NTS 42A01

Soil Geochemistry and Prospecting on Claim Numbers: 4246905, 4250913, 4251194; Otto Township; Larder Lake Mining Division

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Introduction

The Otto Property, previously one hundred percent owned (100 %) by Ontario 2214098 Ltd., was transferred to Shining Tree Resources Corp., effective August, 20, 2012. It is comprised of seven unpatented mining claims: 4246905, 4246906, 4250911, 4250912, 4250913, 4251194, and 4253832 located in Otto township. These claims total 51 claim units, and occupy: the E½ of the N½ of Lot 8 Concession 4; Lot 6 Concession 3 and the N½ of Lot 7 Concession 3; S¾ of Lot 6 Concession 5 and N½ Lot 7 Concession 5; Lot 7 and Lot 6, Concession 4; E ½ of the N½ and W ½ of the N¼ of Lot 8 Concession 5; and the S½ of Lot 9 and Lot 8 Concession 4, respectively. Table 1 shows a summary of Shinning Tree Resources Corp.'s land holdings in Otto Township, and Map 1 shows an overview of land holdings with respect to regional features and other administrative boundaries.

Claim Number	Location	Claim Units
4246905	E½ of the N½ of Lot 8 Concession 4	2
4246906	Lot 6 Concession 3 and the N½ of Lot 7 Concession 3	12
4250911	S¾ of Lot 6 Concession 5 and N½ Lot 7 Concession 5	6
4250912	N½ Lot 7, Concession 5	4
4250913	Lot 7 and Lot 6, Concession 4	16
4251194	E ½ of the N½ and W ½ of the N¼ of Lot 8 Concession 5	3
4253832	the S½ of Lot 9 and Lot 8 Concession 4	8

Table 1. A summary of Shinning Tree Resources Corporation's land holdings.

A previously conducted magnetic survey identified a linear magnetic trend extending through the gridded area. Soil sampling in conjunction with prospecting was conducted in order to determine: i) if local soil geochemistry indicates anomalous gold, silver, or base metal concentrations in this area, and; ii) to determine the lithogenic source of the elevated magnetic field in this area.

Prospecting in the gridded area showed that elevated magnetic field levels were associated with magnetite mineralization in the megacryst syenite that Berger (2006) states was common of the rock formation. In conjunction with elevated magnetite mineralization, anhedral amphibole mineralization appeared to be associated with trace amounts of gold mineralization in the range of 1-13 ppb, with minor copper, zinc, and nickel amounts ranging from 18-90 ppm.

Soil geochemistry showed slightly elevated gold values when compared with the prospecting results, although they are a similar order to magnitude. Anomalous gold values seemed to show a weak correlation with higher iron values, and palladium anomalies were associated with elevated iron and base metal concentrations.

Preliminary investigation into the northern claim units showed disseminated to massive sulphide units in the volcanics and clastic and chemical sedimentary units identified by Berger (2004). However, none of the samples assayed resulted in significant gold mineralization. Sample assays ranged from 0-17 ppb gold with elevated copper values ranging from 18-255 ppm. The sulphide facies appeared to be iron sulphides resulting in elevated iron assays of some samples. It is suggested that further exploration be accompanied with VLF and magnetic surveys to identify conductors associated with the disseminated and massive sulphides to direct future exploration within the northern claim block.

Soil geochemistry showed anomalous values which should be investigated with surface trenching and prospecting. The local source of these anomalous values may give indications of the source of trace gold, palladium, and base metal values in the Otto stock. This could produce information allowing for a more informed approach to further exploration of Otto stock rocks by modeling the method of emplacement of trace gold and palladium at surface. It is also suggested that the soil geochemistry and prospecting be expanded to the northeast and down the magnetic trend within the survey area. It appears that anomalous values may continue in these directions.

Location and Access

The property is located approximately 3 kilometers South of Swastika, Ontario and 8 km Southwest of Kirkland Lake. Please see Map 2 for a location map relative to provincial scale features.

Hannah road intersects the Northern claim of the property in claim 4251194, accessible via Highway 66 southwest of Swastika and Otto Road 1. Access to the grid is given by a snowmobile/ ATV trail. Sporadic and partially overgrown logging roads are present throughout the gridded area.

Summary of Soil Geochemistry Sampling and Prospecting Program

A soil geochemistry plan was used to profile the west-northwest trending magnetic anomaly observed in previous geological work. Sampling occurred at 100 meter spaced lines at approximately 25 meter intervals over the magnetic anomaly. Map 3 shows the location of stations were samples were taken, and is complimented by an overlay of total magnetic field intensity in a work report previously submitted by 2214098 Ontario Ltd. Samples were taken with a Dutch Auger from the B layer of the soil horizon, to a typical depth ranging from 15-35 cm. Samples were described on the basis of sample depth, soil composition, colour, moisture content, local tree coverage, and local slope and topographic features. Navigation to selected stations occurred with a Garmin (look up GPS) or equivalent, with approximately 4 to 5 meter accuracy. These observations are presented in Appendix A.

Sample assays and analysis were completed by AGAT Laboratories in Mississauga, Ontario. Metals analysis was completed by the ICP-OES method following aqua-regia digest. Gold, platinum, and palladium analysis utilized the fire assay method to ensure lower limits of detection in analysis. Contact and location information for AGAT Laboratories can be found in Appendix F at the beginning of the sequence of assay certificates.

Results for individual elements were analyzed spatially, using the Kirgling method to interpolate between samples. Samples with elemental values lower than the limit of detection were assigned a value of zero. Anomaly and background levels for each element were determined with basic descriptive statistics, using two standard deviations from the mean as a threshold value for the upper limit. However, histogram analysis showed that the sample for each element was not normally distributed, and samples took place over a relatively small spatial extent which may cause this arbitrary evaluation of a threshold limit inaccurate, or underestimated in comparison to the mean of the sample.

A prospecting program aimed at complimenting the geochemical sampling to determine surficial features that could result in elevated magnetic field levels; and, if the elevated magnetic field was

indicative of anomalous gold or base metal mineralization. Sampling occurred at selected outcrops encountered during collection of soil samples. One day was budgeted to allow for preliminary exploration of the northern claim units. Traverses looked at crossing lithogenic boundaries between volcanic units where regional magnetic highs were observed (Map 82 050 and 82 051). Map 4a shows locations of samples taken over the magnetic anomalies (gridded area), and Map 4b shows the location of samples taken from the northern claim units. They are complimented with an overlay of the Berger (2004) geological map, P.3534, produced for the Ontario Geological survey and digital elevation data (CDEM) provided by geobase and filtered by averaging local nodes to provide more smoothness to the contours provided by the data set. To compliment these maps, Map 4 shows the geological setting of the claim group to the Otto Township geology. A summary of man-hours spent on each project can be found in appendix E.

Discussion of Soil Geochemistry Results

Elemental concentrations of gold, palladium, copper, zinc, nickel, and iron were analyzed with basic descriptive statistics in order to determine background and threshold concentrations for individual elements. An arbitrary value of the mean plus two standard deviations of the sample was used as a threshold limit. However, histograms, showed that the samples were not normally distributed, meaning that this threshold limit may be underestimated to the regional mean due to the small spatial extent of the sample area. Table 2 shows basic statistics for the selected elements, and the arbitrary anomaly values derived from them. Histograms of the elements presented are available in Appendix C.

	Mean	Standard Deviation	Median	First Quartile	Third Quartile	Threshold Value
Au (ppb)	7.0	9.3	3.0	2.0	11.0	25.5
Pd (ppb)	2.1	1.5	2.0	1.0	2.0	5.0
Cu (ppm)	20.5	16.0	13.6	10.5	26.4	52.0
Zn (ppm)	40.0	22.9	35.1	20.4	56.2	84.0
Ni (ppm)	24.4	18.5	20.4	13.4	31.4	60.0
Fe (%)	1.94	0.83	1.90	1.25	2.48	2.60

Table 2. Basic statistics of selected elements and arbitrary threshold limits for anomalous values.

A visual representation of each stations elements with respect to the threshold limits presented in Table 2 are shown in Figures 1, 2, and 3. Figure 1 shows gold and palladium results, Figure 2 shows copper, nickel and zinc, and Figure 3 shows iron.

Spatial analysis of the results was completed by contouring the elemental values. Individual contour maps for the selected elements are presented in maps 5,6,7,8,9, and 10 for gold, palladium, copper, zinc, nickel, and iron respectively. The Kirgling method was used for contouring, and the contours were filtered using a 1 pass convolution filter to try to flatten and show relationships between individual stations. Map 11a shows an anomaly map where only areas with contouring greater than the threshold value are shown for all the elements Au, Pd, Cu, Zn, Ni, and Fe. Map 11b shows the same map with an overlay of station locations with annotated elemental values at each station.

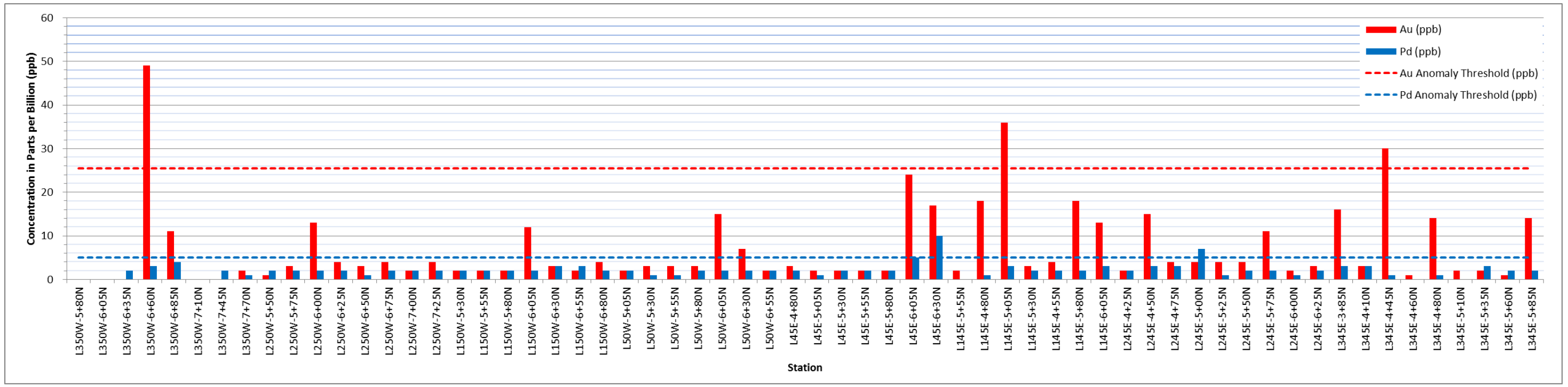


Figure 1. Comparison of station elemental data to threshold limits.

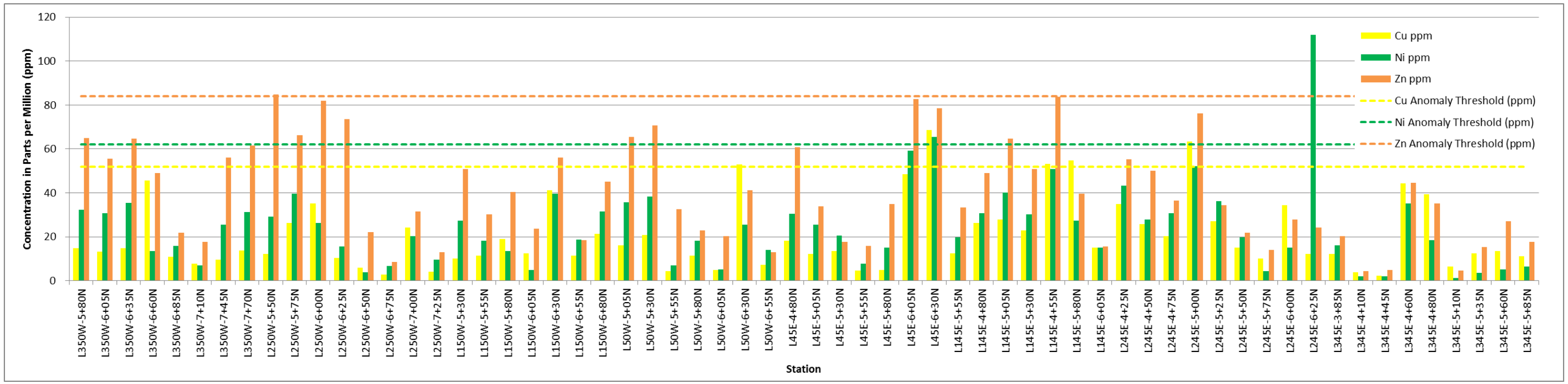


Figure 2. Comparison of station elemental data to threshold limits for copper, zinc, and nickel.

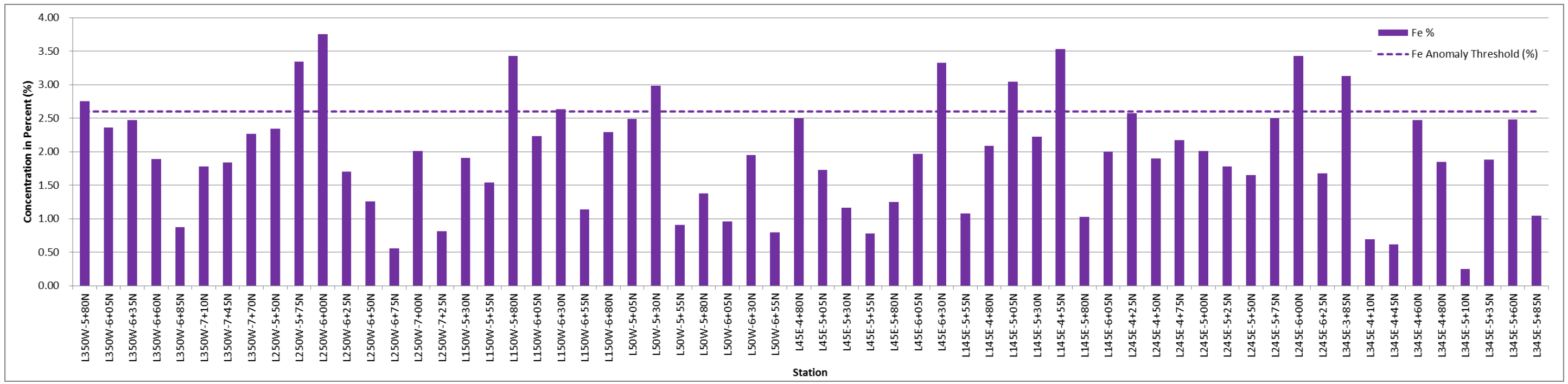


Figure 3. Comparison of station elemental data to threshold limits for iron.

Analysis of anomalies of each element show that gold geochemical anomalies are not related to other elements, with the exception of anomaly D. It may also appear the anomalies are oriented in a linear orientation associated with the same direction as the magnetic anomaly that was observed. Palladium anomalies appear to follow a similar trend, seen in anomalies B and F, which flank the gold anomalies to the north. Anomaly B shows that the palladium anomaly is associated with nickel, iron, and copper. Anomaly F is associated with elevated copper levels.

It appears that iron anomalies, or elevated iron levels are associated with both palladium, gold and base metal mineralization. Base metals show to be loosely correlated with palladium, but not gold.

Discussion of Prospecting Results: Gridded Area

Prospecting in the gridded area identified a possible cause for the elevated magnetic field observed in the previous geological survey. Magnetite mineralization, observed as 1-2 mm grains in some outcrops was associated with mafic mineralization in syenite with both potassium feldspar megacrysts and pegmatites, as well as amphibole with accessory pyroxene. Samples showed variation in mafic mineralization throughout the investigation area, with periodic observation of visible magnetite grains. All samples were magnetic, but the magnitude of magnetic deflection with a pen magnet was observed to differ between samples. These observations agree with those presented by Berger (2006).

Mineralization in the rocks was most commonly syenite with potassium feldspar megacrysts ranging from 2-6 cm in size, with lesser amounts of amphibole and biotite. Rocks could contain between 10-35 % amphibole with accessory pyroxene. Amphibole were commonly highly weathered and appeared to be light to pale green with a sub metallic lustre. Highly weathered species appeared to be light greenish brown. Grains were commonly anhedral and were poorly defined within the rock. Biotite mineralization was commonly 5% or less in majority of the samples.

Accessory minerals were pyroxenes, apatite, and garnet. Pyroxenes appeared as darker green to black, and displayed 90 cleavage. Apatite grains were 0.5 -1 cm in length, euhedral, and displayed an elongated hexagonal shape. Garnet grains were 2-4 mm in size, euhedral, and dark purple. Both apatite and garnet were rare in the samples collected, only present in samples OT-005 and OT-006.

Rare aphanitic rocks with weathered, anhedral potassium feldspar phenocrysts (3-6 mm) were seen in contact with the megacryst syenite. These may be correlated to aplite dykes described by Berger (2006). A contact between the megacryst syenite and the finer grained rocks is shown in picture 1.



Picture 1. An aphanitic phase with anhedral KSPAR phenocrysts in contact with the megacryst syenite.

In one outcrop- sample OT-003- an aphanitic greenish black vein with 1.5 meter persistence and up to 3 cm in width. In other areas, minor veins were seen in a cross cutting fashion, with minimal persistence. The source of these veins is unknown. However, they did not show exceptional assay results. This may



Picture 2. An aphanitic green to black formation crosscut by the megacryst syenite.

be suggestive of partially melted country rock. Picture 2 shows a picture of the largest vein on the outcrop.

An outcrop was observed that has small light green nodules 2-5 cm in size. These were inferred to be xenoliths formed from country rocks, although their source is not known to the author. They were sampled as OT-010. However, they did not yield extraordinary results. Picture 3 shows the appearance of the nodule.



Picture 3. Megacryst syenite with weathered light green nodules.

Trace gold and palladium were observed in all samples, ranging from 1-13 ppb, and 1-5 ppb, respectively. This was associated with low levels of copper, zinc, nickel and lead. Table 2 shows a summary of selected elements. Appendix B gives descriptions of rocks samples, and Appendix F gives assay certificates with assay values for all elements analyzed.

	Au (ppb)	Pd (ppb)	Cu (ppm)	Ni (ppm)	Pb (ppm)	Zn (ppm)
0T-001	2	2	43	8	11	34
0T-002	2	2	45	8	9	48
0T-003	3	2	36	8	17	59
0T-003B	2	1	51	10	15	91
0T-004	1	1	17	4	21	14
0T-005	12	4	23	5	9	33
0T-006	3	2	43	9	8	53
0T-007	3	3	35	7	8	48
0T-008	2	3	11	18	6	25
0T-010	2	1	22	5	12	17

0T-011	6	5	13	18	11	25
0T-012	13	3	76	9	12	79
0T-013	1	4	12	31	6	22
0T-014	1	2	18	3	9	13

Table 3. A summary of selected assay results, samples OT-001 to OT-014.

Discussion of Prospecting Results: Northern Claim Units

The northern claim unit was overlain by metavolcanics and metasedimentary rocks. The area showed signs of low grade metamorphism of greenschist metamorphic rank, indicated by the high chlorite content of some metavolcanics (OT-N-001) and micaceous schistosities in metasedimentary units (OT-N-004).

Of interest was the high pyrite and sulphide component of a rock formation found throughout the area, which was sampled at two unique locations. These were found to carry trace gold, with the most significant values occurring near a quartz vein cross cutting the sulphide layers and the wackestone/ siltstone (17 ppb) that displayed some primary bedding features (OT-N-008B) .This is featured in picture 4. The rock associated with these sulphide layers appears to be a felsic metavolcanic. However, the thick sulphide layers appear to fit the description of the graphitic and pyritic chert ironstone formation described by Berger (2000) that can be interbedded with the mafic volcanics within Eby and Otto townships. A description of the rocks sampled can be found in Appendix B.



Picture 4. This shows a quartz vein cross cutting the thick sulphide layer and associated felsic metavolcanic.

Table 4 shows selected elements assay values for the samples taken from the northern region, samples OT-N-001 to OT-N-008B.

	Au (ppb)	Pd (ppb)	Cu (ppm)	Fe (%)	Ni (ppm)	Zn (ppm)
OT-N-001	2	2	52.3	2.35	21.0	25.4
OT-N-002	0	0	33.2	7.04	0.6	5.5
OT-N-003	1	2	1.1	3.65	10.0	49.1
OT-N-004	3	4	14.2	2.93	30.1	35.4
OT-N-005	9	4	255.0	18.60	33.2	26.1
OT-N-006	1	3	167.0	2.47	48.4	23.1
OT-N-007	2	14	25.3	2.55	12.1	16.4
OT-N-008	1	2	13.3	1.57	4.7	16.6
OT-N-008-B	17	3	45.6	1.21	17.1	34.4

Table 4. This shows selected assay results for the northern region samples, samples OT-N-001 to OT-N-008B.

Conclusions and Recommendations

Prospecting in the gridded area appeared to be successful in determining surficial causes for elevated magnetic field levels elucidated by the previous magnetic survey completed in early 2012. Magnetite mineralization associated with megacryst syenite identified by Berger (2000) was supported by field observations over the investigative area. Assays show that this rock formation is associated with trace gold values, as well as anhedral amphibole with accessory pyroxene mineralization which may be due to partial melting of country rock within the Otto stock.

Soil geochemical anomalies show slightly elevated gold, palladium, and base metal mineralization in comparison to hard rock samples taken from the area. Surface trenching and power stripping may give a suggestion as to the source causing local leaching of these elements into the soil horizon. The results may be informative in future exploration, as it may suggest a model for the emplacement of trace gold, palladium, and base metals within the Otto stock from the host country rock or alternative phases within the stock that are not visualized at surface.

Further prospecting and geochemical surveys to the northeast and a further extension along trend may be warranted. It appears that average background levels increased to the east, and several anomalies occurred at the northeast boundary of the sampling area.

Prospecting in the north showed many favourable signs that it may have a potential for elevated gold, palladium, and copper levels. It is suggested that magnetic and VLF surveys be completed spanning geological contacts in the northern units, and the northeastern contact between the Otto stock and the metavolcanics in order to identify conductors related to sulphidization within rock units to better direct future exploration in this area of the property.

References

Berger, B.R. “Geological synthesis along highway 66 from Metachewan to Swastika”. Open reading file 6177. Ontario Geological Survey. 2006.

Map 2239, Ontario Geological Survey, Publication P3534, Precambrian Geology of Ebby and Otto Townships, 2004.

Maps 82 050 and 82 051, Ontario Geological Survey, Aeromagnetic Survey of Kirkland Lake Area 2001.

Map 82 039, Ontario Geological Survey, Aeromagnetic Survey of Kirkland Lake 2000.

Appendix A- Soil Characterizations

Below is a table giving observations of the soil samples. Modifiers indicate an approximate composition of 10-35 %, and the noun indicates the major soil constituent. For more accurate topography information, please refer to the data presented in Map 3, a smoothed digital elevation model modified from the Canadian Digital Elevation Data sourced from GeoBase.

Station	Soil Type	Colour	Sample Depth (cm)	A Layer Depth (cm)	Slope Direction	Approximate slope (°)	Moisture	Foliage	Soil Horizon
L350W 5+80N	Silt	light greyish brown	29	5	S	1.5	dry	poplars and alders	B
L350W 6+05N	Silt	light brownish grey	26	5	S	1	dry	alders some poplars	B
L350W 6+35N	Silty Clay	brownish light grey	30	4	S	1.5	dry	alders and poplars, some pine	B
L350W 6+60N	Sand	dark brown	23	4	S	2.5	dry	alder, birch, some poplar	B
L350W 6+85N	Sandy Silt	brown	39	10	SSE	1	dry	pine and some birch	B
L350W 7+10N	Silt	orangish brown	36	7	SE	3.5	dry	poplar, spruce, some balsam	B
L350W 7+45N	Silt	brownish grey	21	2	N	3	damp	poplars, some alders	B
L350W 7+70N	Silt	Brownish grey	18	1	NNE	1.5	damp	poplars, alders, some maples	B
L250W 5+50N	Silt	light gret	18	1	S	1	damp/dry	poplars and alders	C
L250W 5+75N	Clay	light grey	32	1	flat	0	damp	poplars and alders	C
L250W 6+00N	Silt	light brown	31	6	S	1.5	dry	poplars and alders	B
L250W 6+25N	silty sand	light greyish brown	25	4	S	4	dry	spruce, tamarack, pine	B

L250W 6+50N	Gravelly sand	grey	32	6	S	0.5	dry	Birch and Pine	C
L250W 6+75N	Silt	Orangey brown	28	5	flat	0	dry to damp	Tamarack, balsam	B
L250W 7+00N	Silt	Orangey brown	29	3	N	1	dry/slightly damp	Pine and Birch	B
L250W 7+25N	Silt	light grey to brown	22	3	NNE	1	dry to damp	Poplar, birch, alder	B
L150W 5+30N	Silt	brown	19	5	S	2	damp	Spruce, poplar, alder	B
L150W 5+55N	Clayey silt	light brown	28	7	S	3	dry	alders, poplars, balsam	B
L150W 5+80N	Sand with gravel	orangish brown	18	8	S	4	dry	spruce, alders, birch	B
L150W 6+05N	Gravelly sand	grey	22	2	S	3	dry	alders, balsam, pine	C
L150W 6+30N	silty sand	greyish brown	19	5	S	1	dry	poplars and alders	B
L150W 6+55N	Silt	grey	23	6	flat	0	damp	poplars, some alders	C
L150W 6+80N	silty clay	dark grey	31	5	flat	0	damp	poplars and alders	C
L50W 5+05N	Silty clay	greyish brown	24	9	flat	0	dry	poplars and alders	B
L50W 5+30N	Silty clay	brown	26	7	SE	2	damp	poplars and alders	B
L50W 5+55N	Silty sand	brownish grey	25	5	S	3	dry	poplars and alders	B
L50W 5+80N	silty sand	light brown	23	2	E	1	dry	alders and poplars	B
L50W 6+05N	Gravelly sand	greyish brown	20	10	S	2	dry	alders and poplars	B
L50W 6+30N	Sand	orangish brown	22	3	S	2	dry	poplars and alders	B
L50W 6+55N	silty sand	light brown	35	2	flat	0	dry	poplars	B
L45E 4+80N	Silty Clay	Grey	28	3	flat	0	dry	alders some poplars	C
L45E 5+05N	Silt	Grey	23	3	SW	3	dry to damp	Poplars and alders	C

L45E 5+30N	Sandy Silt	Greyish brown	25	7	S	2	dry	alders and poplars, some pine	B
L45E 5+55N	Sandy silt	greyish to orangey brown	29	4	S	2	dry to damp	poplars and alders	B
L45E 5+80N	Silt	grey to orangey brown	23	5	S	1	dry	poplars and ferns	B/C
L45E 6+05N	Sandy Gravel	grey to brownish grey	26	5	S	1	dry	poplars and alders	B/C
L45E 6+30N	Organic	black	5	N/A	S	1.5	dry to damp	poplars and aldes, some pines	A
L145E 4+55N	Clay	Black, borwn layers	69	N/A	flat	0	moist	alders	A
L145E 4+80N	Silt	dark to moderate brown	29	10	S	1	damp	spruce, alders	A/B
L145E 5+05N	Silty Clay	greyish brown	20	5	S	2	damp	poplars and alders	B
L145E 5+30N	Sandy Silt	light greyish brown	20	5	S	2	damp	poplars and alders	B
L145E 5+55N	gravelly Sand	light brown	25	5	SW	3	dry/damp	alders+ poplars	B
L145E 5+80N	N/A	black	2	N/A	flat	0	dry	alders+poplars	A
L145E 6+05N	Gravelly Sand	Orangey brown to brown	35	2	S	2	dry	poplars + alders	B
L245E 4+25N	Silty clay	greyish brown	31	16	flat	0	moist	poplar and balsam	B
L245E 4+50N	Silt	dark grey to brown	32	11	flat	0	dry	poplars, alders, and pine	B
L245E 4+75N	Clay	Orange to Brown	35	25	flat	0	moist	alders and poplars	B
L245E 5+00N	Silt Organic	Blackish to dark brown	40	N/A	SW	2	dry	poplars and balsam	A

L245E 5+25N	silty Sand	Orangey brown	35	3	S	2	dry	poplars and alders	B
L245E 5+50N	Silty sand	Reddish orange brown	23	3	S	2	dry	poplars, alders, and spruce	B
L245E 5+75N	Sandy gravel	greyish brown	16	2	S	4	dry	spruce and alders	B
L245E 6+00N	Sand	reddish brown	23	4	S	2		poplars, alders, spruce	B
L245E 6+25N	Sandy gravel	greyish brown	14	2	S	4	dry	Spruce and alders	B
L345E 3+85N	Gravelly Sand	Black	38	N/A	S	8	dry to damp	Spruce and pine	A
L345E 4+10N	Sandy Silt	light greyish brown	24	15	SW	3	dry to damp	Spruce and pine	B
L345E 4+35N	Gravelly Sand	Brownish grey	35	20	N	4	damp	Pine and spruce	B
L345E 4+60N	Silt	light greyish brown	19	2	flat	0	dry	alder and young maples	B
L345E 4+80N	Silt	dark greyish brown	27	5	S	2	dry	Spruce and pine	B
L345E 5+10N	Gravelly sand	grey to brownish grey	36	9	NNW	1	damp	Pine and balsam	B/C
L345E 5+35N	Gravelly sand	light brown	34	7	S	1	dry	Balsam and spruce	B
L345E 5+60N	Gravelly Sand	Greyish brown	2	15	W	0.5	dry	Balsam and spruce	B
L345E 5+85N	Silt	Orangey brown	32	6	N	2	dry to damp	poplars and alders	B

Table 5. Soil characterization for geochemical samples.

Appendix B- Rock Characterizations

Below are descriptions of the samples OT-001 to OT-014 that were taken during prospecting activities of the gridded area. The author's best attempt was made to correlate the rocks with the classification scheme used by Berger (2006) found on map P3534 (2004) completed by Berger and assistants.

OT-001: Syenite with KSPAR megacrysts 3-5 cm, amphibole pale to dark green and weathered (20%), 2% biotite, 2% magnetite grains 1-2 mm, accessory pyroxenes.

OT-002: Syenite with KSPAR megacrysts 2-5 cm, amphibole pale to dark green and weathered (10%), 2% biotite, accessory pyroxenes.

OT-003: Pegmatite syenite, KSPAR phenocrysts 0.5 cm - 1 cm, 15% amphibole, black to dark green aphanitic veins cross cutting each other with 0.5 - 1 meter persistence.

OT-003B: Sample of vein within the syenite taken described in OT-003. Picture 2 shows type of vein sample was taken from.

OT-004: Anhedral weathered KSPAR phenocrysts (30%) 4-5 mm in size, biotite grains 1-3 mm (15 %), aphanitic grey green groundmass, aplite?, seen in contact with megacryst syenite. This is shown in picture 1.

OT-005: Similar megacryst syenite, weathered amphibole and euhdral magnetite grains 1-2 mm, black pyroxene with 90 degree cleavage, mafics make up 25%, accessory apatite (1 cm long) brown euhedral, garnet purply 6mm grains and euhedral.

OT-006: Similar megacryst syenite, weathered amphibole and euhdral magnetite grains 1-2 mm, black pyroxene with 90 degree cleavage, mafics make up 25%, accessory apatite (1 cm long) brown euhedral, garnet purply 6mm grains and euhedral.

OT-007: Similar megrcryst syenite, 15% amphibole, purple/ blue oxide on weathered surfaces, 5% biotite, KSPAR megacrysts.

OT-008: Megacryst syenite with 2-3 cm KSPAR grains, pale green to greenish brown weathered amphibole (35%), 5% biotite.

OT-009: Sample misplaced.

OT-010: Megacryst syenite with-2-3 cm KSPAR grains, amphibole approx. 5-10 %-weathered, poorly defined, green to pale green. Blue/ purple oxide on weathered, outcrop had light green mafic nodules surfaces. These are shown in picture 3.

OT-011: Pegmatite syenite in contact with granitic rock, nodules (1-4cm) are green, weathered on surface, darker green on fresh surfaces of amphibole/ mafic minerals, weathered surfaces have a purply blue oxide. Feature shown in picture 3.

OT-012: Megacryst syenite with 1-4 cm KSPAR grains, 35% ambphibole content that some appear as anhedral masses, 5% biotite.

OT-013: Anhedral weathered KSPAR phenocrysts (30%) 4-5 mm in size, biotite grains 1-3 mm (15 %), aphinitic grey green groundmass.

OT-014: Megacryst syenite with 35% mafics (amphibole with few black pyroxenes) with high degree of weathering , 5% biotite, accessory apatite, large quartz nodules in outcrop.

The next set of descriptions are those of samples taken from the northern claim units, samples OT-N-001 to OT-N-008B.

OT-N-001: Metavolcanic, low grade (greenschist?) metamorphism, green fresh surfaces, aphanitic, fine grained muscovite gives slightly metallic character, green powder (chlorite?)

OT-N-002: Metavolcanic, magnetite grains ~1mm, high degree of rust staining on weathered surfaces, aphanitic, 1-2% disseminated pyrite; rusty to brown weathered surfaces, grey to black fresh, planar oriented bands of minerals observed (schistocity?), taken from regional magnetic high area.

OT-N-003: Metavolcanic, magnetite grains ~1mm, high degree of rust staining on weathered surfaces, aphanitic, 1-2% disseminated pyrite; rusty to brown weathered surfaces, grey to black fresh, planar oriented bands of minerals observed (schistocity?), taken from regional magnetic high area.

OT-N-004: Metasedimatary, fine grained appears to be schiosity defined by fine grained mica, brown oxidation on weathered surface, grey on fresh surface with submetallic lustre.

OT-N-005: Metavolcanic, appears to be felsite or similar extrusive alkalie rock. Thick layers of light to dark brownish black weathered sulhpide with 5% unweathered pyrite chalcopyrite and gold to grey sulphides. Host rock area has disseminated (1-2 %) sulphides.

OT-N-006: Metavolcanic, light greenish grey fresh surfacres. Associated with thick layers of light to dark brownish black weathered sulhpide with 5% unweathered pyrite and sulphides. Volcanic area has disseminated (1-2 %) sulphides.

OT-N-007: Amphibolite, phaneritic (grains 1-2 mm), dominantly plagioclase and amphibole

OT-N-008: Thick pyrite and sulphide layers with sulphidation in metavolcanic host similar to sample OT-N-006 and OT-N-005, some primary bedding structures were observed in silt/wackestone in contact with the metavolcanic. A quartz vein was observed crosscutting the sulphide facies rock as this with the surrounding unit was sampled as OT-N-008B.

Appendix C- Geochemical Sample Statistics and Histograms

Summary statistics for the elements that were analyzed are presented below in table 5.

	Au (ppb)	Pd (ppb)	Fe (%)	Cu (ppm)	Zn (ppm)	Ni (ppm)
Sample Size	62	62	62	62	62	62
Minimum	0	0	0.25	2.3	4.3	1.3
Maximum	49	10	3.75	68.6	84.8	112.0
Mean	7	2.1	1.94	20.5	40.0	24.4
Median	3	2	1.93	13.6	35.1	20.4
First quartile	2	1	1.25	10.5	20.4	13.4
Third quartile	11	2	2.48	26.4	56.2	31.4
95% confidence interval (mean)	2.30	0.39	0.21	4.1	5.8	4.70
99% confidence interval (mean)	3.10	0.52	0.28	5.4	7.7	6.25
Variance	85.6	2.4	0.7	256.5	522.7	342.7
Average deviation	6.7	0.9	0.7	12.5	19.5	13.4
Standard deviation	9.3	1.5	0.8	16.0	22.9	18.5
Skew	2.49	2.68	0.14	1.31	0.36	1.96
Kolmogorov-Smirnov stat	0.338	0.299	0.068	0.209	0.112	0.110

Table 6. Summary statistics for selected elements.

Histograms are presented to show the distribution of elemental concentrations of the total sample size. Histograms for gold, palladium, copper, iron, nickel, and zinc are shown below in Figures 4, 5, 6, 7, 8, 9, and 10, respectively. Please note that the sample size for all histograms is 62.

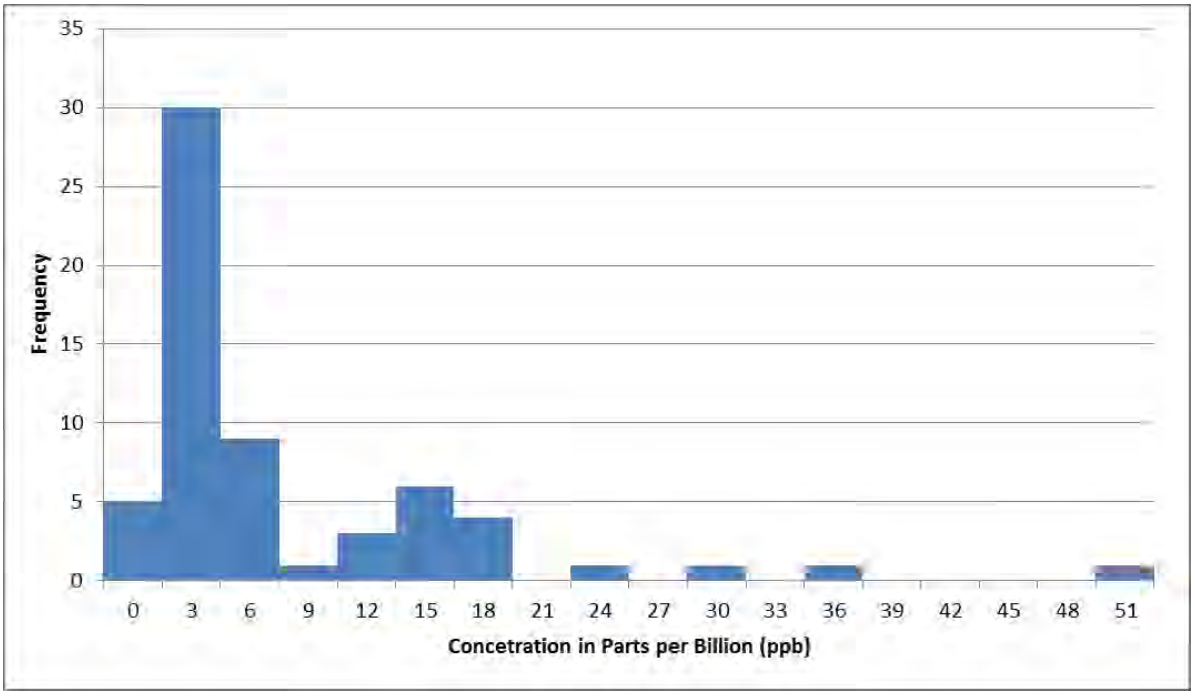


Figure 4. Distribution of gold values. Bin size is 3 ppb.

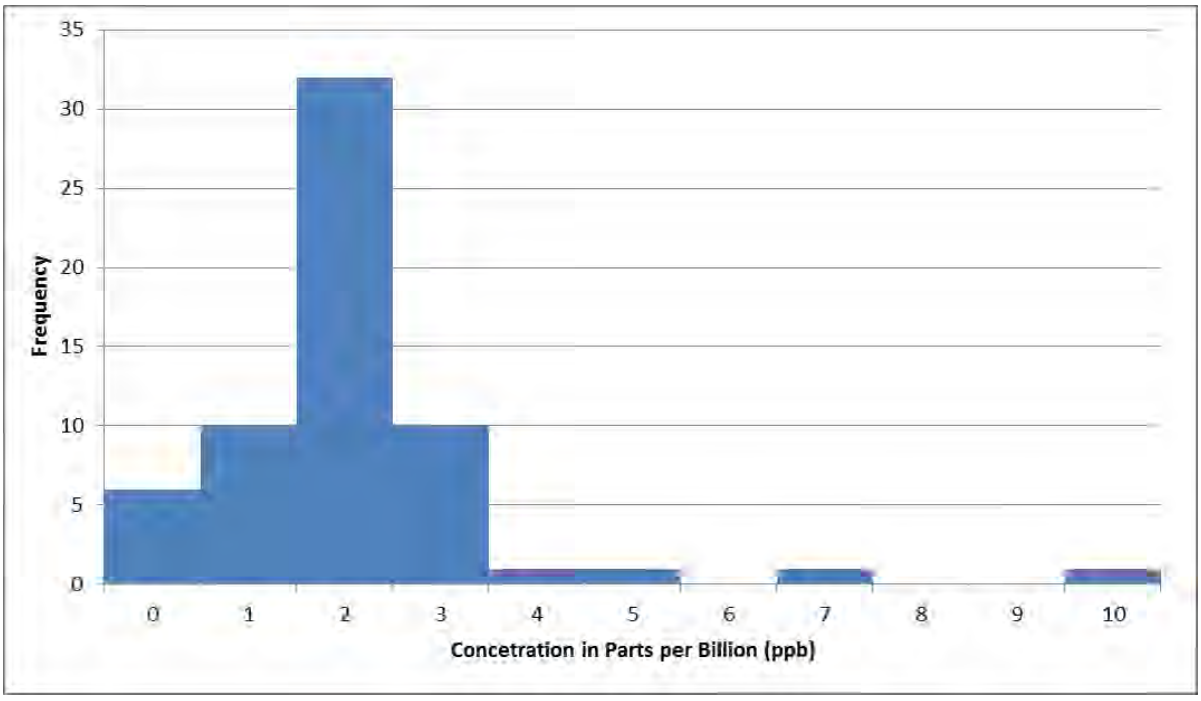


Figure 5. Distribution of palladium values. Bin size is 1 ppb.

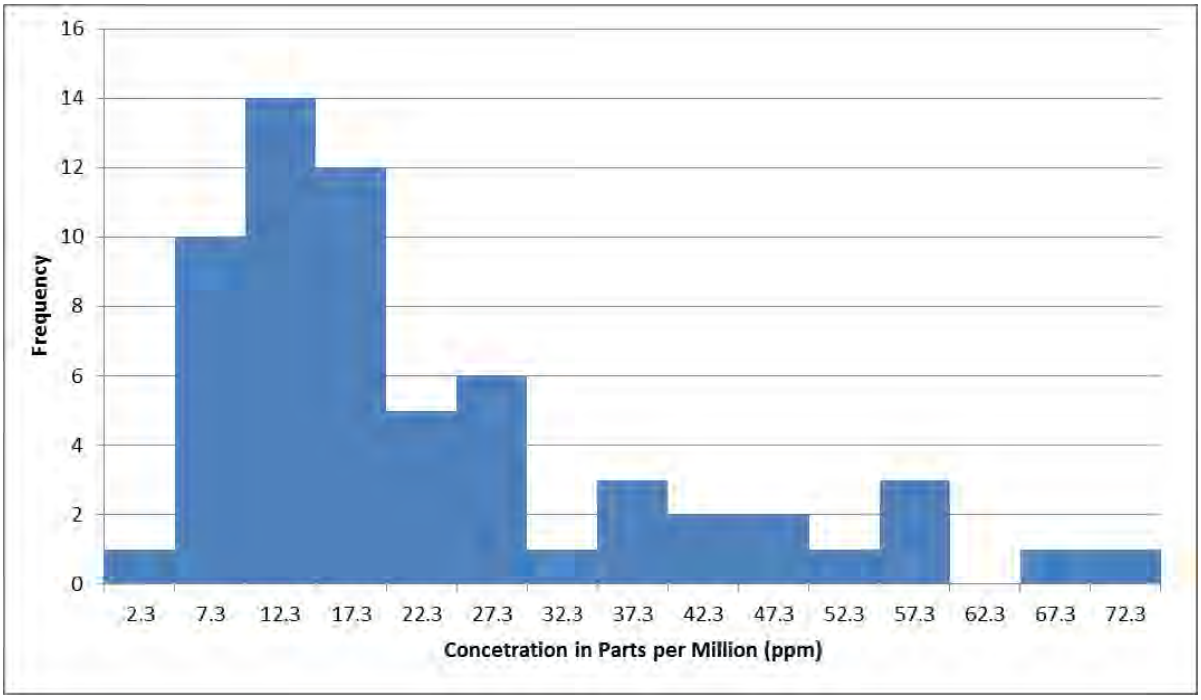


Figure 6. Distribution of copper values. Bin size is 5 ppm.

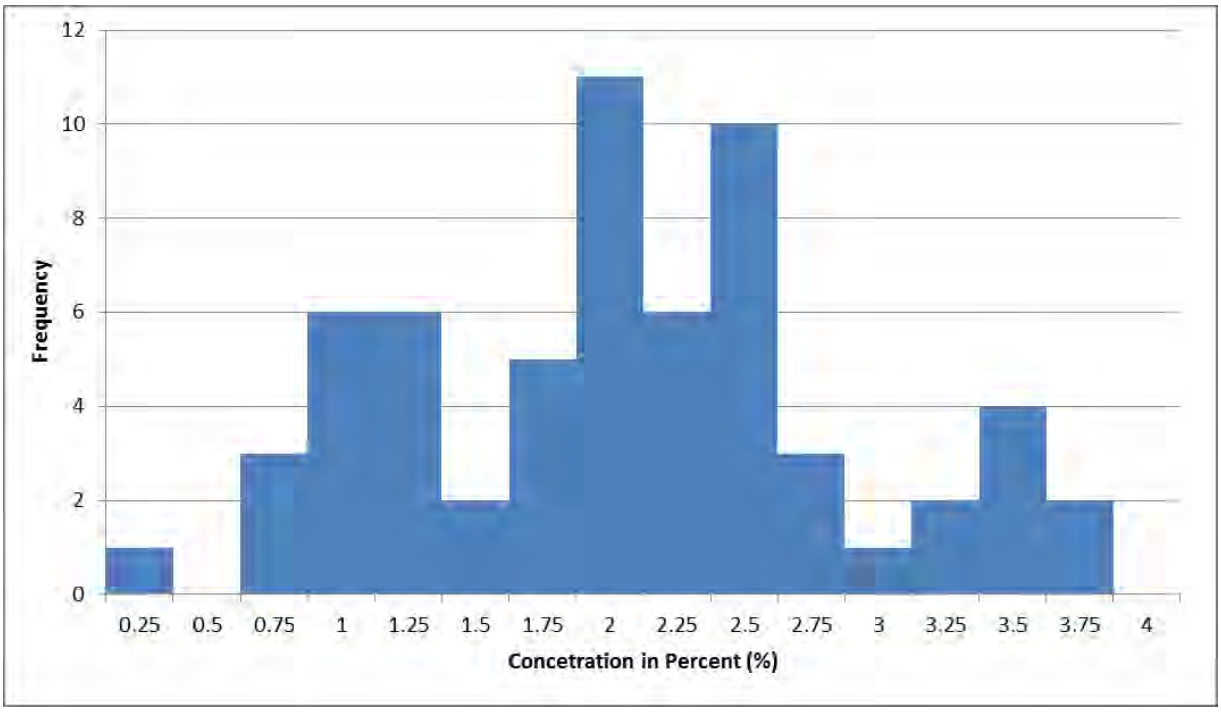


Figure 7. Distribution of iron values. Bin size is 0.25 %.

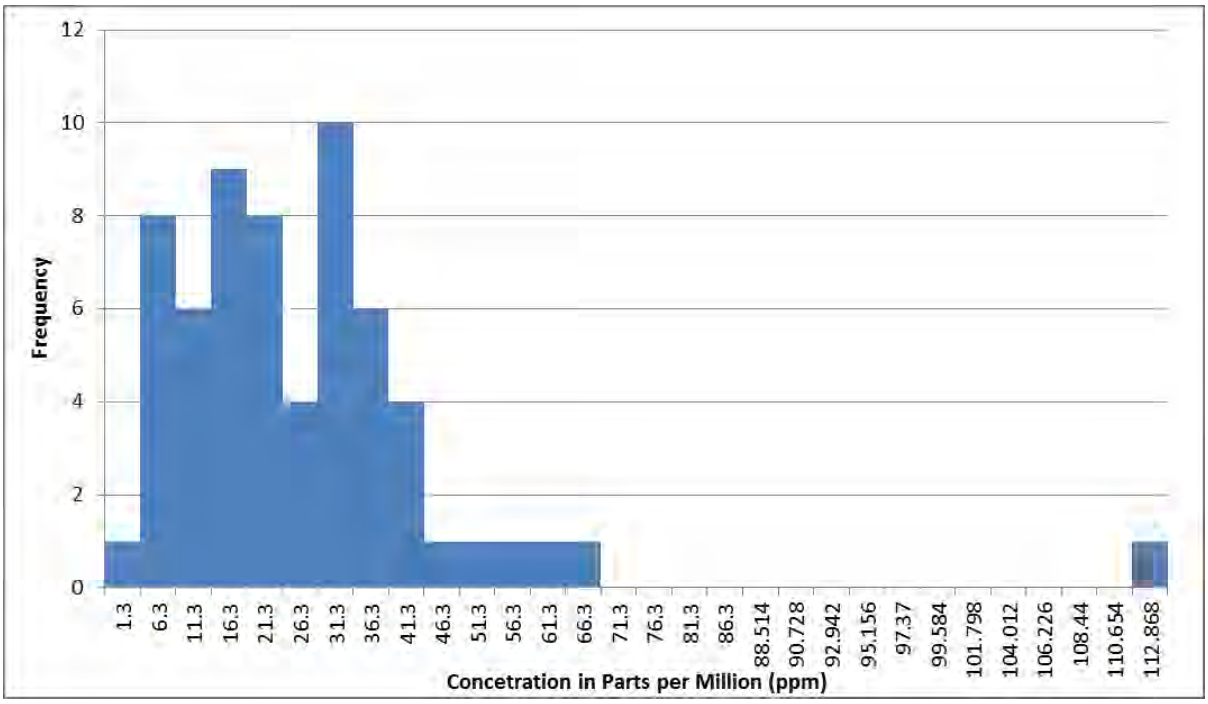


Figure 8. Distribution of nickel values. Bin size is 5 ppm.

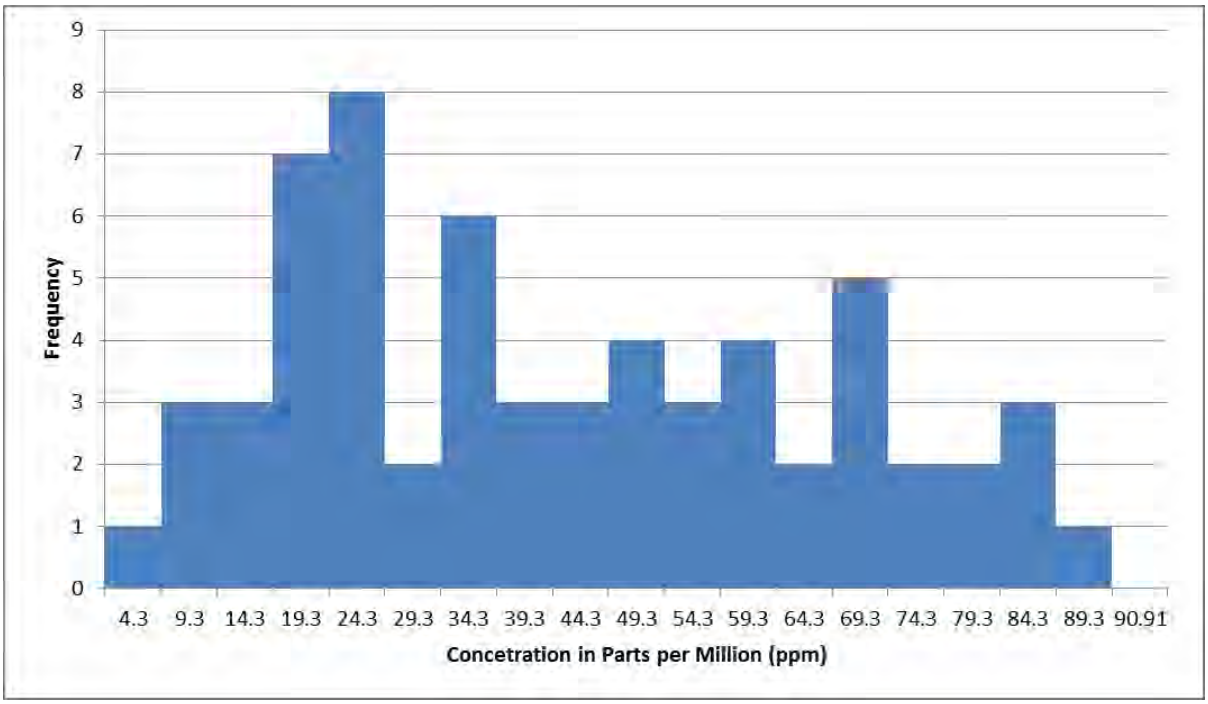


Figure 9. Distribution of zinc values. Bin size is 5 ppm.

Appendix D- Statement of Qualifications

1. I am currently in my third year of studies in geological engineering at Queen's University.
2. I hold a current Ontario Prospector's License (#1007743).

Lucas Currah

August 22, 2012

Appendix E- Timeline for Prospecting and Soil Sampling Activities

Prospecting activities were completed by Lucas Currah (#1007743) and Ken Kelly (#1002146), with supervision from the head project contractor, Drew Currah (#1004698). Below, table 7 shows the distribution and dates and the distribution of work hours on the geochemical and prospecting programs conducted on the Otto property in July, 2012.

Date	Description of Activities	Labour Hours (Prospecting)	Labour Hours (Soil Sampling)	Sub Total
14 July, 2012	Collection of soil samples on lines L350W, L250W, L345E, L245E by Lucas Currah and Ken Kelly, and samples OT-001 - OT-006	6 (2X3)	10 (2x5)	$ 400
15 July, 2012	Prospecting northern claim (4251194), collection of samples OT-N-001 to OT-N-008B by Ken Kelly, Lucas Currah, and Drew Currah	24 (3x8)	0	$ 600
16 July, 2012	Collection of soil samples on lines L150W, L50W, L145E, and L45E and prospecting (samples OT-006-010)	4 (2x2)	12 (6 x 2)	$ 400
17 July, 2012	Prospecting by Lucas Currah and Ken Kelly, samples OT-011 to OT-014)	8 (2x4)	0	$ 200
Total:				$ 1,600

Table 7. Timetable outlining distribution of man hours for prospecting and geochemical work programs.

Appendix F- Assay Certificates

AGAT Laboratories

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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FAX (905)501-0589
http://www.agatlabs.com

CLIENT NAME: SHINING TREE RESOURCES
708-99 BRONTE ROAD
OAKVILLE, ON L6L3B7
(905) 486-9920

ATTENTION TO: DREW CURRAH

PROJECT NO:

AGAT WORK ORDER: 12T621551

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, ICP Supervisor

DATE REPORTED: Jul 26, 2012

PAGES (INCLUDING COVER): 23

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 12T621551
PROJECT NO:

CLIENT NAME: SHINING TREE RESOURCES

ATTENTION TO: DREW CURRAH

Aqua Regia Digest - Metals Package, ICP-OES finish (201073)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
Sample Description RDL:	0.2	0.01	1	5	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01
OT-N-001	<0.2	1.46	9	<5	12	<0.5	<1	1.40	<0.5	<1	11.6	60.3	52.3	2.35
OT-N-002	<0.2	0.02	4	<5	27	<0.5	10	0.45	<0.5	<1	1.8	36.7	33.2	7.04
OT-N-003	<0.2	2.21	5	<5	94	<0.5	2	0.47	<0.5	8	9.6	39.5	1.1	3.65
OT-N-004	<0.2	1.51	8	<5	100	0.6	3	1.00	<0.5	31	7.8	59.8	14.2	2.93
OT-N-005	0.3	0.76	21	9	23	<0.5	22	0.13	<0.5	<1	186	59.9	255	18.6
OT-N-006	<0.2	0.80	7	<5	21	<0.5	2	0.77	<0.5	12	15.5	101	167	2.47
OT-N-007	<0.2	1.72	8	5	51	<0.5	2	2.02	<0.5	<1	8.7	23.4	25.3	2.55
OT-N-008	<0.2	0.61	9	<5	18	<0.5	2	0.89	<0.5	<1	1.9	155	13.3	1.57
OT-11-008-B	<0.2	0.63	11	<5	25	<0.5	<1	1.11	<0.5	24	7.0	53.1	45.6	1.21
0T-001	<0.2	0.48	7	<5	242	0.5	2	0.48	<0.5	124	2.8	67.5	43.0	1.55
0T-002	<0.2	0.63	10	<5	285	0.9	3	0.72	<0.5	188	5.3	45.1	45.1	2.57
0T-003	<0.2	0.59	9	<5	212	0.8	3	0.93	<0.5	143	6.2	65.9	36.3	2.69
0T-003B	<0.2	0.82	11	<5	458	0.8	2	1.17	<0.5	145	8.5	77.9	50.8	3.32
0T-004	<0.2	0.18	7	<5	539	0.6	2	0.58	<0.5	66	2.6	43.5	17.1	1.20
0T-005	<0.2	0.42	7	<5	152	0.5	3	0.47	<0.5	108	3.3	61.7	23.1	1.95
0T-006	<0.2	0.81	11	5	388	1.5	2	0.74	<0.5	121	6.6	37.3	42.6	1.85
0T-007	<0.2	0.73	12	5	302	1.0	2	0.92	<0.5	99	5.7	52.4	34.9	1.73
0T-008	<0.2	0.51	6	<5	76	<0.5	<1	0.58	<0.5	31	3.8	95.8	11.3	0.90
0T-009 (Missing)	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC
0T-010	<0.2	0.36	4	<5	107	0.5	2	0.31	<0.5	68	1.9	59.9	22.0	1.66
0T-011	<0.2	0.39	7	<5	84	0.9	2	0.66	<0.5	34	3.0	129	12.7	2.03
0T-012	<0.2	0.59	9	<5	255	0.8	3	0.77	<0.5	129	6.6	64.2	76.2	2.70
0T-013	<0.2	0.61	6	<5	266	0.7	2	0.75	<0.5	26	5.9	148	11.7	1.23
0T-014	<0.2	0.28	3	<5	92	<0.5	1	0.15	<0.5	33	1.1	70.7	18.0	0.82
L50W-5+05N	<0.2	2.20	9	6	92	0.8	2	0.59	<0.5	32	9.7	71.4	16.1	2.49
L50W-5+30N	<0.2	2.80	10	11	128	1.1	2	0.63	<0.5	32	11.4	79.1	20.8	2.98
L50W-5+55N	<0.2	0.50	5	<5	42	<0.5	1	0.20	<0.5	13	2.0	24.6	4.4	0.91
L50W-5+80N	<0.2	1.42	7	<5	45	<0.5	2	0.17	<0.5	12	4.3	39.7	11.5	1.38
L50W-6+05N	<0.2	0.37	5	<5	55	<0.5	2	0.21	<0.5	16	1.9	22.0	5.0	0.96
L50W-6+30N	<0.2	1.61	7	<5	43	0.6	2	0.33	<0.5	23	5.5	61.9	52.9	1.95
L50W-6+55N	<0.2	0.62	5	<5	40	<0.5	<1	0.28	<0.5	20	3.3	29.4	7.3	0.80
L145E-5+55N	<0.2	0.73	5	<5	59	<0.5	<1	0.25	<0.5	24	4.3	41.7	12.5	1.08

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Certificate of Analysis

AGAT WORK ORDER: 12T621551

PROJECT NO:

CLIENT NAME: SHINING TREE RESOURCES

ATTENTION TO: DREW CURRAH

Aqua Regia Digest - Metals Package, ICP-OES finish (201073)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
Sample Description RDL:	0.2	0.01	1	5	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01
L145E-4+80N	<0.2	1.83	10	6	139	1.0	2	0.70	<0.5	78	9.8	60.2	26.4	2.09
L145E-5+05N	<0.2	2.67	10	10	160	1.1	3	0.56	<0.5	60	12.7	77.4	27.8	3.04
L145E-5+30N	<0.2	1.93	9	<5	115	0.8	3	0.39	<0.5	34	9.7	65.1	22.9	2.22
L145E-4+55N	0.3	3.71	14	10	293	1.6	3	0.96	<0.5	134	11.6	93.6	53.2	3.53
L145E-5+80N	0.3	1.67	11	<5	327	1.2	<1	0.63	<0.5	124	4.0	46.8	54.8	1.03
L145E-6+05N	<0.2	0.98	7	<5	61	0.7	<1	0.27	<0.5	25	3.3	49.6	15.2	2.00
L45E-4+80N	<0.2	1.96	8	7	101	0.8	2	0.46	<0.5	34	10.5	59.5	18.1	2.50
L45E-5+05N	<0.2	1.42	7	<5	71	0.5	<1	0.39	<0.5	26	6.8	52.4	12.3	1.73
L45E-5+30N	<0.2	1.03	6	<5	53	<0.5	1	0.22	<0.5	20	5.0	40.1	13.4	1.16
L45E-5+55N	<0.2	0.56	4	<5	27	<0.5	<1	0.16	<0.5	13	1.8	26.8	4.7	0.78
L45E-5+80N	<0.2	0.96	7	<5	47	<0.5	<1	0.55	<0.5	35	5.2	28.5	4.9	1.25
L45E-6+05N	<0.2	2.08	10	<5	201	0.9	2	0.38	<0.5	33	9.7	89.1	48.5	1.97
L45E-6+30N	0.6	3.75	16	9	296	1.6	3	1.27	<0.5	88	14.9	114	68.6	3.33
L150W-5+30N	<0.2	1.65	7	<5	59	0.6	3	0.39	<0.5	25	8.3	59.1	10.2	1.91
L150W-5+55N	<0.2	1.55	5	<5	54	0.5	1	0.16	<0.5	25	4.9	37.0	11.3	1.54
L150W-5+80N	<0.2	2.18	9	<5	39	1.3	4	0.29	<0.5	28	3.9	68.4	19.1	3.43
L150W-6+05N	<0.2	0.71	9	<5	46	0.8	4	1.47	<0.5	43	2.0	40.6	12.5	2.23
L150W-6+30N	<0.2	2.44	10	7	196	1.1	2	0.82	<0.5	62	9.9	79.9	41.3	2.63
L150W-6+55N	<0.2	1.19	5	<5	51	<0.5	<1	0.22	<0.5	17	3.8	40.6	11.3	1.14
L150W-6+80N	<0.2	1.97	8	<5	138	0.7	1	0.76	<0.5	47	9.9	65.8	21.3	2.29
L250W-5+50N	<0.2	1.76	<1	<5	73	1.3	<1	0.42	<0.5	39	9.2	62.5	12.1	2.34
L250W-5+75N	<0.2	3.31	11	9	153	1.1	3	0.48	<0.5	32	12.0	82.4	26.3	3.34
L250W-6+00N	<0.2	3.12	9	7	115	1.2	4	0.30	<0.5	33	7.6	86.5	35.2	3.75
L250W-6+25N	<0.2	1.06	5	<5	24	<0.5	2	0.17	<0.5	25	4.5	68.5	10.5	1.70
L250W-6+50N	<0.2	0.35	6	<5	34	<0.5	1	0.13	<0.5	40	1.9	22.9	6.0	1.26
L250W-6+75N	<0.2	0.61	3	<5	28	<0.5	<1	0.13	<0.5	13	1.7	15.0	2.8	0.56
L250W-7+00N	<0.2	2.00	7	<5	50	0.8	2	0.17	<0.5	32	4.3	50.0	24.2	2.01
L250W-7+25N	<0.2	0.68	5	<5	40	<0.5	<1	0.25	<0.5	17	2.5	22.8	4.2	0.81
L245E-4+25N	<0.2	2.43	<1	<5	217	1.6	<1	0.72	<0.5	129	10.4	79.1	35.0	2.57
L245E-4+50N	<0.2	1.90	8	5	153	0.8	1	0.39	<0.5	36	7.0	58.7	25.7	1.90
L245E-4+75N	<0.2	2.01	8	8	114	0.8	1	0.52	<0.5	41	9.4	64.2	20.3	2.17
L245E-5+00N	0.5	4.14	17	9	334	2.4	3	1.86	<0.5	284	8.8	73.5	63.4	2.01

Certified By:

Results relate only to the items tested and to all the items tested

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ATTENTION TO: DREW CURRAH

Aqua Regia Digest - Metals Package, ICP-OES finish (201073)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
Sample Description RDL:	0.2	0.01	1	5	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01
L245E-5+25N	<0.2	1.59	8	<5	81	0.8	2	0.32	<0.5	54	7.9	58.9	27.0	1.78
L245E-5+50N	<0.2	0.80	8	<5	50	<0.5	<1	0.33	<0.5	25	3.4	53.7	15.2	1.65
L245E-5+75N	<0.2	0.28	6	<5	27	0.7	3	0.26	<0.5	16	2.0	40.9	10.1	2.50
L345E-3+85N	<0.2	0.51	5	<5	32	0.5	4	0.09	<0.5	7	2.7	92.6	12.1	3.13
L345E-4+10N	<0.2	0.28	4	<5	11	<0.5	<1	0.07	<0.5	11	0.9	23.3	3.8	0.69
L345E-4+45N	<0.2	0.34	4	<5	17	<0.5	<1	0.20	<0.5	14	1.0	10.7	2.3	0.62
L345E-4+60N	<0.2	2.51	9	6	203	1.0	3	0.41	<0.5	46	9.4	73.6	44.2	2.47
L345E-4+80N	<0.2	1.13	7	<5	149	0.9	2	0.20	<0.5	58	4.5	50.7	39.4	1.85
L345E-5+10N	<0.2	0.29	3	<5	33	<0.5	<1	0.08	<0.5	23	<0.5	7.5	6.4	0.25
L345E-5+35N	<0.2	0.40	7	<5	29	1.2	2	0.36	<0.5	22	1.8	27.7	12.5	1.88
L345E-5+60N	<0.2	0.82	10	<5	22	0.7	2	0.94	<0.5	19	3.5	30.2	13.4	2.48
L345E-5+85N	<0.2	0.89	5	<5	36	0.6	1	0.13	<0.5	20	1.6	25.7	11.2	1.04
L245E-6+00N	<0.2	1.46	16	<5	90	1.1	3	0.45	<0.5	55	3.9	62.8	34.4	3.43
L245E-6+25N	<0.2	1.37	6	<5	43	<0.5	1	0.27	<0.5	19	9.3	352	12.3	1.68
L350W-5+80N	<0.2	2.33	9	8	88	0.9	2	0.51	<0.5	35	10.9	65.8	14.9	2.75
L350W-6+05N	<0.2	2.17	8	6	100	0.7	2	0.43	<0.5	23	9.1	65.0	13.2	2.36
L350W-6+35N	<0.2	2.31	9	5	127	0.7	3	0.53	<0.5	24	9.2	72.2	14.8	2.47
L350W-6+60N	0.2	1.00	7	<5	99	0.6	1	0.20	<0.5	56	3.7	42.9	45.5	1.89
L350W-6+85N	<0.2	0.70	5	<5	37	<0.5	1	0.17	<0.5	19	2.8	32.8	10.9	0.87
L350W-7+10N	<0.2	0.98	<1	<5	46	1.0	<1	0.13	<0.5	22	1.2	34.2	7.7	1.78
L350W-7+45N	<0.2	1.43	<1	<5	105	0.8	<1	0.42	<0.5	30	6.4	52.3	9.5	1.84
L350W-7+70N	<0.2	1.78	<1	<5	79	1.0	<1	0.54	<0.5	36	8.2	61.6	13.8	2.27

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 12T621551

PROJECT NO:

CLIENT NAME: SHINING TREE RESOURCES

ATTENTION TO: DREW CURRAH

Aqua Regia Digest - Metals Package, ICP-OES finish (201073)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	Ga	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb
Unit:	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample Description RDL:	5	1	1	0.01	1	1	0.01	1	0.5	0.01	0.5	10	0.5	10
OT-N-001	<5	<1	<1	0.08	1	6	0.87	361	1.3	0.18	21.0	305	4.2	13
OT-N-002	<5	<1	4	<0.01	<1	<1	0.11	120	<0.5	<0.01	0.6	409	3.5	<10
OT-N-003	12	<1	<1	0.98	8	36	1.41	661	<0.5	0.10	10.0	526	6.1	101
OT-N-004	9	<1	<1	0.62	19	18	1.10	425	0.7	0.11	30.1	711	5.6	81
OT-N-005	13	<1	<1	0.13	1	8	0.29	440	<0.5	0.06	33.2	295	12.1	18
OT-N-006	<5	<1	<1	0.11	8	10	0.47	342	1.8	0.12	48.4	835	4.6	11
OT-N-007	6	<1	<1	0.14	2	9	0.68	1140	1.0	0.21	12.1	489	5.0	16
OT-N-008	<5	<1	<1	0.06	2	2	0.10	228	2.4	0.04	4.7	298	47.2	<10
OT-11-008-B	<5	<1	<1	0.18	13	5	0.22	265	1.1	0.10	17.1	1690	2.4	23
0T-001	<5	<1	<1	0.22	53	9	0.32	224	0.7	0.14	8.1	617	10.8	11
0T-002	6	<1	<1	0.33	86	19	0.66	359	1.3	0.15	7.7	1440	8.7	37
0T-003	7	<1	1	0.24	74	20	0.65	486	1.4	0.11	7.9	1560	16.6	29
0T-003B	9	<1	<1	0.25	81	31	0.97	798	1.1	0.11	10.4	1760	15.3	34
0T-004	<5	<1	4	0.08	27	2	0.12	122	<0.5	0.09	4.4	1250	20.8	<10
0T-005	<5	<1	<1	0.27	55	10	0.27	168	1.4	0.13	5.3	1170	9.1	25
0T-006	5	<1	<1	0.46	58	38	0.76	474	2.1	0.13	9.1	1680	7.5	78
0T-007	<5	<1	<1	0.38	44	29	0.56	377	1.8	0.10	6.9	1320	8.0	62
0T-008	<5	<1	<1	0.12	11	9	0.49	185	0.5	0.11	18.1	1180	5.9	12
0T-009 (Missing)	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC
0T-010	<5	<1	<1	0.18	28	5	0.20	152	1.4	0.13	5.4	587	12.4	<10
0T-011	5	<1	<1	0.14	19	4	0.39	227	1.4	0.10	17.5	339	10.5	10
0T-012	6	<1	<1	0.53	77	32	0.67	507	<0.5	0.12	9.0	1900	12.1	104
0T-013	5	<1	<1	0.34	10	19	0.61	208	0.5	0.12	30.6	1140	6.1	57
0T-014	<5	<1	<1	0.17	17	7	0.13	91	0.6	0.11	3.3	241	8.7	15
L50W-5+05N	10	<1	<1	0.25	16	30	0.96	603	0.5	0.03	35.8	357	15.9	82
L50W-5+30N	12	<1	<1	0.35	16	38	1.11	544	<0.5	0.03	38.4	486	19.3	99
L50W-5+55N	5	<1	<1	0.04	7	5	0.18	114	0.6	<0.01	7.1	475	10.8	17
L50W-5+80N	5	<1	3	0.04	8	13	0.35	133	<0.5	0.01	18.3	267	8.6	11
L50W-6+05N	5	<1	<1	0.03	8	4	0.17	82	0.6	<0.01	5.2	269	8.7	15
L50W-6+30N	6	<1	<1	0.03	13	19	0.47	185	<0.5	<0.01	25.4	1060	7.5	12
L50W-6+55N	<5	<1	<1	0.03	11	8	0.30	126	<0.5	0.01	14.1	337	4.0	11
L145E-5+55N	<5	<1	<1	0.04	12	15	0.36	169	0.5	<0.01	19.7	400	4.6	15

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ATTENTION TO: DREW CURRAH

Aqua Regia Digest - Metals Package, ICP-OES finish (201073)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	Ga	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb
Unit:	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample Description RDL:	5	1	1	0.01	1	1	0.01	1	0.5	0.01	0.5	10	0.5	10
L145E-4+80N	7	<1	1	0.16	39	28	0.78	553	<0.5	0.02	30.8	498	13.5	59
L145E-5+05N	10	<1	<1	0.29	27	37	1.08	644	0.6	0.03	40.1	351	17.4	90
L145E-5+30N	7	<1	<1	0.16	17	32	0.82	500	<0.5	0.02	30.2	275	11.6	54
L145E-4+55N	11	<1	<1	0.33	81	47	1.11	635	<0.5	0.03	50.8	800	15.5	111
L145E-5+80N	7	<1	3	0.09	65	16	0.33	105	2.0	0.01	27.3	1250	22.9	29
L145E-6+05N	7	<1	<1	0.02	14	12	0.28	110	1.2	<0.01	15.2	514	9.3	<10
L45E-4+80N	8	<1	<1	0.26	16	27	0.87	651	<0.5	0.02	30.5	452	15.7	88
L45E-5+05N	6	<1	<1	0.12	14	17	0.66	354	<0.5	0.02	25.6	359	11.1	38
L45E-5+30N	<5	<1	<1	0.05	9	9	0.39	148	<0.5	0.01	20.5	438	5.5	10
L45E-5+55N	<5	<1	<1	0.03	7	5	0.16	60	0.8	<0.01	7.9	296	6.7	<10
L45E-5+80N	6	<1	<1	0.03	18	15	0.50	214	<0.5	<0.01	15.2	458	6.3	13
L45E-6+05N	9	<1	<1	0.08	20	42	0.65	196	1.0	0.01	59.2	573	15.6	30
L45E-6+30N	12	<1	<1	0.15	48	61	1.09	572	0.6	0.02	65.5	1910	15.5	47
L150W-5+30N	7	<1	<1	0.12	14	21	0.75	426	<0.5	0.02	27.4	349	11.8	44
L150W-5+55N	6	<1	<1	0.05	9	19	0.35	124	<0.5	0.01	18.3	346	8.0	17
L150W-5+80N	10	<1	<1	0.04	19	26	0.42	159	0.9	<0.01	13.6	2350	13.3	12
L150W-6+05N	9	<1	1	0.05	19	7	0.22	339	1.2	<0.01	4.9	432	21.1	22
L150W-6+30N	10	<1	2	0.18	31	34	0.99	818	1.6	0.03	39.7	752	15.1	80
L150W-6+55N	5	<1	<1	0.04	8	10	0.28	123	<0.5	<0.01	18.7	386	6.5	12
L150W-6+80N	7	<1	4	0.16	23	23	0.90	558	<0.5	0.04	31.4	481	13.1	68
L250W-5+50N	10	<1	<1	0.17	17	26	0.82	627	<0.5	0.02	29.1	268	8.3	61
L250W-5+75N	11	<1	<1	0.36	18	40	1.20	569	<0.5	0.03	39.5	295	19.3	100
L250W-6+00N	19	<1	<1	0.16	23	41	0.71	302	0.8	0.02	26.2	1570	18.2	58
L250W-6+25N	7	<1	<1	0.02	13	17	0.48	114	1.2	<0.01	15.5	927	13.7	<10
L250W-6+50N	5	<1	<1	0.03	20	5	0.12	68	<0.5	<0.01	3.9	348	16.1	<10
L250W-6+75N	<5	<1	1	0.03	7	5	0.12	52	<0.5	<0.01	6.8	189	4.8	<10
L250W-7+00N	6	<1	<1	0.05	16	20	0.35	136	0.7	<0.01	20.2	776	9.6	12
L250W-7+25N	<5	<1	3	0.03	7	7	0.20	82	0.6	<0.01	9.5	339	4.6	<10
L245E-4+25N	9	<1	<1	0.19	56	27	0.79	343	0.8	0.02	43.4	413	6.0	55
L245E-4+50N	8	<1	<1	0.14	19	30	0.69	376	0.9	0.02	27.8	533	10.2	48
L245E-4+75N	7	<1	<1	0.21	18	25	0.82	354	<0.5	0.03	30.8	292	11.6	45
L245E-5+00N	7	<1	<1	0.10	113	48	0.56	881	<0.5	0.02	52.1	1810	12.3	33

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AGAT WORK ORDER: 12T621551
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DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	Ga	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb
Unit:	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample Description RDL:	5	1	1	0.01	1	1	0.01	1	0.5	0.01	0.5	10	0.5	10
L245E-5+25N	5	<1	1	0.07	20	23	0.48	186	<0.5	0.01	36.3	525	8.2	22
L245E-5+50N	<5	<1	<1	0.02	12	11	0.33	125	<0.5	<0.01	19.7	866	5.8	<10
L245E-5+75N	6	<1	<1	0.02	11	2	0.05	95	1.5	<0.01	4.5	273	23.4	<10
L345E-3+85N	8	<1	<1	0.03	9	5	0.15	85	<0.5	<0.01	16.2	254	26.0	<10
L345E-4+10N	<5	<1	<1	0.02	6	<1	0.04	29	<0.5	<0.01	1.9	140	12.5	<10
L345E-4+45N	<5	<1	<1	0.01	7	3	0.09	49	<0.5	<0.01	2.1	135	7.4	<10
L345E-4+60N	9	<1	<1	0.13	23	42	0.79	351	1.1	0.02	35.3	401	11.7	46
L345E-4+80N	7	<1	<1	0.05	33	23	0.33	107	0.9	<0.01	18.6	907	10.2	21
L345E-5+10N	<5	<1	<1	0.02	10	3	0.04	26	0.8	<0.01	1.3	143	11.7	<10
L345E-5+35N	8	<1	<1	0.05	9	5	0.20	146	1.3	0.04	3.5	275	20.1	10
L345E-5+60N	10	<1	<1	0.02	13	21	0.41	294	1.1	<0.01	5.2	1080	15.6	<10
L345E-5+85N	6	<1	<1	0.02	11	12	0.14	54	1.0	<0.01	6.4	267	9.0	<10
L245E-6+00N	18	<1	<1	0.04	33	20	0.44	184	2.4	<0.01	15.0	2160	16.6	11
L245E-6+25N	6	<1	<1	0.03	13	16	2.37	221	<0.5	0.01	112	358	4.5	11
L350W-5+80N	9	<1	2	0.27	16	31	0.98	684	<0.5	0.03	32.3	358	16.5	83
L350W-6+05N	9	<1	<1	0.21	13	28	0.89	521	<0.5	0.03	30.8	283	13.9	79
L350W-6+35N	9	<1	<1	0.15	14	28	0.91	586	<0.5	0.03	35.5	427	13.0	54
L350W-6+60N	8	<1	<1	0.06	29	11	0.35	125	0.9	<0.01	13.4	777	21.0	15
L350W-6+85N	<5	<1	3	0.03	10	8	0.31	91	<0.5	<0.01	15.8	284	11.5	<10
L350W-7+10N	8	<1	<1	0.02	9	6	0.11	111	<0.5	<0.01	7.0	572	7.0	<10
L350W-7+45N	8	<1	<1	0.10	12	17	0.62	690	<0.5	0.02	25.4	255	7.6	53
L350W-7+70N	9	<1	<1	0.19	12	18	0.77	610	<0.5	0.02	31.3	434	7.8	66

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ATTENTION TO: DREW CURRAH

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DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample Description RDL:	0.005	1	0.5	10	5	0.5	10	10	5	0.01	5	5	0.5	1
OT-N-001	0.070	<1	5.5	<10	<5	13.5	<10	<10	<5	0.19	9	<5	65.7	<1
OT-N-002	0.414	<1	<0.5	<10	<5	7.1	<10	<10	<5	<0.01	<5	<5	5.9	<1
OT-N-003	0.006	<1	9.1	<10	<5	14.5	<10	<10	<5	0.30	10	<5	85.8	<1
OT-N-004	0.032	<1	5.9	<10	<5	62.6	<10	<10	<5	0.20	8	<5	59.4	<1
OT-N-005	16.3	<1	2.2	<10	<5	1.2	<10	11	<5	0.05	5	<5	30.6	<1
OT-N-006	0.947	<1	3.9	<10	<5	31.3	<10	<10	<5	0.18	5	<5	41.4	<1
OT-N-007	0.070	<1	11.3	<10	<5	14.6	<10	<10	<5	0.21	9	<5	81.8	<1
OT-N-008	0.059	<1	1.8	<10	<5	46.2	<10	<10	<5	0.13	6	<5	31.6	<1
OT-11-008-B	0.356	2	3.4	<10	<5	29.9	<10	<10	<5	0.14	7	<5	36.4	<1
0T-001	0.018	<1	4.0	<10	<5	156	<10	<10	6	0.17	6	<5	45.4	<1
0T-002	0.017	<1	6.0	<10	<5	172	<10	<10	9	0.29	8	<5	78.8	<1
0T-003	0.018	<1	5.6	<10	<5	144	<10	<10	9	0.23	8	<5	73.0	<1
0T-003B	0.028	<1	5.4	<10	<5	195	<10	<10	7	0.22	8	<5	91.3	<1
0T-004	0.057	<1	10.3	<10	<5	83.5	<10	<10	6	0.16	6	<5	32.0	<1
0T-005	0.009	<1	5.1	<10	<5	175	<10	<10	7	0.18	7	<5	52.4	<1
0T-006	0.038	<1	6.5	<10	<5	439	<10	<10	8	0.17	7	<5	60.1	<1
0T-007	0.034	<1	6.7	<10	<5	440	<10	<10	7	0.18	7	<5	57.0	<1
0T-008	0.008	<1	5.3	<10	<5	58.4	<10	<10	<5	0.13	5	<5	28.9	<1
0T-009 (Missing)	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC
0T-010	0.007	<1	5.6	<10	<5	90.0	<10	<10	6	0.20	5	<5	53.8	<1
0T-011	0.008	<1	5.4	<10	<5	408	<10	<10	<5	0.33	7	<5	85.4	<1
0T-012	0.016	<1	5.7	<10	<5	156	<10	<10	7	0.16	6	<5	72.1	<1
0T-013	0.036	<1	8.9	<10	<5	105	<10	<10	5	0.19	6	<5	51.9	<1
0T-014	<0.005	<1	3.9	<10	<5	60.4	<10	<10	14	0.08	<5	<5	18.6	<1
L50W-5+05N	0.022	<1	6.1	<10	<5	34.3	<10	<10	<5	0.17	8	<5	59.1	<1
L50W-5+30N	0.021	<1	7.4	<10	<5	35.9	<10	<10	6	0.18	8	<5	66.4	<1
L50W-5+55N	0.015	<1	1.3	<10	<5	15.2	<10	<10	<5	0.09	<5	<5	26.2	<1
L50W-5+80N	0.022	<1	2.2	<10	<5	14.5	<10	<10	<5	0.08	<5	<5	31.9	<1
L50W-6+05N	0.011	<1	1.4	<10	<5	22.3	<10	<10	<5	0.12	<5	<5	34.9	<1
L50W-6+30N	0.027	<1	2.2	<10	<5	29.4	<10	<10	<5	0.08	<5	<5	46.3	<1
L50W-6+55N	0.006	<1	2.1	<10	<5	22.6	<10	<10	<5	0.07	<5	<5	22.2	<1
L145E-5+55N	0.017	<1	1.3	<10	<5	36.2	<10	<10	<5	0.08	<5	<5	28.1	<1

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Certificate of Analysis

AGAT WORK ORDER: 12T621551
PROJECT NO:

CLIENT NAME: SHINING TREE RESOURCES

ATTENTION TO: DREW CURRAH

Aqua Regia Digest - Metals Package, ICP-OES finish (201073)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample Description RDL:	0.005	1	0.5	10	5	0.5	10	10	5	0.01	5	5	0.5	1
L145E-4+80N	0.033	<1	5.1	<10	<5	97.6	<10	<10	<5	0.11	7	<5	48.6	<1
L145E-5+05N	0.021	<1	7.0	<10	<5	53.1	<10	<10	<5	0.16	7	<5	68.1	<1
L145E-5+30N	0.018	<1	4.4	<10	<5	38.8	<10	<10	<5	0.14	5	<5	49.5	<1
L145E-4+55N	0.047	<1	9.9	<10	<5	67.0	<10	<10	<5	0.13	9	9	72.4	<1
L145E-5+80N	0.210	2	1.4	<10	<5	227	<10	<10	<5	0.05	<5	<5	23.4	<1
L145E-6+05N	0.025	<1	1.8	<10	<5	58.3	<10	<10	<5	0.12	<5	<5	59.3	<1
L45E-4+80N	0.015	<1	5.8	<10	<5	26.1	<10	<10	<5	0.15	6	<5	56.1	<1
L45E-5+05N	0.020	<1	3.9	<10	<5	26.9	<10	<10	<5	0.11	5	<5	38.6	<1
L45E-5+30N	0.012	<1	2.0	<10	<5	13.6	<10	<10	<5	0.07	<5	<5	26.9	<1
L45E-5+55N	0.011	<1	1.2	<10	<5	18.1	<10	<10	<5	0.09	<5	<5	27.7	<1
L45E-5+80N	0.013	<1	2.4	<10	<5	47.7	<10	<10	<5	0.11	5	<5	28.8	<1
L45E-6+05N	0.049	<1	2.6	<10	<5	51.1	<10	<10	<5	0.09	<5	<5	68.9	<1
L45E-6+30N	0.155	<1	5.1	<10	<5	143	<10	<10	<5	0.10	7	<5	80.9	<1
L150W-5+30N	0.013	<1	4.5	<10	<5	24.7	<10	<10	<5	0.14	6	<5	46.4	<1
L150W-5+55N	0.018	<1	2.3	<10	<5	11.0	<10	<10	<5	0.08	<5	<5	30.1	<1
L150W-5+80N	0.039	<1	4.0	<10	<5	17.0	<10	<10	<5	0.16	6	<5	97.8	<1
L150W-6+05N	0.027	<1	7.9	<10	<5	118	<10	<10	6	0.40	9	<5	116	<1
L150W-6+30N	0.042	<1	6.4	<10	<5	88.2	<10	<10	<5	0.15	8	<5	64.3	<1
L150W-6+55N	0.019	<1	2.0	<10	<5	16.6	<10	<10	<5	0.08	<5	<5	27.1	<1
L150W-6+80N	0.030	<1	6.2	<10	<5	61.6	<10	<10	<5	0.16	8	<5	56.9	<1
L250W-5+50N	0.013	<1	4.7	<10	<5	24.9	<10	<10	<5	0.14	<5	<5	48.8	<1
L250W-5+75N	0.019	<1	8.8	<10	<5	34.1	<10	<10	5	0.18	7	<5	68.0	<1
L250W-6+00N	0.050	<1	5.2	<10	<5	25.9	<10	<10	<5	0.16	<5	<5	84.2	<1
L250W-6+25N	0.020	<1	3.0	<10	<5	14.2	<10	<10	<5	0.21	<5	<5	46.0	<1
L250W-6+50N	0.024	<1	1.3	<10	<5	23.5	<10	<10	<5	0.20	<5	<5	51.9	<1
L250W-6+75N	0.005	<1	1.3	<10	<5	10.7	<10	<10	<5	0.07	<5	<5	15.4	<1
L250W-7+00N	0.025	<1	3.1	<10	<5	9.8	<10	<10	<5	0.09	<5	<5	44.7	<1
L250W-7+25N	0.014	<1	1.3	<10	<5	16.6	<10	<10	<5	0.07	<5	<5	19.2	<1
L245E-4+25N	0.038	2	6.5	<10	<5	63.3	<10	<10	<5	0.12	<5	<5	51.8	<1
L245E-4+50N	0.027	<1	3.6	<10	<5	64.7	<10	<10	<5	0.10	5	<5	45.0	<1
L245E-4+75N	0.011	<1	7.1	<10	<5	46.6	<10	<10	5	0.15	7	<5	51.2	<1
L245E-5+00N	0.174	1	5.7	<10	<5	195	<10	<10	<5	0.05	8	12	41.2	<1

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Certificate of Analysis

AGAT WORK ORDER: 12T621551
PROJECT NO:

CLIENT NAME: SHINING TREE RESOURCES

ATTENTION TO: DREW CURRAH

Aqua Regia Digest - Metals Package, ICP-OES finish (201073)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample Description RDL:	0.005	1	0.5	10	5	0.5	10	10	5	0.01	5	5	0.5	1
L245E-5+25N	0.022	<1	2.8	<10	<5	34.2	<10	<10	<5	0.11	5	<5	41.5	<1
L245E-5+50N	0.019	<1	1.7	<10	<5	36.5	<10	<10	<5	0.10	<5	<5	41.8	<1
L245E-5+75N	0.010	<1	3.1	<10	<5	40.9	<10	<10	5	0.30	<5	<5	97.0	<1
L345E-3+85N	0.018	<1	1.7	<10	<5	18.6	<10	<10	<5	0.20	<5	<5	91.5	<1
L345E-4+10N	0.008	<1	0.7	<10	<5	5.7	<10	<10	<5	0.10	<5	<5	36.0	<1
L345E-4+45N	0.011	<1	1.1	<10	<5	33.8	<10	<10	<5	0.08	<5	<5	32.3	<1
L345E-4+60N	0.025	<1	5.2	<10	<5	55.7	<10	<10	<5	0.15	6	<5	54.0	<1
L345E-4+80N	0.028	<1	1.9	<10	<5	33.7	<10	<10	<5	0.11	<5	<5	48.9	<1
L345E-5+10N	0.013	<1	0.8	<10	<5	16.5	<10	<10	<5	0.15	<5	<5	25.8	<1
L345E-5+35N	0.017	<1	5.4	<10	<5	44.2	<10	<10	7	0.30	6	<5	93.7	<1
L345E-5+60N	0.027	<1	4.7	<10	<5	67.5	<10	<10	<5	0.23	8	<5	105	<1
L345E-5+85N	0.016	<1	1.4	<10	<5	11.9	<10	<10	<5	0.08	<5	<5	37.0	<1
L245E-6+00N	0.037	<1	4.5	<10	<5	23.1	<10	<10	<5	0.19	7	<5	163	<1
L245E-6+25N	0.012	<1	2.0	<10	<5	49.3	<10	<10	<5	0.10	<5	<5	46.3	<1
L350W-5+80N	0.015	<1	6.0	<10	<5	34.6	<10	<10	<5	0.18	8	<5	63.5	<1
L350W-6+05N	0.020	<1	4.8	<10	<5	34.6	<10	<10	<5	0.16	7	<5	53.4	<1
L350W-6+35N	0.022	<1	5.3	<10	<5	40.7	<10	<10	<5	0.17	7	<5	57.2	<1
L350W-6+60N	0.057	<1	1.7	<10	<5	31.0	<10	<10	<5	0.13	<5	<5	55.0	<1
L350W-6+85N	0.017	<1	1.6	<10	<5	16.2	<10	<10	<5	0.11	<5	<5	29.1	<1
L350W-7+10N	0.015	<1	1.5	<10	<5	12.6	<10	<10	<5	0.13	<5	<5	57.1	<1
L350W-7+45N	0.012	<1	3.2	<10	<5	29.3	<10	<10	<5	0.12	<5	<5	36.1	<1
L350W-7+70N	0.015	<1	4.0	<10	<5	28.2	<10	<10	<5	0.13	<5	<5	39.9	<1

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Certificate of Analysis

AGAT WORK ORDER: 12T621551
PROJECT NO:

CLIENT NAME: SHINING TREE RESOURCES

ATTENTION TO: DREW CURRAH

Aqua Regia Digest - Metals Package, ICP-OES finish (201073)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	Y	Zn	Zr
Unit:	ppm	ppm	ppm
Sample Description RDL:	1	0.5	5
OT-N-001	9	25.4	<5
OT-N-002	2	5.5	<5
OT-N-003	8	49.1	8
OT-N-004	4	35.4	13
OT-N-005	2	26.1	5
OT-N-006	6	23.1	7
OT-N-007	15	16.4	<5
OT-N-008	3	16.6	<5
OT-11-008-B	7	34.4	6
0T-001	17	34.1	22
0T-002	24	48.4	31
0T-003	17	59.0	32
0T-003B	18	91.3	31
0T-004	12	13.6	64
0T-005	12	32.5	28
0T-006	12	52.7	33
0T-007	11	48.2	33
0T-008	8	25.3	27
0T-009 (Missing)	NRC	NRC	NRC
0T-010	9	16.7	32
0T-011	6	25.2	26
0T-012	14	78.7	29
0T-013	10	21.5	43
0T-014	5	12.8	23
L50W-5+05N	6	65.5	<5
L50W-5+30N	6	70.6	5
L50W-5+55N	2	32.7	<5
L50W-5+80N	3	23.0	<5
L50W-6+05N	3	20.4	<5
L50W-6+30N	4	41.3	<5
L50W-6+55N	5	13.0	<5
L145E-5+55N	4	33.4	<5

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Aqua Regia Digest - Metals Package, ICP-OES finish (201073)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	Y	Zn	Zr
Unit:	ppm	ppm	ppm
Sample Description RDL:	1	0.5	5
L145E-4+80N	12	49.1	<5
L145E-5+05N	9	64.8	<5
L145E-5+30N	5	50.8	<5
L145E-4+55N	27	83.7	8
L145E-5+80N	13	39.6	<5
L145E-6+05N	4	15.5	<5
L45E-4+80N	7	60.7	<5
L45E-5+05N	6	33.8	<5
L45E-5+30N	4	17.8	<5
L45E-5+55N	2	15.9	<5
L45E-5+80N	5	34.9	<5
L45E-6+05N	5	82.8	<5
L45E-6+30N	13	78.6	<5
L150W-5+30N	5	50.8	<5
L150W-5+55N	3	30.1	<5
L150W-5+80N	6	40.5	<5
L150W-6+05N	9	23.8	22
L150W-6+30N	11	56.2	<5
L150W-6+55N	3	18.4	<5
L150W-6+80N	9	45.1	<5
L250W-5+50N	7	84.8	<5
L250W-5+75N	6	66.3	10
L250W-6+00N	6	82.0	<5
L250W-6+25N	6	73.6	12
L250W-6+50N	6	22.2	<5
L250W-6+75N	2	8.5	<5
L250W-7+00N	5	31.6	<5
L250W-7+25N	3	13.0	<5
L245E-4+25N	19	55.3	<5
L245E-4+50N	5	50.0	<5
L245E-4+75N	7	36.5	10
L245E-5+00N	39	76.3	<5

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CLIENT NAME: SHINING TREE RESOURCES

ATTENTION TO: DREW CURRAH

Aqua Regia Digest - Metals Package, ICP-OES finish (201073)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	Y	Zn	Zr
Unit:	ppm	ppm	ppm
Sample Description RDL:	1	0.5	5
L245E-5+25N	6	34.3	<5
L245E-5+50N	5	21.8	<5
L245E-5+75N	6	14.1	12
L345E-3+85N	3	20.3	<5
L345E-4+10N	2	4.3	<5
L345E-4+45N	2	5.0	<5
L345E-4+60N	8	44.7	<5
L345E-4+80N	7	35.3	<5
L345E-5+10N	3	4.6	<5
L345E-5+35N	6	15.3	23
L345E-5+60N	5	27.1	11
L345E-5+85N	3	17.8	<5
L245E-6+00N	9	27.9	7
L245E-6+25N	3	24.1	<5
L350W-5+80N	7	64.9	<5
L350W-6+05N	5	55.5	<5
L350W-6+35N	6	64.7	<5
L350W-6+60N	8	49.0	<5
L350W-6+85N	3	21.9	<5
L350W-7+10N	3	17.8	<5
L350W-7+45N	4	56.2	<5
L350W-7+70N	5	61.6	<5

Comments: RDL - Reported Detection Limit

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 12T621551

PROJECT NO:

CLIENT NAME: SHINING TREE RESOURCES

ATTENTION TO: DREW CURRAH

Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	Sample Login Weight	Au	Pd	Pt
Unit:	kg	ppm	ppm	ppm
Sample Description RDL:	0.01	0.001	0.001	0.005
OT-N-001	0.37	0.002	0.002	<0.005
OT-N-002	1.09	<0.001	<0.001	<0.005
OT-N-003	0.79	0.001	0.002	<0.005
OT-N-004	0.67	0.003	0.004	<0.005
OT-N-005	0.42	0.009	0.004	<0.005
OT-N-006	2.38	0.001	0.003	<0.005
OT-N-007	0.66	0.002	0.014	0.013
OT-N-008	0.15	0.001	0.002	<0.005
OT-11-008-B	3.23	0.017	0.003	<0.005
0T-001	0.91	0.002	0.002	<0.005
0T-002	0.75	0.002	0.002	<0.005
0T-003	0.47	0.003	0.002	<0.005
0T-003B	0.10	0.002	0.001	<0.005
0T-004	0.54	0.001	0.001	<0.005
0T-005	0.45	0.012	0.004	<0.005
0T-006	1.42	0.003	0.002	<0.005
0T-007	0.74	0.003	0.003	<0.005
0T-008	0.62	0.002	0.003	<0.005
0T-009 (Missing)	NRC	NRC	NRC	NRC
0T-010	0.10	0.002	0.001	<0.005
0T-011	0.80	0.006	0.005	<0.005
0T-012	0.54	0.013	0.003	<0.005
0T-013	1.06	0.001	0.004	<0.005
0T-014	0.42	0.001	0.002	<0.005
L50W-5+05N	0.41	0.002	0.002	<0.005
L50W-5+30N	0.37	0.003	0.001	<0.005
L50W-5+55N	0.41	0.003	0.001	<0.005
L50W-5+80N	0.40	0.003	0.002	<0.005
L50W-6+05N	0.58	0.015	0.002	<0.005
L50W-6+30N	0.47	0.007	0.002	<0.005
L50W-6+55N	0.22	0.002	0.002	<0.005

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Certificate of Analysis

AGAT WORK ORDER: 12T621551

PROJECT NO:

CLIENT NAME: SHINING TREE RESOURCES

ATTENTION TO: DREW CURRAH

Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	Sample Login Weight	Au	Pd	Pt
Unit:	kg	ppm	ppm	ppm
Sample Description RDL:	0.01	0.001	0.001	0.005
L145E-5+55N	0.35	0.002	<0.001	<0.005
L145E-4+80N	0.37	0.018	0.001	<0.005
L145E-5+05N	0.33	0.036	0.003	<0.005
L145E-5+30N	0.57	0.003	0.002	<0.005
L145E-4+55N	0.10	0.004	0.002	<0.005
L145E-5+80N	0.45	0.018	0.002	<0.005
L145E-6+05N	0.36	0.013	0.003	<0.005
L45E-4+80N	0.36	0.003	0.002	<0.005
L45E-5+05N	0.52	0.002	0.001	<0.005
L45E-5+30N	0.47	0.002	0.002	<0.005
L45E-5+55N	0.45	0.002	0.002	<0.005
L45E-5+80N	0.35	0.002	0.002	<0.005
L45E-6+05N	0.38	0.024	0.005	<0.005
L45E-6+30N	0.39	0.017	0.010	<0.005
L150W-5+30N	0.42	0.002	0.002	<0.005
L150W-5+55N	0.41	0.002	0.002	<0.005
L150W-5+80N	0.61	0.002	0.002	<0.005
L150W-6+05N	0.37	0.012	0.002	<0.005
L150W-6+30N	0.47	0.003	0.003	<0.005
L150W-6+55N	0.42	0.002	0.003	<0.005
L150W-6+80N	0.31	0.004	0.002	<0.005
L250W-5+50N	0.37	0.001	0.002	<0.005
L250W-5+75N	0.35	0.003	0.002	<0.005
L250W-6+00N	0.36	0.013	0.002	<0.005
L250W-6+25N	0.61	0.004	0.002	<0.005
L250W-6+50N	0.40	0.003	0.001	<0.005
L250W-6+75N	0.49	0.004	0.002	<0.005
L250W-7+00N	0.43	0.002	0.002	<0.005
L250W-7+25N	0.24	0.004	0.002	<0.005
L245E-4+25N	0.44	0.002	0.002	<0.005
L245E-4+50N	0.41	0.015	0.003	<0.005

Certified By:

Results relate only to the items tested and to all the items tested

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Certificate of Analysis

AGAT WORK ORDER: 12T621551

PROJECT NO:

CLIENT NAME: SHINING TREE RESOURCES

ATTENTION TO: DREW CURRAH

Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)

DATE SAMPLED: Jul 18, 2012 | DATE RECEIVED: Jul 18, 2012 | DATE REPORTED: Jul 26, 2012 | SAMPLE TYPE: Soil

Analyte:	Sample Login Weight	Au	Pd	Pt
Unit:	kg	ppm	ppm	ppm
Sample Description RDL:	0.01	0.001	0.001	0.005
L245E-4+75N	0.17	0.004	0.003	<0.005
L245E-5+00N	0.61	0.004	0.007	<0.005
L245E-5+25N	0.46	0.004	0.001	<0.005
L245E-5+50N	0.58	0.004	0.002	<0.005
L245E-5+75N	0.31	0.011	0.002	<0.005
L345E-3+85N	0.41	0.016	0.003	<0.005
L345E-4+10N	0.39	0.003	0.003	<0.005
L345E-4+45N	0.23	0.030	0.001	<0.005
L345E-4+60N	0.40	0.001	<0.001	<0.005
L345E-4+80N	0.54	0.014	0.001	<0.005
L345E-5+10N	0.51	0.002	<0.001	<0.005
L345E-5+35N	0.62	0.002	0.003	<0.005
L345E-5+60N	0.40	0.001	0.002	<0.005
L345E-5+85N	0.60	0.014	0.002	<0.005
L245E-6+00N	0.56	0.002	0.001	<0.005
L245E-6+25N	0.45	0.003	0.002	<0.005
L350W-5+80N	0.41	<0.001	<0.001	<0.005
L350W-6+05N	0.41	<0.001	<0.001	<0.005
L350W-6+35N	0.59	<0.001	0.002	<0.005
L350W-6+60N	0.48	0.049	0.003	<0.005
L350W-6+85N	0.52	0.011	0.004	<0.005
L350W-7+10N	0.45	<0.001	<0.001	<0.005
L350W-7+45N	0.34	<0.001	0.002	<0.005
L350W-7+70N	0.37	0.002	0.001	<0.005

Comments: RDL - Reported Detection Limit

Certified By:

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Quality Assurance

CLIENT NAME: SHINING TREE RESOURCES
AGAT WORK ORDER: 12T621551
PROJECT NO:
ATTENTION TO: DREW CURRAH

Solid Analysis

RPT Date: Jul 26, 2012

PARAMETER	Batch	REPLICATE				Method Blank	REFERENCE MATERIAL				
		Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits	
										Lower	Upper
Aqua Regia Digest - Metals Package, ICP-OES finish (201073)											
Ag	1	3528805	< 0.2	< 0.2	0.0%	< 0.2				80%	120%
Al	1	3528805	2.80	2.86	2.1%	< 0.01				80%	120%
As	1	3528805	10	10	0.0%	< 1				80%	120%
B	1	3528805	11	11	0.0%	< 5				80%	120%
Ba	1	3528805	128	130	1.6%	< 1				80%	120%
Be	1	3528805	1.06	1.02	3.8%	< 0.5				80%	120%
Bi	1	3528805	2	3		< 1				80%	120%
Ca	1	3528805	0.63	0.64	1.6%	< 0.01				80%	120%
Cd	1	3528805	< 0.5	< 0.5	0.0%	< 0.5				80%	120%
Ce	1	3528805	32	33	3.1%	< 1				80%	120%
Co	1	3528805	11.4	11.8	3.4%	< 0.5				80%	120%
Cr	1	3528805	79.1	82.1	3.7%	< 0.5				80%	120%
Cu	1	3528805	20.8	21.5	3.3%	< 0.5	3962	3800	104%	80%	120%
Fe	1	3528805	2.98	3.01	1.0%	< 0.01				80%	120%
Ga	1	3528805	12	11	8.7%	< 5				80%	120%
Hg	1	3528805	< 1	< 1	0.0%	< 1	1.3	1.3	101%	80%	120%
In	1	3528805	< 1	1		< 1				80%	120%
K	1	3528805	0.35	0.36	2.8%	< 0.01				80%	120%
La	1	3528805	16	17	6.1%	< 1				80%	120%
Li	1	3528805	38	39	2.6%	< 1				80%	120%
Mg	1	3528805	1.11	1.11	0.0%	< 0.01				80%	120%
Mn	1	3528805	544	550	1.1%	< 1				80%	120%
Mo	1	3528805	< 0.5	< 0.5	0.0%	< 0.5				80%	120%
Na	1	3528805	0.03	0.03	0.0%	< 0.01				80%	120%
Ni	1	3528805	38.4	39.7	3.3%	< 0.5				80%	120%
P	1	3528805	486	501	3.0%	< 10	543	600	90%	80%	120%
Pb	1	3528805	19.3	19.8	2.6%	< 0.5				80%	120%
Rb	1	3528805	99	102	3.0%	< 10	13	13	101%	80%	120%
S	1	3528805	0.021	0.022	4.7%	< 0.005				80%	120%
Sb	1	3528805	< 1	< 1	0.0%	< 1				80%	120%
Sc	1	3528805	7.4	7.6	2.7%	< 0.5				80%	120%
Se	1	3528805	< 10	< 10	0.0%	< 10				80%	120%
Sn	1	3528805	< 5	< 5	0.0%	< 5				80%	120%
Sr	1	3528805	35.9	37.5	4.4%	< 0.5	317	390	81%	80%	120%
Ta	1	3528805	< 10	< 10	0.0%	< 10				80%	120%
Te	1	3528805	< 10	< 10	0.0%	< 10				80%	120%
Th	1	3528805	6	6	0.0%	< 5				80%	120%
Ti	1	3528805	0.183	0.188	2.7%	< 0.01				80%	120%
Tl	1	3528805	8	8	0.0%	< 5				80%	120%
U	1	3528805	< 5	< 5	0.0%	< 5				80%	120%
V	1	3528805	66.4	69.6	4.7%	< 0.5				80%	120%
W	1	3528805	< 1	< 1	0.0%	< 1				80%	120%
Y	1	3528805	6	6	0.0%	< 1				80%	120%
Zn	1	3528805	70.6	73.0	3.3%	< 0.5				80%	120%

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Quality Assurance

CLIENT NAME: SHINING TREE RESOURCES
AGAT WORK ORDER: 12T621551
PROJECT NO:
ATTENTION TO: DREW CURRAH

Solid Analysis (Continued)

RPT Date: Jul 26, 2012		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits Lower	Acceptable Limits Upper
Zr	1	3528805	5	5	0.0%	< 5				80%	120%
Aqua Regia Digest - Metals Package, ICP-OES finish (201073)											
Ag	1	3528831	< 0.2	< 0.2	0.0%	< 0.2				80%	120%
Al	1	3528831	1.19	1.24	4.1%	< 0.01				80%	120%
As	1	3528831	5	6	18.2%	< 1				80%	120%
B	1	3528831	< 5	< 5	0.0%	< 5				80%	120%
Ba	1	3528831	51	54	5.7%	< 1				80%	120%
Be	1	3528831	< 0.5	< 0.5	0.0%	< 0.5				80%	120%
Bi	1	3528831	< 1	< 1	0.0%	< 1				80%	120%
Ca	1	3528831	0.216	0.207	4.3%	< 0.01				80%	120%
Cd	1	3528831	< 0.5	< 0.5	0.0%	< 0.5				80%	120%
Ce	1	3528831	17	17	0.0%	< 1				80%	120%
Co	1	3528831	3.8	3.8	0.0%	< 0.5				80%	120%
Cr	1	3528831	40.6	39.6	2.5%	< 0.5				80%	120%
Cu	1	3528831	11.3	11.1	1.8%	< 0.5	3906	3800	102%	80%	120%
Fe	1	3528831	1.14	1.17	2.6%	< 0.01				80%	120%
Ga	1	3528831	5	4	22.2%	< 5				80%	120%
Hg	1	3528831	< 1	< 1	0.0%	< 1	1.4	1.3	109%	80%	120%
In	1	3528831	< 1	< 1	0.0%	< 1				80%	120%
K	1	3528831	0.04	0.04	0.0%	< 0.01				80%	120%
La	1	3528831	8	8	0.0%	< 1				80%	120%
Li	1	3528831	10	10	0.0%	< 1				80%	120%
Mg	1	3528831	0.282	0.288	2.1%	< 0.01				80%	120%
Mn	1	3528831	123	119	3.3%	< 1				80%	120%
Mo	1	3528831	< 0.5	0.9		< 0.5				80%	120%
Na	1	3528831	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Ni	1	3528831	18.7	18.7	0.0%	< 0.5				80%	120%
P	1	3528831	386	392	1.5%	< 10	543	600	91%	80%	120%
Pb	1	3528831	6.53	6.70	2.6%	< 0.5				80%	120%
Rb	1	3528831	12	12	0.0%	< 10	12	13	91%	80%	120%
S	1	3528831	0.019	0.019	0.0%	< 0.005				80%	120%
Sb	1	3528831	< 1	< 1	0.0%	< 1				80%	120%
Sc	1	3528831	2.0	1.9	5.1%	< 0.5				80%	120%
Se	1	3528831	< 10	< 10	0.0%	< 10				80%	120%
Sn	1	3528831	< 5	< 5	0.0%	< 5				80%	120%
Sr	1	3528831	16.6	16.0	3.7%	< 0.5				80%	120%
Ta	1	3528831	< 10	< 10	0.0%	< 10				80%	120%
Te	1	3528831	< 10	< 10	0.0%	< 10				80%	120%
Th	1	3528831	< 5	< 5	0.0%	< 5				80%	120%
Ti	1	3528831	0.08	0.08	0.0%	< 0.01				80%	120%
Tl	1	3528831	< 5	< 5	0.0%	< 5				80%	120%
U	1	3528831	< 5	< 5	0.0%	< 5				80%	120%
V	1	3528831	27.1	26.4	2.6%	< 0.5				80%	120%
W	1	3528831	< 1	< 1	0.0%	< 1				80%	120%

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Quality Assurance

CLIENT NAME: SHINING TREE RESOURCES
AGAT WORK ORDER: 12T621551
PROJECT NO:
ATTENTION TO: DREW CURRAH

Solid Analysis (Continued)

RPT Date: Jul 26, 2012		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits Lower	Acceptable Limits Upper
Y	1	3528831	3	3	0.0%	< 1				80%	120%
Zn	1	3528831	18.4	19.5	5.8%	< 0.5				80%	120%
Zr	1	3528831	< 5	< 5	0.0%	< 5				80%	120%
Aqua Regia Digest - Metals Package, ICP-OES finish (201073)											
Ag	1	3528859	< 0.2	< 0.2	0.0%	< 0.2				80%	120%
Al	1	3528859	0.89	0.92	3.3%	< 0.01				80%	120%
As	1	3528859	5	5	0.0%	< 1				80%	120%
B	1	3528859	< 5	< 5	0.0%	< 5				80%	120%
Ba	1	3528859	36	36	0.0%	< 1				80%	120%
Be	1	3528859	0.6	0.6	0.0%	< 0.5				80%	120%
Bi	1	3528859	1	1	0.0%	< 1				80%	120%
Ca	1	3528859	0.13	0.15	14.3%	< 0.01				80%	120%
Cd	1	3528859	< 0.5	< 0.5	0.0%	< 0.5				80%	120%
Ce	1	3528859	20	21	4.9%	< 1				80%	120%
Co	1	3528859	1.58	1.53	3.2%	< 0.5				80%	120%
Cr	1	3528859	25.7	26.2	1.9%	< 0.5				80%	120%
Cu	1	3528859	11.2	11.0	1.8%	< 0.5	3837	3800	100%	80%	120%
Fe	1	3528859	1.04	1.05	1.0%	< 0.01				80%	120%
Ga	1	3528859	6	7	15.4%	< 5				80%	120%
Hg	1	3528859	< 1	< 1	0.0%	< 1	1.3	1.3	100%	80%	120%
In	1	3528859	< 1	< 1	0.0%	< 1				80%	120%
K	1	3528859	0.023	0.026	12.2%	< 0.01				80%	120%
La	1	3528859	11	12	8.7%	< 1				80%	120%
Li	1	3528859	12	13	8.0%	< 1				80%	120%
Mg	1	3528859	0.14	0.14	0.0%	< 0.01				80%	120%
Mn	1	3528859	54	61	12.2%	< 1				80%	120%
Mo	1	3528859	1.0	1.5		< 0.5				80%	120%
Na	1	3528859	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Ni	1	3528859	6.4	6.4	0.0%	< 0.5				80%	120%
P	1	3528859	267	264	1.1%	< 10	533	600	88%	80%	120%
Pb	1	3528859	9.0	9.0	0.0%	< 0.5				80%	120%
Rb	1	3528859	< 10	< 10	0.0%	< 10	13	13	100%	80%	120%
S	1	3528859	0.016	0.016	0.0%	< 0.005				80%	120%
Sb	1	3528859	< 1	< 1	0.0%	< 1				80%	120%
Sc	1	3528859	1.41	1.60	12.6%	< 0.5				80%	120%
Se	1	3528859	< 10	< 10	0.0%	< 10				80%	120%
Sn	1	3528859	< 5	< 5	0.0%	< 5				80%	120%
Sr	1	3528859	11.9	14.9	22.4%	< 0.5				80%	120%
Ta	1	3528859	< 10	< 10	0.0%	< 10				80%	120%
Te	1	3528859	< 10	< 10	0.0%	< 10				80%	120%
Th	1	3528859	< 5	< 5	0.0%	< 5				80%	120%
Ti	1	3528859	0.08	0.09	11.8%	< 0.01				80%	120%
Tl	1	3528859	< 5	< 5	0.0%	< 5				80%	120%
U	1	3528859	< 5	< 5	0.0%	< 5				80%	120%

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Quality Assurance

CLIENT NAME: SHINING TREE RESOURCES
AGAT WORK ORDER: 12T621551
PROJECT NO:
ATTENTION TO: DREW CURRAH

Solid Analysis (Continued)

RPT Date: Jul 26, 2012		REPLICATE					REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD	Method Blank	Result Value	Expect Value	Recovery	Acceptable Limits	
										Lower	Upper
V	1	3528859	37.0	38.2	3.2%	< 0.5				80%	120%
W	1	3528859	< 1	< 1	0.0%	< 1				80%	120%
Y	1	3528859	3	3	0.0%	< 1				80%	120%
Zn	1	3528859	17.8	17.8	0.0%	< 0.5				80%	120%
Zr	1	3528859	< 5	< 5	0.0%	< 5				80%	120%
Aqua Regia Digest - Metals Package, ICP-OES finish (201073)											
Cu	1					< 0.5	3933	3800	103%	80%	120%
Hg	1					< 1	1.4	1.3	104%	80%	120%
P	1					< 10	543	600	90%	80%	120%
Rb	1					< 10	13	13	97%	80%	120%
Th	1					< 5	1.4	1.4	98%	80%	120%
Aqua Regia Digest - Metals Package, ICP-OES finish (201073)											
Cu	1					< 0.5	3946	3800	103%	80%	120%
Hg	1					< 1	1.4	1.3	108%	80%	120%
P	1					< 10	557	600	93%	80%	120%
Rb	1					< 10	12	13	94%	80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	3528780	0.002	0.002	0.0%	< 0.001	0.282	0.263	107%	80%	120%
Pd	1	3528780	0.0025	0.0029	14.8%	< 0.001				80%	120%
Pt	1	3528859	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	3528793	0.001	0.001	0.0%	< 0.001	1.35	1.52	89%	80%	120%
Pd	1	3528793	0.001	0.002		< 0.001				80%	120%
Pt	1	3528793	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	3528806	0.003	0.093		< 0.001	0.264	0.263	100%	80%	120%
Pd	1	3528806	0.001	0.001	0.0%	< 0.001				80%	120%
Pt	1	3528806	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	3528819	0.002	0.005		< 0.001				80%	120%
Pd	1	3528819	0.001	0.001	0.0%	< 0.001				80%	120%
Pt	1	3528819	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	3528831	0.002	0.004		< 0.001				80%	120%
Pd	1	3528831	0.003	0.002		< 0.001				80%	120%
Pt	1	3528831	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	3528848	0.004	0.002		< 0.001				80%	120%
Pd	1	3528848	0.002	0.001		< 0.001				80%	120%
Pt	1	3528848	< 0.005	< 0.005	0.0%	< 0.005				80%	120%

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Quality Assurance

CLIENT NAME: SHINING TREE RESOURCES

AGAT WORK ORDER: 12T621551

PROJECT NO:

ATTENTION TO: DREW CURRAH

Solid Analysis (Continued)

RPT Date: Jul 26, 2012		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits	
										Lower	Upper

Certified By:

Results relate only to the items tested and to all the items tested

AGAT Laboratories

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
http://www.agatlabs.com

Method Summary

CLIENT NAME: SHINING TREE RESOURCES

AGAT WORK ORDER: 12T621551

PROJECT NO:

ATTENTION TO: DREW CURRAH

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Ag	MIN-200-12020		ICP/OES
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP/OES
B	MIN-200-12020		ICP/OES
Ba	MIN-200-12020		ICP/OES
Be	MIN-200-12020		ICP/OES
Bi	MIN-200-12020		ICP/OES
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP/OES
Ce	MIN-200-12020		ICP/OES
Co	MIN-200-12020		ICP/OES
Cr	MIN-200-12020		ICP/OES
Cu	MIN-200-12020		ICP/OES
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP/OES
Hg	MIN-200-12020		ICP/OES
In	MIN-200-12020		ICP/OES
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP/OES
Li	MIN-200-12020		ICP/OES
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP/OES
Na	MIN-200-12020		ICP/OES
Ni	MIN-200-12020		ICP/OES
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP/OES
Rb	MIN-200-12020		ICP/OES
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP/OES
Sc	MIN-200-12020		ICP/OES
Se	MIN-200-12020		ICP/OES
Sn	MIN-200-12020		ICP/OES
Sr	MIN-200-12020		ICP/OES
Ta	MIN-200-12020		ICP/OES
Te	MIN-200-12020		ICP/OES
Th	MIN-200-12020		ICP/OES
Ti	MIN-200-12020		ICP/OES
Tl	MIN-200-12020		ICP/OES
U	MIN-200-12020		ICP/OES
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP/OES
Y	MIN-200-12020		ICP/OES
Zn	MIN-200-12020		ICP/OES
Zr	MIN-200-12020		ICP/OES
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES

Results relate only to the items tested and to all the items tested

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http://www.agatlabs.com

Method Summary

CLIENT NAME: SHINING TREE RESOURCES

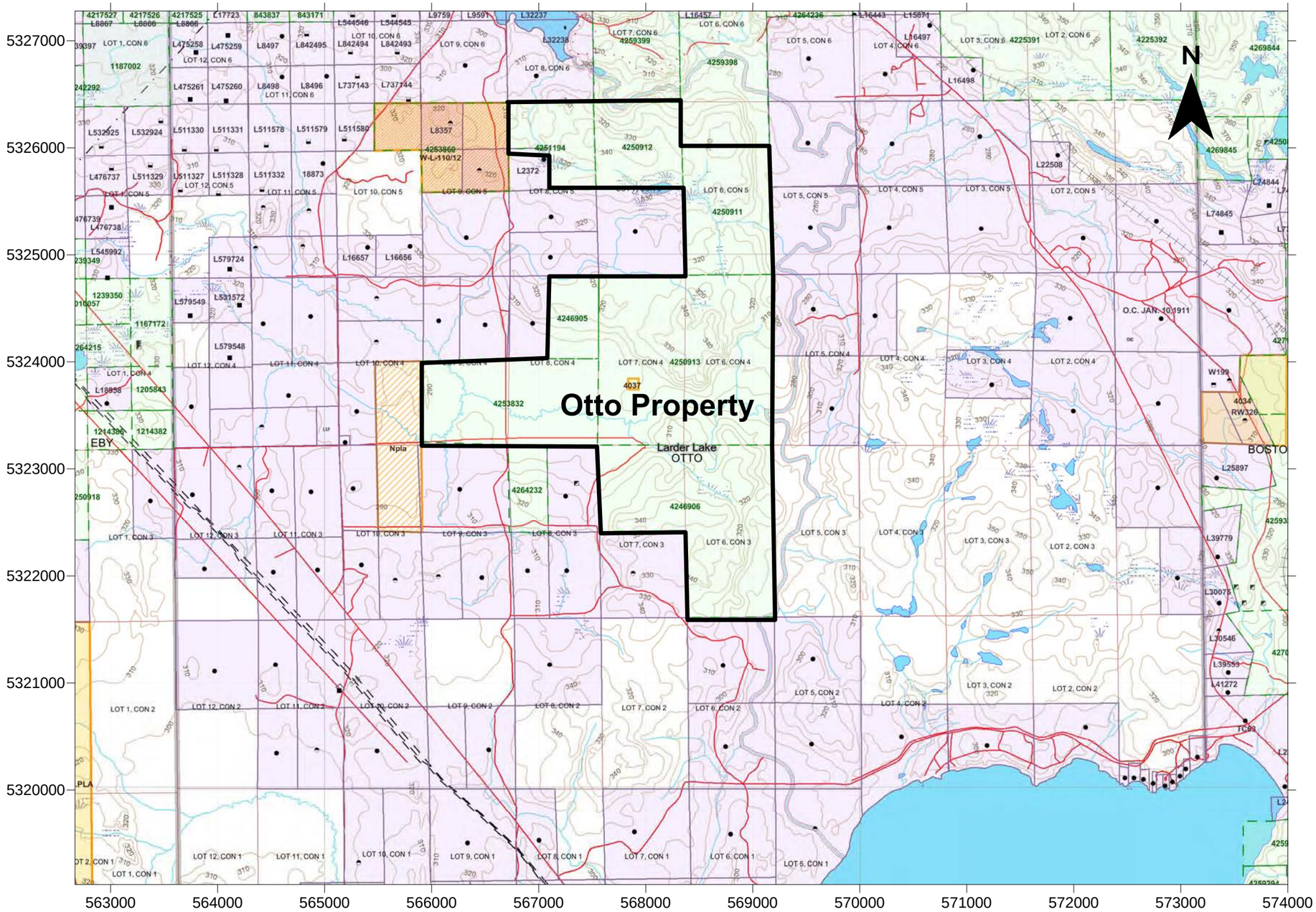
AGAT WORK ORDER: 12T621551

PROJECT NO:

ATTENTION TO: DREW CURRAH

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pd	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES
Pt	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES

Results relate only to the items tested and to all the items tested



Shining Tree Resources Corp.

Map 1: Regional Overview of Land Holdings

Legend



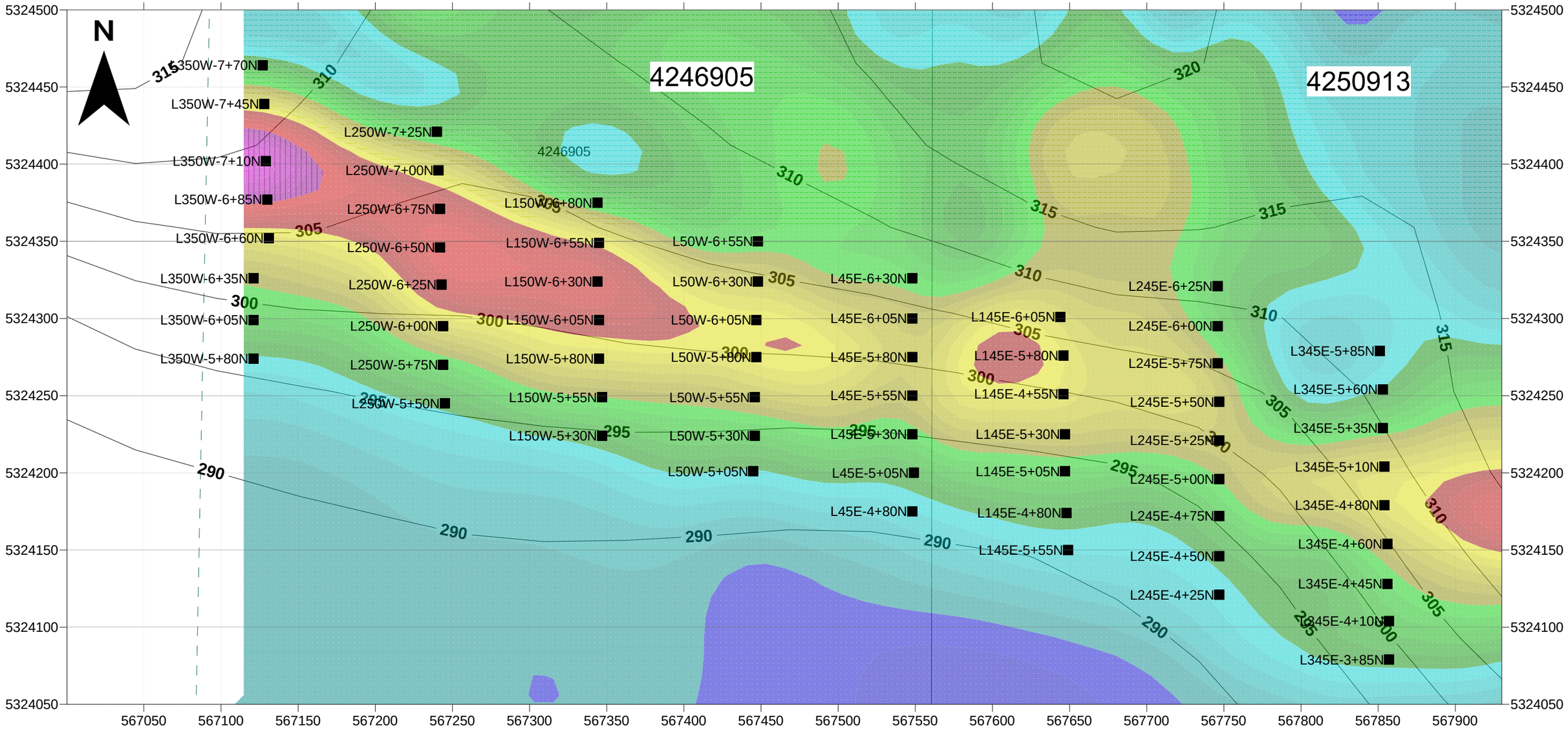
Scale: 1:40,000

0m 500m 1000m 1500m 2000m

Map Datum: NAD83 Zone 17N

Shining Tree Resources Corp.
Map 2: Provincial Location Map





Shining Tree Resources Corp.

Map 3: Soil Sampling Locations with Total Magnetic Field Overlay

Claim Numbers: 4246905, 4250913
Mining Division: Larder Lake
Contours: 5m elevation data from CDEM provided by GeoBase and smoothed with node averaging

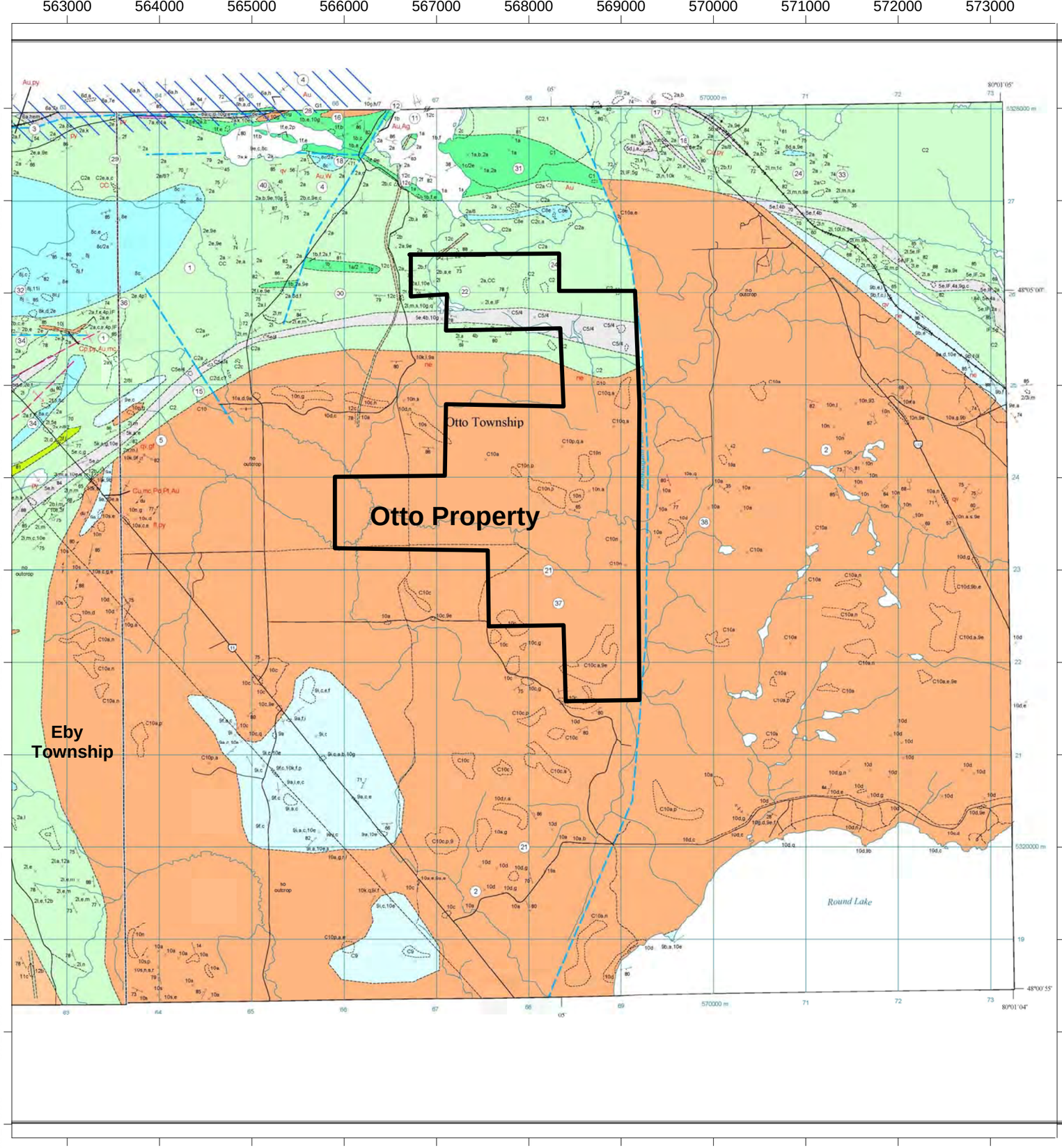
Scale: 1:2,500

0m 50m 100m 150m 200m

Map Datum: NAD83 Zone 17N

Total Magnetic Field in nanoTesla (nT)

55850 55950 56050 56150 56250 56350 56450 56550 56650 56750 56850 56950 57050 57150 57250 57350



LEGEND[a]

PHANEROZOIC

CENOZOIC

QUATERNARY

RECENT
Lake, stream, wetland deposits

PLEISTOCENE
Glacial, glaciofluvial and glaciolacustrine deposits; sand, gravel, clay, till

UNCONFORMITY

PRECAMBRIAN

PROTEROZOIC

PALEOPROTEROZOIC

HURONIAN SUPERGROUP

Cobalt Group

13 Gowganda Formation
13a Conglomerate
13b Siltstone and arkose

UNCONFORMITY

12 Mafic Intrusive Rocks (Diabase Dikes)
12a Diabase, <1% plagioclase phenocrysts (Matachewan swarm)
12b Diabase, >1% plagioclase phenocrysts (Matachewan swarm)
12c Diabase, medium grained, equigranular, unknown affinity

INTRUSIVE CONTACT

ARCHEAN

NEOARCHEAN

11 Metamorphosed Calc-Alkalic Felsic and Intermediate Intrusive Rocks
11a Massive to foliated tonalite
11c Massive to foliated granodiorite, granite
11d Gneiss, compositional mineral layering
11h Xenolith bearing, 1 to 10% generally small (<30 cm in size) country rock
11i Tonalite dikes

10 Metamorphosed Alkalic Felsic and Intermediate Intrusive Rocks
10a Syenite, equigranular, medium to coarse grained
10b Moazonite, quartz monzonite
10c Alkaline granite, quartz syenite
10d "Spotted" syenite, 1 to 10% ultramafic nodules from <1cm to 20 cm in diameter
10e Aplite dikes
10g Feldspar porphyry, syenitic composition
10j Albitite; white to pink, fine grained
10k Syenite gneiss
10l Aplitic syenite; fine grained, sugary textured
10n Coarse-grained to pegmatitic syenite
10p Mesocratic to melanocratic syenite
10q Xenolith bearing, 2 to 10% small (<30 cm in size) mafic country rock
10r Biotite bearing; trace to 15% biotite crystals, up to 7 mm in size
10s Potassium feldspar megacrystic syenite; crystals up to 6 cm in size, 10 to 30% amphibole and biotite in groundmass

INTRUSIVE CONTACT

9 Metamorphosed Alkalic Ultramafic and Mafic Intrusive Rocks
9a Hornblendite and/or pyroxenite
9b Melasyenite
9c Xenolith bearing
9d Mafic syenitic schist
9e Pilogopite-amphibole lamprophyre
9f Alkalic gabbro/diorite
9g Amphibole ± mica lamprophyre
9i Mica-bearing gabbro to melagabbro
9j Megacrystic amphibole, crystals up to 3 cm in diameter

INTRUSIVE CONTACT

8 Metamorphosed Tholeiitic Ultramafic and Mafic Intrusive Rocks
8a Pyroxenite; massive, talc and serpentine bearing[b]
8c Gabbro
8d Schist
8e Diorite to quartz diorite
8h Intrusion breccia
8j Leucogabbro
8k "Knobby" gabbro; amphibole phenocrysts and oikocrysts display positive relief on weathered surface

INTRUSIVE CONTACT

7 Alkalic Metavolcanic and Related Intrusive Rocks—Timiskaming Assemblage
7a Massive mafic and intermediate flows with biotite ± amphibole phenocrysts
7b Intermediate to felsic tuff and lapilli tuff; heterolithic, epiclastic
7c Intermediate to felsic tuff breccia; heterolithic, epiclastic
7d Trachyte flows; feldspar phenocrystic to porphyritic
7e Intermediate to felsic alkalic dikes and sills

6 Clastic and Chemical Metasedimentary Rocks—Timiskaming Assemblage
6a Wacke, sandstone, arkose
6b Siltstone
6c Argillite
6d Conglomerate: polymictic, clast and matrix supported
6e Schist
6h Pebbly conglomerate and grit

5 Clastic and Chemical Metasedimentary Rocks—Turbidite Related
5a Wacke
5b Siltstone
5d Graphitic and pyritic ironstone ± chert
5e Chert
5f Schist
5g Garnetiferous
5h Tuffaceous; fine to medium grained, feldspathic
5j Conglomerate, metavolcanic and metasedimentary clasts from 1 to 40 cm in size
5k Amphibolitic metasedimentary rocks, recrystallized iron formation; magnetite-chert, laminated to thinly bedded

4 Felsic Metavolcanic Rocks
4a Flows
4b Tuff and lapilli tuff
4p Quartz-feldspar tonalite dikes; rarely porphyritic, white weathering

3 Intermediate Metavolcanic Rocks
3a Flows, massive to flow laminated
3d Tuff and lapilli tuff
3e Schist
3f Tuff breccia and breccia, pyroclastic and epiclastic
3i Amphibolite with calc-silicate alteration ± feldspar porphyroblasts
3n Gneiss, banded with mineral segregation and extensive recrystallization

2 Mafic Metavolcanic Rocks
2a Flows, massive
2b Flows, pillowed
2c Pillow and/or flow top breccia
2d Tuff and lapilli tuff
2e Schist
2f Variolitic
2g Amygdaloidal
2h Plagioclase bearing; may be porphyritic
2k Leucoxene bearing
2l Amphibolite
2m Calc-silicate alteration, epidote-chlorite bands, veins, patches ± calcite veins
2n Gneiss, banded and recrystallized
2p Basaltic dikes

1 Ultramafic and Mafic Metavolcanic Rocks (Komatiites)
1a Flows, massive
1b Flows, spinifex textured
1c Schist
1d Komatiitic basalt; very soft, dark green
1e Flow breccia
1f Polysuture-textured flows

[a] This is a field legend and may be changed as a result of subsequent laboratory investigations.
[b] These rocks may, in part, be extrusive.

The letter "C" preceding a code refers to data compiled from existing maps and from maps filed for assessment work credits, and are available for viewing at the Kirkland Lake Resident Geologist's Office and from ERMES. The letter "G" preceding a code refers to data interpreted from geophysical data. The letter "D" preceding a code refers to data compiled from diamond drill hole logs available for viewing at the Kirkland Lake Resident Geologist's Office and from ERMES.

Rock codes designated with a "/" (e.g., 2/3) indicate the lithology may contain both rock types but the first number code is inferred to predominate.

ABBREVIATIONS

asb ..... asbestos
Ag ..... silver
Au ..... gold
CC ..... carbonate alteration
cp ..... chalcopyrite
Cu ..... copper
fl ..... fluorite
gf ..... graphite
mag ..... magnetite
mc ..... malachite
ne ..... nepheline
Pd ..... palladium
Pt ..... platinum
py ..... pyrite
qv ..... quartz vein
Sil ..... silicification
Tour ..... tourmaline
W ..... tungsten

PROPERTIES

1. Allsopp, A. (Au, Cu)
2. Argentex Resources Exploration Corporation (Au)
3. Baldwin Consolidated Mines Limited (Au)
4. Battle Mountain Canada Incorporated (Au)
5. Birnie, W. (Au)
6. Black, A. (industrial mineral)
7. Butte Canyon Resource Incorporated (Au, Cu, Zn)
8. Dominion Gulf Company (Au)
9. Dufresne, R. (Au)
10. Fishkin, M. (Au, Cu)
11. Gateford Mines Limited (Au, Ag)
12. Golden Crescent Resources Limited (Au, Ag)
13. Greater Lenora Resources Corporation (Au)
14. Hemlo Reef Resources (Au)
15. Horne, J. and Robinson, D. (Au)
16. HSK Minerals Limited (Au)
17. International Nickel Company of Canada Limited (Zn, Cu)
18. Jomi Mining and Expediting Limited, Dyment, M. (Au, W)
19. Keevil Mining Group Limited (Au, Cu, Fe)
20. Lacana Mining Corporation (Au)
21. Lee, H. (Au)
22. Marion, E. (Au)
23. Mary Ellen Resources Limited (Au)
24. Minorex Limited (Au)
25. Noranda Exploration Company Limited (Au)
26. Perrons, A. (Au)
27. Preston East Dome Mines Limited (Au)
28. Queenston Mining Limited (Au)
29. Reed, J. (Au)
30. Rio Tinto Canada Exploration Limited (Au)
31. Rivard, F. (Au)
32. Robinson, D. (Au)
33. St. Jean, J. (Au, base metals)
34. Sylvanite Gold Mines Limited (Au)
35. Taylor Gold Mines Limited (Au)
36. Todora Kirkland Prospecting Syndicate (Au, Cu)
37. Vesich, S., Vesich, Z., and Horachek, L. (Au)
38. Walls, J. (industrial minerals)
39. Westminer Canada Limited (Au)
40. Zabudsky, D. (Au)

SOURCES OF INFORMATION

Digital base map derived from Ontario Basic Mapping Program, Surveys, Mapping and Remote Sensing Branch, Ontario Ministry of Natural Resources, scale 1:20 000, with modifications by staff of the Ontario Ministry of Northern Development and Mines.

Metric conversion factor: 1 foot = 0.3048 m.

Geology not tied to survey lines.

Magnetic declination approximately 9°10′ W in 2002. Map coordinates are UTM zone 17, NAD 83.

Gerrie, W. and Thomson, J.E. 1946. Kenogami Lake area, District of Timiskaming, Ontario; Ontario Department of Mines, Map 1946-1, scale 1:12 000.

Lovell, H.L. 1972. Eby–Otto area, Timiskaming District; Ontario Geological Survey, Map 2239, scale 1:31 680.

Ontario Geological Survey 2000. Ontario airborne geophysical surveys, magnetic and electromagnetic data, grid and vector data, Kirkland Lake; Ontario Geological Survey, Geophysical Data Set 1102.

Files of the Resident Geologist's Office, Kirkland Lake and ERMES.

Ontario

Ontario Geological Survey

MAP P.3534

PRECAMBRIAN GEOLOGY
OTTO AND EBY TOWNSHIPS

Scale 1:20 000

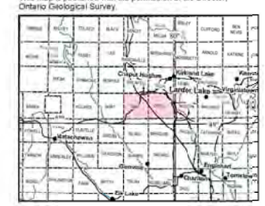
500 m 0 0.5 1 km

1:50,000

NTS Reference: 42 A/1

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Location Map 1 cm equals 10 km

SYMBOLS

- crossbedding, inclined, with facing
- graded bedding, with facing (vertical, overturned)
- unconformity, inclined, no facing
- sedimentary bedding, inclined, facing known from other than grading or crossbedding
- pillowed flow, with facing (inclined, vertical, overturned)
- pillowed flow, no facing (trend only, magnitude of dip uncertain)
- bedding, unsubdivided, no facing (inclined, vertical, trend only)
- bedding, volcanic structures other than pillows and flow tops, no facing (inclined, vertical)
- general cleavage, unknown generation (inclined, vertical)
- compositional layering and parallel foliation, unknown generation (inclined, vertical, trend only)
- mineral foliation, 1st generation (inclined, magnitude of dip uncertain)
- mineral foliation, 2nd generation (inclined, vertical, magnitude of dip uncertain)
- mineral foliation, unknown generation (inclined, vertical, magnitude of dip uncertain, trend only)
- fracture, inclined, unknown separation; unknown generation
- (4) Property
- igneous foliation, primary (inclined, vertical, trend only)
- igneous layering, unsubdivided, no facing (inclined, vertical, trend only)
- crenulation lineation, M-asymmetry, 2nd generation
- elongation lineation (stretch), unknown generation
- fold axis lineation; U-asymmetry, unknown generation
- mineral lineation, unknown generation
- slickenside lineation, unknown generation
- schistosity (inclined, vertical)
- glacial striae
- vein (quartz ± carbonate ± epidote ± sulphide), a-type, unknown generation (inclined, vertical)
- vein (carbonate ± epidote), c-type, unknown generation, inclined
- geological contact (interpreted, observed, interpreted from geophysical data)
- fault and/or lineament
- anticline, unknown generation, trend only
- syncline, unknown generation, trend only
- outcrop area
- small outcrop
- Hachured area Cadillac–Larder Lake deformation zone
- Diamond drill hole, inclined

CREDITS

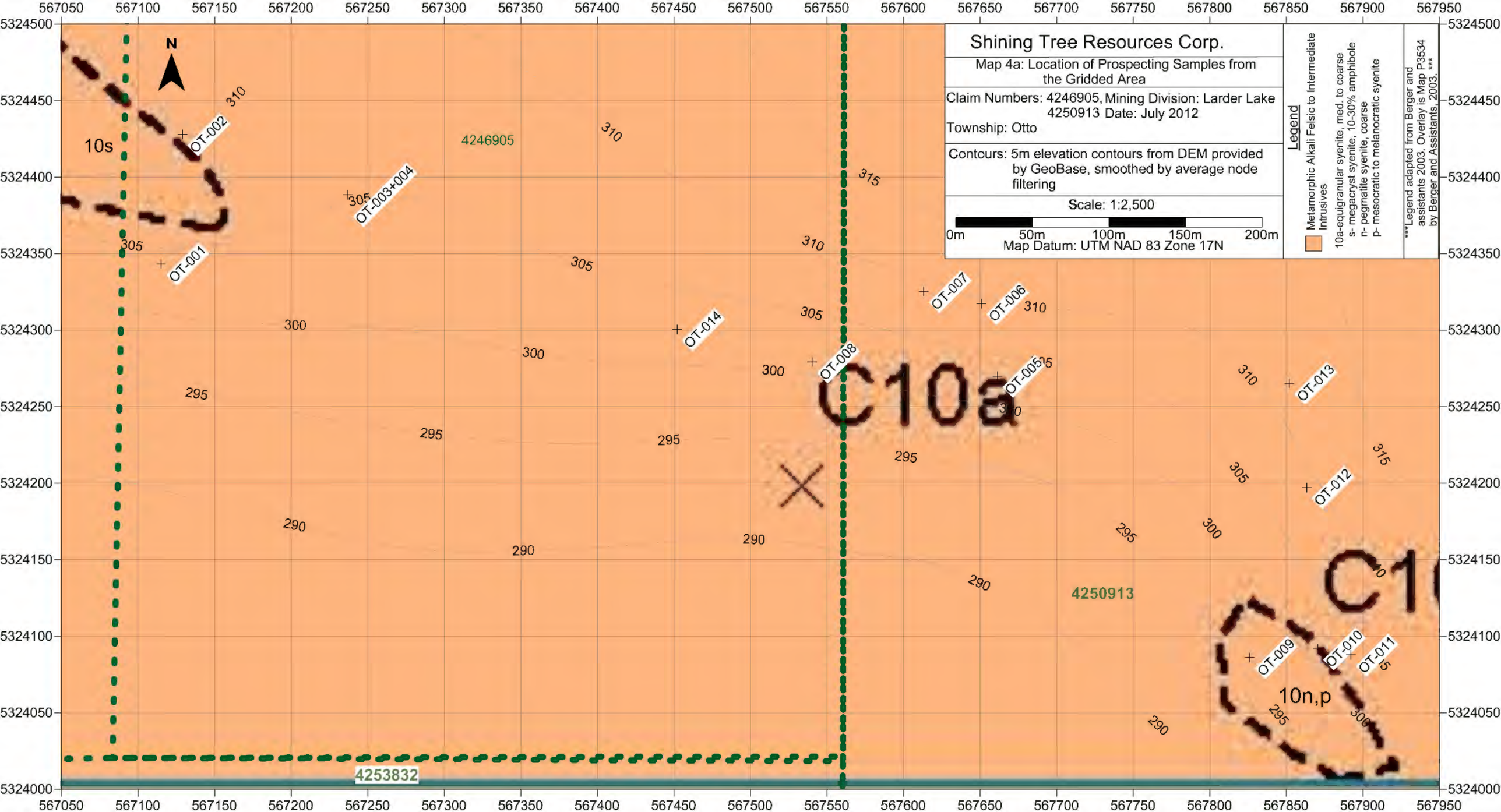
Geology by L. Pigeon, B.R. Berger and assistants, 2003.

To enable the rapid dissemination of information, this map has not received a technical edit. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Users should verify critical information; sources include both the references listed here, and information on file at the Resident Geologist's Office and the Mining Recorder's Office nearest the map area.

Issued 2004.

Information from this publication may be quoted if credit is given. It is recommended that reference to this map be made in the following form:

Pigeon, L. and Berger, B.R. 2004. Precambrian geology, Otto and Eby townships; Ontario Geological Survey, Preliminary Map P.3534, scale 1:20 000.


Shining Tree Resources Corp.
Map 4a: Location of Prospecting Samples from the Gridded Area
Claim Numbers: 4246905, Mining Division: Larder Lake
4250913 Date: July 2012
Township: Otto
Contours: 5m elevation contours from DEM provided by GeoBase, smoothed by average node filtering
Scale: 1:2,500
0m 50m 100m 150m 200m
Map Datum: UTM NAD 83 Zone 17N
Legend
Metamorphic Alkali Felsic to Intermediate Intrusives
10a-equigranular syenite, med. to coarse
s- megacryst syenite, 10-30% amphibole
n- pegmatite syenite, coarse
p- mesocratic to melanocratic syenite
***Legend adapted from Berger and assistants 2003. Overlay is Map P3534 by Berger and Assistants, 2003. ***
N
4246905
4250913
4253832
C10a
10s
10n,p
OT-001
OT-002
OT-003+004
OT-005
OT-006
OT-007
OT-008
OT-009
OT-010
OT-011
OT-012
OT-013
OT-014
567050 567100 567150 567200 567250 567300 567350 567400 567450 567500 567550 567600 567650 567700 567750 567800 567850 567900 567950
5324500 5324450 5324400 5324350 5324300 5324250 5324200 5324150 5324100 5324050 5324000

Shining Tree Resources Corp.

Map 4b: Location of Prospecting Samples from the Northern Claim Units

Claim Numbers: 4251194 Mining Division: Larder Lake
Township: Otto Date: July 2012

Contours: 5m elevation contours from DEM provided by GeoBase, smoothed by average node filtering

Scale: 1:2,500

0m 50m 100m 150m 200m

Map Datum: UTM NAD 83 Zone 17N

Legend

Clastic and Chemical Metasedimaentary

Mafic Metavolcanics

2a- flows, massive
2l- amphibolite
2n- gneiss, banded
10e- aplite dykes
5e- chert
4b- Tuff and lapilli tuff
10g- feldspar porphyry

***Legend adapted from Berger and assistants 2003. Overlay is Map P3534 by Berger and Assistants, 2003. ***

N

4251194

Hannah Rd.

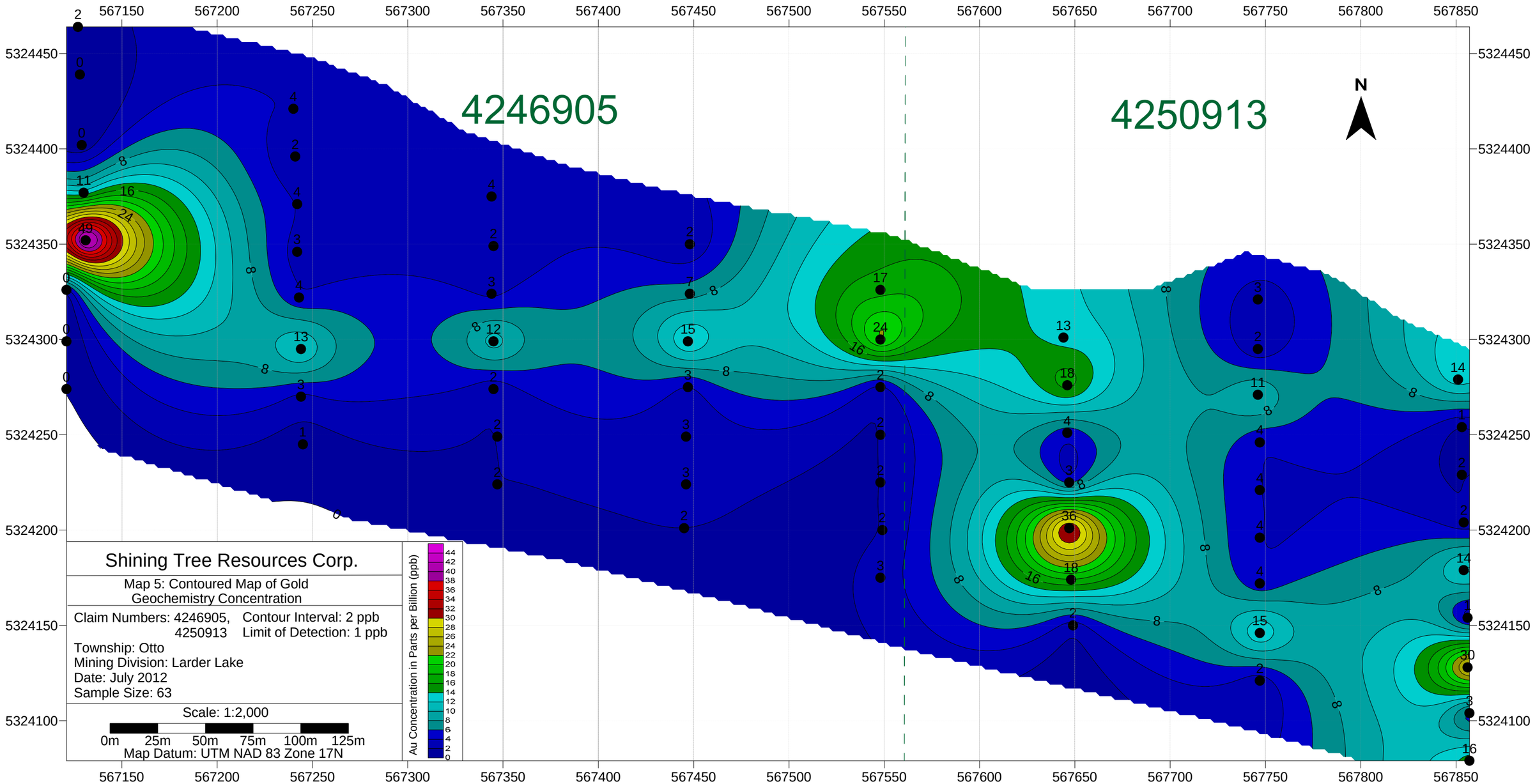
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OT-N-003+
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OT-N-008+

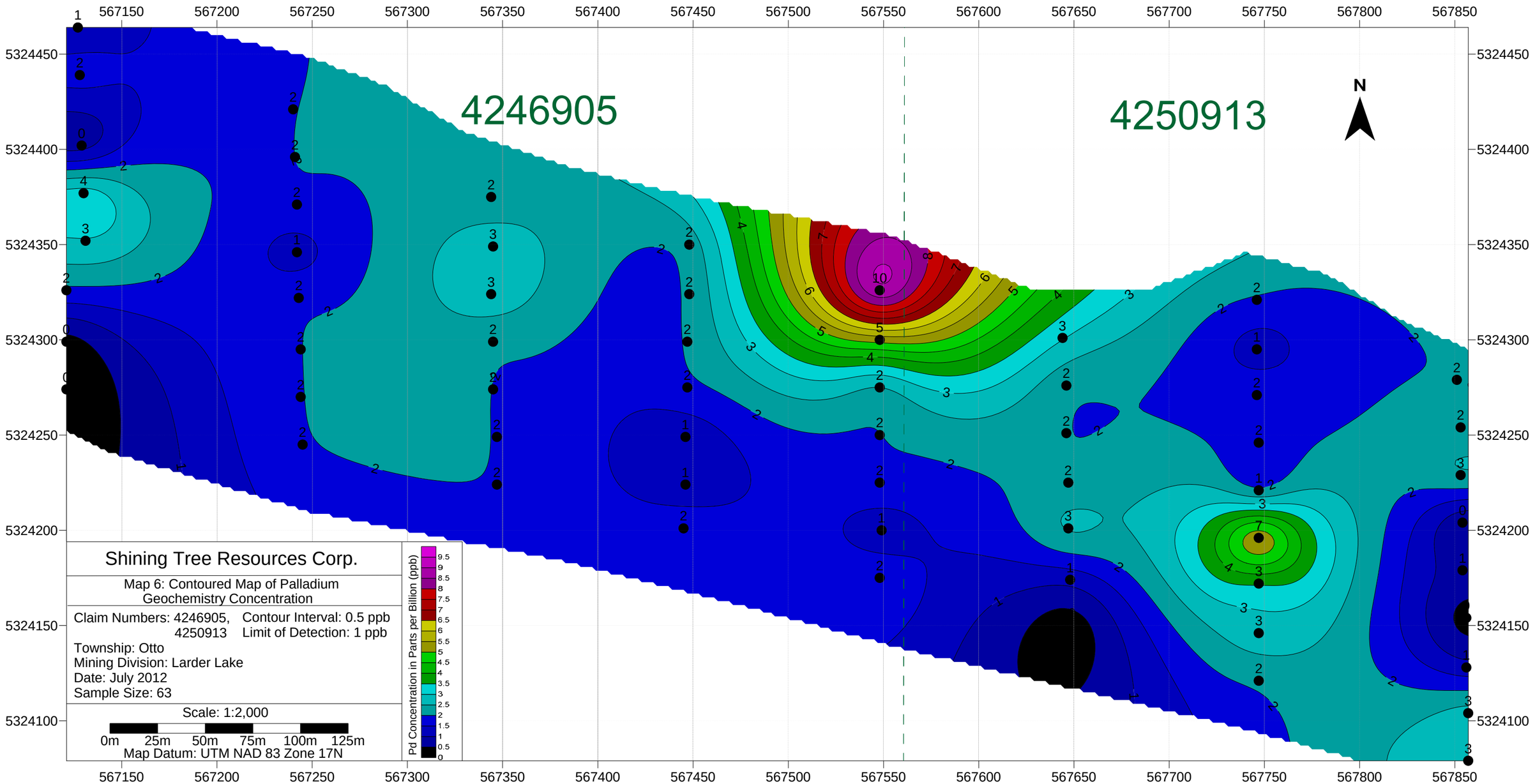
2a,l,10e
2l
2l,m
76
80
22
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2l,e
5e,4b,10g
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2lem,
2l,a
4b
69

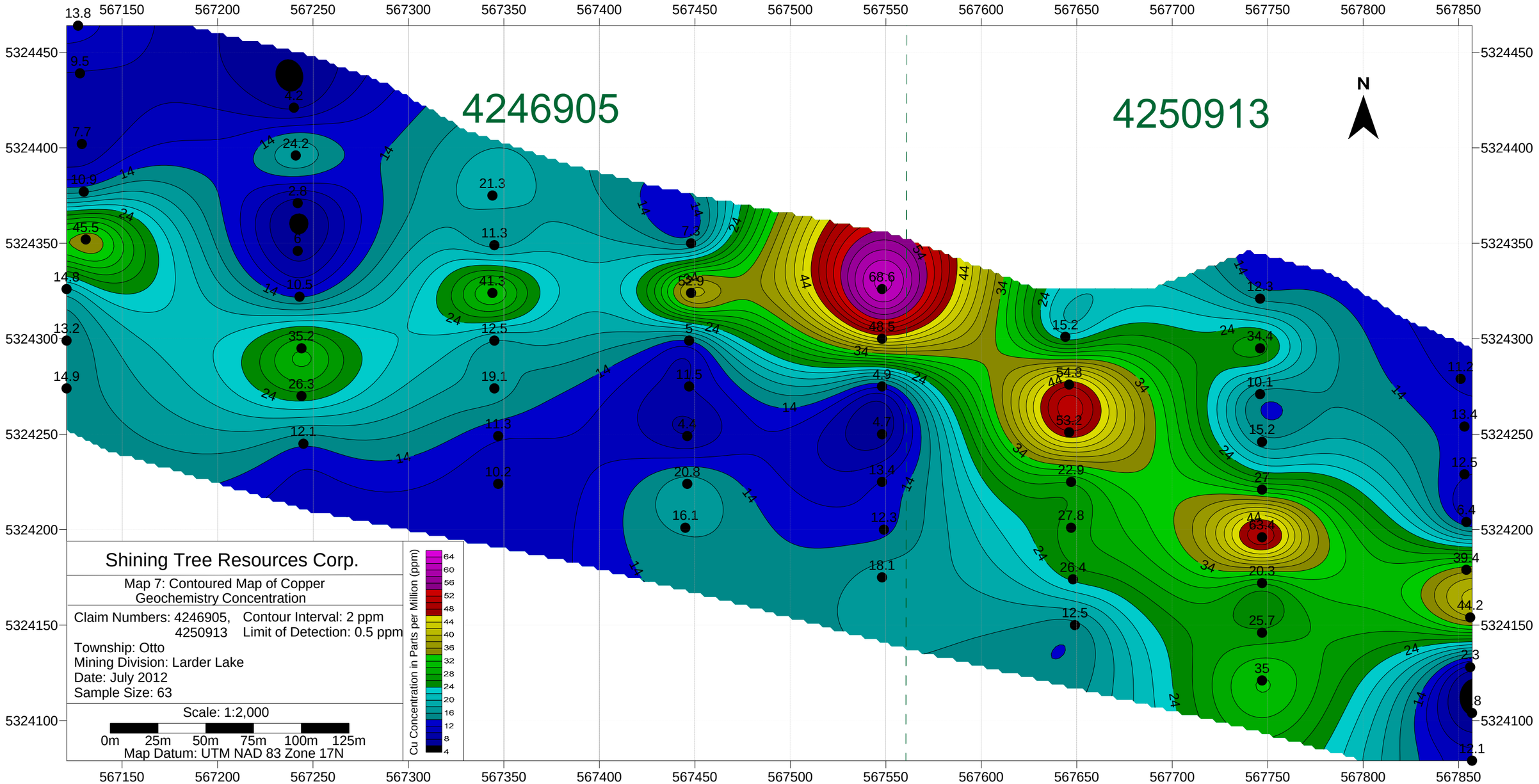
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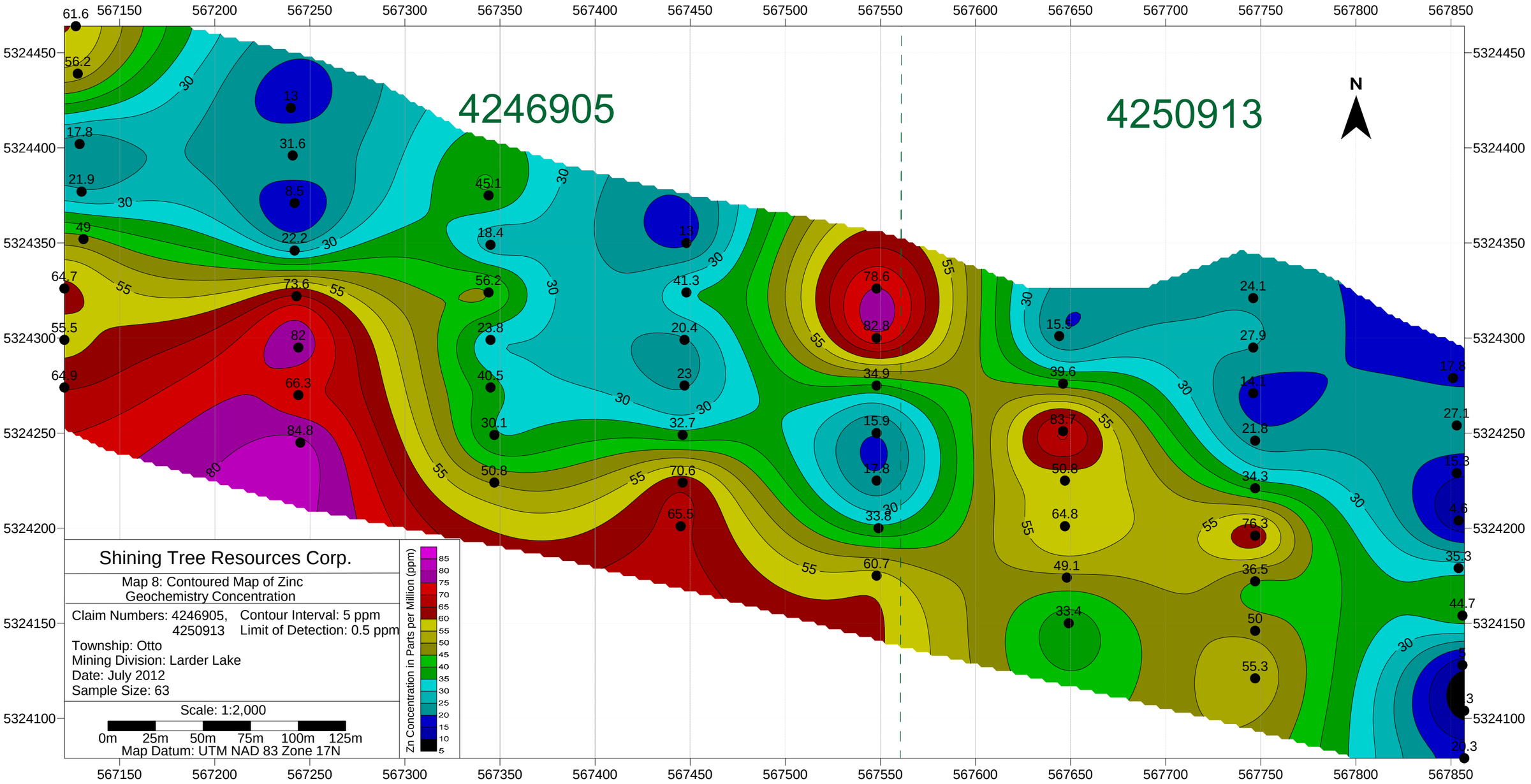
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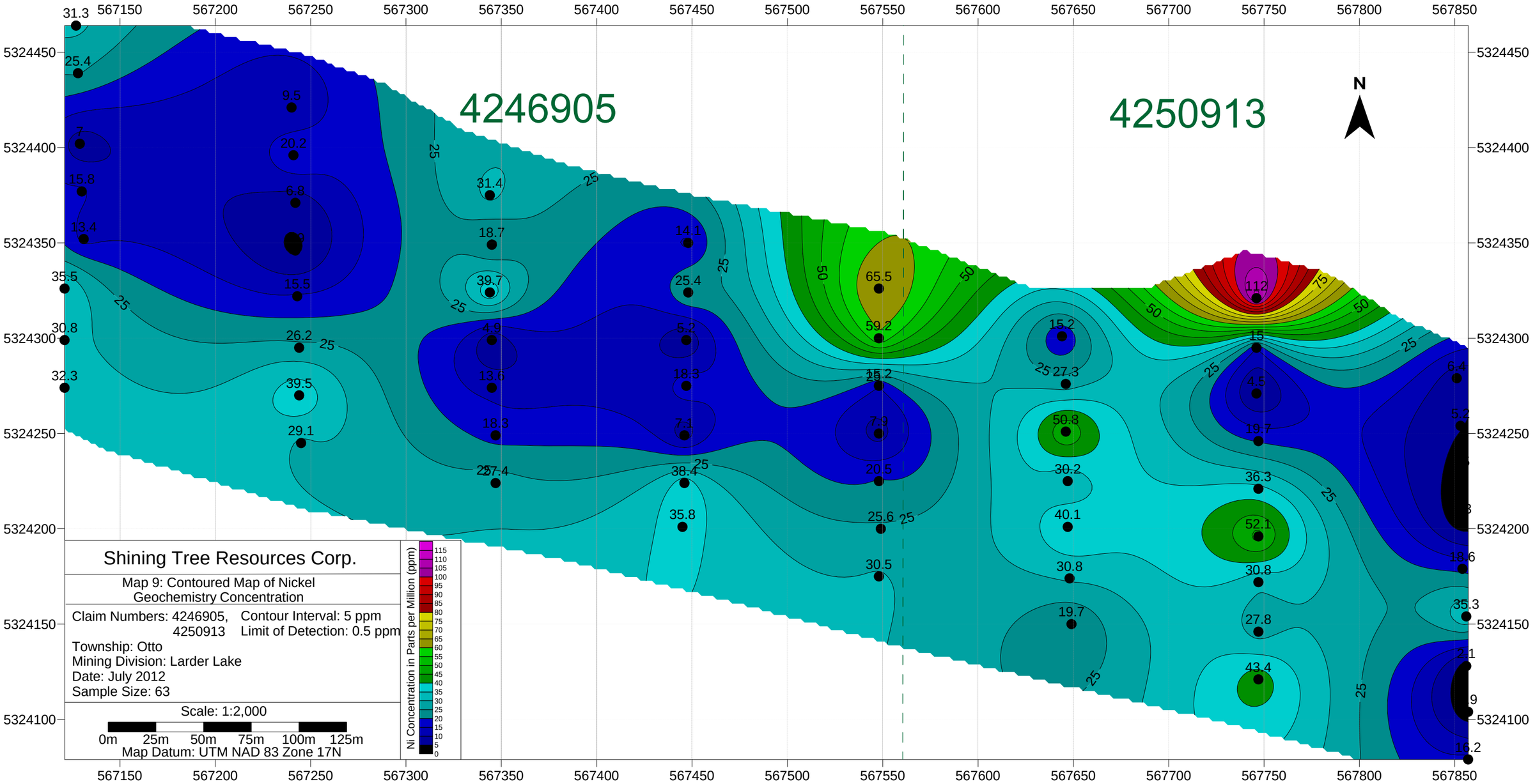
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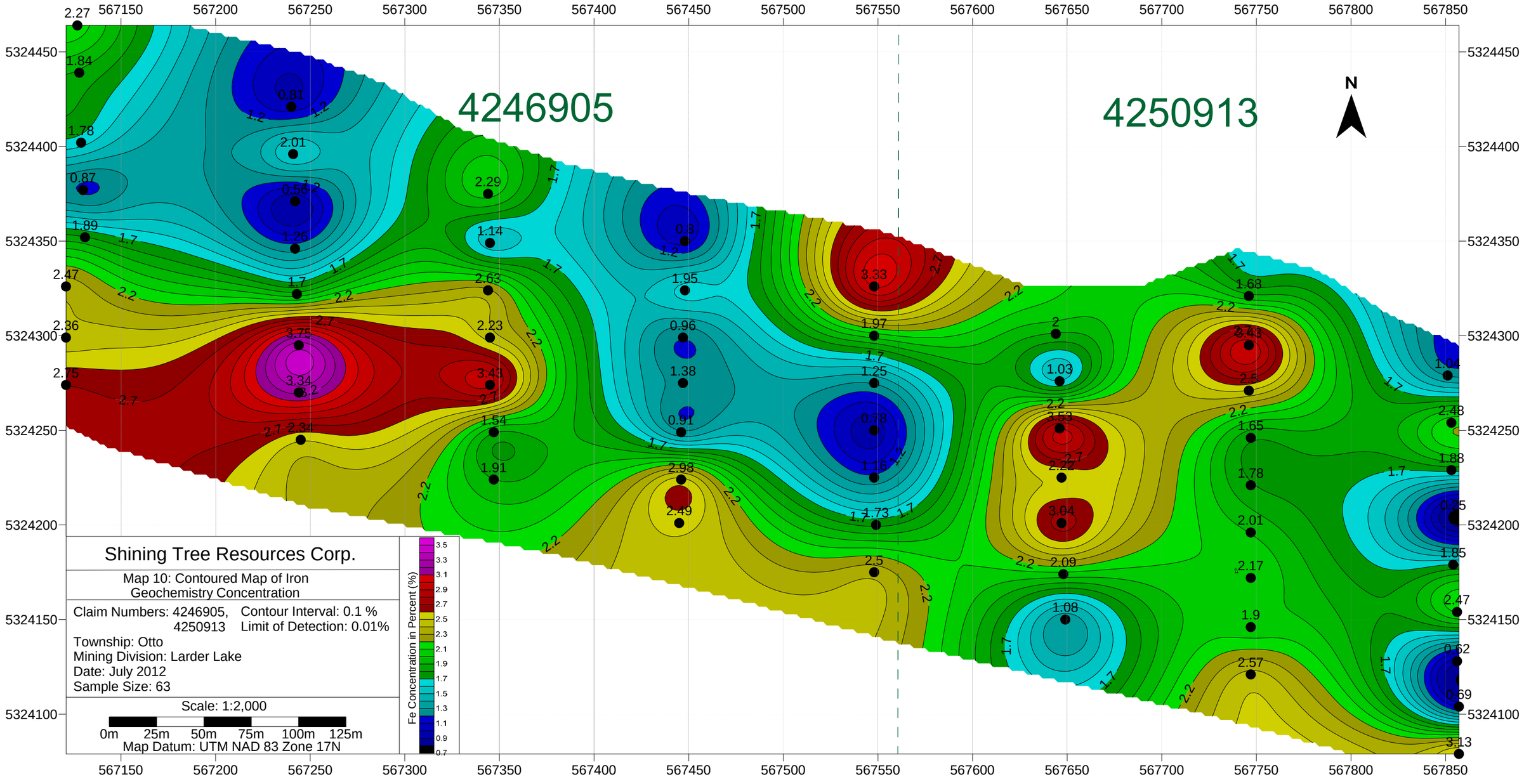

4246905
4250913
N
Shining Tree Resources Corp.
Map 5: Contoured Map of Gold Geochemistry Concentration
Claim Numbers: 4246905, 4250913
Contour Interval: 2 ppb
Limit of Detection: 1 ppb
Township: Otto
Mining Division: Larder Lake
Date: July 2012
Sample Size: 63
Scale: 1:2,000
0m 25m 50m 75m 100m 125m
Map Datum: UTM NAD 83 Zone 17N
Au Concentration in Parts per Billion (ppb)
567150 567200 567250 567300 567350 567400 567450 567500 567550 567600 567650 567700 567750 567800 567850
5324450 5324400 5324350 5324300 5324250 5324200 5324150 5324100

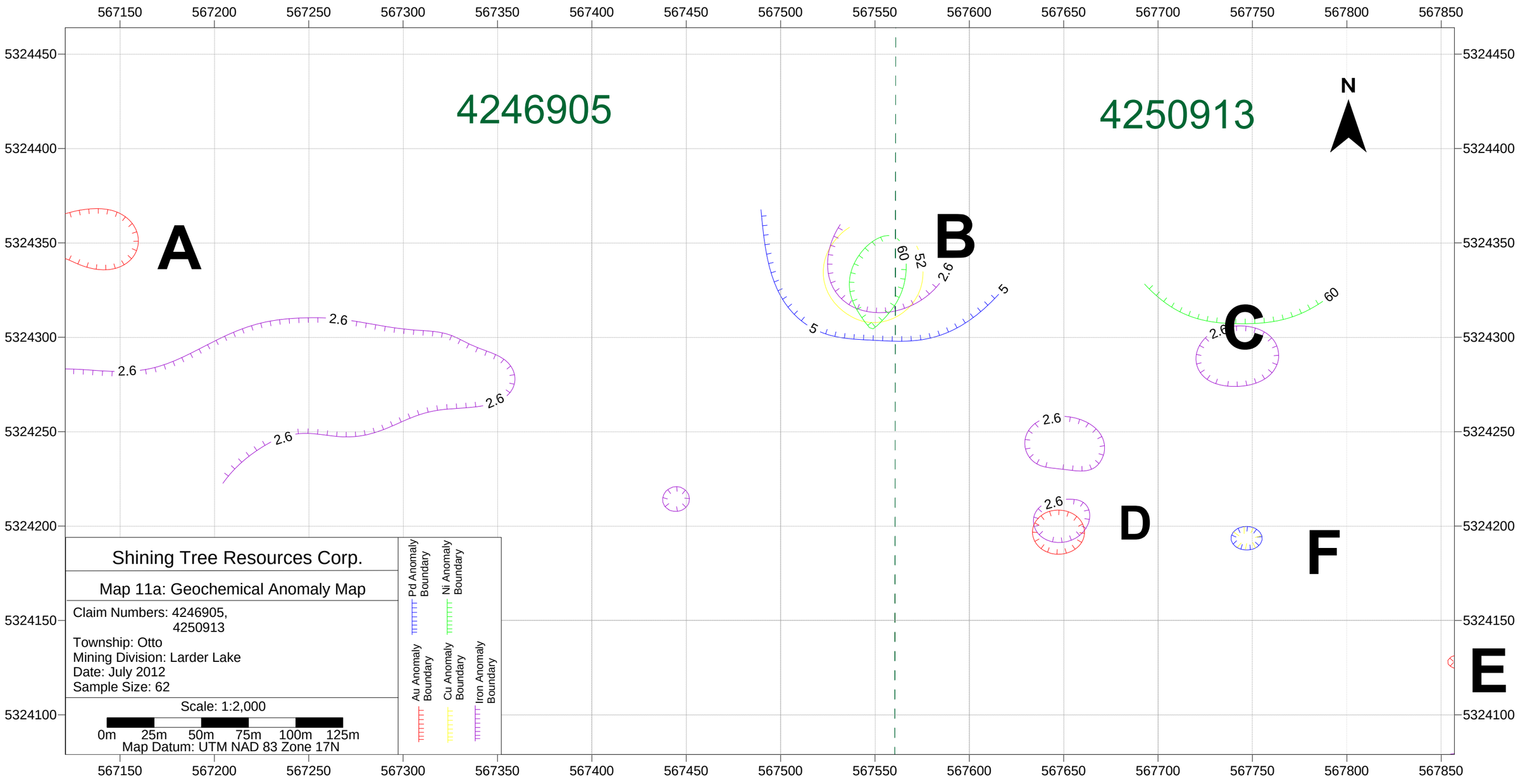

4246905
4250913
N
Shining Tree Resources Corp.
Map 6: Contoured Map of Palladium Geochemistry Concentration
Claim Numbers: 4246905, 4250913
Contour Interval: 0.5 ppb
Limit of Detection: 1 ppb
Township: Otto
Mining Division: Larder Lake
Date: July 2012
Sample Size: 63
Scale: 1:2,000
0m 25m 50m 75m 100m 125m
Map Datum: UTM NAD 83 Zone 17N
Pd Concentration in Parts per Billion (ppb)
9.5 9 8.5 8 7.5 7 6.5 6 5.5 5 4.5 4 3.5 3 2.5 2 1.5 1 0.5 0
567150 567200 567250 567300 567350 567400 567450 567500 567550 567600 567650 567700 567750 567800 567850
5324450 5324400 5324350 5324300 5324250 5324200 5324150 5324100

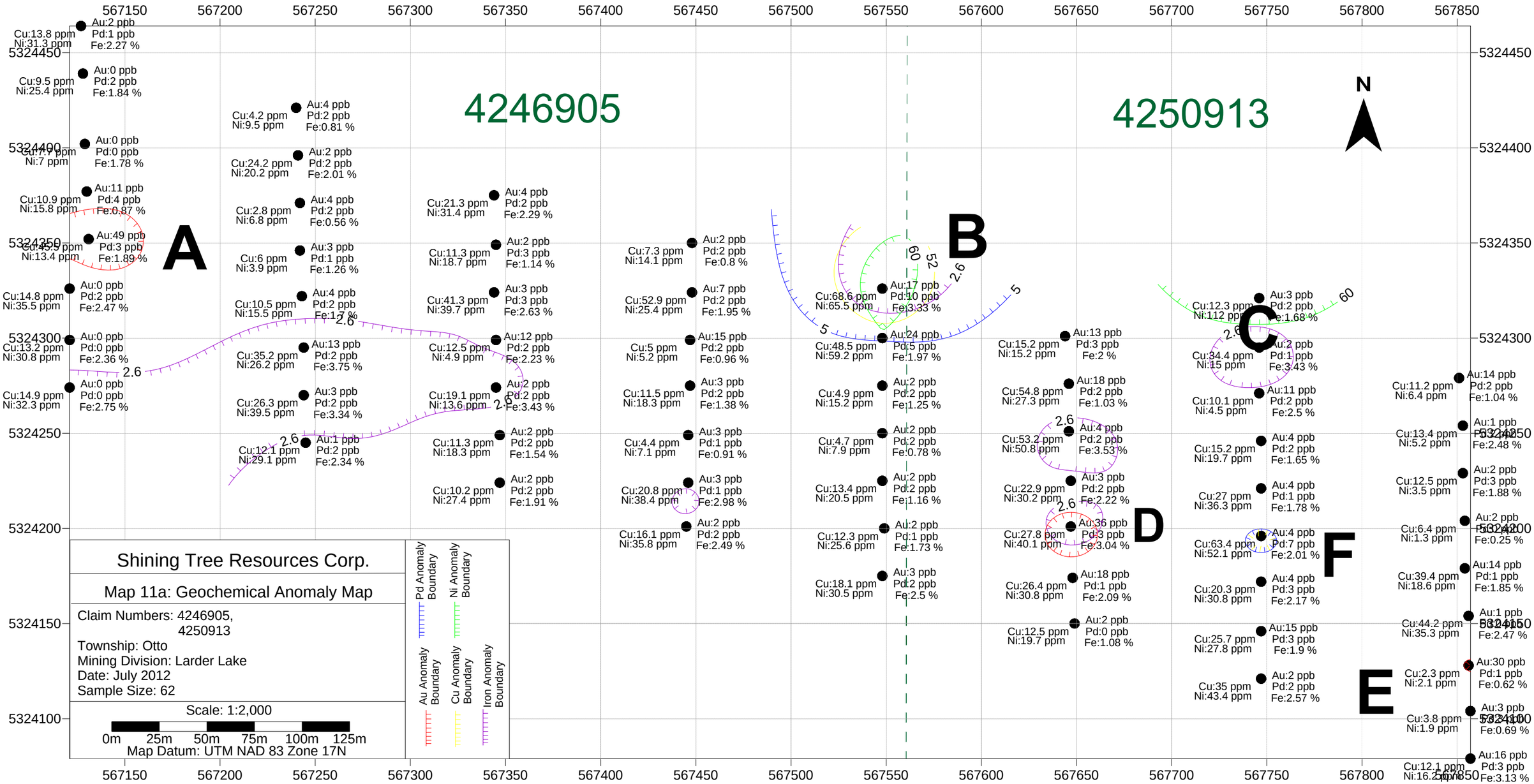

4246905
4250913
N
Shining Tree Resources Corp.
Map 7: Contoured Map of Copper Geochemistry Concentration
Claim Numbers: 4246905, 4250913
Contour Interval: 2 ppm
Limit of Detection: 0.5 ppm
Township: Otto
Mining Division: Larder Lake
Date: July 2012
Sample Size: 63
Scale: 1:2,000
0m 25m 50m 75m 100m 125m
Map Datum: UTM NAD 83 Zone 17N
Cu Concentration in Parts per Million (ppm)
64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4
567150 567200 567250 567300 567350 567400 567450 567500 567550 567600 567650 567700 567750 567800 567850
5324450 5324400 5324350 5324300 5324250 5324200 5324150 5324100


4246905
4250913
N
Shining Tree Resources Corp.
Map 8: Contoured Map of Zinc
Geochemistry Concentration
Claim Numbers: 4246905,
4250913
Contour Interval: 5 ppm
Limit of Detection: 0.5 ppm
Township: Otto
Mining Division: Larder Lake
Date: July 2012
Sample Size: 63
Scale: 1:2,000
0m 25m 50m 75m 100m 125m
Map Datum: UTM NAD 83 Zone 17N
Zn Concentration in Parts per Million (ppm)
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
567150
567200
567250
567300
567350
567400
567450
567500
567550
567600
567650
567700
567750
567800
567850
5324450
5324400
5324350
5324300
5324250
5324200
5324150
5324100


4246905
4250913
N
Shining Tree Resources Corp.
Map 9: Contoured Map of Nickel Geochemistry Concentration
Claim Numbers: 4246905, 4250913
Contour Interval: 5 ppm
Limit of Detection: 0.5 ppm
Township: Otto
Mining Division: Larder Lake
Date: July 2012
Sample Size: 63
Scale: 1:2,000
0m 25m 50m 75m 100m 125m
Map Datum: UTM NAD 83 Zone 17N
Ni Concentration in Parts per Million (ppm)
115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
567150 567200 567250 567300 567350 567400 567450 567500 567550 567600 567650 567700 567750 567800 567850
5324450 5324400 5324350 5324300 5324250 5324200 5324150 5324100


4246905
4250913
N
Shining Tree Resources Corp.
Map 10: Contoured Map of Iron Geochemistry Concentration
Claim Numbers: 4246905, 4250913
Contour Interval: 0.1 %
Limit of Detection: 0.01%
Township: Otto
Mining Division: Larder Lake
Date: July 2012
Sample Size: 63
Scale: 1:2,000
0m 25m 50m 75m 100m 125m
Map Datum: UTM NAD 83 Zone 17N
Fe Concentration in Percent (%)
3.5
3.3
3.1
2.9
2.7
2.5
2.3
2.1
1.9
1.7
1.5
1.3
1.1
0.9
0.7
567150
567200
567250
567300
567350
567400
567450
567500
567550
567600
567650
567700
567750
567800
567850
5324450
5324400
5324350
5324300
5324250
5324200
5324150
5324100


4246905
4250913
N
A
B
C
D
E
F
2.6
60
52
5
Shining Tree Resources Corp.
Map 11a: Geochemical Anomaly Map
Claim Numbers: 4246905,
4250913
Township: Otto
Mining Division: Larder Lake
Date: July 2012
Sample Size: 62
Scale: 1:2,000
0m 25m 50m 75m 100m 125m
Map Datum: UTM NAD 83 Zone 17N
Pd Anomaly Boundary
Ni Anomaly Boundary
Au Anomaly Boundary
Cu Anomaly Boundary
Iron Anomaly Boundary
567150 567200 567250 567300 567350 567400 567450 567500 567550 567600 567650 567700 567750 567800 567850
5324450 5324400 5324350 5324300 5324250 5324200 5324150 5324100


4246905
4250913
A
B
C
D
E
F
N
Au:2 ppb Pd:1 ppb Fe:2.27 %
Cu:13.8 ppm Ni:31.3 ppm
Au:0 ppb Pd:2 ppb Fe:1.84 %
Cu:9.5 ppm Ni:25.4 ppm
Au:0 ppb Pd:0 ppb Fe:1.78 %
Cu:7.7 ppm Ni:7 ppm
Au:11 ppb Pd:4 ppb Fe:0.87 %
Cu:10.9 ppm Ni:15.8 ppm
Au:49 ppb Pd:3 ppb Fe:1.89 %
Cu:45.9 ppm Ni:13.4 ppm
Au:0 ppb Pd:2 ppb Fe:2.47 %
Cu:14.8 ppm Ni:35.5 ppm
Au:0 ppb Pd:0 ppb Fe:2.36 %
Cu:13.2 ppm Ni:30.8 ppm
Au:0 ppb Pd:0 ppb Fe:2.75 %
Cu:14.9 ppm Ni:32.3 ppm
Au:4 ppb Pd:2 ppb Fe:0.81 %
Cu:4.2 ppm Ni:9.5 ppm
Au:2 ppb Pd:2 ppb Fe:2.01 %
Cu:24.2 ppm Ni:20.2 ppm
Au:4 ppb Pd:2 ppb Fe:0.56 %
Cu:2.8 ppm Ni:6.8 ppm
Au:3 ppb Pd:1 ppb Fe:1.26 %
Cu:6 ppm Ni:3.9 ppm
Au:4 ppb Pd:2 ppb Fe:1.17 %
Cu:10.5 ppm Ni:15.5 ppm
Au:13 ppb Pd:2 ppb Fe:3.75 %
Cu:35.2 ppm Ni:26.2 ppm
Au:3 ppb Pd:2 ppb Fe:3.34 %
Cu:26.3 ppm Ni:39.5 ppm
Au:1 ppb Pd:2 ppb Fe:2.34 %
Cu:12.1 ppm Ni:29.1 ppm
Au:4 ppb Pd:2 ppb Fe:2.29 %
Cu:21.3 ppm Ni:31.4 ppm
Au:2 ppb Pd:3 ppb Fe:1.14 %
Cu:11.3 ppm Ni:18.7 ppm
Au:3 ppb Pd:3 ppb Fe:2.63 %
Cu:41.3 ppm Ni:39.7 ppm
Au:12 ppb Pd:2 ppb Fe:2.23 %
Cu:12.5 ppm Ni:4.9 ppm
Au:2 ppb Pd:2 ppb Fe:3.43 %
Cu:19.1 ppm Ni:13.6 ppm
Au:2 ppb Pd:2 ppb Fe:1.54 %
Cu:11.3 ppm Ni:18.3 ppm
Au:2 ppb Pd:2 ppb Fe:1.91 %
Cu:10.2 ppm Ni:27.4 ppm
Au:2 ppb Pd:2 ppb Fe:0.8 %
Cu:7.3 ppm Ni:14.1 ppm
Au:7 ppb Pd:2 ppb Fe:1.95 %
Cu:52.9 ppm Ni:25.4 ppm
Au:15 ppb Pd:2 ppb Fe:0.96 %
Cu:5 ppm Ni:5.2 ppm
Au:3 ppb Pd:2 ppb Fe:1.38 %
Cu:11.5 ppm Ni:18.3 ppm
Au:3 ppb Pd:1 ppb Fe:0.91 %
Cu:4.4 ppm Ni:7.1 ppm
Au:3 ppb Pd:1 ppb Fe:2.98 %
Cu:20.8 ppm Ni:38.4 ppm
Au:2 ppb Pd:2 ppb Fe:2.49 %
Cu:16.1 ppm Ni:35.8 ppm
Au:17 ppb Pd:10 ppb Fe:3.33 %
Cu:68.6 ppm Ni:65.5 ppm
Au:24 ppb Pd:5 ppb Fe:1.97 %
Cu:48.5 ppm Ni:59.2 ppm
Au:2 ppb Pd:2 ppb Fe:1.25 %
Cu:4.9 ppm Ni:15.2 ppm
Au:2 ppb Pd:2 ppb Fe:0.78 %
Cu:4.7 ppm Ni:7.9 ppm
Au:2 ppb Pd:2 ppb Fe:1.16 %
Cu:13.4 ppm Ni:20.5 ppm
Au:2 ppb Pd:1 ppb Fe:1.73 %
Cu:12.3 ppm Ni:25.6 ppm
Au:3 ppb Pd:2 ppb Fe:2.5 %
Cu:18.1 ppm Ni:30.5 ppm
Au:13 ppb Pd:3 ppb Fe:2 %
Cu:15.2 ppm Ni:15.2 ppm
Au:18 ppb Pd:2 ppb Fe:1.03 %
Cu:54.8 ppm Ni:27.3 ppm
Au:4 ppb Pd:2 ppb Fe:3.53 %
Cu:53.2 ppm Ni:50.8 ppm
Au:3 ppb Pd:2 ppb Fe:2.22 %
Cu:22.9 ppm Ni:30.2 ppm
Au:36 ppb Pd:3 ppb Fe:3.04 %
Cu:27.8 ppm Ni:40.1 ppm
Au:18 ppb Pd:1 ppb Fe:2.09 %
Cu:26.4 ppm Ni:30.8 ppm
Au:2 ppb Pd:0 ppb Fe:1.08 %
Cu:12.5 ppm Ni:19.7 ppm
Au:3 ppb Pd:2 ppb Fe:1.68 %
Cu:12.3 ppm Ni:112 ppm
Au:2 ppb Pd:1 ppb Fe:3.43 %
Cu:34.4 ppm Ni:15 ppm
Au:11 ppb Pd:2 ppb Fe:2.5 %
Cu:10.1 ppm Ni:4.5 ppm
Au:4 ppb Pd:2 ppb Fe:1.65 %
Cu:15.2 ppm Ni:19.7 ppm
Au:4 ppb Pd:1 ppb Fe:1.78 %
Cu:27 ppm Ni:36.3 ppm
Au:4 ppb Pd:7 ppb Fe:2.01 %
Cu:63.4 ppm Ni:52.1 ppm
Au:4 ppb Pd:3 ppb Fe:2.17 %
Cu:20.3 ppm Ni:30.8 ppm
Au:15 ppb Pd:3 ppb Fe:1.9 %
Cu:25.7 ppm Ni:27.8 ppm
Au:2 ppb Pd:2 ppb Fe:2.57 %
Cu:35 ppm Ni:43.4 ppm
Au:14 ppb Pd:2 ppb Fe:1.04 %
Cu:11.2 ppm Ni:6.4 ppm
Au:1 ppb Pd:2 ppb Fe:2.48 %
Cu:13.4 ppm Ni:5.2 ppm
Au:2 ppb Pd:3 ppb Fe:1.88 %
Cu:12.5 ppm Ni:3.5 ppm
Au:2 ppb Pd:2 ppb Fe:0.25 %
Cu:6.4 ppm Ni:1.3 ppm
Au:14 ppb Pd:1 ppb Fe:1.85 %
Cu:39.4 ppm Ni:18.6 ppm
Au:1 ppb Pd:2 ppb Fe:2.47 %
Cu:44.2 ppm Ni:35.3 ppm
Au:30 ppb Pd:1 ppb Fe:0.62 %
Cu:2.3 ppm Ni:2.1 ppm
Au:3 ppb Pd:2 ppb Fe:0.69 %
Cu:3.8 ppm Ni:1.9 ppm
Au:16 ppb Pd:3 ppb Fe:3.13 %
Cu:12.1 ppm Ni:16.2 ppm
2.6
5
52
60
Shining Tree Resources Corp.
Map 11a: Geochemical Anomaly Map
Claim Numbers: 4246905, 4250913
Township: Otto
Mining Division: Larder Lake
Date: July 2012
Sample Size: 62
Scale: 1:2,000
0m 25m 50m 75m 100m 125m
Map Datum: UTM NAD 83 Zone 17N
Pd Anomaly Boundary
Ni Anomaly Boundary
Au Anomaly Boundary
Cu Anomaly Boundary
Iron Anomaly Boundary
567150
567200
567250
567300
567350
567400
567450
567500
567550
567600
567650
567700
567750
567800
567850
5324450
5324400
5324350
5324300
5324250
5324200
5324150
5324100