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Marathon North Platinum-Palladium Property
Prospecting Report
Prospecting and Sampling Program
2020 field season

Submitted by Scott Jobin-Bevans

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Summary

In October and November, 2020, an exploration program was initiated by Sienna Resources to prospect for Cu-PGE and also to locate access trails to the various areas of the Marathon North Platinum-Palladium Property.

The property is located within the Proterozoic Coldwell Complex, a tholeiitic-alkaline pluton on the northeastern shore of Lake Superior. The Coldwell Complex is host to numerous Cu-PGE deposits including Generation Mining Ltd.'s Marathon palladium project.

The primary objective of the current exploration program was to prospect for areas of PGE and base metal mineralization within the four separate claim areas of the property. The secondary objective was to locate access roads and trails to the claims in order to assist with prospecting and future exploration.

The property comprises four separate claim blocks: Northern, Southern, Eastern and Western claim blocks. The Western claim block was prioritized for prospecting as the claims are underlain by lithologies favorable for PGE and base metal mineralization based on previous mapping conducted by the Ontario Geological Survey.

Mobilization to the property on October 20, 2020, with field work commencing on October 21 and completed on November 8. A total of 15 days of field work were completed during the program which included 8 days of prospecting and 7 days of mapping access trails. Field work was not conducted on Oct 24 due to logistics (rented two quads and hired a field assistant) and also for two days, Oct 31 and Nov 1, due to bad weather conditions.

Excessive snow cover and cold temperatures created field conditions that were very difficult for prospecting. Topography was also challenging during the field program as significant topographic relief combined with icy conditions created barriers for prospecting. During periods of inclement weather, the field work was restricted to mapping trails.

Initially, field work was focused on locating access to the four different claim blocks. Trails were located on foot or by using all-terrain vehicles and mapped with GPS for all claim blocks. All weather access trails were located for all four claim blocks.

Prospecting was conducted on the Western claim block over 9 days. The initial prospecting was to locate and trace a lithological contact between a syenodiorite and nordmarkite in the central area of the claim block. This geological setting is significant as it is a similar geological setting to the Geordie Lake Cu-PGE deposit. We had difficulty locating the contact possibly due to the vintage of the most recent government geological map (ca 1960's).

Further work conducted in the central area of the claim block located trace chalcopyrite in a sample of syenite with associated mafic breccia. However, the sample was located 700 m from outside the claim boundary. A successful effort was made to trace the contact onto the property; however, further prospecting was cancelled due to unfavorable field conditions.

An effort was made to prospect a gabbro noted on a government geological map in the northern portion of the Western claim block. The area was inaccessible due to steep topography and icy conditions. A priority should be made to prospect the gabbro next summer.

A total of 22 samples were collected from the Western Claim block. No samples were collected from the Northern, Southern or Eastern Claim blocks. No significant assays were returned from the samples.

Further work is recommended for the property and includes prospecting and sampling.

Introduction

In October and November 2020, an exploration program was initiated by Sienna Resources to prospect for Cu-PGE and also to locate access trails to the various areas of the Marathon North Platinum-Palladium Property.

The primary objective of the current exploration program was to prospect for areas of PGE and base metal mineralization within the four separate claim areas of the property. The secondary objective was to locate access roads and trails to the claims in order to assist with prospecting and future exploration.

Mobilization to the property on October 20, 2020 by Tim Tuba and Dana Campbell, with field work commencing on October 21 and completed on November 8. A total of 15 days of field work were completed during the program which included 8 days of prospecting and 7 days of mapping access trails. Field work was not conducted on Oct 24 due to logistics (rented two quads and hired a field assistant) and also for two days, Oct 31 and Nov 1, due to bad weather conditions.

Location and Access

Thunder Bay South District

Coldwell Complex

Western Claim block

Grain Township (OGF ID – 67135165)

NTS 42D15SE

UTM 534900E 541000N

The Western Claim block is 12 km directly northwest of the town of Marathon, Ontario. See Appendix 1 for location map.

The Western Claim block can be accessed via Marathon by travelling 4 km from Marathon to the Trans-Canada Highway, then west for 17 km along the Trans-Canada Highway to the Mink Creek road. The Mink Creek road is a former logging road and can be accessed using a half ton truck with 4x4; although, the truck can only travel approximately 9 km north on the road. An all-terrain vehicle can access the entire length of the road and is recommended.

Approximately 2 km north on the Mink Creek road, the southern claims are accessible and an additional 13 km to access the northern claims. However, the Mink Creek road does not transect the property and

only comes within 1 to 2 km of the eastern property boundary. There are a few old logging roads that branch off the Mink Creek road and provide more proximal access to the claims.

Additional access is provided on the western side of the property. The access is 6 km further west on the Trans-Canada Highway from the Mink Creek road turnoff. The road is easily accessed using all-terrain vehicles; however, the road was washed out 3 km north from the highway. The washout could possibly be crossed in the spring or summer. The road is nearly 4 km from the west side of the Western Claim block; however, the road comes close (2 km) to the northern portion of the Western Claim block.

Southern Claim block

Pic Township (OGF ID – 67135239)

McCoy Township (OGF ID – 67135137)

NTS 42D16SW and NTS 42D09NW

UTM 543200E 5400800N

The Southern Claim block claims comprise five separate groups of claims. The claims are up to 10 km from the town of Marathon, Ontario; with one claim occurring in the middle of town. See Appendix 1 for location map.

The largest group of claims of the Southern Claim block can be accessed via Marathon by travelling 4 km from Marathon to the Trans-Canada Highway, then west for 12 km along the highway. The highway transects the northern claims of the property. Additional access is provided to the southern portion of this group of claims by an all-terrain vehicle access trail that extends for 2 km from the highway. The trail is located 6 km west of the Marathon-Trans-Canada Highway intersection.

The second largest group of claims of the Southern Claim block can be accessed via the town of Marathon's golf course. Access to the golf course must be granted by the town of Marathon. Various cross-country ski trails north of the golf course also provide additional access.

The third largest group of claims of the Southern Claim block, located near the intersection of the Marathon road and the Trans-Canada Highway are easily accessed as they are transected by these roads. Additional access is found immediately north of the Ontario Hydro substation, 2.5 km north of the town of Marathon.

A single claim is found within the town of Marathon, on which is situated within an area of residential housing and local businesses. No outcrop was observed within the claim.

Another single claim is located 500 meters north of the group of claims located on the town golf course. Access to the claim would be via the golf course and cross-country ski trails.

Eastern Claim block

Pic Township (OGF ID – 67135239)

Cotte Township (OGF ID – 67135180)

NTS 42D16SE and NTS 42D09NE

UTM 556300E 5398500N

The Eastern Claim block is 10 km directly east of Marathon, Ontario. The Eastern Claim block comprise two separate groups of claims within 500 meters of each other. See Appendix 1 for location map.

The larger group of claims on the Eastern Claim block can be accessed via Marathon by travelling 4 km from Marathon to the Trans-Canada Highway, then east for 13 km along the highway. Immediately east of the Black River, a former logging road provides access 2 km north of the highway. However, the logging road ends at the Black River and there is no bridge to cross the river in this area. The claims could be accessed using a boat and travelling 5 km north on the river and traversing to the claims on foot for an additional 1.6 km.

Northern Claim block

No townships associated with the Northern Claim block.

NTS 42D16NW

UTM 544700E 5415400N

The Northern Claim block is 15 km directly north of the town of Marathon, Ontario. See Appendix 1 for location map.

The east side of the Northern Claim block can be accessed via Marathon by travelling 4 km from Marathon to the Trans-Canada Highway, then north, across the highway along a service road for 6 km ending at the Pic River. A boat can then travel north on the river 10 km, then a 700 m traverse to access the claims.

The west side of the Northern Claim block could possibly be accessed via the Mink Creek road. However, we were unable to verify if the Mink Creek road or a branch of the road continues to the claims. If the Mink Creek road does not continue to the claims, a fixed-wing aircraft will provide more than adequate access via the many lakes on the claims.

Mineral Dispositions

The Marathon North Platinum-Palladium property consists of 278 claims within four separate areas, totaling 5,609.12 hectares – see Appendix 1 for claim locations and appendix 2 for table of mineral dispositions. All claims are held by Sienna Resources with no outstanding royalties.

Western Claim block

The Western Claim block is contiguous and comprises 93 claims – see Appendix 1 for claim map and Appendix 2 for claims table.

Southern Claim block

The Southern Claim block comprises five separate blocks of claims for a total of 58 claims – see Appendix 1 for claim map and Appendix 2 for claims table.

Eastern Claim block

The Eastern Claim block comprises two separate blocks of claims for a total of 29 claims – see Appendix 1 for claim map and Appendix 2 for claims table.

Northern Claim block

The Northern Claim block comprises 98 contiguous claims – see Appendix 1 for claim map and Appendix 2 for claims table.

Regional Geology

The property is located within the Proterozoic Coldwell Complex, a tholeiitic-alkaline pluton on the northeastern shore of Lake Superior. The Coldwell Complex is host to numerous Cu-PGE deposits including Generation Mining Ltd.'s Marathon palladium project.

After Brzozowski et al, 2019:

"The Coldwell Complex was emplaced into the Archean Schreiber-Hemlo greenstone belt along the northern edge of the North American Midcontinent rift. Age determinations for various phases of the Coldwell Complex range from 1108 ± 1 Ma (Heaman and Machado, 1992) to 1105.3 ± 0.6 Ma (Good and Dunning, 2018). The Coldwell Complex is the largest alkaline pluton in North America (582 km²) and consists of three intrusive centers (I, II, III) (Currie, 1980; Mitchell and Platt, 1982). Center I is the oldest intrusive phase and consists of syenodiorite, layered ferroaugite-amphibole syenite, syenite, and the Eastern Gabbro Suite, the latter of which includes the gabbroic host pluton for the Marathon Cu-PGE deposit (Walker et al., 1993), as well as numerous other Cu-PGE deposits."

Property Geology

The rocks underlying the claims are primarily syenitic and Proterozoic in age. The syenites are generally massive and medium-grained reddish to pink in colour. The northern portion of the Western Claim block contains gabbro which was mapped by the Ontario Department of Mines in 1961. Minor amounts of mafic volcanic were also observed throughout the claims area.

Rationale and Targets

The property is located within the Proterozoic Coldwell Complex, a tholeiitic-alkaline pluton on the northeastern shore of Lake Superior. The Coldwell Complex is host to numerous Cu-PGE deposits including Generation Mining Ltd.'s Marathon palladium project.

The primary objective of the current exploration program was to prospect for areas of PGE and base metal mineralization within the four separate claim areas of the property. The secondary objective was to locate access roads and trails to the claims in order to assist with prospecting and future exploration.

Prospecting was focused on locating lithologies known for hosting PGE mineralization, especially gabbro. In 1961, gabbro was mapped on the northern claims by the Ontario Department of Mines (Preliminary Geological Map No. P114). According to the Ontario assessment files, no exploration work has been reported in the area of the gabbro.

The Western Block claims area was also selected for prospecting due to its access and proximity to a known PGE base metal deposit, the Geordie Lake deposit (2 km east of the claims). Drennen and Fell (2010) describe the Geordie Lake deposit as a poly-metallic, troctolite/ophitic gabbro with disseminations, blebs and veins of sulphide mineralization. The sulphides are enriched in Cu, Ni, Co, Pd, Pt, Au, Ag, Ti, Te and consist primarily of chalcopyrite with minor bornite, pyrite, millerite, cobaltite, siegentite, sphalerite and galena. The deposit has been mapped over a 1500 m strike and averages approximately 15 m in width. A recent mineral resource conducted in 2019 estimate 17,268,000 tonnes indicated grading 0.56 Pt gpt, 0.04 gpt Pt, 0.35% Cu, 0.05 gpt Au and 2.4 gpt Ag (PdEQ = 1.44 gpt) (Generation Mining press release Dec 2, 2019).

The lack of exploration in the area of the claims was another reason to prospect and sample.

Prospecting and Sampling

The primary objective of the prospecting program was to locate PGE and base metal mineralization on the property. Prospecting was conducted on the Western claim block over 9 days – see prospecting maps in Appendix 3. Areas prospected were selected based on accessibility as poor weather conditions created barriers. Prospecting was conducted by Tim Tuba and Dana Campbell under the supervision of Scott Jobin-Bevans, P.Geol. (Ontario).

The initial prospecting was to locate and trace a lithological contact between a syenodiorite and nordmarkite in the central area of the claim block. This geological setting is significant as it is a similar geological setting to the Geordie Lake Cu-PGE deposit. We had difficulty locating the contact possibly due to the vintage of the most recent government geological map (ca 1960's). Further work is required and should be continued to locate this contact.

Prospecting conducted in the central area of the claim block located trace chalcopyrite in a sample of syenite with associated mafic breccia. However, the sample was located 700 m from outside the claim

boundary. A successful effort was made to trace the contact onto the property; however, further prospecting was cancelled due to unfavorable field conditions.

An east-west trending lithological contact between syenites in the southern portion of the claim block, with mafic breccia was sampled and traced for approximately 200 meters.

An effort was made to prospect a gabbro noted on a government geological map in the northern portion of the Western claim block. The area was inaccessible due to steep topography and icy conditions. A priority should be made to prospect the gabbro next summer.

A total of 22 samples were collected from the Western Claim block. All samples were assayed for Pt, Pd, Au and ICP – see Appendix 4 for certificates of analysis. No significant values were returned from the assays.

Samples 790904 had geochemically anomalous silver (4.4 ppm) and copper (411.7 ppm), this was the sample with the malachite stain. Sample 790905 had geochemically anomalous titanium (1.016%), copper (173.7 ppm), vanadium (375 ppm), this was the sample with the chalcopyrite. Both samples are off of the property (790904 is 700 m east of claim 570249; 790905 is 300 m east of claim 570349).

Sample 790903 and 790801 both have slightly elevated REE's; 790903 has 997 ppm Ce, 553.8 ppm La and 121.9 ppm Y; 790801 has 767 ppm Ce, 398.9 ppm La, 91.6 ppm Th and 145.8 ppm Y.

Both samples are on the property and in different locations (790903 is on claim 570258; 790801 is on claim 570237).

Also of interest is geochemically anomalous Nb (850 ppm) or 0.12% Nb₂O₅. A couple of other samples are also elevated.

The elevated REE's, Y and Nb should not be too surprising as they commonly show up in these alkalic complexes. However, these values should keep the possibility of finding REE mineralization a real possibility. Recommend for future exploration to include ICP analysis along with the Pt, Pd, Au assays.

Daily Sampling Log

Eight days were spent prospecting and sampling the Western Block claims – see prospecting maps, Appendix 3.

October 23, 2020

Prospecting was focused at the end of a foot trail off of the Mink Creek road. The area prospected is in the northeast corner of claim 570237 – see prospecting location map for location.

October 27, 2020

The eastern mid portion of claim 570237 was prospected, including the western mid portion of claim 570235 – see prospecting location map for location.

November 2, 2020

Two separate areas were prospected: 1) The northwest and southeast areas of claim 570269 – see prospecting location map for location; 2) The southeastern corner of claim 470235 and the eastern half of claim 570250 – see prospecting location map for location.

November 3, 2020

Two separate areas were prospected: 1) Most of the southern portion of claim 570235 – see prospecting location map for location; 2) The southeastern corner of claim 570258 and the northeastern corner of claim 570257 – see prospecting location map for location.

November 4, 2020

Two separate areas were prospected: 1) The area prospected includes the southwestern corner of claim 570235, southeastern corner of claim 570237, northeastern corner of claim 570243 and the northwestern corner of claim 570250 – see prospecting location map for location; 2) The southeastern portion of claim 570249 and the northeastern portion of claim 570242.

November 6, 2020

Prospecting was concentrated between the trail and the east side of the creek on claims 570237 (southeast corner of claim), 570243 (east side of claim) and 570250 (west edge of claim) – see prospecting location map for location.

November 7, 2020

Two separate areas were prospected: 1) The southern portion of claim 570249 and the northern portion of claim 570242; 2) The northeastern corner of claim 570240 – see prospecting location map for location.

November 8, 2020

The central portion of claim 570240 – see prospecting location map for location.

Sample Descriptions

Sample Locations are listed in the following table (see Appendix 5 for sample location maps):

Sample Number	Easting*	Northing*	Date	Area
790801	535243	5405144	October 23, 2020	Western Claim block
790802	535244	5405145	October 23, 2020	Western Claim block
790803	535235	5405126	October 27, 2020	Western Claim block
790804	535239	5405138	October 27, 2020	Western Claim block
790805	535241	5405141	October 27, 2020	Western Claim block
790806	535249	5405139	October 27, 2020	Western Claim block
790807	535325	5405048	October 27, 2020	Western Claim block

Sample Number	Easting*	Northing*	Date	Area
790808	535272	5404999	October 27, 2020	Western Claim block
790809	535494	5404956	November 3, 2020	Western Claim block
790810	535513	5404923	November 3, 2020	Western Claim block
790811	535462	5404926	November 4, 2020	Western Claim block
790812	535470	5404931	November 4, 2020	Western Claim block
790813	535480	5404932	November 4, 2020	Western Claim block
790901	536107	5410129	November 2, 2020	Western Claim block
790902	535806	5410365	November 2, 2020	Western Claim block
790903	535628	5410444	November 3, 2020	Western Claim block
790904	535980	5409481	November 4, 2020	Western Claim block
790905	535643	5409527	November 4, 2020	Western Claim block
790905A	535643	5409527	November 4, 2020	Western Claim block
790906	535280	5409517	November 4, 2020	Western Claim block
790907	535194	5409533	November 7, 2020	Western Claim block

*UTM NAD83 Zone 16

Sample descriptions are listed below with corresponding photos of samples in Appendix 6 and certificates of analysis in Appendix 4.

790801 – Syenite - Light grey to pale orange, fine grained, homogenous, 10-15% black, subhedral, 0.5 mm diameter pyroxene crystals, trace green, anhedral, less than 0.5 mm diameter, strongly oxidized, Fe-Olivine (fayalite?), 85-90%, pale pink-orange, subhedral, 1.0 mm diameter, K-feldspar crystals. Possible very fine grained, trace pyrrhotite observed.

790802 - Syenite - Light grey to pale orange, fine grained, homogenous, 10-15% black, subhedral, 1.0 mm diameter pyroxene crystals, trace green, anhedral, less than 0.5 mm diameter, strongly oxidized, Fe-Olivine (fayalite?), 85-90%, pale pink-orange, subhedral, 1.0 mm diameter, K-feldspar crystals. No sulphides observed.

790803 - Syenite - Light grey to pale orange, coarse grained, homogenous, 5-10% black, subhedral, 3.0 mm diameter pyroxene crystals, 90-95%, pale pink-orange, subhedral, 3.0 to 10.0 mm diameter, K-feldspar crystals. No sulphides observed.

790804 – Very fine grained Syenite? - Light grey, very fine grained, homogenous, 15 to 20% black, subhedral, sub-mm diameter pyroxene crystals, 80-85%, pale grey to pale pink, anhedral, sub-mm diameter quartzofeldspathic crystals. Trace sulphides (pyrite?) observed.

790805 – Contact between medium grained Syenite and Very fine grained Syenite? – Syenite is light grey to pale orange, coarse grained, homogenous, 5-10% black, subhedral, 3.0 mm diameter pyroxene crystals, 90-95%, pale pink-orange, subhedral, 3.0 to 10.0 mm diameter, K-feldspar crystals. No sulphides observed. Very fine grained Syenite? is light grey, fine grained, homogenous, 15 to 20% black, subhedral, sub-mm diameter pyroxene crystals, 80-85%, pale grey to pale pink, anhedral, sub-mm diameter quartzofeldspathic crystals.

790806 – Mafic Volcanic xenolith – Mafic volcanic is medium to dark grey, very fine grained, homogenous, 15-20% black, sub-mm diameter, mafic crystals (pyroxene?), 80-85%, light to dark grey, sub-mm diameter quartzofeldspathic crystals. No sulphides observed.

790807 - Mafic Volcanic xenolith – Mafic volcanic is medium to dark grey with pinkish orange tinge²¹⁷, very fine grained, homogenous, 15-20% black, sub-mm diameter, mafic crystals (pyroxene?), 80-85%, light to dark grey, sub-mm diameter quartzofeldspathic crystals. No sulphides observed.

790808 - Mafic Volcanic xenolith – Mafic volcanic is medium to dark grey with pinkish orange tinge, very fine grained, homogenous, 15-20% black, sub-mm diameter, mafic crystals (pyroxene?), 80-85%, light to dark grey, sub-mm diameter quartzofeldspathic crystals. No sulphides observed.

790809 – Syenite – Medium rusty brown, fine to medium grained, homogenous, 10-15% black, subhedral, 0.5 mm diameter pyroxene crystals; 1 to 3% green, anhedral, less than 0.5 mm diameter, strongly oxidized, Fe-Olivine (fayalite?), 85-90%, pale pink-orange, subhedral, 1.0 mm diameter, K-feldspar crystals. Mineral identification difficult due to strong oxidation.

790810 - Syenite – Medium rusty brown, fine to medium grained, homogenous, 10-15% black, subhedral, 0.5 mm diameter pyroxene crystals; 1 to 3% green, anhedral, less than 0.5 mm diameter, strongly oxidized, Fe-Olivine (fayalite?), 85-90%, pale pink-orange, subhedral, 1.0 mm diameter, K-feldspar crystals. Mineral identification difficult due to strong oxidation.

790811 - Contact between very fine grained Syenite and (790804 rock type) – Syenite is light grey to pale orange, coarse grained, homogenous, 5-10% black, subhedral, sub-mm diameter pyroxene crystals, 90-95%, pale pink-orange, subhedral, sub-mm diameter, K-feldspar crystals. No sulphides observed. (790804 rock type) is light grey, fine grained, homogenous, 15 to 20% black, subhedral, sub-mm diameter pyroxene crystals, 80-85%, pale grey to pale pink, anhedral, sub-mm diameter quartzofeldspathic crystals, trace pale pink, anhedral, sub-mm diameter garnet crystals.

790812 – Mafic rock – Medium to dark grey, very fine grained, homogenous, 25-30% black, subhedral, sub-mm diameter pyroxene crystals; 70 to 75% light grey, sub-mm diameter quartzofeldspathic crystals (difficult to differentiate between quartz and feldspars). No visible sulphides.

790813 – Porphyritic Syenodiorite – Light to medium grey, matrix is very fine grained; matrix comprises 80% of unit and comprises 10-15% black, subhedral, 0.5 mm diameter pyroxene crystals with 85 to 90% comprising light grey, very fine grained, quartzofeldspathic crystals ; 20%, pale pink-orange, subhedral to euhedral, 1 to 3 mm diameter, plagioclase crystals rimmed by K-feldspar crystals, preferential alignment of crystals not observed.

790901 – Syenite- K-feldspar rich fine to med grain equigranular rock taken from the southeastern quadrant of claim 570269

790902 – Syenite - K-feldspar rich fine to med grain equigranular rock higher mafic contents than previous sample. Taken from the northwestern quadrant of claim 570269

790903 – Syenite - higher mafic content than previously observed and coarser grained (med to coarse grain). Outside of sampled rock was oxidized to rust. Taken from the southeastern quadrant of claim 570258.

790904 - Contact between mafic and felsic rocks - mafic aphanitic rock contains disseminated sulfides and malachite stain. Felsic rock contains bright orange mineral grains and quartz, feldspars, and some mafics. Taken south of claim 570269, not within a sienna claim.

790905 - Syenite Breccia - oxidized surface around mafic xenoliths, speck of chalcopyrite observed. Mafic xenoliths are very fine grained. Taken south of claim 570257, not within a Sienna claim block.

790905A – Syenite – pale pink to light grey, fine grained, K-feldspar dominant with minor pyroxene

790906 - Syenite Breccia – fine to medium grained rock with very fine grained mafic clasts. Taken from claim 570249.

790907 – Syenite Breccia – felsic breccia clast within syenitic-granitic matrix; clast is biotite-rich (approximately 15%), medium grained with k-spar veining.

Expenses

Field Supplies		\$555.28
Equipment Rental	Quads and trailer	\$4,884.96
Assay and Geochem costs	22 samples	\$1,131.90
Food		\$798.50
Accommodations		\$4,243.19
Travel		\$2,577.84
Prospecting and Report Writing	Tim Tuba	\$30,750.00
	Dana Campbell	\$15,300.00
	Scott Jobin-Bevans	\$1,687.50
	Field Assistant – Drake Darling	\$2,000.00
	Field Assistant – Kendra Lemieux	\$1,800.00
Total Expenditures		\$65,729.17

See appendix 7 for invoices.

Conclusions and Recommendations

Although no significant assay values were obtained from this short prospecting and sampling program, only a very small area was prospected on only one of four claim groups. To fully evaluate the property, additional exploration is required.

Excessive snow cover and cold temperatures created field conditions that were very difficult for prospecting and sampling. Topography was also challenging during the field program as significant topographic relief combined with icy conditions created barriers for prospecting. During periods of

inclement weather, the field work was restricted to mapping trails. Due to the limited prospecting on the property, further work is strongly recommended for the property and includes the following:

Prospecting was conducted on the Western claim block to locate and trace a lithological contact between a syenodiorite and nordmarkite in the central area of the claim block. This geological setting is significant as it is a similar geological setting to the Geordie Lake Cu-PGE deposit. We had difficulty locating the contact possibly due to the vintage of the most recent government geological map (ca 1960's). Further work is recommended to outline the contact.

Prospecting in the central area of the claim block located trace chalcopyrite in a sample of syenite with associated mafic breccia. However, the sample was located 700 m from outside the claim boundary. A successful effort was made to trace the contact onto the property; however, further prospecting was cancelled due to unfavorable field conditions. Further work should be continued next spring or summer when field conditions are better.

An effort was made to prospect a gabbro noted on a government geological map in the northern portion of the Western claim block. The area was inaccessible due to steep topography and icy conditions. A priority should be made to prospect the gabbro next summer. Further work should be continued next spring or summer when field conditions are better.

Prospecting and sampling is required to be conducted on the Northern, Eastern and Southern claim groups next spring or summer in order to fully evaluate the property.

Scott Jobin-Bevans, Geologist, P. Geo.

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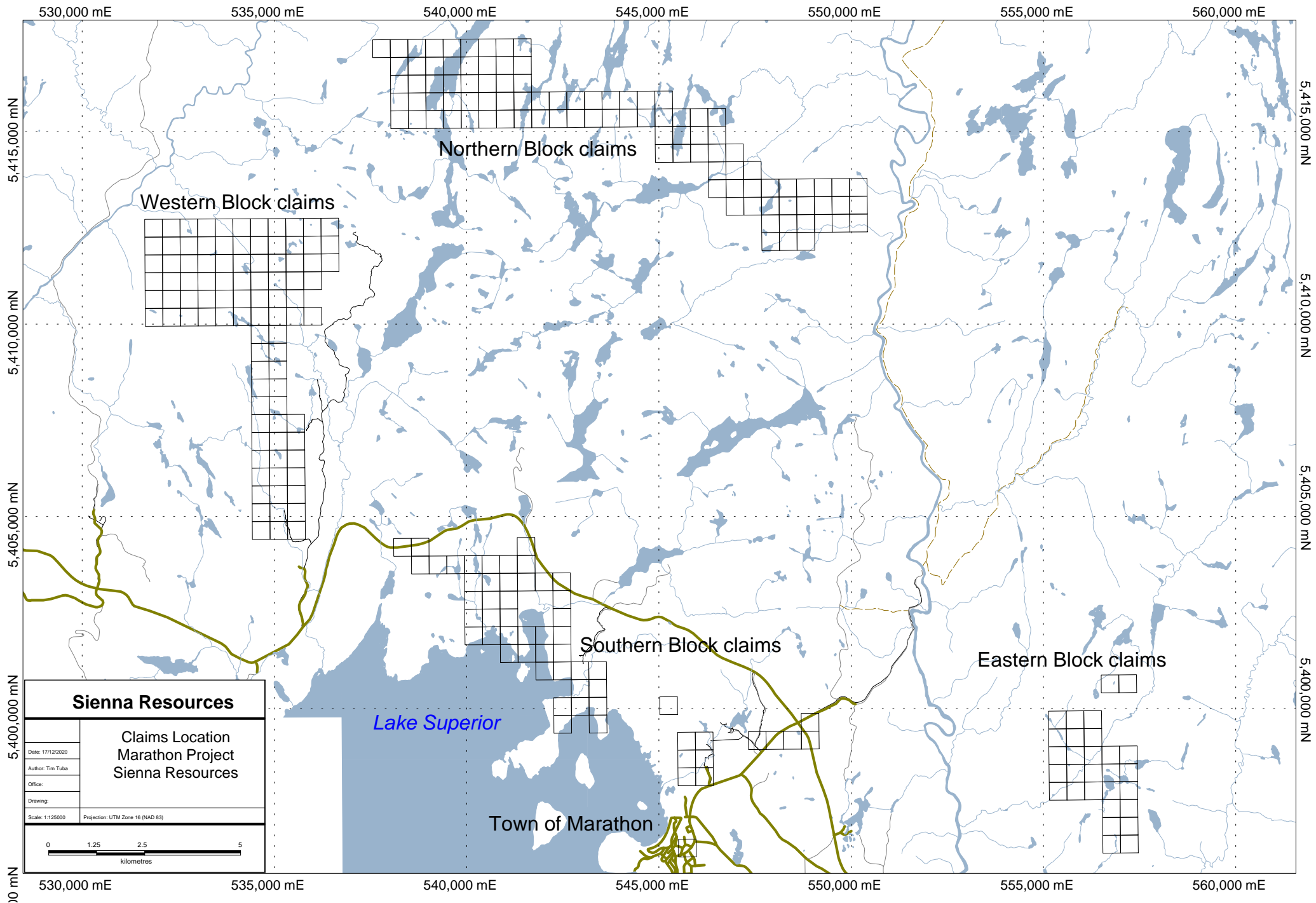
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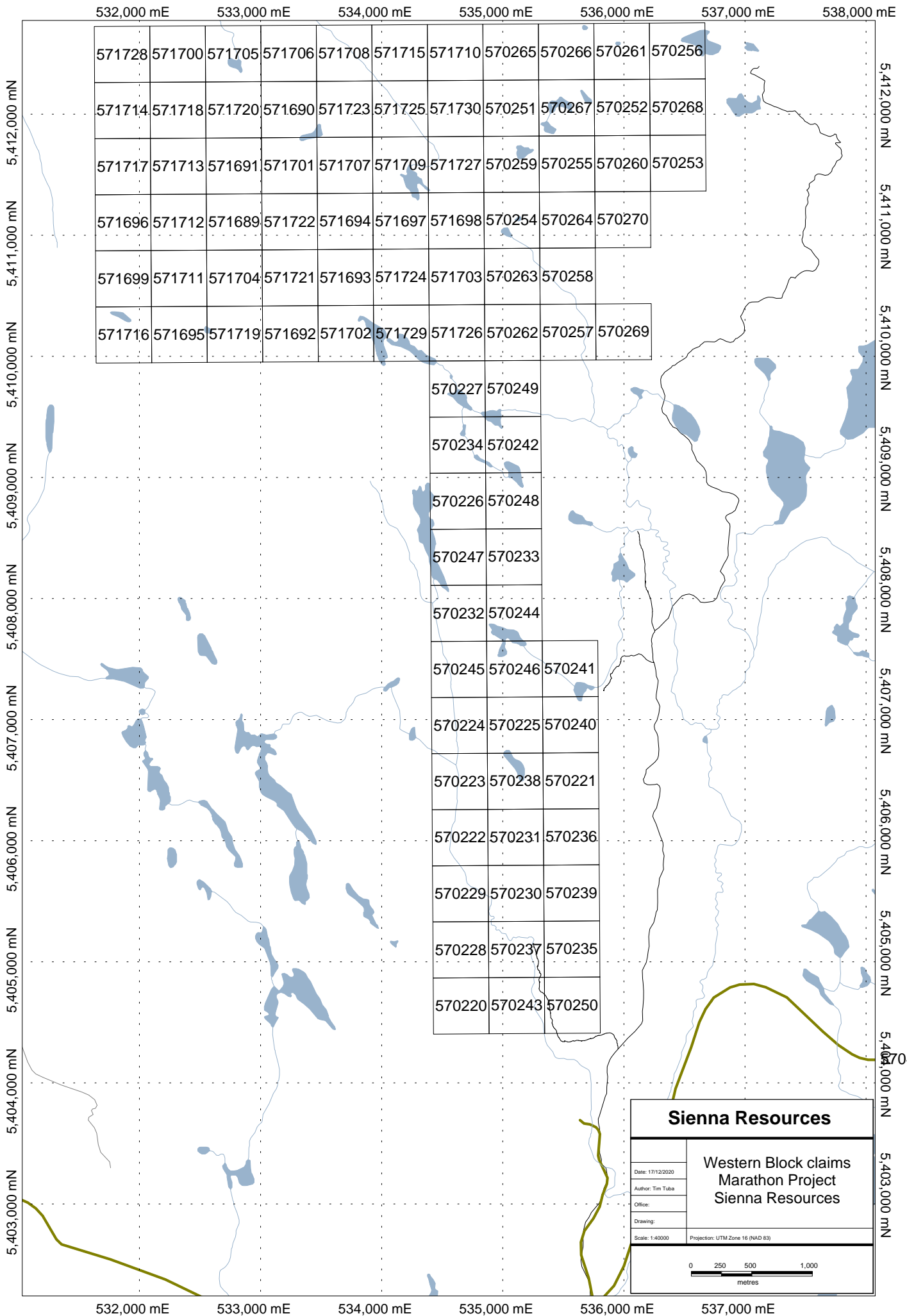
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Appendices

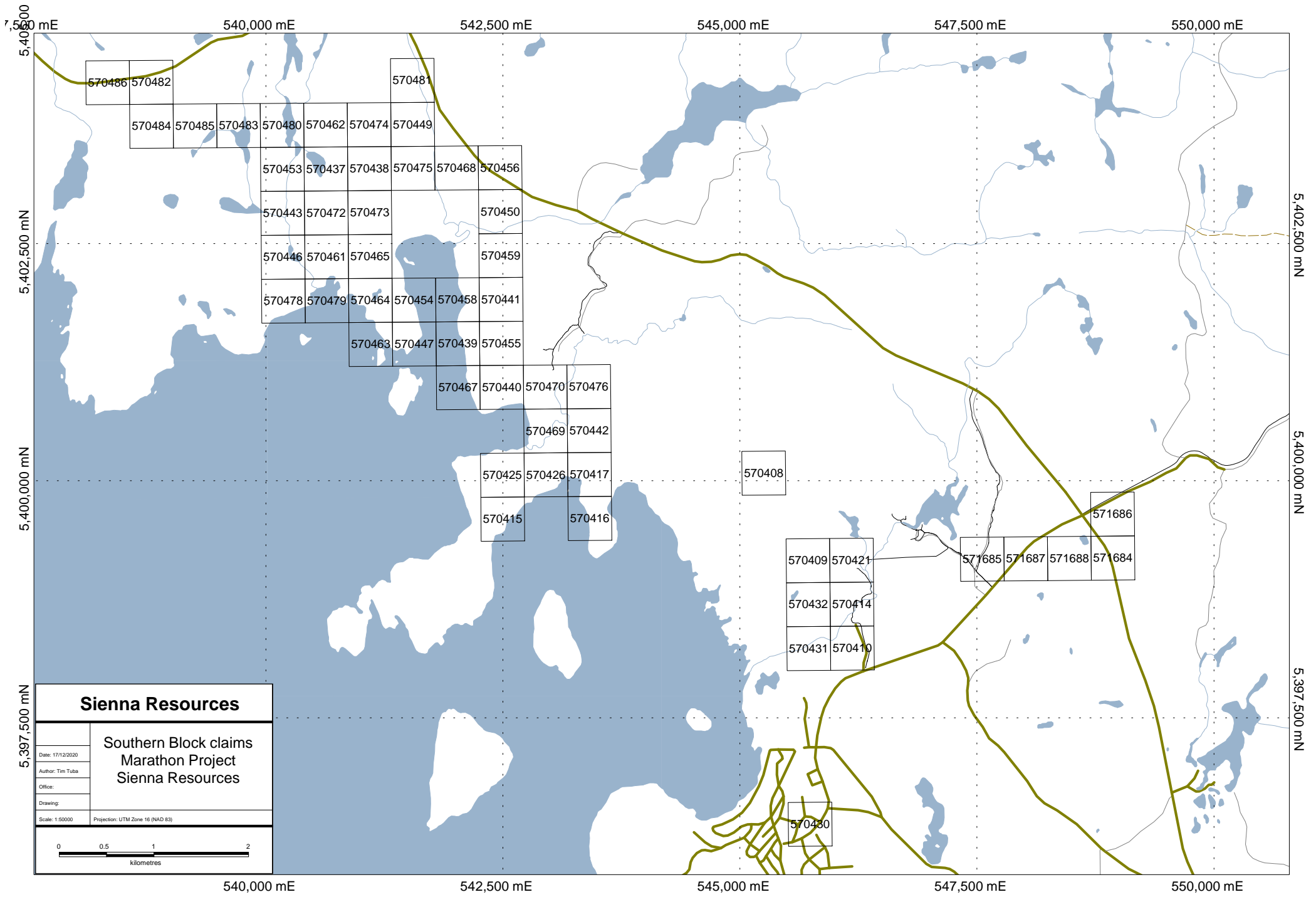
Appendix 1 – Claim maps



Sienna Resources	
Claims Location Marathon Project Sienna Resources	
Date: 17/12/2020	
Author: Tim Tuba	
Office:	
Drawing:	
Scale: 1:125000	Projection: UTM Zone 16 (NAD 83)



Sienna Resources	
Western Block claims Marathon Project Sienna Resources	
Date: 17/12/2020	
Author: Tim Tuba	
Office:	
Drawing:	
Scale: 1:40000	Projection: UTM Zone 16 (NAD 83)

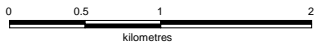


Sienna Resources

Southern Block claims
Marathon Project
Sienna Resources

Date: 17/12/2020
Author: Tim Tuba
Office:
Drawing:

Scale: 1:50000 Projection: UTM Zone 16 (NAD 83)



540,000 mE

542,500 mE

545,000 mE

547,500 mE

550,000 mE

5,405,000 mN

5,402,500 mN

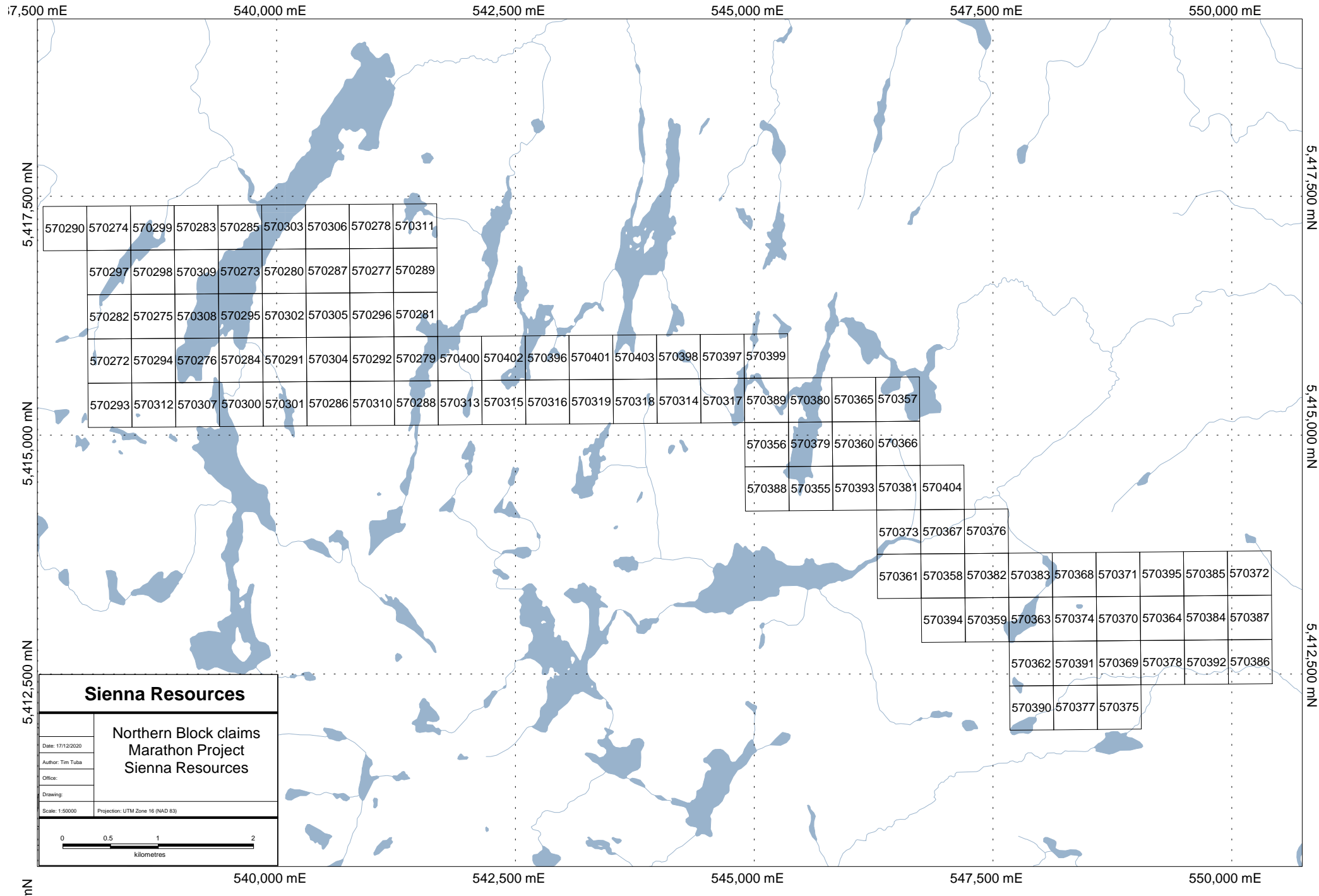
5,400,000 mN

5,397,500 mN

5,402,500 mN

5,400,000 mN

5,397,500 mN



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570297	570298	570309	570273	570280	570287	570277	570289	
570282	570275	570308	570295	570302	570305	570296	570281	
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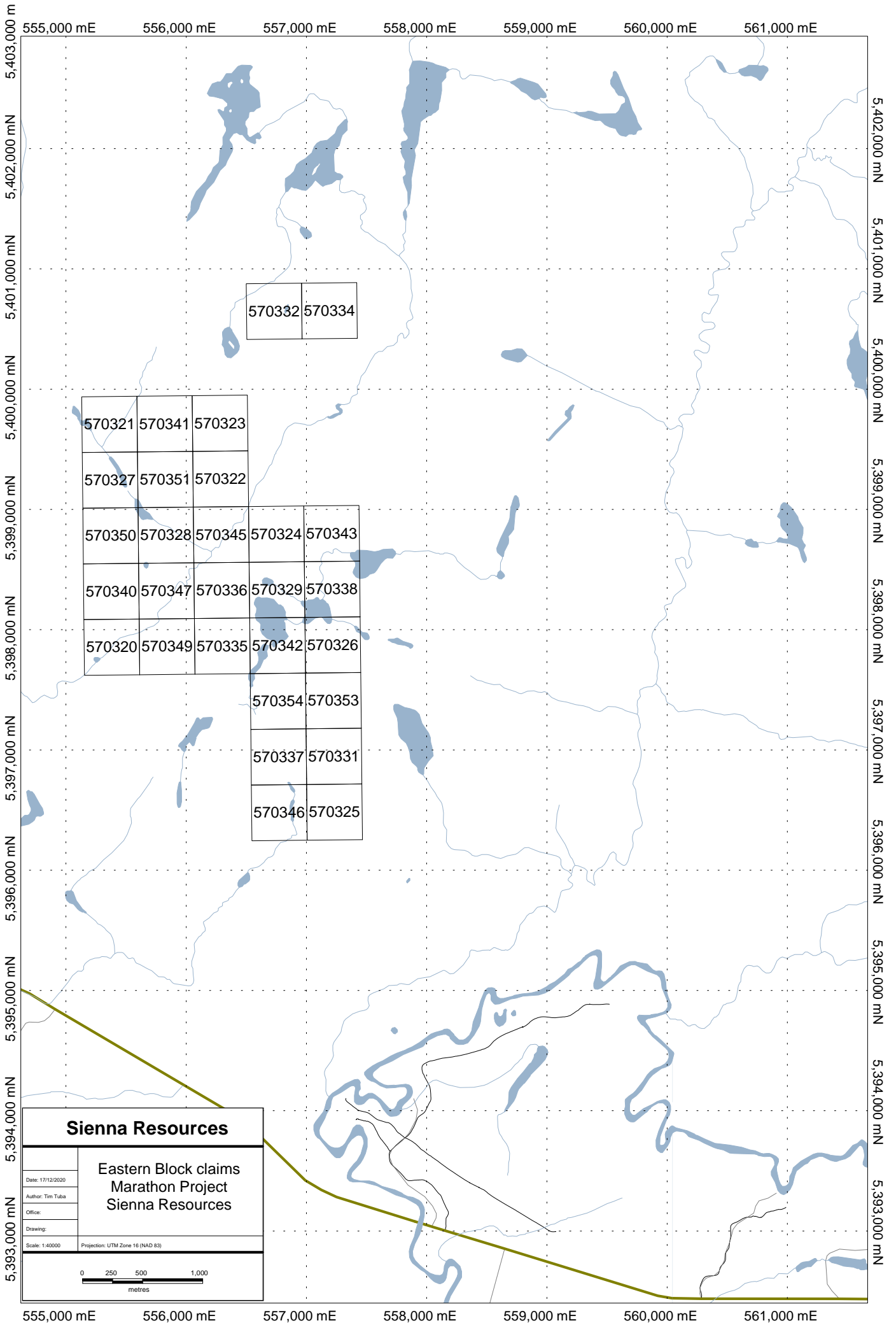
570402	570396	570401	570403	570398	570397	570399
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570388	570355	570393	570381
			570404

570373	570367	570376
570361	570358	570382
570394	570359	570363

570383	570368	570371	570395	570385	570372
570394	570359	570363	570374	570370	570364
570362	570391	570369	570378	570392	570386
570390	570377	570375			

Sienna Resources	
Northern Block claims Marathon Project Sienna Resources	
Date: 17/12/2020	
Author: Tim Tuba	
Office:	
Drawing:	
Scale: 1:50000	Projection: UTM Zone 16 (NAD 83)



Sienna Resources

Eastern Block claims
Marathon Project
Sienna Resources

Date: 17/12/2020

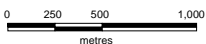
Author: Tim Tuba

Office:

Drawing:

Scale: 1:40000

Projection: UTM Zone 18 (NAD 83)



Appendix 2 – Mineral dispositions table

Claim Number	Registration Date	Anniversary Date	Tenure Status	Mining Claim Type	Holder
Western Block claims					
570220	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570221	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570222	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570223	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570224	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570225	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570226	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570227	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570228	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570229	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570230	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570231	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570232	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570233	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570234	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570235	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570236	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570237	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570238	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570239	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570240	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570241	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc

Claim Number	Registration Date	Anniversary Date	Tenure Status	Mining Claim Type	Holder
570242	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570243	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570244	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570245	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570246	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570247	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570248	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570249	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570250	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570251	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570252	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570253	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570254	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570255	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570256	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570257	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570258	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570259	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570260	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570261	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570262	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570263	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc

Claim Number	Registration Date	Anniversary Date	Tenure Status	Mining Claim Type	Holder
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570265	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570266	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570267	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570268	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570269	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570270	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571689	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571690	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571691	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571692	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571693	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571694	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571695	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571696	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571697	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571698	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571699	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571700	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571701	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571702	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571703	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc

Claim Number	Registration Date	Anniversary Date	Tenure Status	Mining Claim Type	Holder
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571705	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571706	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571707	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571708	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571709	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571710	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571711	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571712	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571713	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571714	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571715	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571716	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571717	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571718	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571719	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571720	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571721	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571722	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571723	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571724	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571725	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc

Claim Number	Registration Date	Anniversary Date	Tenure Status	Mining Claim Type	Holder
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571727	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571728	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571729	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571730	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
Southern Block claims					
570408	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570409	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570410	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570414	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570415	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570416	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570417	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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570425	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570426	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570430	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570431	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570432	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570437	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570438	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570439	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570440	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc

Claim Number	Registration Date	Anniversary Date	Tenure Status	Mining Claim Type	Holder
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570442	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570443	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570446	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570447	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570449	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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570458	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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570462	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570463	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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570465	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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570468	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570469	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570470	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc

Claim Number	Registration Date	Anniversary Date	Tenure Status	Mining Claim Type	Holder
570472	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570473	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570474	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570475	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570476	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570478	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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570481	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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570485	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570486	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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571685	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571686	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571687	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
571688	1/27/20	1/27/22	Active	Single Cell Mining Claim	Sienna Resources Inc
Eastern Block claims					
570320	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570321	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570322	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc

Claim Number	Registration Date	Anniversary Date	Tenure Status	Mining Claim Type	Holder
570323	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570324	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570325	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570326	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570327	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570328	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570329	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570331	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570332	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570334	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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570336	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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570340	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570341	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570342	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570343	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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570346	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570347	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570349	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc

Claim Number	Registration Date	Anniversary Date	Tenure Status	Mining Claim Type	Holder
570350	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570351	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570353	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570354	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
Northern Block claims					
570272	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570273	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570274	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570275	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570276	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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570278	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570279	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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570285	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570286	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570287	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570288	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc

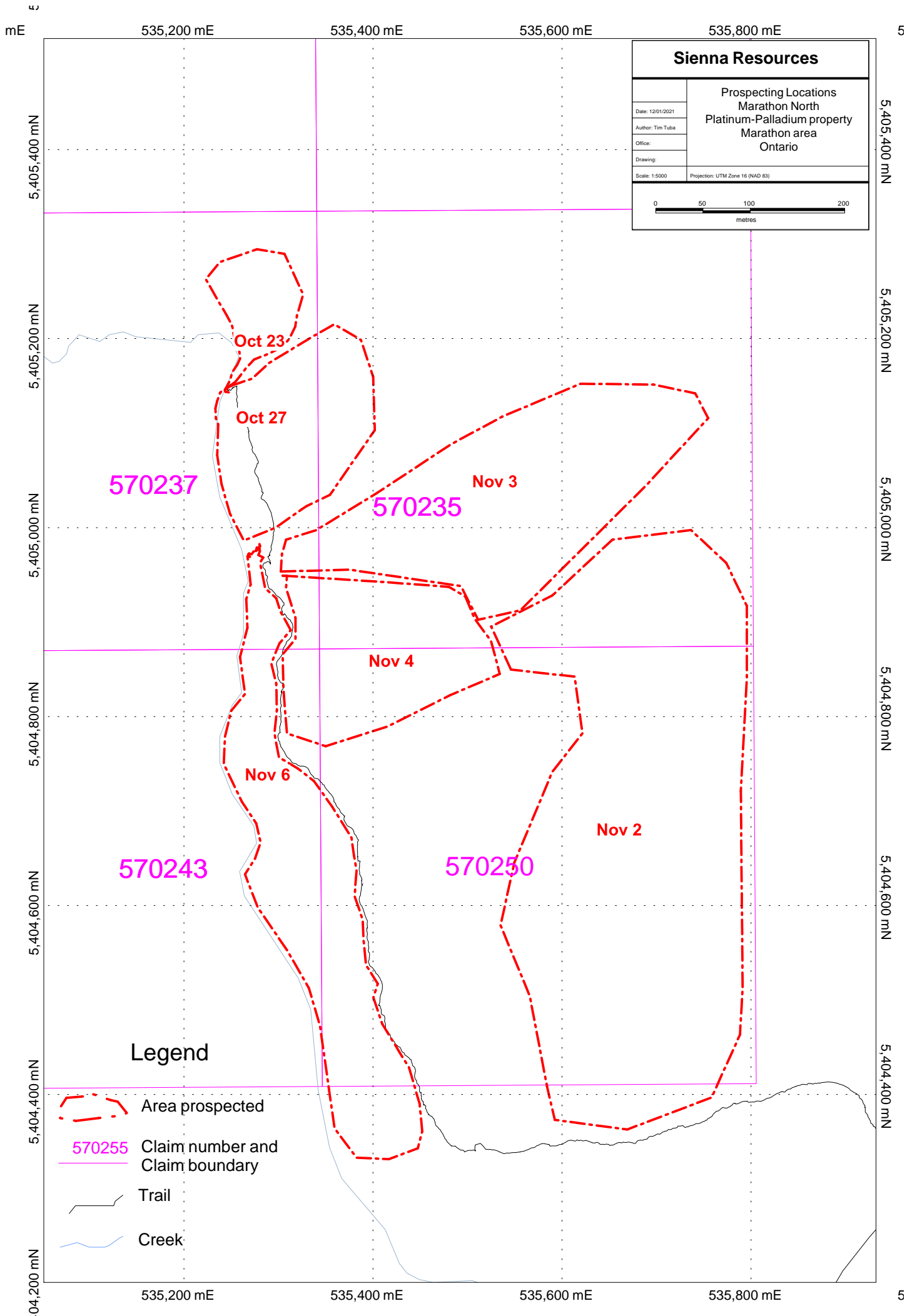
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570290	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570291	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570292	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570293	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570294	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570295	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570296	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570297	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570298	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570299	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570300	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570301	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570302	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570303	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570304	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570305	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570306	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570307	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570308	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570309	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
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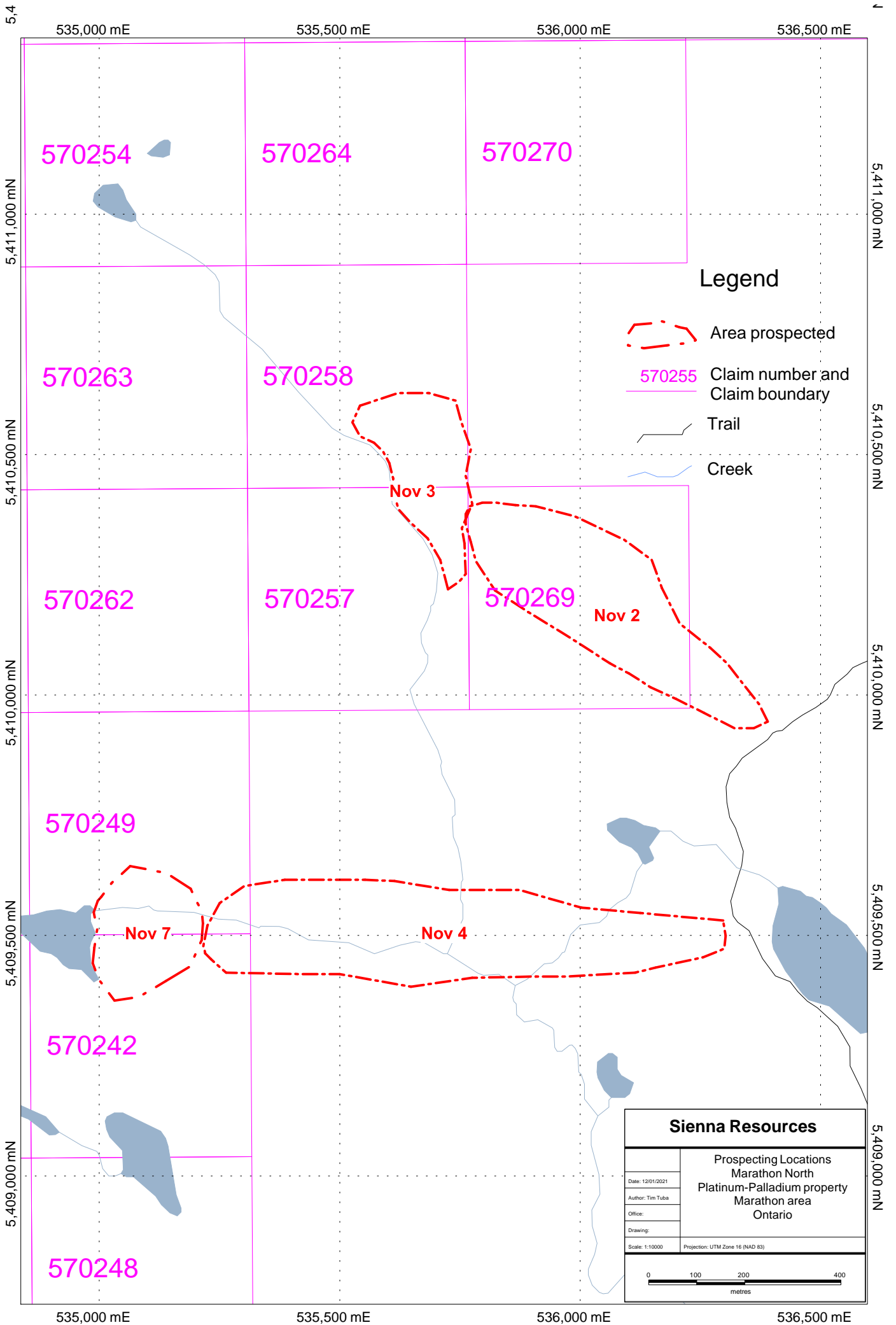
Claim Number	Registration Date	Anniversary Date	Tenure Status	Mining Claim Type	Holder
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570312	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570313	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570314	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570315	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570316	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570317	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570318	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570319	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570355	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570356	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570357	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570358	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570359	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570360	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570361	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570362	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570363	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570364	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570365	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570366	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570367	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc

Claim Number	Registration Date	Anniversary Date	Tenure Status	Mining Claim Type	Holder
570368	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570369	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570370	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570371	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570372	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570373	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570374	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570375	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570376	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570377	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570378	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570379	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570380	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570381	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570382	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570383	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570384	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570385	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570386	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570387	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570388	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570389	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc

Claim Number	Registration Date	Anniversary Date	Tenure Status	Mining Claim Type	Holder
570390	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570391	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570392	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570393	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570394	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570395	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570396	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570397	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570398	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570399	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570400	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570401	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570402	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570403	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc
570404	1/22/20	1/22/22	Active	Single Cell Mining Claim	Sienna Resources Inc

Appendix 3 – Prospecting Location Maps





570254

570264

570270

570263

570258

Nov 3

570262

570257

570269

Nov 2

570249

Nov 7

Nov 4

570242

570248

535,000 mE 535,500 mE 536,000 mE 536,500 mE

5,4

5,411,000 mN

5,410,500 mN

5,410,000 mN

5,409,500 mN

5,409,000 mN

5,411,000 mN

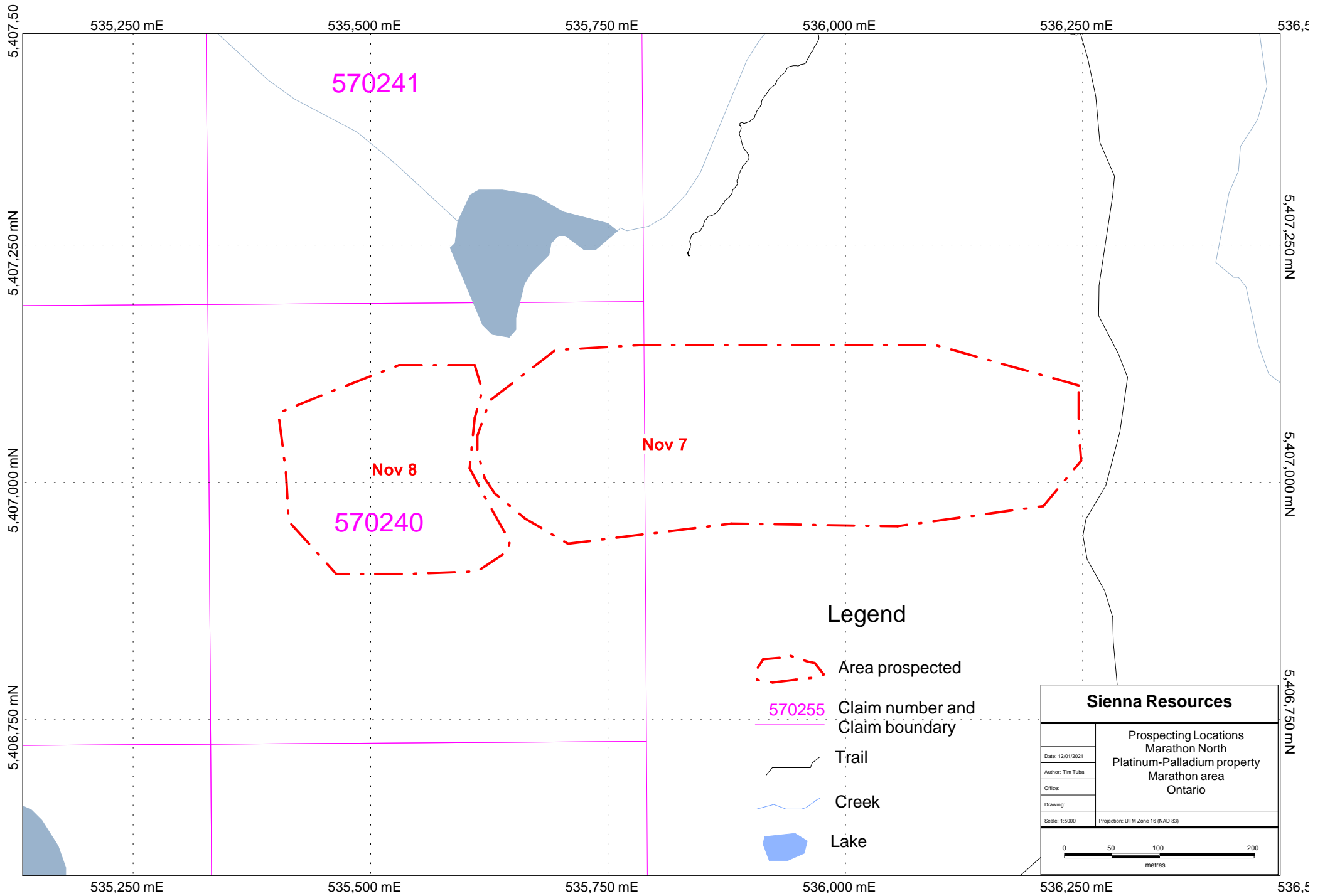
5,410,500 mN

5,410,000 mN






5,409,500 mN

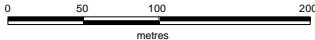
5,409,000 mN

535,000 mE 535,500 mE 536,000 mE 536,500 mE



Legend

-  Area prospected
-  Claim number and Claim boundary
-  Trail
-  Creek
-  Lake

Sienna Resources	
Prospecting Locations Marathon North Platinum-Palladium property Marathon area Ontario	
Date: 12/01/2021	
Author: Tim Tuba	
Office:	
Drawing:	
Scale: 1:5000	Projection: UTM Zone 16 (NAD 83)
	

Appendix 4 - Certificates of Analysis



2 - 302 48th Street • Saskatoon, SK • S7K 6A4
P (306) 931-1033 F (306) 242-4717 E info@tsllabs.com

Company: Mr. Tim Tuba
Geologist: T. Tuba
Project: Marathon
Purchase Order:

TSL Report: S58786
Date Received: Dec 11, 2020
Date Reported: Dec 21, 2020
Invoice: 78926

Remarks:

Sample Type:	Number	Size Fraction	Sample Preparation
Rock	22	Reject ~ 95% at -10 mesh (1.70 mm) Pulp ~ 95% at -150 mesh (106 µm)	Crush, Riffle Split, Pulverize
Pulp	0		None

Pulp Size requested ~ 250 g

Standard Procedure:

Samples for Au, Pt, Pd Fire Assay/ICP (ppb) are weighed at 30 grams.

Element Name	Unit	Extraction Technique	Lower Detection Limit	Upper Detection Limit
Au	ppb	Fire Assay/ICP	5	3000
Pt	ppb	Fire Assay/ICP	10	3000
Pd	ppb	Fire Assay/ICP	5	3000

*Results are representative of samples submitted for testing.
Test reports may be reproduced, in their entirety, without our consent.
Liability is limited to the analytical cost for analyses.*



#2 - 302 48th Street • Saskatoon, SK • S7K 6A4
P (306) 931-1033 F (306) 242-4717 E info@tsllabs.com

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Mr. Tim Tuba
11 Iroquois Bay
Winnipeg, MB R2J 2E1

REPORT No. S58786

SAMPLE(S) OF 22 Rock/0 Pulp

INVOICE #:78926
P.O.:

T. Tuba
Marathon

	Au ppb	Pt ppb	Pd ppb	File Name
790801	<5	<10	<5	S58786
790802	<5	<10	<5	S58786
790803	<5	<10	<5	S58786
790804	<5	<10	<5	S58786
790805	<5	<10	<5	S58786
790806	<5	<10	<5	S58786
790807	<5	<10	<5	S58786
790808	<5	<10	<5	S58786
790809	<5	<10	<5	S58786
790810	<5	<10	<5	S58786
790811	<5	<10	<5	S58786
790812	<5	<10	<5	S58786
790813	<5	<10	<5	S58786
790901	<5	<10	<5	S58786
790902	<5	<10	<5	S58786
790903	<5	<10	<5	S58786
790904	10	<10	<5	S58786
790905	5	<10	20	S58786
790905A	<5	<10	<5	S58786
790906	<5	<10	<5	S58786

COPIES TO: T. Tuba, etc.
INVOICE TO: T.Tuba - Winnipeg

Dec 21/20

SIGNED 

Mark Acres - Quality Assurance



#2 - 302 48th Street · Saskatoon, SK · S7K 6A4
P (306) 931-1033 F (306) 242-4717 E info@tsllabs.com

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Mr. Tim Tuba
11 Iroquois Bay
Winnipeg, MB R2J 2E1

REPORT No. S58786

SAMPLE(S) OF 22 Rock/0 Pulp

INVOICE #:78926
P.O.:

T. Tuba
Marathon

	Au ppb	Pt ppb	Pd ppb	File Name
790907	<5	10	5	S58786
790908	<5	<10	<5	S58786

COPIES TO: T. Tuba, etc.
INVOICE TO: T.Tuba - Winnipeg

Dec 21/20

SIGNED 

Mark Acres - Quality Assurance



2 - 302 48th Street • Saskatoon, SK • S7K 6A4
 P (306) 931-1033 F (306) 242-4717 E info@tsllabs.com

Company:	Mr. Tim Tuba	TSL Report:	S58786
Geologist:	T. Tuba	Date Received:	Dec 11, 2020
Project:	Marathon	Date Reported:	Jan 11, 2021
Purchase Order:		Invoice:	78926

Sample Type:	Number	Size Fraction	Sample Preparation
Rock	22	Reject ~ 70% -10 mesh (1.70 mm) Pulp ~ 95% -150 mesh (106 µm)	Crush, Riffle Split, Pulverize
Pulp	0		None

ICP-MS Multiacid Digestion HNO₃-HClO₄-HF-HCl

The Multiacid digestion liberates most metals that are not completely dissolved with Aqua Regia. Dissolution may not be complete for Cr and Ba minerals(). Some loss of Au, As and Sb may occur.(□)*

Element Name	Lower Detection Limit	Upper Detection Limit	Element Name	Lower Detection Limit	Upper Detection Limit
Ag	0.1 ppm	200 ppm	Na	0.001 %	10 %
Al *	0.01%	20 %	Nb	0.1 ppm	2000 ppm
As □	1 ppm	10000 ppm	Ni	0.1 ppm	10000 ppm
Au □	0.1 ppm	200 ppm	P	0.001 %	5 %
Ba *	1 ppm	10000 ppm	Pb	0.1 ppm	10000 ppm
Be *	1 ppm	1000 ppm	Rb	0.1 ppm	2000 ppm
Bi	0.1 ppm	4000 ppm	S	0.1 %	10 %
Ca	0.01%	40 %	Sb □	0.1 ppm	4000 ppm
Ce	1 ppm	2000 ppm	Sc	1 ppm	200 ppm
Cd	0.1 ppm	4000 ppm	Sn *	0.1 ppm	2000 ppm
Co	1 ppm	4000 ppm	Sr	1 ppm	10000 ppm
Cr *	0.1 ppm	10000 ppm	Ta *	0.1 ppm	2000 ppm
Cu	0.1 ppm	10000 ppm	Th	0.1 ppm	4000 ppm
Fe *	0.01%	60 %	Ti	0.001 %	10 %
Hf *	0.1 ppm	1000 ppm	U	0.1 ppm	4000 ppm
K	0.01%	10 %	V	1 ppm	10000 ppm
La	0.1 ppm	10000 ppm	W *	0.1 ppm	200 ppm
Li	0.1 ppm	2000 ppm	Y	0.1 ppm	2000 ppm
Mg *	0.01 %	30 %	Zn	1 ppm	10000 ppm
Mn *	1 ppm	50000 ppm	Zr *	0.1 ppm	2000 ppm
Mo	0.1 ppm	4000 ppm			

*Results are representative of samples submitted for testing.
 Test reports may be reproduced, in their entirety, without our consent.
 Liability is limited to the analytical cost for analyses.*

TSL LABORATORIES INC.

2 - 302 48th Street East, Saskatoon, Saskatchewan, S7K 6A4

Tel: (306) 931-1033 Fax: (306) 242-4717

Report No: S58786

Date: January 11, 2021

Mr Tim Tuba

Attention: T. Tuba

Project: Marathon

Sample: 22 Rock

MULTIELEMENT ICP-MS ANALYSIS

Multiacid Digestion

Element Sample	Ag ppm	Al %	As ppm	Au ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
790801	<0.1	5.71	6	<0.1	40	17	0.1	0.62	0.4	767	0.4	108	9.2	5.43	30.8	0.16	3.68	398.9	91.3	0.03	1211	3.5	3.675
790802	<0.1	5.77	7	<0.1	28	17	0.1	0.35	0.5	407	0.5	122	8.9	5.74	27.2	0.14	4.29	221.7	120.7	0.02	1161	5.1	3.344
790803	<0.1	8.63	1	<0.1	567	5	<0.1	0.79	0.1	392	2.1	53	9	3.08	7	<0.05	4.57	221.6	17.3	0.15	849	1.4	4.542
790804	<0.1	8.63	<1	<0.1	214	1	<0.1	1.2	<0.1	522	2.1	73	9.6	4.58	7.1	0.09	2.95	279.4	15	0.12	1226	1.1	4.864
790805	<0.1	8.82	1	<0.1	99	<1	<0.1	0.68	<0.1	42	1.1	58	6.1	2.75	1.2	<0.05	2.82	21.1	15.4	0.06	434	1.2	5.914
790806	<0.1	8.1	2	<0.1	667	4	<0.1	5.44	<0.1	162	37.6	48	48.6	7.39	5.5	0.06	2.04	86.4	144.5	2.88	1495	5.1	3.879
790807	<0.1	8.85	<1	<0.1	75	<1	<0.1	1.05	<0.1	539	2.5	58	11.4	4.99	7.4	0.08	3.48	285.1	15.7	0.1	1285	0.8	4.702
790808	<0.1	8.83	21	<0.1	114	<1	<0.1	0.97	<0.1	342	2	56	8.7	4.64	6.4	0.12	4	165.8	21.6	0.16	1165	1.1	4.4
790809	<0.1	7.75	<1	<0.1	338	5	<0.1	0.91	<0.1	202	1.6	62	5.5	3.63	8.5	0.08	3.65	101.7	17.8	0.11	786	3.1	4.24
790810	<0.1	7.56	<1	<0.1	348	5	<0.1	0.76	<0.1	152	1.6	54	5	3.47	7.8	0.08	3.82	63.3	19.4	0.12	778	1.6	4.523
790811	<0.1	6.98	<1	<0.1	342	8	<0.1	1.43	<0.1	133	11.6	94	6.3	3.89	14.3	0.08	3.24	60.5	63.9	0.68	781	5.9	3.931
790811 Re	<0.1	6.66	<1	<0.1	332	8	<0.1	1.37	<0.1	131	11.2	96	6.3	3.75	13.7	0.08	3.09	58.8	62.6	0.66	765	5.5	3.823
790812	<0.1	8.93	<1	<0.1	1831	7	<0.1	2.53	<0.1	224	15.1	47	3	6.46	7.6	0.05	2.91	123.5	137.5	1.26	1508	0.7	4.392
790813	<0.1	8.31	<1	<0.1	1549	7	<0.1	1.09	<0.1	77	3	50	2.7	4.05	6.9	0.06	3.52	35.7	20.5	0.23	981	2.8	4.503
790901	<0.1	6.03	6	<0.1	20	17	0.2	0.63	<0.1	678	0.4	105	9.3	5.88	25.2	0.15	3.69	375.8	118.6	0.03	1352	9.1	4.087
790902	<0.1	5.91	4	<0.1	33	24	0.3	0.44	<0.1	764	0.4	99	5.7	5.78	22.7	0.14	3.91	350.5	131.5	0.01	1364	14	3.946
790903	<0.1	6.41	2	<0.1	141	17	0.2	0.83	<0.1	997	1	106	9.6	5.37	18.4	0.13	3.29	553.8	46.6	0.25	977	7.6	3.047
790904	4.4	8.12	3	<0.1	541	32	0.8	2.11	0.3	277	18.9	51	411.7	4.61	21.5	0.07	2.49	165.9	70.1	1.23	1560	1.4	5.475
790905	0.2	6.72	4	<0.1	1012	4	0.2	7.42	0.4	295	37.7	43	173.7	10.32	5.7	0.12	1.53	148.3	67.6	2.5	2447	5.4	3.116
790905A	<0.1	9.48	2	<0.1	23	26	0.1	0.69	<0.1	206	0.5	42	7.7	2.67	8	<0.05	4.25	140.3	88.5	<0.01	1004	6.4	5.448
790906	<0.1	7.41	1	<0.1	426	5	<0.1	3.05	<0.1	256	19.3	57	85	5.38	8.8	0.07	3	142.8	50.8	1.36	1220	3.6	4.069
790907	<0.1	7.56	<1	<0.1	964	2	<0.1	5.62	<0.1	137	39.3	36	83.4	7.29	3.5	0.06	1.91	74.3	50.3	2.78	1583	1.7	3.069
790908	<0.1	8.37	2	<0.1	528	12	0.1	3.36	<0.1	242	21.1	46	32.8	5.21	18.6	0.05	3.16	139.9	239.9	1.86	1597	3.7	4.26
STD OREAS25A-4A	<0.1	8.64	8	<0.1	136	<1	0.3	0.26	<0.1	46	7.6	122	31.1	6.56	3.8	0.08	0.48	21.8	36.9	0.34	489	2.5	0.134
STD OREAS45H	0.1	8.33	16	<0.1	309	1	0.2	0.14	<0.1	23	87.9	681	778.2	19.43	3.1	0.1	0.2	12.2	13.5	0.26	422	1.5	0.093
STD OREAS25A-4A	<0.1	9.17	10	<0.1	151	<1	0.4	0.31	<0.1	50	8.2	125	34	6.57	3.8	0.08	0.48	23.9	36.5	0.29	506	2.4	0.126
STD OREAS45H	0.1	8	18	<0.1	378	1	0.2	0.14	<0.1	30	96.6	695	785.6	20.24	3.8	0.11	0.2	14.9	14.4	0.21	407	1.6	0.086
BLK	<0.1	<0.01	<1	<0.1	<1	<1	<0.1	<0.01	<0.1	<1	<0.2	<1	0.2	<0.01	<0.1	<0.05	<0.01	<0.1	<0.1	<0.01	<1	<0.1	<0.001
BLK	<0.1	<0.01	<1	<0.1	<1	<1	<0.1	<0.01	<0.1	<1	<0.2	1	0.2	<0.01	<0.1	<0.05	<0.01	<0.1	<0.1	<0.01	<1	<0.1	<0.001

A 0.25 g sample is digested with HClO4, HNO3, HCl, HF and diluted to 10 ml with D.I. H2O.

Signed: _____



TSL LABORATORIES INC.

2 - 302 48th Street East, Saskatoon, Saskatchewan, S7K 6A4
 Tel: (306) 931-1033 Fax: (306) 242-4717

Report No: S58786
 Date: January 11, 2021

Mr Tim Tuba
 Attention: T. Tuba
 Project: Marathon
 Sample: 22 Rock

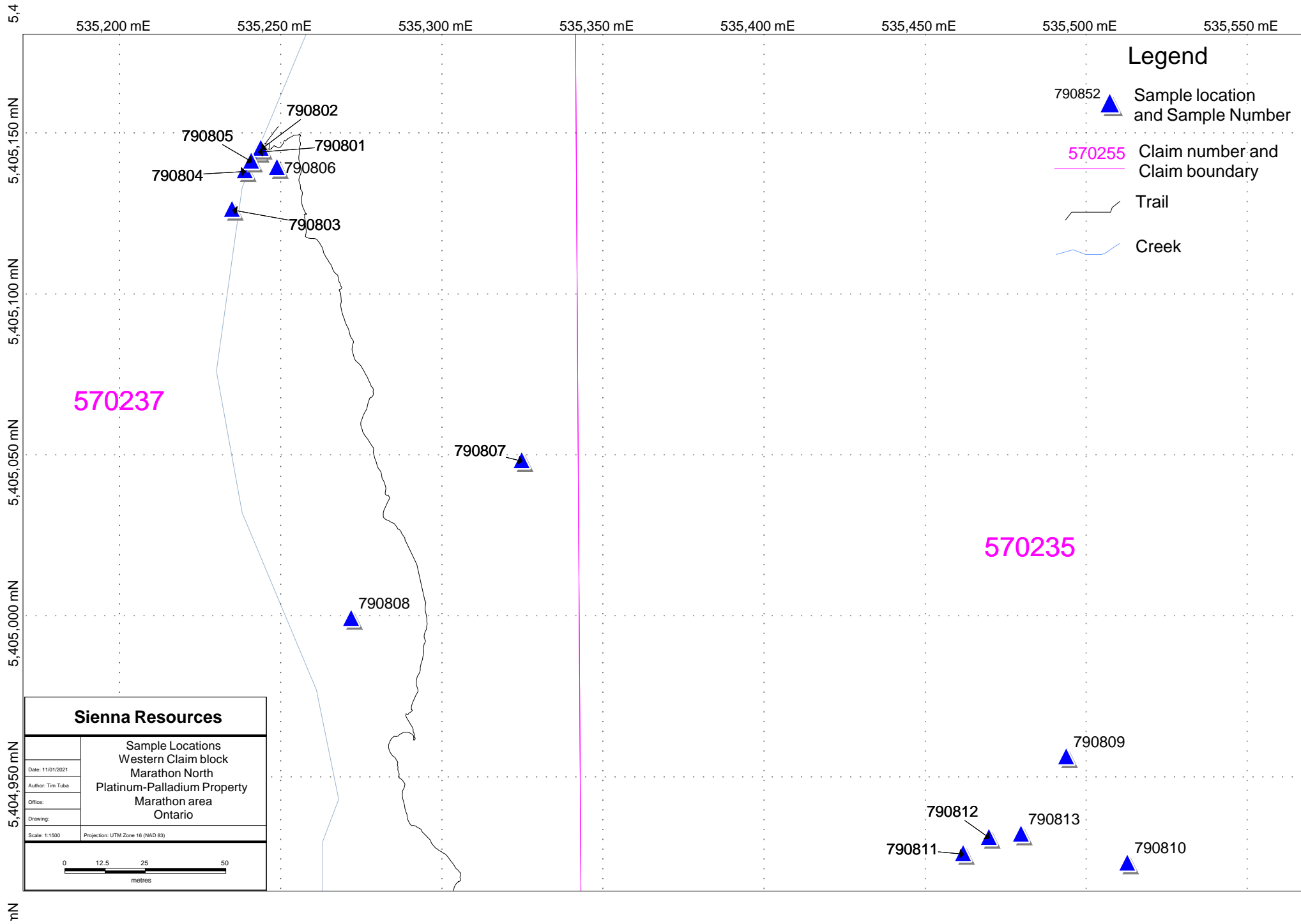
MULTIELEMENT ICP-MS ANALYSIS
 Multiacid Digestion

Element Sample	Nb ppm	Ni ppm	P %	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
790801	624.8	2.3	0.011	61.8	368.3	<0.005	<0.1	0.3	<1	<1	16.5	18	26.7	<0.5	91.6	0.363	1.1	24.1	1	2.5	145.8	344	1423.8
790802	603.8	1.7	0.008	62.2	421.7	<0.005	<0.1	0.5	<1	<1	14.5	11	25.9	<0.5	73.4	0.338	1.4	21.6	1	2.9	93.9	358	1223.2
790803	205.7	1.9	0.013	20.7	156.2	<0.005	<0.1	<0.1	2	<1	3	125	7.4	<0.5	49.9	0.147	<0.5	6.4	4	1	46	90	298.8
790804	214.4	1.1	0.015	10.8	148.4	<0.005	<0.1	<0.1	2	<1	2	92	5.5	<0.5	45.4	0.162	<0.5	2.8	<1	0.4	41.3	94	300.3
790805	74.2	1.7	0.003	8.5	125.2	<0.005	<0.1	<0.1	<1	<1	0.8	37	1.8	<0.5	1.2	0.107	<0.5	0.2	<1	0.5	4.6	42	51.8
790806	78.1	47.9	0.225	11.2	165.5	<0.005	<0.1	<0.1	20	<1	2.6	809	3.3	<0.5	13.2	0.561	0.6	3	182	0.7	30.7	116	272.8
790807	351.8	1.4	0.016	9.3	228.3	<0.005	<0.1	<0.1	<1	<1	2.6	21	12	<0.5	60.8	0.121	<0.5	7	<1	0.4	40.5	93	314.6
790808	293.8	1	0.02	7.9	225	<0.005	<0.1	0.1	2	<1	2.1	21	9	<0.5	35.1	0.18	<0.5	5	<1	0.7	27.5	85	261
790809	146.5	1.6	0.02	14.3	194.9	<0.005	<0.1	<0.1	4	<1	2.2	55	6.1	<0.5	25.4	0.265	0.5	4.5	1	1	30.1	67	424.3
790810	156.5	0.9	0.019	14.7	210.3	<0.005	<0.1	<0.1	4	<1	2.7	53	6.1	<0.5	24.1	0.27	0.5	4.3	<1	1.1	19.9	86	387.7
790811	354.9	7.3	0.132	22.8	235.6	<0.005	<0.1	<0.1	4	<1	4.3	300	19.8	<0.5	37.1	0.298	0.6	16	79	1.7	41.3	117	613.1
790811 Re	359.3	7	0.128	22.2	234.8	<0.005	<0.1	<0.1	4	<1	4.1	294	19.6	<0.5	37.2	0.288	0.6	16.1	78	1.7	40.3	111	589.5
790812	155.2	5.6	0.314	18.9	212.6	<0.005	<0.1	<0.1	6	<1	4.5	1099	6.8	<0.5	24.2	0.476	0.7	5.3	39	0.5	27.2	125	416.8
790813	116.7	1.3	0.033	10.9	196.9	<0.005	<0.1	<0.1	5	<1	4.2	251	4.9	<0.5	11.4	0.347	0.6	3	3	0.7	17.1	84	351.2
790901	605.1	1.3	0.011	71.9	433.4	<0.005	<0.1	0.4	<1	<1	17.6	8	23.7	<0.5	74.6	0.414	1.7	18.1	<1	4.5	128	346	1289.6
790902	850.7	2.1	0.013	78.2	454.5	<0.005	<0.1	0.5	<1	<1	16.3	9	35.2	<0.5	96.7	0.355	1.2	26.8	<1	9.9	69.3	348	1144.2
790903	623.9	2.1	0.013	23.8	381.9	<0.005	<0.1	0.4	<1	<1	12.7	14	27.5	<0.5	62.5	0.365	0.9	23.2	<1	10.4	121.9	313	900.7
790904	643.9	26.1	0.108	61.3	305.4	<0.005	<0.1	0.6	9	<1	19.3	406	31.8	<0.5	80.7	0.299	1.3	24.6	81	10.8	87.8	359	1117
790905	109.6	19.8	0.538	21.4	80.1	<0.005	<0.1	0.2	23	<1	5	387	4.3	<0.5	13.3	1.015	0.7	4.6	375	6.9	58.6	194	282.3
790905A	168.1	1.1	0.008	29.7	277.2	<0.005	<0.1	0.3	<1	<1	7.6	252	7.4	<0.5	53.2	0.038	1.3	10	<1	14.2	44	189	392.2
790906	123.8	23.5	0.116	18.6	152.6	<0.005	<0.1	0.2	11	<1	2.5	295	5.1	<0.5	23.3	0.389	0.6	4.1	85	3.1	31.9	114	497.2
790907	59.9	39.4	0.238	8.3	106.6	<0.005	<0.1	0.1	21	<1	1.4	808	2.5	<0.5	10.6	0.517	<0.5	2.1	209	1	25.9	87	162.9
790908	331.1	33.3	0.09	36	427	<0.005	<0.1	0.2	11	<1	6.7	558	13.5	<0.5	49.9	0.269	1.1	11.1	77	3.8	57.1	164	998.4
STD OREAS25A-4A	19.3	46.1	0.046	22.2	61.1	<0.005	<0.1	0.6	13	2	3.7	46	1.3	<0.5	14.3	0.958	<0.5	2.6	163	1.7	9.8	42	149.1
STD OREAS45H	13.3	452	0.022	11.1	22.4	<0.005	<0.1	0.5	57	2	1.9	27	0.9	<0.5	6.5	0.914	<0.5	1.5	293	0.8	9	36	120.1
STD OREAS25A-4A	19.7	46.8	0.048	25.4	60	<0.005	<0.1	0.6	13	3	4.1	47	1.4	<0.5	17.5	0.932	<0.5	2.9	164	1.7	10.4	47	139.2
STD OREAS45H	14.7	461.5	0.021	12.5	24.4	<0.005	<0.1	0.6	61	2	2.3	31	1	<0.5	9.1	0.892	<0.5	1.8	282	1	10.7	43	125.8
BLK	<0.1	<0.1	<0.001	<0.1	<0.1	<0.005	<0.1	<0.1	<1	<1	<0.1	<1	<0.1	<0.5	<0.1	<0.001	<0.5	<0.1	<1	<0.1	<0.1	<1	<0.1
BLK	<0.1	<0.1	<0.001	<0.1	<0.1	<0.005	<0.1	<0.1	<1	<1	<0.1	<1	<0.1	<0.5	<0.1	<0.001	<0.5	<0.1	<1	<0.1	<0.1	<1	0.1


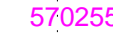
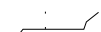

A 0.25 g sample is digested with HClO4, HNO3, HCl, HF and diluted to 10 ml with D.I. H2O.

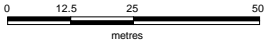
Signed: 

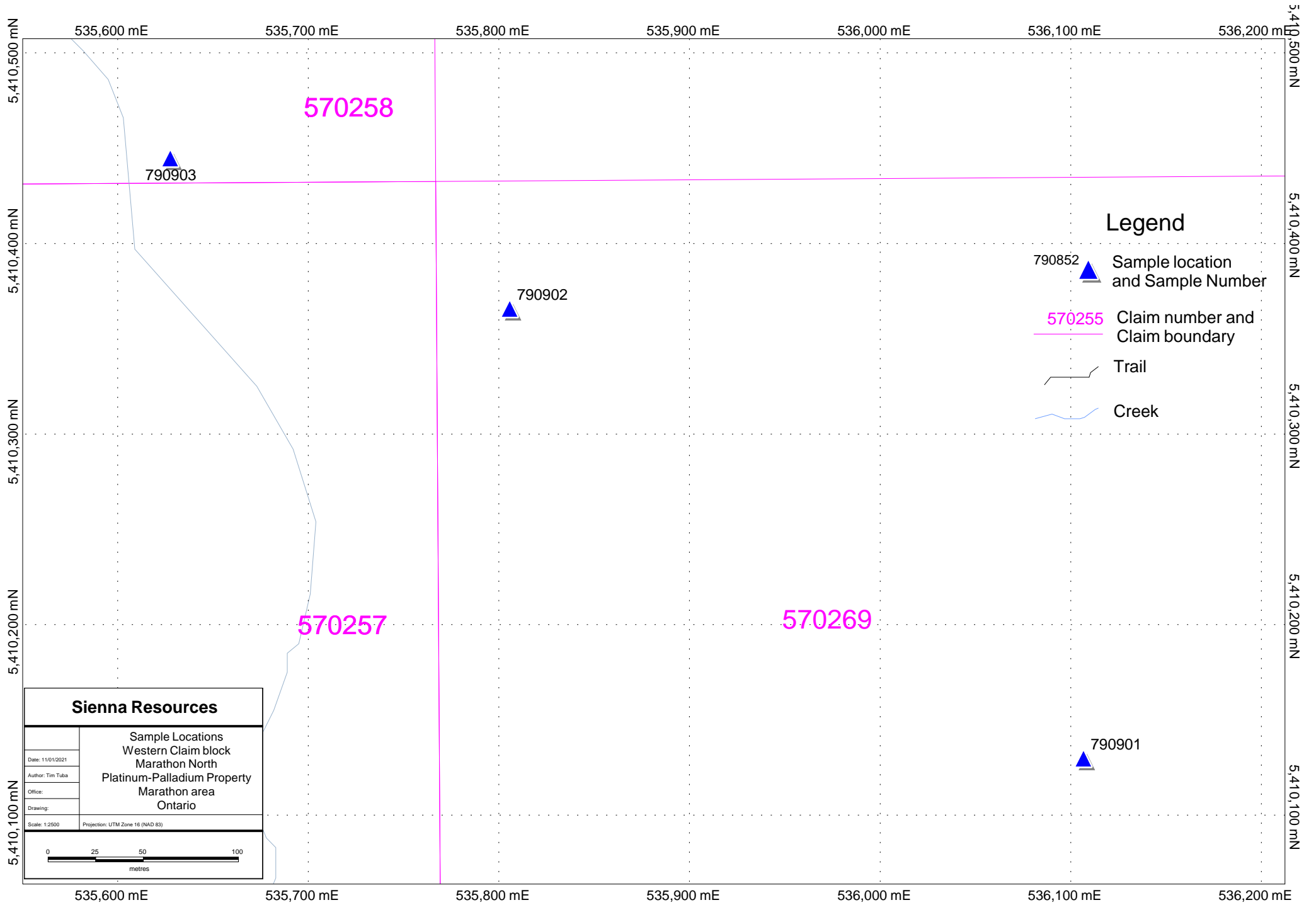
Appendix 5 – Sample Location Maps







Legend

- 790852  Sample location and Sample Number
-  570255 Claim number and Claim boundary
-  Trail
-  Creek

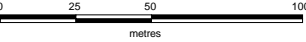
Sienna Resources	
Sample Locations Western Claim block Marathon North Platinum-Palladium Property Marathon area Ontario	
Date: 11/01/2021	
Author: Tim Tuba	
Office:	
Drawing:	
Scale: 1:1500	Projection: UTM Zone 16 (NAD 83)
	

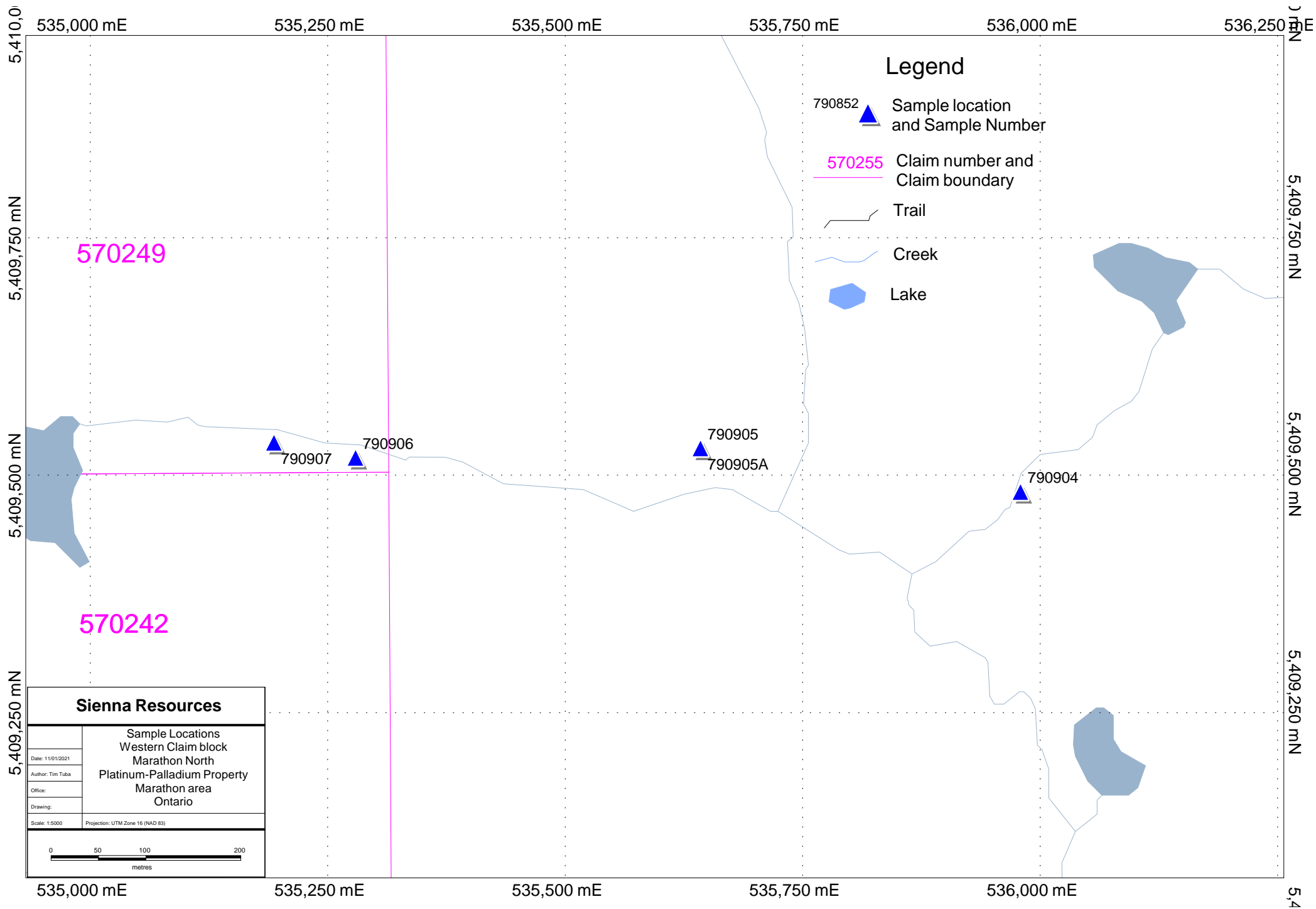


Legend

- 790852  Sample location and Sample Number
- 570255  Claim number and Claim boundary
-  Trail
-  Creek

Sienna Resources

Sample Locations Western Claim block Marathon North Platinum-Palladium Property Marathon area Ontario	
Date: 11/01/2021	
Author: Tim Tuba	
Office:	
Drawing:	
Scale: 1:2500	Projection: UTM Zone 16 (NAD 83)
	



535,000 mE

535,250 mE

535,500 mE

535,750 mE

536,000 mE

536,250 mE

5,410,0

5,409,750 mN

5,409,500 mN

5,409,250 mN

5,410,0

5,409,750 mN

5,409,500 mN

5,409,250 mN

5,4

570249

570242

790907

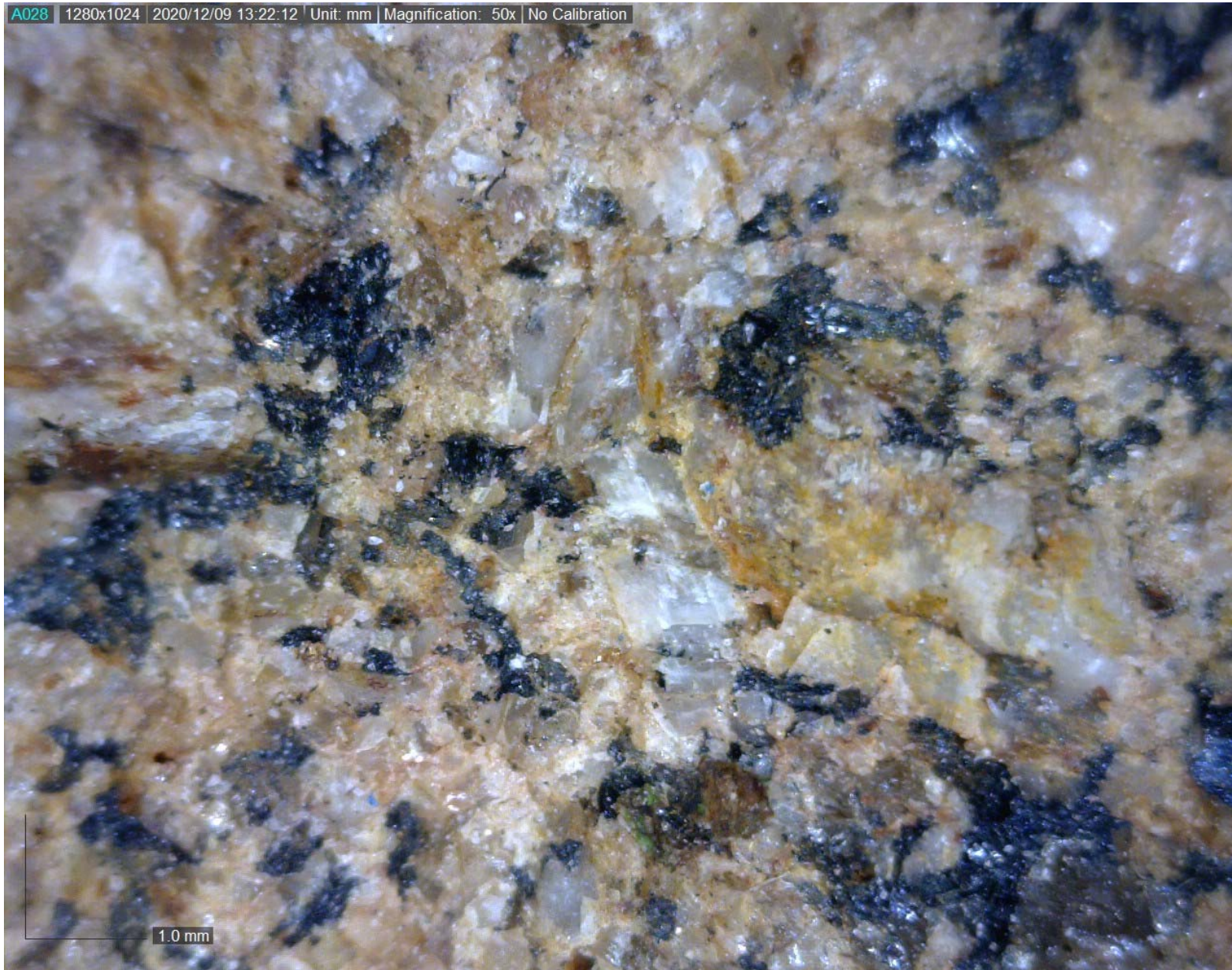
790906

790905
790905A

790904

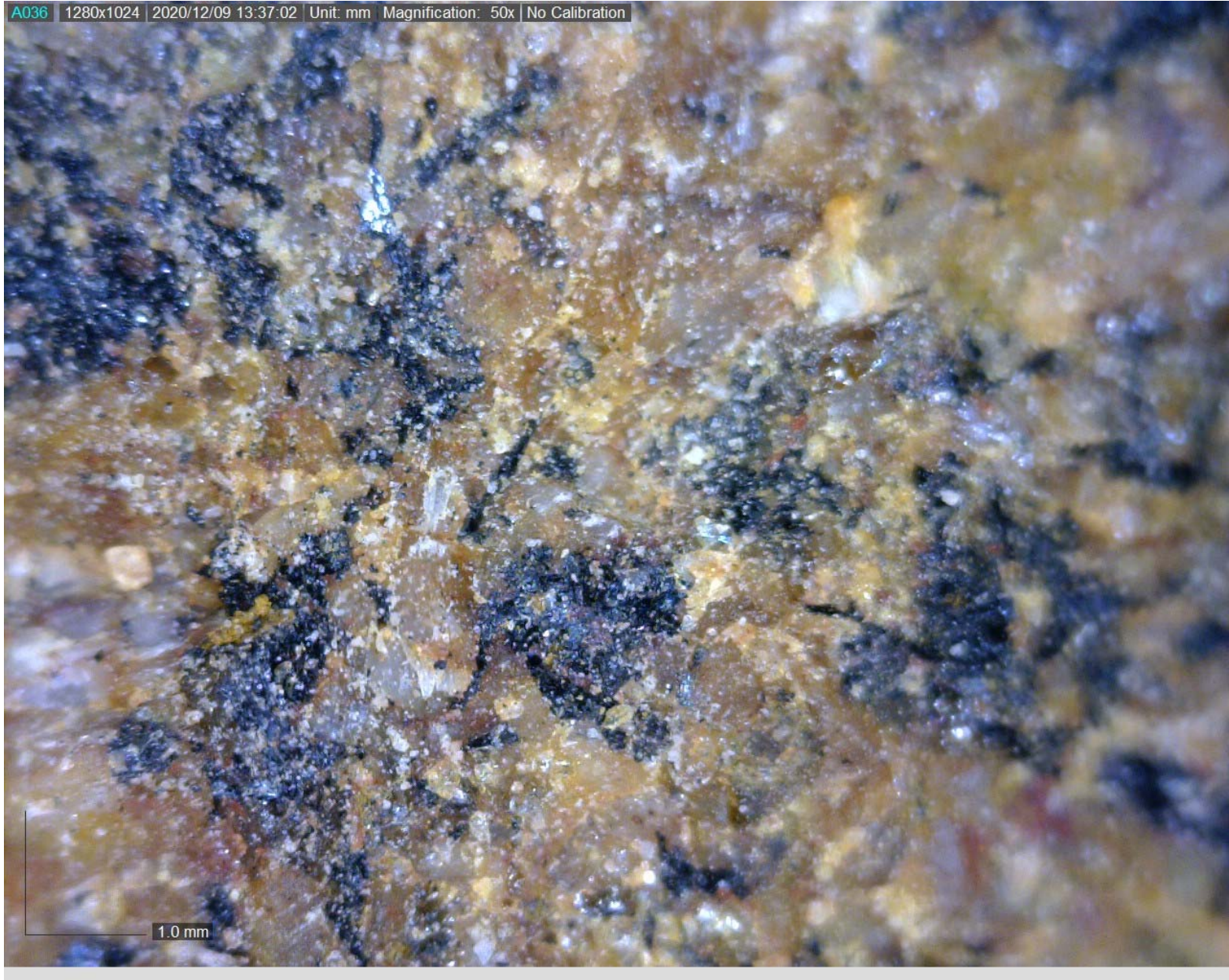
Appendix 6 – Sample Photos

A028 | 1280x1024 | 2020/12/09 13:22:12 | Unit: mm | Magnification: 50x | No Calibration



NO 1: Sample 790801

A036 | 1280x1024 | 2020/12/09 13:37:02 | Unit: mm | Magnification: 50x | No Calibration



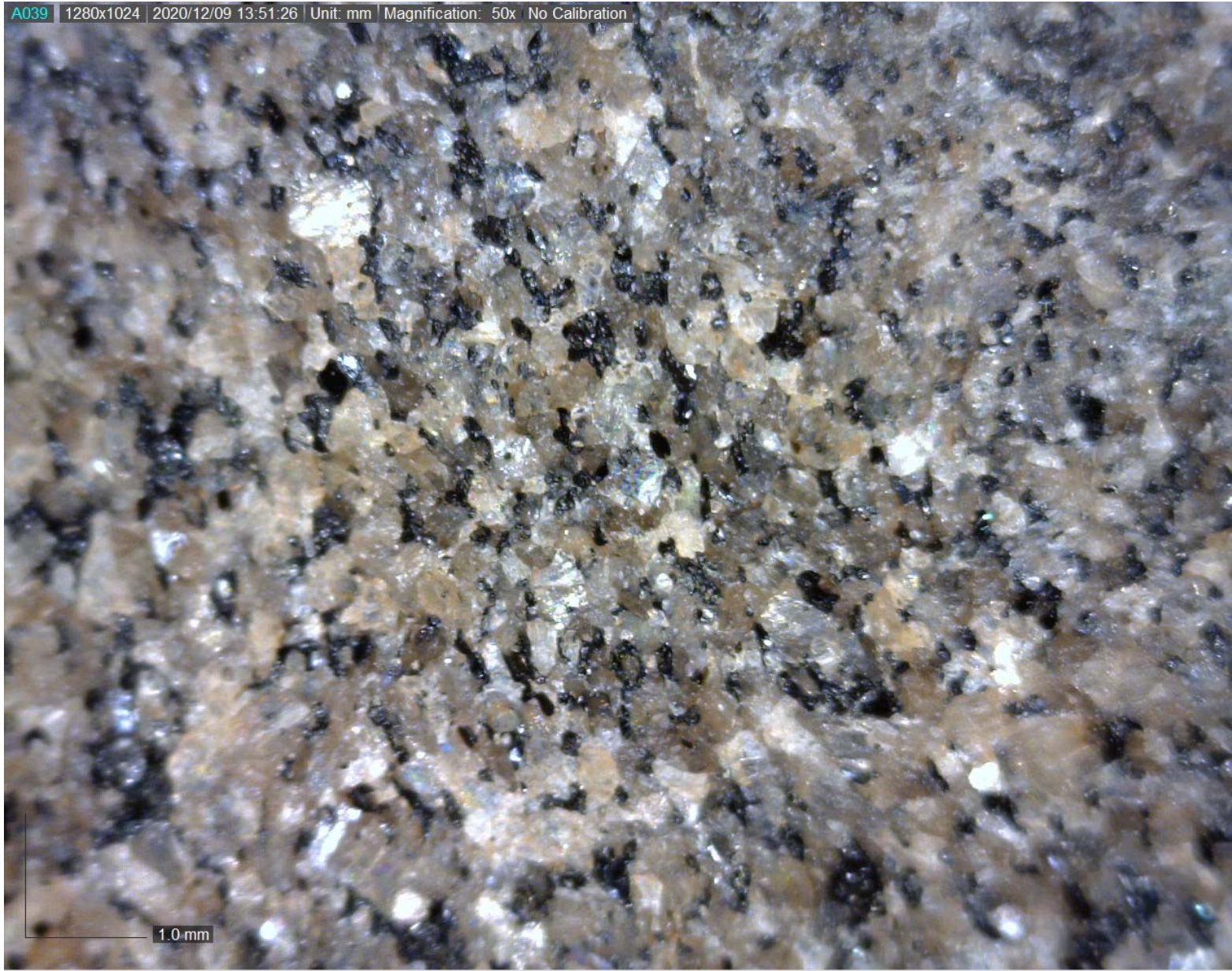
NO 2: Sample 790802

A038 1280x1024 2020/12/09 13:44:18 Unit: mm Magnification: 50x No Calibration



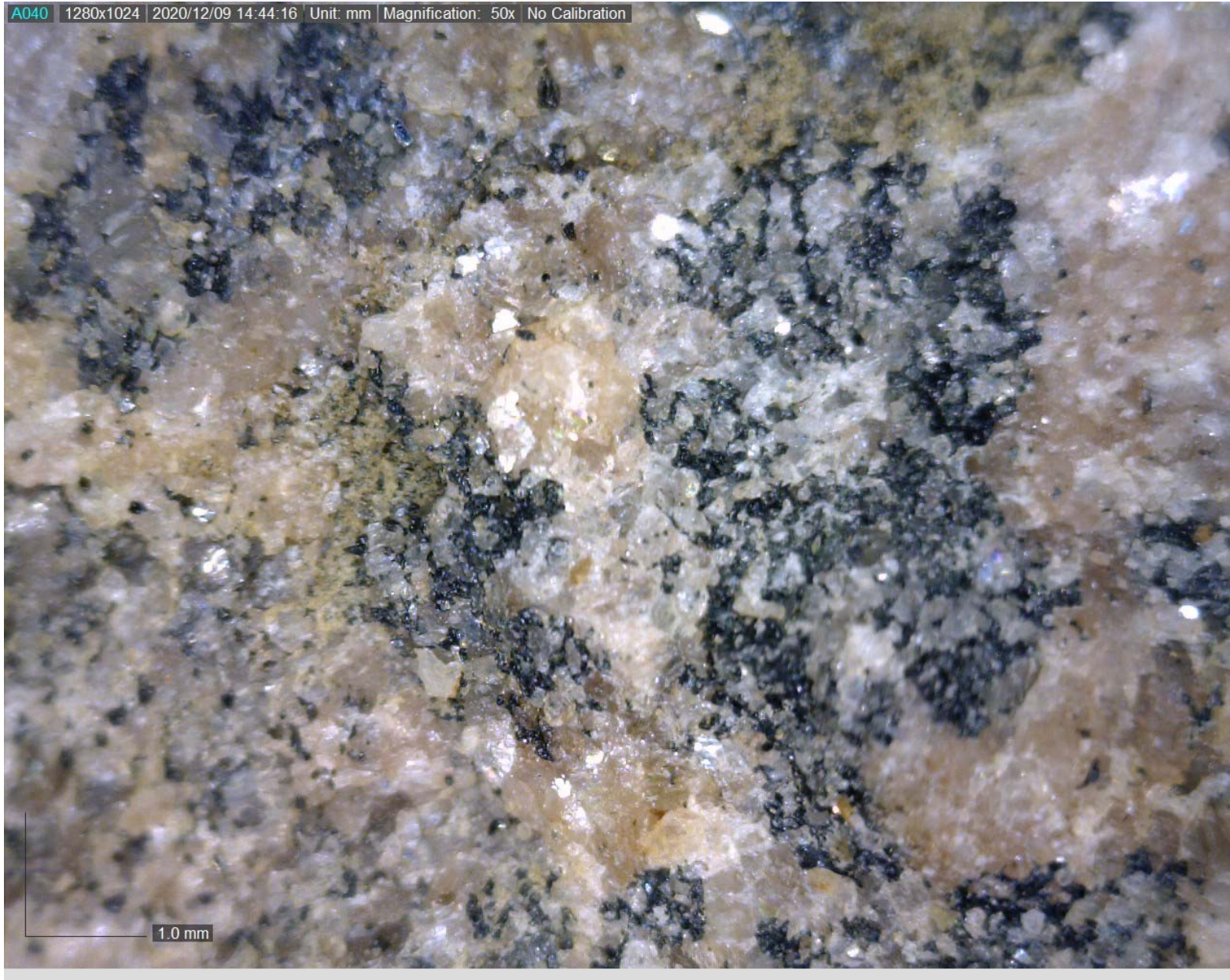
NO 3: Sample 790803

A039 | 1280x1024 | 2020/12/09 13:51:26 | Unit: mm | Magnification: 50x | No Calibration



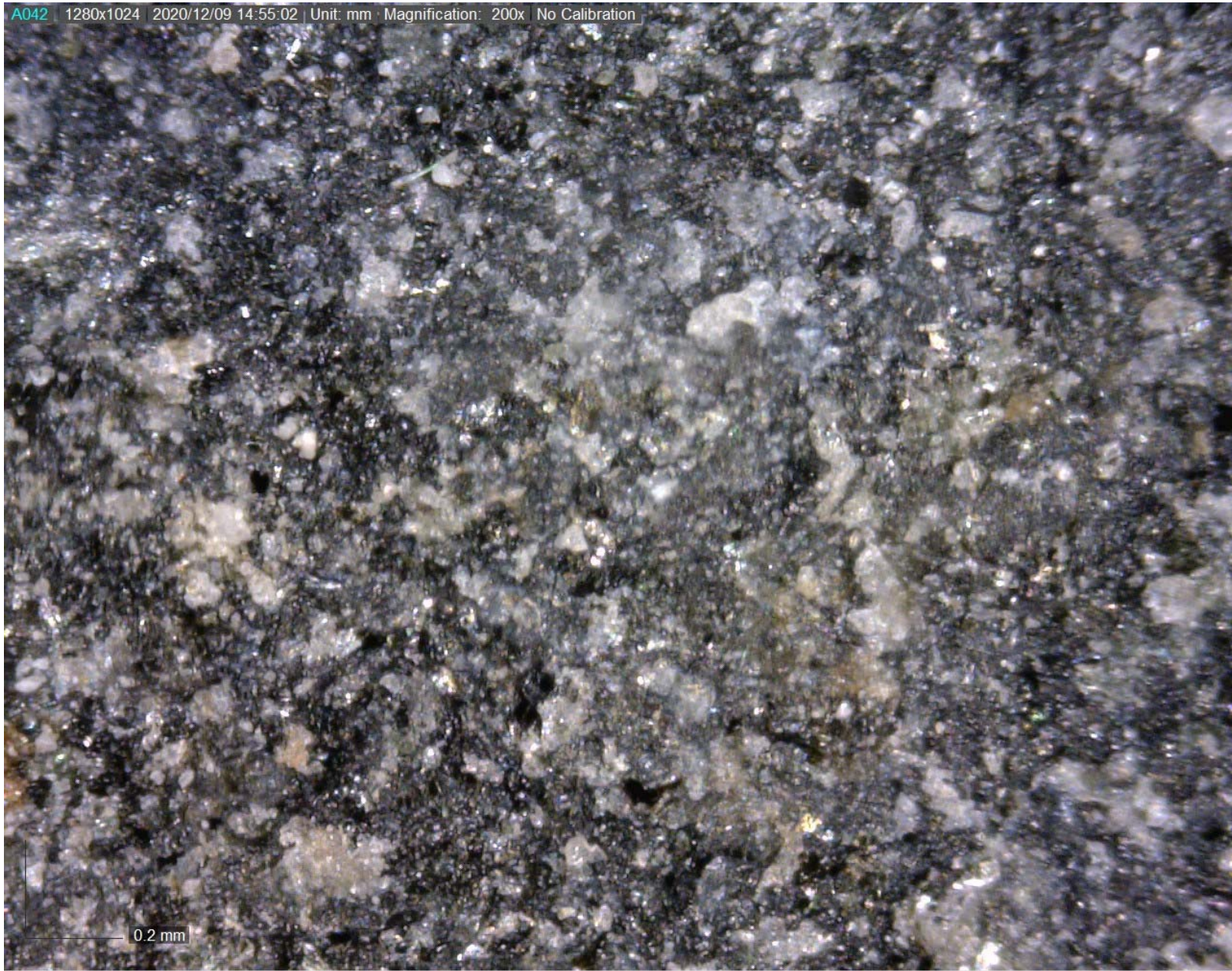
NO 4: Sample 790804

A040 1280x1024 2020/12/09 14:44:16 Unit: mm Magnification: 50x No Calibration



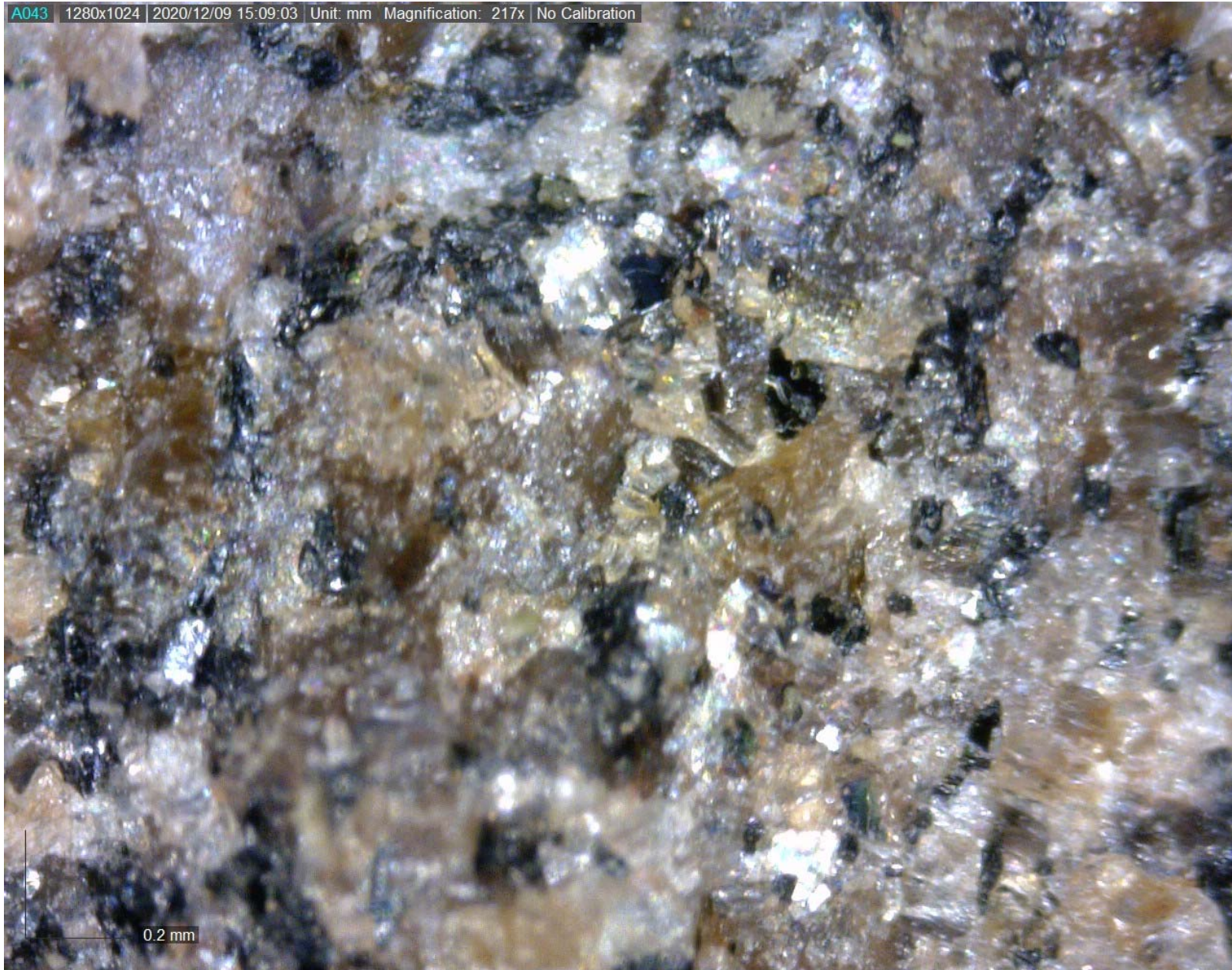
NO 5: Sample 790805

A042 | 1280x1024 | 2020/12/09 14:55:02 | Unit: mm | Magnification: 200x | No Calibration



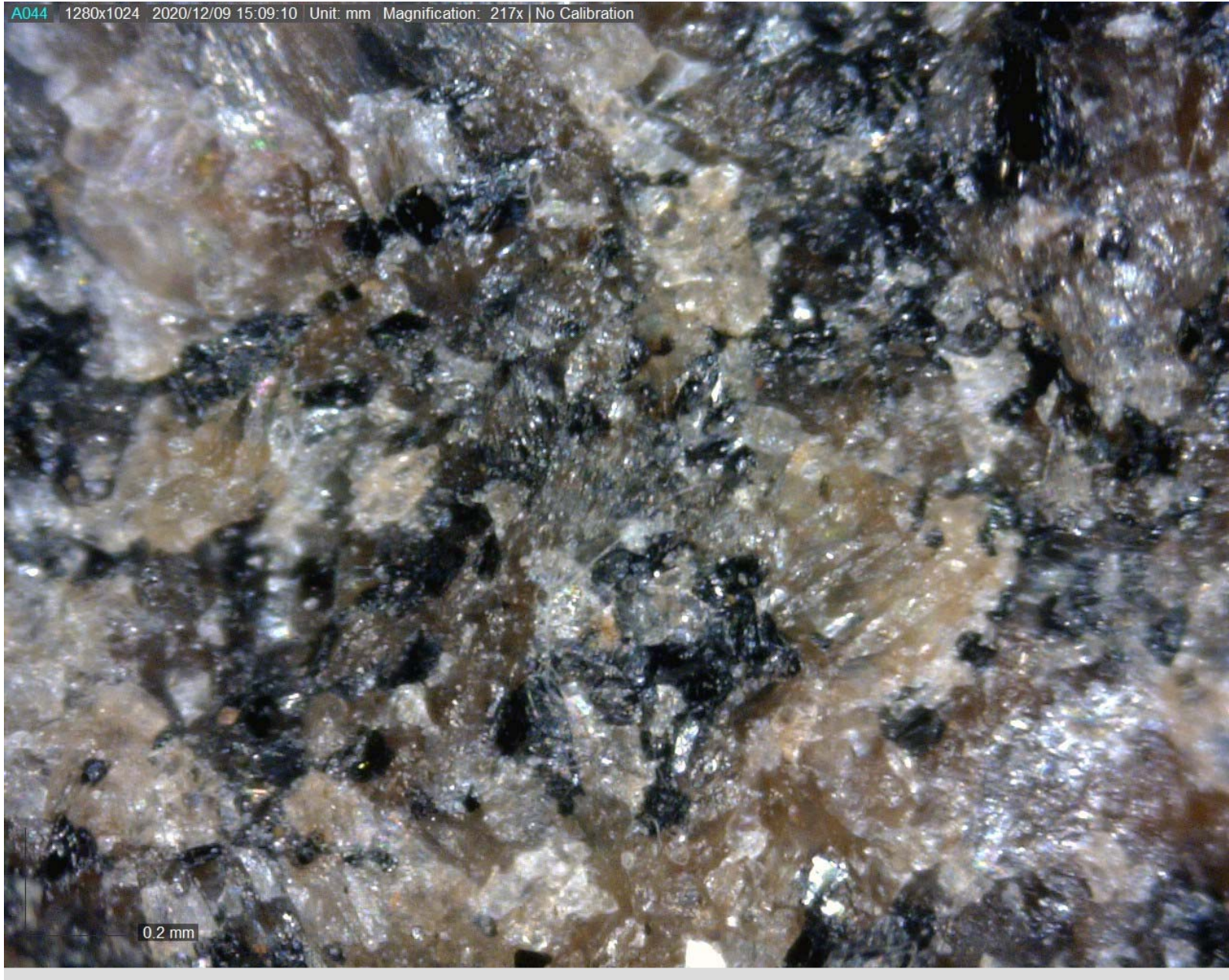
NO 6: Sample 790806

A043 1280x1024 2020/12/09 15:09:03 Unit: mm Magnification: 217x No Calibration



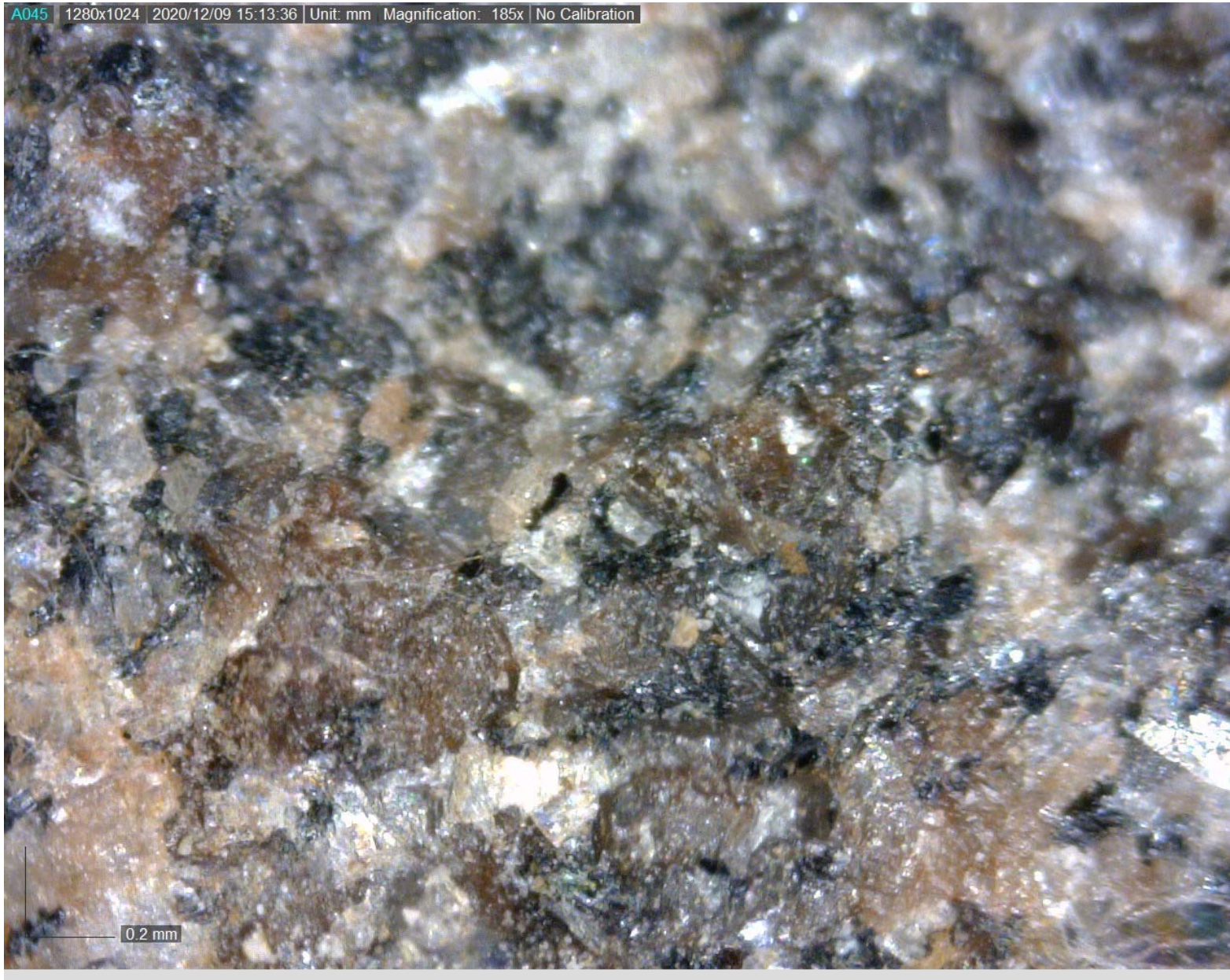
NO 7: Sample 790807 (1)

A044 1280x1024 2020/12/09 15:09:10 Unit: mm Magnification: 217x | No Calibration



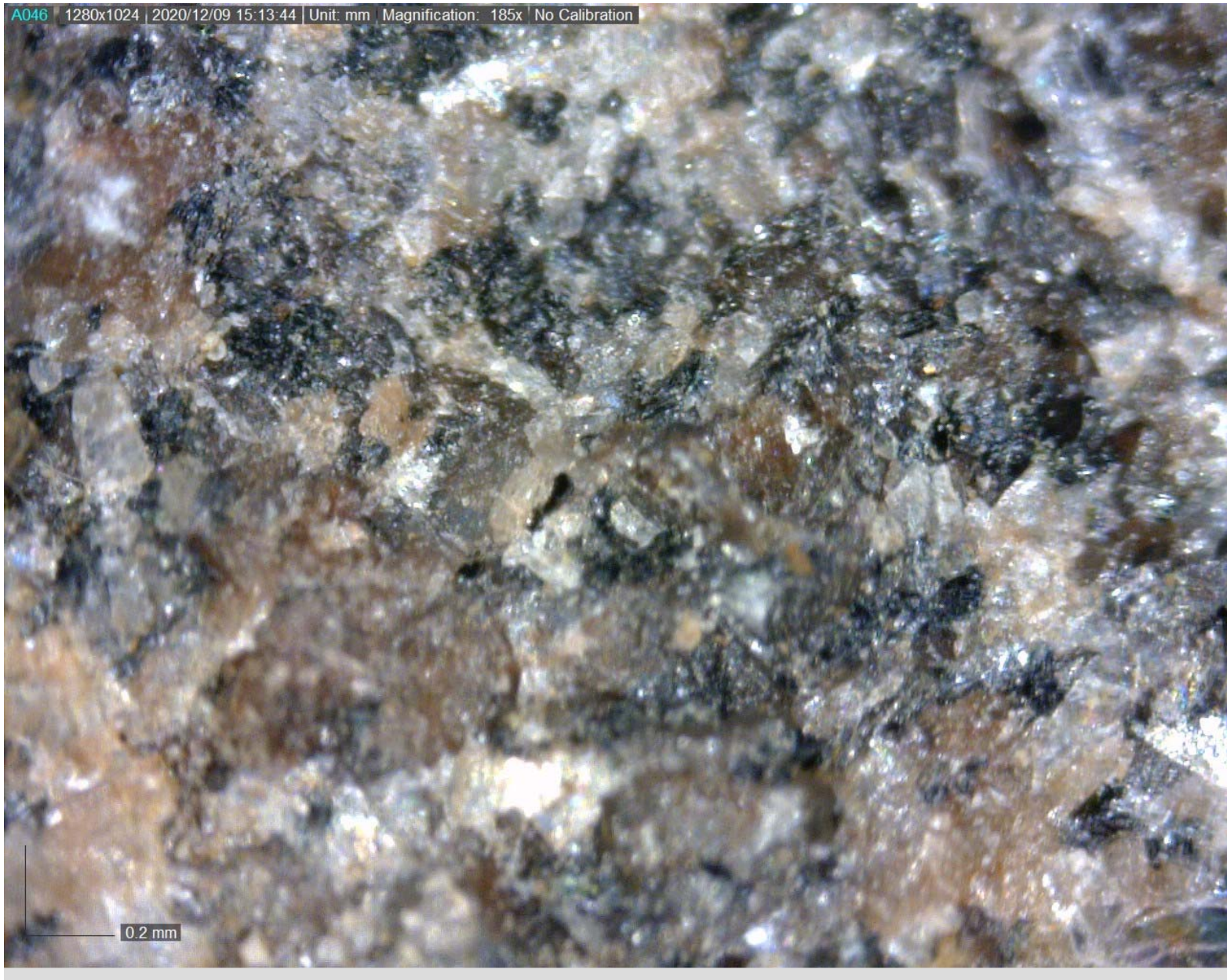
NO 8: Sample 790807 (2)

A045 | 1280x1024 | 2020/12/09 15:13:36 | Unit: mm | Magnification: 185x | No Calibration



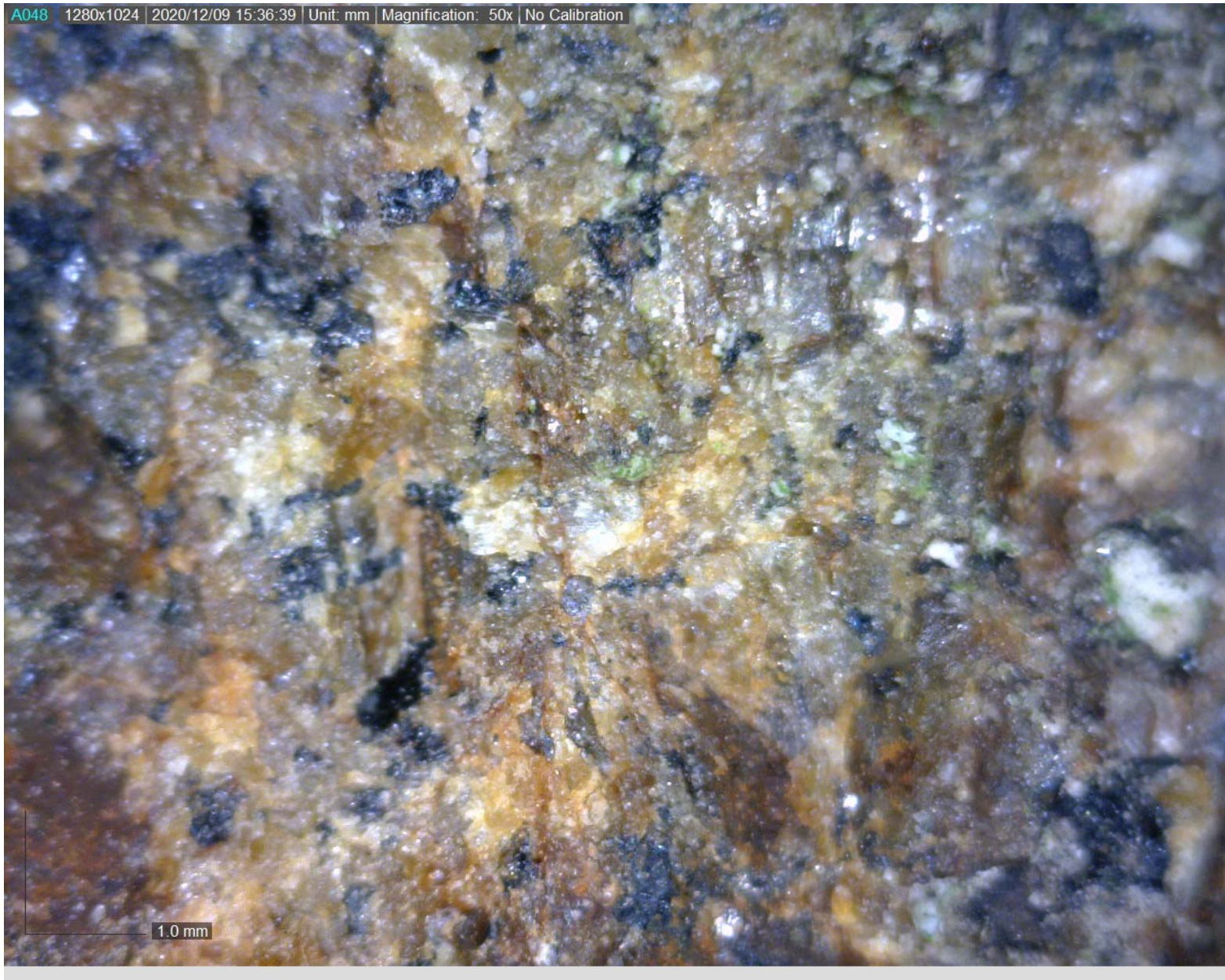
NO 9: Sample 790808

A046 | 1280x1024 | 2020/12/09 15:13:44 | Unit: mm | Magnification: 185x | No Calibration



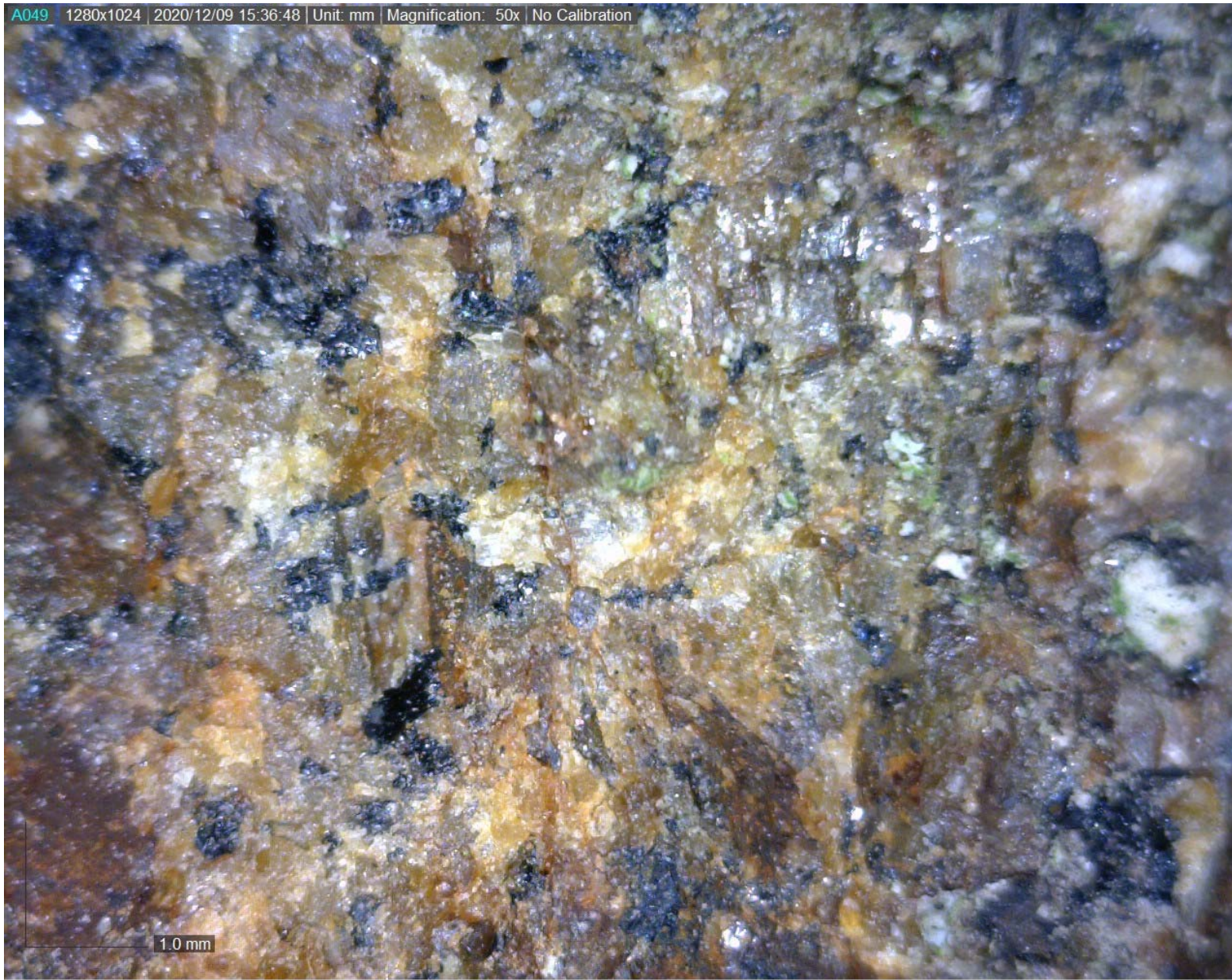
NO 10: 790809 (1)

A048 1280x1024 2020/12/09 15:36:39 Unit: mm Magnification: 50x No Calibration

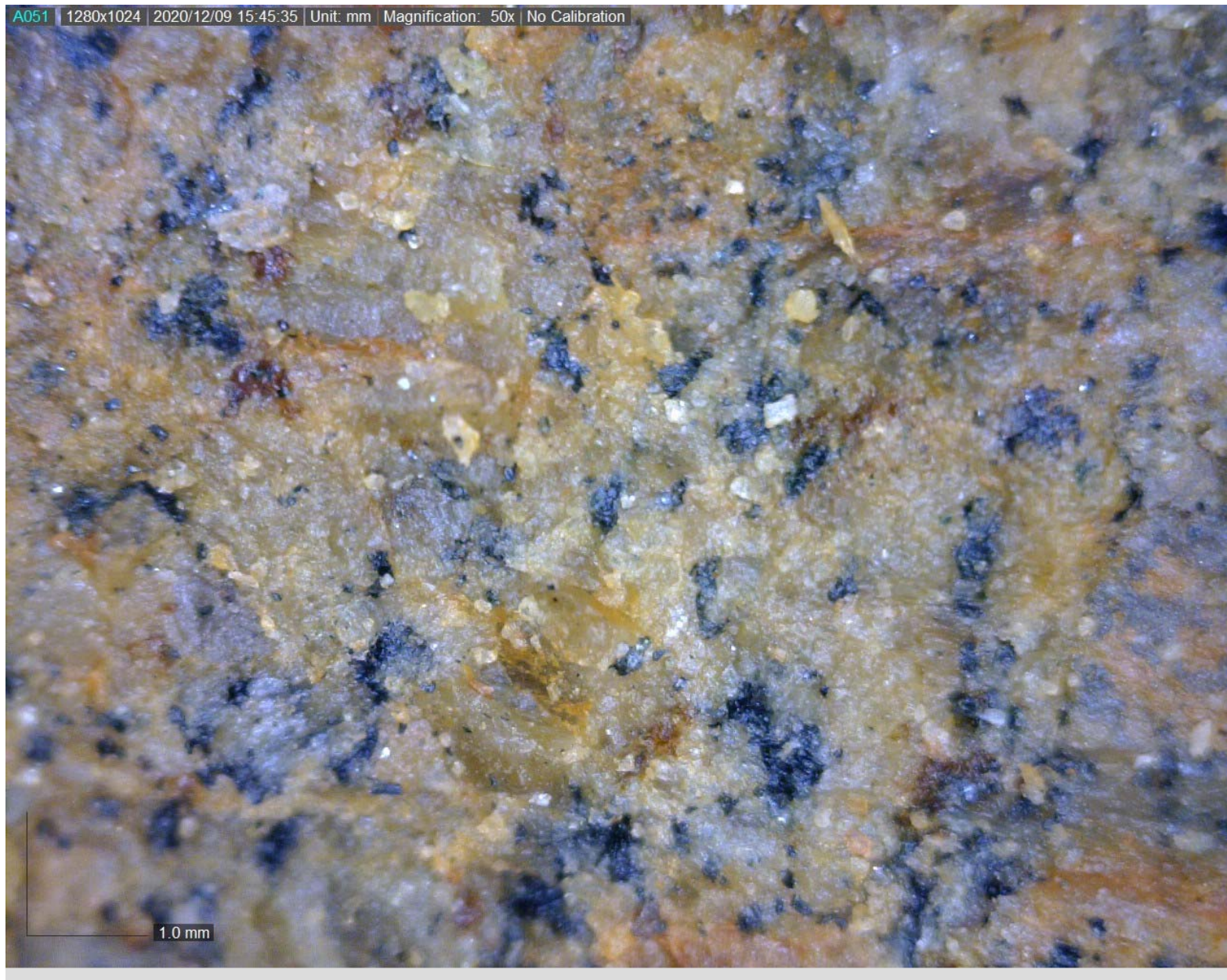


NO 11: Sample 790809 (2)

A049 1280x1024 2020/12/09 15:36:48 Unit: mm Magnification: 50x No Calibration

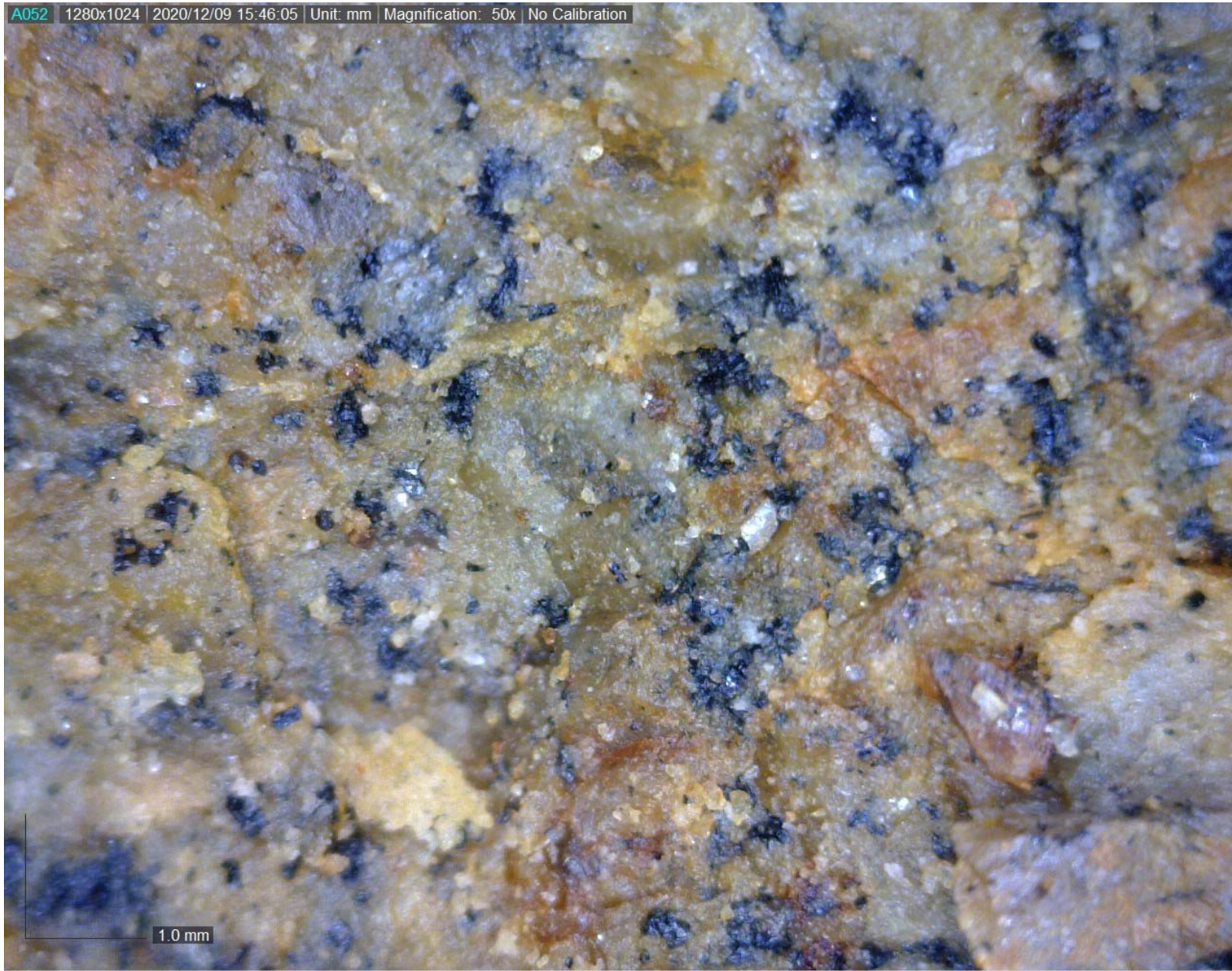


NO 12: Sample 790809 (3)



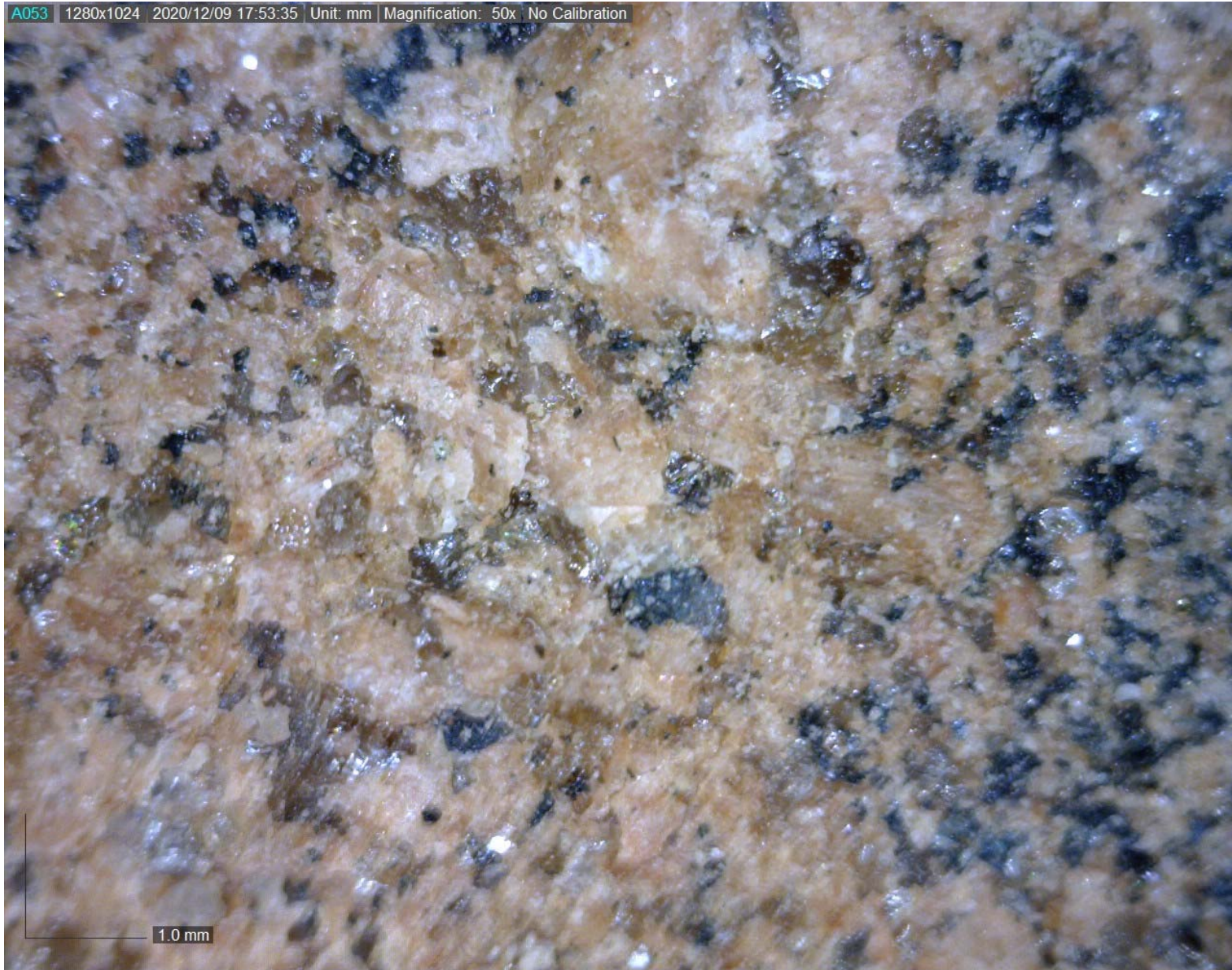
NO 13: Sample 790810 (1)

A052 1280x1024 2020/12/09 15:46:05 Unit: mm Magnification: 50x No Calibration



NO 14: Sample 790810 (2)

A053 | 1280x1024 | 2020/12/09 17:53:35 | Unit: mm | Magnification: 50x | No Calibration



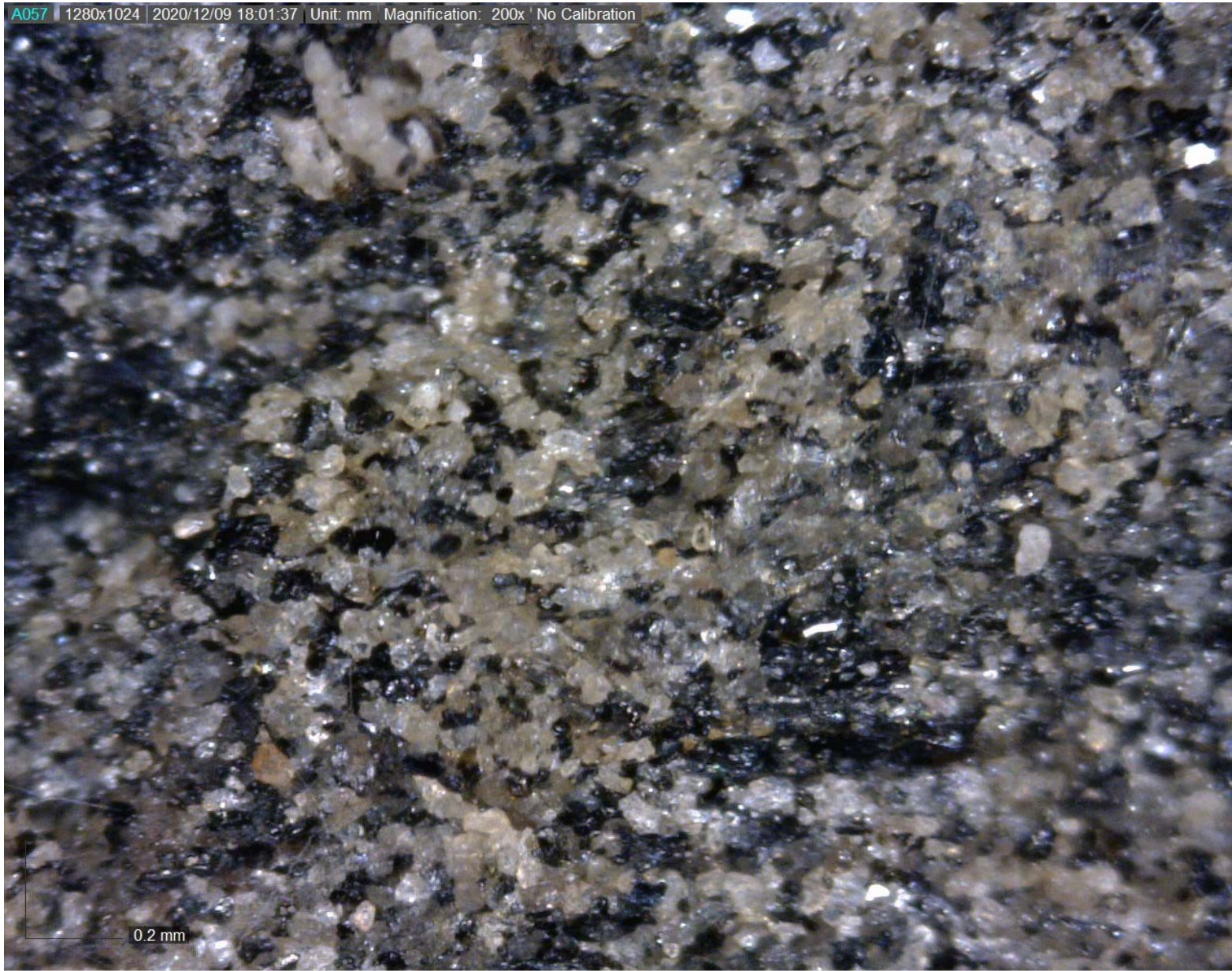
NO 15: Sample 790811 (1)

A054 | 1280x1024 | 2020/12/09 17:54:01 | Unit: mm | Magnification: 50x | No Calibration



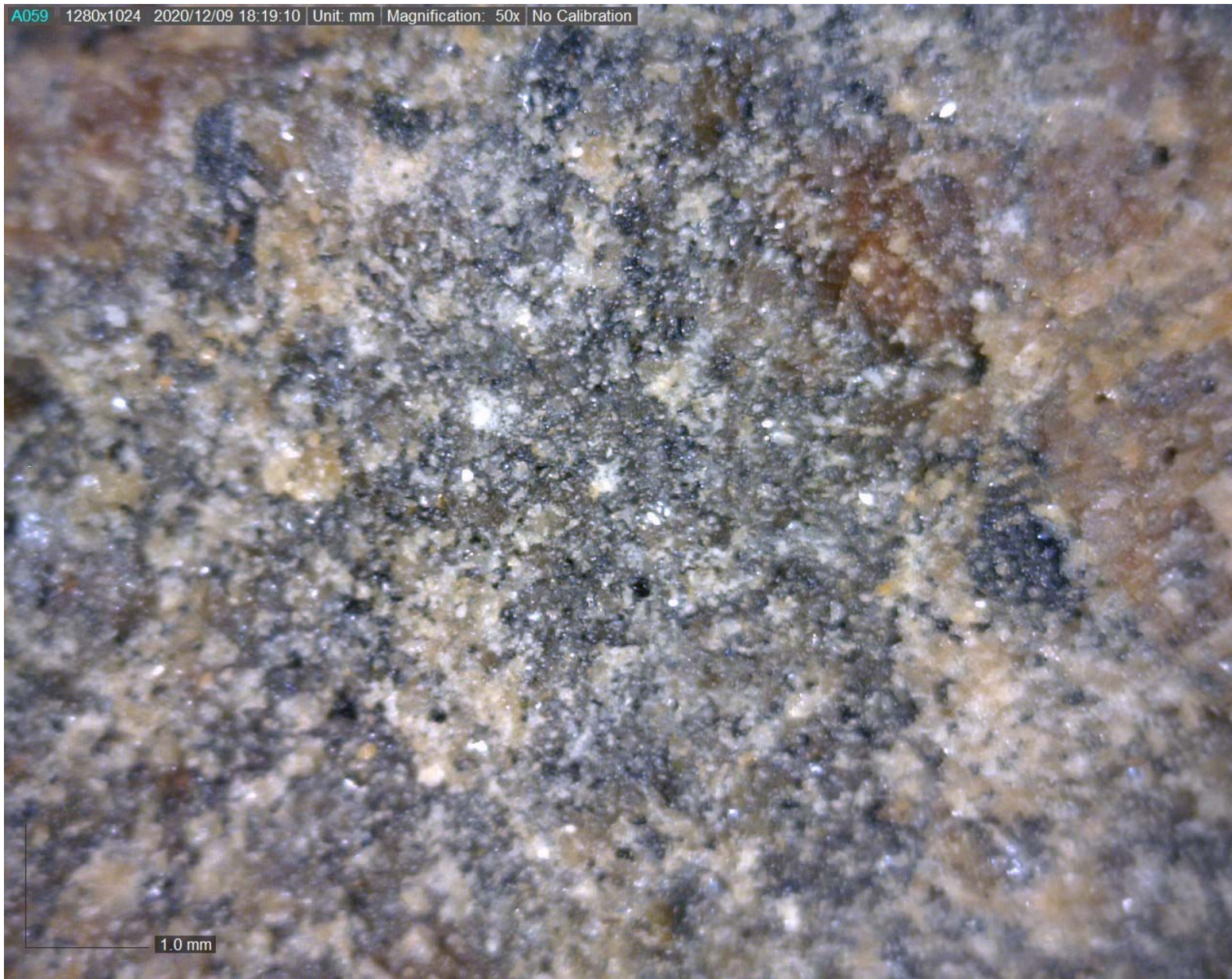
NO 16: Sample 790811(2)

A057 | 1280x1024 | 2020/12/09 18:01:37 | Unit: mm | Magnification: 200x | No Calibration

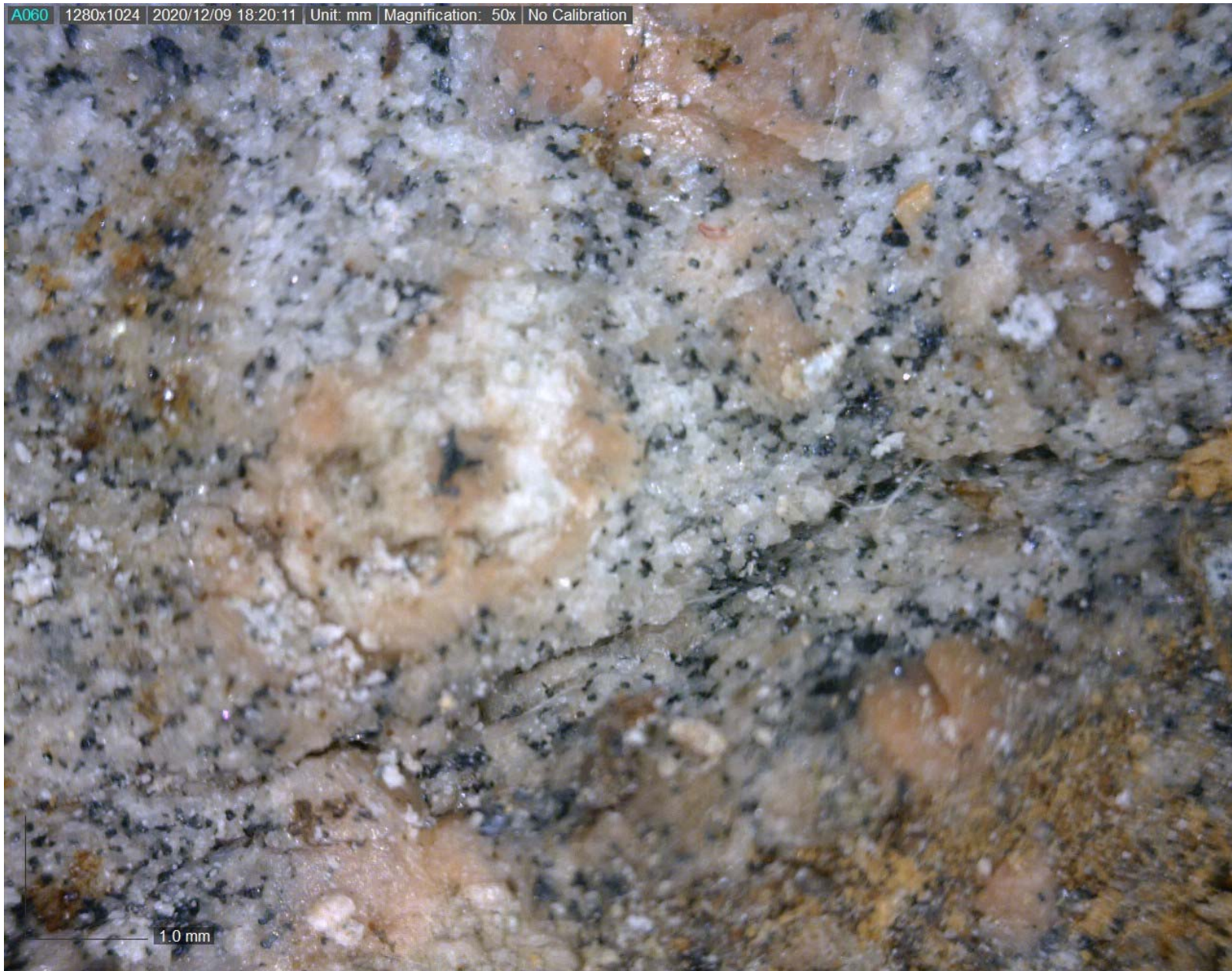


NO 17: Sample 790812

A059 1280x1024 2020/12/09 18:19:10 Unit: mm Magnification: 50x No Calibration

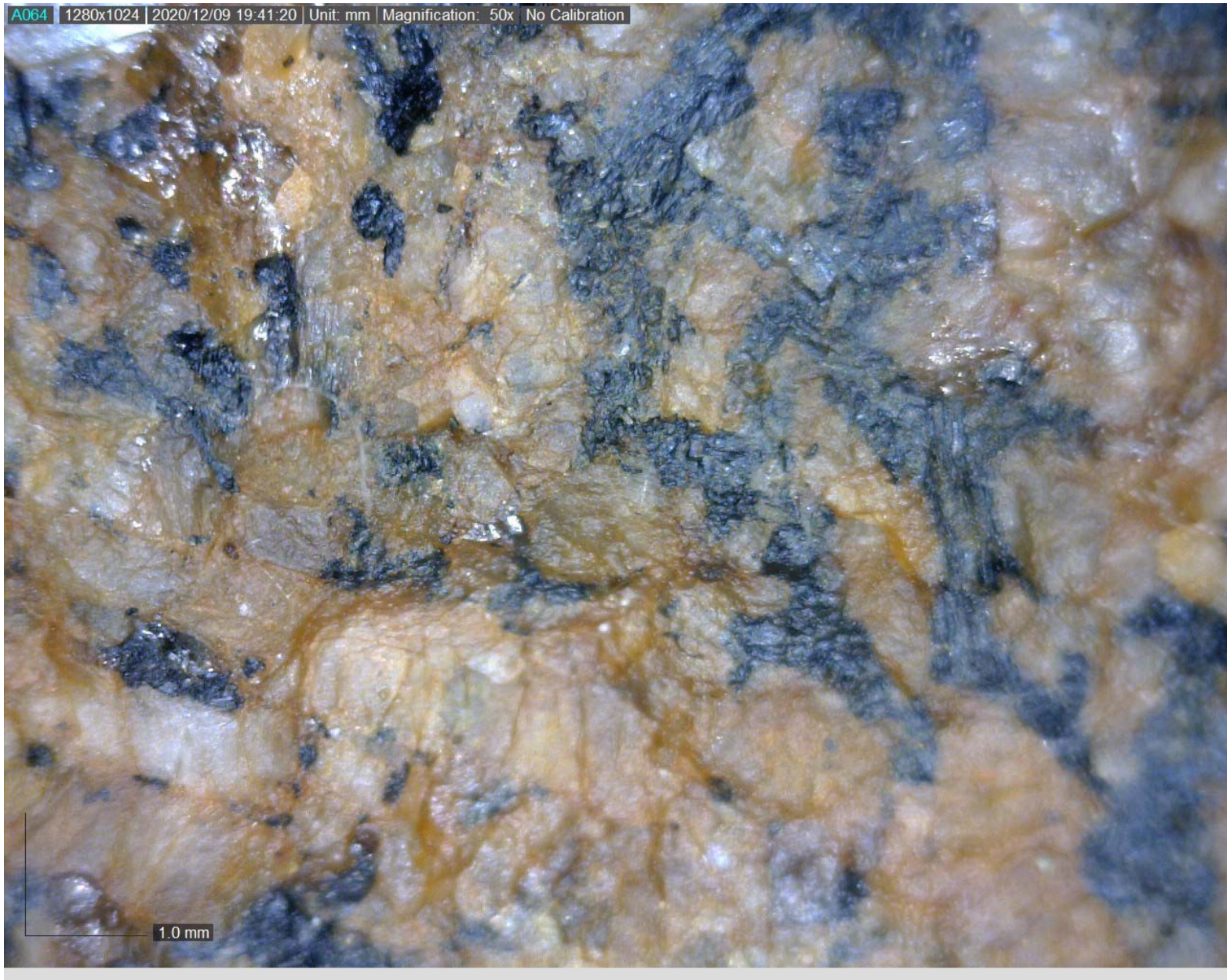


NO 18: Sample 790813 (1)



NO 19: Sample 790813 (2)

A064 | 1280x1024 | 2020/12/09 19:41:20 | Unit: mm | Magnification: 50x | No Calibration



NO 20: Sample 790901

A097 1280x1024 2020/12/09 20:11:07 Unit: mm Magnification: 50x No Calibration

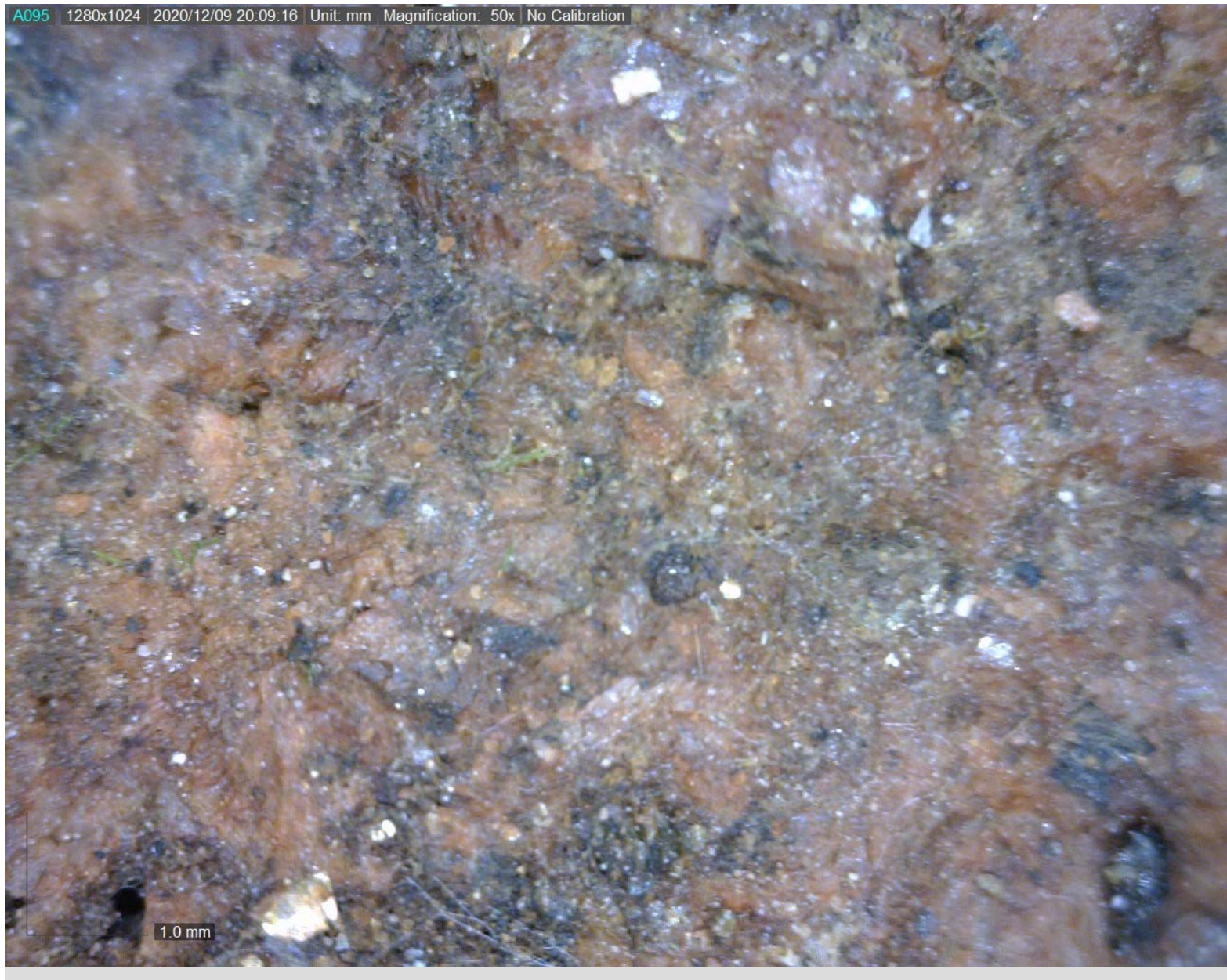


NO 21: Sample 790902 (1)

A098 | 1280x1024 | 2020/12/09 20:11:17 | Unit: mm | Magnification: 50x | No Calibration



NO 22: Sample 790902 (2)



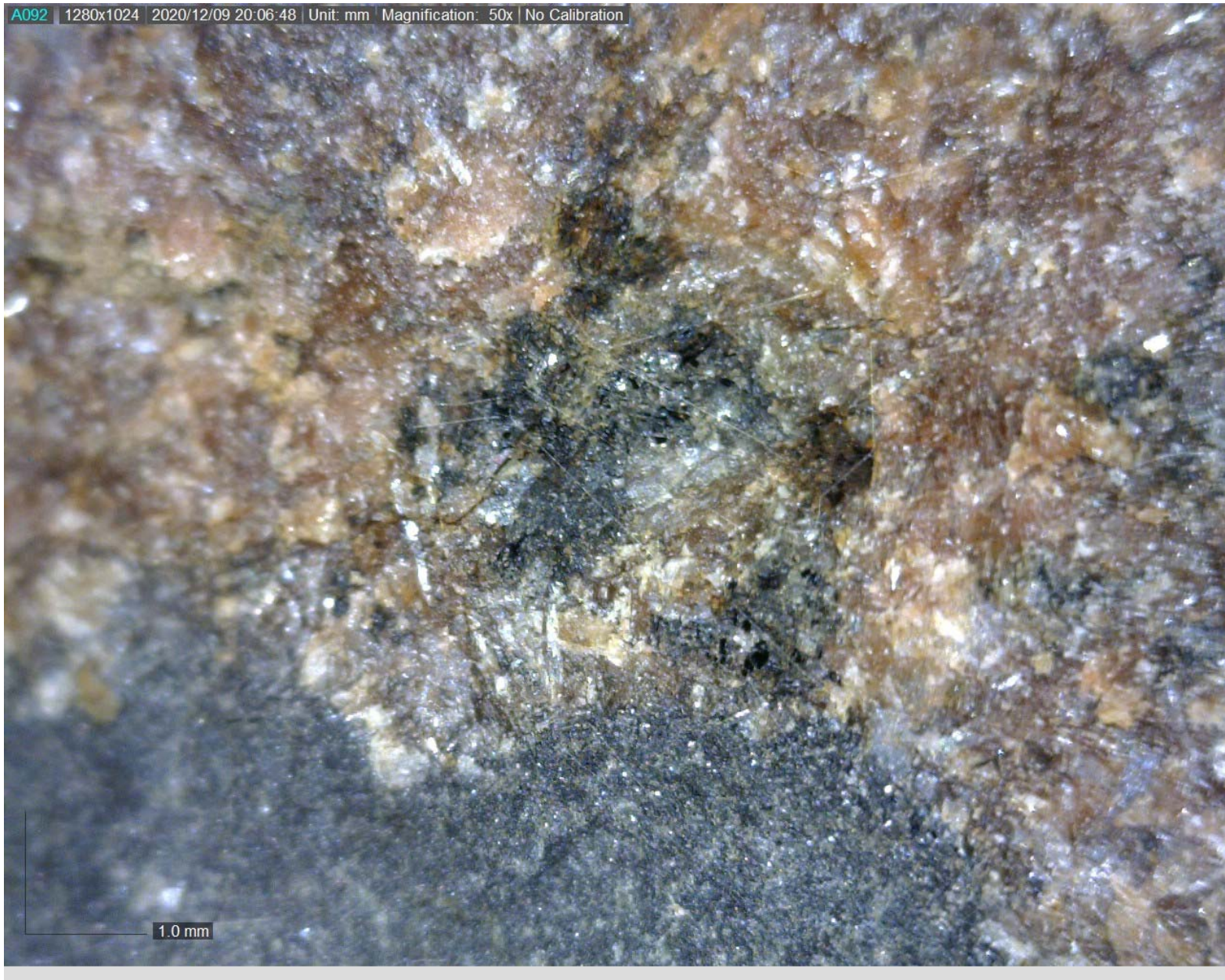
NO 23: Sample 790903 (1)

A096 1280x1024 2020/12/09 20:09:31 Unit: mm Magnification: 50x No Calibration



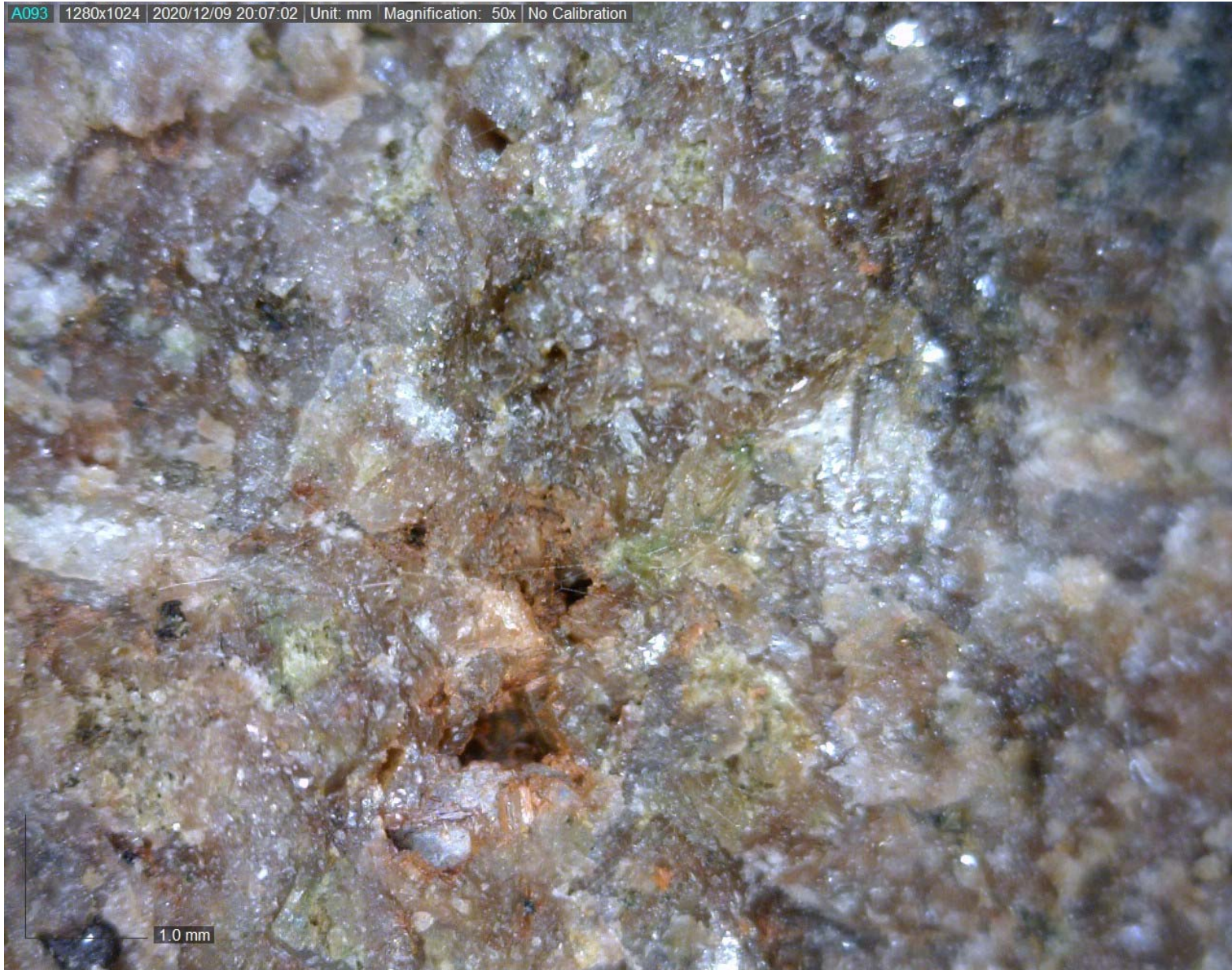
NO 24: Sample 790903 (2)

A092 | 1280x1024 | 2020/12/09 20:06:48 | Unit: mm | Magnification: 50x | No Calibration



NO 25: Sample 790904 (1)

A093 1280x1024 2020/12/09 20:07:02 Unit: mm Magnification: 50x No Calibration

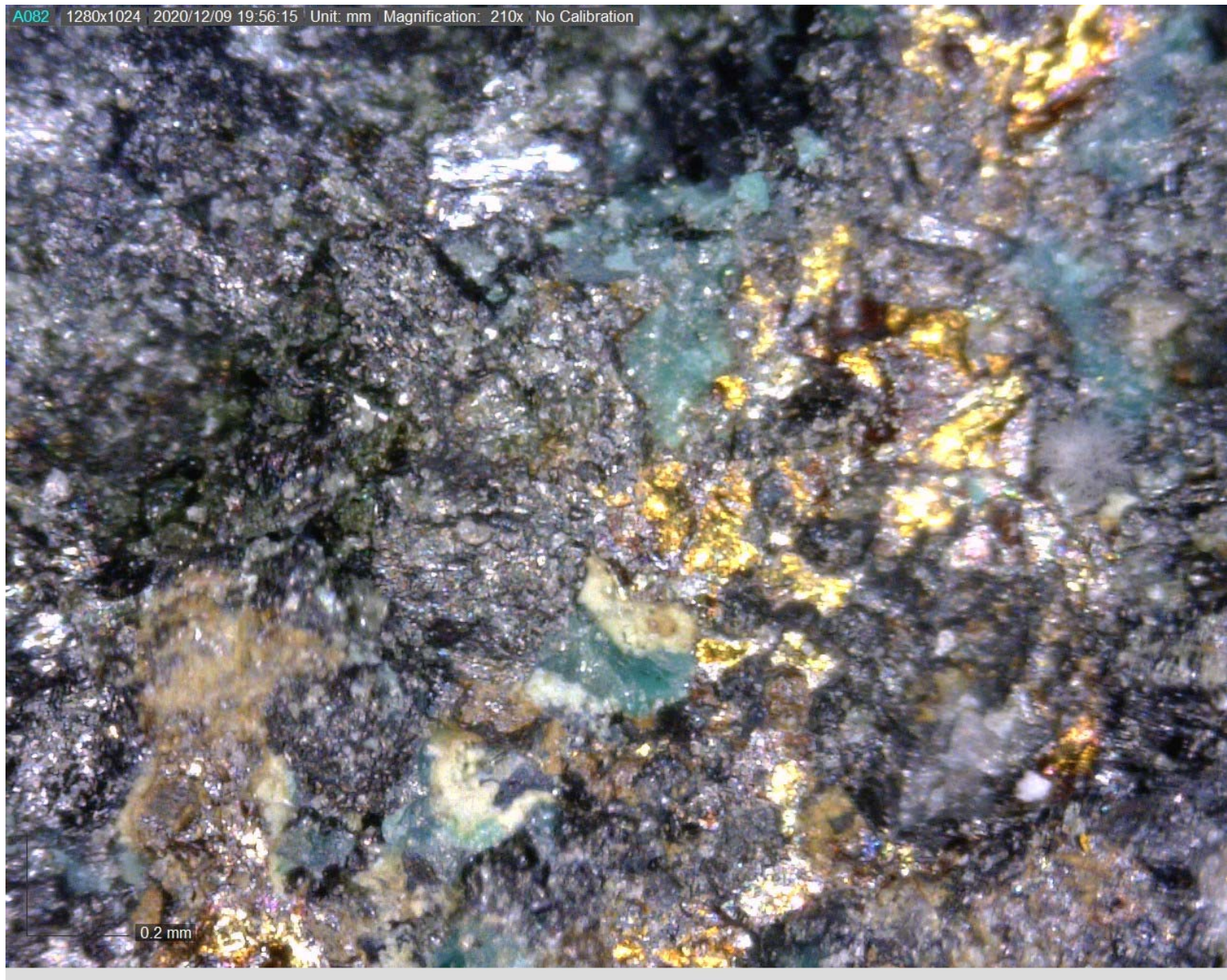


NO 26: Sample 790904 (2)



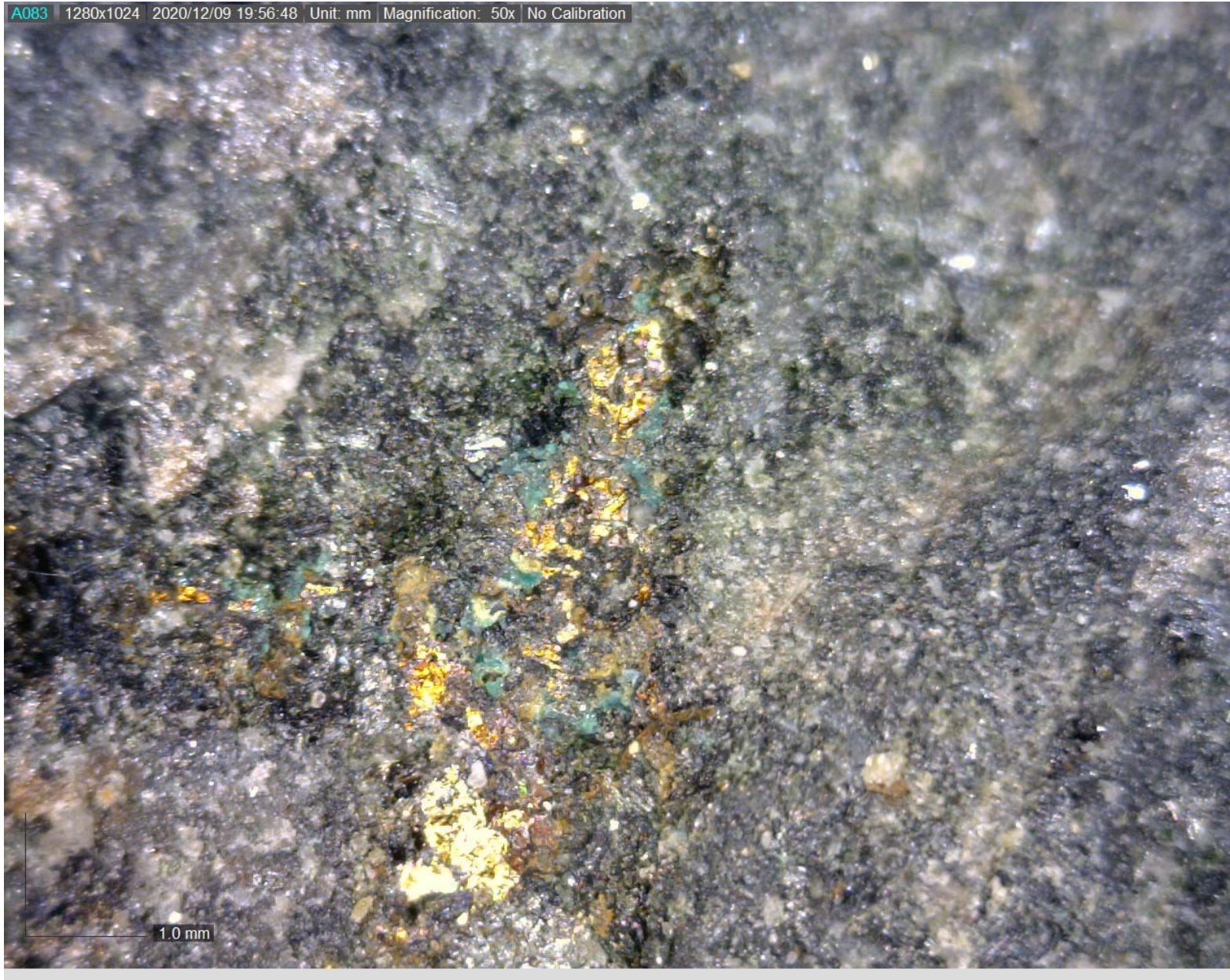
NO 27: Sample 790904 (3)

A082 1280x1024 2020/12/09 19:56:15 Unit: mm Magnification: 210x No Calibration



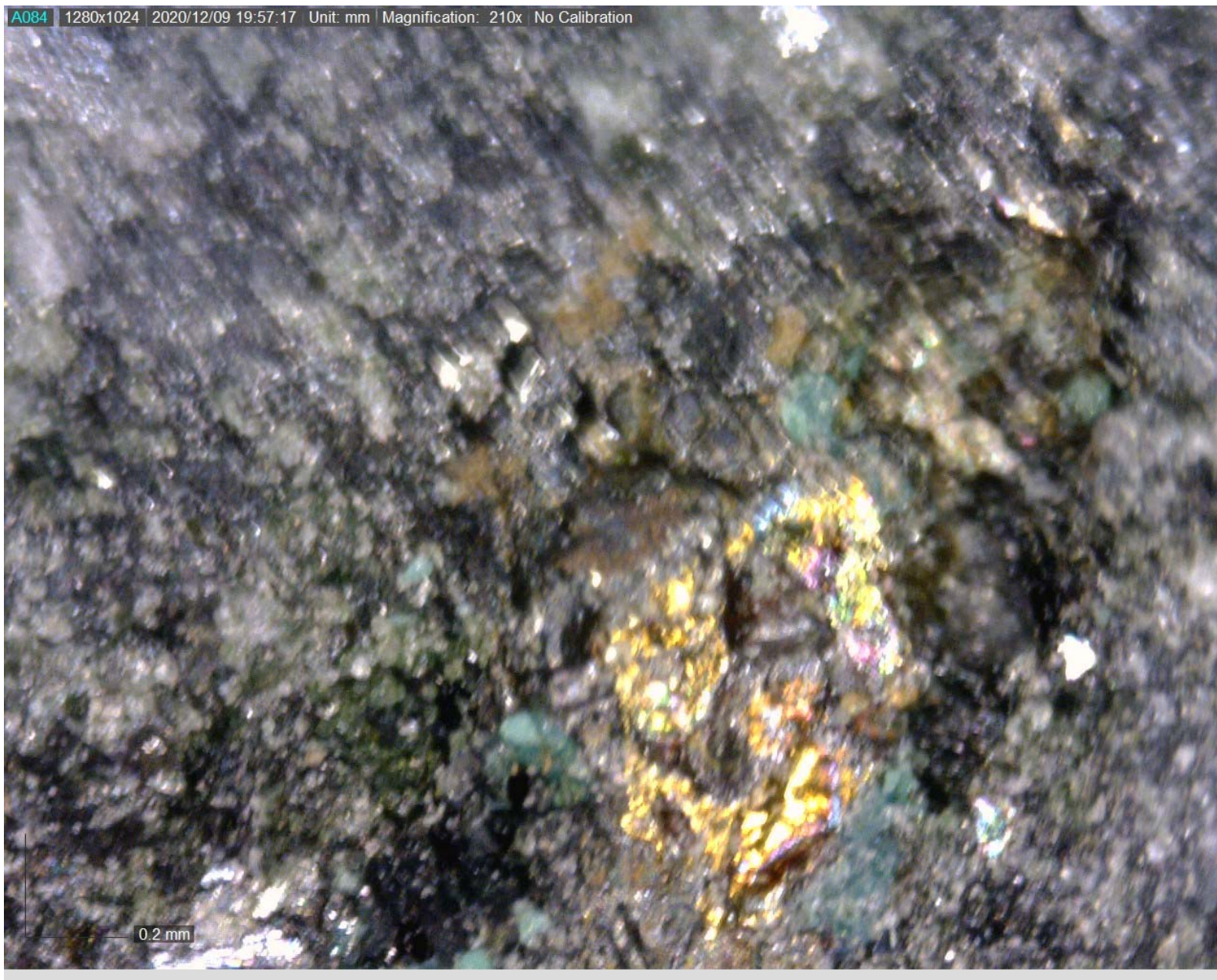
NO 28: Sample 790905 (1)

A083 | 1280x1024 | 2020/12/09 19:56:48 | Unit: mm | Magnification: 50x | No Calibration

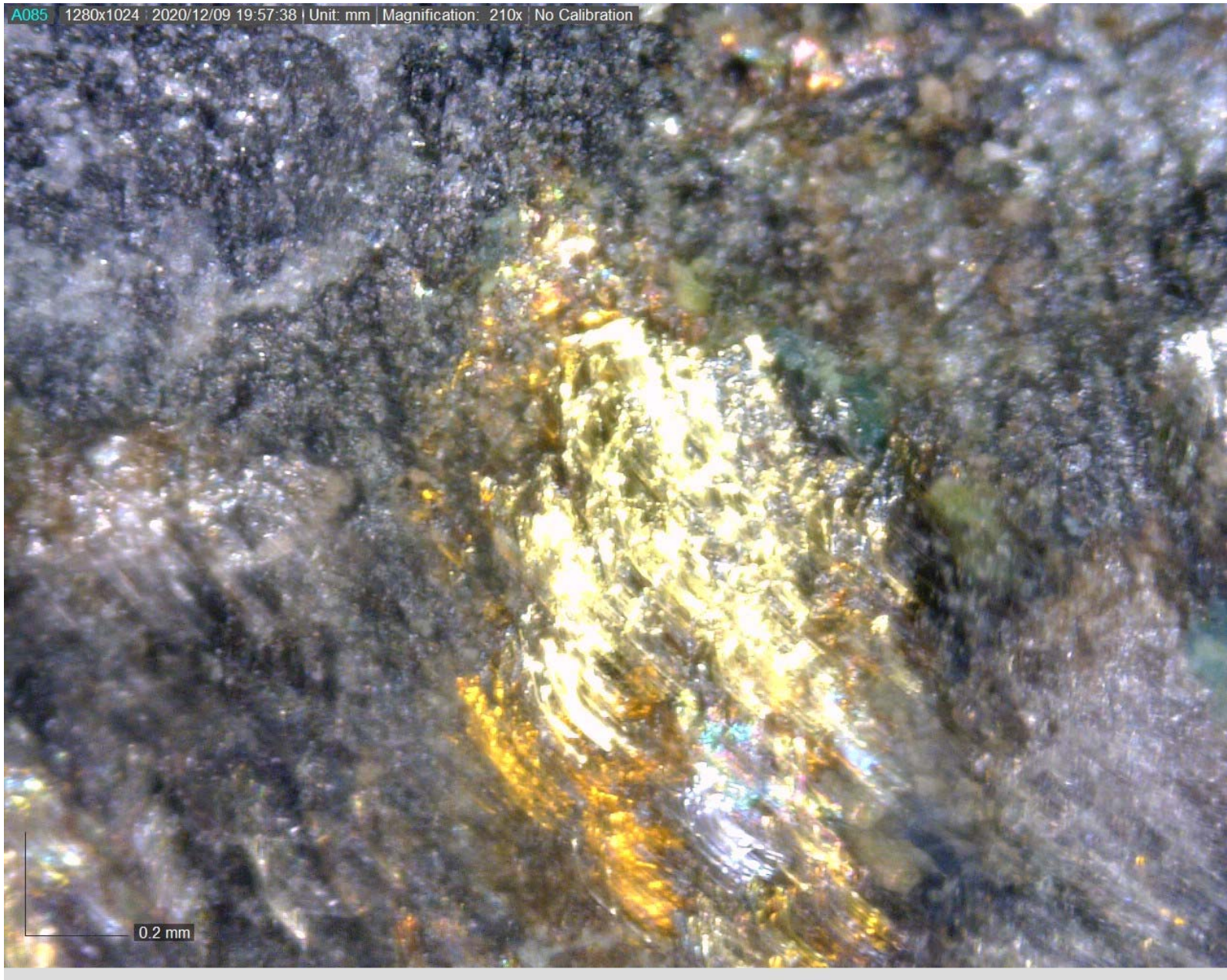


NO 29: Sample 790905 (2)

A084 1280x1024 2020/12/09 19:57:17 Unit: mm Magnification: 210x No Calibration

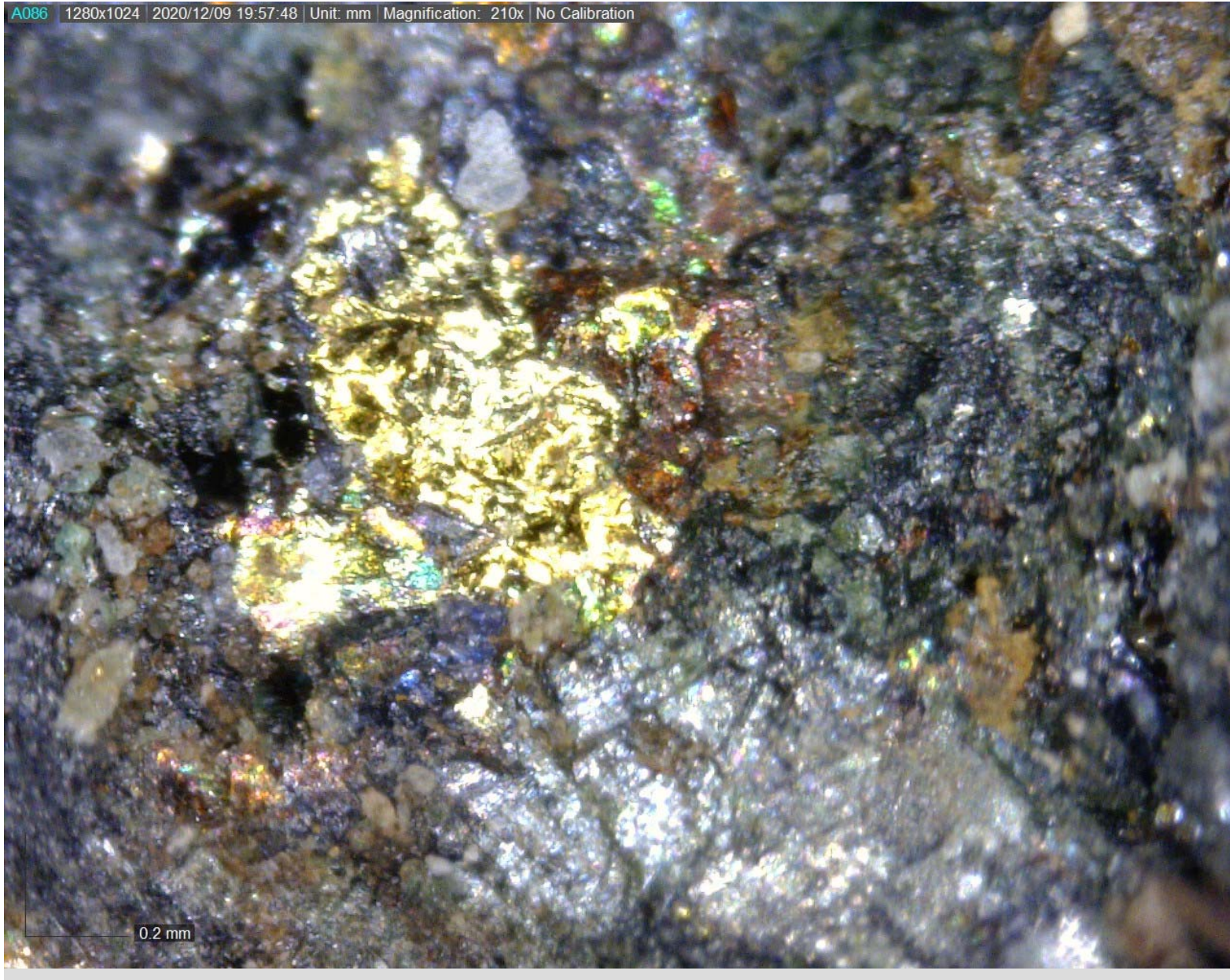


NO 30: 790905 (3)



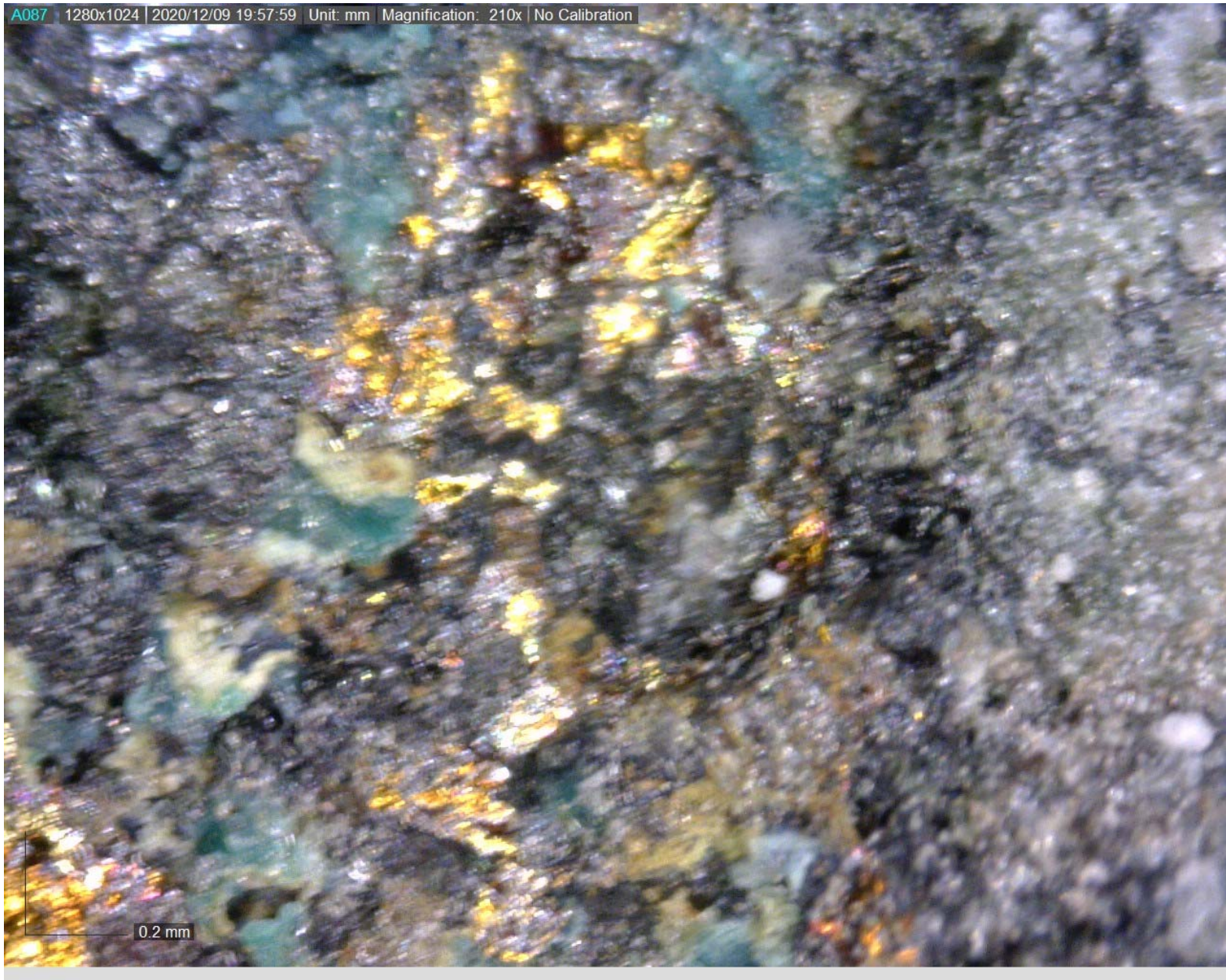
NO 31: Sample 790905 (4)

A086 | 1280x1024 | 2020/12/09 19:57:48 | Unit: mm | Magnification: 210x | No Calibration



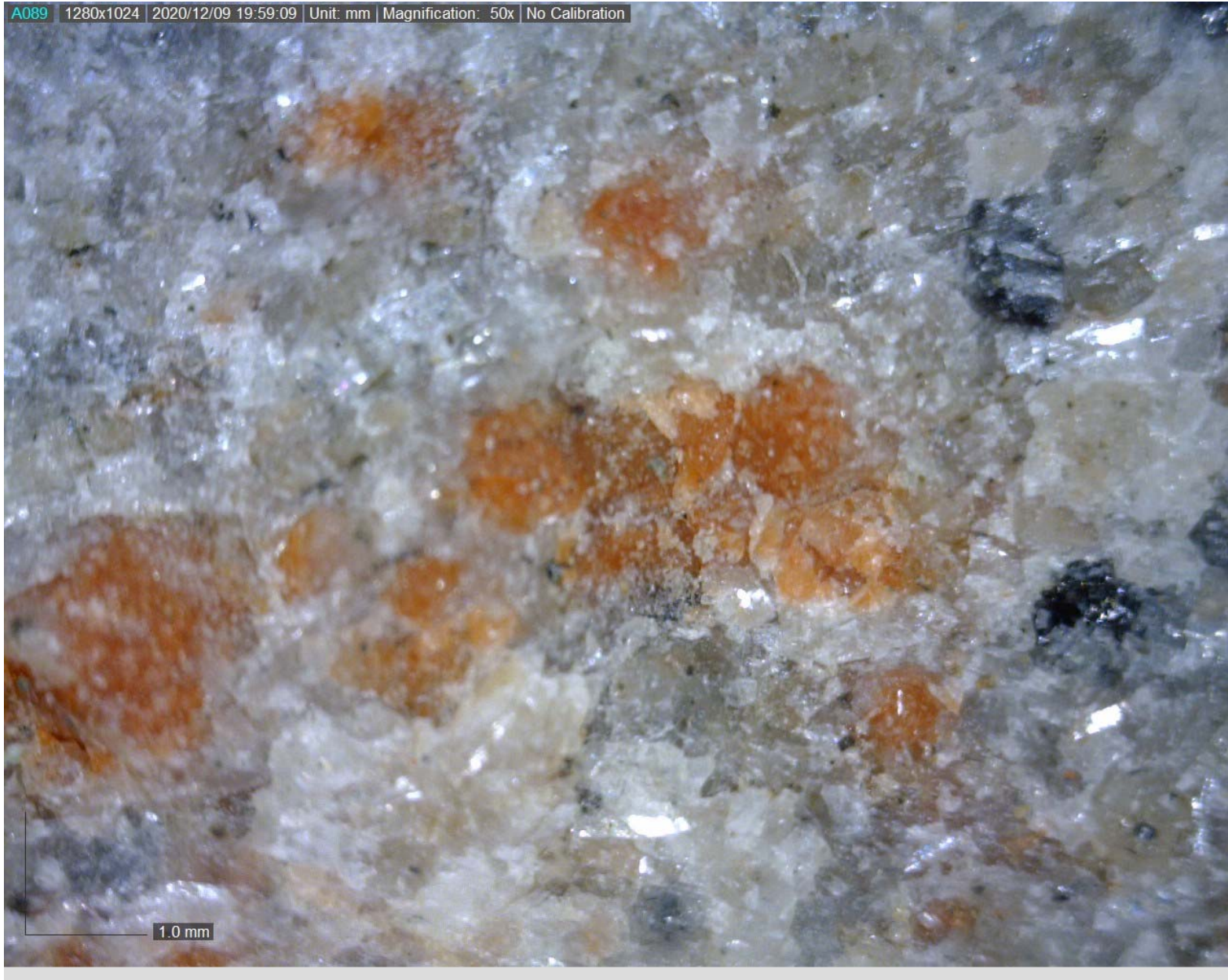
NO 32: Sample 790905 (5)

A087 | 1280x1024 | 2020/12/09 19:57:59 | Unit: mm | Magnification: 210x | No Calibration



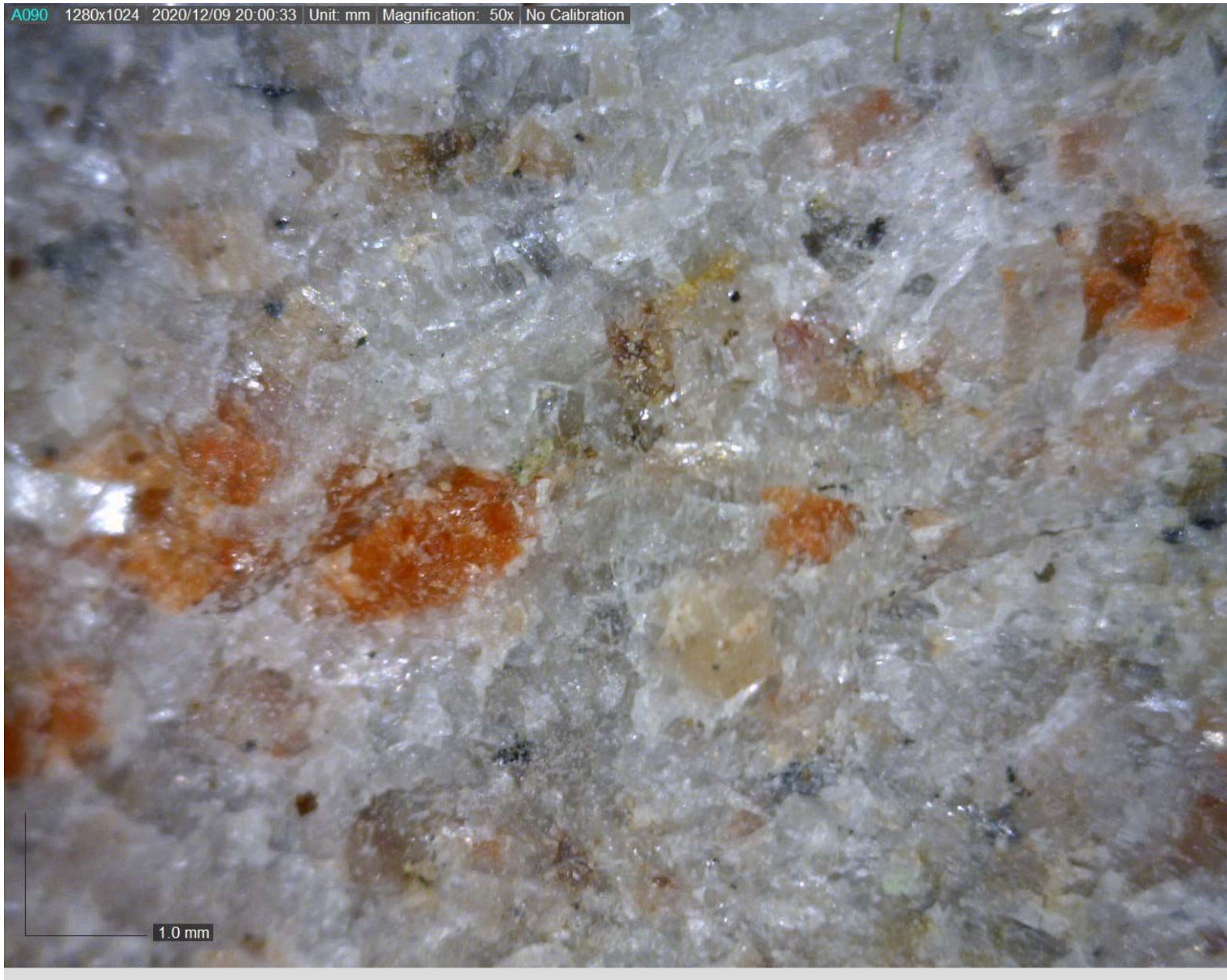
NO 33: Sample 790905 (6)

A089 | 1280x1024 | 2020/12/09 19:59:09 | Unit: mm | Magnification: 50x | No Calibration



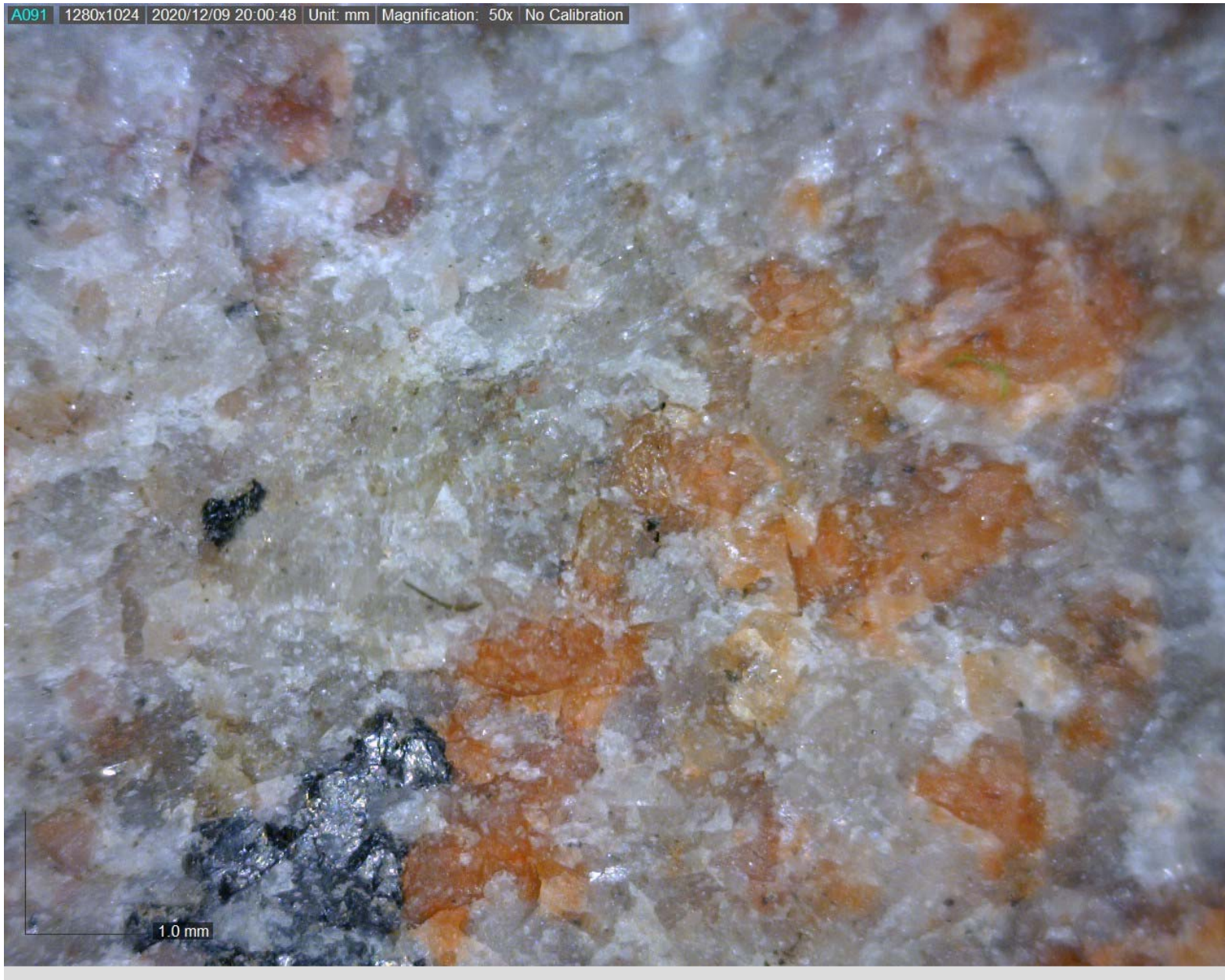
NO 34: Sample 790905A (1)

A090 1280x1024 2020/12/09 20:00:33 Unit: mm Magnification: 50x No Calibration



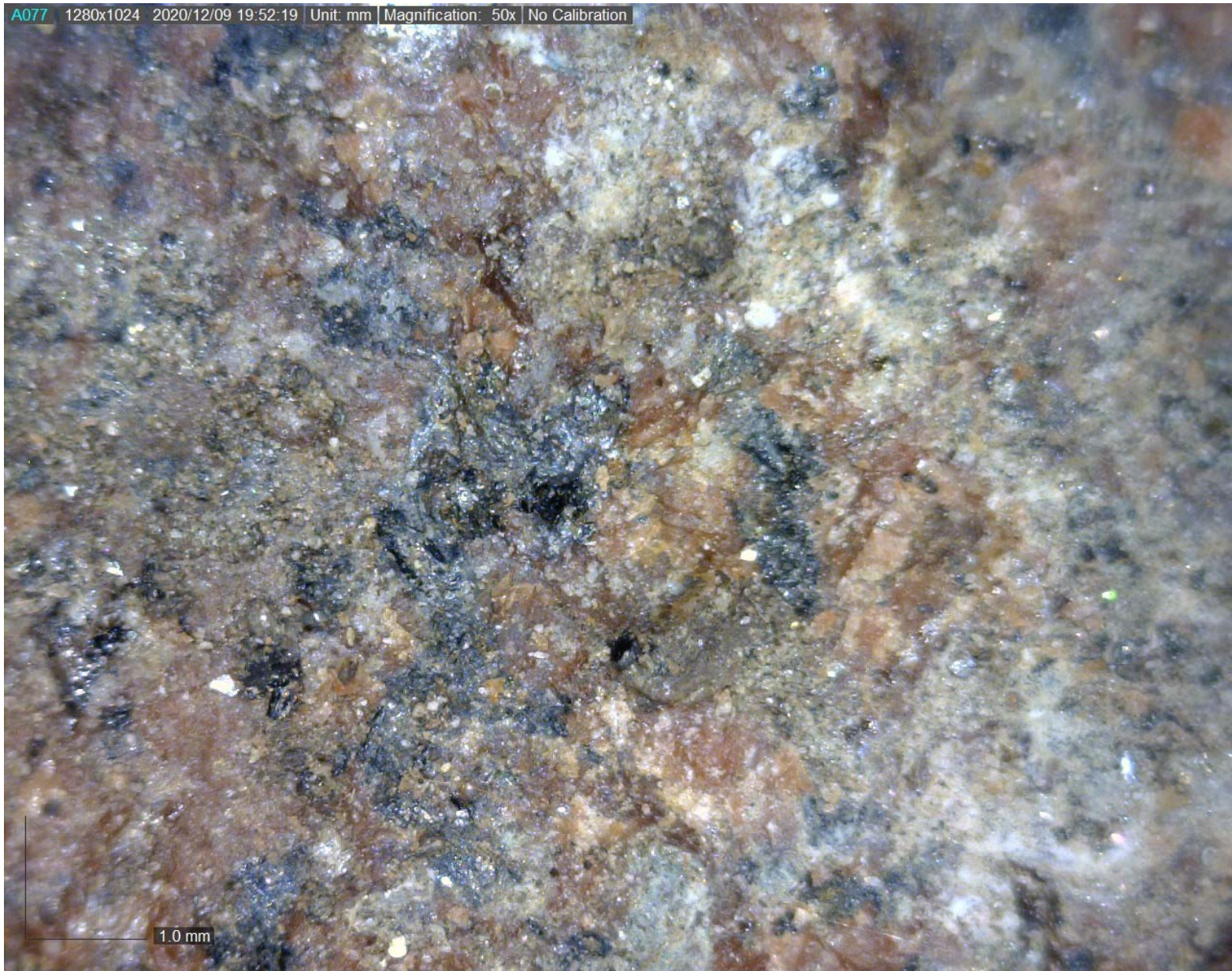
NO 35: Sample 790905A (2)

A091 1280x1024 2020/12/09 20:00:48 Unit: mm Magnification: 50x No Calibration



NO 36: Sample 790905A (3)

A077 1280x1024 2020/12/09 19:52:19 Unit: mm Magnification: 50x No Calibration



NO 37: Sample 790906 (1)

A078 1280x1024 2020/12/09 19:52:33 Unit: mm Magnification: 50x No Calibration

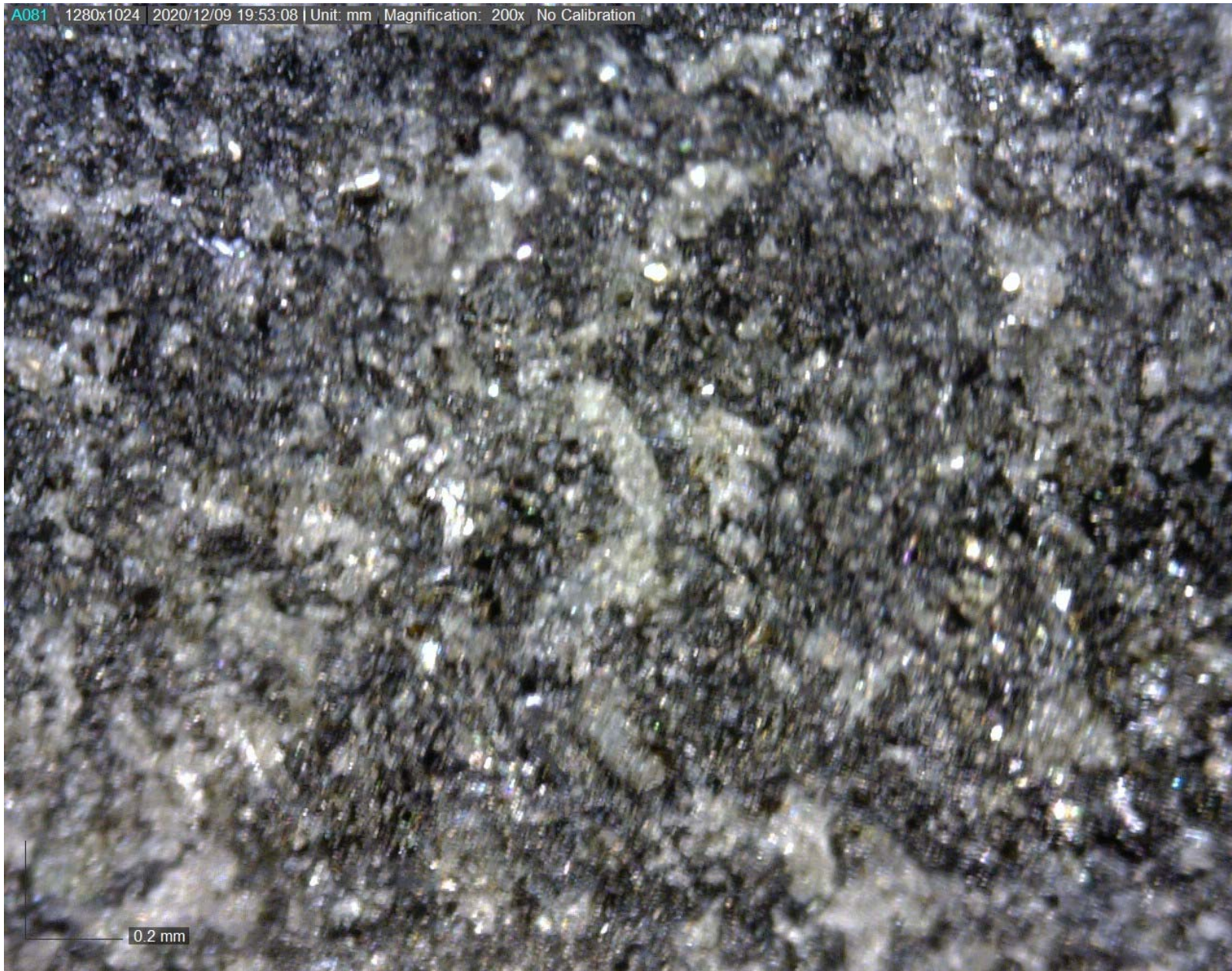


NO 38: Sample 790906 (2)



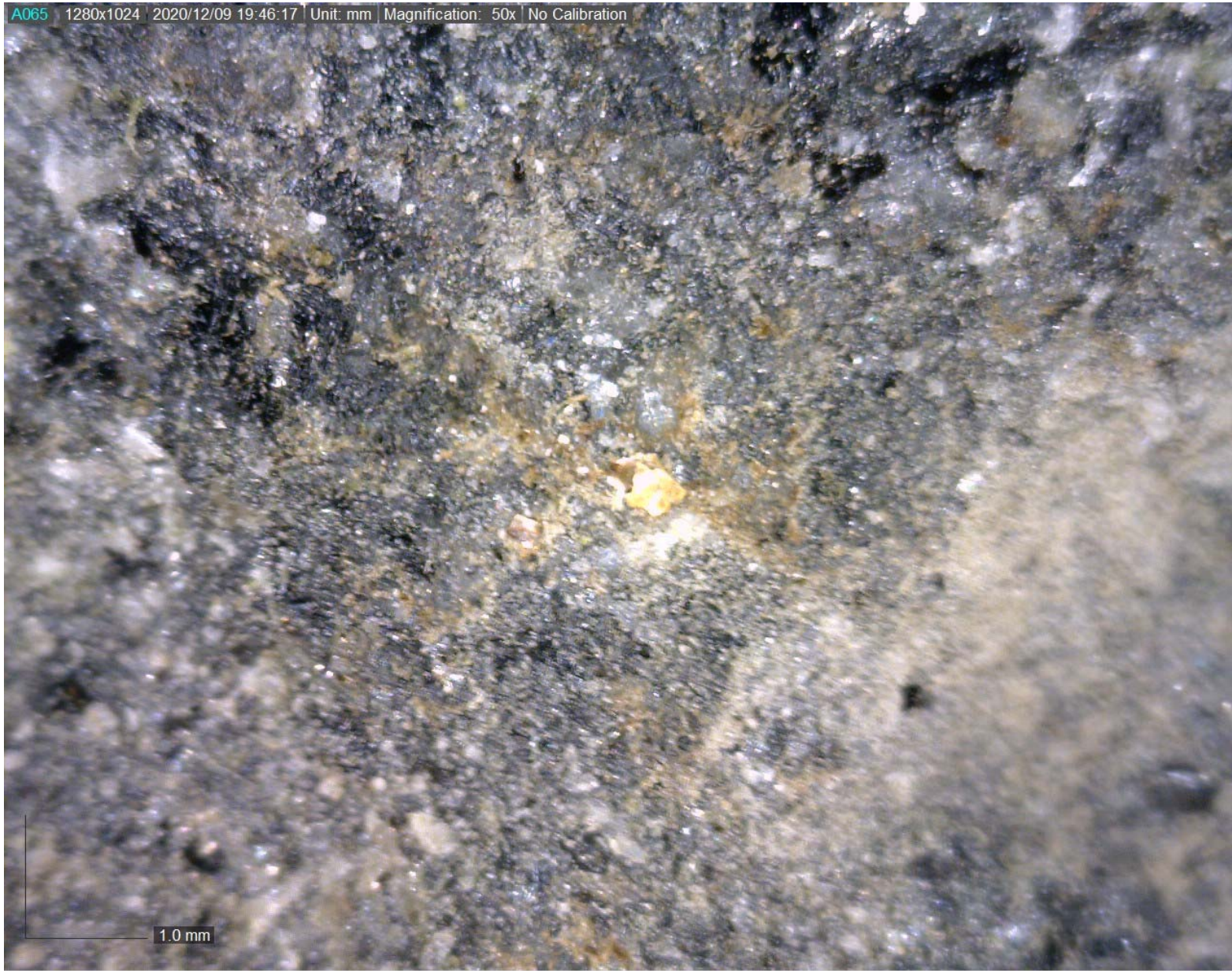
NO 39: Sample 790906 (3)

A081 1280x1024 2020/12/09 19:53:08 | Unit: mm Magnification: 200x No Calibration



NO 40: Sample 790906 (4)

A065 | 1280x1024 | 2020/12/09 19:46:17 | Unit: mm | Magnification: 50x | No Calibration



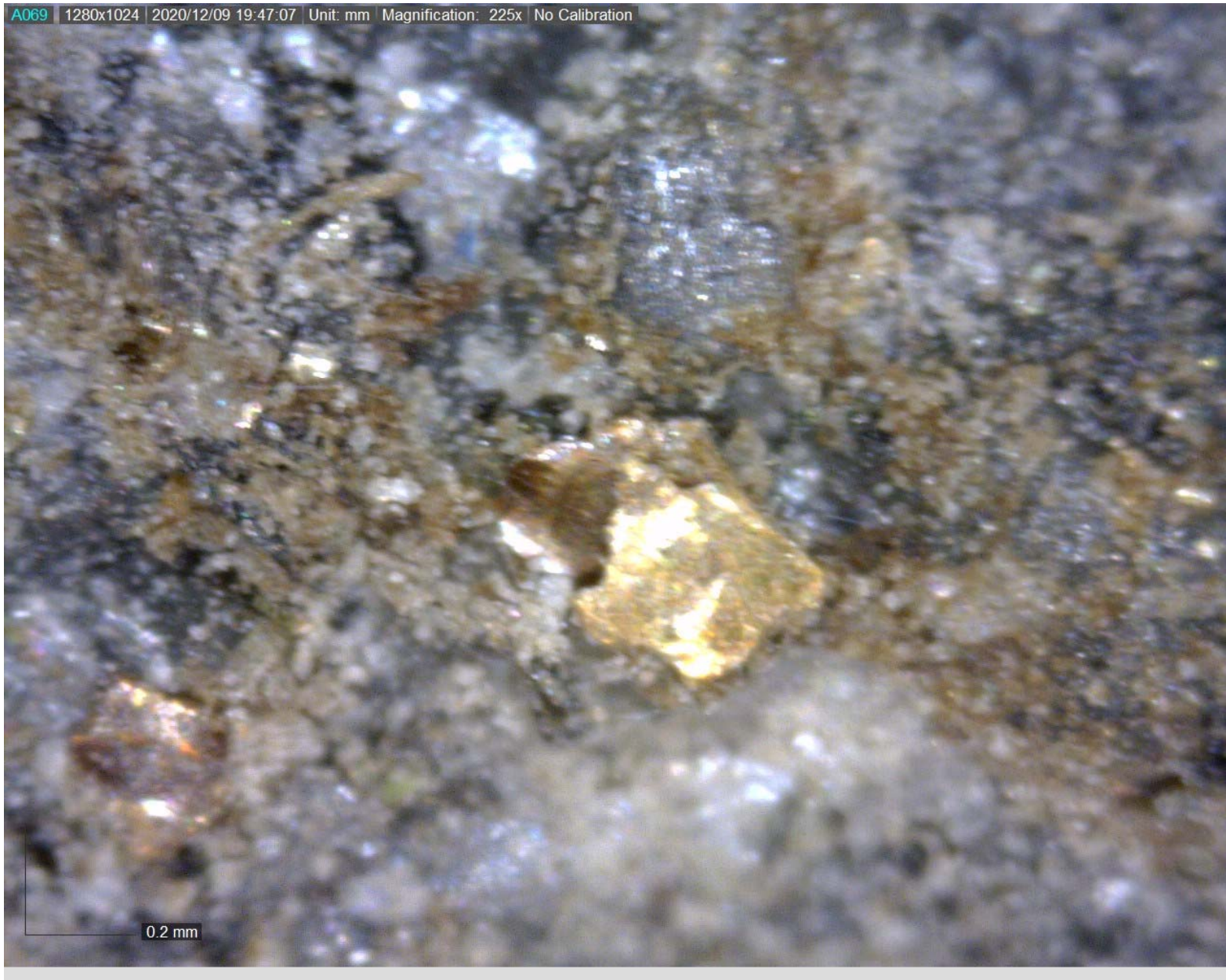
NO 41: Sample 790907(1)

A066 | 1280x1024 | 2020/12/09 19:46:19 | Unit: mm | Magnification: 50x | No Calibration



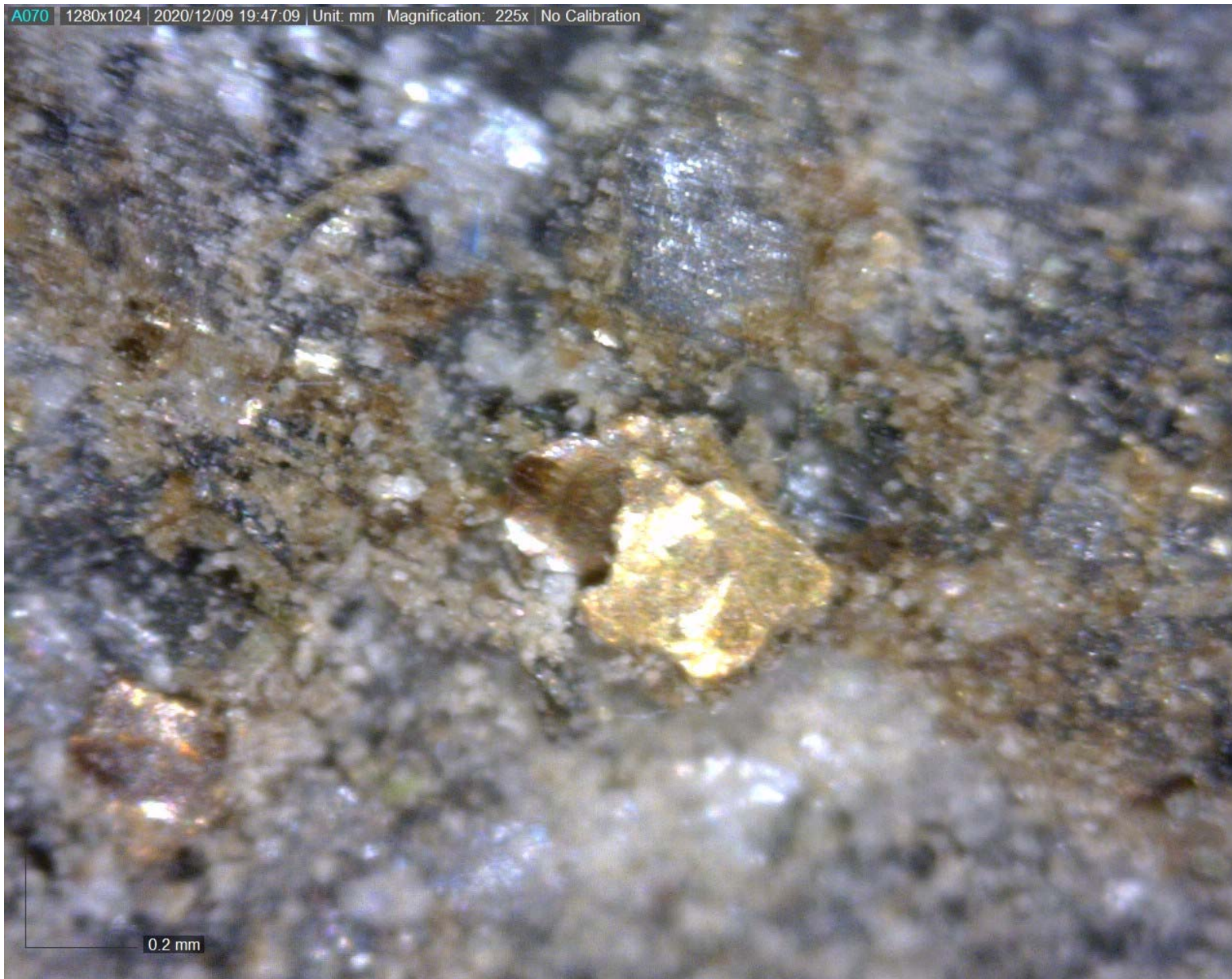
NO 42: Sample 790907 (2)

A069 | 1280x1024 | 2020/12/09 19:47:07 | Unit: mm | Magnification: 225x | No Calibration



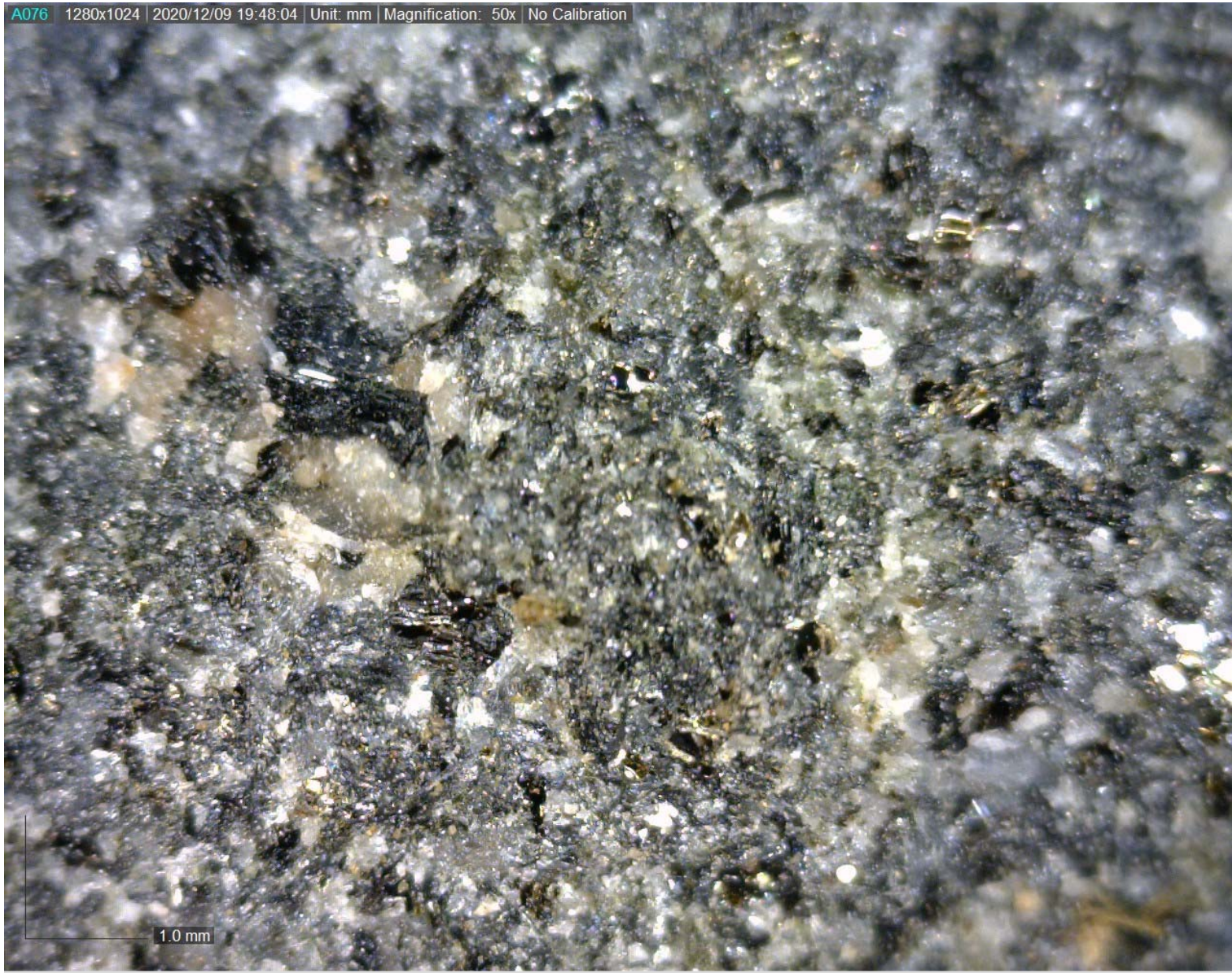
NO 43: Sample 790907 (3)

A070 1280x1024 2020/12/09 19:47:09 Unit: mm Magnification: 225x No Calibration



NO 44: Sample 790907 (4)

A076 1280x1024 2020/12/09 19:48:04 Unit: mm Magnification: 50x No Calibration



NO 45: Sample 790907 (5)

Appendix 7 - Invoices

Type	Date	Num	Name	Memo	Amount	Labor	PLI 2%	Reimb	15% Admin	Variance
ON - Marathon N. Property										
Marathon explor										
Bill	10-15-2020	604.20.00-1	Caracle Creek International Consulting In	Marathon PGE assessment & data review	2,040.00	40.00	2,000.00	40.00		-
Bill	10-31-2020	607.20.00-1	x Caracle Creek International Consulting In	Marathon sampling Oct 16-31	31,046.25	608.75	30,437.50	608.75		-
Bill	11-15-2020	607.20.00-2	x Caracle Creek International Consulting In	Marathon sampling Nov 1-15	19,992.00	392.00	19,600.00	392.00		-
Bill	11-15-2020	607.20.00-2	x Caracle Creek International Consulting In	Marathon sampling Nov 1-15 - travel & misc	14,855.46				13,059.77	1,958.97 - 163.28
Bill	11-15-2020	604.20.00-3	x Caracle Creek International Consulting In	Marathon claim review & GIS work Nov 1-15	1,083.75	21.25	1,062.50	21.25		-
Bill	12-15-2020	604.20.00-4	x Caracle Creek International Consulting In	Marathon claim review & GIS work Dec 1-15	191.25	3.75	187.50	3.75		-
BILL	01-31-21	604.20.20-5	Caracle Creek International Consulting In		573.75	11.25	562.50	11.25		
bill	12-14-2021		Salo geoscience	report and maps	561.00	11.00	550.00	11.00		
bill	12-21-2020	78926	Tsl Lab	11: assays for 22 samples (only 17 located on map) total \$1131.90	1,005.85	0.00				
Total Marathon explor					71,349.31		54,400.00	1,065.75	13,059.77	1,958.97 - 163.28

Labour		Amount	Labor	PLI 2%	Reimb	15% Admin	Variance				
51 LABOUR	FIELD HAND	750.00	1,100.00					1,850.00	37.00	1,887.00	
127.5	prospecting	19,500.00	9,000.00	11,250.00	6,750.00			46,500.00	930.00	47,430.00	
127.5	GIS MAPS REPORT	187.50	1,062.50	562.50	1,187.50	2,000.00	500.00	5,500.00	110.00	5,610.00	
56.1	GIS MAPS REPORT SGS	550						550.00	11.00	561.00	
							variance	54,400.00	1,088.00	55,488.00	
	Food	443.81	354.69	798.50	119.78	918.28	9.18	909.09			
	accommodations	4243.19		4,243.19	636.48	4,879.67	53.05	4,826.62			
	supplies	555.28		555.28	83.29	638.57	6.94	631.63			
	rentals	4884.96		4,884.96	732.74	5,617.70	61.07	5,556.63			
	vehicle	2577.84		2,577.84	386.68	2,964.52	32.23	2,932.29			
	assays	874.65		874.65	131.20	1,005.85		1,005.85			
								16,024.58	162.48	15,862.11	
										71,350.11	14,270.02
									13,059.77	0.01	

samples

570235	14270	5	295.8824	14566
570237	14270	7	414.2353	14684
570240	14270			14270
570241	14270			14270
570242	14270			14270
570243	14270			14270
570248	14270			14270
570249	14270	2	118.3529	14388
570250	14270			14270
570257	14270			14270
570258	14270	1	59.17647	14329
570269	14270	2	118.3529	14388
171240		17		

59.17647

Type	Date	Num	Name	Memo	Amount	Labor	PLI 2%	Reimb	15% Admin	Variance
ON - Marathon N. Property										
Marathon explor										
Bill	10-15-2020	604.20.00-1	Caracle Creek International Consulting In	Marathon PGE assessment & data review	2,040.00	40.00	2,000.00	40.00		-
Bill	10-31-2020	607.20.00-1	x Caracle Creek International Consulting In	Marathon sampling Oct 16-31	31,046.25	608.75	30,437.50	608.75		-
Bill	11-15-2020	607.20.00-2	x Caracle Creek International Consulting In	Marathon sampling Nov 1-15	19,992.00	392.00	19,600.00	392.00		-
Bill	11-15-2020	607.20.00-2	x Caracle Creek International Consulting In	Marathon sampling Nov 1-15 - travel & misc	14,855.46				13,059.77	1,958.97 - 163.28
Bill	11-15-2020	604.20.00-3	x Caracle Creek International Consulting In	Marathon claim review & GIS work Nov 1-15	1,083.75	21.25	1,062.50	21.25		-
Bill	12-15-2020	604.20.00-4	x Caracle Creek International Consulting In	Marathon claim review & GIS work Dec 1-15	191.25	3.75	187.50	3.75		-
BILL	01-31-21	604.20.20-5	Caracle Creek International Consulting In		573.75	11.25	562.50	11.25		
bill	12-14-2021		Salo geoscience	report and maps	561.00	11.00	550.00	11.00		
bill	12-21-2020	78926	Tsl Lab	11: assays for 22 samples (only 17 located on map) total \$1131.90	1,005.85	0.00				
Total Marathon explor					71,349.31		54,400.00	1,065.75	13,059.77	1,958.97 - 163.28

Labour		Amount	Labor	PLI 2%	Reimb	15% Admin	Variance			
51 LABOUR	FIELD HAND	750.00	1,100.00					1,850.00	37.00	1,887.00
127.5	prospecting	19,500.00	9,000.00	11,250.00	6,750.00			46,500.00	930.00	47,430.00
127.5	GIS MAPS REPORT	187.50	1,062.50	562.50	1,187.50	2,000.00	500.00	5,500.00	110.00	5,610.00
56.1	GIS MAPS REPORT SGS	550						550.00	11.00	561.00
								54,400.00	1,088.00	55,488.00
	Food	443.81	354.69	798.50	119.78	918.28	9.18	909.09		
	accommodations	4243.19		4,243.19	636.48	4,879.67	53.05	4,826.62		
	supplies	555.28		555.28	83.29	638.57	6.94	631.63		
	rentals	4884.96		4,884.96	732.74	5,617.70	61.07	5,556.63		
	vehicle	2577.84		2,577.84	386.68	2,964.52	32.23	2,932.29		
	assays	874.65		874.65	131.20	1,005.85		1,005.85		
						16,024.58	162.48	15,862.11		
									71,350.11	14,270.02
									13,059.77	0.01