BC Geological Survey Assessment Report 41005

Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: XRF Study Of Limonite GeoChem Meachen Bend **TOTAL COST:** $4427.00

AUTHOR(S): Craig Kennedy **SIGNATURE(S):**

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): N/A **YEAR OF WORK:** 2022

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 964222 , September 2022

PROPERTY NAME: Meachen Bend (MB)

CLAIM NAME(S) (on which the work was done): 1041043, 1089264

COMMODITIES SOUGHT: Cu, Pb, Zn, Ag

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Fort Steele **NTS/BCGS:** 082.F059 UTM 54600E - 5491000N

LATITUDE: ____ ° ____ ' ____ " **LONGITUDE:** ____ ° ____ ' ____ " **(at centre of work)**

OWNER(S):

1) Craig Kennedy & Darlene Lavoie 2)

MAILING ADDRESS:

2290 Dewolfe Ave

Kimberley BC V1A 1P5

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

1) Kootenay Resources Inc. 2)

MAILING ADDRESS:

Suite 1125 - 595 Howe Street

Vancouver BC V6C 2T5

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Middle Aldridge Formation, Upper Gabbro Sill Package, Multiple North Trending Faults. Fiddler Fault, Tight Zone of Folding, Cu, Pb, Zn , Fracture Mineraliztion

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 37566, 36666

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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		Tenures 141043, 1089624	4427.16
Silt			
Rock	91 Rock Samples		
Other			
DRILLING (total metres; number of holes, size)			
Core			
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			
		TOTAL COST:	4427.16

Assessment Report

Meachen Bend (MB) Property

pXRF Study of Limonite Geochemistry for Cu, Zn, Pb and As

FORT STEELE MINING DIVISION

NTS. MAP SHEET 082F.059

UTM COORDINATES 546500E, 5491000N

Report:

Craig Kennedy, Prospector
Kimberley BC

Property Owners:

Craig Kennedy
&
Darlene Lavoie
2290 Dewolfe Ave
Kimberley, BC

Operator:

Kootenay Resources Inc.
Suite 1125 - 595 Howe Street
Vancouver BC V6C 2T5

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1.00 INTRODUCTION

Two days were spent collecting rock lith-chemical samples and assaying the samples with a portable XRF. Samples collected were assayed for Cu, Zn, Pb, and As. The following report discusses technique and results for the program.

1.10 Location and Access

The Meachen Bend claims are located approximately 32 km west of Kimberley BC in the Meachen and Fiddler Creek drainages. (Figure 1) Access to the claims is provided by the main Meachen Creek haul road and then southern logging spur road up Fiddler Creek.

1.20 History

The area underlain by the Meachen Bend mineral claim group has been held at times by various mining companies. Serval small programs of limited geological mapping and soil sampling were carried out on the property and are referenced in ARIS reports: 23049, 2517, and 25177. This work was focused on searching for a "Sullivan" like massive sulfide deposit hosted in similar stratigraphy at Kimberley BC.

To the east of the claim group several historic workings for copper occur as well as a number of significant lead zinc showings. A small intrusion to the southwest of the claim group hosts tungsten and molybdenum mineralization in greisen style veining. To the west of this several copper/silver Minfile showings occur in hangingwall stratigraphy to the Meachen Bend Property.

Several government funded aerial geophysical surveys were flown in the regin and provided coverage of the existing claim group. A single seismic line runs through the valley bottom roughly in the east west direction from east of Kimberley to the head waters of Meachen Creek. Reprocessing of this line data by Fred Cook, Ph.D., P.Geo. identified a seismic anomaly along the at the possible Lower/Middle Aldridge contact at depth with similar properties to the "Sullivan" massive sulfide deposit at Kimberley and provided the impetus for staking the original claim block. A

subsequent Magneto-Telluric survey was run along the trace of the seismic line to help with interpretation of geology at depth.

Several conductive features of interest were found including a strong near surface anomaly near Fiddler Creek and several conductive “corridors” emanating from the seismic anomaly at depth. This work is described in ARIS reports: 36666 and 37566.

1.30 The Property and Tenures

The Meachen Bend Property consists of four mineral tenures 1041043, 1051787, 1089264 and 1089307 and covers roughly 1844 Ha of area. The claim group is located in the Fort Steele mining division and is owned by Craig Kennedy and Darlene Lavoie of Kimberley BC. All tenure is subject to an option agreement with Kootenay Resources Inc.

1.40 Physiography

The Meachen Bend covers an area of rugged to subdued topography along both the north and south sides of Meachen Creek and the western flank and valley bottom of the lower reaches of the Fiddler Creek drainage. Elevations on the claim range from 1280 m to 2240 m. Spruce, cedar and hemlock with some balsam covers most of the valley floor. Above the valley bottom immature stands of cedar, hemlock, larch, pine and spruce with balsam occur with a mossy understory. Cliff exposures dominate in areas of extreme topography. Several areas have been logged in the mid-seventies to eighties and are in various states of regeneration.

1.50 Purpose of Work

The purpose of the limonite XRF program was to investigate Middle Aldridge mafic intrusions for indications of potential mineralization associated with both magneto telluric anomalies and seismic reflectors.

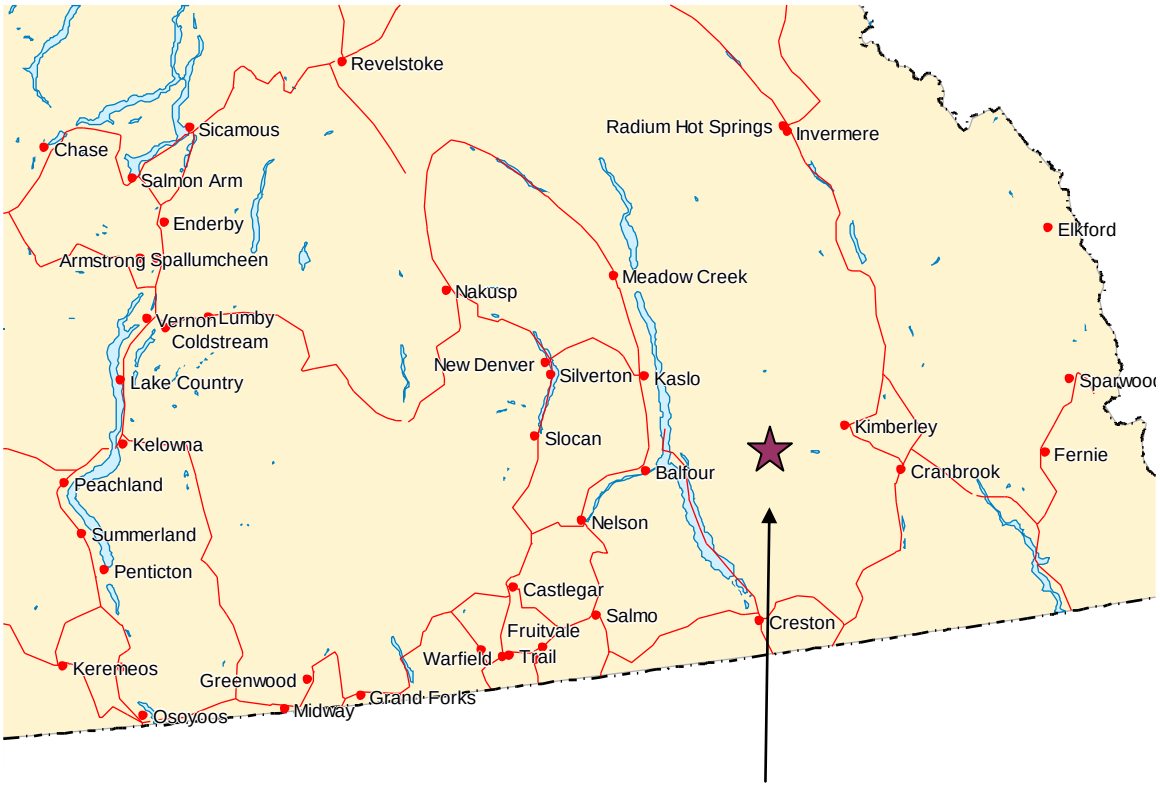


Figure 1, Regional Property Location Map Meachen Bend (MB) Property Location

2.00 GEOLOGY

The Meachen Bend Property is underlain by sediments and gabbro intrusive rocks assigned to the Precambrian Aldridge Formation. Middle to Upper divisions of the formation has been mapped on or adjacent to the property. (Figure 3) The contact between the Lower and Middle Aldridge units is the host stratigraphy to the wold class Sullivan lead-zinc deposit at Kimberley BC and is inferred to occur at depth on the claims.

Several north northwest trending faults cross the property with most significant offset occurring along the Fiddler Creek Fault. Sediments across the property are tightly folded into synclines and anticlines parallel to the mapped faults. Region wide significant alteration and mineralization appears to be controlled by similar faults.

3.00 SUMMARY

The Meachen Bend property hosts a geologically complex structural zone within Middle Aldridge rocks of the Belt Purcell. A recent forest fire and subsequent salvage logging has exposed two dio-gabbro outcrops along the main Meachen Creek forestry road. These outcrops are interpreted to be intrusives within the mid-middle Aldridge sill package, specifically the Meadowbrook or Sundown sills. Previous XRF analysis of limonites associated with dio-gabbro rocks has indicated increased values for base metals can be expected. At an early stage this perceived result may be due to the composition and general geochemistry of the mafic intrusions. At a minimum it provided for the opportunity; anomalous dio-gabbro limonites may provide a more direct focus for base metal accumulations in the surrounding environment.

The three sample locations reported on all exist in what might be the Sundown sill. The base of the Sundown sill is approximately 1000 meters stratigraphically above the logical location of the Sullivan deposit 25 km to the northeast at Kimberley BC. As can be seen in the data; the three sites analysed do indicate varying ranges in values and geochemical species. This could provide opportunity for defining metal zoning and this relationship to important structure leakage and future drill hole locations.

4.00 LIMONITE AND GEOCHEMISTRY PROGRAM

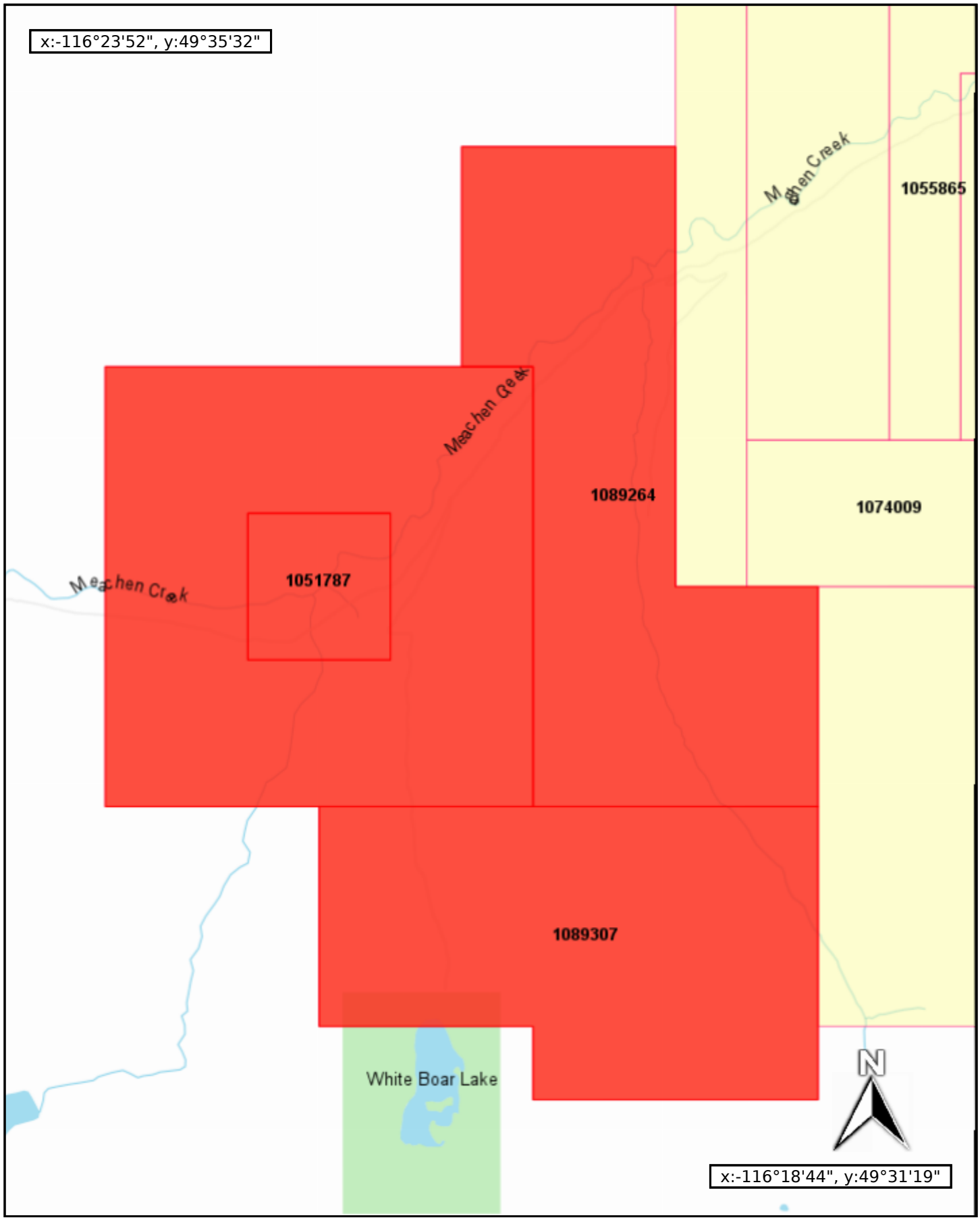
As stated previously, two new outcrops of di-gabbro intrusives have been exposed along the Meachen Creek logging road; these being sites MB-1 and MB-2. Site MB-3 is a historic exposure related to original road construction in the early 1970's. All rock samples collected were either mafic intrusive, magnetite or crosscutting quartz veins hosted by intrusions. Sample Site MB-01 had 31 samples collected. Sample site MB-02 had 38, and site MB-03 had 22 rock samples collected. Some rock samples had a number of limonite faces analysed. MB-1 had 35 pXRF readings, MB-2 had 42 and MB-3 had 24 readings.

Values for sample sites are simple averages for species. Individual rocks with multiple pXRF readings were averaged prior to site averages being calculated. Collections were collected from an average 15 X 30 meter area. Site rock samples were analysed using a Thermal Fischer Scientific Niton XL3 hand held portable XRF unit. 30 second spot readings were taken on limonite faces for metals. Only analysed

Cu, Zn, Pb and As are included in this report. All sample site locations had UTM co-ordinates taken and all data was placed into a spreadsheet for current and future interpretation. All readings with the pXRF unit represent ppm values. Site averages for Cu, Zn, Pb and As were plotted on maps. Site and rock sample data is contained in Appendix 1.

Meachen Bend (MB) Property

Claim Map 1:50000

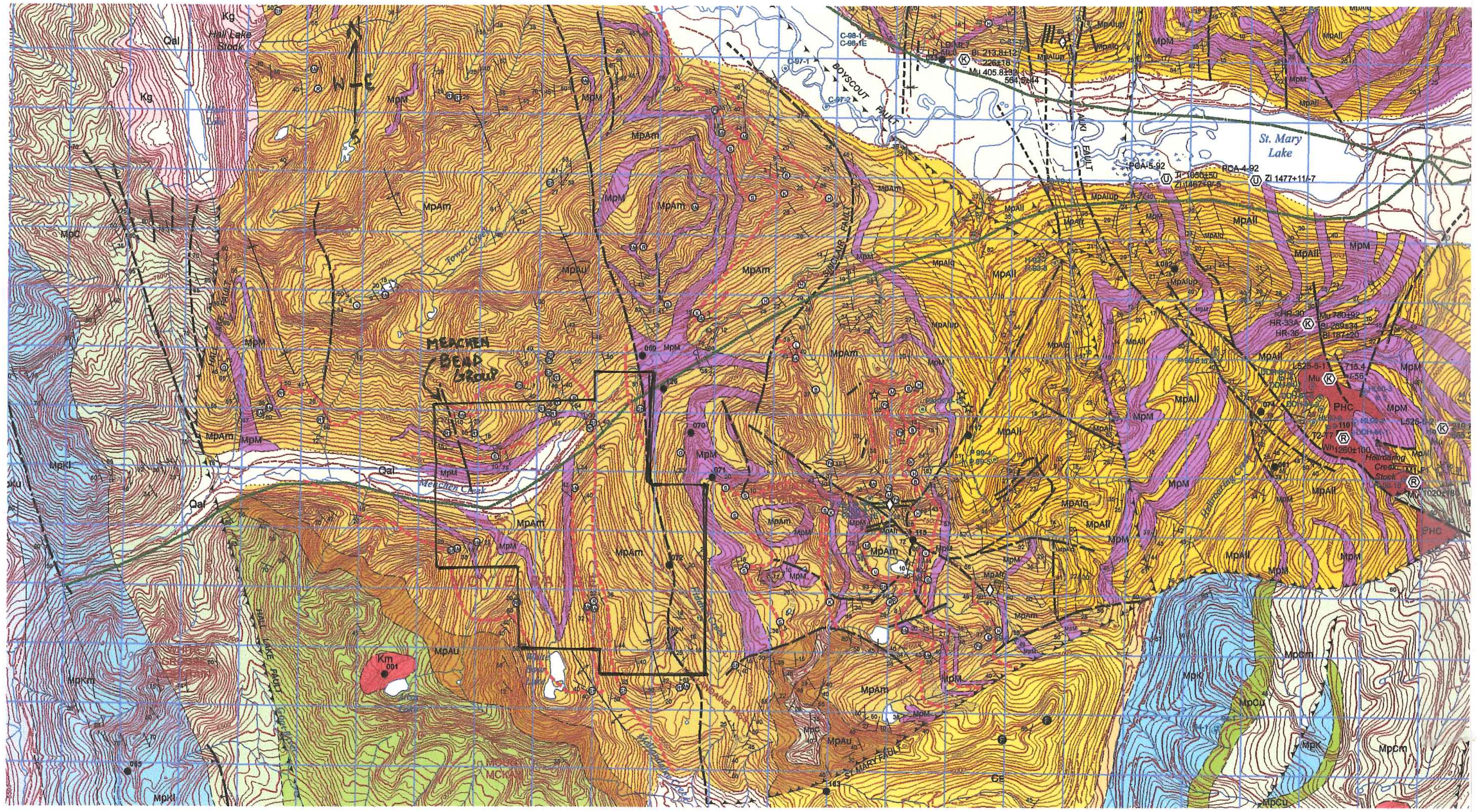


1 km
3300 ft

Apr/25/2023
Scale 1:50000

This map is generated from MapPlace.

FIGURE 3. REGIONAL GEOLOGY
(FROM OPEN FILE 6309 COMPILED BY BROWN, D.A., MACLEOD, R.F., AND WAGNER, C.F.)



SCALE 1:100,000

0Km 1Km 2Km 3Km 4Km 5Km

LAYERED ROCKS

Coloured legend blocks indicate map units that appear on this map.

CENOZOIC
QUATERNARY

Qal — *Unconsolidated outwash, alluvium, colluvium and till.*

PALEOZOIC
CAMBRIAN

LOWER AND (?)MIDDLE CAMBRIAN

EAGER FORMATION

ЄE — *Grey argillite, silty argillite, siltstone; buff weathering, silty limestone; rare bioclastic beds.*

CRANBROOK FORMATION

ЄC — *Calcite marble, dolomite marble, calc-silicate.*

PROTEROZOIC
MESOPROTEROZOIC (HELIKIAN)

PURCELL SUPERGROUP

DUTCH CREEK FORMATION

MpDC — *Green siltstone, argillite, stromatolitic dolomite, quartz wacke.*

GATEWAY FORMATION

MpG — *Dolomite, quartz wacke, siltstone, argillite.*

NICOL CREEK FORMATION

MpNC — *Massive to amygdaloidal, basalt to andesite lava flows, volcanic sandstone, siltite.*

VAN CREEK FORMATION

MpVC — *Pale green, laminated, siltite and argillaceous siltite, and quartz wacke; minor ripple marks, lenticular bedding, rare flattened mudcracks.*

KITCHENER FORMATION

MpK — *Undivided.*

MpKu — UPPER: *thin- to thick-bedded, white to grey dolomite, with interbedded white quartzite.*

MpKm — MIDDLE: *dolomitic siltstone, dolomitic argillite, and dolomite, commonly buff-weathering; argillite, siltstone, quartzite; molar green tinged dolomitic siltstone near base.*

MpKl — LOWER: *green and beige siltstone, dark grey argillite, dolomitic siltstone.*

CRESTON FORMATION

MpC — *Undivided.*

MpCu — UPPER: *green siltstone; black or purple argillite and siltstone.*

MpCm — MIDDLE: *light grey, mauve, purple, thin- to medium-bedded quartz arenite, quartz wacke, lesser grey siltite and argillite; white quartzite interbeds; lenticular bedding, ripples, cross-bedding and mudcracks.*

MpCl — LOWER: *waxy green to olive with tan weathering surfaces, laminated to thick-bedded argillite and siltite; lesser fine-grained quartz wacke. Wavy bedding and abundant mudcracks.*

MpClmc — *Mud-cracked member.*

ALDRIDGE FORMATION

MpA

MpAfr — *Fragmental rocks interpreted as sedimentary debris flows, breccia formed in dewatering pathways, mud volcano debris, and hydrothermal breccias; stratiform and discordant; matrix- and framework-supported fragmental rocks consisting of angular to rounded quartzite clasts having a size range of <2 mm to >2 m.*

MpAu — UPPER: *rusty brown weathering, grey to dark grey, fissile to platy, laminated silty argillite, and siltite.*

MpAm — MIDDLE: *grey to rusty weathering, thick to thin-bedded, quartzofeldspathic wacke intercalated with argillite and siltite.*

MpAl — LOWER: *rusty brown weathering, thin- to medium-bedded, quartz wacke, quartz arenite.*

MpAlup — *Upper siltites: argillite, minor quartzite.*

MpAlq — *"Footwall quartzites": grey quartzite, quartz wacke.*

MpAllp — *Lower siltites: siltstone, argillite, minor quartzite.*

INTRUSIVE ROCKS

MESOZOIC
CRETACEOUS (?)

Kg — *Massive, medium-grained, quartz monzonite, monzonite, and granodiorite. includes Hall Lake Stock.*

Km — *Biotite monzogranite; medium- to fine-grained, massive; includes Angus Creek Stock.*

PROTEROZOIC
MESOPROTEROZOIC (HELIKIAN)
MESOHELIKIAN

PHC — HELLROARING CREEK STOCK: *Granitoid pegmatite, coarse-grained tourmaline-rich pegmatite, ~ 1370 Ma. (Smith and Brown, 1998)*

PMC — *MATTHEW CREEK STOCK: Pegmatite.*

Mpb — *Mafic sills and rare dikes hosted in Kitchener Formation. Olive green, massive to plagioclase porphyritic.*

MOYIE INTRUSIONS

MpM — *"Moyie Sills". Dark green to black, medium- to fine-grained gabbro and hornblende quartz diorite sills and minor dikes. Zircon U-Pb dates circa 1467 Ma (Anderson and Davis, 1995).*

SYMBOLS

Geological contact: defined, approximate, assumed

Outcrop

Quaternary limit of cover

Fault: defined, approximate, assumed

Fault, thrust (teeth on upthrust side): defined, approximate, assumed

Fault, normal (solid circle indicates downthrown side): defined, approximate, assumed

Bedding: inclined, vertical, overturned 75 23

Bedding: facing direction known 66

Foliation, schistosity, fracture cleavage: inclined, vertical 61

Mylonitic foliation 23

Foliation (granitic rocks): primary (inclined) 24

Fold axis, symmetric fold: general 57

Fold axis, assymmetric fold: Z-fold, S-fold 12 45

Lineation: undefined 29

Sedimentary fragmentals (isolated exposures).

Tourmalinite: outcrop

Marker locality (see index for abbreviations)

Geochronolgy sample: Age Method: Ar/Ar, K/Ar, Rb/Sr, Sm/Nd, U/Pb, (Lab number, Age, Mineral marked as shown) Sample Number Age Mineral

MINFILE mineral occurrence (see table) past producer, developed prospect, prospect, showing 001

Drill hole and reference number (see Joseph et al., 2010). G-4

Fossil locality.

Anticline, syncline (trace of axial surface)

Antiform, synform (trace of axial surface)

Overturned anticline, syncline (trace of axial surface)

Overturned antiform, synform (trace of axial surface)

Marker horizon projection: defined, approximate, assumed

Approximate location of seismic line

Matthew Creek Metamorphic Zone Boundary

Sullivan Ore Body

Sullivan Graben System limit

5.00 RESULTS

The two newly exposed mafic intrusive outcrops MB-1 and MB-2 have interesting values for Cu, Pb, and As. This poly metallic signature is quite different from MB-3 which only indicates anomalous Cu. The polymetallic signature of MB-1 and MB-2; Pb, As specifically indicates a potential polymetallic source at depth.

6.00 CONCLUSION

As with previous work of this nature on other properties it seems possible that dio-gabbro intrusives may provide a good litho environment, a "proxy" for limonite geochemistry in the Aldridge Formation. The hypothesis would be that the dio-gabbros were introduced slightly before or/and after consolidation of Aldridge sediments. Chemically, dio-gabbro intrusives are a good dropout candidate for acid rich fluids migrating along structures or lithological contacts. In general, much more sampling of dio-gabbro hosted limonite is required before a solid exploration potential can be expected. Because of the evaluation advantages of the pXRF and ease of limonite collection, a real opportunity for this exploration technique exists.

The Meachen Bend property is an intriguing mineral exploration target as indicated by the following exploration attributed listed below

1) Geological setting
2) Existing mineralization
3) Geophysical compilation

Reference to the exploration attributes can be found in previous assessment reports 36666, 37566, 37929 and 38614.

7.00 STATEMENT OF EXPENDITURES

Meachen Bend pXRF Geochemistry Program
Fall 2022

Craig Kennedy: Sep 17 & 18, 2022		
2	Man days @ 472.50	$ 945.00
2	Truck days @ 78.75	157.50
114 KM	@.75	89.78
Tom Richards: Sept 17 & 18, 2022		
2	Man days @ 840	1,680.00
2	days Travel & L/O	409.88
1	days pXRF Rental @ 200	200.00
Report & Maps: Craig Kennedy		945.00
	Total Costs	**$4,427.16**

8.00 STATEMENT OF QUALIFICATIONS

I, Craig Kennedy, certify that:

1. I am an independent prospector residing at 2290 Dewolfe Avenue, Kimberley, BC.

2. I have been actively prospecting in the East and West Kootenays district of BC for the past 41 years and have made my living prospecting for the past 29 years.

3. I have been employed as a professional prospector by major and junior mineral exploration companies.

4. I own and maintain mineral claims in BC and have optioned numerous claims to various exploration companies.

Craig Kennedy

APPENDIX 1

Spreadsheet for

MEACHEN BEND LIMONITE FIELD STATIONS
INDIVIDUAL VALUES and
AVERAGE VALUES PER STATION FOR Cu, Zn, Pb, As
IN PPM

MEACHEN BEND (MB) GROUPINGS AND AVERAGES PER STATION IN PPM											
Description Codes: BRN= Brown, ORG= Orange, BLACK= Black Type: Q=Quartz, Mag=Magnetite, L=Limonite											
Site No.	**Sample**	**XRF No.**	**E**	**N**	**Cu**	**Zn**	**Pb**	**As**	**Type**	**Comments**	**Notes**
	STD	4971	x	x	708	74	29	21			STANDARD
MB-1	1034Aa	4972	545204	5489360	4	27	13	4	Q	RED BRN	gabbro
MB-1	1034Ab	4973	545204	5489360	32	43	7	12	Q	BRN	gabbro
MB-1	1034B	4974	545204	5489360	145	65	197	250	L	BRN on epid	gabbro
MB-1	1034C	4975	545204	5489360	125	54	46	118	L	BRN on epid	gabbro
MB-1	1034D	4976	545204	5489360	277	73	10	18	L	BRN	gabbro
MB-1	1024E	4977	545204	5489360	107	97	7	156	Q	BRN spots	gabbro
MB-1	1034Fa	4978	545204	5489360	4	12	11	4	Q	BRN BLACK	gabbro
MB-1	1034Fb	4979	545204	5489360	54	69	27	29	L	BRN sooty	gabbro
MB-1	1034G	4980	545204	5489360	374	46	35	119	L	BRN epid	gabbro
MB-1	1034H	4981	545204	5489360	30	83	9	4	Q	ben ORG indigenous	gabbro
MB-1	1034I	4982	545204	5489360	81	27	25	51	L	BRN ORG	gabbro
MB-1	1034j	4983	545204	5489360	1025	24	86	150	Q	BRN	gabbro
MB-1	1034K	4984	545204	5489360	113	85	4	60	Q	BRN BLACK	gabbro
MB-1	1034L	4985	545204	5489360	393	55	496	231	L	ORG BRN	gabbro
MB-1	1034M	4986	545204	5489360	243	58	735	535	L	BRN epid	gabbro
MB-1	1034N	4987	545204	5489360	1213	95	1573	80	L	RED BRN	gabbro
MB-1	1034O	4988	545204	5489360	44	51	10	22	Q	RED BRN	gabbro
MB-1	1034P	4989	545204	5489360	193	95	23	114	Mag	BRN	gabbro
MB-1	1034Q	4990	545204	5489360	33	26	14	23	L	BRN wk	gabbro
MB-1	1034R	4991	545204	5489360	134	24	38	591	Q	BRN patchy	gabbro
MB-1	1034S	4992	545204	5489360	41	115	21	36	Q	BRN specks	gabbro
MB-1	1034T	4993	545204	5489360	91	31	48	45	Q	DK BRN	gabbro
MB-1	1034Ua	4994	545204	5489360	193	127	294	196	L	BRN	gabbro
MB-1	1034Ub	4995	545204	5489360	89	96	58	59	L	BRN slickenside	gabbro
MB-1	1034V	4996	545204	5489360	201	128	48	22	L	BRN	gabbro

MEACHEN BEND (MB) GROUPINGS AND AVERAGES PER STATION IN PPM											
Description Codes: BRN= Brown, ORG= Orange, BLACK= Black Type: Q=Quartz, Mag=Magnetite, L=Limonite											
Site No.	**Sample**	**XRF No.**	**E**	**N**	**Cu**	**Zn**	**Pb**	**As**	**Type**	**Comments**	**Notes**
MB-1	1034W	4997	545204	5489360	22	18	7	4	Q	BRN	gabbro
MB-1	1034X	4998	545204	5489360	253	96	46	161	L	ORG BRN	gabbro
MB-1	1034Y	4999	545204	5489360	112	55	136	50	L	BRN YELLOW	gabbro
MB-1	1034Z	5000	545204	5489360	223	117	23	33	L	epid, v rare BRN	gabbro
MB-1	1034ZA	5001	545204	5489360	81	109	193	110	L	BRN ORG patchy	gabbro
MB-1	1034ZBa	5002	545204	5489360	107	131	77	29	Q	BRN RED	gabbro
MB-1	1034ZBb	5003	545204	5489360	52	38	15	26	Mag	Mag	gabbro
MB-1	1034ZC	5004	545204	5489360	63	85	54	52	L	BRN	gabbro
MB-1	1034ZD	5005	545204	5489360	4	11	6	4	Q	BRN light	gabbro
MB-1	1034ZE	5006	545204	5489360	4	16	4	4	Q	BRN	gabbro
			AVERAGES		176	65	125	87			
MB-2	1035A	5008	545615	5489501	295	73	172	89	L	BRN wk	gabbro
MB-2	1035B	5009	545615	5489501	1284	118	16	449	L	BRN	gabbro
MB-2	1035C	5010	545615	5489501	1054	78	774	284	L	BRN epid	gabbro
MB-2	1035D	5011	545615	5489501	1060	193	84	186	L	BRN	gabbro
MB-2	1035E	5012	545615	5489501	2686	67	455	129	L	BRN ORG	gabbro
MB-2	1035F	5013	545615	5489501	3010	76	562	641	L	BRN epid	gabbro
MB-2	1035G	5014	545615	5489501	389	60	15	21	Q	BRN ORG	gabbro
MB-2	1035H	5015	545615	5489501	867	20	12	70	Q	BRN ORG	gabbro
MB-2	1035I	5016	545615	5489501	993	104	238	226	L	BRN patchy slick	gabbro
MB-2	1035J	5017	545615	5489501	1475	145	570	837	L	BRN patchy slick	gabbro
MB-2	1035K	5018	545615	5489501	1134	72	17	232	L	BRN YELLOW slicks	gabbro
MB-2	1035L	5019	545615	5489501	251	63	64	71	L	BRN ORG	gabbro
MB-2	1035Ma	5020	545615	5489501	1160	63	52	151	L	BLACK Mn patch	gabbro

MEACHEN BEND (MB) GROUPINGS AND AVERAGES PER STATION IN PPM											
Description Codes: BRN= Brown, ORG= Orange, BLACK= Black Type: Q=Quartz, Mag=Magnetite, L=Limonite											
Site No.	**Sample**	**XRF No.**	**E**	**N**	**Cu**	**Zn**	**Pb**	**As**	**Type**	**Comments**	**Notes**
MB-2	1035Mb	5021	545615	5489501	1193	92	11	505	L	ORG DK spots	gabbro
MB-2	1035N	5022	545615	5489501	122	59	28	41	L	wk BRN slick	gabbro
MB-2	1035O	5023	545615	5489501	1030	76	1177	163	L	BRN ORG	gabbro
MB-2	1035Pa	5024	545615	5489501	3743	245	56	189	L	BRN ORG REDdish	gabbro
MB-2	1035Pb	5025	545615	5489501	5875	89	393	151	L	YELLOW str	gabbro
MB-2	1035Q	5026	545615	5489501	2230	96	109	352	L	BRN patchy slick	gabbro
MB-2	1035R	5027	545615	5489501	2127	360	1081	297	L	BRN ORG REDdish	gabbro
MB-2	1035Sa	5028	545615	5489501	423	87	201	99	L	DK BRN BLACK spots	gabbro
MB-2	1035Sb	5029	545615	5489501	1087	81	213	41	L	BRN w/ YELLOW	gabbro
MB-2	1035T	5030	545615	5489501	863	127	44	50	Q	BRN	gabbro
MB-2	1035U	5031	545615	5489501	3371	100	31	27	Q	DK BRN	gabbro
MB-2	1035V	5032	545615	5489501	2055	96	310	151	L	YELLOW ORG powder	gabbro
MB-2	1035X	5033	545615	5489501	478	35	174	215	L	BRN BRN	gabbro
MB-2	1035Z	5034	545615	5489501	2744	95	233	105	L	YELLOW ORG	gabbro
MB-2	1035ZA	5035	545615	5489501	2292	120	292	2381	L	BRN patchy	gabbro
MB-2	1035ZB	5036	545615	5489501	645	53	166	52	L	BRN ORG	gabbro
MB-2	1035ZC	5037	545615	5489501	2798	24	1475	325	Q	BRN BLACK	gabbro
MB-2	1035ZD	5038	545615	5489501	181	27	155	58	Q	YELLOW BRN	gabbro
MB-2	1035ZE	5039	545615	5489501	451	30	386	109	Q	BRN ORG	gabbro
MB-2	1035ZG	5040	545615	5489501	1548	284	105	366	L	BRN ORG patchy	gabbro
MB-2	1035ZH	5041	545615	5489501	286	35	342	109	L	DK BRN slicks	gabbro
MB-2	1035ZI	5042	545615	5489501	1%	96	1.30%	426	Q	str BRN YELLOW ind	gabbro
MB-2	1035ZJ	5043	545615	5489501	74	28	158	33	L	BRN ORG	gabbro
MB-2	1035ZK	5044	545615	5489501	2323	36	6253	315	Q	ORG BRN	gabbro

MEACHEN BEND (MB) GROUPINGS AND AVERAGES PER STATION IN PPM											
Description Codes: BRN= Brown, ORG= Orange, BLACK= Black Type: Q=Quartz, Mag=Magnetite, L=Limonite											
Site No.	**Sample**	**XRF No.**	**E**	**N**	**Cu**	**Zn**	**Pb**	**As**	**Type**	**Comments**	**Notes**
MB-2	1035ZL	5045	545615	5489501	6220	112	5517	126	Q	DK BRN	gabbro
MB-2	1035ZM	5046	545615	5489501	605	72	246	46	Q	BRN ORG	gabbro
MB-2	1035ZN	5047	545615	5489501	7360	313	76	21	L	BRN ORG	gabbro
MB-2	1035ZOa	5048	545615	5489501	741	49	95	33	L	BRN /near cpy	gabbro
MB-2	1035ZOb	5049	545615	5489501	3.80%	265	813	77	L	mala br film	gabbro
			AVERAGES		1039	102	378	223			
MB 3	1036Aa	5050	547878	5491737	349	23	44	x	L	BRN ORG micro bx	gabbro
MB 3	1036Ab	5051	547878	5491737	820	95	32	x	L	BRN purple coat	gabbro
MB 3	1036Ba	5052	547878	5491737	454	33	21	x	L	BRN ORG micro bx	gabbro
MB 3	1036Bb	5053	547878	5491737	207	91	x	9	L	BRN purple	gabbro
MB 3	1036C	5054	547878	5491737	279	50	x	7	L	BRN purple coat	gabbro
MB 3	1036D	5055	547878	5491737	174	75	x	x	L	DK BRN	gabbro
MB 3	1036E	5056	547878	5491737	741	34	x	11	L	DK BRN BLACK	gabbro
MB 3	1036F	5057	547878	5491737	110	37	14	x	L	DK BRN	gabbro
MB 3	1036G	5058	547878	5491737	1531	150	12	x	L	RED BRN patch	gabbro
MB 3	1036H	5059	547878	5491737	157	105	x	x	L	DK BRN	gabbro
MB 3	1036I	5060	547878	5491737	43	16	x	x	L	DK BRN	gabbro
MB 3	1036J	5061	547878	5491737	659	55	x	x	L	DK BRN	gabbro
MB 3	1036K	5062	547878	5491737	136	71	x	17	L	DK BRN	gabbro
MB 3	1036L	5063	547878	5491737	32	173	8	x	L	ORG BRN epid	gabbro
MB 3	1036M	5064	547878	5491737	364	128	x	7	L	YELLOW BRN	gabbro
MB 3	1036N	5065	547878	5491737	1416	41	15	x	L	ORG rd BRN bx	gabbro
MB 3	1036O	5066	547878	5491737	291	93	x	11	L	BLACK	gabbro
MB 3	1036P	5067	547878	5491737	128	64	13	9	L	BRN ORG earthy	gabbro

MEACHEN BEND (MB) GROUPINGS AND AVERAGES PER STATION IN PPM											
Description Codes: BRN= Brown, ORG= Orange, BLACK= Black Type: Q=Quartz, Mag=Magnetite, L=Limonite											
Site No.	**Sample**	**XRF No.**	**E**	**N**	**Cu**	**Zn**	**Pb**	**As**	**Type**	**Comments**	**Notes**
MB 3	1036Q	5068	547878	5491737	846	29	x	11	L	RED BRN epid	gabbro
MB 3	1036R	5069	547878	5491737	3460	5	11	x	L	RED BRN epid	gabbro
MB 3	1036S	5070	547878	5491737	992	195	49	39	L	BRN minORG patches	gabbro
MB 3	1036T	5071	547878	5491737	105	23	13	x	L	DK BRN str	gabbro
MB 3	1036U	5072	547878	5491737	501	50	x	16	L	ORG YELLOW	gabbro
MB 3	1036V	5073	547878	5491737	300	73	16	19	L	DK BRN	gabbro
			AVERAGES		504	71	12	8			

APPENDIX 2

MAPS

1. Field Sample Location 1:10,000
2. Arsenic Average in Limonites 1:10,000
3. Copper Average in Limonites 1:10,000
4. Lead Average in Limonites 1:10,000
5. Zinc Average in Limonites 1:10,000

MEACHEN BEND 2022
PXRF SAMPLE MAP

SITE LOCATIONS

1:10,000

- MEACHEN BEND 2022 XRF

MB-01
MB-02
MB-03

544000
545000
546000
547000
548000
549000
5492000
5491000
5490000
5489000

0 500 1,000 m

MEACHEN BEND 2022
PXRF SAMPLE MAP
As in ppm
1:10,000
MEACHEN BEND 2022 XRF

544000
545000
546000
547000
548000
549000
5492000
5491000
5490000
5489000

8
233
87

1072425
1069925
1074009
1089264
1089307
1093155
1041043105787
1051052

0
500
1,000 m

MEACHEN BEND 2022
PXRF SAMPLE MAP
Cu in ppm
1:10,000
MEACHEN BEND 2022 XRF

544000
545000
546000
547000
548000
549000
5492000
5491000
5490000
5489000

504
1039
176

1072425
1069925
1074009
1089264
1089307
1093155
1041043105787

0
500
1,000 m

MEACHEN BEND 2022
PXRF SAMPLE MAP
Pb in ppm
1:10,000
MEACHEN BEND 2022 XRF

544000
545000
546000
547000
548000
549000
5492000
5491000
5490000
5489000

12
378
125

1072425
1069925
1074009
1089264
1089307
1093155
1041043105787

0
500
1,000 m

MEACHEN BEND 2022
PXRF SAMPLE MAP
Zn in ppm
1:10,000
MEACHEN BEND 2022 XRF

544000
545000
546000
547000
548000
549000
5492000
5491000
5490000
5489000

71
102
65

1072425
1069925
1074009
1089264
1089307
1093155
1041043105787
1051052

0
500
1,000 m