

BC Geological Survey  
Assessment Report  
38614



**ASSESSMENT REPORT TITLE PAGE AND SUMMARY**

**TITLE OF REPORT: REPORT ON PROSPECTING AND ROCK  
GEOCHEMISTRY  
MEACHEN BEND PROPERTY**

**TOTAL COST: \$ 4591.44**

AUTHOR(S): S Kennedy  
SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):  
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 5751122

YEAR OF WORK: 2019

PROPERTY NAME: Meachen Bend

CLAIM NAME(S) (on which work was done):

1,051,787 1,064,986 1,062,342

COMMODITIES SOUGHT: Pb-Zn-Ag-Cu

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Nelson  
NTS / BCGS: 82F059

LATITUDE: \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ "  
LONGITUDE: \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " (at centre of work)

UTM Zone: 11

EASTING: 545580

NORTHING: 5489710

OWNER(S): D. Lavoie, F. Cook

MAILING ADDRESS: 2290 DeWolfe Ave, Kimberley BC, V1A 1P5

OPERATOR(S) [who paid for the work]: Kootenay Silver Inc

MAILING ADDRESS: Suite 1650 - 1075 West Georgia Street.  
Vancouver, British Columbia  
Canada V6E 3C9

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**) Base metal fracture mineralization related to northwest structures in Middle Aldridge Fm

**REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:**

- Magrum, M. M. and Crowe, G. G. 1984. Geological report on the Whitefish and Goodhope claims, BC Geological Survey Branch Assessment Report 12825, 24pp.

- McCartney, I. D. 1993. Geological and geochemical report of the Mea 1, 2, 3, 4, claims, BC Geological Survey Branch Assessment Report 23049, 14pp.
- Ransom, P. W. 1997. Assessment report: Tow property, BC Geological Survey Branch Assessment Report 25177, 30pp
- Kennedy, S. 2007. Rock Geochemistry report, Whopper claims, Alisa Lake area, BC Geological Survey Branch Assessment Report 29315, 10pp
- Cook, F. A. 2017. Integration of Geophysical and Geological Data in the Meachen Creek area: Meachen Bend (MB 01-16) Property, BC Geological Survey Branch Assessment Report 36666, 36 pp.
- Cook, F. A. 2018. Acquisition, Processing and Inversion of a Magnetotelluric Profile Across the Meachen Bend (MB 01-16, MB 02-17) Property, BC Geological Survey Branch Assessment Report 37566, 27 pp.

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			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil			
Silt			
Rock	14 samples	1,051,787 1,064,986 1,062,342	\$420
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)	1:5000 3x3 km	1,051,787 1,064,986 1,062,342	\$3135

PREPATORY / PHYSICAL

Line/grid (km)		
Topo/Photogrammetric (scale, area)		
Legal Surveys (scale, area)		
Road, local access (km)/trail		
Trench (number/metres)		
Underground development (metres)		
Other	Report	\$800
	<b>TOTAL COST</b>	\$4355.00

REPORT ON PROSPECTING AND ROCK GEOCHEMISTRY  
MEACHEN BEND PROPERTY

MEACHEN CREEK AREA  
SOUTHEAST BC

MAPSHEET 082F059

NELSON MINING DIVISION

UTM NAD 83 ZONE 11  
545580/5489710

REPORT WRITTEN BY S. KENNEDY  
NOVEMBER, 2019

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## SUMMARY

Prospecting and rock geochemistry were conducted on portions of the MB property during the field season of 2019. The area is prospective for base and precious metal SEDEX and vein deposits. The area is transected by numerous NNW trending structures which show evidence of syn-depositional and late activity. These faults appear to have localized base and precious metal mineralization.

## LOCATION AND ACCESS

The property is located approximately 30 km southwest of the City of Kimberley, BC in the Meachen Creek drainage centered on White Boar Creek and Fiddler Creek.

Access is provided by driving the St. Mary Lake road southwest of Kimberley and turning south immediately east of the lake on to the St Mary River FSR and proceeding from there up the Hellroaring Creek FSR for 1 km before turning onto the Meachen Creek FSR and proceeding up the valley to the property.

## PHYSIOGRAPHY

The property covers mountainous terrain that ranges from 1280 m to 2240 m in elevations. Slopes are generally steep and cliffy and covered by standing and burnt timber to an elevation of near 2000 m. Avalanche paths are common.

## PROPERTY

The property consists of five mineral claims covering approximately 1700 hectares.

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Submission Fee
1041043	MB 01-16	2016/JAN/06	2027/JAN/06	2027/JAN/06	0	83.83	\$ 0.00	\$ 0.00
1051787	MB 02-17	2017/MAY/03	2023/SEP/21	2023/SEP/21	0	670.60	\$ 0.00	\$ 0.00
1055800	MB 03-17	2017/OCT/26	2020/SEP/22	2020/Dec/15	84	293.38	\$ 538.15	\$ 0.00
1062342	MB 04-18	2018/AUG/13	2019/AUG/13	2020/Dec/15	490	461.17	\$ 3089.21	\$ 0.00
1064986		2018/DEC/07	2019/DEC/07	2020/Dec/15	374	188.68	\$ 964.08	\$ 0.00

Table 1 Mineral title details.

## HISTORY

The area has been targeted in the past for base metal mineralization. Old workings targeting copper sulphides associated with gabbroic intrusions as well as sediment-hosted polymetallic veins have been documented on the property. More recent work including; rock and soil geochemistry, geological mapping, and ground and airborne geophysics have been conducted on portions of the property from 1984 to present during erratic periods of exploration. The summary of documented assessment work for the property is detailed below.

- Magrum, M. M. and Crowe, G. G. 1984. Geological report on the Whitefish and Goodhope claims, BC Geological Survey Branch Assessment Report 12825, 24pp.
- McCartney, I. D. 1993. Geological and geochemical report of the Mea 1, 2, 3, 4, claims, BC Geological Survey Branch Assessment Report 23049, 14pp.

- Ransom, P. W. 1997. Assessment report: Tow property, BC Geological Survey Branch Assessment Report 25177, 30pp
- Kennedy, S. 2007. Rock Geochemistry report, Whopper claims, Alisa Lake area, BC Geological Survey Branch Assessment Report 29315, 10pp
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- Cook, F. A. 2018. Acquisition, Processing and Inversion of a Magnetotelluric Profile Across the Meachen Bend (MB 01-16, MB 02-17) Property, BC Geological Survey Branch Assessment Report 37566, 27 pp.

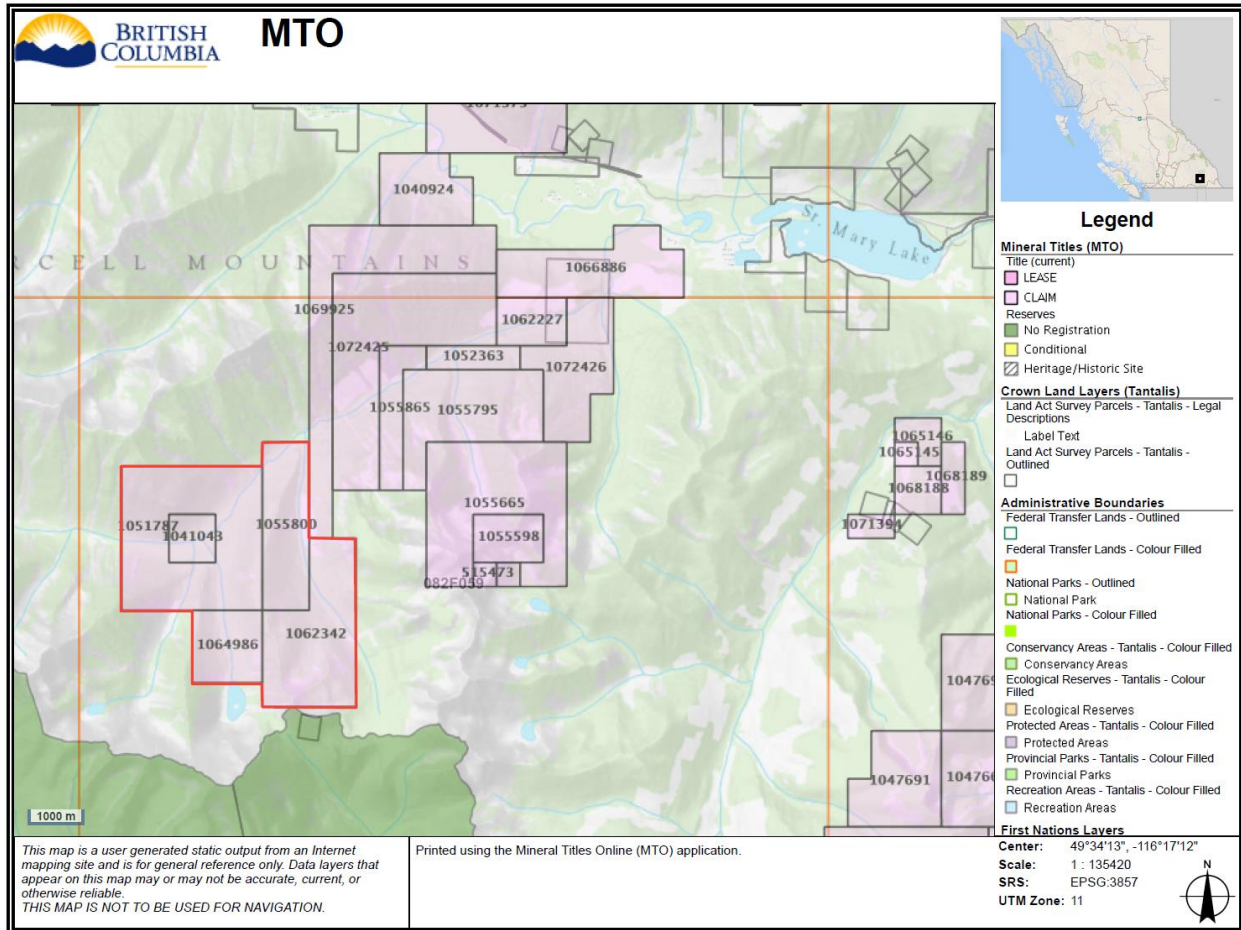


Figure 1. Meachen Bend claim and regional location map (mineral claim is outlined in red).

## PROPERTY GEOLOGY

The claims are underlain entirely by the Aldridge Formation of the meso-Proterozoic Purcell Supergroup. Rock units consist of medium to thick bedded quartzites and lesser dark siltite/argillite that have been intruded by syn-depositional gabbro-diorite dykes and sills. A late Cretaceous (78 Ma) intrusion crops out west of the property at Ailsa Lake.

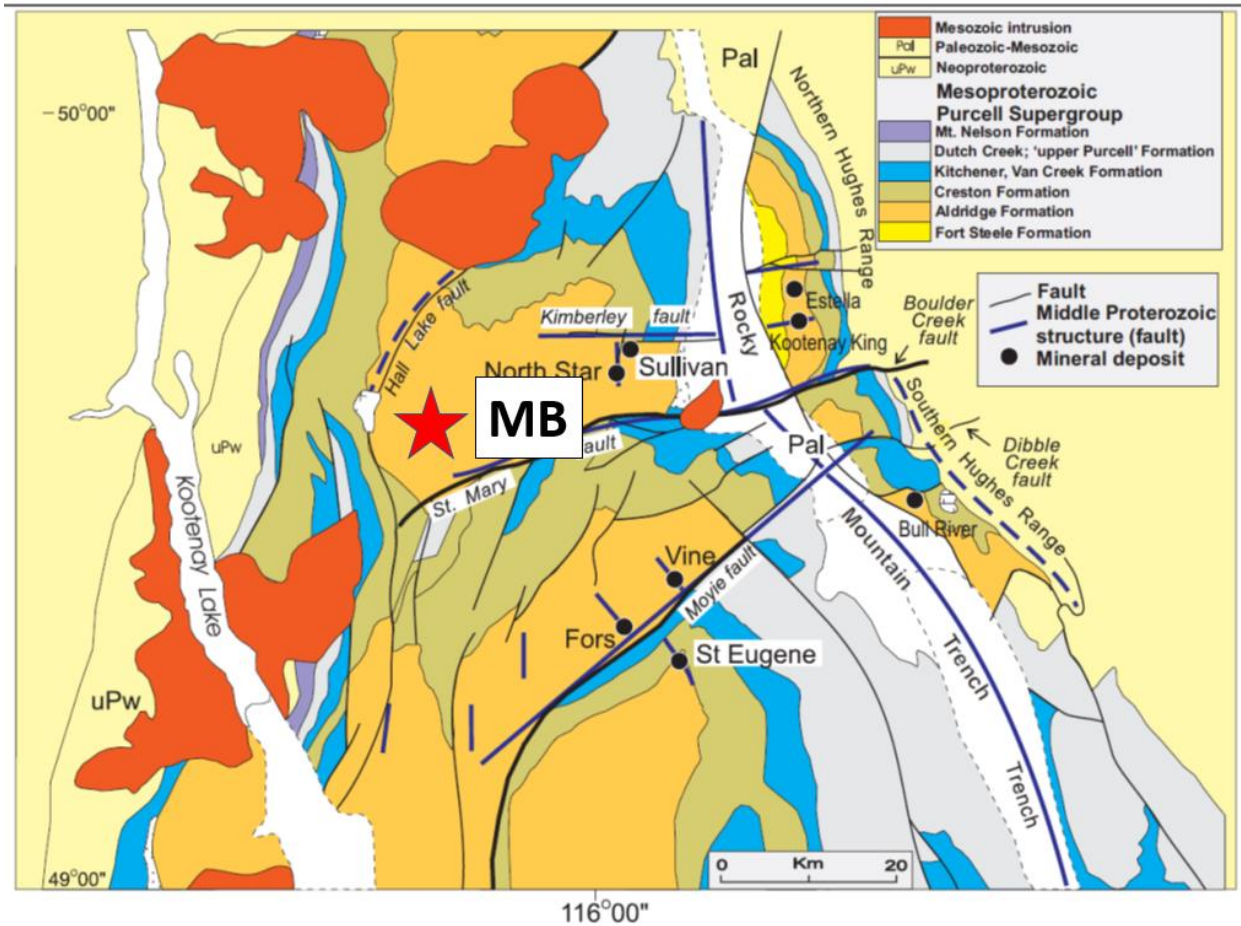


Figure 2 Regional geology

## PROSPECTING

Prospecting was conducted on the ridge between White Boar Creek and Fiddler Creek, near the headwaters of the west side of Fiddler Creek and north of Meachen Creek adjacent to the mouth of White Boar Creek.

## LITHOLOGIES

The dominant rock type encountered during traverses consisted of medium to thickly bedded quartzites and dark siltite of the Middle Aldridge Fm with lesser medium to coarse grained gabbroic intrusive sills. Syn-sedimentary deformation was identified in two areas. The first consists of slump folded siltite units east of White Boar Creek near the Meadowbrook time-stratigraphic marker unit, the second consists of a narrow clastic-dyke and slump folded units in the hanging-wall of a gabbroic sill north of Meachen Creek.

## STRUCTURE

Bedding attitudes show gentle to moderate dips in most areas except near high-angle faults where tight, almost isoclinal folding becomes prevalent. Folds are generally upright to slightly overturned to the west and plunge shallowly to the NNW. Amplitude on individual folds would likely measure in the tens of meters. Axial plane cleavage related to thrusting is ubiquitous throughout the area and forms a

penetrative NNW-west dipping high-angle fabric in most siltier units. Both NW and NE trending (300° and 50°) monoclinical warps occur adjacent to major fault zones (ie Fiddler Creek Fault). Late NE trending sub-vertical minor faults near the headwaters of Fiddler Creek show minor right-lateral movement which cuts the dominant axial planar cleavage and is therefore presumed to be young.

## ALTERATION

Two distinct alteration packages were identified in 2019. The first is designated as a sericite-pyrite alteration. It appears strata-bound and occurs with the Meadowbrook time-stratigraphic marker unit east of White Boar Creek. It is within a thick sequence of sedimentary units that weather extremely rusty (>20 m thick). It consists of sericitic bleaching (fine flakes and halos adjacent to thin fractures), disseminated/patchy iron sulphides (flooding), patchy albitization+/-silicification, Fe carbonate fractures, and calcareous concretions. The sequence was partially traced across the cliffy slope for over 1.5 km but remains open along strike. The alteration is spatially associated with localized slump folding (syn-sedimentary deformation).

The second alteration assemblage, categorized as Fe-oxide type, is widespread on the property. It is associated with jig-saw type breccias adjacent and within NNW trending fault structures. The alteration consists of a combination of chlorite veinlets/breccia fills, pervasive albite/cherty silicification, fracture and disseminated pyrite, magnetite (specularite) veinlets/breccia fills and lesser Fe-carbonate veins. Distally this alteration tends to feather out into a more widespread/diffuse Fe-carbonate halo with pale mauve (hematization?) and pale greenish/grey colouration/mottling.

## MINERALIZATION

Mineralization on the property consists chiefly of: weakly disseminated sphalerite typically associated with sericitic alteration east of White Boar Creek, poly-metallic quartz-sulphide veins (galena-arsenopyrite-pyrite+/-sphalerite) associated with nose folds and Fe-oxide alteration north of Meachen Creek and fracture-controlled chalcopyrite (malachite) associated with Fe-oxide breccias adjacent to fault structures (ie Fiddler Fault). As both polymetallic veins and fracture-controlled chalcopyrite occupy similar structural trends and are associated with Fe-oxide alteration it is likely the two are related and may reflect a zonation of a shared mineralizing process.

## TRAVERSES

Two traverses were made east of White Boar Creek into a prominent cliffy section that forms a semi-continuous band of cliffs along the west facing portion of the ridge between White Boar and Fiddler valleys. On both traverses the top of a gabbro sill was encountered as the lowest exposure. Overlying the sill was the sericite-pyrite alteration zone with trace disseminated sphalerite and vein-controlled galena described above. Disruption and slumping of the Meadowbrook time-stratigraphic marker was best developed on the northern most traverse. The area is transected by numerous topographic draws oriented around 80 degrees which commonly contain zones of brecciation with chlorite and carbonate. Offset of lithologies along these draws was not easily discernable.

A single traverse was made north of Meachen Creek near the mouth of White Boar Creek. Here two gabbro sills were encountered. A narrow NNW oriented clastic dyke and zone of slump-folding was found in the hanging-wall of the higher of the two sills. Quartz-calcite veins (+/-py/Cpy) were fairly common in the better exposed upper sill. While traversing across the sedimentary rocks, hanging-wall to the upper sill, a zone of tight NNW trending (isoclinal) folding was encountered. The total width of

deformation was in the tens of meters with at least two syncline-anticline pairs. Fe-oxide-type alteration as described above was developed within the fold zone, typically along fold noses and in fracture zones which followed the dominant NNW structural trend. Quartz-sulphide (py-PbS-AsPy) veins up to 30 cm are locally developed within certain lithologies in fold hinge zones and can be traced for tens of meters. Prospecting in 2016 discovered a series of copper rich quartz veins cutting a gabbro sill downslope and along trend of the veins sampled in 2019 indicating a strike length to the mineralized system in excess of 950 meters.

A single traverse was made near the headwaters of Fiddler Creek across an east flowing tributary-cirque. Here the Fiddler Fault was investigated. The fault forms a strongly deformed 340°-350°/sub-vertical shear zone that is intensely brecciated/foliated with strong albite-silica-chlorite alteration and local zones of Fe-oxides and sulphides (Fe-oxide-type). Chalcopyrite was found within the fault structure where there was an increase in pyrite. Exposures of the fault were up to 10 meters wide and could be traced in outcrop for tens of meters. Individual outcrop patterns of the fault appear to indicate the development of en-echelon and or anastomizing structures. The fault appears to be localized near an anticline hinge with a well-defined syncline formed around 250 meters to the west. Sedimentary units immediately west of the fault are subtly Fe-carbonate/hematitically altered. The upper portions of the cirque west of the Fiddler Fault contained fairly uniform Middle Aldridge sediments and one narrow gabbro sill six meters thick.

## ROCK GEOCHEMISTRY

A total of 14 rock samples were collected and analyzed for a 36 element ICP including Au in ppb. All samples were selective grabs.

Samples SK19-05 to 08 were from the polymetallic quartz veins north of Meachen Creek. The veins contain appreciable galena and arsenopyrite but returned low values in assays for precious metals.

Samples MK19-16, IC19-17-19 and SK19-12 were collected from altered sedimentary rocks east of White Boar Creek. Values for base and precious metals were low with only MK19-16 showing elevated values for Pb and Zn.

Samples TK19-106-109 were collected from the Fiddler Fault near the headwaters of Fiddler Creek. Only one sample contained elevated values for base metals (TK19-106, 540 ppm Cu). Tk19-108 assayed 247 ppb Au.

## CONCLUSIONS AND RECOMMENDATIONS

A modest program of prospecting and rock geochemistry was conducted on portions of the Meachen Bend property in 2019. Significant alteration (+weak Pb-Zn mineralization) and syn-sedimentary deformation was found within a broad stratigraphic interval near the Meadowbrook time-stratigraphic marker east of White Boar Creek. Polymetallic quartz veins were found localized along fold noses north of Meachen Creek and the Fiddler Fault was investigated near the headwaters of Fiddler Creek where it was found to carry anomalous values for Cu and Au. Both mineralized fracture systems (north of Meachen Creek and along the Fiddler Fault) were associated with Fe-oxide alteration.

The relationship of mineral timing is unclear. However, it seems plausible that the altered and weakly mineralized strata east of White Boar Creek may be related to an early (syn-sedimentary?) process. The

second style of mineralization (fracture controlled polymetallic) is spatially associated with Fe-oxide type alteration and is localized along NNW faults. This mineralization may be related to late Cretaceous intrusive activity analogous to other mineralized vein systems in the region. As the 78 Ma granitic Ailsa Lake stock is exposed less than 2 km west of the property boundary it seems likely there may be a relationship between the Fe-oxide related polymetallic veins and the intrusive event. The area is therefore prospective for both SEDEX and intrusive related polymetallic mineralization.

An MT survey was conducted along the Meachen Creek FSR in 2018 which identified a conductive anomaly near the mouth of Fiddler Creek (Cook, 2018). Additional MT should be completed to ‘pin’ the anomaly down and determine its relationship to the altered and slump-folded stratigraphic section at Meadowbrook-time as well as its relationship to a synclinal fold-closure immediately west of the metal-bearing Fiddler Fault and a magnetic anomaly near the Meachen Creek valley bottom. If the anomaly is shown to be localized within the fold closure and is within a permissive drilling depth it should be tested.

## STATEMENT OF COSTS

Meachen Bend Geology Program Spring & Summer 2019		
Mike Kennedy: May 8, 23, Jun 19		
3 Man days @ 400		\$ 1,200.00
3 Truck days @ 150		450.00
Sean Kennedy: May 8, 23, Jun 19		
3 Man days @ 400		1,200.00
Isaac Crombach: Jun 19		
1 Man day @ 285		285.00
14 Sample Acme BV		420.00
Sean Kennedy Report		800.00
<b>Total Costs</b>		<b>\$4,355.00</b>

## STATEMENT OF QUALIFICATIONS

I, Sean Kennedy, certify that:

1. I am an independent consulting prospector residing at 107 6<sup>th</sup> Ave, Kimberley, BC.
2. I have been actively prospecting and mapping throughout BC, Nevada, and Mexico for the past 18 years
3. I have been employed as a professional prospector by junior mineral exploration companies.
4. I have been employed as a field mapper by junior mineral exploration companies.
5. I have supervised and managed various levels of exploration programs.
6. I own and maintain mineral claims in BC.

Station	Utm East	Utm North	Description
MK19-16	546491	5489302	2 inch crackle breccia with lim.
IC19-17	546455	5489308	Sericitic quartzite with limonitic mottling
IC19-18	546499	5489244	Sericitic quartzite with limonitic mottling
IC19-19	546495	5489237	Sericitic quartzite with limonitic mottling
IC19-20	546511	5489135	Sericitic quartzite with limonitic mottling Blocks of talus material albitic silica breccia with pyrite and limonite with malachite staining and
TK19-106	548234	5487109	reddish oxide
TK19-107	548233	5487057	Block of silica material with weathered out boxworks
TK19-108	548220	5487015	Massive magnetite and quartz breccia material with pyrite
TK19-109	548226	5486995	Pyrite flooded silica material
SK19-05	544867	5490558	Qtz vein stockwork on fold hinge with limonite and carbonate
SK19-06	544845	5490553	Old pit, cleavage parallel qtz veins to 60 cm with poddy PbS and AsPy, cutting mixed Middle Ald.
SK19-07	544798	5490615	Same as above, vein is mostly weathered out
SK19-08	544759	5490682	En-echelon zone to last, quartz veins with limonite and carbonate punk
SK19-12	546687	5488006	Zone of albite and silicification with goethite rich carbonate altered quartz veins, patchy chlorite



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

**Client:** **Kootenay Silver Inc.**  
1650 - 1075 W. Georgia St.  
Vancouver British Columbia V6E 3C9 Canada

Submitted By: Email Distribution List - Soil & Rock  
Receiving Lab: Canada-Vancouver  
Received: June 14, 2019  
Report Date: June 27, 2019  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN19001440.1

## CLIENT JOB INFORMATION

Project: MB  
Shipment ID:  
P.O. Number  
Number of Samples: 5

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 days

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

Invoice To: Kootenay Silver Inc.  
1650 - 1075 W. Georgia St.  
Vancouver British Columbia V6E 3C9  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	5	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ201	5	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
AQ370	1	1:1:1 Aqua Regia digestion ICP-ES analysis	0.4	Completed	VAN

## ADDITIONAL COMMENTS

  
SOFIA DEVOTA  
XRF Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.  
\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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PHONE (604) 253-3158

**Client:** **Kootenay Silver Inc.**  
1650 - 1075 W. Georgia St.  
Vancouver British Columbia V6E 3C9 Canada

Project: MB  
Report Date: June 27, 2019

Page: 2 of 2

Part: 1 of 2

# CERTIFICATE OF ANALYSIS

**VAN19001440.1**

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	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	
SK19-05	Rock	0.38	0.5	16.8	10.3	15	<0.1	11.4	6.2	579	1.73	5.1	<0.5	13.2	4	0.2	<0.1	<0.1	3	0.02	0.019
SK19-06	Rock	0.38	0.3	85.2	>10000	24	>100	0.7	0.3	35	0.76	6084.2	17.5	0.8	2	5.6	97.6	34.8	<2	<0.01	0.002
SK19-07	Rock	0.54	0.9	18.1	580.7	277	1.3	38.6	26.5	593	5.12	160.5	6.5	8.4	3	0.4	1.8	3.0	16	0.02	0.029
SK19-08	Rock	0.50	0.4	2.4	227.0	120	0.3	1.7	1.4	167	1.44	2080.6	20.5	0.8	7	3.8	1.3	<0.1	<2	0.05	0.005
SK19-12	Rock	0.33	0.4	8.9	24.4	14	0.2	7.6	7.2	114	2.38	18.3	<0.5	10.0	2	<0.1	0.2	0.4	6	<0.01	0.015



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Project: MB  
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Page: 2 of 2

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# CERTIFICATE OF ANALYSIS

**VAN19001440.1**

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ374	AQ374
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Ag
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	gm/t
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01	2	
SK19-05	Rock	37	4	0.06	56	0.002	2	0.47	0.024	0.22	<0.1	<0.01	1.6	<0.1	<0.05	<1	<0.5	<0.2		
SK19-06	Rock	1	4	<0.01	4	<0.001	1	0.03	0.004	0.01	<0.1	0.04	0.1	0.1	0.95	<1	22.3	<0.2	5.99	98
SK19-07	Rock	17	8	0.11	21	<0.001	1	0.55	0.050	0.07	<0.1	0.01	7.0	<0.1	0.21	2	<0.5	<0.2		
SK19-08	Rock	1	4	<0.01	11	<0.001	<1	0.06	0.003	0.02	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2		
SK19-12	Rock	20	9	0.14	12	<0.001	<1	0.42	0.056	0.07	<0.1	<0.01	3.9	<0.1	<0.05	1	<0.5	<0.2		



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

**Client:** Kootenay Silver Inc.  
1650 - 1075 W. Georgia St.  
Vancouver British Columbia V6E 3C9 Canada

Project: MB  
Report Date: June 27, 2019

Page: 1 of 1

Part: 1 of 2

# QUALITY CONTROL REPORT

VAN19001440.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	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	
Pulp Duplicates																					
SK19-06	Rock	0.38	0.3	85.2	>10000	24	>100	0.7	0.3	35	0.76	6084.2	17.5	0.8	2	5.6	97.6	34.8	<2	<0.01	0.002
REP SK19-06	QC																				
SK19-07	Rock	0.54	0.9	18.1	580.7	277	1.3	38.6	26.5	593	5.12	160.5	6.5	8.4	3	0.4	1.8	3.0	16	0.02	0.029
REP SK19-07	QC		1.0	17.5	558.0	263	1.3	39.3	26.6	612	5.14	147.7	5.9	8.3	3	0.5	1.9	3.0	16	0.02	0.030
Reference Materials																					
STD DS11	Standard		15.3	152.9	140.4	350	1.7	84.0	14.2	1035	3.04	49.3	99.3	8.5	69	2.4	9.0	11.9	47	1.06	0.072
STD GC-7	Standard																				
STD OREAS133B	Standard																				
STD OREAS262	Standard		0.7	119.0	58.3	160	0.5	65.9	28.3	541	3.22	41.0	69.8	10.2	36	0.7	5.2	1.0	22	3.11	0.043
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD OREAS262 Expected			0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	65	9.33	36	0.61	5.06	1.03	22.5	2.98	0.04
STD GC-7 Expected																					
STD OREAS133B Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	2.4	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank		0.9	7.6	1.2	34	<0.1	0.8	3.8	535	1.82	2.5	0.7	2.4	27	<0.1	<0.1	<0.1	21	0.63	0.042



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

**Client:** Kootenay Silver Inc.  
1650 - 1075 W. Georgia St.  
Vancouver British Columbia V6E 3C9 Canada

Project: MB  
Report Date: June 27, 2019

Page: 1 of 1

Part: 2 of 2

# QUALITY CONTROL REPORT

VAN19001440.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ374	AQ374
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Ag
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	gm/t
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2	0.01	2
Pulp Duplicates																				
SK19-06	Rock	1	4	<0.01	4	<0.001	1	0.03	0.004	0.01	<0.1	0.04	0.1	0.1	0.95	<1	22.3	<0.2	5.99	98
REP SK19-06	QC																		6.08	99
SK19-07	Rock	17	8	0.11	21	<0.001	1	0.55	0.050	0.07	<0.1	0.01	7.0	<0.1	0.21	2	<0.5	<0.2		
REP SK19-07	QC	16	8	0.11	20	<0.001	1	0.56	0.051	0.08	<0.1	<0.01	7.0	<0.1	0.21	2	<0.5	<0.2		
Reference Materials																				
STD DS11	Standard	19	58	0.83	370	0.091	7	1.22	0.071	0.39	2.9	0.26	3.3	5.0	0.27	5	2.2	4.9		
STD GC-7	Standard																		>10	607
STD OREAS133B	Standard																		5.05	101
STD OREAS262	Standard	19	47	1.17	261	0.003	3	1.44	0.068	0.33	0.2	0.16	3.7	0.5	0.25	5	<0.5	0.3		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56		
STD OREAS262 Expected		15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	0.17	3.24	0.47	0.253	3.73	0.4	0.23		
STD GC-7 Expected																			10.44	624
STD OREAS133B Expected																			5.07	104
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank																		0.01	2
Prep Wash																				
ROCK-VAN	Prep Blank	6	3	0.50	56	0.079	1	0.89	0.073	0.07	<0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2		



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Kootenay Silver Inc.**  
1650 - 1075 W. Georgia St.  
Vancouver British Columbia V6E 3C9 Canada

Submitted By: Email Distribution List - Soil & Rock  
Receiving Lab: Canada-Vancouver  
Received: September 12, 2019  
Report Date: September 29, 2019  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN19002609.1

## CLIENT JOB INFORMATION

Project: Meachen Bend  
Shipment ID:  
P.O. Number  
Number of Samples: 20

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 days

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

Invoice To: Kootenay Silver Inc.  
1650 - 1075 W. Georgia St.  
Vancouver British Columbia V6E 3C9  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	19	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ201	19	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
Ship	1	Shipping charges for collect packages			VAN
AQ374	1	1:1:1 Aqua Regia Digestion ICP-ES Finish	0.4	Completed	VAN

## ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
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**Client:** Kootenay Silver Inc.  
1650 - 1075 W. Georgia St.  
Vancouver British Columbia V6E 3C9 Canada

**Project:** Meachen Bend  
**Report Date:** September 29, 2019

Page: 2 of 2

Part: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN19002609.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	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	1	0.01	0.001	
TK19-106	Rock	0.83	0.2	542.0	8.8	8	0.4	2.7	6.2	280	1.16	1.3	2.3	2.9	1	0.2	8.5	1.2	1	0.16	0.003
TK19-107	Rock	0.61	0.1	1.7	1.4	<1	<0.1	0.6	0.1	43	0.43	1.7	1.7	0.3	<1	<0.1	<0.1	<0.1	1	<0.01	<0.001
TK19-108	Rock	0.83	0.1	8.0	50.8	28	0.4	23.6	14.2	220	20.43	26.1	247.3	2.1	2	<0.1	0.5	1.9	270	0.04	<0.001
TK19-109	Rock	0.53	0.5	8.5	59.4	4	0.4	19.5	18.4	46	2.81	55.2	29.5	5.5	<1	<0.1	0.6	2.6	5	<0.01	0.003
IC19-17	Rock	0.47	0.7	11.7	33.1	41	<0.1	5.6	2.8	201	1.66	73.0	1.6	8.2	5	<0.1	0.2	0.4	8	0.02	0.011
IC19-18	Rock	0.92	0.4	9.3	41.6	111	<0.1	7.2	5.2	451	3.67	12.8	<0.5	8.5	6	<0.1	0.2	<0.1	12	0.07	0.029
IC19-19	Rock	0.65	0.3	5.9	16.8	12	<0.1	1.7	1.1	209	0.58	3.9	1.0	1.5	5	<0.1	0.3	0.2	2	0.07	0.039
IC19-20	Rock	0.64	0.6	9.3	13.8	8	<0.1	2.9	2.9	196	0.76	4.6	0.5	1.8	5	<0.1	0.2	0.1	3	0.03	0.007
MK19-16	Rock	0.30	0.5	42.1	152.2	218	0.3	30.2	23.0	652	1.99	41.5	3.3	8.6	5	0.6	0.5	0.8	8	0.04	0.034



Bureau Veritas Commodities Canada Ltd.

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**Client:** Kootenay Silver Inc.  
1650 - 1075 W. Georgia St.  
Vancouver British Columbia V6E 3C9 Canada

**Project:** Meachen Bend  
**Report Date:** September 29, 2019

**Page:** 2 of 2

**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

VAN19002609.1

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ374
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01
TK19-106	Rock	7	4	0.07	13	<0.001	<1	0.06	0.003	0.01	<0.1	0.01	1.9	<0.1	0.10	<1	<0.5	0.2
TK19-107	Rock	<1	6	<0.01	4	<0.001	<1	0.03	0.002	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
TK19-108	Rock	<1	6	<0.01	27	0.004	<1	0.04	0.012	0.02	6.9	<0.01	5.7	<0.1	1.98	1	0.6	<0.2
TK19-109	Rock	14	7	<0.01	25	<0.001	<1	0.13	0.003	0.11	0.3	0.06	0.3	<0.1	2.27	<1	0.9	<0.2
IC19-17	Rock	5	13	0.10	35	0.013	<1	0.48	0.041	0.14	<0.1	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
IC19-18	Rock	15	13	0.94	55	0.005	2	1.95	0.009	0.31	<0.1	<0.01	1.6	0.1	<0.05	5	<0.5	<0.2
IC19-19	Rock	2	8	<0.01	6	0.003	<1	0.06	0.009	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
IC19-20	Rock	3	9	0.06	8	0.017	<1	0.16	0.021	0.04	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
MK19-16	Rock	32	15	0.18	39	0.013	<1	0.57	0.081	0.11	<0.1	<0.01	2.3	<0.1	<0.05	1	<0.5	<0.2



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

Project: Meachen Bend  
Report Date: September 29, 2019

Page: 1 of 1

Part: 1 of 2

# QUALITY CONTROL REPORT

VAN19002609.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P		
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
MDL	0.01	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	1	0.01	0.01			
Pulp Duplicates																						
Core Reject Duplicates																						
Reference Materials																						
STD DS11	Standard	13.9	150.7	138.1	327	1.7	76.9	13.5	1024	3.08	43.9	77.3	8.5	67	2.4	8.5	11.5	49	1.03	0.074		
STD DS11	Standard	13.9	132.7	128.0	322	1.7	79.5	13.2	998	3.06	44.1	81.3	8.0	58	2.0	8.0	10.9	48	1.02	0.066		
STD GC-7	Standard																					
STD OREAS133B	Standard																					
STD OREAS262	Standard	0.6	120.8	60.1	150	0.5	65.2	28.4	556	3.23	37.4	65.4	11.2	39	0.6	5.9	1.0	22	2.97	0.041		
STD OREAS262	Standard	0.7	106.3	48.4	133	0.5	64.3	26.4	563	3.18	36.3	74.5	8.5	32	0.5	5.3	0.9	21	2.96	0.037		
STD GC-7 Expected																						
STD OREAS133B Expected																						
STD DS11 Expected		14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701		
STD OREAS262 Expected		0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	65	9.33	36	0.61	5.06	1.03	22.5	2.98	0.04		
BLK	Blank	<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	<1	<0.01	<0.001		
BLK	Blank																					
BLK	Blank	<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	<1	<0.01	<0.001		
Prep Wash																						
ROCK-VAN	Prep Blank	0.7	4.7	1.0	28	<0.1	0.6	3.0	441	1.75	0.9	1.9	1.9	20	<0.1	<0.1	<0.1	21	1.33	0.036		
ROCK-VAN	Prep Blank	0.9	7.2	0.9	27	<0.1	0.6	3.4	476	1.92	0.7	<0.5	2.1	18	<0.1	<0.1	<0.1	24	0.61	0.038		



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
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Project: Meachen Bend  
Report Date: September 29, 2019

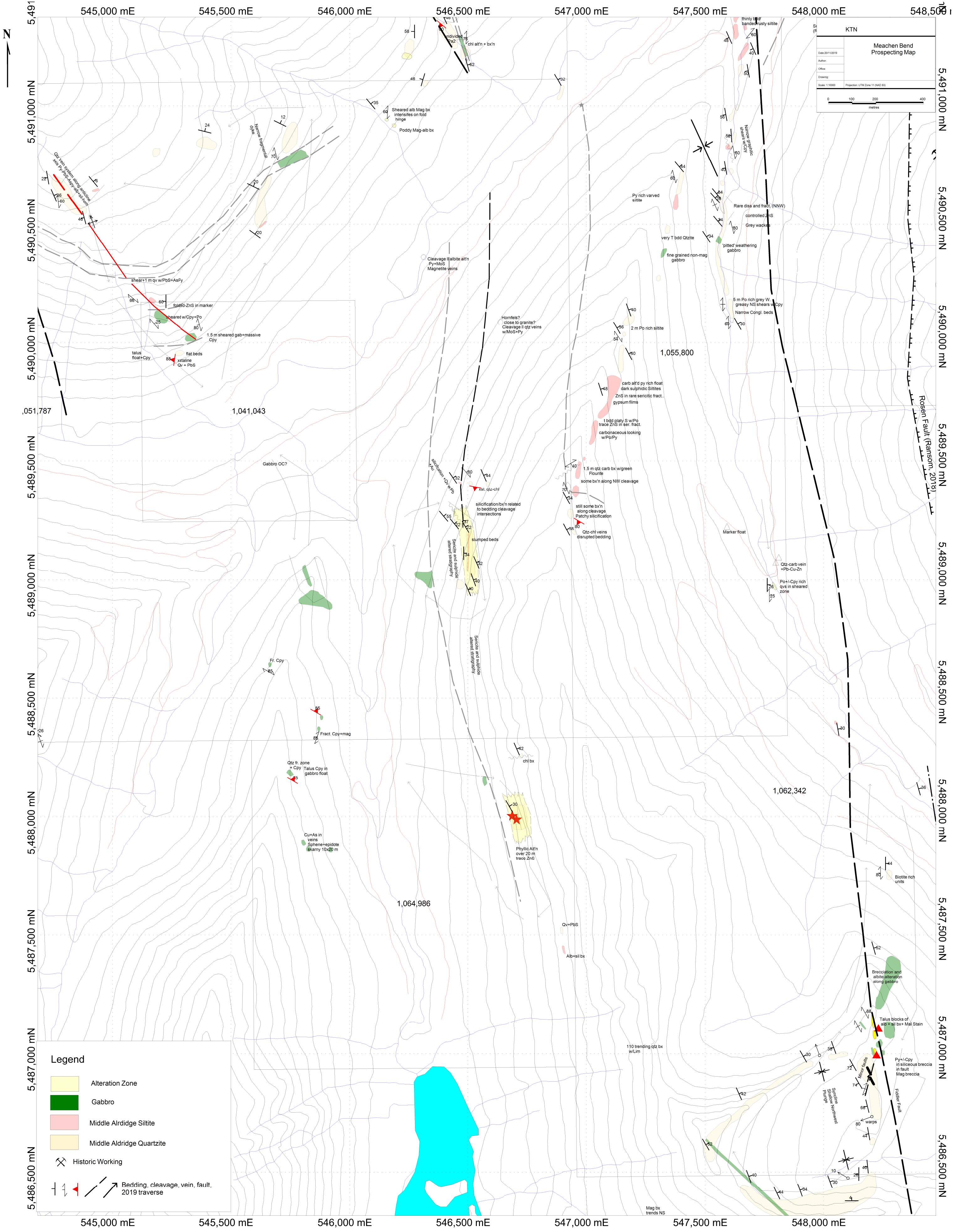
Page: 1 of 1

Part: 2 of 2

# QUALITY CONTROL REPORT

VAN19002609.1

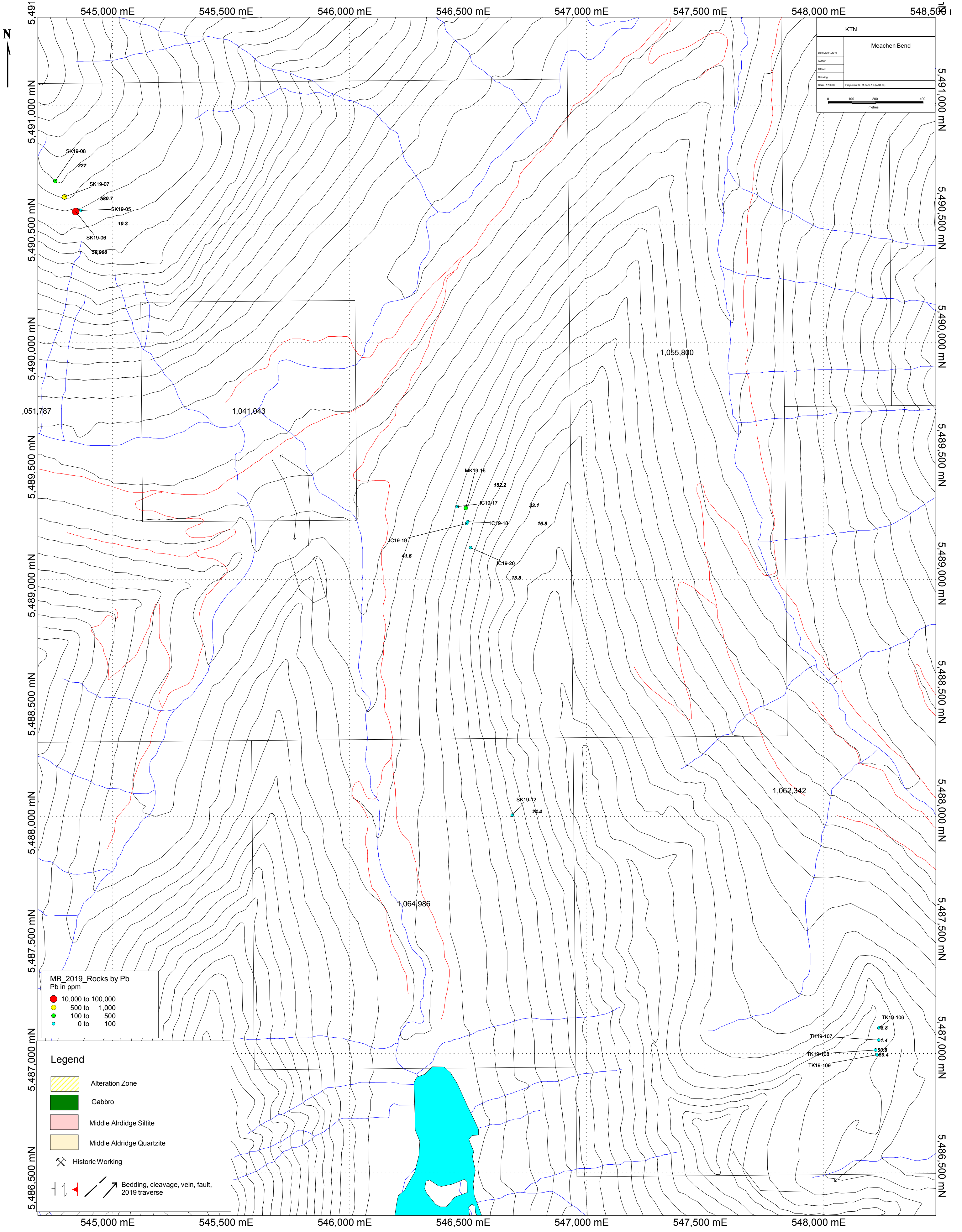
Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ374
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01	
Pulp Duplicates																			
Core Reject Duplicates																			
Reference Materials																			
STD DS11	Standard	19	58	0.84	355	0.084	7	1.13	0.070	0.39	2.8	0.25	3.3	4.9	0.27	5	2.2	4.6	
STD DS11	Standard	15	54	0.83	373	0.077	10	1.10	0.070	0.38	3.5	0.28	2.9	4.8	0.27	5	2.2	4.7	
STD GC-7	Standard																		>10
STD OREAS133B	Standard																		5.05
STD OREAS262	Standard	17	44	1.17	252	0.002	3	1.35	0.069	0.31	0.2	0.15	3.4	0.5	0.26	4	0.6	0.2	
STD OREAS262	Standard	12	40	1.17	255	0.002	3	1.21	0.069	0.29	0.2	0.17	2.9	0.5	0.25	4	<0.5	0.2	
STD GC-7 Expected																			10.44
STD OREAS133B Expected																			5.07
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56	
STD OREAS262 Expected		15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	0.17	3.24	0.47	0.253	3.73	0.4	0.23	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																		<0.01
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																			
ROCK-VAN	Prep Blank	5	5	0.38	61	0.064	2	0.88	0.136	0.12	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2	
ROCK-VAN	Prep Blank	6	5	0.42	61	0.065	1	0.90	0.137	0.13	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2	



KTN	
Meachen Bend Prospecting Map	
Date: 2011/02/19	Author:
Office:	Drawing:
Scale: 1:10000	Projection: UTM Zone 11 (NAD 83)
0 100 200 400 metres	

**Legend**

- Alteration Zone
- Gabbro
- Middle Aldridge Siltite
- Middle Aldridge Quartzite
- Historic Working
- Bedding, cleavage, vein, fault, 2019 traverse



KTN	
Meachen Bend	
Date: 20190919	Author:
Office:	Drawing:
Scale: 1:1000	Projection: UTM Zone 11 (NAD 83)

0 100 200 400  
metres

**MB\_2019\_Rocks by Pb**  
Pb in ppm

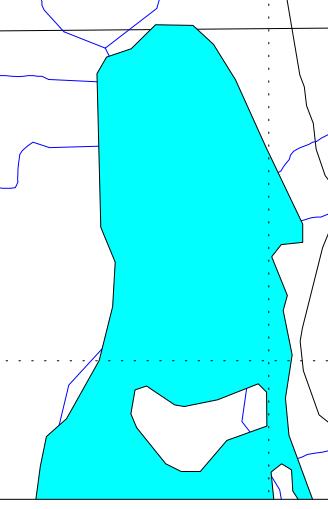
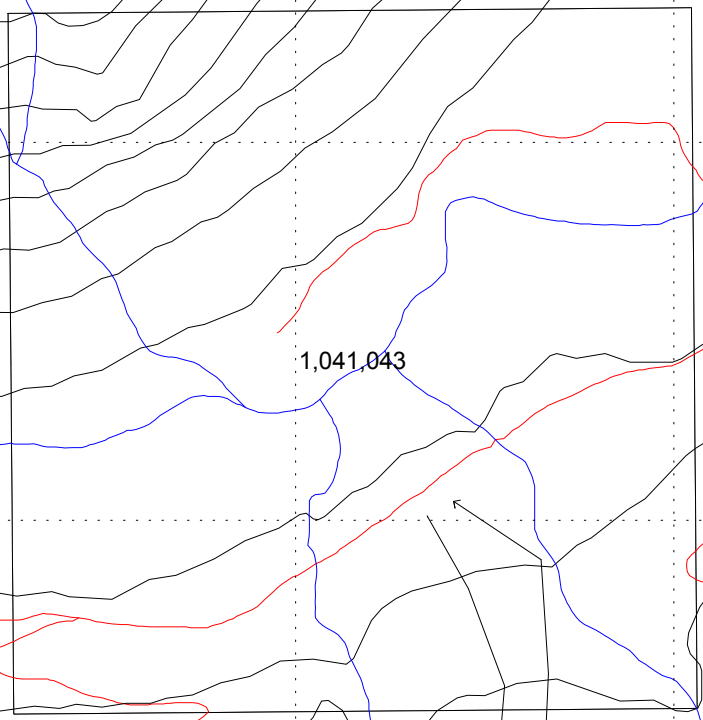
- 10,000 to 100,000
- 500 to 1,000
- 100 to 500
- 0 to 100

**Legend**

- Alteration Zone
- Gabbro
- Middle Aldridge Siltite
- Middle Aldridge Quartzite
- Historic Working
- Bedding, cleavage, vein, fault, 2019 traverse

5,491,000 mN  
5,490,500 mN  
5,490,000 mN  
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