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## APOLLO EXPLORATION

### **PROJECT NAME**

HEES project  
Hemlo, Ontario

### **CLIENT**

Apollo Exploration  
150 King Street West, Suite 2800  
Toronto, Ontario, Canada, M5H 1J9

### **DATE**

October 24, 2022

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## Introduction

Inventus was contracted to conduct geological mapping and grassroots prospecting at Apollo Explorations HEES Project. As part of this work a compilation of historic data was gathered and reprocessed to build a GIS database to help preform the work. The data compilation was conducted prior to the field program to help better understand the projects geology and confirming all previous geological mapping to identify areas. Areas with high geological interest were then mapped and prospected in detail to identify and sample any mineralized outcrops.

## Location, Access, and Physiography

The land packages are located approximately 38 km west of the town of White River and 57 km east of the town of Marathon in the Thunder Bay mining division, north-western Ontario (Figure 1). The packages are 4 km east-west of each other, with the western claims falling in Wabikoba Lake area and the eastern claims in White Lake area. The west and east claim packages are approximately 5.6 km<sup>2</sup> and 8.0 km<sup>2</sup>, respectively.

The properties are located 1 to 2 km north of Highway 17, approximately 10 km east of the Hemlo Mining Camp. Access to the eastern property is excellent. To access it, turn right while heading west on the Trans-Canada Highway on an unnamed gravel road near Kichidabidik Inlet on White Lake. This road will cross a power line corridor, which if travelled, transect the claims in their entirety. This gravel road also loops west and allows access to the northern portion of the claims as well. In the south, the highway intersects the claims and can also be used as an access. The western claims, however, are more difficult to access. Continuing west along the Trans-Canada Highway past the eastern claim block, turn right on Highway 614. Continue for 5.5 km and turn right on Wabikoba Lake Road. Continue for another 5.6 km to an ATV trail that heads south. The ATV trail leads to the northern extent of the claims and provides the best access to the area.

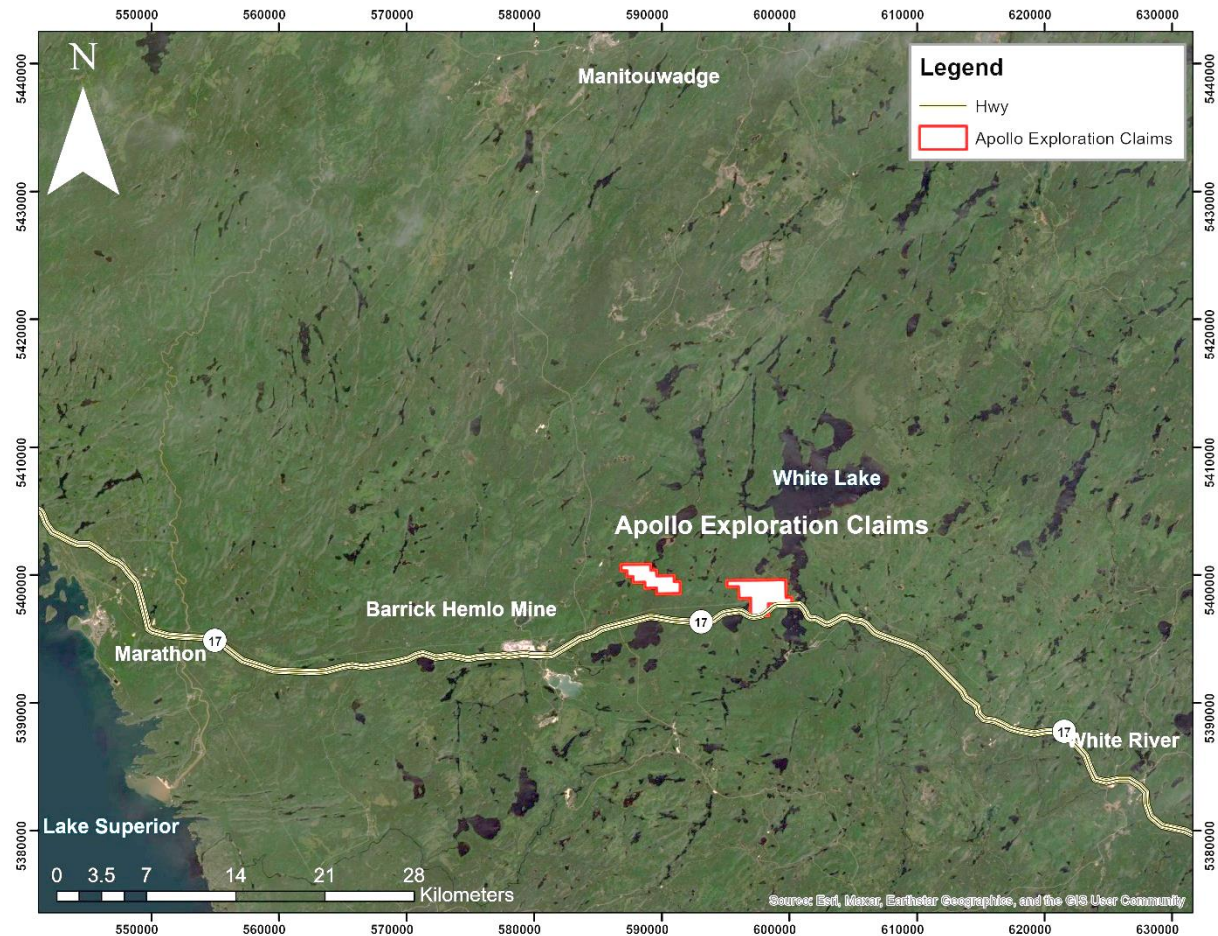


Figure 1. Project location.

## Exploration History

Although the Hemlo area has seen significant exploration from as far back as 1869, the specific grounds being prospected in this program remained unexplored until the early 1980's.

In the eastern claim package, the first work carried out was a 1983-1984 exploration program carried out by Golden Terraces Resources Corporation. The property was flown by Aerodat Ltd. with high resolution EM, VLF and magnetics at a 100m flight line spacing. Furthermore, the area was geologically mapped along 100m spaced cut grid line and was simultaneously sampled, although no economically significant assay results were returned. An "A" horizon humus soil survey at a 25m sample spacing interval was conducted, again with inconclusive results.

Similarly, the western block was first explored in 1983. Golden Century Resources Ltd. conducted line cutting followed by detailed geological mapping on a property that comprised the west-central portion of the present western block. This mapping was followed up with a soil sampling survey targeting the "B" horizon. This was conducted along a 25m sample interval on 100m cut lines. Some

elevated gold values were identified as a result of the survey. Later in 1983 an EM and magnetics ground survey was conducted along the previously cut lines and yielded some data concordant with previously gathered geochemical anomalies.

Later that year R.J. McGowan commissioned an exploration program from Manwa Exploration Services Ltd. covering the north-west of the western block as well as a large amount of ground beyond the current claims. The program consisted of detailed geological mapping and sampling. Sampling was mostly inconclusive.

In the south-central section of the western block Aerodat carried out an airborne geophysical survey on behalf of Onitap Resources Inc. A total of 23-line kilometers of EM, VLF and magnetic surveys were flown on this portion of the property. Narex Ore Search Consultants were contracted to cut lines, produce detailed geological maps and to carry out ground EM-16 and magnetometer surveys.

## Regional Geology

Geological mapping by the Ontario Geological Survey has defined an east trending belt of metasedimentary and metavolcanic rocks, forming a broad synform with granitic plutons (Musher Lake Pluton to the north and Cedar Lake Pluton to the south) along its axis (Smith 1985). The belt can be divided into a northern and southern sequence. In the north, the Heron Bay Sequence consists of felsic to intermediate metavolcanics and sediments. The coarsest pyroclastic rocks occur near Heron Bay. Towards the east, rocks become finer grained with higher degrees of reworked material (Smith 1985). Closer to Hemlo (and the HEES project area), metapelitic rocks interfinger within the metavolcanic and tuffaceous metasedimentary rocks. Continuing east, metapelites dominate the area (Smith 1985). Regional geological maps and cross sections suggest the Hemlo deposit exists along the hanging-wall transition between these dominantly volcanoclastic rocks and the adjacent fine grained metasedimentary rocks. It is largely unclear however, whether this transition is reflective of the original tectonic-stratigraphy or is a superimposed structural control. A popular model for the formation of the Hemlo deposit involves magmatic fluids from local plutonic systems. Based on the relative structural position of nearby plutons and the deposit, it is argued that the Cedar Lake Pluton is best situated to fill this role, however this is not definitive theory (Davis, Lin 2003).

The youngest volcanic rocks in the area were approximately coeval with the Cedar Lake Pluton at around 2,688 Ma (Davis, Lin 2003). The first phase of greenstone development was likely an arc building process. Peak metamorphism would have also occurred at this time due to the massive heat produced in the arc development. During late-stage arc development, an influx of clastic sediments occurred between 2,693 and 2,688 Ma, representing many of the metasedimentary rocks seen in the field area at present (Davis, Lin 2003).



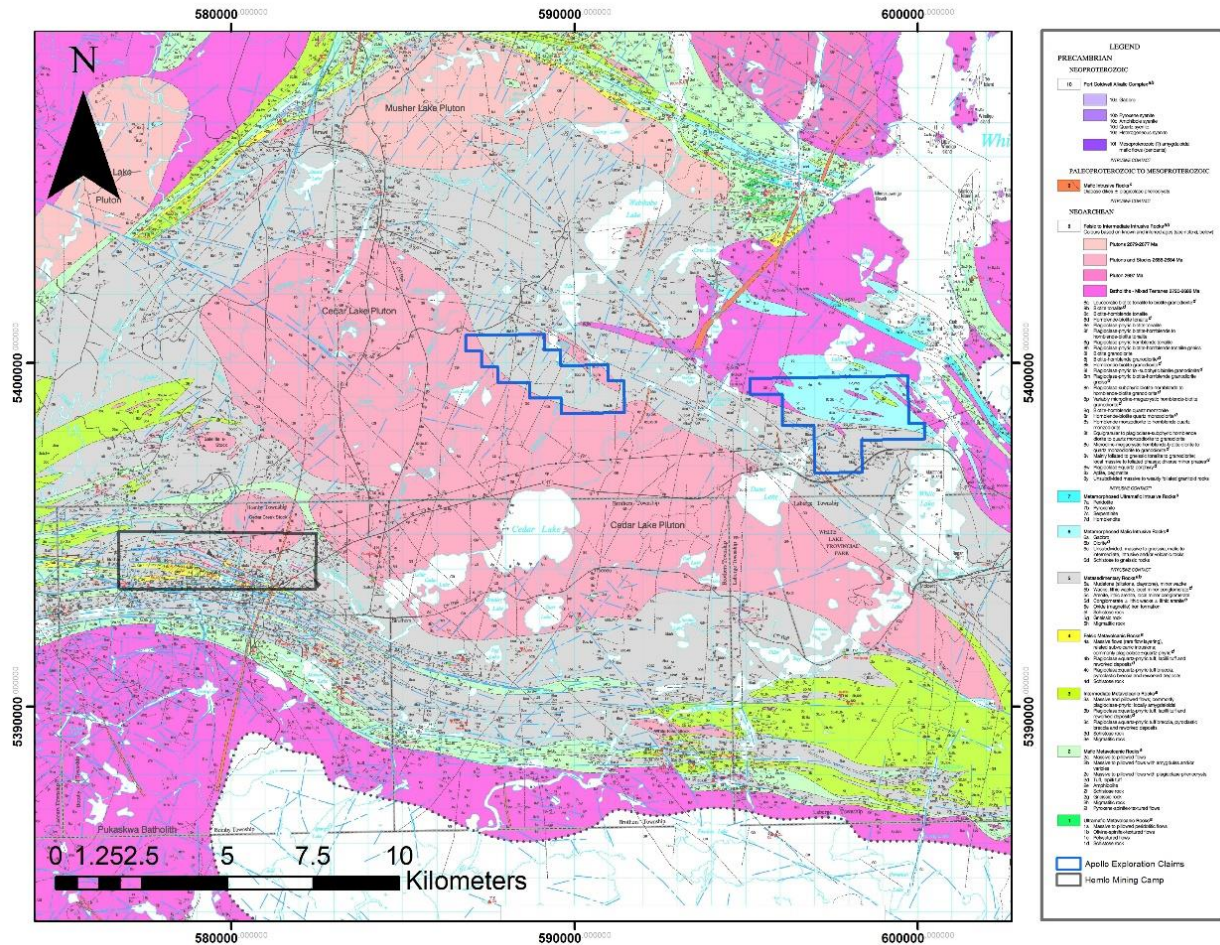


Figure 2. Regional geology.

## Hemlo Geology

The Hemlo deposit is one of the largest gold camps in Canada. The gold mineralization at Hemlo is mostly found near the deformed contact between the Moose Lake quartz porphyry volcanic complex, and the stratigraphically underlying metasedimentary rocks. All of which has undergone camp-sized folding. Evidence suggests gold is both structurally and lithologically controlled, likely being deposited within chemical and mechanical traps along jogs in a sinistral shear zone (Davis, Lin 2003). This likely occurred during a second deformation event in the region and representing the most intense phase.

Post mineralization, the area underwent amphibolite facies metamorphism. Geochronological studies suggest that this primary gold-forming event began during a period of plutonism intruding in an actively deforming crust providing a catalyst for the metamorphism (Davis, Lin 2003). During this amphibolite-facies metamorphism, the ore mineral assemblage underwent partial melting, with the concurrent deformation resulting in a Sb – As rich sulfosalt melt (Tomkins, Pattison, Zaleski 2004). This gold bearing melt was transported into dilational zones such as boudin necks and extensional fracturing. However,

less mobile ore minerals remained in compressional sites resulting in the heterogeneous nature of the ore at the Hemlo deposit (Tomkins, Pattison, Zaleski 2004).

## Property Geology

In the HEES project areas, previous mapping has identified intense metamorphism and migmatization, leading to a variety of different classifications for the same rock types. In general, previous mapping has identified the primary lithologies as leucogranites, paragneisses or metasedimentary rocks characterized by their observed mineralogy. Regardless of classification, it appears the area is largely dominated by pelitic rocks that have been subjected to varying degrees of metamorphism and migmatization, with less common intermediate to intrusive bodies stemming from the proximal Cedar Lake Pluton, also subjected to metamorphism. Interestingly, the Ontario Geological Survey's map of the Schreiber-Hemlo Greenstone Belt represents the northern portion of the eastern block as metamorphosed mafic intrusive rocks, but historic work done on the property suggests it is instead paragneisses and conglomerates. Furthermore, medium grained diabase dykes predominately striking north-south with some branching towards the northwest represent the youngest unit in the area.

A 1 km thick sequence of sedimentary and volcanoclastic rocks with a transition zone was mapped on the eastern block. This sequence is similar to Hemlo, and it has been historically hypothesized to have the most potential for a discovery of gold mineralization of similar style to the Hemlo gold deposit (Smith 1985).

## 2022 Geological Mapping and Prospecting

Between the dates of August 1st to August 25<sup>th</sup> Inventus Mining performed a geological mapping and prospecting program on the HEES project owned by Apollo Exploration. Work was performed by Winston Whymark and Alec Graham both who are employed by Inventus Mining. This work was split between two claim blocks, the "West Block" and the "East Block" (Figures 3 and 4) over the course 14 days.

As part of the work conducted on the properties, historical data; including geological mapping, geophysical surveys and OGS data was compiled and digitized to create an ArcGIS database. This database was then used to identify areas that had no previously known exploration work and areas that had higher potential for mineralization. Areas that had been previously mapped were also visited to confirm geological descriptions of the rocks.

Areas on the property that were not previously mapped or prospected were visited. During this work any prospective outcrops that were identified were then subject to detailed prospecting and mapping, including the collection of grab samples and/or sediment samples. A total of 28 rock samples and 8 sediment samples were collected as part of the work (Table 1).



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## 2022 GEOLOGICAL MAPPING, GRASSROOTS PROSPECTING AND SAMPLING IN WABIKOBA AND WHITE

### LAKE AREAS

Overall, the program identified five areas of high potential and eight areas that should be sampled using a diamond saw (Figure 3 and 4). This follow up work has been described in the following section.

Table 1. Rock and Sediment Grab Samples.

Sample ID	Easting	Northing	Description	Date
E5703519	587593	5400151	Creek Sediment	Aug 10 '22
E5703520	587593	5400151	Creek Sediment	Aug 10 '22
E5703521	587593	5400151	Creek Sediment	Aug 10 '22
E5703522	588150	5400625	Dark gray, bt-qtz metasandstone. ~1% disseminated pyrite. Near diabase contact.	Aug 10 '22
E5703523	588524	5400382	Mg qtz-bt metasediment. Trace fg pyrite.	Aug 11 '22
E5703524	588830	5400400	Fly rock. Sugary, fg qtz-bt-plag schist. Rusty.	Aug 11 '22
E5703525	589500	5400235	Creek sediment	Aug 15 '22
E5703526	589500	5400235	Creek sediment	Aug 15 '22
E5703527	597218	5397096	Cg diabase with trace pyrite.	Aug 12 '22
E5703528	597276	5397262	Intense pervasive sil+alb(?) alteration. Very pink, epidote veining, vuggy w/ a brown fibrous mineral.	Aug 12 '22
E5703529	597655	5399163	Schistose qtz-bt-plag metasediment w/ k-spar veining parallel to fabric	Aug 16 '22
E5703530	597375	5398825	Contact between ~10cm folded qtz-diorite dyke in a banded paragneiss.	Aug 16 '22
E5703531	597233	5398657	Mg. fissile, feldspar-bt schist w/ rusty leucosome.	Aug 16 '22
E5703532	597175	5398593	Discrete qtz vein, banding concordant w/ ~20% pyrite. Magnetic. 5-10cm wide.	Aug 16 '22
E5703533	596645	5398765	K-Feldspar porphyritic metavolcanic(?). ~50% strongly foliated bt, ~50% coarse, euhedral feldspar crystals. Trace sulphides.	Aug 16 '22
E5703534	596645	5398765	Adjacent to last, compositionally the same but less porphyroclasts and more crystalline. ~3% rusty py pods.	Aug 16 '22
E5703535	597135	5399436	Feldspar porphyry in 60% dark gray-blue amphibole matrix w/ patchy epidote. Adjacent to migmatitic rocks.	Aug 16 '22
E5703536	595953	5399360	Mg magnetic diabase dyke.	Aug 17 '22
E5703537	596355	5399050	Creek sediment	Aug 17 '22
E5703538	596355	5399050	Creek sediment	Aug 17 '22
E5703539	597252	5399139	Feldspar porphyry with biotite matrix. <1% py.	Aug 17 '22

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## 2022 GEOLOGICAL MAPPING, GRASSROOTS PROSPECTING AND SAMPLING IN WABIKOBA AND WHITE

### LAKE AREAS

E5703540	598522	5398721	Mg paragneiss w/ irregular dioritic intrusions. Sample from rusty leucosome. <1% sulphides.	Aug 17 '22
E5703541	597710	5398302	Mg muscovite-biotite schist w/ ~3% patchy sulphides. Rusty patches. Equant, coarse qtz porphyroblasts (?)	Aug 17 '22
E5703542	597848	5398342	Mg muscovite-biotite schist w/ ~3% patchy sulphides. Rusty patches. Equant, coarse qtz porphyroblasts (?)	Aug 17 '22
E5703543	597655	5399163	Schistose qtz-bt-plag metasediment w/ k-spar veining parallel to fabric. Trace py.	Aug 16 '22
E5703544	587593	5400151	Fly rock. Pegmatitic granite w/ cg biotite and subhedral tourmalines.	
E5703545	588802	5400535	Vuggy hydrothermally altered zone in a fg pelitic metasedimentary rock. Pink-green irregular veining and bx. Mostly qtz-ep-fspar veining. <1% v. fine cpy+py rimming veins.	
E5703546	588417	5400027	Mg, mesocratic weakly schistose metasedimentary rock. Qtz-bt-plag.	

## 2022 GEOLOGICAL MAPPING, GRASSROOTS PROSPECTING AND SAMPLING IN WABIKOBA AND WHITE LAKE AREAS

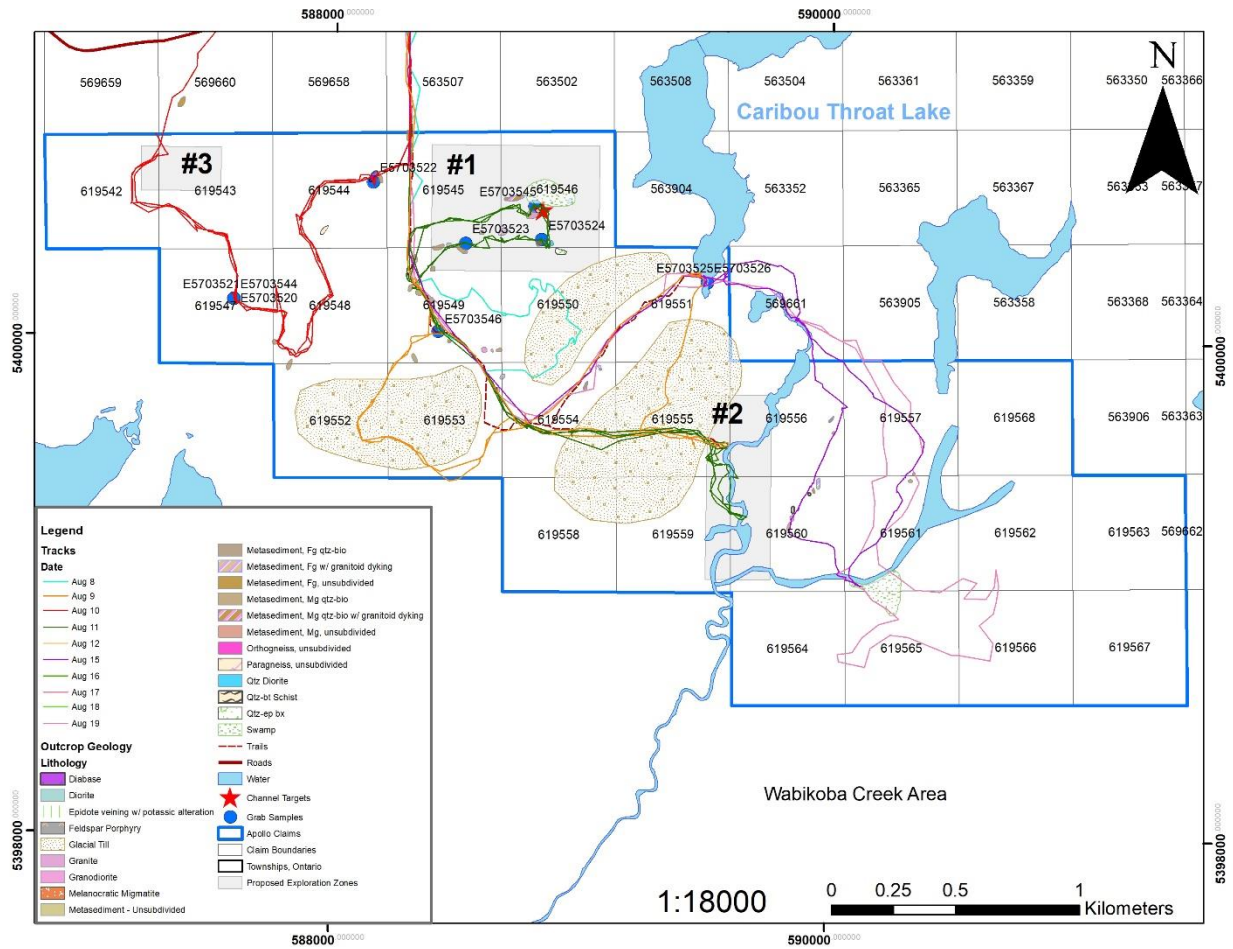


Figure 3. West Block.

### LAKE AREAS

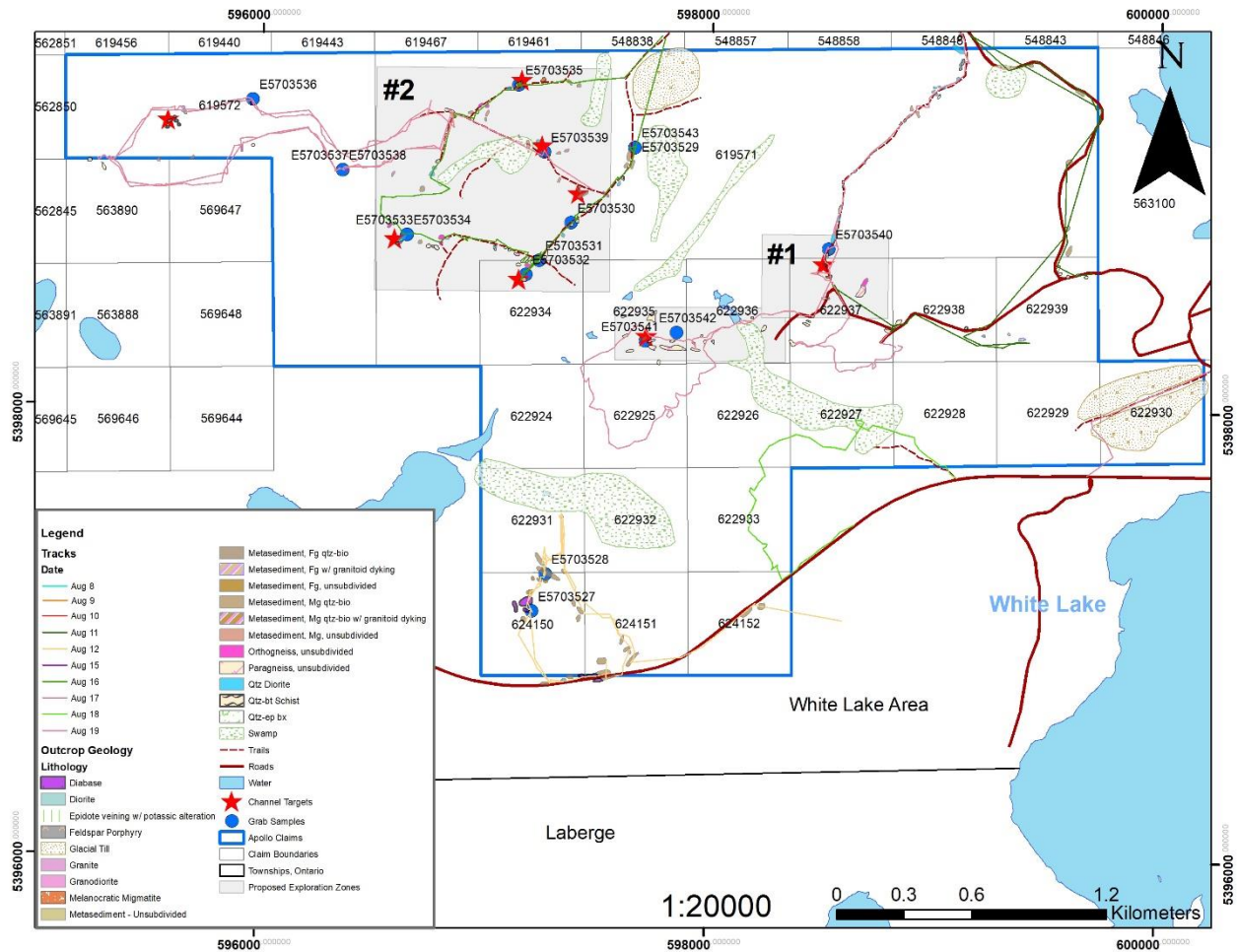


Figure 4. East Block.

## Recommendations

The geological mapping and prospecting program identified five prospective areas for additional work. It is recommended that follow up mapping and sampling in greater detail be conducted at these locations.

Samples should be taken from eight locations that have been indicated on the east block map (Figure 4). At these locations a sample could not be acquired and follow up sampling, requiring use of a diamond saw should be undertaken

A more detailed description of the five recommended prospective areas from the West and East block are discussed below.



## The West Block

**#1** - The area was mapped on Aug 11<sup>th</sup> and is located in a swampy low land with outcrops of hydrothermal alteration. This area had the most interesting geology and two samples from the area were collected. The area has a massive feldspathic rock containing hydrothermal quartz vugs and veins, with epidote, potassic alteration and sulphide mineralization associated with a breccia unit. This area should be revisited for additional detailed mapping and sampling.





**#2** - The Wabikoba Creek area had visual evidence of historic exploration that was targeting creek sediments. At Caribou Throat Lake there were multiple old trenches and evidence of a dam at the south end of the lake. An old camp site was located south of Caribou Throat Lake and west of Wabikoba Creek. The area also had evidence of what looked to be old sluice boxes and an old framed 1.5mx1.5m shaft or pit. These were all located on the creek shore and according to old claim map research, this work likely dates back to the 1940's.





**#3** - The “P anomaly” area was indicated in a 1984 assessment report by Golden Century Resources. This anomaly is a combination of magnetics and soil geochemistry. The magnetic survey shows a linear mag feature coinciding with a few anomalous gold soil samples. During the mapping program samples were collected from a seasonal creek directly on bedrock which is located down stream of the “P anomaly”. If the samples come back with anomalous gold values, the area should be considered for detailed mapping and prospecting.

## The East Block

**#1** – The Power Line area had very interesting outcrop, including metasediments which contained sulphide burns and localized areas of sulphide mineralization in fresh unweather rock. The rock contained 1-3% disseminated sulphide mineralization and is hosted in a quartz eye – muscovite schist with boudinage quartz veins. Two samples were collected from the area and further mapping and prospecting is warranted.



**LAKE AREAS**

Approximately 900m to the northeast, just to the north of the power lines is another zone of interest. At this location the metasediments have a high degree of metamorphism and have undergone partial melting, creating migmatites. These migmatites contain leucosomes and melt pods with patches of sulphides and is cut by a small feldspar porphyry dyke.





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## 2022 GEOLOGICAL MAPPING, GRASSROOTS PROSPECTING AND SAMPLING IN WABIKOBA AND WHITE LAKE AREAS

**#2** – This 1km N/S x 1km E/W block of metasediments include several feldspar porphyry zones with blebby and vein type sulphide mineralization. These zones are also crosscut by late-stage quartz veining. The majority of these outcrops require diamond saw to collect an adequate sample.



## References

- Andrew G. Tomkins, David R. M. Pattison, Eva Zaleski; The Hemlo Gold Deposit, Ontario: An Example of Melting and Mobilization of a Precious Metal-Sulfosalt Assemblage during Amphibolite Facies Metamorphism and Deformation. *Economic Geology* 2004;; 99 (6): 1063–1084. doi: <https://doi.org/10.2113/gsecongeo.99.6.1063>
- Donald W. Davis, Shoufa Lin; Unraveling the Geologic History of the Hemlo Archean Gold Deposit, Superior Province, Canada: A U-Pb Geochronological Study. *Economic Geology* 2003;; 98 (1): 51–67. doi: <https://doi.org/10.2113/gsecongeo.98.1.51>
- Smith, G. K. (1985, January). Golden Terraces Resources Hemlo - "White Lake" Property 1983-1984 Exploration Report. Retrieved August 24, 2022.



## Certificate of Author

- 1) I am a Geological Engineering Tech with residence in Sudbury, Ontario and currently employed as Operations Manager for Inventus Mining Corp.
2. I am an Associate Member #921699 of the Ontario Association of Certified Engineering Technicians and Technologists.
3. I graduated from Cambrian College with a Diploma in Mining/Geological Engineering Technology.
4. I do not have nor expect an interest in the properties and securities of Apollo Exploration.
5. I am not aware of any material fact or material change with respect to the subject matter of this report, the omission to disclose which makes this report misleading.
6. I am independent of Apollo Exploration., applying all tests in section 1.5 of NI43-101. I am under contract to the company.
7. As of the date of this certificate, and to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information related to the program here in described.

Dated: Oct 24<sup>th</sup>, 2022

Signed:



Winston Whymark

---

## Appendix

- Invoices
- Cost Break Down
- Assay Cert



## ANALYSIS REPORT BBM22-21409

To INVENTUS MINING CORP  
WESLEY WHYMARK  
1-1785 FROBISHER ST.  
SUDBURY P3A 6C8  
ON  
CANADA

Project	Apollo Exploration / Hemlo Project	Date Received	19-Sep-2022
Submission Number	APOLLO_EXPLORATION- HEMLO_PROJECT / 29 Samples	Date Analysed	15-Sep-2022 - 18-Oct-2022
Number of Samples	29	Date Completed	18-Oct-2022
		SGS Order Number	BBM22-21409

### Methods Summary

Number of Sample	Method Code	Description
29	G_WGH_KG	Weight of samples received
29	GE_FAI50V5	Au, Pt, Pd, FAS, exploration grade, ICP-AES, 50g-5mL
21	GE_ICP40Q12	4 Acid Digest (HCL/HClO4/HF/HNO3), ICP
21	GE_IMS40Q12	4 Acid Digest Package (HCL/HClO4/HF/HNO3),ICP-MS

### Comments

Preparation of samples was performed at the SGS Sudbury  
Analysis of samples was performed at the SGS Burnaby site

Authorised Signatory

John Chiang  
Laboratory Operations Manager



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**WARNING:** The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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MIN-M\_COA\_ROW-Last Modified Date: 05-Nov-2019



Project Apollo Exploration / Hemlo Project  
 Submission Number APOLLO\_EXPLORATION-  
 HEMLO\_PROJECT / 29 Samples  
 Number of Samples 29

**ANALYSIS REPORT BBM22-21409**

Element Method	WTG G_WGH_KG	@Au GE_FAI50V5	@Al GE_ICP40Q12	@Ba GE_ICP40Q12	@Ca GE_ICP40Q12	@Cr GE_ICP40Q12
Lower Limit	0.01	1	0.01	1	0.005	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
E5703519	0.65	1	-	-	-	-
E5703520	0.82	1	-	-	-	-
E5703521	1.19	<1	-	-	-	-
E5703525	0.25	17	-	-	-	-
E5703526	2.34	1	-	-	-	-
E5703537	0.73	<1	-	-	-	-
E5703538	0.54	1	-	-	-	-
E5703522	1.31	<1	7.84	1110	2.159	86
E5703523	0.92	<1	7.69	653	3.019	109
E5703524	1.04	<1	8.15	253	2.980	650
E5703527	1.54	2	5.73	203	4.458	15
E5703528	0.41	<1	7.57	921	3.860	43
E5703529	0.82	2	7.45	304	3.357	81
E5703530	0.29	<1	7.87	1141	1.669	8
E5703531	0.14	<1	7.95	1545	3.161	38
E5703532	0.16	32	5.33	282	1.846	24
E5703533	0.97	<1	7.80	1089	3.652	109
E5703534	1.39	1	7.67	1726	2.953	81
E5703535	1.20	<1	6.71	578	5.870	312
E5703536	0.49	1	7.28	129	7.485	211
E5703539	0.60	<1	7.85	982	4.101	79
E5703540	0.31	<1	7.37	366	2.464	33
E5703541	1.70	3	7.20	284	3.868	95
E5703542	0.88	1	7.36	400	4.027	97
E5703543	0.42	6	7.52	467	1.242	42
E5703544	0.74	<1	7.33	654	1.799	14
E5703545	2.11	<1	5.27	490	4.772	38
E5703546	0.17	<1	8.02	339	1.974	14
E5703547	0.49	<1	-	-	-	-

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Project Apollo Exploration / Hemlo Project  
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 HEMLO\_PROJECT / 29 Samples  
 Number of Samples 29

## ANALYSIS REPORT BBM22-21409

Element	WTG	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAI50V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	1	0.005	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Std OREAS 601b	-	-	6.27	1496	0.841	26
*Blk BLANK	-	-	<0.01	<1	<0.005	<1
*Rep E5703534	-	-	7.68	1732	2.973	74
*Std OREAS 905	-	-	7.11	2638	0.560	16
*Std SL105	-	5210	-	-	-	-
*Rep E5703542	-	1	-	-	-	-
*Std OREAS 501d	-	231	-	-	-	-
*Blk BLANK	-	1	-	-	-	-

Element	@Cu	@Fe	@K	@Mg	@Mn	@Na
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	0.002	2	0.005
Upper Limit	10,000	15	15	15	10,000	15
Unit	ppm m / m	%	%	%	ppm m / m	%
E5703522	33.4	3.10	1.95	1.482	514	3.058
E5703523	43.8	3.67	1.29	1.829	562	3.416
E5703524	50.8	6.87	0.99	3.339	1184	2.271
E5703527	320	12.05	0.79	1.563	1608	1.988
E5703528	5.5	2.63	2.65	0.362	239	2.423
E5703529	1.8	3.34	1.32	1.143	596	2.875
E5703530	7.5	1.39	2.29	0.521	143	3.469
E5703531	26.3	3.87	2.17	1.426	592	3.135
E5703532	838	>15.00	0.75	0.498	416	2.163
E5703533	23.9	4.28	2.58	2.099	707	2.898
E5703534	23.5	3.68	3.42	1.750	623	2.447
E5703535	43.9	7.23	1.20	4.864	1237	2.422
E5703536	111	7.13	0.64	4.651	1630	1.504
E5703539	27.6	4.57	1.88	2.208	764	3.209
E5703540	18.0	2.29	1.16	0.591	404	3.470

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received





Project Apollo Exploration / Hemlo Project  
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 Number of Samples 29

## ANALYSIS REPORT BBM22-21409

Element	@Cu	@Fe	@K	@Mg	@Mn	@Na
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	0.002	2	0.005
Upper Limit	10,000	15	15	15	10,000	15
Unit	ppm m / m	%	%	%	ppm m / m	%
E5703541	52.1	10.07	0.87	2.203	1469	2.486
E5703542	53.2	7.92	0.89	2.475	1121	2.872
E5703543	25.3	2.69	1.31	1.164	383	3.606
E5703544	41.9	2.83	2.52	0.981	463	2.750
E5703545	3.6	3.75	1.41	1.084	578	1.829
E5703546	10.8	1.70	0.95	0.426	206	4.014
*Std OREAS 601b	1010	2.28	2.28	0.094	211	1.907
*Blk BLANK	<0.5	<0.01	<0.01	<0.002	<2	<0.005
*Rep E5703534	23.7	3.68	2.90	1.760	627	2.446
*Std OREAS 905	1543	4.06	2.77	0.267	362	2.388

Element	@Ni	@P	@S	@Sr	@Ti	@V
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	1	0.001	0.005	0.5	0.001	2
Upper Limit	10,000	15	5	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
E5703522	68	0.092	0.141	705	0.288	87
E5703523	70	0.094	0.129	1035	0.310	92
E5703524	137	0.050	0.008	456	0.552	227
E5703527	64	0.194	0.644	168	0.960	229
E5703528	23	0.050	0.056	988	0.187	59
E5703529	72	0.071	0.009	661	0.450	82
E5703530	7	0.044	0.017	850	0.160	26
E5703531	14	0.131	0.127	1171	0.344	91
E5703532	27	0.037	>5.000	355	0.290	116
E5703533	17	0.139	0.099	1042	0.375	116
E5703534	17	0.117	0.079	1060	0.313	96
E5703535	84	0.192	0.060	955	0.545	213
E5703536	96	0.037	0.090	194	0.454	226

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Project Apollo Exploration / Hemlo Project  
 Submission Number APOLLO\_EXPLORATION-  
 HEMLO\_PROJECT / 29 Samples  
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## ANALYSIS REPORT BBM22-21409

Element Method	@Ni GE_ICP40Q12	@P GE_ICP40Q12	@S GE_ICP40Q12	@Sr GE_ICP40Q12	@Ti GE_ICP40Q12	@V GE_ICP40Q12
<b>Lower Limit</b>	1	0.001	0.005	0.5	0.001	2
<b>Upper Limit</b>	10,000	15	5	10,000	15	10,000
<b>Unit</b>	ppm m / m	%	%	ppm m / m	%	ppm m / m
E5703539	27	0.140	0.229	1114	0.377	121
E5703540	24	0.043	0.049	549	0.213	60
E5703541	81	0.065	0.100	488	1.064	175
E5703542	66	0.060	0.161	474	0.964	160
E5703543	31	0.060	0.162	531	0.284	57
E5703544	8	0.060	0.080	635	0.225	64
E5703545	17	0.079	0.045	1281	0.422	134
E5703546	9	0.031	0.042	664	0.155	33
*Std OREAS 601b	6	0.028	1.453	230	0.127	12
*Blk BLANK	<1	<0.001	<0.005	0.6	<0.001	<2
*Rep E5703534	17	0.117	0.078	1057	0.315	96
*Std OREAS 905	8	0.027	0.066	150	0.117	10

Element Method	@Zn GE_ICP40Q12	@Zr GE_ICP40Q12	@Ag GE_IMS40Q12	@As GE_IMS40Q12	@Be GE_IMS40Q12	@Bi GE_IMS40Q12
<b>Lower Limit</b>	1	0.5	0.02	1	0.05	0.01
<b>Upper Limit</b>	10,000	10,000	100	10,000	2,500	10,000
<b>Unit</b>	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
E5703522	55	104	0.06	<1	1.37	0.10
E5703523	81	83.6	0.09	<1	1.32	0.07
E5703524	130	70.0	0.07	<1	0.77	0.12
E5703527	157	270	0.28	<1	1.48	0.10
E5703528	14	60.6	0.07	<1	0.88	0.27
E5703529	54	46.8	0.04	<1	1.17	0.55
E5703530	43	103	0.04	<1	1.13	0.03
E5703531	82	106	0.13	<1	1.58	0.10
E5703532	52	34.1	2.55	<1	0.57	1.00
E5703533	111	98.7	0.41	<1	1.71	0.25
E5703534	76	99.4	0.16	<1	1.60	0.29

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Project Apollo Exploration / Hemlo Project  
 Submission Number APOLLO\_EXPLORATION-  
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Element	@Zn	@Zr	@Ag	@As	@Be	@Bi
Method	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	1	0.5	0.02	1	0.05	0.01
Upper Limit	10,000	10,000	100	10,000	2,500	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
E5703535	117	25.3	0.07	<1	1.20	0.07
E5703536	59	41.2	0.06	<1	0.32	0.02
E5703539	89	82.9	0.16	<1	1.76	0.12
E5703540	54	54.3	0.07	<1	1.03	0.10
E5703541	101	57.3	0.16	<1	0.74	0.19
E5703542	112	79.0	0.14	<1	1.06	0.20
E5703543	53	71.0	0.11	<1	1.04	0.12
E5703544	68	55.8	0.37	<1	2.57	0.40
E5703545	68	65.5	0.04	<1	0.73	0.12
E5703546	47	28.6	0.05	<1	0.78	0.17
*Std OREAS 601b	317	177	48.82	287	2.40	17.39
*Blk BLANK	<1	<0.5	<0.02	<1	<0.05	<0.01
*Rep E5703534	76	106	0.16	<1	1.55	0.29
*Std OREAS 905	138	247	0.56	33	3.01	5.79

Element	@Cd	@Ce	@Co	@Cs	@Ga	@Hf
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.05	0.1	0.05	0.05	0.02
Upper Limit	10,000	1,000	10,000	1,000	1,000	500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
E5703522	0.07	52.40	17.0	1.34	20.30	2.96
E5703523	0.08	65.62	19.2	1.67	21.24	2.33
E5703524	0.16	10.62	39.6	2.75	21.96	2.16
E5703527	0.34	58.33	48.9	5.67	22.73	7.47
E5703528	0.05	27.23	12.0	0.88	23.50	1.87
E5703529	0.18	43.37	13.8	2.70	26.86	1.45
E5703530	0.03	32.56	5.3	2.29	20.20	2.83
E5703531	0.11	71.80	11.0	1.29	21.35	2.93
E5703532	0.08	11.75	103	1.86	18.79	1.10

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



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**ANALYSIS REPORT BBM22-21409**

Element	@Cd	@Ce	@Co	@Cs	@Ga	@Hf
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.05	0.1	0.05	0.05	0.02
Upper Limit	10,000	1,000	10,000	1,000	1,000	500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
E5703533	0.23	62.01	12.4	5.90	21.68	2.83
E5703534	0.20	54.24	10.1	5.28	20.25	2.93
E5703535	0.13	56.36	37.4	0.54	20.61	1.32
E5703536	0.09	13.23	48.1	2.98	14.69	1.24
E5703539	0.12	59.53	15.4	1.10	20.92	2.45
E5703540	0.06	35.14	10.0	1.23	20.92	1.57
E5703541	0.09	11.80	34.1	2.11	20.90	1.80
E5703542	0.10	15.75	33.5	4.48	22.01	2.52
E5703543	0.04	40.83	13.1	3.00	19.52	1.95
E5703544	0.04	39.62	9.3	6.78	25.14	1.65
E5703545	0.02	51.20	15.5	0.56	18.72	1.81
E5703546	0.04	24.32	5.7	1.34	20.71	0.78
*Std OREAS 601b	2.08	67.26	3.0	4.71	23.43	4.92
*Blk BLANK	<0.02	<0.05	<0.1	<0.05	<0.05	0.04
*Rep E5703534	0.19	54.80	9.9	5.09	20.03	3.05
*Std OREAS 905	0.36	93.15	14.7	6.90	24.65	6.87

Element	@In	@La	@Li	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.005	0.05	0.2	0.01	0.05	0.1
Upper Limit	500	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
E5703522	0.032	22.60	17.0	0.18	1.37	5.2
E5703523	0.036	28.46	17.8	0.16	1.50	4.5
E5703524	0.070	4.49	42.2	0.30	1.44	3.7
E5703527	0.148	24.81	14.1	1.25	1.43	13.3
E5703528	0.025	9.02	3.4	0.06	1.22	3.0
E5703529	0.036	17.11	8.0	0.11	1.46	6.5
E5703530	0.010	13.90	12.3	0.05	1.00	2.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received





Project Apollo Exploration / Hemlo Project  
 Submission Number APOLLO\_EXPLORATION-  
 HEMLO\_PROJECT / 29 Samples  
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## ANALYSIS REPORT BBM22-21409

Element	@In	@La	@Li	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.005	0.05	0.2	0.01	0.05	0.1
Upper Limit	500	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
E5703531	0.047	21.60	9.5	0.16	7.87	6.5
E5703532	0.042	4.64	10.0	0.08	4.24	2.7
E5703533	0.049	22.09	7.2	0.16	0.91	5.6
E5703534	0.043	20.15	7.5	0.13	1.25	4.8
E5703535	0.078	18.24	12.7	0.34	0.67	6.5
E5703536	0.052	5.33	15.8	0.25	0.47	4.0
E5703539	0.051	21.28	6.9	0.18	0.62	5.1
E5703540	0.026	14.72	11.1	0.10	1.10	2.5
E5703541	0.060	4.21	16.2	0.25	1.19	6.3
E5703542	0.065	4.98	17.0	0.24	0.63	6.3
E5703543	0.023	16.69	28.3	0.08	0.98	2.9
E5703544	0.039	17.37	20.1	0.22	0.88	7.1
E5703545	0.061	22.64	19.2	0.20	0.76	4.8
E5703546	0.012	10.79	13.2	0.03	0.63	1.5
*Std OREAS 601b	0.464	33.47	22.5	0.07	4.97	14.9
*Blk BLANK	<0.005	<0.05	<0.2	<0.01	<0.05	<0.1
*Rep E5703534	0.040	19.81	7.6	0.13	1.17	4.8
*Std OREAS 905	0.646	44.21	19.8	0.10	3.44	17.3

Element	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.1	0.05	0.1	1	0.2
Upper Limit	10,000	10,000	10,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
E5703522	15.6	50.0	<0.05	10.9	<1	1.0
E5703523	11.6	40.9	<0.05	11.1	<1	0.9
E5703524	7.4	32.6	<0.05	31.5	<1	0.8
E5703527	7.1	49.0	<0.05	33.6	4	2.6
E5703528	7.2	74.8	<0.05	6.6	<1	0.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Project Apollo Exploration / Hemlo Project  
 Submission Number APOLLO\_EXPLORATION-  
 HEMLO\_PROJECT / 29 Samples  
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## ANALYSIS REPORT BBM22-21409

Element	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.1	0.05	0.1	1	0.2
Upper Limit	10,000	10,000	10,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
E5703529	7.0	41.0	0.24	8.9	<1	1.0
E5703530	14.9	50.7	0.06	2.1	<1	0.5
E5703531	15.9	48.5	0.05	9.2	<1	1.3
E5703532	8.4	28.9	<0.05	12.7	2	0.8
E5703533	101	58.7	0.12	13.0	<1	1.3
E5703534	53.8	74.5	0.13	10.7	<1	1.2
E5703535	4.4	27.6	<0.05	30.1	1	1.6
E5703536	3.9	39.5	<0.05	40.1	1	0.6
E5703539	15.8	35.8	<0.05	13.7	<1	1.3
E5703540	9.3	31.8	<0.05	7.8	<1	0.7
E5703541	6.0	33.6	<0.05	19.5	1	0.9
E5703542	6.2	35.1	<0.05	17.3	1	1.3
E5703543	6.3	35.8	0.07	6.2	<1	0.7
E5703544	15.1	77.0	0.22	12.9	<1	1.3
E5703545	4.5	36.8	<0.05	14.6	<1	0.9
E5703546	7.0	27.0	<0.05	2.7	<1	0.5
*Std OREAS 601b	312	98.3	23.46	3.7	10	3.6
*Blk BLANK	0.7	<0.1	<0.05	<0.1	<1	<0.2
*Rep E5703534	53.7	61.9	0.13	10.5	<1	1.1
*Std OREAS 905	30.5	136	1.92	4.9	3	4.5

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.01	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
E5703522	0.45	0.44	0.05	6.52	0.28	1.44
E5703523	0.33	0.48	<0.05	4.20	0.24	0.83
E5703524	0.38	0.39	<0.05	1.67	0.21	0.55

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Project Apollo Exploration / Hemlo Project  
 Submission Number APOLLO\_EXPLORATION-  
 HEMLO\_PROJECT / 29 Samples  
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**ANALYSIS REPORT BBM22-21409**

Element Method Lower Limit Upper Limit Unit	@Ta GE_IMS40Q12 0.05 10,000 ppm m / m	@Tb GE_IMS40Q12 0.05 10,000 ppm m / m	@Te GE_IMS40Q12 0.05 1,000 ppm m / m	@Th GE_IMS40Q12 0.01 10,000 ppm m / m	@Tl GE_IMS40Q12 0.02 10,000 ppm m / m	@U GE_IMS40Q12 0.05 10,000 ppm m / m
E5703527	0.90	1.87	0.14	4.86	0.28	1.19
E5703528	0.20	0.14	0.05	2.01	0.48	0.48
E5703529	0.38	0.37	<0.05	2.70	0.25	1.05
E5703530	0.20	0.11	<0.05	2.40	0.27	0.67
E5703531	0.47	0.60	0.05	6.49	0.26	1.80
E5703532	0.18	0.17	0.41	2.23	0.17	0.60
E5703533	0.36	0.53	<0.05	7.44	0.34	1.91
E5703534	0.31	0.41	0.05	6.58	0.43	2.66
E5703535	0.44	0.82	<0.05	1.84	0.16	0.70
E5703536	0.27	0.39	<0.05	0.85	0.16	0.19
E5703539	0.32	0.57	0.08	6.06	0.20	1.58
E5703540	0.18	0.24	<0.05	3.06	0.16	1.02
E5703541	0.38	0.65	0.07	0.85	0.26	0.18
E5703542	0.38	0.62	0.06	1.44	0.24	0.48
E5703543	0.16	0.28	0.05	2.61	0.24	0.77
E5703544	0.37	0.35	<0.05	5.01	0.39	2.42
E5703545	0.29	0.54	<0.05	2.43	0.22	0.45
E5703546	0.12	0.11	<0.05	1.05	0.15	0.15
*Std OREAS 601b	1.14	0.52	13.00	12.62	1.50	4.81
*Blk BLANK	<0.05	<0.05	<0.05	0.05	<0.02	<0.05
*Rep E5703534	0.32	0.41	<0.05	6.68	0.44	2.66
*Std OREAS 905	1.33	0.78	0.07	15.06	0.71	5.11

Element Method Lower Limit Upper Limit Unit	@W GE_IMS40Q12 0.1 10,000 ppm m / m	@Y GE_IMS40Q12 0.1 10,000 ppm m / m	@Yb GE_IMS40Q12 0.1 1,000 ppm m / m
E5703522	0.3	11.7	1.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Project Apollo Exploration / Hemlo Project  
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Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
E5703523	0.2	12.2	1.1
E5703524	0.5	14.1	1.8
E5703527	1.3	66.6	7.8
E5703528	0.3	3.8	0.4
E5703529	0.9	8.9	0.7
E5703530	0.2	2.8	0.3
E5703531	0.5	13.8	1.1
E5703532	0.4	5.0	0.5
E5703533	1.0	12.5	1.0
E5703534	0.8	9.6	0.8
E5703535	0.1	23.2	2.2
E5703536	0.2	14.2	1.6
E5703539	0.6	13.4	1.2
E5703540	0.3	6.4	0.6
E5703541	0.6	19.2	1.6
E5703542	0.6	17.8	1.6
E5703543	0.3	6.3	0.5
E5703544	0.3	11.5	1.3
E5703545	0.3	15.2	1.2
E5703546	0.2	2.5	0.2
*Std OREAS 601b	6.0	11.4	0.6
*Blk BLANK	<0.1	<0.1	<0.1
*Rep E5703534	0.8	9.3	0.8
*Std OREAS 905	2.9	15.6	0.7

SGS Canada Minerals Burnaby conforms to the requirements of ISO/IEC17025 for specific tests as listed on their scope of accreditation found at <https://www.scc.ca/en/search/laboratories/sgs>  
 Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



## 2022 Daily Activities Log: "HEES" Project - Apollo Exploration

### Mapping/Prospecting

Date	Names	Work type
Aug 7 <sup>th</sup>	Winston/Alec	Travel
Aug 8 <sup>th</sup>	Winston/Alec	Prospecting/mapping west block see track on map figure #3
Aug 9 <sup>th</sup>	Winston/Alec	Prospecting/mapping west block see track on map figure #3
Aug 10 <sup>th</sup>	Winston/Alec	Prospecting/mapping west block see track on map figure #3. Collected 4 samples E5703519-E5703522 see sample description on table #1
Aug 11 <sup>th</sup>	Winston/Alec	Prospecting/mapping west block see track on map figure #3. Collected 2 samples E5703523-E5703524 see sample description on table #1
Aug 12 <sup>th</sup>	Winston/Alec	Prospecting East block see track on map figure #2. Collected 2 samples E5703527-E5703528 see sample description in sample table #1
Aug 13 <sup>th</sup>	Winston/Alec	Travel
Aug 14 <sup>th</sup>	Winston/Alec	Travel
Aug 15 <sup>th</sup>	Winston/Alec	Prospecting East block see track on map figure #2. Collected 2 samples E5703525-E5703526 see sample description in sample table #1
Aug 16 <sup>th</sup>	Winston/Alec	Prospecting East block see track on map figure #2. Collected 8 samples E5703529-E5703535 & E5703543 see sample description in sample table #1
Aug 17 <sup>th</sup>	Winston/Alec	Prospecting/mapping west block see track on map figure #3. Collected 7 samples E5703536-E5703542 see sample description in sample table #1
Aug 18 <sup>th</sup>	Winston/Alec	Prospecting East block see track on map figure #2. Collected 1 sample E5703544 see sample description in sample table #1
Aug 19 <sup>th</sup>	Winston/Alec	Prospecting/mapping west block see track on map figure #3. Collected 2 samples E5703545-E5703546 see sample description in sample table #1
Aug 20 <sup>th</sup>	Winston/Alec	Travel