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# **2018 PROSPECTING REPORT: BLOOM LAKE PROPERTY**

MOREL TOWNSHIP  
LARDER LAKE MINING DIVISION, ONTARIO, CANADA

**WINMAR RESOURCES INC.**  
OFFICE 7, LEVEL 10  
418A ELIZABETH ST.  
SURRY HILLS, NSW AUSTRALIA

January 8<sup>th</sup>, 2019

Prepared By:

JOERG M. KLEINBOECK, P.GEO.

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Map 1: Sample Locations and Geology

## **EXECUTIVE SUMMARY**

JMK Exploration Consulting was requested by Winmar Resources Ltd. (“Winmar”) to complete a technical report for assessment purposes on their recently completed prospecting program on the Bloom Lake Property (“Property”).

The Property is situated approximately 140 km north-northeast of Sudbury, Ontario and approximately 14 km northeast of the Town of Gowganda, Ontario (Figure 1). The Property is bounded by UTM coordinates 522470 E to 525306 E, and 5288067 N to 5293197 N (NAD83, Z17N), and is covered by National Topographic System (NTS) map sheet 41P/10 and 41P/15. The Property consists of 51 unpatented mining claims, covering an area of approximately 916.9 ha (Table 1, Figure 2).

In January of 2018, Winmar purchased the Bloom Lake Property from CBLT Inc. Winmar owns the Property 100% subject to a 2% NSR.

Historical work on the Property dates to 1907 when the Ontario Gowganda-Cobalt Consolidated Company Ltd., whose name changed in 1910 to Bishop Silver Mines of Canada Ltd., discovered a 6 to 8-inch calcite vein on the west shore of Bloom Lake, followed by numerous other veins that were prospected by trenching and pitting. By 1924, an adit was driven into the hillside along the shoreline of Bloom Lake, as well as a 50 ft deep shaft was sunk west of the adit. During the 1950’s and 1960’s, a group of several prospectors and junior mining companies held the claims and completed prospecting, trenching, and limited diamond drilling on the Property. In 1998, Joseph Crossley completed limited prospecting on the Property in the vicinity of the historical adit and shaft.

From June 5<sup>th</sup> to 14<sup>th</sup>, 2018, a reconnaissance prospecting program was completed that consisted of locating historical trenches, adits, shafts, and drill holes on the Property. A total of 33 samples were collected from both bedrock and from loose material proximal to historical trenches, adits, and shafts. Sample highlights include:

- Sample 853028 returned 6.84 % Co, 0.422 g/t Au, 0.58% Cu, and 1.56 % Ni
- Sample 853024 returned 2.02% Co, 0.026 g/t Au, 0.06% Cu, and 0.35% Ni
- Sample 853044 returned 1.50% Co, 0.13 g/t Au, 8.94% Cu, and 0.10% Ni

Further work on the Property is recommended. An airborne geophysical survey should be considered, followed by additional prospecting and detailed geological (structural) mapping on the Property prior to any consideration for diamond drilling.

## **1.0 INTRODUCTION**

JMK Exploration Consulting was requested by Winmar to complete a technical report for assessment purposes on their recently completed prospecting program on the Bloom Lake Property. From June 5<sup>th</sup> to 14<sup>th</sup>, 2018, Winmar completed a reconnaissance prospecting program that consisted of locating historical trenches, adits, shafts, and drill holes on the Property. A total of 35 samples were collected from both bedrock and from loose material proximal to historical trenches, adits, and shafts.

## **2.0 PROPERTY DETAILS**

### **2.1 Location and Access**

The Property is situated approximately 140 km north-northeast of Sudbury, Ontario and approximately 14 km northeast of the Town of Gowganda, Ontario (Figure 1).

Access to the Property was by boat through Bloom Lake. An atv trail branching off of the Chown Road, located east of Long Point Lake, and north of highway 560, provides access to the Wigwam River where a boat can be used to access Bloom Lake to the north.

### **2.2 Topography and Vegetation**

The topography of the Property is characterized by steep ridges and narrow valleys that are generally orientated north-south. Forest cover is a combination of jackpine, spruce, birch, and cedar in the areas of lower relief. Bloom Lake has an abundance water for drilling purposes.

### **2.3 Claims**

The Property is bounded by UTM coordinates 522470 E to 525306 E, and 5288067 N to 5293197 N (NAD83, Z17N), and is covered by National Topographic System (NTS) map sheet 41P/10 and 41P/15. The Property consists of 51 unpatented mining claims, covering an area of approximately 916.9 ha (Table 1, Figure 2).

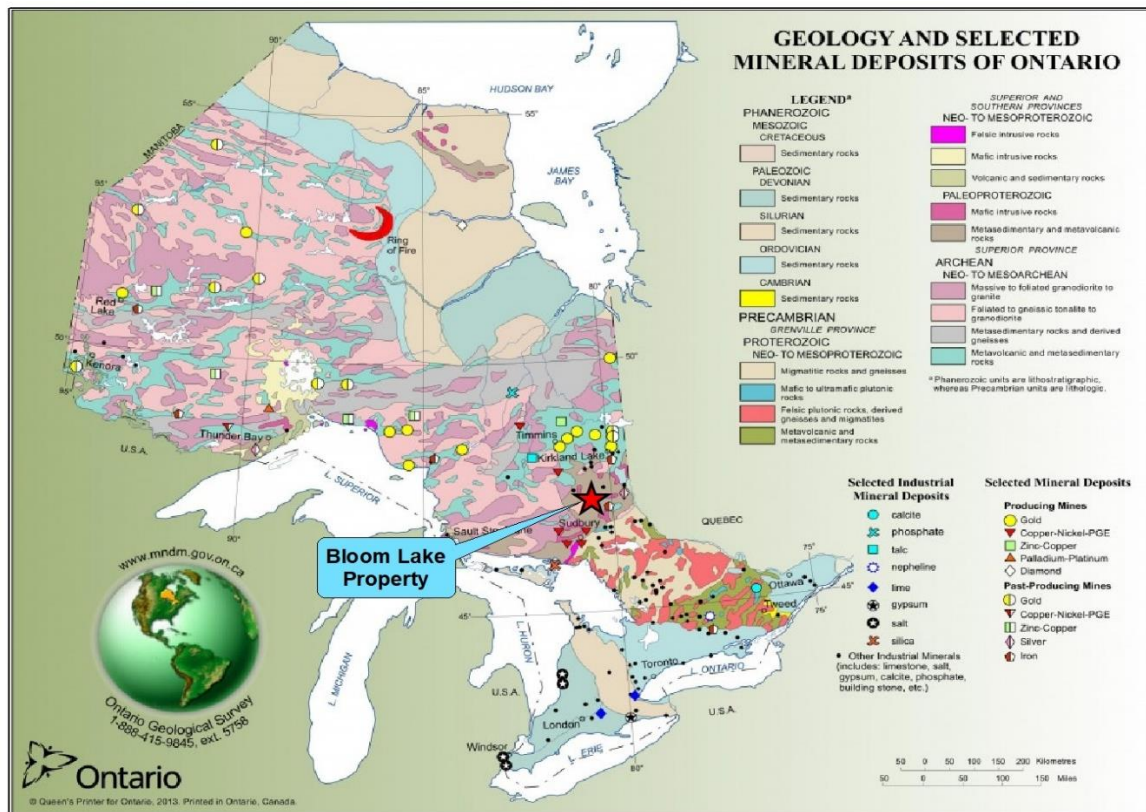


Figure 1: Location of the Bloom Lake Property

### 3.0 PREVIOUS WORK

A brief summary of the past exploration work completed in the area of interest that is described in this report is provided below.

Historical work on the Property dates to 1907 when the Ontario Gowganda-Cobalt Consolidated Company Ltd., whose name changed in 1910 to Bishop Silver Mines of Canada Ltd., discovered a 6 to 8-inch calcite vein on the west shore of Bloom Lake, followed by numerous other veins that were prospected by trenching and pitting. By 1924, an adit was driven into the hillside along the shoreline of Bloom Lake, as well as a 50 ft deep shaft was sunk west of the adit. During the 1950's, a group of several prospectors completed prospecting, geological mapping, and limited diamond drilling.

Records are incomplete for this work, and it is suggested that the Resident Geologists office be visited in Kirkland Lake to compile all of the historical work. From 1954 to 1957, several phases of diamond drilling were completed by Pollard, Johnstone, and Barnes, the owners of the claims at the time. Several phases of diamond drilling were completed; however the logs are incomplete. The logs that are available are often incomplete with regard to reference to a drill hole number, date, etc. Thomson (1959), the Resident Geologist for the Ontario Department of Mines at the time, states that “18 diamond drill holes (all under 50 ft in length) drilled to intersect veins gives information of negligible value”. The author assumes that the comment is made due to the fact the drill logs are quite general and non-descriptive with no assays provided. In 1963, Solid Silver Mines Ltd. held the claims and completed line cutting, prospecting, and geological mapping. Drilling was recommended, but to the authors knowledge, not completed. In 1998, Joseph Crossley completed limited prospecting on the Property in the vicinity of the historical adit and shaft. Silver and cobalt values of up to 603.0 g/t and 0.898 % respectively were obtained from historical trenches.



Table 1: Claim Details of the Bloom Lake Property.

Legacy Claim Id	Township / Area	Tenure ID	Tenure Type	Anniversary Date	Work Required	Work Applied	Total Reserve
4286180	MOREL	104745	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	335540	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286180	MOREL	325074	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	307415	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	307414	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	295314	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	287182	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	248051	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	240761	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	228599	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286180	MOREL	228598	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	228597	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	220647	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	220646	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	220645	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	191346	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	191345	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	191344	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	174026	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	174025	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	171868	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	155882	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	139341	Single Cell Mining Claim	2019-03-23	400	0	0
4286180	MOREL	127878	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286180	MOREL	127877	Single Cell Mining Claim	2019-03-23	400	0	0
4286181	MOREL	139341	Single Cell Mining Claim	2019-03-23	400	0	0
4286181	MOREL	335540	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286181	MOREL	287806	Single Cell Mining Claim	2019-03-23	400	0	0
4286181	MOREL	270531	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286181	MOREL	263279	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286181	MOREL	251794	Single Cell Mining Claim	2019-03-23	400	0	0
4286181	MOREL	251793	Single Cell Mining Claim	2019-03-23	400	0	0
4286181	MOREL	251792	Single Cell Mining Claim	2019-03-23	400	0	0
4286181	MOREL	243759	Single Cell Mining Claim	2019-03-23	400	0	0
4286181	MOREL	221267	Single Cell Mining Claim	2019-03-23	400	0	0
4286181	MOREL	221266	Single Cell Mining Claim	2019-03-23	400	0	0
4286181	MOREL	192000	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286181	MOREL	185034	Single Cell Mining Claim	2019-03-23	400	0	0
4286181	MOREL	175693	Single Cell Mining Claim	2019-03-23	400	0	0
4286181	MOREL	171868	Single Cell Mining Claim	2019-03-23	400	0	0
4286181	MOREL	148437	Single Cell Mining Claim	2019-03-23	400	0	0
4286182	HAULTAIN	127996	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286182	HAULTAIN	172508	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286182	HAULTAIN	229223	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286182	HAULTAIN	287807	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286182	HAULTAIN	287808	Single Cell Mining Claim	2019-03-23	400	0	0
4286182	HAULTAIN	295940	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286182	HAULTAIN	308045	Single Cell Mining Claim	2019-03-23	400	0	0
4286182	HAULTAIN	308046	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286182	HAULTAIN	336173	Single Cell Mining Claim	2019-03-23	200	0	0
4286182	HAULTAIN,MOREL	174664	Single Cell Mining Claim	2019-03-23	200	0	0
4286182	HAULTAIN,MOREL	248708	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286182	HAULTAIN,MOREL	308044	Single Cell Mining Claim	2019-03-23	400	0	0
4286182	HAULTAIN,MOREL	325202	Single Cell Mining Claim	2019-03-23	200	0	0
4286182	MOREL	192000	Boundary Cell Mining Claim	2019-03-23	200	0	0
4286182	MOREL	221266	Single Cell Mining Claim	2019-03-23	400	0	0
4286182	MOREL	221267	Single Cell Mining Claim	2019-03-23	400	0	0
4286182	MOREL	287806	Single Cell Mining Claim	2019-03-23	400	0	0

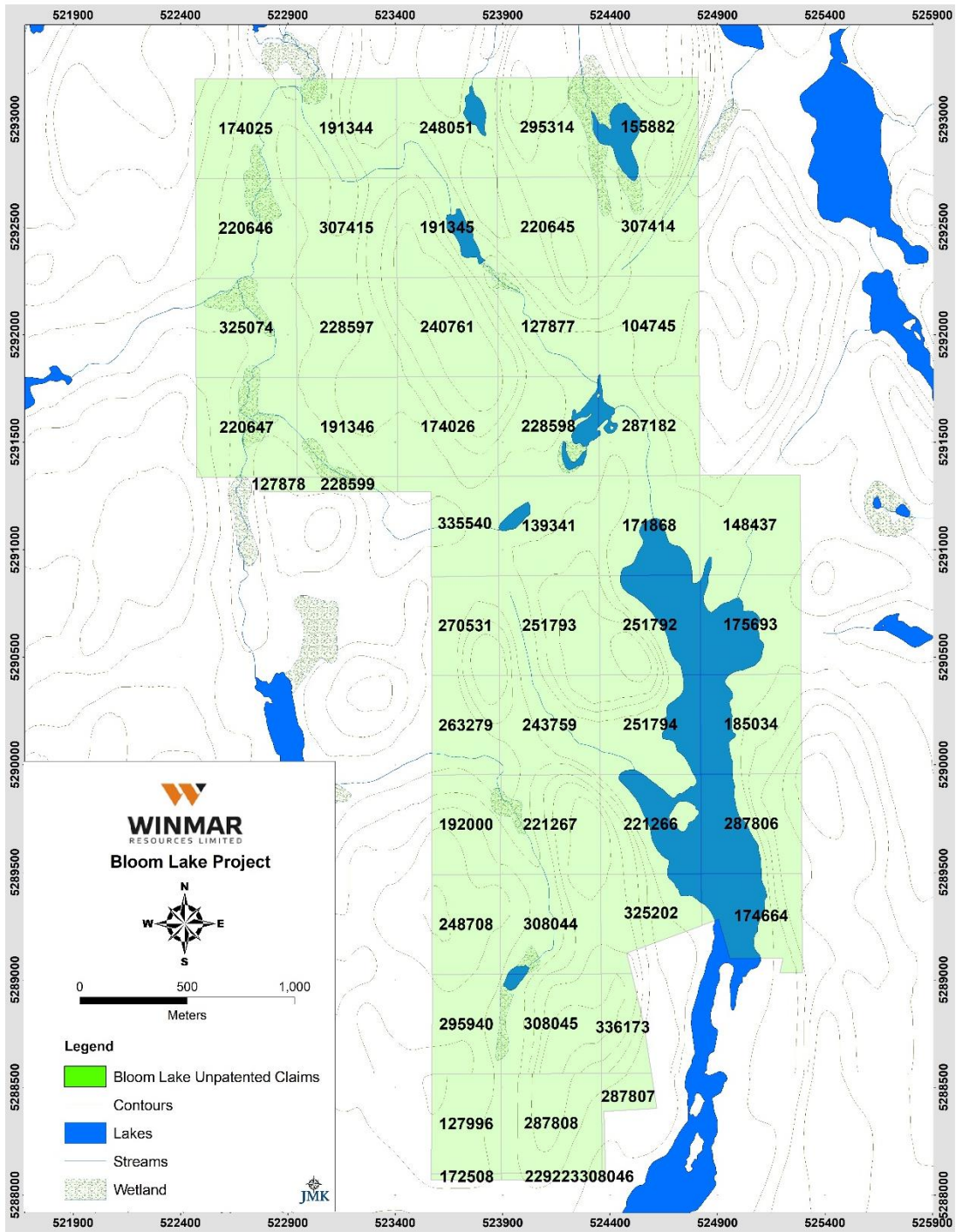


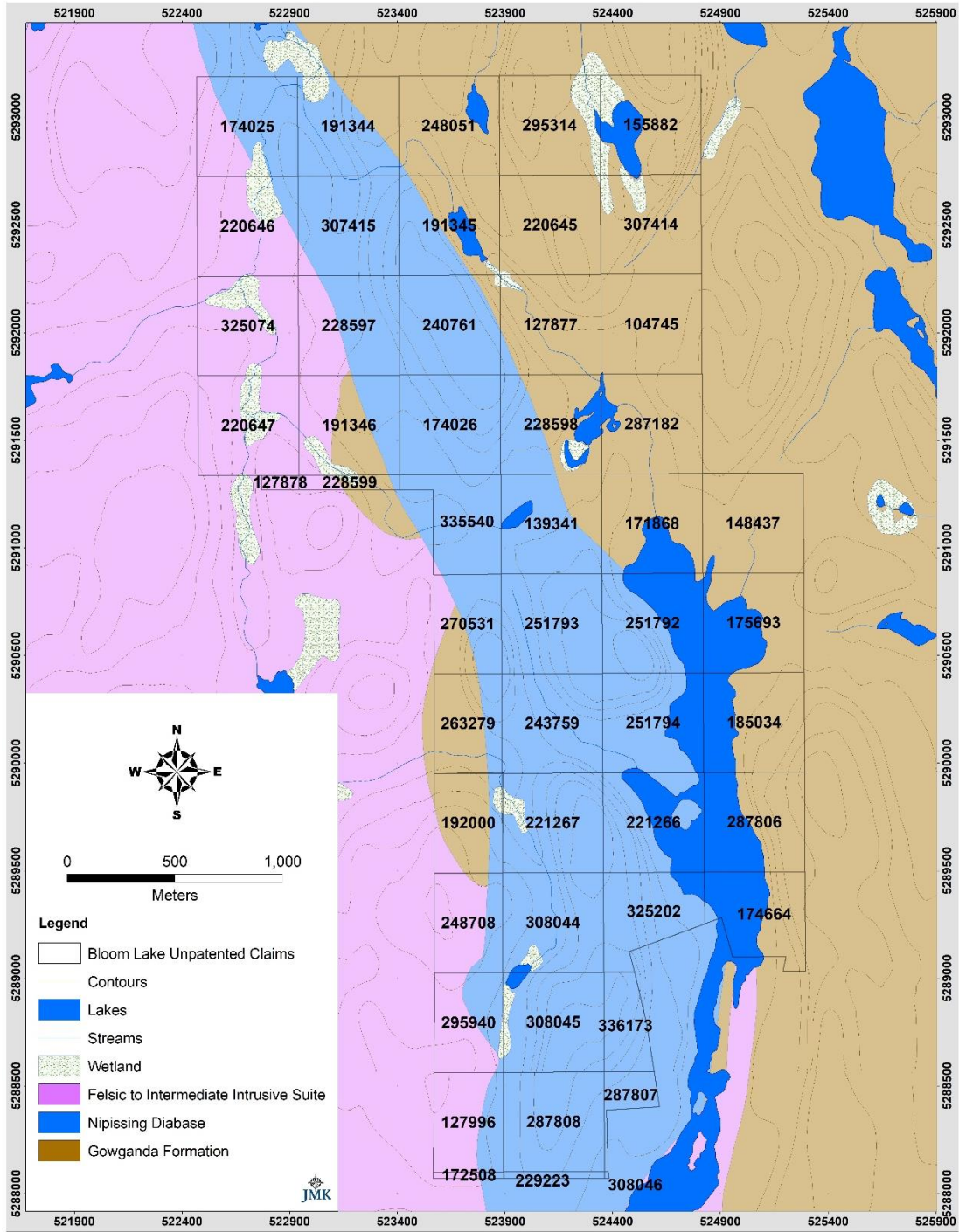
Figure 2: Tenure of the Bloom Lake Property

## **4.0 GEOLOGY**

### **4.1 Property Geology**

The Bloom Lake Property is predominantly underlain by Huronian sedimentary rocks of Proterozoic age that were deposited between 2,220 and 2,500 Ma, and overlie Algoman Granites (~2,500 Ma). The Huronian sedimentary rocks present on the Property belong to the Gowganda Formation, and include conglomerates, quartzites, sandstones, and siltstones. Both rock types have been intruded by gabbroic dykes and sills dated at 2,219 Ma, commonly referred to as Nipissing Diabase. On the Property, the Nipissing Diabase, as suggested in historical reports, dips approximately 20 to 30 degrees to the east, with the upper part of the sill located on the west shoreline of Bloom Lake.

Strong north-south faulting occurs on the Property, with weaker tangential fractures generally orientated east-northeast, and northeast. Mineralization consisting of cobalt minerals (smaltite?), silver, bornite, chalcopyrite, galena, and to a lesser extent gold, occurs within calcite and quartz veins and fractures hosted in the Nipissing Diabase. Erythrite, commonly known as “cobalt bloom”, is common within the historical pits and trenches. Mineralized veins and fractures are preferentially orientated east-northeast.



**Figure 3: Property Geology (after MRD 282).**

## **5.0 2018 PROSPECTING PROGRAM**

### **5.1 Description of Work**

From June 5<sup>th</sup> to 14<sup>th</sup>, 2018, JMK Exploration Consulting completed a reconnaissance prospecting program that consisted of locating historical trenches, adits, shafts, and drill holes on the Property. A total of 33 samples were collected from both bedrock and loose material located proximal to historical trenches, adits, and shafts.

Results are provided in Table 2. Sample descriptions are provided in Appendix II, and the assay certificate for the samples collected during this program is provided in Appendix III. Field descriptions are provided in Appendix IV, and miscellaneous photographs are provided in Appendix V. Map 1, located in the back pocket of this report, displays the sample locations. Significant results from the reconnaissance prospecting program include:

- Sample 853028 returned 6.84 % Co, 0.422 g/t Au, 0.58% Cu, and 1.56 % Ni
- Sample 853024 returned 2.02% Co, 0.026 g/t Au, 0.06% Cu, and 0.35% Ni
- Sample 853044 returned 1.50% Co, 0.13 g/t Au, 8.94% Cu, and 0.10% Ni

Table 2: 2018 Reconnaissance Prospecting Results.

Sample	Ag_ppm	Au_gpt	Pd_gpt	Pt_gpt	Co_per	Cu_per	Ni_per
853019	<0.333	<0.0133	<0.0133	<0.0133	0.074	0.18	<0.06
853020	<0.333	<0.0133	<0.0133	<0.0133	0.095	0.16	<0.06
853021	<0.333	<0.0133	<0.0133	<0.0133	0.098	0.34	<0.06
853022	<0.333	0.066	<0.0133	<0.0133	0.36	<0.06	0.16
853023	<0.333	0.059	<0.0133	<0.0133	0.062	0.861	<0.06
853024	<0.333	0.026	<0.0133	<0.0133	2.02	0.057	0.35
853025	<0.333	<0.0133	<0.0133	<0.0133	<0.01	1.95	<0.06
853026	<0.333	<0.0133	<0.0133	<0.0133	<0.01	<0.06	<0.06
853027	<0.333	<0.0133	<0.0133	<0.0133	<0.01	<0.06	<0.06
853028	<0.333	0.422	<0.0133	<0.0133	6.84	0.58	1.56
853029	<0.333	<0.0133	<0.0133	<0.0133	0.018	<0.06	<0.06
853030	<0.333	<0.0133	<0.0133	<0.0133	<0.01	<0.06	<0.06
853031	<0.333	<0.0133	<0.0133	<0.0133	<0.01	<0.06	<0.06
853032	<0.333	<0.0133	<0.0133	<0.0133	0.054	<0.06	<0.06
853033	<0.333	<0.0133	<0.0133	<0.0133	0.088	<0.06	<0.06
853034	<0.333	0.222	<0.0133	<0.0133	0.212	0.49	<0.06
853035	<0.333	<0.0133	<0.0133	<0.0133	0.47	<0.06	0.29
853036	<0.333	<0.0133	<0.0133	<0.0133	0.288	5.34	<0.06
853037	<0.333	<0.0133	<0.0133	<0.0133	0.062	1.07	<0.06
853038	<0.333	0.035	<0.0133	<0.0133	<0.01	<0.06	<0.06
853039	<0.333	0.337	<0.0133	<0.0133	0.789	0.4	0.072
853040	<0.333	0.083	<0.0133	<0.0133	0.274	<0.06	<0.06
853041	<0.333	<0.0133	<0.0133	<0.0133	0.017	0.076	<0.06
853042	<0.333	<0.0133	<0.0133	<0.0133	<0.01	<0.06	<0.06
853043	<0.333	<0.0133	<0.0133	<0.0133	0.086	9.22	<0.06
853044	<0.333	0.13	0.05	<0.0133	1.5	8.94	0.1
853045	<0.333	<0.0133	<0.0133	<0.0133	0.25	5.69	<0.06
853046	<0.333	<0.0133	<0.0133	<0.0133	<0.01	<0.06	<0.06
853047	<0.333	<0.0133	<0.0133	<0.0133	<0.01	<0.06	<0.06
853048	<0.333	0.049	<0.0133	<0.0133	1.16	<0.05	0.25
853049	<0.333	<0.0133	<0.0133	<0.0133	0.051	<0.06	<0.06
853050	<0.333	0.11	<0.0133	<0.0133	<0.01	2.24	<0.06
853051	<0.333	<0.0133	<0.0133	<0.0133	<0.01	0.23	<0.06

## **6.0 CONCLUSIONS & RECOMMENDATIONS**

A total of 33 samples were taken from numerous trenches, pits, adits, and shafts. Most of the samples are considered highly anomalous regarding Co, Cu, and Ni content, confirming the Property is favourable for Co mineralization along the upper contact of the Nipissing Diabase sill. Historically significant Ag values were reported from the mineralized veins as well, however, negligible values were obtained from the recently completed prospecting program.

Further prospecting and detailed geological mapping should be considered as the next logical step. An airborne geophysical survey could be considered followed by a 3D inversion of the magnetic data to gain insight into the upper portion of the sill as it dips at a shallow angle towards the east under Bloom Lake, and thus represents a favourable target for diamond drilling at depth.

## **8.0 REFERENCES**

Ayer, J.A. and Chartrand, J.E. 2011. Geological compilation of the Abitibi greenstone belt; Ontario Geological Survey, Miscellaneous Release—Data 282.

Burrows, A.G. 1926. Gowganda Silver Area (Fourth Report, Revised), Thirty-fifth Annual Report of the Department of Mines, Vol XXXV, Part III.

Crossley, J.D. 1998. Report on the Geology of Claim No. 1200357, Bloom Lake, Morel Township, Kirkland Lake District.

Howe, A.C.A. 1963. Geology of the Solid Silver Mines Limited Haultain and Morel Township Properties, Gowganda Silver Area, Montreal River Mining Division, Ontario.

Ministry of Northern Development and Mines; Geology of Ontario, Assessment File Research Information (AFRI) found at [www.geologyontario.mndm.gov.on.ca](http://www.geologyontario.mndm.gov.on.ca)

Sergiades, A.O. 1968. Silver Cobalt Calcite Vein Deposits of Ontario, Ontario Department of Mines.

Thompson, R. 1959. Report on Pollard Bloom Lake Group, Morel Twp. Montreal River Mining Division. Ontario Department of Mines.



**Appendix I**  
**Statement of Qualifications**

## Statement of Qualifications

I, Joerg Martin Kleinboeck of 147 Lakeside Drive, North Bay, Ontario, do hereby certify that:

I am a graduate of Laurentian University, Sudbury, Ontario with a B.Sc. Geology, 2000, and have been practising my profession as a geologist since.

I am a member with the Association of Professional Geoscientists of Ontario (#1411).

I am a member of the Ontario Prospectors Association (OPA).

I hold no interests in the securities of Winmar Resources Ltd.



The image shows a handwritten signature in cursive that reads "Joerg Kleinboeck". To the right of the signature is a circular professional seal. The seal contains a stylized flower or star symbol in the center. The text around the inner border of the seal reads "PROFESSIONAL GEOSCIENTIST". Below the symbol, it says "JOERG M. KLEINBOECK" and "PRACTISING MEMBER". At the bottom of the seal, it says "1411" and "ONTARIO".

Joerg Martin Kleinboeck  
JMK Exploration Consulting  
January 8<sup>th</sup>, 2019  
North Bay, Ontario

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**Appendix II**  
**Sample Descriptions**

Property	Sample	Easting	Northing	Lithology	Texture	Mineralization	Comments
Bloom Lake	853019	524558	5290478	Gabbro	mg	bloom, 1% cp	Lost Pit, Pit #1
Bloom Lake	853020	524563	5290478	Gabbro	mg	bloom	Lost Pit, Pit #1
Bloom Lake	853021	524562	5290477	Gabbro	mg	bloom, malachite	Lost Pit, Pit #1
Bloom Lake	853022	524597	5290351	Calcite Vein/Gabbro	mg	bloom	CV, proximal to DDH 1954-6,7,8
Bloom Lake	853023	524595	5290349	Calcite Vein/Gabbro	mg	2% cp, bloom	CV
Bloom Lake	853024	524584	5290370	Calcite Vein		bloom	4" wide
Bloom Lake	853025	524564	5290359	Calcite Vein/Gabbro	mg	10% cp, malachite, bloom	taken from muck pile
Bloom Lake	853026	524586	5289628	Gabbro	mg	none visible	taken at entrance of adit
Bloom Lake	853027	524579	5289627	Gabbro	mg	none visible	taken at entrance of adit
Bloom Lake	853028	524581	5289633	Calcite-Quartz Vein		bloom, azurite, finely diss Co	taken at entrance of adit
Bloom Lake	853029	524409	5289729	Gabbro	mg	none visible	Bishop Shaft
Bloom Lake	853030	524405	5289729	Gabbro		none visible	Bishop Shaft
Bloom Lake	853031	524404	5289727	Quartz Vein		none visible	taken from 2" QV near shaft
Bloom Lake	853032	524539	5289733	Calcite-Quartz Vein		bloom	4" thick vein at shaft
Bloom Lake	853033	524540	5289739	Calcite-Quartz Vein		bloom, tr diss cp	taken on south wall of shaft
Bloom Lake	853034	524225	5290065	Unknown		bloom, cp, malachite	swamp pit
Bloom Lake	853035	524233	5290072	Calcite-Quartz Vein		bloom, Galena, Malachite	4" quartz vein
Bloom Lake	853036	524291	5289987	Quartz Vein		cp, malachite, azurite, bloom	sample taken from southern trench
Bloom Lake	853037	524295	5289980	Gabbro		cp (10%), bloom	sample taken from muck pile
Bloom Lake	853038	524280	5289987	Gabbro		cp (1%), malachite, bloom	
Bloom Lake	853039	524291	5289990	Calcite Vein		minor bloom	
Bloom Lake	853040	524311	5289983	Calcite Vein		bloom	pit
Bloom Lake	853041	524469	5289883	Calcite-Quartz Vein		bloom	sample taken on top of adit
Bloom Lake	853042	524465	5289881	Gabbro	m-cg	<1% cp	sample taken from south wall of adit
Bloom Lake	853043	524497	5288563	Quartz Vein		bloom, malachite, azurite	6" thick QV
Bloom Lake	853044	524484	5288570	Gabbro/Quartz Vein		malachite, cp.	
Bloom Lake	853045	524484	5288572	Gabbro/Quartz Vein		bloom, malachite, cp	
Bloom Lake	853046	524500	5288572	Gabbro		none visible	
Bloom Lake	853047	524527	5288553	Gabbro		none visible	
Bloom Lake	853048	524664	5289512	Calcite-Quartz Vein		bloom	unmarked pit
Bloom Lake	853049	524653	5289508	Calcite-Quartz Vein		galena	
Bloom Lake	853050	524588	5289519	Gabbro/Quartz Vein		malachite, cp.	"silver vein" pit
Bloom Lake	853051	524609	5289527	Gabbro/Quartz Vein		2% blebby cp.	"silver vein" pit
Bloom Lake	853052	standard (Oreas 75b)					
Bloom Lake	853053	blank					

## **Appendix III**

### **Assay Certificate**



**TESTMARK Laboratories Ltd.**

*Committed to Quality and Service*

## CERTIFICATE OF ANALYSIS - REVISED

Client: Joerg Kleinboeck  
Company: JMK Exploration Consulting  
Address: 147 Lakeside Dr.  
North Bay, ON, P1A 3E1  
Phone: (416) 890-1232  
Email: jkleinboeck@bell.net

Work Order Number: 348649  
PO #:  
Regulation: Information not provided  
Project #: Bloom Lake  
DWS #:  
Sampled By:

Date Order Received: 6/18/2018  
Arrival Temperature:

Analysis Started: 7/4/2018  
Analysis Completed: 8/2/2018

### WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
853019B	1358146	Other	None		6/18/2018	
853020B	1358147	Other	None		6/18/2018	
853021	1358148	Other	None		6/18/2018	
853022	1358149	Other	None		6/18/2018	
853023	1358150	Other	None		6/18/2018	
853024	1358151	Other	None		6/18/2018	
853025	1358152	Other	None		6/18/2018	
853026	1358153	Other	None		6/18/2018	
853027	1358154	Other	None		6/18/2018	
853028	1358155	Other	None		6/18/2018	
853029	1358156	Other	None		6/18/2018	
853030	1358157	Other	None		6/18/2018	
853031	1358158	Other	None		6/18/2018	
853032	1358159	Other	None		6/18/2018	
853033	1358160	Other	None		6/18/2018	
853034	1358161	Other	None		6/18/2018	
853035	1358162	Other	None		6/18/2018	
853036	1358163	Other	None		6/18/2018	
853037	1358164	Other	None		6/18/2018	



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Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
853038	1358165	Other	None		6/18/2018	
853039	1358166	Other	None		6/18/2018	
853040	1358167	Other	None		6/18/2018	
853041	1358168	Other	None		6/18/2018	
853042	1358169	Other	None		6/18/2018	
853043	1358170	Other	None		6/18/2018	
853044	1358171	Other	None		6/18/2018	
853045	1358172	Other	None		6/18/2018	
853046	1358173	Other	None		6/18/2018	
853047	1358174	Other	None		6/18/2018	
853048	1358175	Other	None		6/18/2018	
853049	1358176	Other	None		6/18/2018	
853050	1358177	Other	None		6/18/2018	
853051	1358178	Other	None		6/18/2018	
853052	1358179	Other	None		6/18/2018	
853053	1358180	Other	None		6/18/2018	

**METHODS AND INSTRUMENTATION**

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Ore-FA-Gravimetric (R99)	Garson	Determination of precious metals by Fire Assay Gravimetric	In House
Ore-FA-ICP-OES (R13.9)	Garson	Determination of precious metals in ore by Fire Assay ICP/OES	In House
Ore-Fus-OES (R7.1)	Garson	Determination of Metals in Ore Na <sub>2</sub> O <sub>2</sub> Fusion and ICPOES	In House

**REPORT COMMENTS**

Report revised to report gold results for Samples 1358146-1358148 and 1358180. Please note sample 1358179 had insufficient sample volume for Fire Assay analysis with ICP-OES finish. 08/02/18 MB



**TESTMARK Laboratories Ltd.**

*Committed to Quality and Service*

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JMK Exploration Consulting

Work Order Number: 348649

This report has been approved by:

Khaled Omari, Ph.D.  
Laboratory Director





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**WORK ORDER RESULTS**

Sample Description	853019B		853020B		853021		853022		
Lab ID	1358146		1358147		1358148		1358149		
Ore-Fire Assay (Gravimetric)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Silver	<0.333	0.333	<0.333	0.333	<0.333	0.333	<0.333	0.333	ppm
Sample Description	853023		853024		853025		853026		
Lab ID	1358150		1358151		1358152		1358153		
Ore-Fire Assay (Gravimetric)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Silver	<0.333	0.333	<0.333	0.333	<0.333	0.333	<0.333	0.333	ppm
Sample Description	853027		853028		853029		853030		
Lab ID	1358154		1358155		1358156		1358157		
Ore-Fire Assay (Gravimetric)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Silver	<0.333	0.333	<0.333	0.333	<0.333	0.333	<0.333	0.333	ppm
Sample Description	853031		853032		853033		853034		
Lab ID	1358158		1358159		1358160		1358161		
Ore-Fire Assay (Gravimetric)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Silver	<0.333 [<0.333]	0.333	<0.333	0.333	<0.333	0.333	<0.333	0.333	ppm
Sample Description	853035		853036		853037		853038		
Lab ID	1358162		1358163		1358164		1358165		
Ore-Fire Assay (Gravimetric)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Silver	<0.333	0.333	<0.333	0.333	<0.333	0.333	<0.333	0.333	ppm



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Sample Description	853039		853040		853041		853042		
Lab ID	1358166		1358167		1358168		1358169		
Ore-Fire Assay (Gravimetric)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Silver	<0.333	0.333	<0.333	0.333	<0.333	0.333	<0.333	0.333	ppm
Sample Description	853043		853044		853045		853046		
Lab ID	1358170		1358171		1358172		1358173		
Ore-Fire Assay (Gravimetric)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Silver	<0.333	0.333	<0.333	0.333	<0.333	0.333	<0.333	0.333	ppm
Sample Description	853047		853048		853049		853050		
Lab ID	1358174		1358175		1358176		1358177		
Ore-Fire Assay (Gravimetric)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Silver	<0.333	0.333	<0.333	0.333	<0.333	0.333	<0.333 [<0.333]	0.333	ppm
Sample Description	853051		853053						
Lab ID	1358178		1358180						
Ore-Fire Assay (Gravimetric)	Result	MDL	Result	MDL	Units				
Silver	<0.333	0.333	<0.333	0.333	ppm				
Sample Description	853019B		853020B		853021		853022		
Lab ID	1358146		1358147		1358148		1358149		
Ore-Fire Assay (ICP)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Gold	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	0.066	0.0133	g/T
Palladium	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Platinum	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T



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Sample Description	853023		853024		853025		853026		
Lab ID	1358150		1358151		1358152		1358153		
Ore-Fire Assay (ICP)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Gold	0.059	0.0133	0.026	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Palladium	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Platinum	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Sample Description	853027		853028		853029		853030		
Lab ID	1358154		1358155		1358156		1358157		
Ore-Fire Assay (ICP)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Gold	<0.0133	0.0133	0.422	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Palladium	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Platinum	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Sample Description	853031		853032		853033		853034		
Lab ID	1358158		1358159		1358160		1358161		
Ore-Fire Assay (ICP)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Gold	<0.0133 [<0.0133]	0.0133	<0.0133	0.0133	<0.0133	0.0133	0.222	0.0133	g/T
Palladium	<0.0133 [<0.0133]	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Platinum	<0.0133 [<0.0133]	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Sample Description	853035		853036		853037		853038		
Lab ID	1358162		1358163		1358164		1358165		
Ore-Fire Assay (ICP)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Gold	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	0.035	0.0133	g/T
Palladium	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Platinum	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T



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Sample Description	853039		853040		853041		853042		
Lab ID	1358166		1358167		1358168		1358169		
Ore-Fire Assay (ICP)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Gold	0.337	0.0133	0.083	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Palladium	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Platinum	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Sample Description	853043		853044		853045		853046		
Lab ID	1358170		1358171		1358172		1358173		
Ore-Fire Assay (ICP)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Gold	<0.0133	0.0133	0.13	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Palladium	<0.0133	0.0133	0.05	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Platinum	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	g/T
Sample Description	853047		853048		853049		853050		
Lab ID	1358174		1358175		1358176		1358177		
Ore-Fire Assay (ICP)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Gold	<0.0133	0.0133	0.049	0.0133	<0.0133	0.0133	0.11 [<0.0133]	0.0133	g/T
Palladium	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133 [<0.0133]	0.0133	g/T
Platinum	<0.0133	0.0133	<0.0133	0.0133	<0.0133	0.0133	<0.0133 [<0.0133]	0.0133	g/T
Sample Description	853051		853053						
Lab ID	1358178		1358180						
Ore-Fire Assay (ICP)	Result	MDL	Result	MDL	Units				
Gold	<0.0133	0.0133	<0.0133	0.0133	g/T				
Palladium	<0.0133	0.0133	<0.0133	0.0133	g/T				
Platinum	<0.0133	0.0133	<0.0133	0.0133	g/T				



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Sample Description	853019B		853020B		853021		853022		
Lab ID	1358146		1358147		1358148		1358149		
Ore-Na2O2 Fusion (ICP/OES)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Arsenic	0.0686	0.001	0.0936 [0.11]	0.001	0.0992	0.001	0.618	0.001	%
Bismuth	<0.06	0.06	0.061 [0.073]	0.06	<0.06	0.06	<0.06	0.06	%
Cobalt	0.074	0.01	0.095 [0.099]	0.01	0.098	0.01	0.36	0.01	%
Copper	0.18	0.06	0.16 [0.16]	0.06	0.34	0.06	<0.06	0.06	%
Lead	<0.03	0.03	<0.03 [<0.03]	0.03	<0.03	0.03	<0.03	0.03	%
Nickel	<0.06	0.06	<0.06 [<0.06]	0.06	<0.06	0.06	0.16	0.06	%
Zinc	<0.06	0.06	<0.06 [<0.06]	0.06	<0.06	0.06	<0.06	0.06	%

Sample Description	853023		853024		853025		853026		
Lab ID	1358150		1358151		1358152		1358153		
Ore-Na2O2 Fusion (ICP/OES)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Arsenic	0.0845	0.001	3.4	0.001	0.0189	0.001	0.0167	0.001	%
Bismuth	<0.06	0.06	0.052	0.05	<0.06	0.06	<0.06	0.06	%
Cobalt	0.062	0.01	2.02	0.01	<0.01	0.01	<0.01	0.01	%
Copper	0.861	0.06	0.057	0.05	1.95	0.06	<0.06	0.06	%
Lead	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	%
Nickel	<0.06	0.06	0.35	0.05	<0.06	0.06	<0.06	0.06	%
Zinc	<0.06	0.06	<0.05	0.05	<0.06	0.06	<0.06	0.06	%

Sample Description	853027		853028		853029		853030		
Lab ID	1358154		1358155		1358156		1358157		
Ore-Na2O2 Fusion (ICP/OES)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Arsenic	0.0184	0.001	8.74	0.001	0.0196	0.001	0.006	0.001	%
Bismuth	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	%



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Sample Description	853027		853028		853029		853030		
Lab ID	1358154		1358155		1358156		1358157		
Ore-Na2O2 Fusion (ICP/OES)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Cobalt	<0.01	0.01	6.84	0.01	0.018	0.01	<0.01	0.01	%
Copper	<0.06	0.06	0.58	0.06	<0.06	0.06	<0.06	0.06	%
Lead	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	%
Nickel	<0.06	0.06	1.56	0.06	<0.06	0.06	<0.06	0.06	%
Zinc	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	%

Sample Description	853031		853032		853033		853034		
Lab ID	1358158		1358159		1358160		1358161		
Ore-Na2O2 Fusion (ICP/OES)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Arsenic	0.0137	0.001	0.0648	0.001	0.0654	0.001	0.312	0.001	%
Bismuth	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	%
Cobalt	<0.01	0.01	0.054	0.01	0.088	0.01	0.212	0.01	%
Copper	<0.06	0.06	<0.06	0.06	<0.06	0.06	0.49	0.06	%
Lead	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	%
Nickel	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	%
Zinc	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	%

Sample Description	853035		853036		853037		853038		
Lab ID	1358162		1358163		1358164		1358165		
Ore-Na2O2 Fusion (ICP/OES)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Arsenic	1.53	0.001	0.419	0.001	0.0709	0.001	0.0167	0.001	%
Bismuth	<0.06	0.06	<0.06	0.06	<0.06	0.06	0.066	0.06	%
Cobalt	0.47	0.01	0.288	0.01	0.062	0.01	<0.01	0.01	%
Copper	<0.06	0.06	5.34	0.06	1.07	0.06	<0.06	0.06	%
Lead	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	%
Nickel	0.29	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	%
Zinc	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	%



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Sample Description	853039		853040		853041		853042		
Lab ID	1358166		1358167		1358168		1358169		
Ore-Na2O2 Fusion (ICP/OES)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Arsenic	1.26	0.001	0.39	0.001	0.02	0.001	0.0162	0.001	%
Bismuth	<0.05	0.05	0.072	0.06	<0.06	0.06	<0.06	0.06	%
Cobalt	0.789	0.01	0.274	0.01	0.017	0.01	<0.01	0.01	%
Copper	0.4	0.05	<0.06	0.06	0.076	0.06	<0.06	0.06	%
Lead	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	%
Nickel	0.072	0.05	<0.06	0.06	<0.06	0.06	<0.06	0.06	%
Zinc	<0.05	0.05	<0.06	0.06	<0.06	0.06	<0.06	0.06	%

Sample Description	853043		853044		853045		853046		
Lab ID	1358170		1358171		1358172		1358173		
Ore-Na2O2 Fusion (ICP/OES)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Arsenic	0.113	0.001	2.61	0.001	0.409 [0.416]	0.001	0.0149	0.001	%
Bismuth	<0.06	0.06	<0.06	0.06	<0.06 [<0.06]	0.06	<0.06	0.06	%
Cobalt	0.086	0.01	1.5	0.01	0.25 [0.253]	0.01	<0.01	0.01	%
Copper	9.22	0.06	8.94	0.06	5.69 [5.81]	0.06	<0.06	0.06	%
Lead	<0.03	0.03	<0.03	0.03	<0.03 [<0.03]	0.03	<0.03	0.03	%
Nickel	<0.06	0.06	0.1	0.06	<0.06 [<0.06]	0.06	<0.06	0.06	%
Zinc	<0.06	0.06	<0.06	0.06	<0.06 [<0.06]	0.06	<0.06	0.06	%

Sample Description	853047		853048		853049		853050		
Lab ID	1358174		1358175		1358176		1358177		
Ore-Na2O2 Fusion (ICP/OES)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Arsenic	0.0074	0.001	2.06	0.001	0.0811	0.001	0.0143 [0.0098]	0.001	%



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Sample Description	853047		853048		853049		853050		
Lab ID	1358174		1358175		1358176		1358177		
Ore-Na2O2 Fusion (ICP/OES)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bismuth	<0.06	0.06	<0.05	0.05	<0.06	0.06	<0.06 [<0.05]	0.06	%
Cobalt	<0.01	0.01	1.16	0.01	0.051	0.01	<0.01 [<0.01]	0.01	%
Copper	<0.06	0.06	<0.05	0.05	<0.06	0.06	2.24 [2.14]	0.06	%
Lead	<0.03	0.03	0.13	0.03	2.82	0.03	<0.03 [<0.03]	0.03	%
Nickel	<0.06	0.06	0.25	0.05	<0.06	0.06	<0.06 [<0.05]	0.06	%
Zinc	<0.06	0.06	<0.05	0.05	<0.06	0.06	<0.06 [<0.05]	0.06	%

Sample Description	853051		853052		853053		
Lab ID	1358178		1358179		1358180		
Ore-Na2O2 Fusion (ICP/OES)	Result	MDL	Result	MDL	Result	MDL	Units
Arsenic	0.0069	0.001	0.08	0.001	0.0045	0.001	%
Bismuth	<0.06	0.06	0.061	0.06	<0.06	0.06	%
Cobalt	<0.01	0.01	0.069	0.01	<0.01	0.01	%
Copper	0.23	0.06	0.15	0.06	<0.06	0.06	%
Lead	<0.03	0.03	<0.03	0.03	<0.03	0.03	%
Nickel	<0.06	0.06	5.18	0.06	<0.06	0.06	%
Zinc	<0.06	0.06	<0.06	0.06	<0.06	0.06	%





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JMK Exploration Consulting

Work Order Number: 348649

### LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

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**QUALITY CONTROL DATA**

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.  
QAQC details include only values where sufficient sample data allowed measurement.

**Ore-Na2O2 Fusion (ICP/OES)**

**Positive Control: OREAS 77b (77) (77)**

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Nickel	0.1	%	10.2	11.5	12.4	20180712.R7.1B
Cobalt	0.1	%	0.14472	0.153	0.17688	20180712.R7.1B
Nickel	0.1	%	10.2	10.3	12.4	20180712.R7.1A
Copper	0.1	%	0.29718	0.314	0.36322	20180712.R7.1A
Copper	0.1	%	0.29718	0.336	0.36322	20180712.R7.1B
Cobalt	0.1	%	0.14472	0.141	0.17688	20180712.R7.1A

**Positive Control: PTM-1a (71) (71)**

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Cobalt	0.1	%	1.9	2	2.3	20180711.R7.1A
Arsenic	0.1	%	0.19	0.191	0.24	20180712.R7.1B
Copper	0.1	%	22.5	24.1	27.5	20180711.R7.1A
Cobalt	0.1	%	1.9	2.1	2.3	20180712.R7.1A
Nickel	0.1	%	42.7	46.4	52.2	20180712.R7.1B
Copper	0.1	%	22.5	24.1	27.5	20180712.R7.1A
Nickel	0.1	%	42.7	49.3	52.2	20180712.R7.1A
Copper	0.1	%	22.5	25.2	27.5	20180712.R7.1B
Cobalt	0.1	%	1.9	2.05	2.3	20180712.R7.1B
Nickel	0.1	%	42.7	45.6	52.2	20180711.R7.1A

**Positive Control: OREAS 990 (75) (75)**

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Arsenic	0.1	%	0.405	0.441	0.493	20180712.R7.1B
Arsenic	0.1	%	0.405	0.437	0.493	20180711.R7.1A
Copper	0.1	%	15.2	16.3	18.7	20180712.R7.1B
Zinc	0.1	%	12.2	13.6	15	20180712.R7.1B
Arsenic	0.1	%	0.405	0.485	0.493	20180712.R7.1A
Zinc	0.1	%	12.2	15.1	15	20180712.R7.1A



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Lead	0.06	%	7.776	8.64	9.504	20180712.R7.1B
Zinc	0.1	%	12.2	13.4	15	20180711.R7.1A
Copper	0.1	%	15.2	15.9	18.7	20180711.R7.1A
Lead	0.06	%	7.776	8.62	9.504	20180711.R7.1A
Lead	0.06	%	7.776	9.52	9.504	20180712.R7.1A
Copper	0.1	%	15.2	17.7	18.7	20180712.R7.1A

**Ore-Fire Assay (Gravimetric)**

**Positive Control: SN97 (10) (10)**

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Silver	N/A	g/T	48	52.7	59	20180711.R99A
Silver	N/A	g/T	48	54	59	20180711.R99B
Silver	N/A	g/T	48	53	59	20180711.R99C

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
853019B	1358146	Ore-FA-Gravimetric (R99)	20180711.R99A	
853019B	1358146	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853019B	1358146	Ore-Fus-OES (R7.1)	20180711.R7.1A	20180704.A52O
853020B	1358147	Ore-FA-Gravimetric (R99)	20180711.R99A	
853020B	1358147	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853020B	1358147	Ore-Fus-OES (R7.1)	20180711.R7.1A	20180704.A52O
853020B	1358147r	Ore-Fus-OES (R7.1)	20180711.R7.1A	20180704.A52O
853021	1358148	Ore-FA-Gravimetric (R99)	20180711.R99A	
853021	1358148	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853021	1358148	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853022	1358149	Ore-FA-Gravimetric (R99)	20180711.R99B	
853022	1358149	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853022	1358149	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853023	1358150	Ore-FA-Gravimetric (R99)	20180711.R99B	
853023	1358150	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853023	1358150	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52K
853024	1358151	Ore-FA-Gravimetric (R99)	20180711.R99B	



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853024	1358151	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853024	1358151	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853025	1358152	Ore-FA-Gravimetric (R99)	20180711.R99B	
853025	1358152	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853025	1358152	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853026	1358153	Ore-FA-Gravimetric (R99)	20180711.R99B	
853026	1358153	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853026	1358153	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853027	1358154	Ore-FA-Gravimetric (R99)	20180711.R99B	
853027	1358154	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853027	1358154	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853028	1358155	Ore-FA-Gravimetric (R99)	20180711.R99B	
853028	1358155	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853028	1358155	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853029	1358156	Ore-FA-Gravimetric (R99)	20180711.R99B	
853029	1358156	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853029	1358156	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853030	1358157	Ore-FA-Gravimetric (R99)	20180711.R99B	
853030	1358157	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853030	1358157	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853031	1358158	Ore-FA-Gravimetric (R99)	20180711.R99B	
853031	1358158	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853031	1358158	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853031	1358158r	Ore-FA-Gravimetric (R99)	20180711.R99B	
853031	1358158r	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853032	1358159	Ore-FA-Gravimetric (R99)	20180711.R99B	
853032	1358159	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853032	1358159	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853033	1358160	Ore-FA-Gravimetric (R99)	20180711.R99B	
853033	1358160	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853033	1358160	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853034	1358161	Ore-FA-Gravimetric (R99)	20180711.R99B	
853034	1358161	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	



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853034	1358161	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853035	1358162	Ore-FA-Gravimetric (R99)	20180711.R99B	
853035	1358162	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853035	1358162	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853036	1358163	Ore-FA-Gravimetric (R99)	20180711.R99B	
853036	1358163	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853036	1358163	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853037	1358164	Ore-FA-Gravimetric (R99)	20180711.R99B	
853037	1358164	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853037	1358164	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853038	1358165	Ore-FA-Gravimetric (R99)	20180711.R99B	
853038	1358165	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853038	1358165	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853039	1358166	Ore-FA-Gravimetric (R99)	20180711.R99B	
853039	1358166	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853039	1358166	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853040	1358167	Ore-FA-Gravimetric (R99)	20180711.R99B	
853040	1358167	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853040	1358167	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853041	1358168	Ore-FA-Gravimetric (R99)	20180711.R99B	
853041	1358168	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853041	1358168	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853042	1358169	Ore-FA-Gravimetric (R99)	20180711.R99B	
853042	1358169	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853042	1358169	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853043	1358170	Ore-FA-Gravimetric (R99)	20180711.R99B	
853043	1358170	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853043	1358170	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853044	1358171	Ore-FA-Gravimetric (R99)	20180711.R99B	
853044	1358171	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853044	1358171	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853045	1358172	Ore-FA-Gravimetric (R99)	20180711.R99C	
853045	1358172	Ore-FA-ICP-OES (R13.9)	20180711.R13.9C	



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853045	1358172	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853045	1358172r	Ore-Fus-OES (R7.1)	20180712.R7.1A	20180705.A52E
853046	1358173	Ore-FA-Gravimetric (R99)	20180711.R99C	
853046	1358173	Ore-FA-ICP-OES (R13.9)	20180711.R13.9C	
853046	1358173	Ore-Fus-OES (R7.1)	20180712.R7.1B	20180705.A52K
853047	1358174	Ore-FA-Gravimetric (R99)	20180711.R99C	
853047	1358174	Ore-FA-ICP-OES (R13.9)	20180711.R13.9C	
853047	1358174	Ore-Fus-OES (R7.1)	20180712.R7.1B	20180705.A52K
853048	1358175	Ore-FA-Gravimetric (R99)	20180711.R99C	
853048	1358175	Ore-FA-ICP-OES (R13.9)	20180711.R13.9C	
853048	1358175	Ore-Fus-OES (R7.1)	20180712.R7.1B	20180705.A52K
853049	1358176	Ore-FA-Gravimetric (R99)	20180711.R99C	
853049	1358176	Ore-FA-ICP-OES (R13.9)	20180711.R13.9C	
853049	1358176	Ore-Fus-OES (R7.1)	20180712.R7.1B	20180705.A52K
853050	1358177	Ore-FA-Gravimetric (R99)	20180711.R99C	
853050	1358177	Ore-FA-ICP-OES (R13.9)	20180711.R13.9C	
853050	1358177	Ore-Fus-OES (R7.1)	20180712.R7.1B	20180705.A52K
853050	1358177r	Ore-FA-Gravimetric (R99)	20180711.R99C	
853050	1358177r	Ore-FA-ICP-OES (R13.9)	20180711.R13.9C	
853050	1358177r	Ore-Fus-OES (R7.1)	20180712.R7.1B	20180705.A52K
853051	1358178	Ore-FA-Gravimetric (R99)	20180711.R99C	
853051	1358178	Ore-FA-ICP-OES (R13.9)	20180711.R13.9C	
853051	1358178	Ore-Fus-OES (R7.1)	20180712.R7.1B	20180705.A52K
853052	1358179	Ore-Fus-OES (R7.1)	20180712.R7.1B	20180705.A52K
853053	1358180	Ore-FA-Gravimetric (R99)	20180711.R99C	
853053	1358180	Ore-FA-ICP-OES (R13.9)	20180711.R13.9B	
853053	1358180	Ore-Fus-OES (R7.1)	20180712.R7.1B	20180705.A52K

## **Appendix IV**

### **Prospecting Notes (Dave Clement)**

SAMPLE SHEET

Project: Bloom Lake Prospecting

Date: June 10/18

Target: Lost Pit, Pit#1

Sample ID # 853019

Sample Loc.: Z 17T UTM 524558 - 5290478

Sample type: GRAB

Sampled by: D. Clement

Rock Type/Class: \_\_\_\_\_

Rock name: Nipissing diabase

Color: dark, black, speckled reddish mineral

Texture: bumpy

Grain size: M

Mineralization: Cobalt Bloom (Erythrite) cpy 1%

Magnetism: light

Strike: Trench 60°E Dip: \_\_\_\_\_

Description: Located 2 pits, 20m apart. Heavy debris filled

Pit#1 (West Pit) 3Mx1M, shallow. Cut into Ndb

No c.v. or vein material visible anywhere.

Bit of Bloom on wall rock & muck pile. Malachite & azurite  
in muck pile

Extra notes: Did not sample Pit#2

Pit#2 3Mx3M Nbd No c.v. Found in Pit or Muck  
or o.c. No Bloom. Didn't sample.

- Location: 524575 - 5290490



SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 10/18

Target : Lost Pit Pit #1

Sample ID # 853020

Sample Loc. : Z 17T UTM 524563 - 5290478

Sample type : LOOSE/Muck Pile

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : Ndb

Color : black, dark

Texture : \_\_\_\_\_

Grain size : M

Mineralization : Bloom

Magnetism : good

Strike : Trench 60°E Dip : \_\_\_\_\_

Description : Muck Pile of Lost Pit / Pit #1

\_\_\_\_\_  
\_\_\_\_\_

Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 10/18

Target : Last Pit, Pit #1

Sample ID # 853021

Sample Loc. : Z 17T UTM 524562-5290477

Sample type : Loose/muck pile

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : Ndb

Color : \_\_\_\_\_

Texture : \_\_\_\_\_

Grain size : M

Mineralization : Bloom, Malachite

Magnetism : Weak

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : Loose material in muck pile.  
same Pit #1 as 2 previous samples  
-019, -020

Extra notes : \_\_\_\_\_

## SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 10/18

Target : C.V. on map with DDH; 1954-6, 7, 8.

Sample ID # 853022

Sample Loc. : Z 17T UTM 524597-5290351

Sample type : Loose/muck Pile

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : Ndb + Calcite Veining )"

Color : dark black, massive

Texture : \_\_\_\_\_

Grain size : M

Mineralization : Bloom

Magnetism : \_\_\_\_\_

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : located long narrow bedrock trenches,  
heavy dedris cover. Can't find calcite vein  
or Bloom in trenches. 2 trenches T off from  
main trench. Did not find any D Holes (casings)

Extra notes : Muck Pile heavily covered.

Dug up muck at intervals along trenches  
and sampled loose muck with Bloom and/or  
C.V or CPY.

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 10/18

Target : C.V. on Map with DDH 1954-6-7-8

Sample ID # 853023

Sample Loc. : Z 17T UTM 524595-5290349

Sample type : Loose/Muck Pile

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : Ndb

Color : \_\_\_\_\_

Texture : \_\_\_\_\_

Grain size : M

Mineralization : Cpy 2% , ~~bornite~~ patches in small calcite seam & minor Bloom

Magnetism : moderate

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 10/18

Target : C.V. on map with DDH. 1954-6, -7, -8

Sample ID # 853024

Sample Loc. : Z 17T UTM 524584-5290370

Sample type : Loose/Muck Pile

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : ~~Calcite~~ Calcite Vein material  
4 inch wide.

Color : \_\_\_\_\_

Texture : \_\_\_\_\_

Grain size : \_\_\_\_\_

Mineralization : Bloom

Magnetism : \_\_\_\_\_

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Extra notes : From muck pile where trench  
is wider due to Pitting type blasting  
at that spot in trench.

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 10/18

Target : C.V. on map with DDH 19546, 7, -8

Sample ID # 853025

Sample Loc. : Z 17T UTM 524564-5290359

Sample type : Loose/Muck Pile

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : Ndb. with a bit of Calcite.

Color : \_\_\_\_\_

Texture : \_\_\_\_\_

Grain size : \_\_\_\_\_

Mineralization : CPY 10%, MALACHITE, small bornite patches or "azurite"?

Magnetism : Strong

dis + fracture-filled cp.  
3-5mm cp veinlet

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 11/18

Target : No. 1 Adit

Sample ID # 853026

Sample Loc. : Z 17T UTM 524586-5289628

Sample type : GRAB

Sampled by : D. Clement

Rock Type/Class : ~~Grey with black minerals & light~~

Rock name : diabase ~~greenish minerals.~~

Color : Grey with black minerals & light greenish  
minerals.

Texture : Rough

Grain size : M

Mineralization : Nothing visible

Magnetism : Strong

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : Taken @ head/entrance of Adit.  
Doesn't look like the local Ndb, but  
some resemblance, missing the reddish-  
brown mineral.

Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 11/18

Target : No. 1 Adit

Sample ID # 853027

Sample Loc. : Z 17T UTM 524579-5289627

Sample type : GRAB

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : diabase, "Ndb"?

Color : Black, speckled with his/light green minerals.

Texture : \_\_\_\_\_

Grain size : M

Mineralization : Nothing visible

Magnetism : Strong

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : Taken on face of Adit (end of adit, inside)

Resembles the local Ndb but without the speckled reddish-brown mineral.

Extra notes : \_\_\_\_\_



SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 11/18

Target : No. 1 Adit

Sample ID # 853028

Sample Loc. : Z 17T UTM 524581-5289633

Sample type : Loose/muck

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : Vein material, greyish, quartz filled,  
with some calcite.

Color : \_\_\_\_\_

Texture : \_\_\_\_\_

Grain size : F

Mineralization : Bloom, Azurite dots, silvery grey patches  
(smaltite?)

Magnetism : No

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : Taken from small muck pile on shore.  
Only one rock with bloom & considerable bloom.  
Possible vein material. Greyish metallic  
mineralization in sample.

Extra notes : The only rock in muck pile with  
bloom and vein material.

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 11/18

Target : Bishop Shaft.

Sample ID # 853029

Sample Loc. : Z 17T UTM 524409-5289726

Sample type : GRAB

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : diabase

Color : Dark black cubic minerals, silica, rusty

Texture : ROUGH, ALTERED

Grain size : M

Mineralization : No visible sulphides or oxides

Magnetism : Light to NONE

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : Taken on south wall of shaft  
along where 2 inch g.v. runs.

Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 11/18

Target : Bishop Shaft

Sample ID # 853030

Sample Loc. : Z 17T UTM 524405-529729

Sample type : GRAB

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : Looks like Ndb.

Color : \_\_\_\_\_

Texture : \_\_\_\_\_

Grain size : \_\_\_\_\_

Mineralization : A bit of rust, gossan, at surface but

No visible sulphides.

Magnetism : Strong.

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : Taken on North wall of  
Bishop Shaft.

Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 11/18

Target : Bishop Shaft.

Sample ID # 853031

Sample Loc. : Z 17T UTM 524404-5289727

Sample type : GRAB

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : Quartz, No calcite

Color : grey lines running in vein, light rust staining

Texture : \_\_\_\_\_

Grain size : \_\_\_\_\_

Mineralization : No sulphides

Magnetism : No

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : Taken From 2 inch g.v.  
along south wall of shaft.

Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 11/18

Target : 7ft x 7ft unmarked shaft.

Sample ID # 853032

Sample Loc. : Z 17T UTM 524539-5289733

Sample type : GRAB

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : Calcite vein, quartz calcite.

Color : White, lots of greyish rock intermixed.

Texture : \_\_\_\_\_

Grain size : M-C

Mineralization : Bloom

Magnetism : Mag pull all around shaft.

Strike : General E-W Dip : Vert.

Description : Remnants of vein on South wall of shaft. 4 inch thick.

Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project : Bloom Lake Prospecting  
Date : June 11/18  
Target : 7ft x 7ft Unmarked shaft  
Sample ID # 853033  
Sample Loc. : Z 17T UTM 524540-5289736  
Sample type : GRAB  
Sampled by : D. Clement  
Rock Type/Class : \_\_\_\_\_  
Rock name : Could be vein material.  
Color : Light grey, silica filled.  
Texture : \_\_\_\_\_  
Grain size : F  
Mineralization : Bloom, specks of cpy.  
Magnetism : No  
Strike : \_\_\_\_\_ Dip : \_\_\_\_\_  
Description : Taken on South wall of shaft.  
\_\_\_\_\_  
\_\_\_\_\_  
Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 12 / 18

Target : Swamp Pit

Sample ID # 853034

Sample Loc. : Z 17T UTM 524225-5290065

Sample type : GRAB

Sampled by : D. Clement

Rock Type/Class : igneous

Rock name : —

Color : light grey, lots of silica, a bit of calcite

Texture : Bloom, Cpy, Malachite

Grain size : M

Mineralization : —

Magnetism : No

Strike : general 30° E Dip : Near Vertical  
(Mag pull?)

Description : Taken on south wall (Footwall?)

Looks like some remaining piece of the C.V.

Light grey, lots of silica, some calcite, & smooth, black greasy looking, schisty surface of sample. (Alteration?)

Extra notes : —

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 12/18

Target : Swamp Pit

Sample ID # 853035

Sample Loc. : Z 17T UTM 524233-5290072

Sample type : GRAB

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : Quartz Calcite vein

Color : light grey hue throughout

Texture : medium-coarse

Grain size : \_\_\_\_\_

Mineralization : Bloom, Galena, <sup>Malachite</sup> & another silvery metallic mineral/sulphide, or silver Ore or "Native silver"?

Magnetism : No

Strike : 30°E Dip : Near Vertical

Description : Taken on exposed <sup>4 inch</sup> Q.C. Vein

Extra notes : \_\_\_\_\_



SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 12/18

Target : Showing / C.V. - SE of Swamp Pit

Sample ID # 853036

Sample Loc. : Z 17T UTM 524291-5289987

Sample type : GRAB/CHIP

Sampled by : D. Clement

Rock Type/Class : igneous

Rock name : Q.V.

Color : WHITE / RUSTY / SOME BLACK or Smoky Quartz

Texture : \_\_\_\_\_

Grain size : \_\_\_\_\_

Mineralization : Cpy, Azurite, Malachite, Possible "Fuchsite"?

Magnetism : No ~~Minor~~ Bloom

Strike : 100° E Dip : Steep South, about 20° S

Description : Local; 2 small trenches in slope,  
each with respective muck pile: "Top trench"  
and "Bottom trench, This sample corresponds to  
"Bottom trench"

Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 12/18

Target : Showing/c.v. - SE of Swamp Pit

Sample ID # 853037

Sample Loc. : Z 17T UTM 524295-5289980

Sample type : LOOSE/Muck

Sampled by : D. Clement

Rock Type/Class : igneous

Rock name : Ndb.

Color : \_\_\_\_\_

Texture : \_\_\_\_\_

Grain size : \_\_\_\_\_

Mineralization : Cpy 10%, Bloom

Magnetism : Good

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : Taken From Muck Pile of  
"Bottom Trench"

Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project: Bloom Lake Prospecting

Date: June 12/18

Target: Showing/C.V.-SE of Swamp Pit

Sample ID # 853038

Sample Loc.: Z 17T UTM 524280-5289987

Sample type: GRAB

Sampled by: D. Clement

Rock Type/Class: igneous

Rock name: Ndb. (looks like)

Color: Black

Texture: \_\_\_\_\_

Grain size: M

Mineralization: ? <sup>CPY < 1%</sup> PINK quartz feldspar or Erythrite?

Magnetism: good.

Strike: 100° E Dip: steep South

Description: Taken on wall of escarpment. ("Top trench")  
Vertical wall, stacked blocks, rusty w/patches  
of malachite. No Bloom on wall.

Extra notes: "Top trench". trench looks more like a  
blast off the side of escarpment. Between  
foot wall & hanging wall?

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 12/18

Target : showing/c.v.-SE of Swamp Pit

Sample ID # 853039

Sample Loc. : Z 17T UTM 524291-5289990

Sample type : Loose/muck

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : calcite vein material

Color : white

Texture : \_\_\_\_\_

Grain size : \_\_\_\_\_

Mineralization : Minor Bloom

Magnetism : No

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : Taken in muck pile from  
"Top Trench"

Extra notes : Lots of malachite in muck pile  
of "Top trench"

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 12/18

Target : Showing - SE of Swamp Pit

Sample ID # 853040

Sample Loc. : Z 17T UTM 524311 - 5289983

Sample type : GRAB

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : calcite vein

Color : white w/ large black crystals

Texture : \_\_\_\_\_

Grain size : \_\_\_\_\_

Mineralization : Bloom

Magnetism : Yes

Strike : 90° E Dip : Near Vert. Steep dip South

Description : Taken from remnants of Calcite vein on North wall of Pit, being the edge of small escarpment.

Extra notes : Some Bloom on Wall

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 12/18

Target : Adit #2

Sample ID # 853042

Sample Loc. : Z 17I UTM 524465-5289881

Sample type : GRAB

Sampled by : D. Clement

Rock Type/Class : igneous

Rock name : ? Gabbro? Perovine?

Color : Black medium-coarse grains, light greenish quartz looking minerals.

Texture : ~~medium~~

Grain size : M-c

Mineralization : minor amount cpy < 1%

Magnetism : good

Strike : \_\_\_\_\_ Dip : \_\_\_\_\_

Description : Taken From South wall of  
Adit #2

Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project: Bloom Lake Prospecting

Date: June 14/18

Target: BLOOM SOUTH (G5) Group of 5 showings.

Sample ID # 853043

Sample Loc.: Z 17T UTM 524497-5288563

Sample type: GRAB

Sampled by: D. Clement

Rock Type/Class: \_\_\_\_\_

Rock name: quartz vein

Color: WHITE

Texture: \_\_\_\_\_

Grain size: \_\_\_\_\_

Mineralization: A bit of Bloom, MALACHITE, AZURITE, CPY,  
& A BLUISH-BLACK SULPHIDE

Magnetism: No

Strike: 130° SE Dip: Vertical

(general-MAG PULL

Description: Q.V. 6 inch thick,

exposed at end of trench into Pit.

Extra notes: \_\_\_\_\_

SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 14/18

Target : Bloom South (G5)

Sample ID # 853044

Sample Loc. : Z 17T UTM 524484-5288570

Sample type : GRAB

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : Ndb, + g.v. material.

Color : Rusty, altered diabase

Texture : \_\_\_\_\_

Grain size : \_\_\_\_\_

Mineralization : MALACHITE, CPY

Magnetism : yes, Patchy.

Strike : 130° SE Dip : Vertical, slight dip North.

Description : Taken on South wall of trench.

(Trench 2)

Extra notes : \_\_\_\_\_



SAMPLE SHEET

Project : Bloom Lake Prospecting

Date : June 14/18

Target : Bloom South (G5)

Sample ID # 853645

Sample Loc. : Z 17T UTM 524484-5288572

Sample type : GRAB

Sampled by : D. Clement

Rock Type/Class : \_\_\_\_\_

Rock name : Ndb, Q.v.

Color : \_\_\_\_\_

Texture : \_\_\_\_\_

Grain size : \_\_\_\_\_

Mineralization : Bloom, MALACHITE, AZURITE, CPY

Magnetism : No

Strike : 130°E Dip : Vertical

Description : Taken on South Wall of trench 2  
remnants of Q.v. Mix with Ndb.

Extra notes : \_\_\_\_\_

SAMPLE SHEET

Project: Bloom Lake Prospecting

Date: June 14/18

Target: Bloom South (G5)

Sample ID # 853046

Sample Loc.: Z 17T UTM 524500 -5288572

Sample type: GRAB

Sampled by: D. Clement

Rock Type/Class: \_\_\_\_\_

Rock name: N.d.b.

Color: \_\_\_\_\_

Texture: \_\_\_\_\_

Grain size: \_\_\_\_\_

Mineralization: No visible sulphide or oxide

Magnetism: Yes, good

Strike: \_\_\_\_\_ Dip: \_\_\_\_\_

Description: Taken on North wall of  
trench 1 - Pit.

Extra notes: \_\_\_\_\_

# SAMPLE SHEET

Project: Bloom Lake Prospecting

Date: June 14/18

Target: Bloom south (G5)

Sample ID# 853647

Loc. Z 17 TUM 524527-528 8553

Sample type: GRAB

Sampled by: D. Clement

Rock Type/class: \_\_\_\_\_

Rock name: Ndb.

Color: \_\_\_\_\_

Texture: \_\_\_\_\_

Grain: \_\_\_\_\_

Mineralization: No sulphides visible

Mag: Yes, good

Strike: 90°E Dip: \_\_\_\_\_

Description: Taken from wall rock in Pit of  
Trench 3. No vein visible in trench  
or Muck pile.

## SAMPLE SHEET

Project: Bloom Lake Prospecting

Date: June 14/18.

Target: Bloom Middle, Unmarked Pit.

Sample ID# 853048

Loc: Z UTM 524664-5289512

Sample Type: Loose, Muck

Sampled by: D. Clement

Rock type: \_\_\_\_\_

Rock name: quartz calcite vein material.

Color: \_\_\_\_\_

Texture: \_\_\_\_\_

Grain: \_\_\_\_\_

Mineralization: Bloom

Mag: No

Strike: \_\_\_\_\_ dip: \_\_\_\_\_

Description: vein material looks altered,

curvy grey lines running through.

(or visible)  
No vein remaining in or around Pit  
(in situ)

only in Muck pile.

## SAMPLE SHEET

Project: Bloom Lake Prospecting

Date: June 14 / 18

Target: Bloom Middle (Unmarked Pit)

Sample ID# 853049

Loc: Z LIT UTM 524 653 - 528 9508

Sample Type: Loose, Muck.

Sampled by: D. Clement

Rock Type: g. calcite vein material

Rock name: \_\_\_\_\_

Color: White, mixed light grey

Texture: \_\_\_\_\_

Grain: \_\_\_\_\_

Mineralization: Galena

Mag: No

Strike: \_\_\_\_\_

Dip: \_\_\_\_\_

Description: Taken from Muck Pile

SAMPLE SHEET

Project: Bloom Lake Prospecting

Date: June 14/18

Target: Bloom Middle, "Silver Vein" trench/Pit

Sample ID# 853050

Loc: Z 17T UTM 524588-5289519

Sample type: GRAB

Sampled by: D. Clement

Rock Type/Class: \_\_\_\_\_

Rock name: Ndb. Quartz

Color: Quartz, Pink hued  
calcite

Texture: \_\_\_\_\_

Grain: \_\_\_\_\_

Mineralization: Malachite, Cpy

Mag: Yes

Strike: 60°E Dip: Vertical

Description: Taken in trench at Pit location  
of labelled "Silver Vein"

Remnants of vein on wall.

# SAMPLE SHEET

Project: Bloom Lake Prospecting

Date: June 14/18.

Target: Bloom Middle, "Silver vein", trench/Pit.

Sample ID# 853051

Loc: Z LT UTM 524609-5289527

Sample type: GRAB

Sampled by: D. Clement

Rock type: \_\_\_\_\_

Rock name: Ndb. & Q.v.

Color: Pinkish hued Quartz calcite

Texture: \_\_\_\_\_

Grain: \_\_\_\_\_

Mineralization: Cpy 2%. blebby

Mag: yes

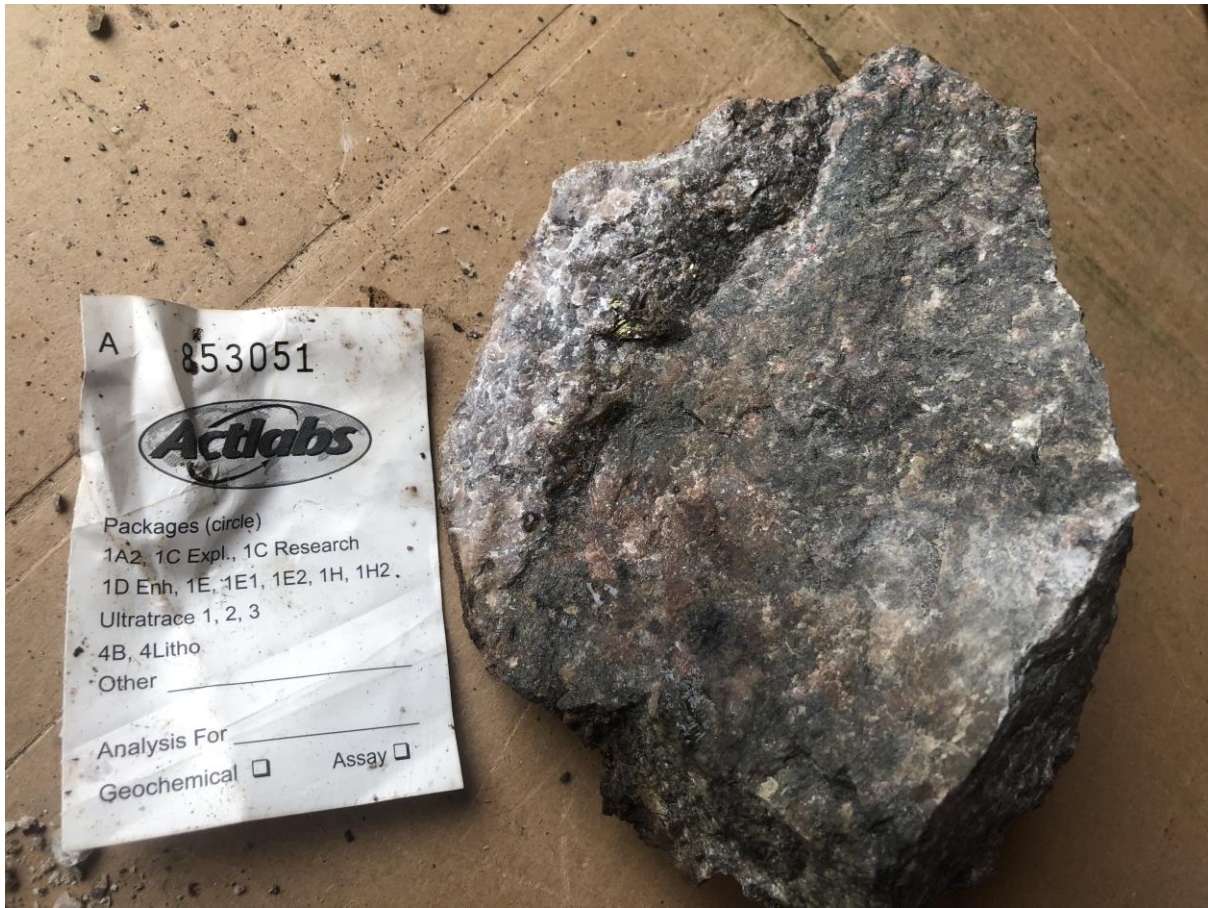
Strike: \_\_\_\_\_ dip: \_\_\_\_\_

Description: Taken about half way up  
trench of "Silver vein" q.v. exposed.

## **Appendix V**

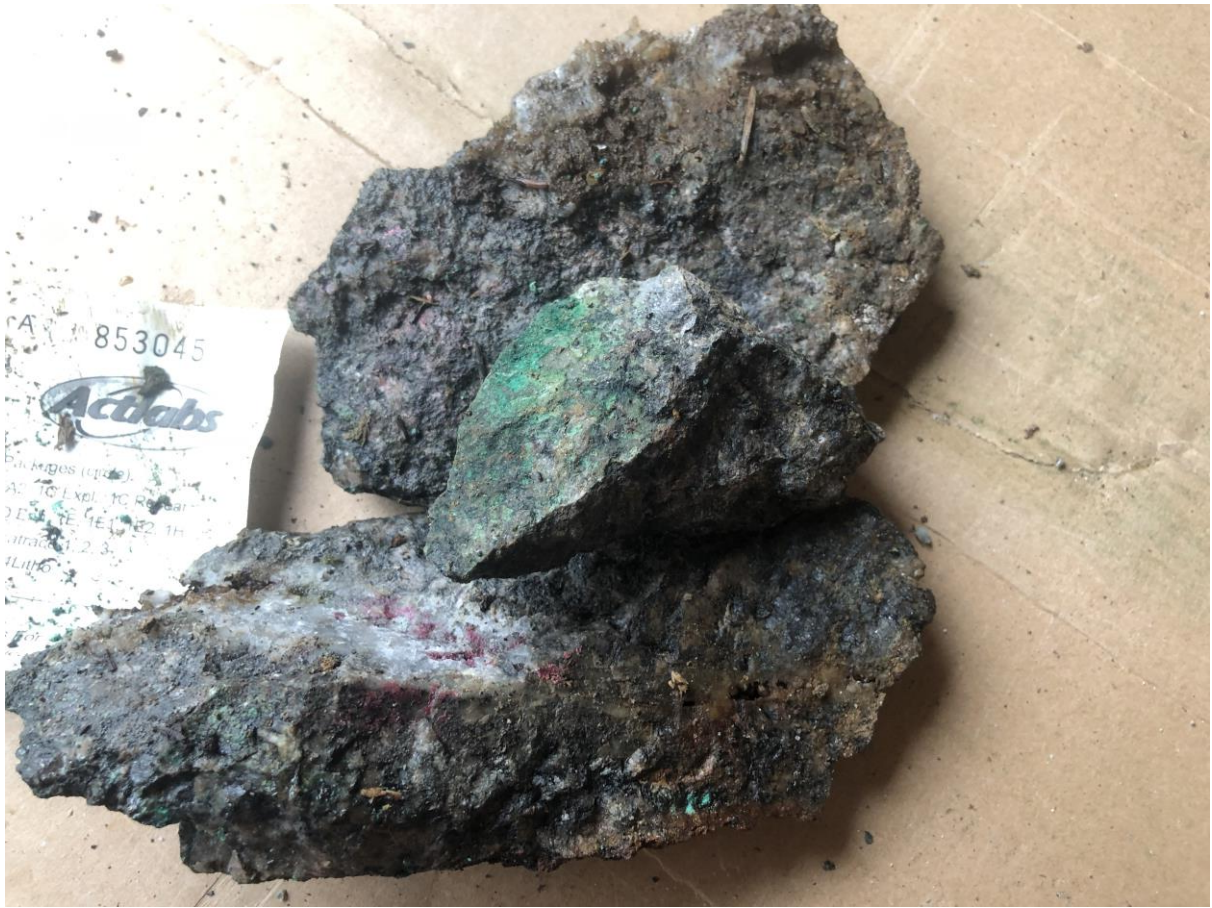
### **Photographs**













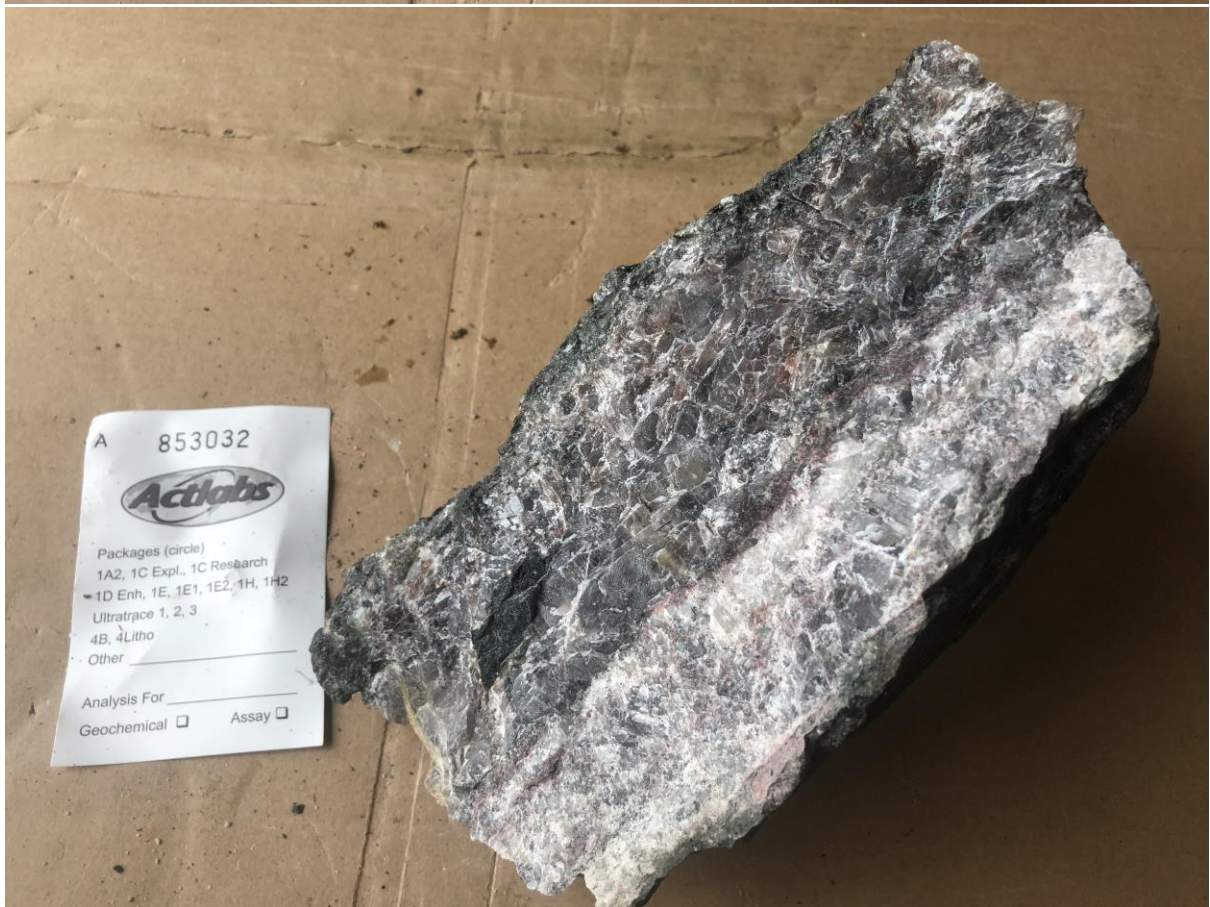




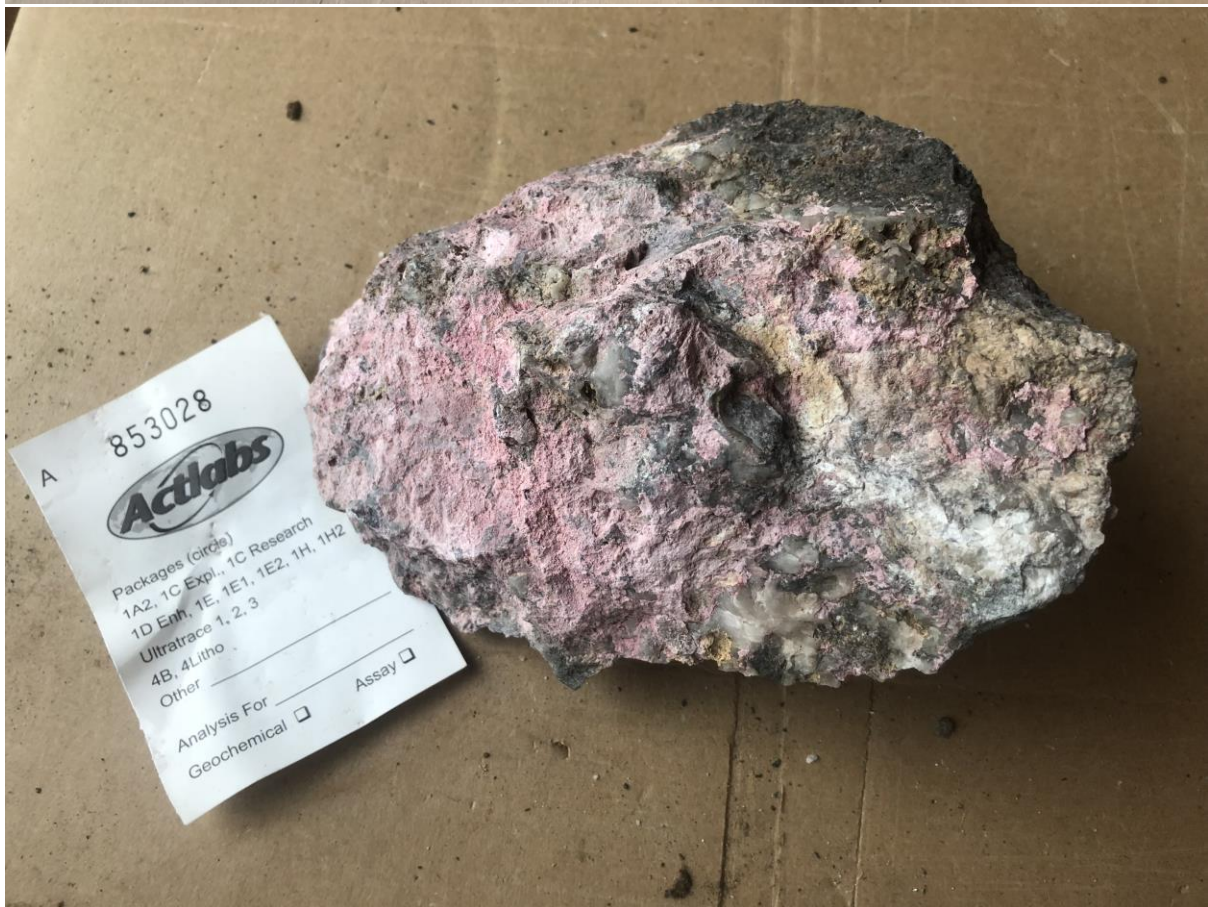


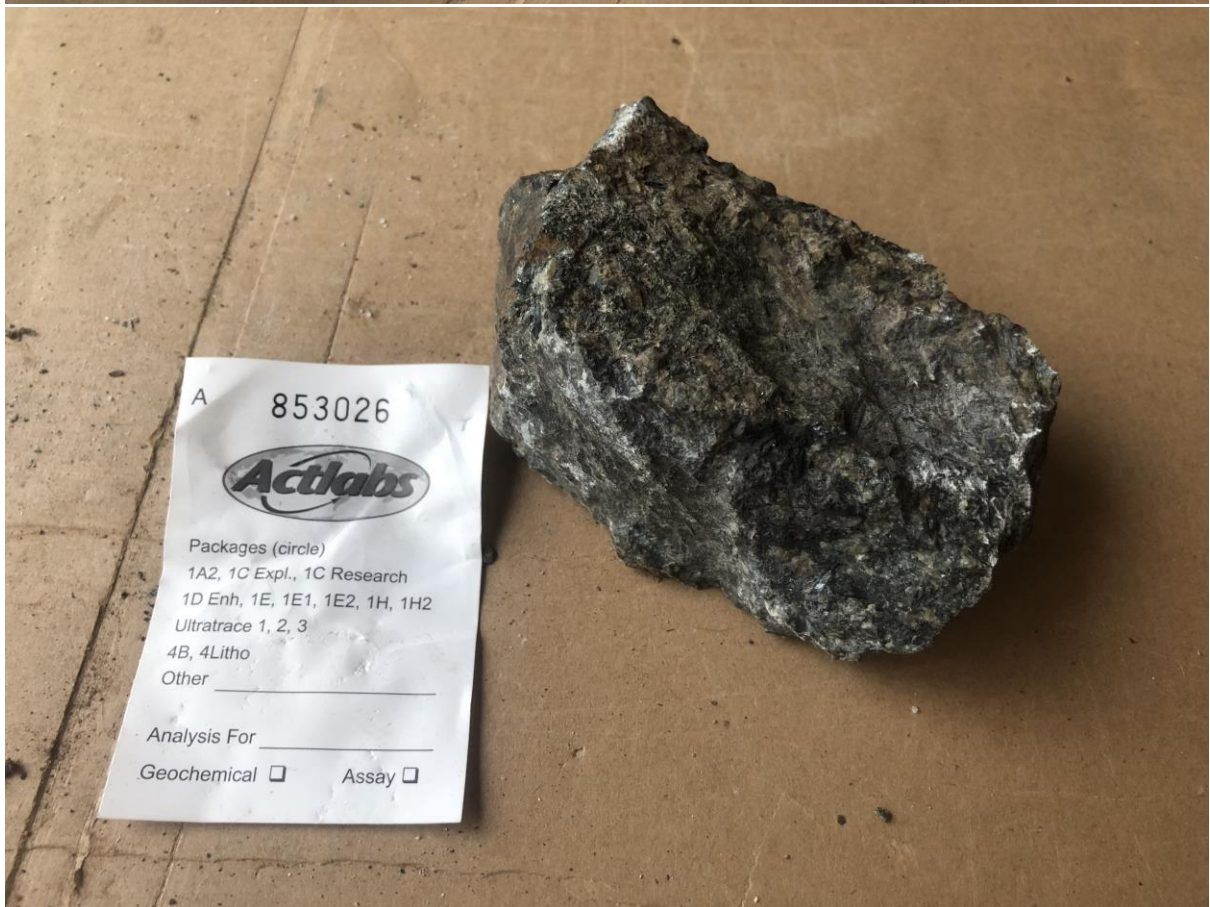




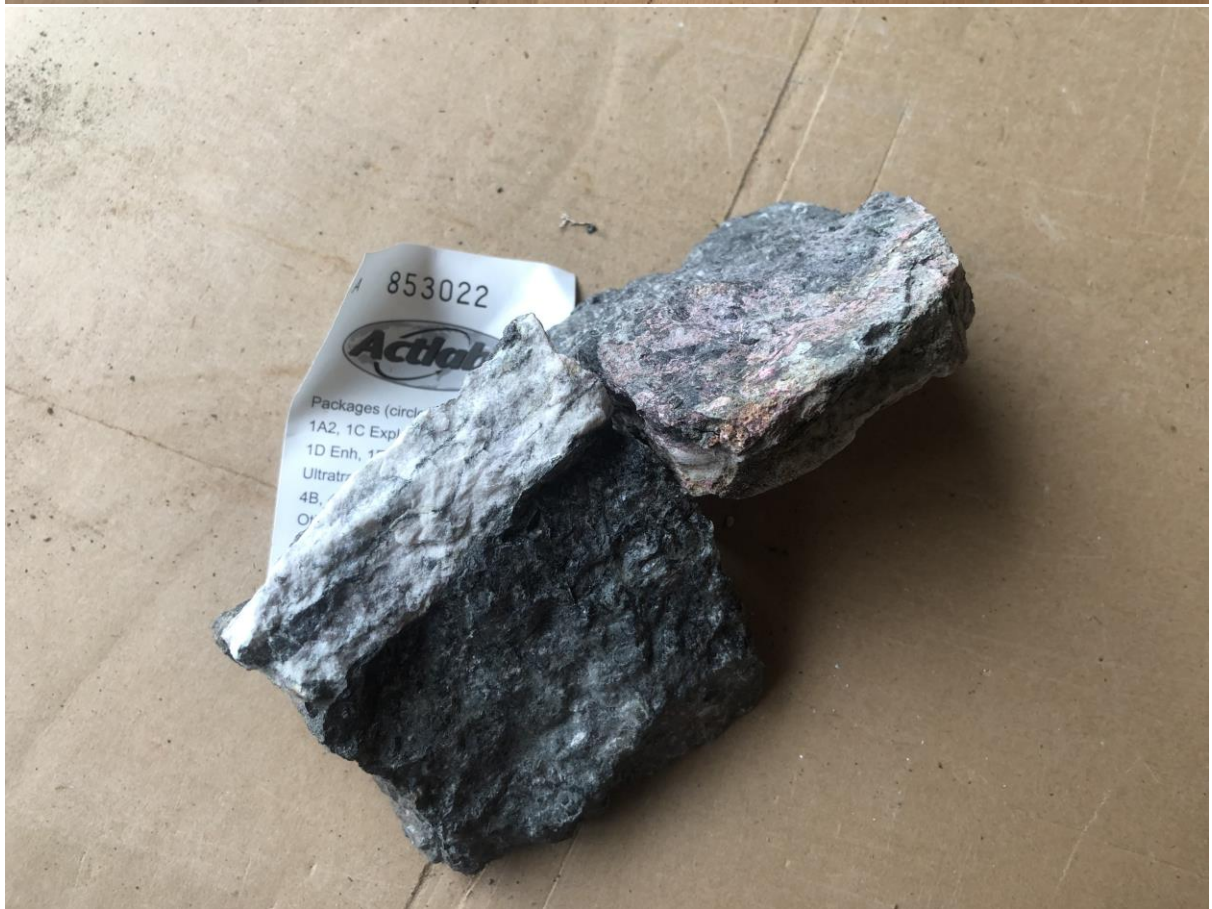
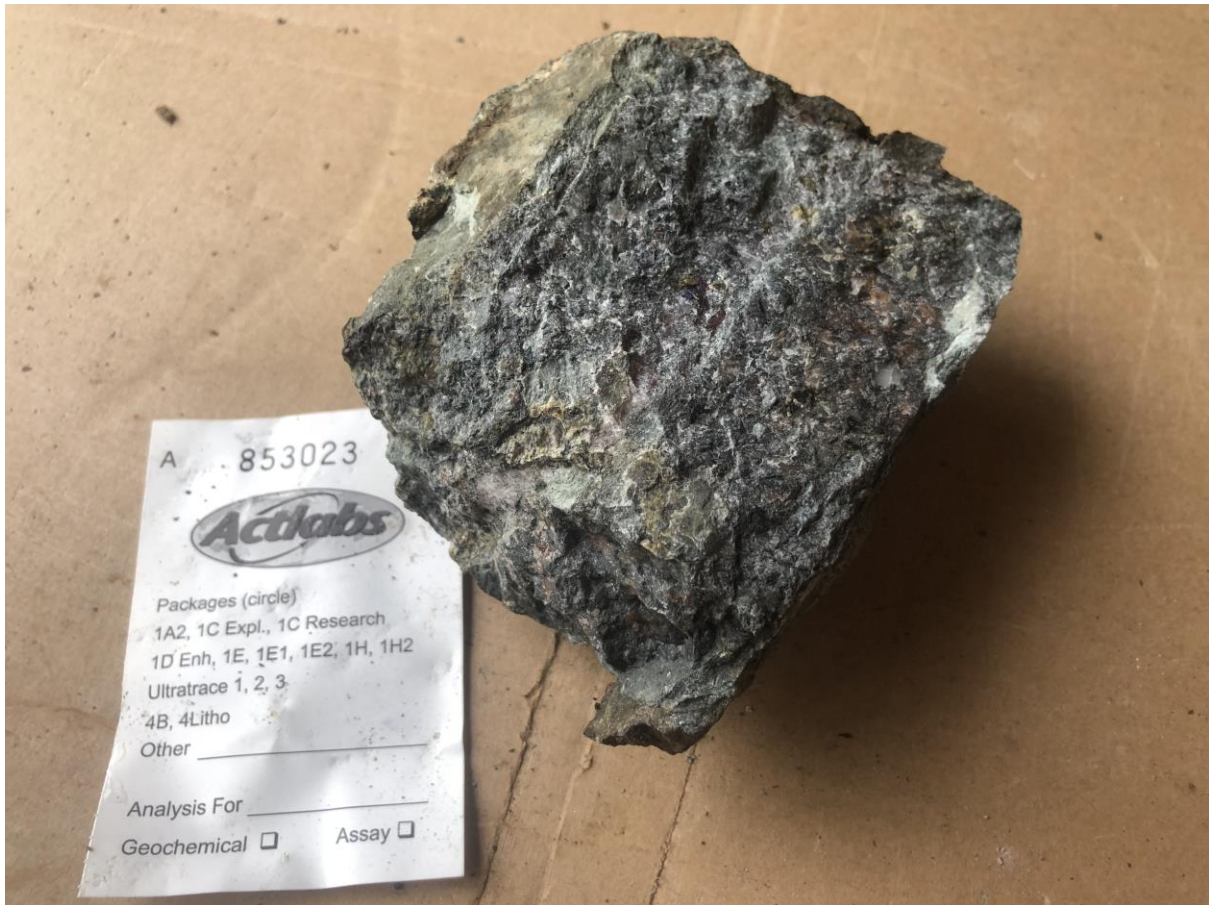


















A 853019

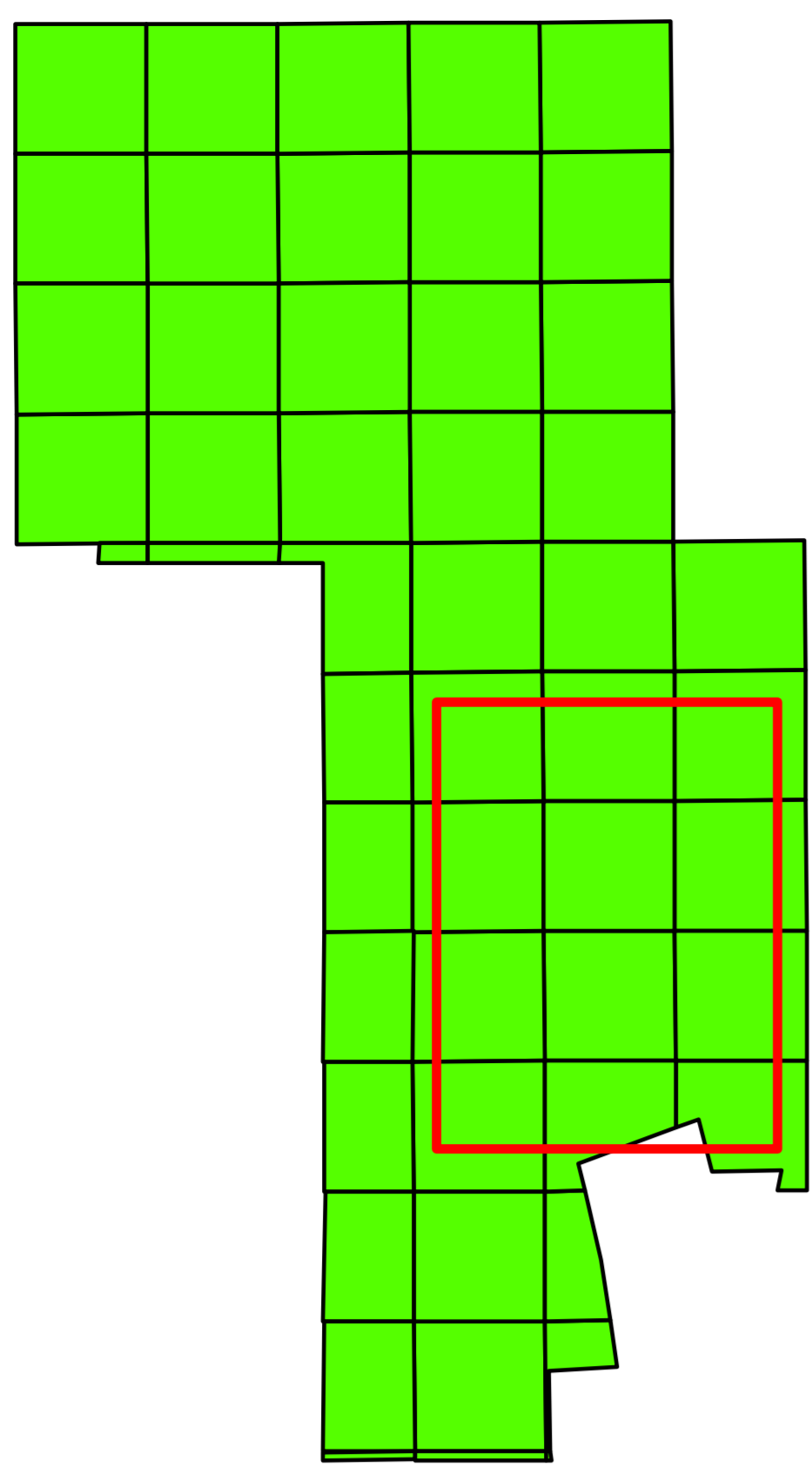
**Actlabs**

Packages (circle)  
1A2, 1C Expl., 1C Research  
1D Enh, 1E, 1E1, 1E2, 1H, 1H2  
Ultratrace 1, 2, 3  
4B, 4Litho  
Other \_\_\_\_\_

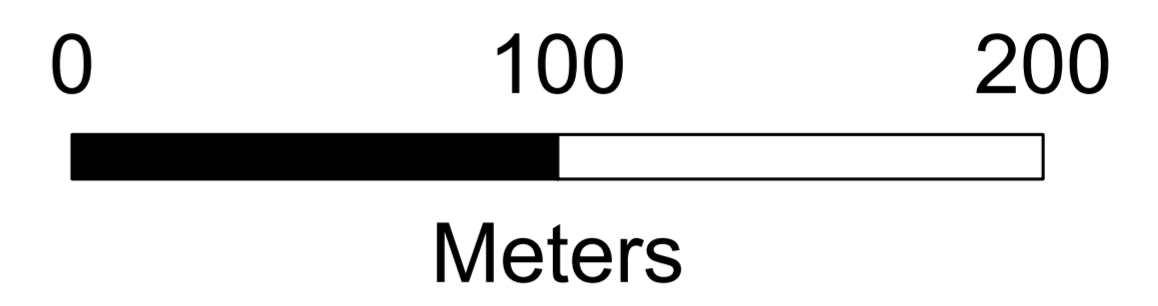
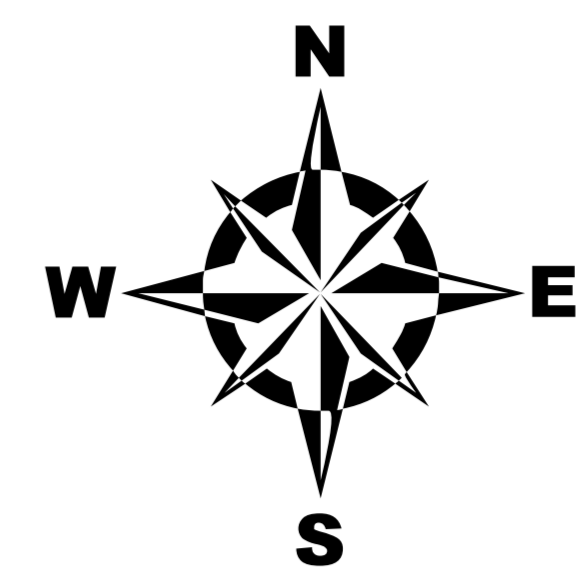
Analysis For \_\_\_\_\_ Assay   
Geochemical

524400

524900



**Bloom Lake Project**



**Legend**

- Sample Locations
- ⚡ Showings
- Historical DDH (approx location)
- Calcite Veins (approx location)
- Contours
- Lakes
- Streams
- Wetland



5290500

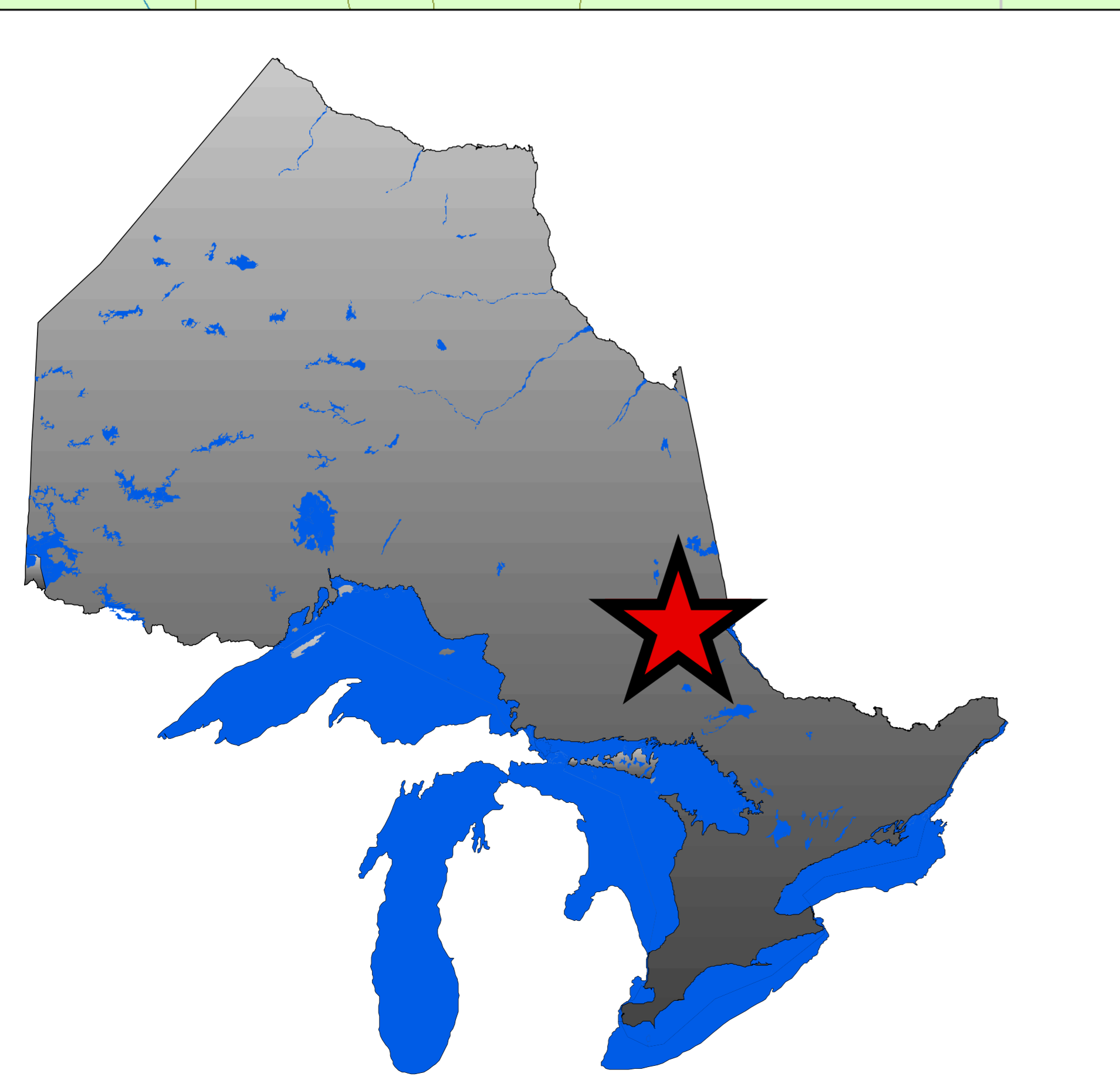
5290500

5290000

5290000

5289500

5289500



524400

524900

251792

**Lost Pit**

853019  
853020  
853021

853024

853025

853022

853023

243759

853035

853034

**Swamp Pit**

853038

853036

853039

853040

853037

**No. 2 Adit**

853041

853042

853033  
853032

**Bishop Shaft**

853029

853030

853031

**No. 1 Adit**

221266

853028

853026

853027

853051

853050

853048

853049

221267

287806

325202

174664