDC-1 1F2 Assay (%) Meas		< 30		< 50	< 40	170					30	< 50		0.009	< 50
SDC-1 1F2 Assay (%) Cert		25.0		0.540	17.0	180					102	0.80		0.0103	290
SBC-1 1F2-assay Kamloops (%) Meas		50		< 50	< 40	170			< 50	< 100	220	< 50	40	0.018	130
SBC-1 1F2-assay Kamloops (%) Cert		35.0		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134
DNC-1a 1F2-assay Kamloops (%) Meas				< 50	< 40	130					150		20	0.006	< 50
DNC-1a 1F2-assay Kamloops (%) Cert				0.960	31.0	144					148.0000		18.0	0.007	38.0
GXR-6 1F2-assay Kamloops (%) Meas	0.04	110	< 0.1	< 50	< 40	50	< 20		< 50	< 100	120	< 50	10	0.011	90
GXR-6 1F2-assay Kamloops (%) Cert	0.0350	101	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110
GXR-1 1F2-assay Kamloops (%) Meas	0.06	790	0.2	< 50	< 40	280	< 20		< 50	< 100	80	200	30	0.074	< 50
GXR-1 1F2-assay Kamloops (%) Cert	0.0650	730	0.257	122	1.58	275	13.0		0.390	34.9	80.0	164	32.0	0.076	38.0
GXR-4 1F2-assay Kamloops (%) Meas	0.13	40	1.8	< 50	< 40	220	20		< 50	< 100	80	< 50	20	0.006	< 50
GXR-4 1F2-assay Kamloops (%) Cert	0.120	52.0	1.77	4.80	7.70	221	0.970		3.20	6.20	87.0	30.8	14.0	0.0073	186
OREAS 14P 1F2-assay Kamloops (%) Meas															
OREAS 14P															

Analyte Symbol	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1F2-assay Kamloops (%) Cert															
GBW 07238 1F2-assay Kamloops (%) Meas		< 30										2770	10	0.006	
GBW 07238 1F2-assay Kamloops (%) Cert		18.7										3600	11.4	0.00655	
GBW 07239 1F2-assay Kamloops (%) Meas		< 30										1190	40	0.013	
GBW 07239 1F2-assay Kamloops (%) Cert		26.1										1000.00	34.2	0.012	
SdAR-M2 (U.S.G.S.) Meas		860			< 40	140				< 100	20	< 50	30	0.079	130
SdAR-M2 (U.S.G.S.) Cert		808			4.1	144				2.53	25.2	2.8	32.7	0.076	259
CCU-1e Meas		7590	34.2	60			70		< 50					2.99	
CCU-1e Cert		7030	35.3	104			61.8		2.69					3.02	
W-1 Orig	0.02	160000	14.7	200	< 40	60	< 20	0.1	< 50	< 100	< 20	< 50	10	19.9	< 50
W-1 Dup	0.02	164000	14.7	100	< 40	60	60	0.1	< 50	< 100	< 20	80	10	20.5	< 50
W-5 Orig															
W-5 Dup															
W-9 Orig															
W-9 Dup															
Method Blank															



Date Submitted: 24-Oct-17
Invoice No.: A17-11933 (i)
Invoice Date: 17-Nov-17
Your Reference:

**United Mineral Service
1500-1040 West Georgia Street
Vancouver BC V6E4H1
Canada**

ATTN: Eric Titley

CERTIFICATE OF ANALYSIS

22 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A3-Ag-Kamloops Au, Ag-Fire Assay Gravimetric (QOP Fire Assay Tbay)

Code 8-Peroxide ICP-Kamloops Sodium Peroxide Fusion ICP

REPORT **A17-11933 (i)**

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Notes:

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with a large, stylized 'E' and 'S'.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
TELEPHONE +250 573-4484 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Kamloops@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Al	As	Be	Bi	Ca	Co	Cr	Cs	Cu	Fe	K	Ga	Ge	In	Li	Mg	Mn	Mo	Nb	Ni	Pb	Re	S
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Lower Limit	0.01	0.001	0.001	0.001	0.01	0.001	0.01	0.001	0.001	0.001	0.05	0.1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.01
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2
977100	5.02	0.092	< 0.001	< 0.001	2.49	0.002	0.02	< 0.001	0.006	3.58	2.1	0.001	< 0.001	< 0.001	0.002	0.54	0.077	< 0.001	0.002	0.007	0.015	< 0.001	0.01
977101	5.85	0.267	< 0.001	< 0.001	2.76	0.002	0.02	< 0.001	0.007	4.47	2.4	0.002	< 0.001	< 0.001	0.002	0.43	0.091	< 0.001	0.002	0.008	0.017	< 0.001	0.02
977102	5.18	0.101	< 0.001	< 0.001	5.13	0.001	0.01	< 0.001	0.003	3.52	2.3	0.001	< 0.001	< 0.001	0.001	0.48	0.075	< 0.001	0.002	0.005	0.004	< 0.001	0.01
977103	8.83	0.157	< 0.001	< 0.001	1.51	0.002	0.01	< 0.001	0.005	4.10	3.6	0.002	< 0.001	< 0.001	0.002	0.45	0.033	< 0.001	0.002	0.007	0.005	< 0.001	0.03
977104	3.42	0.080	< 0.001	< 0.001	4.27	0.001	0.01	< 0.001	0.005	2.79	1.4	0.001	< 0.001	< 0.001	0.001	0.38	0.060	< 0.001	0.001	0.005	0.009	< 0.001	0.02
977105	7.39	0.119	< 0.001	< 0.001	3.91	0.004	0.02	< 0.001	0.012	6.08	3.0	0.002	< 0.001	< 0.001	0.003	0.60	0.071	< 0.001	0.004	0.013	1.32	< 0.001	0.19
977106	7.97	0.522	< 0.001	< 0.001	0.80	0.002	< 0.01	< 0.001	0.005	4.96	3.5	0.002	< 0.001	< 0.001	0.003	0.36	0.052	< 0.001	0.001	0.005	0.008	< 0.001	0.04
977107	7.53	0.021	< 0.001	< 0.001	7.94	0.003	< 0.01	< 0.001	0.008	5.91	1.7	0.002	< 0.001	< 0.001	< 0.001	2.52	0.088	< 0.001	0.004	0.014	0.091	< 0.001	0.75
977108	2.49	0.003	< 0.001	< 0.001	7.94	< 0.001	< 0.01	< 0.001	0.145	5.46	0.3	< 0.001	< 0.001	0.001	< 0.001	2.56	0.281	< 0.001	0.001	0.002	8.72	< 0.001	11.6
977109	6.62	< 0.001	< 0.001	< 0.001	0.42	< 0.001	< 0.01	< 0.001	< 0.001	1.03	4.3	0.002	< 0.001	< 0.001	0.002	0.11	0.025	< 0.001	0.004	< 0.001	0.002	< 0.001	0.02
977110	5.98	0.011	< 0.001	< 0.001	12.5	0.003	< 0.01	< 0.001	0.004	5.97	1.5	0.002	< 0.001	< 0.001	0.002	3.05	0.159	< 0.001	0.003	0.008	0.493	< 0.001	0.79
977111	4.95	0.514	< 0.001	< 0.001	7.84	0.005	0.07	< 0.001	0.003	6.48	1.9	0.001	< 0.001	< 0.001	< 0.001	5.21	0.105	< 0.001	0.002	0.029	< 0.001	< 0.001	1.47
977112	4.74	0.002	< 0.001	< 0.001	17.8	< 0.001	< 0.01	< 0.001	0.002	2.63	2.0	0.001	< 0.001	< 0.001	< 0.001	0.94	0.087	< 0.001	0.002	0.002	0.030	< 0.001	0.06
977113	0.97	0.001	< 0.001	< 0.001	6.74	< 0.001	< 0.01	< 0.001	0.009	6.66	0.1	< 0.001	< 0.001	0.002	< 0.001	2.15	0.250	< 0.001	< 0.001	< 0.001	12.7	< 0.001	15.1
977114	6.67	< 0.001	< 0.001	< 0.001	0.45	< 0.001	< 0.01	< 0.001	< 0.001	1.01	4.3	0.002	< 0.001	< 0.001	0.001	0.10	0.025	< 0.001	0.003	< 0.001	0.003	< 0.001	0.03
977115	9.02	0.004	< 0.001	< 0.001	4.80	0.002	< 0.01	< 0.001	0.004	4.08	4.1	0.002	< 0.001	< 0.001	0.001	1.44	0.052	< 0.001	0.003	0.003	0.092	< 0.001	0.30
977116	6.03	0.016	< 0.001	< 0.001	8.52	0.003	0.01	< 0.001	0.002	6.32	2.6	0.002	< 0.001	< 0.001	< 0.001	2.33	0.117	< 0.001	0.004	0.006	0.009	< 0.001	0.29
977117	2.35	< 0.001	< 0.001	< 0.001	5.41	< 0.001	< 0.01	< 0.001	0.074	5.64	0.6	< 0.001	< 0.001	0.002	< 0.001	1.63	0.188	< 0.001	< 0.001	< 0.001	4.31	< 0.001	9.82
977118	6.69	< 0.001	< 0.001	< 0.001	0.49	< 0.001	< 0.01	< 0.001	< 0.001	1.03	4.4	0.002	< 0.001	< 0.001	0.001	0.11	0.027	< 0.001	0.003	< 0.001	0.001	< 0.001	0.03
977119	8.85	0.006	< 0.001	< 0.001	3.56	0.002	< 0.01	< 0.001	0.002	3.92	4.1	0.002	< 0.001	< 0.001	0.002	1.21	0.045	< 0.001	0.002	0.003	0.006	< 0.001	0.28
977120	0.86	0.015	< 0.001	< 0.001	11.3	< 0.001	< 0.01	< 0.001	0.003	16.0	0.3	< 0.001	< 0.001	< 0.001	< 0.001	5.52	0.114	0.001	< 0.001	0.004	0.005	< 0.001	15.9
977121	5.55	0.024	< 0.001	< 0.001	1.45	0.001	< 0.01	< 0.001	0.550	5.92	1.1	0.001	< 0.001	< 0.001	0.002	1.09	0.175	0.002	< 0.001	0.002	0.935	< 0.001	2.25

Analyte Symbol	Se	Sb	Si	Sn	Ta	Te	Th	Ti	Tl	U	W	Zn	Au	Ag
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	g/tonne	g/tonne
Lower Limit	0.001	0.002	0.01	0.001	0.001	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.03	3
Method Code	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FA-GRA	FA-GRA
977100	< 0.001	< 0.002	34.0	< 0.001	< 0.001	< 0.001	< 0.001	0.48	< 0.001	< 0.001	< 0.001	0.028	< 0.03	3
977101	< 0.001	< 0.002	32.7	< 0.001	< 0.001	< 0.001	< 0.001	0.62	< 0.001	< 0.001	< 0.001	0.025	< 0.03	5
977102	< 0.001	< 0.002	29.9	< 0.001	< 0.001	< 0.001	< 0.001	0.45	< 0.001	< 0.001	< 0.001	0.016	< 0.03	< 3
977103	< 0.001	< 0.002	30.8	< 0.001	< 0.001	< 0.001	0.002	0.52	< 0.001	< 0.001	< 0.001	0.023	< 0.03	4
977104	< 0.001	< 0.002	35.7	< 0.001	< 0.001	< 0.001	< 0.001	0.30	< 0.001	< 0.001	< 0.001	0.018	< 0.03	4
977105	< 0.001	0.008	26.7	< 0.001	< 0.001	< 0.001	< 0.001	1.12	< 0.001	< 0.001	< 0.001	0.172	< 0.03	95
977106	< 0.001	< 0.002	30.9	0.001	< 0.001	< 0.001	0.002	0.40	< 0.001	< 0.001	< 0.001	0.035	0.30	5
977107	< 0.001	< 0.002	19.3	< 0.001	< 0.001	< 0.001	< 0.001	1.16	< 0.001	< 0.001	< 0.001	0.028	< 0.03	9
977108	< 0.001	0.062	9.27	0.005	< 0.001	< 0.001	< 0.001	0.28	< 0.001	< 0.001	< 0.001	16.3	0.59	815
977109	< 0.001	< 0.002	36.8	< 0.001	< 0.001	< 0.001	0.003	0.14	< 0.001	< 0.001	< 0.001	0.004	< 0.03	< 3
977110	< 0.001	< 0.002	13.5	< 0.001	< 0.001	< 0.001	< 0.001	0.85	< 0.001	< 0.001	< 0.001	0.115	< 0.03	22
977111	< 0.001	0.003	17.4	< 0.001	< 0.001	< 0.001	< 0.001	0.53	< 0.001	< 0.001	< 0.001	0.015	0.58	6
977112	< 0.001	< 0.002	16.7	< 0.001	< 0.001	< 0.001	0.001	0.27	< 0.001	< 0.001	< 0.001	0.056	< 0.03	6
977113	< 0.001	0.055	7.02	0.002	< 0.001	< 0.001	< 0.001	0.04	< 0.001	< 0.001	< 0.001	20.4	0.99	651
977114	< 0.001	< 0.002	34.0	< 0.001	< 0.001	< 0.001	0.003	0.14	< 0.001	< 0.001	< 0.001	0.005	< 0.03	3
977115	< 0.001	< 0.002	24.7	< 0.001	< 0.001	< 0.001	0.002	0.39	< 0.001	< 0.001	< 0.001	0.101	< 0.03	8
977116	< 0.001	< 0.002	19.3	< 0.001	< 0.001	< 0.001	< 0.001	0.94	< 0.001	< 0.001	< 0.001	0.010	< 0.03	< 3
977117	< 0.001	0.015	16.9	0.002	< 0.001	< 0.001	< 0.001	0.12	< 0.001	< 0.001	< 0.001	15.1	< 0.03	217
977118	< 0.001	< 0.002	35.1	< 0.001	< 0.001	< 0.001	0.003	0.14	< 0.001	< 0.001	< 0.001	0.004	< 0.03	11
977119	< 0.001	< 0.002	26.9	< 0.001	< 0.001	< 0.001	0.002	0.37	< 0.001	< 0.001	< 0.001	0.017	< 0.03	4
977120	< 0.001	< 0.002	8.02	< 0.001	< 0.001	< 0.001	< 0.001	0.04	< 0.001	< 0.001	< 0.001	0.009	< 0.03	< 3
977121	< 0.001	0.043	32.3	< 0.001	< 0.001	< 0.001	< 0.001	0.26	< 0.001	< 0.001	< 0.001	0.539	< 0.03	133

Analyte Symbol	Al	As	Be	Bi	Ca	Co	Cr	Cs	Cu	Fe	K	Ga	Ge	In	Li	Mg	Mn	Mo	Nb	Ni	Pb	Re	S
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Lower Limit	0.01	0.001	0.001	0.001	0.01	0.001	0.01	0.001	0.001	0.05	0.1	0.001	0.001	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.001	0.001	0.01
Method Code	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2
GXR-1 Meas	3.81				0.91					25.9	< 0.1					0.22							0.26
GXR-1 Cert	3.52				0.960					23.6	0.050					0.217							0.257
PTM-1a Meas																							22.6
PTM-1a Cert																							22.4
NIST 696 Meas	28.7																						
NIST 696 Cert	28.9																						
Oreas 74a (Fusion) Meas										13.7													7.41
Oreas 74a (Fusion) Cert										13.7													7.25
OREAS 134b (Fusion) Meas										12.1													20.1
OREAS 134b (Fusion) Cert										12.69													20.74
MP-1b Meas		2.08		0.091	2.58				2.67	8.09				0.057		0.03		< 0.001				1.94	13.5
MP-1b Cert		2.30		0.0954	2.47				3.07	8.19				0.0565		0.024		0.03				2.09	13.79
OREAS 101b (Fusion) Meas										10.6	2.3					1.24							
OREAS 101b (Fusion) Cert										10.8	2.42					1.23							
OREAS 13b (fusion) Meas	8.47				5.72					8.45	2.2					2.99							1.18
OREAS 13b (fusion) Cert	8.41				5.57					8.41	2.30					3.01							1.19
NCS DC86303 Meas								0.033							0.221								
NCS DC86303 Cert								0.0350							0.210								
OxQ75 Meas																							
OxQ75 Cert																							
CPB-2 Meas	0.07									6.75						0.07							
CPB-2 Cert	0.074									7.065						0.0683							
CZN-4 Meas	0.08																						33.5
CZN-4 Cert	0.0715																						33.07
SQ47 Meas																							
SQ47 Cert																							
OREAS 922 (Peroxide Fusion) Meas				< 0.001		0.002	< 0.01	< 0.001	0.209			0.002		< 0.001	0.004		0.087		0.002	0.004	0.006		
OREAS 922 (Peroxide Fusion) Cert				0.001		0.002	0.009	0.0008	0.222			0.002		0.00003	0.003		0.088		0.002	0.004	0.006		
OREAS 621 (Peroxide Fusion)	6.59	0.006	< 0.001	< 0.001	2.08	0.003	< 0.01	< 0.001	0.316	3.78	2.2	0.002		< 0.001		0.52	0.054	0.002	0.001		1.22		4.51

Analyte Symbol	Al	As	Be	Bi	Ca	Co	Cr	Cs	Cu	Fe	K	Ga	Ge	In	Li	Mg	Mn	Mo	Nb	Ni	Pb	Re	S
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Lower Limit	0.01	0.001	0.001	0.001	0.01	0.001	0.01	0.001	0.001	0.05	0.1	0.001	0.001	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.001	0.001	0.01
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2
Meas																							
OREAS 621 (Peroxide Fusion) Cert	6.63	0.009	0.0002	0.0004	2.00	0.003	0.005	0.0004	0.368	3.71	2.23	0.003		0.0002		0.516	0.055	0.001	0.001		1.33		4.51
977105 Orig	7.39	0.118	< 0.001	< 0.001	3.91	0.004	0.02	< 0.001	0.012	6.07	3.0	0.002	< 0.001	< 0.001	0.003	0.59	0.071	< 0.001	0.004	0.012	1.32	< 0.001	0.19
977105 Dup	7.38	0.119	< 0.001	< 0.001	3.91	0.004	0.02	< 0.001	0.012	6.09	3.0	0.002	< 0.001	< 0.001	0.003	0.60	0.071	< 0.001	0.004	0.013	1.31	< 0.001	0.19
977107 Orig																							
977107 Dup																							
977113 Orig	0.99	0.001	< 0.001	< 0.001	6.92	< 0.001	< 0.01	< 0.001	0.009	6.82	0.1	< 0.001	< 0.001	0.002	< 0.001	2.21	0.251	< 0.001	< 0.001	< 0.001	12.8	< 0.001	15.4
977113 Dup	0.94	0.001	< 0.001	< 0.001	6.56	< 0.001	< 0.01	< 0.001	0.009	6.50	0.1	< 0.001	< 0.001	0.002	< 0.001	2.09	0.248	< 0.001	< 0.001	< 0.001	12.5	< 0.001	14.7
Method Blank																							
Method Blank																							

Analyte Symbol	Se	Sb	Si	Sn	Ta	Te	Th	Ti	Tl	U	W	Zn	Au	Ag
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	g/tonne	g/tonne
Lower Limit	0.001	0.002	0.01	0.001	0.001	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.03	3
Method Code	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FA-GR	FA-GR
GXR-1 Meas								0.03						
GXR-1 Cert								0.036						
PTM-1a Meas														
PTM-1a Cert														
NIST 696 Meas														
NIST 696 Cert														
Oreas 74a (Fusion) Meas			15.8											
Oreas 74a (Fusion) Cert			15.14											
OREAS 134b (Fusion) Meas														
OREAS 134b (Fusion) Cert														
MP-1b Meas			16.8	1.61							0.112	16.6		
MP-1b Cert			16.79	1.61							0.110	16.7		
OREAS 101b (Fusion) Meas								0.39						
OREAS 101b (Fusion) Cert								0.386						
OREAS 13b (fusion) Meas			23.8					0.72						
OREAS 13b (fusion) Cert			22.9					0.711						
NCS DC86303 Meas											< 0.001			
NCS DC86303 Cert											0.0009			
OxQ75 Meas													51.2	170
OxQ75 Cert													50.03	153.9
CPB-2 Meas														
CPB-2 Cert														
CZN-4 Meas			0.30											
CZN-4 Cert			0.295											
SQ47 Meas													39.9	123
SQ47 Cert													39.88	122.3
OREAS 922 (Peroxide Fusion) Meas				0.001	< 0.001		0.002		< 0.001	< 0.001		0.030		
OREAS 922 (Peroxide Fusion) Cert				0.001	0.0001		0.002		0.00009	0.0004		0.028		
OREAS 621 (Peroxide Fusion)		0.013	29.2				< 0.001	0.19	< 0.001	< 0.001	< 0.001	5.13		

Analyte Symbol	Se	Sb	Si	Sn	Ta	Te	Th	Ti	Tl	U	W	Zn	Au	Ag
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	g/tonne	g/tonne
Lower Limit	0.001	0.002	0.01	0.001	0.001	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.03	3
Method Code	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FA-GRA	FA-GRA
Meas														
OREAS 621 (Peroxide Fusion) Cert		0.0146	28.1				0.0009	0.181	0.0002	0.0003	0.0003	5.22		
977105 Orig	< 0.001	0.008	26.8	< 0.001	< 0.001	< 0.001	< 0.001	1.10	< 0.001	< 0.001	< 0.001	0.171		
977105 Dup	< 0.001	0.008	26.6	< 0.001	< 0.001	< 0.001	< 0.001	1.13	< 0.001	< 0.001	< 0.001	0.173		
977107 Orig													< 0.03	9
977107 Dup													< 0.03	9
977113 Orig	< 0.001	0.055	7.23	0.002	< 0.001	< 0.001	< 0.001	0.04	< 0.001	< 0.001	< 0.001	20.5		
977113 Dup	< 0.001	0.054	6.81	0.002	< 0.001	< 0.001	< 0.001	0.04	< 0.001	< 0.001	< 0.001	20.3		
Method Blank													< 0.03	< 3
Method Blank													< 0.03	< 3



MS Analytical

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MS Analytical
Unit 1, 20120 102nd Avenue
Langley, BC V1M 4B4
Phone: +1-604-888-0875

To: **United Minerals Services**
15th Floor, 1040 W Georgia St.
Vancouver, B.C.
V6E 4H1

CERTIFICATE OF ANALYSIS: YVR1711050

Project Name: Manson
Job Received Date: 12-Dec-2017
Job Report Date: 12-Jan-2018
Number of Samples: 8
Report Version: Final

COMMENTS:

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

SAMPLE PREPARATION	
METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

ANALYTICAL METHODS	
METHOD CODE	DESCRIPTION
ICP-240	Multi-Element, 0.2g, 4-Acid, ICP-AES, Ore Grade

Signature:
Yvette Hsi, BSc.
Laboratory Manager
MS Analytical



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Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	ICP-240 Ag ppm	ICP-240 Al %	ICP-240 As %	ICP-240 Ba %	ICP-240 Be %	ICP-240 Bi %	ICP-240 Ca %	ICP-240 Cd %	ICP-240 Co %
		0.01	LOR	1	0.05	0.005	0.001	0.001	0.005	0.05	0.001	0.001
Granite Blank	QC-P-BK	--		<1	7.81	<0.005	0.086	<0.001	<0.005	3.39	<0.001	0.002
Granite Blank	QC-P-BK	--		<1	7.77	<0.005	0.085	<0.001	<0.005	3.39	<0.001	0.002
8	Core	0.60		<1	2.87	<0.005	0.030	<0.001	<0.005	2.70	<0.001	<0.001
9a	Core	0.58		2	5.18	0.036	0.094	<0.001	<0.005	12.34	<0.001	0.005
9b	Core	0.75		<1	6.18	0.008	0.021	<0.001	<0.005	3.66	<0.001	0.005
10	Core	0.69		<1	8.95	0.006	0.310	<0.001	<0.005	3.15	<0.001	0.003
10PD	QC-PD	--		<1	8.93	<0.005	0.308	<0.001	<0.005	3.19	<0.001	0.003
11	Core	0.45		<1	6.84	0.006	0.196	<0.001	<0.005	5.82	<0.001	0.002
12	Core	0.59		2	4.76	0.024	0.083	<0.001	<0.005	10.52	<0.001	0.003
13	Core	0.64		<1	5.03	<0.005	0.018	<0.001	<0.005	3.23	<0.001	0.004
14	Core	0.21		2	3.19	<0.005	0.122	<0.001	<0.005	8.86	<0.001	0.003
DUP 13				1	4.98	0.005	0.018	<0.001	<0.005	3.21	<0.001	0.004
STD BLANK				<1	<0.05	<0.005	<0.001	<0.001	<0.005	<0.05	<0.001	<0.001
STD MP-1b				49	1.49	2.322	<0.001	<0.001	0.102	2.58	0.055	<0.001

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Sample ID	ICP-240 Cr %	ICP-240 Cu %	ICP-240 Fe %	ICP-240 K %	ICP-240 La %	ICP-240 Mg %	ICP-240 Mn %	ICP-240 Mo %	ICP-240 Na %	ICP-240 Ni %	ICP-240 P %	ICP-240 Pb %
Granite Blank	0.013	0.006	3.47	1.5	<0.005	1.36	0.07	<0.001	3.40	0.001	0.05	<0.01
Granite Blank	0.011	0.002	3.35	1.5	<0.005	1.33	0.07	<0.001	3.39	0.001	0.06	<0.01
8	0.015	0.001	1.81	0.9	<0.005	0.92	0.10	<0.001	1.09	<0.001	0.02	<0.01
9a	0.019	0.003	6.97	1.6	<0.005	5.67	0.15	<0.001	1.30	0.020	0.08	<0.01
9b	0.004	0.015	10.32	0.7	<0.005	3.27	0.15	<0.001	2.34	0.003	0.14	<0.01
10	0.004	0.024	5.57	3.7	<0.005	1.80	0.07	<0.001	2.37	0.002	0.13	<0.01
10PD	0.004	0.025	5.55	3.6	<0.005	1.82	0.07	<0.001	2.40	0.001	0.13	<0.01
11	<0.001	0.018	6.29	2.5	<0.005	2.24	0.12	<0.001	0.79	<0.001	0.11	<0.01
12	0.014	0.002	6.22	1.2	<0.005	5.27	0.16	<0.001	1.95	0.013	0.11	<0.01
13	0.002	0.007	8.99	0.5	<0.005	2.98	0.13	<0.001	1.92	0.002	0.10	<0.01
14	<0.001	0.058	12.42	1.4	<0.005	4.23	0.20	<0.001	0.56	0.002	0.06	<0.01
DUP 13	0.002	0.007	8.91	0.5	<0.005	2.96	0.13	<0.001	1.90	0.001	0.11	<0.01
STD BLANK	<0.001	<0.001	<0.05	<0.1	<0.005	<0.05	<0.01	<0.001	<0.05	<0.001	<0.01	<0.01
STD MP-1b	<0.001	3.118	8.31	0.2	<0.005	<0.05	0.05	0.028	0.09	<0.001	0.03	2.17

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	ICP-240 S %	ICP-240 Sb %	ICP-240 Sr %	ICP-240 Ti %	ICP-240 Tl %	ICP-240 V %	ICP-240 W %	ICP-240 Zn %
Sample ID	0.05	0.005	0.01	0.05	0.005	0.001	0.01	0.01
Granite Blank	0.07	<0.005	0.05	0.31	<0.005	0.010	<0.01	<0.01
Granite Blank	0.06	<0.005	0.05	0.31	<0.005	0.010	<0.01	<0.01
8	<0.05	<0.005	0.02	<0.05	<0.005	0.002	<0.01	<0.01
9a	0.50	<0.005	0.07	0.23	<0.005	0.012	<0.01	<0.01
9b	0.89	<0.005	0.03	1.24	<0.005	0.034	<0.01	0.01
10	0.23	<0.005	0.02	0.63	<0.005	0.032	<0.01	0.01
10PD	0.22	<0.005	0.02	0.64	<0.005	0.031	<0.01	0.01
11	1.51	<0.005	0.03	0.55	<0.005	0.029	<0.01	0.01
12	0.28	<0.005	0.06	0.36	<0.005	0.011	<0.01	<0.01
13	0.29	<0.005	0.03	0.88	<0.005	0.027	<0.01	0.01
14	5.61	<0.005	0.03	0.23	<0.005	0.011	<0.01	<0.01
DUP 13	0.28	<0.005	0.03	0.82	<0.005	0.028	<0.01	0.01
STD BLANK	<0.05	<0.005	<0.01	<0.05	<0.005	<0.001	<0.01	<0.01
STD MP-1b	>10	<0.005	<0.01	<0.05	<0.005	<0.001	0.10	16.55

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