

BC Geological Survey
Assessment Report
41847



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: 2023 Technical & Prospecting Report "Gem Hunter Claim"

TOTAL COST: \$1,139.94

AUTHOR(S): Giacomo Grassi

SIGNATURE(S):

A handwritten signature in black ink, appearing to read "G. Grassi".

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S) : 6003584

YEAR OF WORK: 2023

PROPERTY NAME: Gem Hunter

CLAIM NAME(S) (on which work was done): 1099894

COMMODITIES SOUGHT: Beryl, Beryllium, REE, Other Minerals, Gemstones, Tourmaline

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Forte Steele

NTS / BCGS: 082F060

LATITUDE: ___ 49 ___ ° ___ 35 ___ ' ___ 0.5 ___ "

LONGITUDE: ___ 116 ___ ° ___ 9 ___ ' ___ 50.1 ___ " (at centre of work)

UTM Zone: 11 EASTING: 560435 NORTHING: 5492656

OWNER(S): Giacomo Grassi

MAILING ADDRESS:

2404 29 Avenue SW

Calgary, AB T2T1N9

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

MAILING ADDRESS: same as above

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**): Hellroaring Creek, Tourmaline, Muscovite, Quartz, Pegmatite, Feldspar, Gabbroic Moyie Sills, Aldridge Formation, Proterozoic Purcell Supergroup,

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil			
Silt			
Rock ICP-30	19 samples assayed	1099894	\$614.47
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)	Labour, Other Expenses	1099894	\$525.47
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
Other			
		TOTAL COST	\$1,139.94

2023

Prospecting & Geochemical Report
“Gem Hunter”

Tenure# 1099894 Event# 6003584

Claim Name: Gem Hunter

Fort Steele Mining Division

Map 082F

Tenure Coordinate Reference

Latitude: **49°35'0.5** & Longitude: **116°9'50.1**

Report By: Giacomo Grassi

Client ID# 282276

November 12th 2023

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Introduction

This prospecting report is based on observations and assay results that were completed on the “Gem Hunter” claim (1099894) in 2023. The claim is comprised of 8 cells, or 167.54 hectares. Physical work was done on June 10th, 2023 and assay results were received on July 25th and August 4th, 2023. The purpose of this work program was to find and test for rare earth mineralization. Other claims in the area have discovered pegmatites, along with rare earth elements, including some reports that mention tourmaline and beryl crystals.

References:

MINFILES# 082FNE202, 082FNE062, 082FNE168

ARIS# 16971, 38334, 25808, 26693, 31009, 34960, 26501, 36144, 14335

Publications:

https://cmscontent.nrs.gov.bc.ca/geoscience/publicationcatalogue/Paper/BCGS_P2012-01-13_Soloviev.pdf

https://cmscontent.nrs.gov.bc.ca/geoscience/PublicationCatalogue/GeoFile/BCGS_GF2005-19.pdf

https://cmscontent.nrs.gov.bc.ca/geoscience/PublicationCatalogue/Paper/BCGS_P2004-01-22_Legun.pdf?bcgovtm=stua2019

Location and Access

The Gem Hunter claim is located roughly 12 kilometers south west of Kimberley, BC. You can access to the claim by going west on St Mary’s Lake Road and then south on Hellroaring Forest Service Road. The property is easily accessible and road is fairly well maintained.

Summary & Conclusion

On June 10th 2023, a prospecting program was conducted on the Gem Hunter claim to look for pegmatite outcrops, as well as take samples from the area. No pegmatite outcrops were discovered, but some pegmatite float was found, along with black tourmaline. On June 12th 2023, 19 of 25 samples were brought to Loring Tarcove Labs for ICP-30 chemical analysis.

Results from the 19 samples are mixed, but do show elevated levels of Beryllium, Scandium, Tungsten, Chromium, Titanium, Vanadium, Zinc, and Zirconium. More exploration and chemical analysis is required, but initial results are encouraging.

Summary of Exploration Expenditures

Work Date – June 10th, 2023

Labourer X 2 @ \$35 X 3 hours.....	\$210.00
Meals.....	\$79.72
Lodging.....	\$235.75
Geochemical Assay Testing.....	<u>\$614.47</u>
Total	\$1,139.94

Qualifications for Giacomo Grassi

- Graduate Gemologist (GIA: Diamonds & Gemstones) / 10 Years
- Hard Rock Mineral Prospecting / 7 Years



Giacomo Grassi
FMC# 282276

Mineral Titles Online Viewer

Title Detail

Title Number	1099894 View Tenure 
Title Type	Mineral (M)
Title Sub Type	Claim (C)
Title Type	Mineral Cell Title Submission (MCX)
Mining Division	
Good To Date	2025/APR/30
Issue Date	2022/DEC/20
Demised To	
Termination Type	
Termination Comments	
Termination Date	
Tag Number	
Claim Name	GEM HUNTER
Old Titles Code	
Area In Hectares	167.54

Map Numbers:

[082F](#)

Owners:

[282276](#) GRASSI, GIACOMO 100.0%

Title Events:	Submitter	Event	Effective Date
	282276 GRASSI, GIACOMO	CEXT Claim Registration (Acquisition) (5961440)	2022/DEC/20
	282276 GRASSI, GIACOMO	SOW Exploration and Development Work / Expiry Date Change (6003584)	2023/NOV/06



Loring Laboratories Ltd.

6835 8 st. N.E.,
 Calgary Alberta T2E 7H7
 Tel: 403-274-2777 Fax: 403-275-0541
info@loringlabs.net

TO: Giacomo Grassi

File No: RC23-0195
 DATE: July 25, 2023

Attn:

30 ELEMENT ICP ANALYSIS

Sample No.	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
Sample 1	<1	8.25	36	48	<1	0.29	<1	3	125	26	0.62	2.95	17	0.03	951	29	3.46	7	0.10	55	<1	5	14	7	0.01	11	14	485	79	20
Sample 2	<1	7.31	26	175	<1	6.99	<1	44	416	37	6.77	0.95	10	5.20	1284	7	1.02	56	0.02	36	2	38	80	24	0.35	9	223	240	92	70
Sample 3	<1	8.15	19	119	<1	5.77	<1	8	153	49	2.27	1.96	20	2.70	1657	12	0.62	9	0.02	49	1	7	185	8	0.27	5	44	203	468	255
Sample 4	<1	6.69	17	81	<1	7.44	<1	31	443	1	5.12	0.10	9	4.05	947	3	0.39	51	0.02	39	1	25	115	19	0.24	9	181	212	86	48
Sample 5	<1	6.50	13	361	<1	3.21	<1	10	178	20	2.42	1.48	22	1.45	314	7	0.67	14	0.04	53	1	9	227	11	0.29	8	54	122	81	301
Sample 6	<1	2.11	17	149	<1	0.16	<1	3	129	115	0.51	0.37	13	0.09	52	7	1.17	6	0.01	65	<1	2	16	1	0.08	10	20	87	317	122
Sample 7	<1	2.87	31	276	<1	0.19	<1	6	228	24	1.42	1.10	15	0.49	105	6	0.19	7	0.01	69	<1	4	16	3	0.14	9	41	21	86	68
Sample 8	<1	2.14	16	47	<1	0.25	<1	5	161	21	1.50	0.09	20	2.80	101	4	0.07	27	0.02	63	<1	2	7	5	0.07	10	16	99	298	56
Sample 9	<1	6.78	11	119	<1	6.00	<1	45	131	69	8.33	0.53	23	2.66	1202	5	0.96	17	0.04	42	2	39	95	28	0.67	8	266	72	88	113
Sample 10	<1	0.19	10	49	<1	0.14	<1	3	606	26	0.68	0.06	14	0.03	82	7	0.11	13	0.01	72	<1	1	7	6	0.01	9	6	24	54	55
Sample 11	<1	7.13	<1	484	<1	5.94	<1	39	134	48	6.93	0.66	8	2.59	1101	2	1.17	18	0.03	38	2	35	94	22	0.56	5	266	76	216	159
Sample 12	<1	5.12	19	154	<1	1.55	<1	11	224	17	2.14	0.96	26	0.85	171	4	1.61	11	0.04	55	1	6	139	7	0.27	10	39	17	71	388
Sample 13	<1	4.25	8	110	<1	0.30	<1	12	216	19	1.32	0.32	29	0.27	151	8	2.45	11	0.01	61	<1	5	53	3	0.20	4	21	80	64	284
Sample 14	<1	0.13	4	58	<1	0.13	<1	14	434	20	0.39	0.05	12	0.03	64	1	0.08	14	0.01	79	<1	1	7	2	0.01	5	6	78	32	235
Sample 15	<1	5.88	<1	94	<1	5.16	<1	40	470	14	4.85	0.42	17	3.48	924	10	1.00	40	0.02	44	1	31	89	14	0.31	4	147	103	141	58
Sample 16	<1	8.92	21	1632	<1	2.26	<1	14	255	24	2.38	2.74	56	0.55	545	19	2.85	10	0.09	55	1	4	1122	10	0.27	2	35	81	83	247
Sample 17	<1	7.10	3	726	<1	3.82	<1	28	200	32	2.77	2.55	29	2.63	623	13	0.86	25	0.08	58	1	10	241	9	0.30	4	49	86	101	265
Sample 18	<1	7.08	19	134	<1	6.51	<1	48	493	25	6.34	0.58	14	4.70	1235	15	1.17	74	0.02	43	2	44	90	17	0.34	2	131	554	95	54
Sample 19	<1	8.91	5	169	<1	6.79	<1	34	139	36	7.30	0.88	22	2.45	1144	17	1.34	17	0.03	41	2	34	155	20	0.40	4	160	211	170	72
Blank	<1	<0.01	<1	<1	<1	<0.01	<1	<1	<1	<1	<0.01	<0.01	<1	<0.01	<1	<0.01	<1	<0.01	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1

* 0.05g sample is digested and ICP finished
 * Element result of <1 means it is not detected by ICP
 * Samples received on June 15,2023

Benjamin Tse
 (QC Coordinator)

Certified by:



LORING LABORATORIES LTD.

6835-8th Street N.E Calgary, Alberta T2E 7H7
 Tel : (403) 274-2777 Fax : (403) 275-0541
nfo@loringlabs.net

TO: Giacomo Grassi

File No: RC23-0195
 DATE: Aug 04, 2023

Certificate of Assay

Sample No.	Be ppm
"Assay Analysis"	
Sample 1	124
Sample 2	<1
Sample 3	2
Sample 4	<1
Sample 5	1
Sample 6	<1
Sample 7	<1
Sample 8	<1
Sample 9	<1
Sample 10	<1
Sample 11	<1
Sample 12	1
Sample 13	1
Sample 14	<1
Sample 15	<1
Sample 16	2
Sample 17	2
Sample 18	<1
Sample 19	<1

* 0.05g sample is digested and ICP finished
 * Element result of <1 means it is not detected by ICP
 * Samples received on June 15,2023

MTO Gem Hunter Location



Legend

Mineral Titles (MTO)

- MTO Grid
- Title (current)
 - LEASE
 - CLAIM
- Reserves
 - No Registration
 - Conditional
 - Heritage/Historic Site

Crown Land Layers (Tantalis)

Land Act Survey Parcels - Tantalis - Legal Descriptions

Label Text

Land Act Survey Parcels - Tantalis - Outlined

Administrative Boundaries

FADM - Designated Areas

Designated Areas

Designated Areas

Local Regional Greenspaces - Outline

Local and Regional Greenspaces

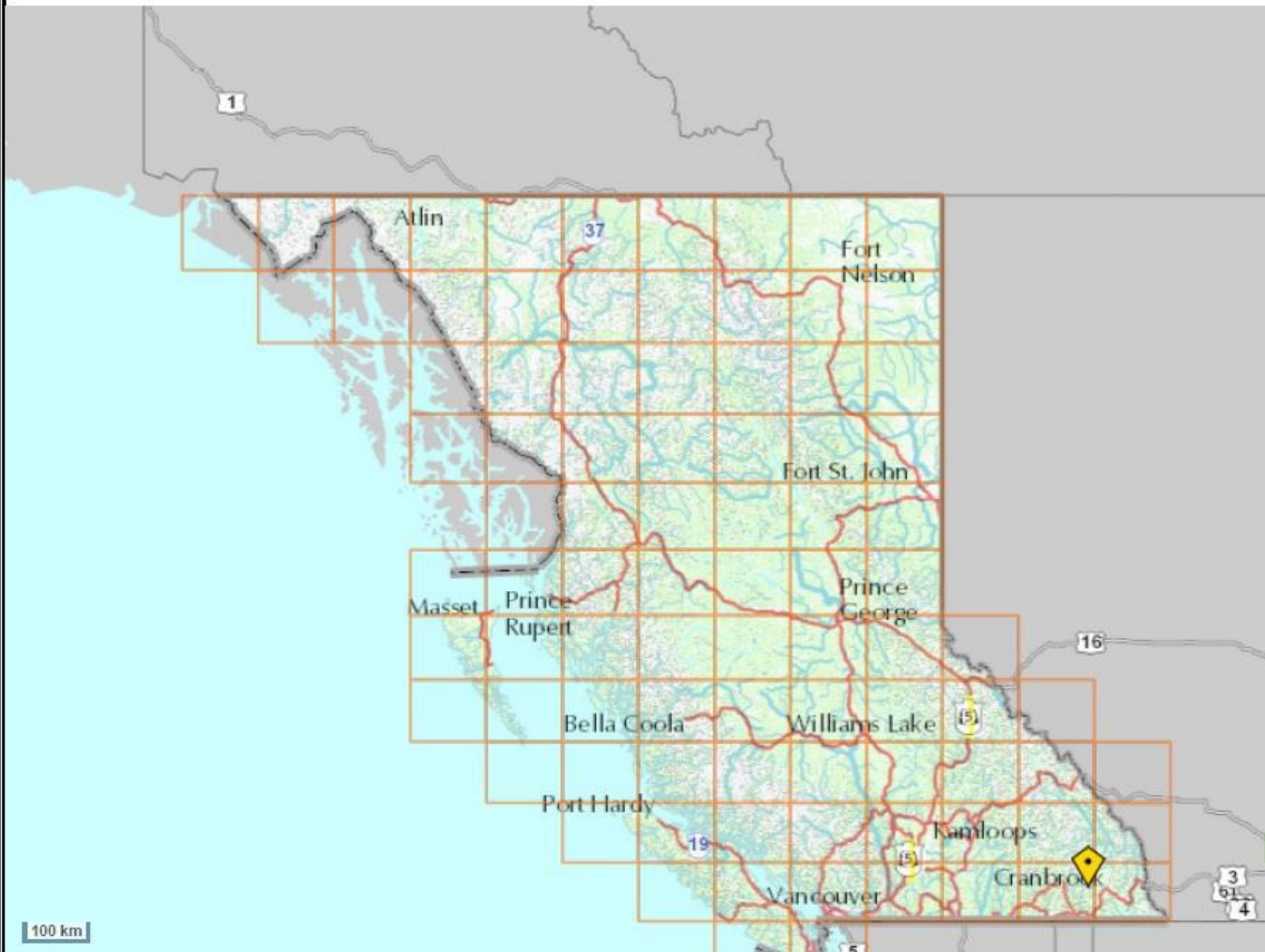
Local Regional Greenspaces - Colour Filled

Federal Transfer Lands - Outlined

Federal Transfer Lands - Colour Filled

National Parks - Outlined

National Parks - Colour Filled



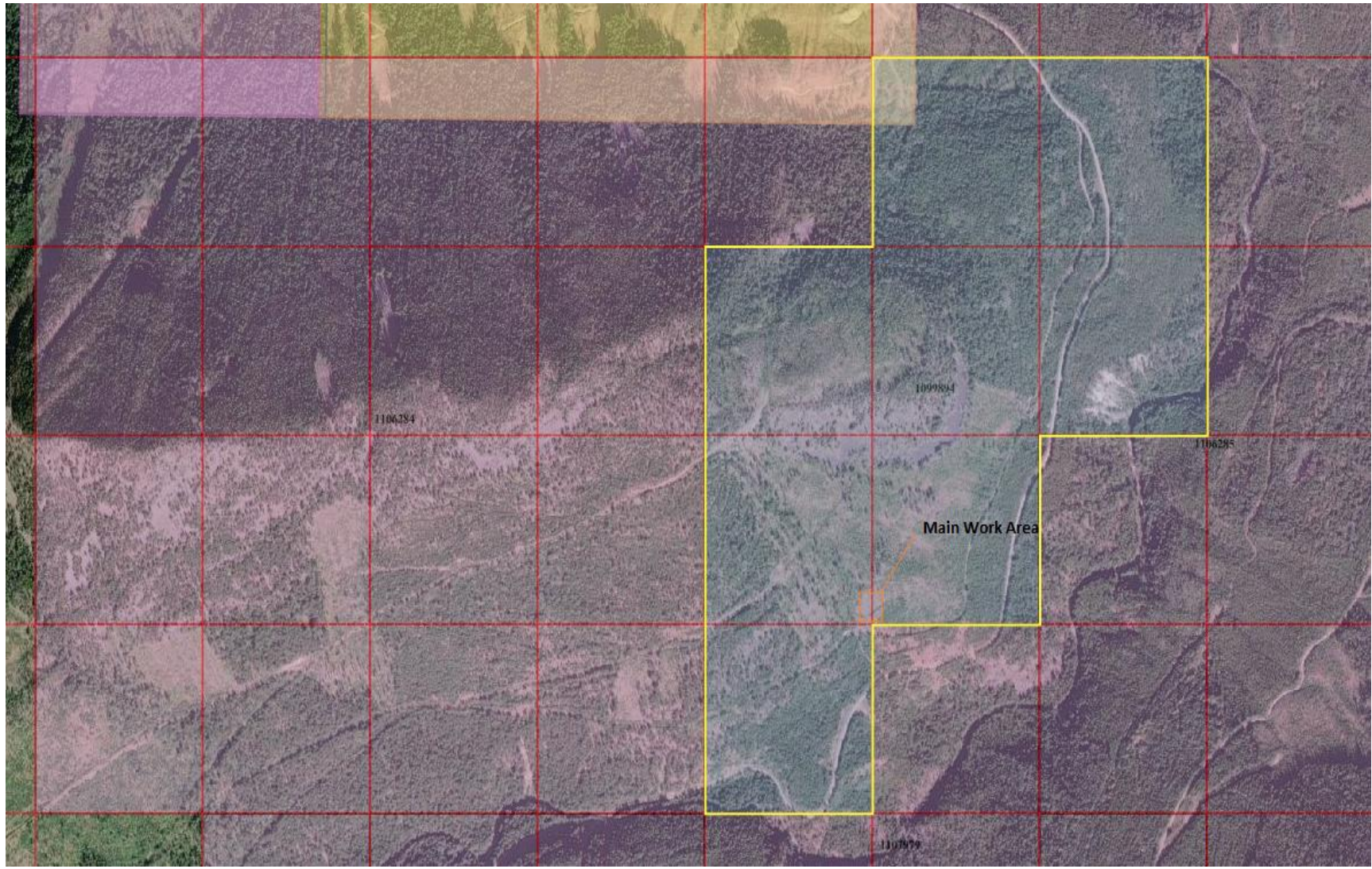
100 km

*This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION.*

Printed using the Mineral Titles Online (MTO) application.

Center: 52°7'22", -121°48'19"
 Scale: 1 : 4333429
 SRS: EPSG:3857
 UTM Zone: 10







1. UTM - Easting:560422, Northing:5492746, Zone 11
 Sample Type: Pegmatite
 Results of Interest: Beryllium(124ppm), Tungsten(485ppm)

2. UTM - Easting:560422, Northing:5492741, Zone 11
 Sample Type: Dolerite
 Results of Interest: Scandium(38ppm), Thorium(24ppm), Tungsten(240ppm)

3. UTM - Easting:560476, Northing:5492755, Zone 11
 Sample Type: Silicified Quartz
 Results of Interest: Tungsten(203ppm), Zinc(468ppm), Zirconium(255ppm)

4. UTM - Easting:560464, Northing:5492729, Zone 11
 Sample: Gabbro
 Results of Interest: Scandium(25ppm), Tungsten(212ppm)

5. UTM - Easting:560440, Northing:5492715, Zone 11
 Sample: Rusty Quarzitic Wacke?
 Results of Interest: Tungsten(122ppm), Zirconium(301ppm)

6. UTM - Easting:560454, Northing:5492714, Zone 11
 Sample: Quarzitic Wacke?
 Results of Interest: Copper(115ppm), Tungsten(87ppm), Zinc(317ppm)

7. UTM - Easting:560467, Northing:5492712, Zone 11
 Sample: Schist
 Results of Interest: None, no elevated grades

8. UTM - Easting:560484, Northing:5492710, Zone 11
 Sample: Green Quartzite
 Results of Interest: Tungsten(99ppm), Zinc(298ppm)

9. UTM - Easting:560427, Northing:5492697, Zone 11
 Sample: Gabbro
 Results of Interest: Scandium(39ppm), Thorium(28ppm), Tungsten(72ppm)

10. UTM - Easting:560445, Northing:5492697, Zone 11
 Sample: Quartzite
 Results of Interest: Chromium(606ppm)



11. UTM - Easting:560464, Northing:5492699, Zone 11
 Sample: Gabbro
 Results of Interest: Scandium(35ppm), Thorium(22ppm), Tungsten(76ppm), Zinc(26ppm)

12. UTM - Easting:560482, Northing:5492696, Zone 11
 Sample: Quarzitic Wacke
 Results of Interest: Zirconium(388ppm)

13. UTM - Easting:560417, Northing:5492673, Zone 11
 Sample: Argillite
 Results of Interest: Tungsten(80ppm), Zirconium(284ppm)

14. UTM - Easting:560431, Northing:5492682, Zone 11
 Sample: Quartzite
 Results of Interest: Tungsten(78ppm), Zirconium(235ppm)

15. UTM - Easting:560449, Northing:5492678, Zone 11
 Sample: Dolerite
 Results: Scandium(31ppm), Tungsten(103ppm), Zinc(141ppm)

16. UTM - Easting:560470, Northing:5492685, Zone 11
 Sample: Granodiorite
 Results of Interest: Strontium(1122ppm), Tungsten(81ppm), Zirconium(247ppm)

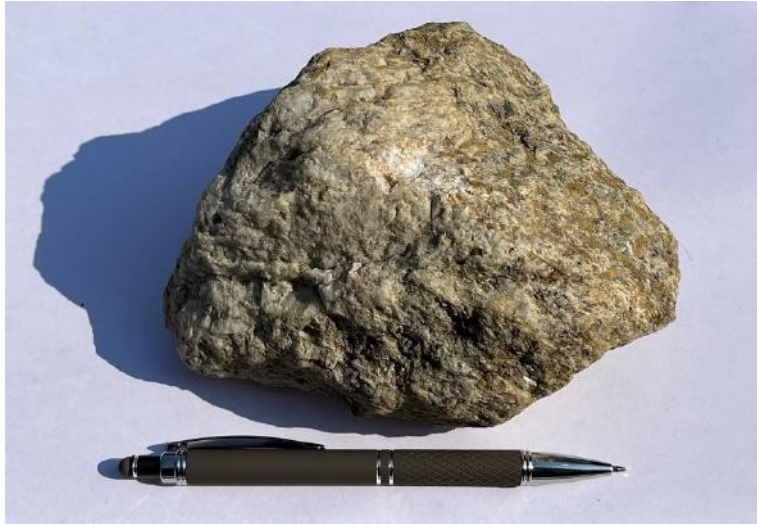
17. UTM - Easting:560440, Northing:5492666, Zone 11
 Sample: Rusty Argillite
 Results of Interest: Tungsten(86ppm), Zinc(101ppm), Zirconium(265ppm)

18. UTM - Easting:560426, Northing:5492652, Zone 11
 Sample: Gabbro
 Results of Interest: Nickel(74ppm), Scandium(44ppm), Thorium(17ppm), Tungsten(554ppm)

19. UTM - Easting:560446, Northing:5492645, Zone 11
 Sample: Gabbro
 Results of Interest: Scandium(34ppm), Thorium(20ppm), Tungsten(211ppm), Zinc(170ppm)

Gem Hunter Sample Images (1-19)

Sample 1



Sample 2



Sample 3



Sample 4



Sample 5



Sample 6



Sample 7



Sample 8



Sample 9



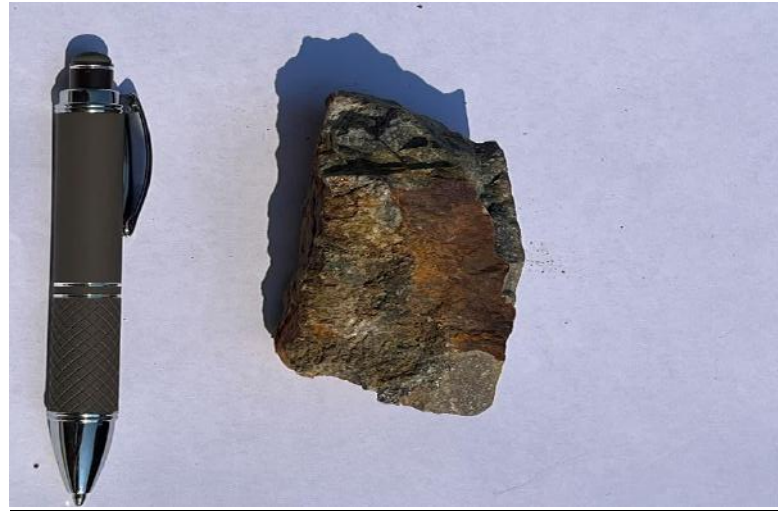
Sample 10



Sample 11



Sample 12



Sample 13



Sample 14



Sample 15



Sample 16



Sample 17



Sample 18



Sample 19



Other Samples Not Assayed



Work Area Images

