

## **2011 Prospecting and Sampling Program**

### **Neville-Potier Property**

Porcupine Mining Division

Neville and Potier Townships

NTS 41 O/09 and 41 P/12

February 17<sup>th</sup>, 2012

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## 1.0 Summary

The Neville-Potier Project is a large contiguous claim block consisting of 15,480 acres in Neville and Potier Townships. The claim block straddles the contact between the prospective Swayze Greenstone Belt and intermediate to felsic intrusive rocks to the north. Staking by Trelawney Mining and Exploration in August of 2011 adjoining the northern portion of the claim block, combined with their takeover of Augen Gold, places the Neville-Potier Project in a strategic position surrounded on two sides by Trelawney.

Clark Exploration Consulting Inc. was contracted in 2011 to conduct a prospecting, sampling, mapping and trenching program on the Neville-Potier Property by Newcastle Minerals. Work began in September of 2011 and continued through until December 11, 2011 when the program had to be halted due to inclement winter weather. A total of 74 person-days were spent on the property in total.

During the program both the granitic terrane to the north of the Swayze Greenstone Belt as well as the northeastern portion of the Swayze Greenstone Belt that roughly bisects the property were explored. The granitic terrane to the north was prospected primarily for gold while looking for mineralization similar to or potentially an 'extension' of Trelawney's Cote Lake deposit. The Swayze Greenstone Belt was prospected for gold as well as base metals and Cu-Ni-PGE mineralization as geologically warranted by the extensive suite of rocks found within the belt.

During the Fall program a total of 207 grab samples were taken from a variety of rock types and alteration styles and selectively assayed for gold, VMS and Cu-Ni-PGE. Anomalous gold values were encountered ranging from 0.6 grams per tonne down to 0.2 grams per tonne in a variety of lithologies all containing quartz veining or flooding. The highest gold value encountered in outcrop (0.6 grams per tonne gold) also contained 0.04 % copper and 0.1 % molybdenum. Two samples of siliceous felsic metavolcanics taken 73 meters apart assayed 0.30 % copper 0.17 % copper respectively. While mafic intrusive rocks were encountered on the property only anomalous platinum and palladium values were encountered. In addition to the samples taken in outcrop one sample taken from a large angular boulder returned 2.19 grams per tonne gold what has been described as a felsic volcanic rock. The prospecting crew felt as though (due to the large size, quantity, and angularity) the source of these boulders was proximal to where the boulders were found.

Due to the fact that the program had to be halted Clark Exploration is recommending completion of the mapping and sampling program along with a selection of prospective sites for either ground geophysics, trenching, or both. Results of that program would be followed up by diamond drill testing of prospective targets.

The Neville-Potier Property is a large land package that remains relatively underexplored with potential for many styles of economic mineralization.

## 2.0 Introduction

The Neville-Potier Project is a large contiguous claim block consisting of 15,480 acres in Neville and Potier Townships. The claim block straddles the contact between the prospective Swayze Greenstone Belt and intermediate to felsic intrusive rocks to the north. Staking by Trelawney Mining and Exploration in August of 2011 adjoining the northern portion of the claim block, combined with their takeover of Augen Gold, places the Neville-Potier Project in a strategic position surrounded on two sides by Trelawney.

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### 3.0 Property Description

The Neville-Potier Property consists of 26 contiguous mining claims containing 375 units and covering 6000 hectares (Table 1) in Neville and Potier townships, Porcupine Mining Division (Figures 1 and 2). All mining claims are currently under option Newcastle Minerals Ltd. Newcastle has met the option requirements to option 100% interest in the claim and are in the process of transferring the claims into their name.

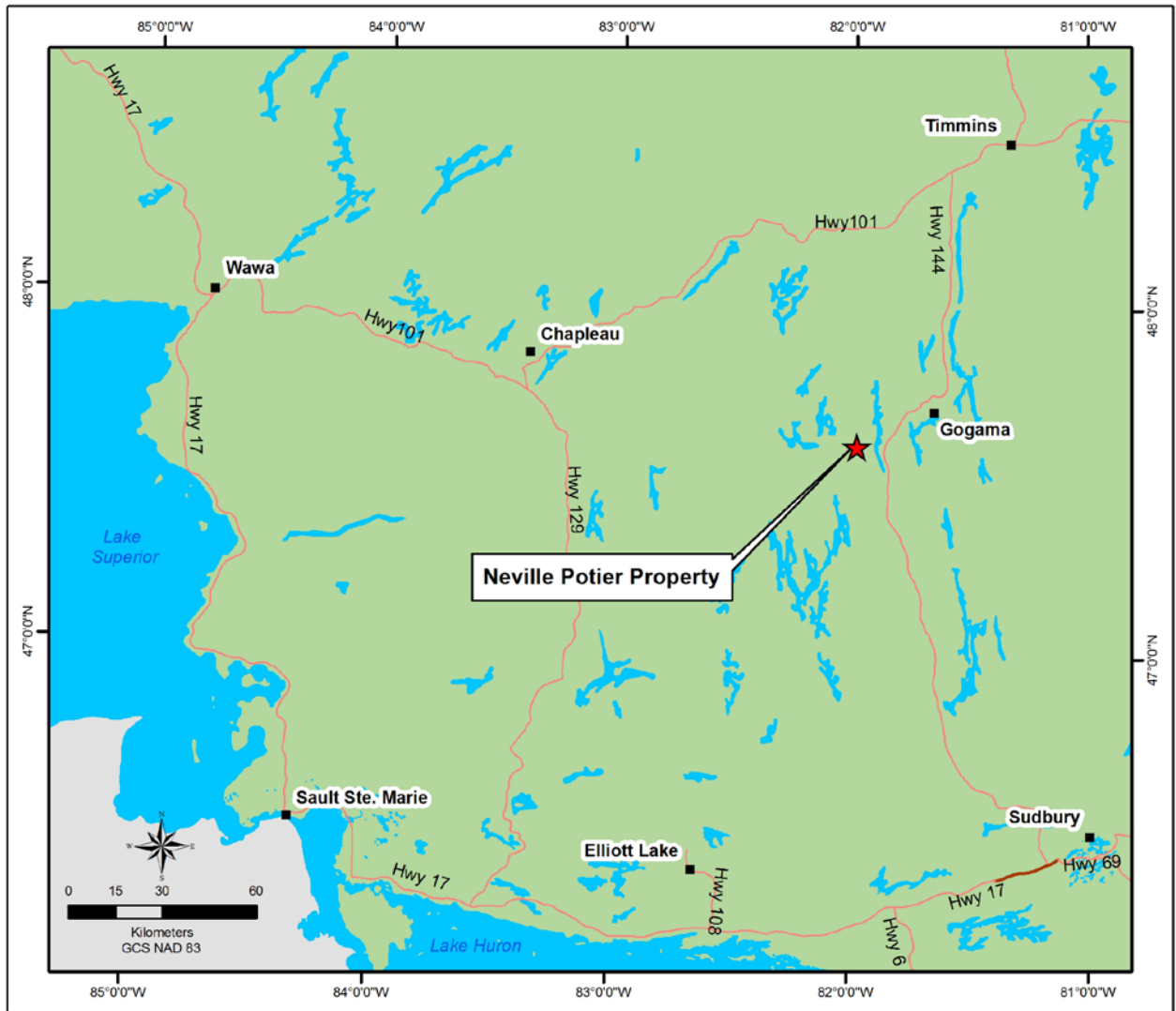


Figure 1: Property Location map.

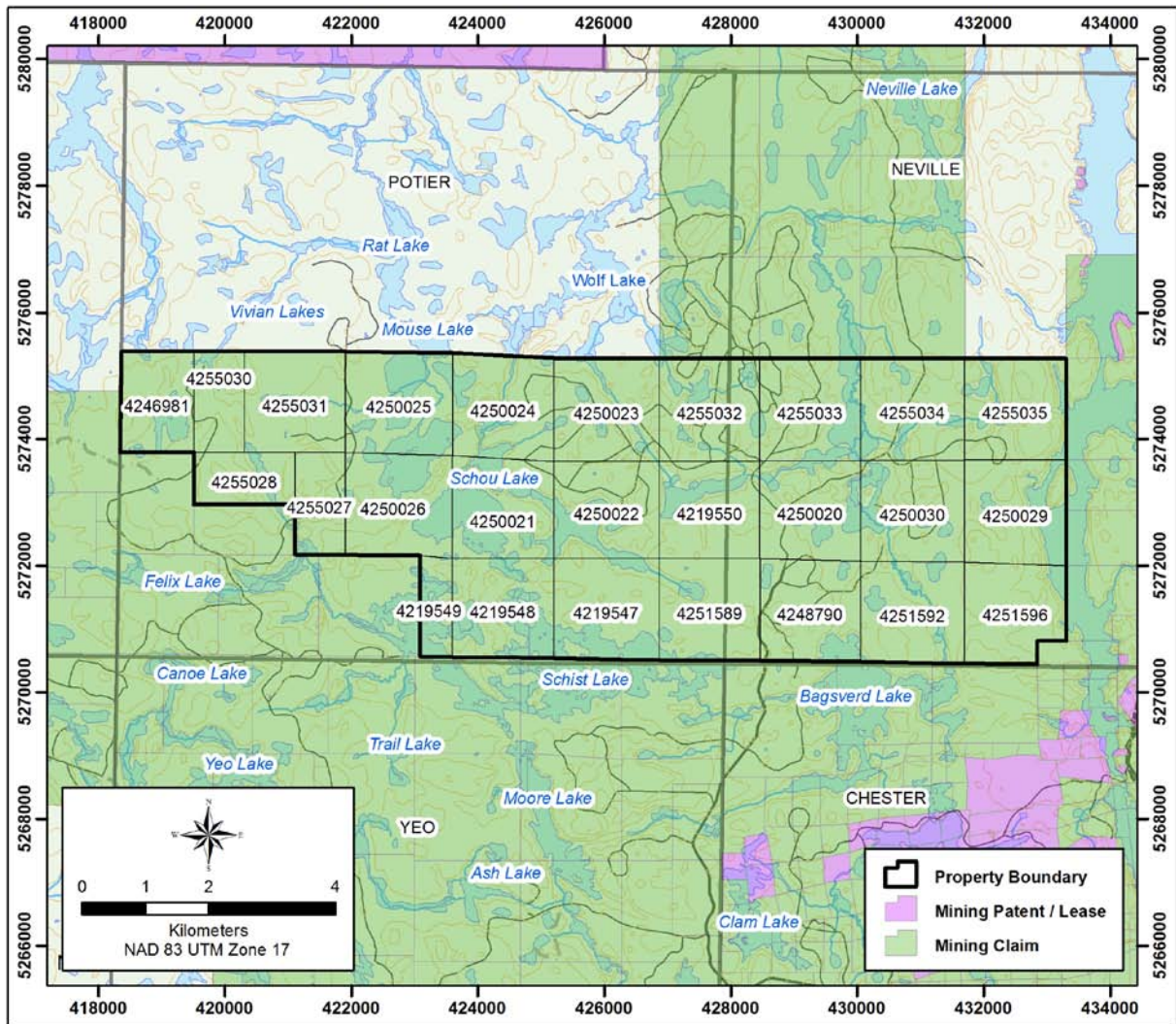


Figure 2: Neville-Potier Property claim map.

Table 1: Neville-Potier Property claim details.

Township /Area	Claim Number	Units	Recording Date	Claim Due Date	Status	Work Required	Total Applied	Total Reserve
POTIER	<u>4219547</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
POTIER	<u>4219548</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
POTIER	<u>4219549</u>	4	2010-Mar-16	2012-Mar-16	A	\$1,600	\$0	\$0
NEVILLE	<u>4219550</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
POTIER	<u>4246981</u>	12	2010-Mar-16	2012-Mar-16	A	\$4,800	\$0	\$0
NEVILLE	<u>4248790</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
NEVILLE	<u>4250020</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
POTIER	<u>4250021</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
POTIER	<u>4250022</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
POTIER	<u>4250023</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
POTIER	<u>4250024</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
POTIER	<u>4250025</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
POTIER	<u>4250026</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
NEVILLE	<u>4250028</u>	8	2010-Apr-06	2012-Apr-06	A	\$3,200	\$0	\$0
NEVILLE	<u>4250029</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
NEVILLE	<u>4250030</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
NEVILLE	<u>4251589</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
NEVILLE	<u>4251592</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
NEVILLE	<u>4251596</u>	15	2010-Mar-16	2012-Mar-16	A	\$6,000	\$0	\$0
POTIER	<u>4255027</u>	8	2010-Mar-16	2012-Mar-16	A	\$3,200	\$0	\$0
POTIER	<u>4255030</u>	8	2010-Mar-16	2012-Mar-16	A	\$3,200	\$0	\$0
POTIER	<u>4255031</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
NEVILLE	<u>4255032</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
NEVILLE	<u>4255033</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
NEVILLE	<u>4255034</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0
NEVILLE	<u>4255035</u>	16	2010-Mar-16	2012-Mar-16	A	\$6,400	\$0	\$0



### **3.1 Location and Access**

The Neville-Potier Property is situated in the Porcupine Mining Division, with the claims being located in Neville and Potier townships on NTS sheets 41 O/09 and 41 P/12. The property is located approximately 110 kilometres southwest of Timmins, Ontario, 140 kilometres northwest of Sudbury, Ontario and 27 kilometres southwest of Gogama, Ontario. The cities of Sudbury (population 155,000) and Timmins (population 43,000) both have support services, equipment and skilled labour for both the mineral exploration and mining industry. Rail, national highway, and airport services are also available in both cities. out

## 4.0 Regional Geology

The Neville-Potier Project lies within a belt of metavolcanic rocks which make up the lower part of the north limb of the Swayze Syncline (Figure 3). This part of the Syncline consists mainly of sheared tholeiitic basaltic flows of Archean (early Precambrian) ages, which are mainly fine grained but contain massive, medium to coarse grained sections. Locally, the strike of the flows is reported as west (290), and the dip is steep and to the south. Several belts of intermediate to felsic pyroclastics, tuffs and cherts occur concordantly within the mafic metavolcanics.

The stratigraphically overlying clastic and chemical metasediments of the inner part of the syncline are found to the south of the properties and actually underlie the southwest corner of the south Huffman block. The regional granitic plutonic rocks lie in contact with the metavolcanics along a line striking northwest (parallel to these formations).

A large fault zone striking west-northwest crosses the western half of Potier. The east side of the break has been displaced northward for about 750 meters. This fault belongs to the same set as the "Jerome Fault", which lies about 4 kilometers to the west, and is considered to have much bearing on the localization of the gold deposits at the Jerome Mine.

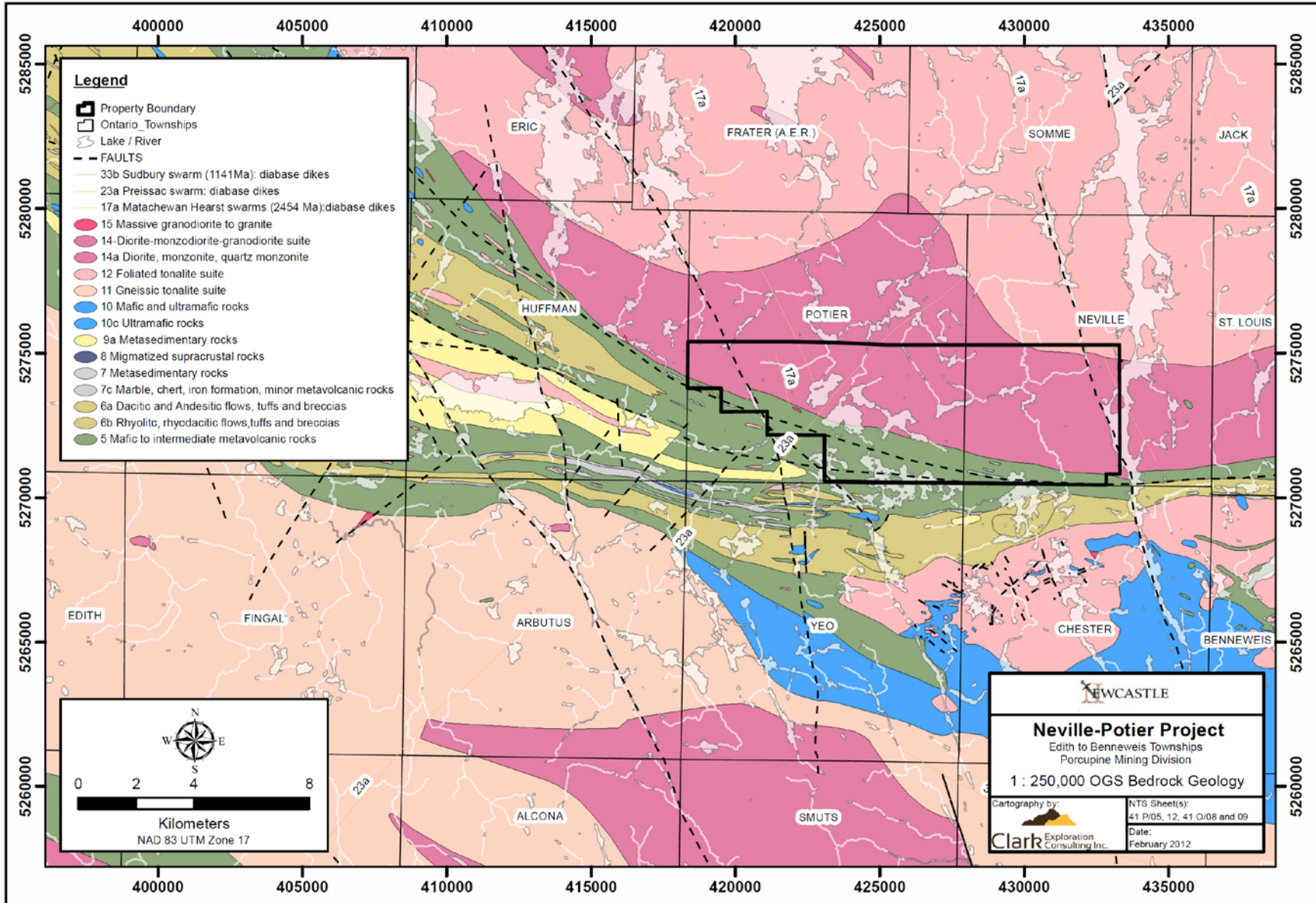


Figure 3: Regional Geology

## 5.0 Exploration History

Caution should be taken when relying on this synopsis of exploration for a complete recap of exploration on the property. These assessment files and subsequent calculations of amount of the file that is found on the property is taken from AFRI polygons published by the MNDM in roughly 2004. An online assessment search was also performed but in discussion with various people from the MNDM that database is also not up to date as numerous recent reports (2005 plus) have not yet made it online.

A thorough review of historical assessment work should be made by physically searching the archives on a particular properties NTS sheets in either the local district MNDM office of which the property resides or at the Geoscience Assessment Office in Sudbury, Ontario where duplicate copies of all mining division assessment reports are kept.

### 1950 (AFRI# 41O09SE0063)

B. Arnott created a geological map of a group of 13 claims in the area of Three Duck Lake. Line cutting was also performed. The overall purpose of the field program was to acquire an overalls geological setting of the area that will aid with future operation and consultation.

***\*\*7% on current property. Located near the southwest corner of the current Neville-Potier Property and directly north of Trail Lake.***

### 1958 (AFRI# 41O09SE9018)

Three Duck Lake Syndicate conducted a diamond drilling program where they drilled 2 holes for a total of 617 feet. The most common intersections were schist and greenstone.

***\*\*this property is located 100% on the current Neville-Potier Property, slightly north of Schist Lake.***

### 1958 (AFRI# 41P12SW0137)

Three Duck Lake Syndicate conducted a diamond drill program where they drilled 2 holes for a total of 264.5 feet. The most common intersections were various forms of pyrite and greenstone.

***\*\*1% on current property. Located on the western portion of Schist Lake.***

### 1970 (AFRI# 41O09SE0102)

Siscoe Metals performed geological and geochemical surveys on their 22 claim property in Potier Township. 1096 soil samples were collected. A more detailed sampling program was also carried out along with prospecting and geological mapping. The program lacked significant results although some high copper readings were detected in the soil samples. These high copper values are thought to be caused by zones containing chalcopyrite.

**\*\* 65% on Current property. This property is located on the southwest portion of the current property to the west of Schou Lake.**

### **1971 (AFRI# 41O09SE0044)**

Siscoe Metals performed an induced polarization and resistivity survey on their Triduc Property in Potier Township. The grid is primarily underlain by amphibolites that are derived from mafic volcanics and a large granitic mass cuts through the northeastern corner. At the greenstone granite contact there is a thin band of magnetite-silica iron formation. The purpose of these surveys was to search for metallic mineralization. Generally, the results indicate a few definite anomalies that are not strong enough to indicate any extensive disseminated deposits or a large concentration.

**\*\*100% on current Neville Potier Property and located just east of Schou Lake.**

### **1979 (AFRI# 41O09SE0061)**

Cominco Ltd. conducted a 1 month field mapping program. There is evidence that most rocks in the area are volcanic and for the most part pyroclastic, but some flows are also present. Two areas were found to contain sulphide rich iron formations.

**\*\*The property is only 1% on the current Neville-Potier Property. It is located at the southwest corner of the current Neville-Potier Property and northeast of Yeo Lake.**

### **1979 (AFRI# 41P12SW0136)**

Cominco Ltd. performed a program consisting of geological mapping, magnetometer survey and rock sampling. The purpose of the geological mapping and the magnetometer survey was to delineate a band of iron formation. The iron formation is traceable across most of the property. The results revealed no significant Au concentrations. Much of the iron formation is under Schist Lake and only drilling would be able to test for gold potential.

**\*\*7% on current Neville-Potier Property. It is located mostly on Schist Lake.**

### **1980 (AFRI# 41P12SW0083)**

Andersen Exploration and Associates conducted a program consisting of an airborne magnetic survey, gamma-ray spectrometer survey, bulldozing, stripping, and sampling. The results indicated that the areas of higher magnetic may indicate the presence of mineralized sediments. Results are promising but further field work is necessary in anomalous zones.

**\*\*1% on current Property. Large area stretching from Schist Lake in the north to Benneweis Lake in the east and Three Duck Lake in the south.**

### **1980 (AFRI# 41O09NW9161)**

Hargor Resources Inc. conducted a helicopter geophysical survey covering a portion of the property.

### **1980 (AFRI# 41O09SE0058)**

Cominco Ltd. conducted a program consisting of horizontal loop EM and magnetic surveys on their Asp Property. The results of the horizontal loop survey indicate the presence of a long formational conductive feature which has been confirmed as an iron formation through geological mapping. The formation, in general has a moderate to strong conductivity. Overall, all horizons detected look promising.

***\*\*1% on current property. It is located to the west of Schist Lake.***

#### **1981 (AFRI# 41P12SW0071)**

Murgold Resources Ltd. conducted a VLF-EM survey. All of the anomalous zones outlined by the survey have potential for containing valuable mineralization and should be further evaluated by soil geochemical surveys, trenching, and drilling with focus being analysis for copper and gold.

***\*\*the property is less than 1% on the current Neville-Potier Property. It is located on the southwest shore of Mesomikenda Lake at the southeast corner of the current property.***

#### **1983 (AFRI# 41P12SW0002)**

Murgold Resources Inc. conducted a review of the gold prospects in their Chester, Benneweis, and St.Louis Townships Property. The review concluded that there are 2 zones to be considered as a potential development of a viable gold deposit. Further investigation through diamond drilling is recommended.

***\*\*Less than 1% on current property. This property covers a large area to the southeast of the current property.***

#### **1984 (AFRI# 41O09SE0009)**

Hargor Resources In. performed a Electromagnetic and magnetometer survey on their Neville-Potier and Huffman Township Property. The geophysical results indicate at least two anomalous areas on the property which will be the highest priority for future field exploration.

***\*\*60% on current Property. It is located to the west of the current property and to the east of Huffman Lake.***

#### **1985 (AFRI# 41O09SE0042)**

Hargor Resources Inc. conducted a diamond drill program consisting of 2 holes for a total of 800 feet on their Potier township property with the purpose being to test the potential of the iron formation at depth. Results show two zones of iron formation being intersected in both drill holes. Gold and silver assays returned weak results and no gold concentrations were intersected. Results indicate that no further work be performed of this property.

***\*\*97% on current property. It is located at the western edge of the current property.***

#### **1985 (AFRI# 41P12SE0507)**

Blue Falcon Mines Ltd. performed an airborne magnetic and VLF-EM survey in the Swayze syncline area to determine areas that are both anomalously conductive and magnetic to aid with geological mapping. Results

indicate that a number of new contacts and faults were found, as well as a number of VLF-EM conductor axes that warrant further investigation.

***\*\*13% on current property. This property covers a large area stretching from Schou Lake in the north to Three Duck Lake in the south and Errington Lake in the east to Yeo Lake in the west.***

### **1986 (AFRI# 41P12SW8506)**

Blue Falcon Mines Ltd. performed an airborne magnetic and VLF-EM survey in the Swayze Syncline area.

***\*\*This seems to be an identical report to the one above, but the AFRI polygon boundary is different. The two reports to follow this one are also very similar, the wording varies slightly.***

### **1988 (AFRI# 41P12SW0032)**

Seaway Base Metals Ltd. performed an airborne magnetic and VLF-EM Survey. Results indicate that new contact and faults were found. Also, a number of VLF-EM conductor axes were discovered and appear to be associated with structural origins.

***\*\*12% on current property. It is located on and around Bagsverd Lake.***

### **1990 (AFRI# 41P12SE0520)**

Blue Falcon Mines Ltd. conducted a high sensitivity magnetic and VLF-EM airborne survey. The data is consistent with known geology. Numerous VLF-EM conductor axes were found and for the most part are associated with structural areas and a few appear to be stratabound and warrant further ground investigation.

***\*\*stretches from Schist Lake in the north to Clam Lake in the southeast.***

## 6.0 2011 Prospecting and Sampling Program

Clark Exploration Consulting Inc. was contracted in 2011 to conduct a prospecting, sampling, mapping and trenching program on the Neville-Potier Property by Newcastle Minerals. Work began in September of 2011 and continued through until December 11, 2011 when the program had to be halted due to inclement winter weather. A total of 74 person-days were spent on the property in total.

During the program both the granitic terrane to the north of the Swayze Greenstone Belt as well as the northeastern portion of the Swayze Greenstone Belt that roughly bisects the property were explored. The granitic terrane to the north was prospected primarily for gold while looking for mineralization similar to or potentially an 'extension' of Trelawney's Cote Lake deposit. The Swayze Greenstone Belt was prospected for gold as well as base metals and Cu-Ni-PGE mineralization as geologically warranted by the extensive suite of rocks found within the belt.

During the Fall program a total of 207 grab samples were taken from a variety of rock types and alteration styles and selectively assayed for gold, VMS and Cu-Ni-PGE. Anomalous gold values were encountered ranging from 0.6 grams per tonne down to 0.2 grams per tonne in a variety of lithologies all containing quartz veining or flooding. The highest gold value encountered in outcrop (0.6 grams per tonne gold) also contained 0.04 % copper and 0.1 % molybdenum. Two samples of siliceous felsic metavolcanics taken 73 meters apart assayed 0.30 % copper 0.17 % copper respectively. While mafic intrusive rocks were encountered on the property only anomalous platinum and palladium values were encountered. In addition to the samples taken in outcrop one sample taken from a large angular boulder returned 2.19 grams per tonne gold what has been described as a felsic volcanic rock. The prospecting crew felt as though (due to the large size, quantity, and angularity) the source of these boulders was proximal to where the boulders were found.

A list of personnel that worked on the project can be found in Appendix A. Sample descriptions and locations can be found in Appendix B with the assay certificates in Appendix C. Note that there are samples in the assay certificates that will not have any information in this report. This is due to the fact that they are samples taken from off of this property.

Appendix D contains two maps (for all field maps the property was split into east and west halves) that distinguish between outcrop and float samples. This is due to the fact that the highest gold value was obtained from L072860 which was a large angular float. Appendices E and F each contain 6 maps which are essentially the same with the exception of underlay. All have sample locations for east and west sheets, an east and west sheets underlain by 1:50,000 topography, and and east and west sheet underlain by 1:250,000 OGS Bedrock Geology.



## 7.0 Conclusion and Recommendations

The continuation of the 2011 prospecting program should focus on areas coincident with anomalous gold and copper values looking for both gold and VMS mineralization. The existing GIS compilation should be taken one step further with the georeferencing of historical geophysical maps to see how they overlay with the mineralization discovered this past season. This should be followed up with a visit to the Timmins Regional Geologist's Office to do a complete search of historical and recent - perhaps post-2004 - assessment work prior to the 2012 exploration program. Focus this program should be shifted towards the geological investigation of mineralization however boot and hammer prospecting on this vast land package is still warranted.

Areas of interest to be visited include (but should not be limited to):

- Area of 2.19 g/t gold sample from angular float to determine ice direction and attempt to locate more outcrop and / or float up ice. Depending on success scouting for a ground geophysical program (mag and IP) to determine when it could be conducted should be carried out. This would be followed up by mechanical trenching and / or diamond drilling of anomalies.
- Anomalous gold samples hosted in Banded Iron Formation found in historical trenches (samples Z079522 and 23) need to be investigated further. A decision should quickly be made as to whether or not mechanical cleaning out (re-trenching and washing) of historical trenches is warranted. Interpretation of historical geophysics would lead to further target areas for trenching proximal to this zone.
- Sample Z079718 returned 0.223 g/t gold in a relatively unaltered mafic meta-volcanic sample with trace sulfides located on a ridge in an area indicated on OGS maps as being a E-W trending fault area. This area needs to be looked at further to determine the extent of the mineralization perhaps with channel or chip sampling in hopes of a wide with of low grade mineralization (or possible zones of increased gold values).
- Sample Z079583 returned 0.603 g/t gold, 0.04 % Cu, and 0.1% Mo in a quartz-vein hosted in mafic meta-volcanics. This showing is on an island and wasn't revisited during the second phase of this program. With molybdenum being a good indicator element for gold mineralization in the area as well in some gold deposits (i.e. Hemlo) this showing also warrants further investigation. Perhaps a small program of high-density lake sediment samples is warranted to identify prospective area's along the shoreline (more work required before committing to this).
- Samples Z072844 and 45 returned copper values of 0.3 % and 0.17 % respectively. Sample 44 also returned 0.9 % Mn and is described as an intermediate volcanic that is very silicious (felsic volcanic?) containing carbonate, cpy, moly, magnetite and is a cherty horizon. Sample 45 is roughly 75 meters away and is described as a felsic volcanic. This area should be looked at with

interest as the potential for VMS style mineralization seems to exist within this portion of the Swayze Belt.

72 person-days spent on a project of this size turned up promising results. It is the authors impression that this property has the potential to host economic mineralization of more than one type.

Due to the fact that the program had to be halted Clark Exploration is recommending completion of the mapping and sampling program along with a selection of prospective sites for either ground geophysics, trenching, or both. Results of that program would be followed up by diamond drill testing of prospective targets. A minimum budget of \$75,000 CAD would be required to follow up the 5 targets listed above with mapping, sampling, and perhaps trenching as well as conduct further prospecting proximal to the areas of interest.

## Appendices

**Appendix A**  
***List of Personnel***



Neville-Potier Property



Ray Koivisto, Prospector

Shawna Cross, Prospector

Curniss McGoldrick, Junior Geologist

Christian Carl, Junior Geologist

## **Appendix B**

### ***Sample Descriptions***

Sample_ID	Sampler	Easting	Northing	Rock_Type	Sample_Description	Sulfides	Magnetic
L072801	RK/SC	428912	5270473	FV-IV	rhyodacite, slightly linear features	> 1% FNG	no
L072802	RK/SC	428925	5270460	Gabbro	mesocratic	>1%	yes
L072803	RK/SC	429036	5270486	IV	gossanous, folded (?)	1%	no
L072804	RK/SC	429031	5270571	FV-IV	carb	trace	no
L072805	RK/SC	428861	5270837	Gabbro	leucocratic	>1%	yes
L072806	RK/SC	429406	5271099	Gabbro	leucocratic, minor potassic feldspar	>1%	no
L072807	RK/SC	429396	5271115	Gabbro	leucocratic, w/net nexturing	>1%	yes
L072808	RK/SC	429439	5271071	QV	cpy/galena, 20 cm wide, boudinage, multiple minor QV in area		no
L072809	RK/SC	429549	5271204	Gabbro	leucocratic	>1%	yes
L072810	RK/SC	428443	5270845	QV	w/carb	>1%	no
L072811	RK/SC	428446	5270833	QV	white quartz	trace	no
L072812	RK/SC	428440	5270847	QV	white quartz	trace	no
L072813	RK/SC	428429	5270864	QV	in MV, py-galena-zinc		no
L072814	RK/SC	428287	5270459	Gabbro	FNG, melanocratic	2-3%	no
L072815	RK/SC	428179	5270458	Gabbro	VFNG, melanocratic	> trace	no
L072816	RK/SC	427936	5270656	FV	minor fabric	.1% fine	no
L072817	RK/SC	427936	5270681	Gabbro	VFNG, diabase (?)		weak
L072818	RK/SC	427929	5270721	QV	in calcite veining, in sheared MV		no
L072819	RK/SC	427985	5270779	IV	minor calcite veining	1-2%	no
L072820	RK/SC	428210	5270647	IV	coarse (?), sheared, gossanous	1-2% fine	no
L072821	RK/SC	428508	5270734	FV	siliceous, fluidic, stylonitic	1%	no
L072822	RK/SC	421695	5272126	FV	sheared, minor QV	1-2%	no
L072823	RK/SC	421681	5272237	FV	sheared, gossanous, minor QV	1%	no
L072824	RK/SC	421706	5272254	Gabbro	green feldspar porphritic	1-2%	yes
L072825	RK/SC	421725	5272615	IV	strong fabric (w/ 20% QV), trace cpy	>1%	no
L072826	RK/SC	421729	5272621	QV	white quartz	trace	no
L072827	RK/SC	422101	5272123	Gabbro	leucocratic, light coloured feldspars, trace cpy	>1%	yes
L072828	RK/SC	422151	5272121	Gabbro	leucocratic		weak
L072829	RK/SC	422311	5272822	MV (?)	sed (?), sheared, gossanous	1%	no
L072830	RK/SC	422315	5272749	sed (?)	sheared, minor QV	1%	no
L072831	RK/SC	422291	5272699	FV	fabric, minor Q	>3%	yes
L072832	RK/SC	422288	5272698	UM	VFNG, green feldspar porphritic	>1%	yes
L072833	RK/SC	422261	5272830	QV	sheared MV, quartz is sugary and rusty	trace	no
L072834	RK/SC	422106	5272830	QV	sugary Q with chlorite	>1%	no
L072835	RK/SC	421928	5272718	IV-MV	sheared, minor chlorite, minor QV	>1%	yes
L072836	RK/SC	425113	5271708	IV	chlorite, carb, calcite, strong fabric, minor Q	trace	no
L072837	RK/SC	425217	5271755	Intermediate dike	dark looking granite	trace	yes
L072838	RK/SC	425272	5271325	IV	sheared, w/ semi massive pyrite seams	5%	no
L072839	RK/SC	425305	5271822	IV	sheared, 20% QV, potassic alteration	3%	no
L072840	RK/SC	425305	5271821	IV	linear fabric	5%	no
L072841	RK/SC	425562	5271198	QP	sheared, carb, > 25 m wide	trace	no
L072842	RK/SC	425503	5271283	QV	sheared, QP/ volcanics, 2% sulph on QV, boudinage	2%	no
L072843	RK/SC	425438	5271249	IV	major carb, linear features	2%	no
L072844	RK/SC	425434	5271242	IV	fabric, very siliceous, carb, cpy, moly, magnetite, cherty horizon	5%	strong
L072845	RK/SC	425400	5271307	FV (?)/ Sed (?)	brecciated, minor QV, malachite stain	3%	no
L072846	RK/SC	425398	5271312	FV (?)/ Sed (?)	brecciated, w/Q podding, trace malachite stain	1%	no
L072847	RK/SC	427590	5271526	IV	sheared gabbro (?), fabric, chlorite	trace	no

Sample_ID	Sampler	Easting	Northing	Rock_Type	Sample_Description	Sulfides	Magnetic
L072848	RK/SC	427731	5270730	IV	fabric, monor QV, carb		no
L072849	RK/SC	428332	5270480	Gabbro	mesocratic, FNG		yes
L072850	RK/SC	428500	5270491	Q	white and blue Q	trace	
L072851	RK/SC	420956	5273293	MV	fabric, chlorite	>1%	no
L072852	RK/SC	420668	5273668	FV-IV	angular float, linear fabric	3-5%	no
L072853	RK/SC	421024	5273469	Gabbro	leucocratic	>1%	yes
L072854	RK/SC	421588	5273319	MV (?)	AMP, linear features, gossanous		weak
L072855	RK/SC	422711	5272195	QV	in sheared FV, carb	trace	no
L072856	RK/SC	422699	5272194	FV	w/ minor QV, carb		no
L072857	RK/SC	423096	5272065	FV-IV	fabric, calcite		no
L072858	RK/SC	423100	5272047	FV-IV	fabric, calcite, minor Q	1%	no
L072859	RK/SC	422892	5272652	Gabbro	melanocratic, fabric	>1%	no
L072860	RK/SC	425419	5271271	FV	Local angular float, greenish tinge, folding, minor Q, calcite	3%	no
L072861	RK/SC	425420	5271275	FV	Local angular float, linear features, dense, MQ, silicious	1%	no
L072862	RK/SC	425430	5271271	QCV	Local angular float, chlorite	trace	no
L072863	RK/SC	425410	5271274	FV	Local angular float, 30% Q, folded	1%	no
L072864	RK/SC	425390	5271304	UM	Intrusive, diabase (?), VFNG, trace CPY		strong
L072865	RK/SC	425386	5271302	QV	w/chlorite (30%), trace CPY		no
L072866	RK/SC	425447	5271347	FV	linear features, trace CPY	>1%	no
L072867	RK/SC	425443	5271347	FV	very silicious	>1%	no
L072868	RK/SC	425426	5271233	SED	linear features, carb	1%	no
L072869	RK/SC	425628	5271104	IV	calcite	>1%	no
L072870	RK/SC	421801	5273233	IV	sed (?)	2%	no
L072871	RK/SC	421930	5274420	grano diorite	sed (?)	2%	no
L072872	RK/SC	419401	5273445	QV	chlorite, 8cm wide, in FV	trace	no
L072873	RK/SC	419481	5273526	granite	FNG, sheared, intercalated	2% w/volcanics	no
L072874	RK/SC	419477	5273525	Volcanics	intercalated, w/granite, FNG, sheared	>1%	no
Z079501	RK/SC	421763	5273041	gabbro	leucocratic, 25 M beside is a sheared MV @ 105 deg	1%	yes
Z079502	RK/SC	421783	5273043	Mafic Volcanic	w/ minor QV	2-3%	
Z079503	RK/SC	428570	5271393	IV/MV	sheared, contact w/granite 10 M North 105 deg strike/v dip	2%	
Z079504	RK/SC	428549	5270595	IM	graphite ?, sheared, AMP	1%	yes
Z079505	RK/SC	428530	5270534	volcanics	SMS, minor irreg, QV, graphitic, gossanous/float one of many		yes
Z079506	RK/SC	428558	5270647	gabbro	leucocratic, contact w/ volcanics-10 m North	1%	yes
Z079507	RK/SC	428498	5270755	QV	mica light, volcanics		
Z079508	RK/SC	428434	5270964	FV	fabric, strike 100 deg, v dip	1%	
Z079509	RK/SC	428418	5270930	Semi massive sulphide	graphite, float ang, roadside, low ground		
Z079510	RK/SC	429007	5273066	granodiorite	minor linear features		
Z079511	RK/SC	429171	5273136	gabbro	mesocratic	1-2%	yes
Z079512	RK/SC	429179	5273137	gabbro	more fabric than 511	>1%	
Z079513	RK/SC	429360	5273239	gabbro	dike less than 50 M wide (granite both sides)	1%	yes
Z079514	RK/SC	431030	5275213	granite	CGN, hornblende		
Z079515	RK/SC	430907	5274791	granite	pegmatitic in areas	trace	
Z079516	RK/SC	430992	5274898	Ultra Mafic Dike	1/2 M wide, strike 165 deg, dip v, picritic looking, spinefex texture, VFG	>trace	
Z079517	RK/SC	428807	5272806	granite	fractured		
Z079518	RK/SC	419749	5273185	MV	AMP, spinefex, linear features to sulphides, gossanus	2%	



Sample_ID	Sampler	Easting	Northing	Rock_Type	Sample_Description	Sulfides	Magnetic
Z079519	RK/SC	419804	5273318	IV	layered, PO, silicification		yes
Z079520	RK/SC	419804	5273319	IV	layered, graphitic, silica rich, magnetite	>1%	yes
Z079521	RK/SC	419804	5273323	BIF	oxide facies, minor QV folded		
Z079522	RK/SC	419804	5273324	BIF	oxide facies, silica rich		
Z079523	RK/SC	419804	5273325	BIF	oxide facies, silica rich		
Z079524	RK/SC	419804	5273326	BIF	oxide facies, w/ folded QV		
Z079525	RK/SC	419320	5273318	QV	minor s folds	trace	
Z079526	RK/SC	419595	5273614	Meta Sed	Q podding, fracture w/ pyrite	1%	
Z079527	RK/SC	432181	5274534	granodiorite			
Z079528	RK/SC	432197	5274634	granite	course grained		
Z079529	RK/SC	432184	5274779	granite			
Z079530	RK/SC	432296	5274890	gabbro	mesocratic	1%	
Z079531	RK/SC	431834	5274248	granite		trace	
Z079532	RK/SC	420315	5274207	granodiorite	Kspar		
Z079533	RK/SC	420168	5274310	granodiorite	Kspar		
Z079534	RK/SC	420159	5274313	granodiorite	Kspar		
Z079535	RK/SC	420147	5274707	granite			
Z079536	RK/SC	420008	5274612	syenite	very little or no Q		
Z079537	RK/SC	420262	5273535	mafic dike	narrow, strike 90 deg	trace	
Z079538	RK/SC	428427	5273581	granite			
Z079539	RK/SC	427780	5274703	granodiorite		trace	
Z079540	RK/SC	429248	5271739	granodiorite			
Z079541	RK/SC	429431	5271666	granodiorite			
Z079542	RK/SC	421770	5272784	IV/MV	sheared	trace	
Z079543	RK/SC	421772	5272796	gabbro	leucocratic	1%	yes
Z079544	RK/SC	421768	5272820	gabbro	mesocratic	1%	yes
Z079545	RK/SC	421767	5272845	pyroxenite	sheared gabbro ?		
Z079546	RK/SC	421769	5272851	pyroxenite	sheared gabbro ?		
Z079547	RK/SC	421744	5272708	MV	sheared, minor QV	1%	yes
Z079548	RK/SC	421747	5272710	FV	30% mafic volcanic	2-3%	yes
Z079549	RK/SC	421847	5275062	granite			yes
Z079550	RK/SC	421951	5274685	granite			weak
Z079551	RK/SC	421910	5274366	granodiorite			
Z079552	RK/SC	422004	5274031	granodiorite			
Z079553	RK/SC	421925	5273543	granodiorite			yes
Z079554	RK/SC	421729	5273184	IV	sheared, strike 110 deg		
Z079555	RK/SC	421735	5273184	gabbro	leucocratic	>2%	yes
Z079556	RK/SC	421736	5273194	gabbro	leucocratic	2%	yes
Z079557	RK/SC	421726	5273211	MV/gabbro	contact, linear features		
Z079558	RK/SC	421727	5273208	gabbro	leucocratic	>1%	yes
Z079559	RK/SC	421739	5273146	QV	strike 10 deg	2%	
Z079560	RK/SC	422129	5272990	mafic intrusive	minor calcite		
Z079561	RK/SC	422114	5272990	mafic intrusive	sheared, minor calcite, serpentinized	>1%	
Z079562	RK/SC	422193	5273289	granodiorite			
Z079580	RK/SC	426260	5270618	QV	in water/ w/schist 30%	2-3%	
Z079581	RK/SC	426268	5270601	IV	sheared, epidote, silica, K-Spar, PY/CPY	2-3%	
Z079582	RK/SC	426270	5270582	FP	stylolitic fracturing	1%	

Sample_ID	Sampler	Easting	Northing	Rock_Type	Sample_Description	Sulfides	Magnetic
Z079583	RK/SC	426267	5270569	QV 50%	volcanics 50%, malachite staining	1.00%	
Z079584	RK/SC	426242	5270589	FV	epidote alt	2%	
Z079585	RK/SC	426279	5270705	QV	in sheared volcanics		
Z079586	RK/SC	425058	5271106	QV	in water		
Z079587	RK/SC	424614	5271470	QCV	in sheared volcanics w/sericite/ strike 110 deg/ V-dip	1%	
Z079588	RK/SC	424614	5271471	FP?	Q veinletes	1-2%	
Z079589	RK/SC	423496	5270913	FV	sheared	trace	
Z079590	RK/SC	424442	5271101	MV	coarse granined, sheared		
Z079591	RK/SC	424444	5271096	IV	gossanous, sheared	1-2%	
Z079592	RK/SC	424444	5271097	QV	gossanous	1%	
Z079593	RK/SC	424466	5271073	IV	sheared and linear	1%	
Z079594	RK/SC	424484	5271070	FV	gossanous/fabric	1%	
Z079595	RK/SC	424491	5271055	IV	sheared	2%	
Z079596	RK/SC	425030	5271250	QV	w/chlorite	trace	
Z079597	RK/SC	431670	5272793	gabbro	leucocratic/ strike 170 deg	1%	yes
Z079598	RK/SC	431756	5272903	granite	minor linear fracures @ 70 deg		
Z079599	RK/SC	430146	5273634	granodiorite			weak
Z079651	CC / CM	432232	5273368	Gabbro / Diabase	Fine to medium grained dark grey, very magnetic intermediate to mafic intrusive with trace sulfides. Potential dike, although it has irregular contact with adjacent tonalite unit. Appears to have salt and pepper colouring on fresh surface; bio rich; plag? with magnetite, hornblende, lesser Qtz; strong fracture planes striking at 360° (outcrop breaks off in rectangle shapes).		
Z079652	CC / CM	432679	5271585	Gabbro / Diabase	Magnetic fine to medium grained dark grey mafic outcrop; potential dike; contains abundant pyroxenes, plag, magnetite; no visible sulfides; non effervescent.		
Z079653	CC / CM	432872	5271152	Granite	Medium to coarse grained granite. Locally magnetic (sulfides?); trace sulfides; epidote? (light green mineral); consists of Qtz, kspars, plag, lesser biotite and possible epidote alteration; non-effervescent.		
Z079654	CC / CM	432984	5271054	Granite	Medium to coarse grained granite; same as NP 079653; some localized magnetic areas; possible magnetic sulfides? Adjacent to very magnetic mafic unit.		
Z079655	CC / CM	432984	5271054	Gabbro / Diabase	Fine grained dark grey very magnetic unit; similar to NP 079651; has sharp, irregular, brecciated contact with adjacent/host granite (NP 079654); trace disseminated sulfides.		
Z079656	CC / CM	433181	5270944	Granite	Medium to coarse grained kspars rich granite; contains predominantly kspars, Qtz, plag with fairly abundant biotite with lesser epidote; non-magnetic, no sulfides. Qtz is very coarse grained at times.		
Z079657	CC / CM	433231	5271233	Granite	Coarse grained granite; locally magnetic; some trace sulfides; Some green minerals - epidote?		
Z079658	CC / CM	433194	5271418	Granite	Coarse grained granite; locally magnetic; biotite-rich portion of the outcrop could be altered; no visible sulfides; non-effervescent; approximately 30% Qtz, 25% plag, 25% kspars, 20% biotite, 5% magnetite/hornblende/green mineral (epidote?).		
Z079659	CC / CM	433093	5271525	Granite	Medium to coarse grained granite; non-magnetic; no sulfides; potentially same outcrop as NP 079658.		
Z079660	CC / CM	433004	5271653	Granite	Medium to coarse grained tonalitic granite. Locally weakly magnetic. Non effervescent. Consists primarily of plagioclase (40%) with lesser potassium feldspar (10%), abundant quartz (30%) and approximately 10% biotite. No visible sulphides.		
Z079661	CC / CM	432939	5271730	Granite	Medium to coarse grained tonalitic granite; locally weakly magnetic; same as NP 079660; Locally more kspars in other parts of the outcrop.		
Z079662	CC / CM	432992	5271801	Granite	Medium to coarse grained granite; plag up to 2.5cm long with excellent cleavage; weakly magnetic in places.		
Z079663	CC / CM	432922	5271806	Granite	Medium to coarse grained granite; locally magnetic; trace sulfides which are magnetic (pyrrhotite?).		
Z079664	CC / CM	432992	5271910	Syenite	Coarse grained syenite; locally weakly magnetic; weak foliation (orientation of elongate minerals); kspars up to ~2cm long; consists of approximately 60% kspars, 30% black minerals (hornblende, biotite) and 10% other (plag, Qtz?).		

Sample_ID	Sampler	Easting	Northing	Rock_Type	Sample_Description	Sulfides	Magnetic
Z079665	CC / CM	431160	5271827	Diabase	Medium to coarse grained magnetic intrusive (diabase); sub-ophitic texture; trace sulfides; rusting on weathered surface; non-effervescent; consists of plag, pyroxenes, magnetite; possible green plag or epidote?		
Z079666	CC / CM	430135	5271820	Diabase	Fine grained dark grey mafic intrusive; part of same outcrop as NP 0797665; cliff face strikes at 072° which may represent the potential strike of the dike (if it is a dike); magnetic; trace sulfides.		
Z079667	CC / CM	430983	5271416	?	Potential subcrop? Bouldery swamp with similar large "boulder" and/or subcrops in a cluster. Medium to coarse grained; non-magnetic; no sulfides.		
Z079668	CC / CM	431103	5271462	Granite	Fine to medium grained felsic intrusive; locally weakly magnetic; sections of the outcrop appear variable - from granitic to tonalitic with some biotite/muscovite-rich sections; non-effervescent; outcrop is located on east side of creek which represented a potential fault location? Possible location of NP SS 12?		
Z079701	CC / CM	432518	5274634	Gabbro	Mafic gabbrol medium grained dark grey-green on fresh surface; magnetic; roughly 1-3% sulfides (pyrrhotite?); olivine throughout. This gabbro is likely a dyke; ~6m wide with granites on either sides; near fault; striking ~162 with no dip measurements.		
Z079702	CC / CM	432511	5274633	Granite	Granite adjacent to gabbro dyke, due south west. Some slightly magnetic sections; consists mostly of Qtz, plag, kspar, some biotite & hornblende.		
Z079703	CC / CM	432551	5274919	Gabbro	Mafic to intermediate intrusive; medium grained; fresh surface is white to dark grey equigranular minerals; magnetic; pitted texture (see pic 2110); some rusting on weathered surface; trace sulfides; contains about 50/50 felsic/mafic minerals (Qtz, plag, hornblende, amphiboles and bio?).		
Z079704	CC / CM	432559	5274920	Tonalite	Fine grained dark grey dyke within medium to coarse grained tonalitic outcrop; multiple dykes striking at 180 dipping near vertical; some medium grained dark/black minerals. Dykes are up to 1.5m and pinch out; evidence of shear stress (see diagram). Magnetic, no visible sulfides. Located ~4m east of NP 079703, no visible contact.		
Z079705	CC / CM	432508	5274886	Granite	Brecciated felsic with ~1% magnetite; appears to be large scale patch work (possible large scale brecciation) with distinctive tonalite, granite and occasional synite and diorite. Grain size varies from medium to coarse grained. Veins of felsic materials are present ~2-4cm wide striking at 325° and 210°.		
Z079706	CC / CM	432182	5274784	Tonalite	Coarse to medium grained tonalite 3m from NP OC 32. Non-magnetic. Part of gradational contact or breccia? Contains Qtz, plag, hornblende, bio and some trace Chl alteration.		
Z079707	CC / CM	432157	5274796	Granite	Coarse grained granite consisting of approximately 30% plag, 30% kspar, 30% Qtz, 5% bio, 5% hornblende. Trace sulfides. Slightly magnetic in localized area. Non-effervescent.		
Z079708	CC / CM	432032	5274860	Granite	Fine to medium grained granite. Locally magnetic. Contains Qtz, Kspar, plag and lesser biotite.		
Z079709	CC / CM	431966	5275156	Tonalite	Beginning of tonalitic suite? Large outcrop by lake with coarse grained kspar/Qtz veins and some areas that appear to be tonalitic. Localized weak magnetism.		
Z079710	CC / CM	432261	5275303	Gabbro	Magnetic. At least 10m wide mafic to intermediate intrusion. Medium grained. Contains trace sulfides.		
Z079711	CC / CM	419800	5273609	Mica Schist	Metamorphosed with banding and foliation striking at 068/78. Some green bands ~1cm wide - Chl alteration? Epidote? Appears to have garnet and sulfides (pic 2146)? Small scale tight "M" folds with axis parallel to foliation and bands (pic 2147). Rich in biotite and muscovite (sericite) - schist with sulfide mineralization parallel to foliation. Locally magnetic.		
Z079712	CC / CM	419805	5273492	Tonalite?	Grey, fine grained to locally medium grained, weakly foliated outcrop. Contains some kspar rich pods with medium grained elongate lath-like green mineral (tourmaline?) and sulfides. Non-magnetic, non-effervescent. Some Qtz/Kspar veinlets/silicious bands.		
Z079713	CC / CM	419799	5273448	Biotite Schist	Small scale "Z" folds. Qtz veins up to 4cm wide with some Cc veinlets. Non-magnetic. Biotite schist with Qtz/Cc veining and sulfides. Biotite becomes coarser grained near veins. Folding of veins - no measurement taken. Possible Chl alteration. Kspar "eyes" present. 1mm garnet in Qtz vein with some Chl.		
Z079714	CC / CM	419773	5273412	Diabase	Dike within foliated meta volcanic. Fine grained dark grey colour on fresh surface; slightly rusted on weathered surface. Magnetic. ~1% sulfides (pyrite, pyrrhotite?). Contact with volcanics is sharp at 128/87°.		
Z079715	CC / CM	419773	5273412	Mafic Schist	Sheared contact with dike (NP 079714). Well foliated/sheared; contains a lot of bio, some thin Qtz veinlets; non-magnetic; fine grained dark grey to black on fresh surface; no visible sulfides. Strike at 128/87°.		

Sample_ID	Sampler	Easting	Northing	Rock_Type	Sample_Description	Sulfides	Magnetic
Z079716	CC / CM	419774	5273412	Mafic Metavolcanic w Qtz Veins	Well foliated mafic meta volcanic. Contains Qtz veins, Kspar veins and has a lot of biotite. Very magnetic locally. Trace sulfides. Host rock of dike (NP 079714).		
Z079717	CC / CM	419815	5273310	Mafic Metavolcanic w Qtz Veins	Mafic metavolcanic ~10m south of Golf Showing. Well foliated. Thin Qtz veinlets ~1-3mm thick. Non-magnetic. Cc present in thin veinlets. No visible sulfides.		
Z079718	CC / CM	419798	5273247	Mafic Metavolcanic	Mafic metavolcanic; well foliated; non-magnetic; located on a ridge in appropriate location of fault (from OGS maps). Non-effervescent. Trace sulfides.		
Z079719	CC / CM	419717	5273337	Mafic Metavolcanic	Mafic metavolcanic. Large outcrop extends 40m north. Well foliated. Effervescent. Non-magnetic. No visible sulfides. Appears to be an old blast pit/site.		
Z079720	CC / CM	430182	5269168	Diabase?	fine grained dark grey mafic outcrop; weathered surface is beige with a tinge of red; non-magnetic; no visible sulfides; non-effervescent; possible dike; massive.		
Z079738	CC / CM	428809	5270967	Mafic Metavolcanic	Mafic metavolcanic; well foliated; folding present; fold axis striking at 123°; non-magnetic; no visible sulfides; contains some Qtz/Cc veinlets; fine grained greenish on fresh surface; Foliation dips to the south at 071/80.		
Z079739	CC / CM	428861	5270840	Gabbro	Medium to coarse grained gabbro outcrop on road; contains trace disseminated sulfides; magnetic; sub-ophitic texture; dark grey to green fresh surface; consists of hornblende, plag, pyroxenes & olivine? Or green plag?		
Z079740	CC / CM	428930	5270705	Mafic Metavolcanic w Qtz Veins	Well foliated fine grained grey-green mafic metavolcanic with Qtz/Cc veinlets; non-magnetic; no visible sulfides; some pitted texture on weathered surface (differential erosion); slight rusting on weathered surface.		
Z079741	CC / CM	428995	5270568	Mafic Metavolcanic w Qtz Veins	Qtz vein within mafic metavolcanic; Qtz vein is deformed (no strike taken) as a result of apparent folding; Cc or ankerite? present; non-magnetic; no visible sulfides; some crumbly/pitted texture and rusting on weathered surface; Cc/ankerite crystals are localized; Qtz is mostly white with some rusting and contains some assimilated host rock.		
Z079742	CC / CM	428996	5270567	Mafic Metavolcanic	Foliated mafic metavolcanic; sample taken near Qtz vein (NP 079741); fine grained grey-green on fresh surface; more competent/massive than previous mafic metavolcanic along this road (outcrops from 03/10/2011); contains Qtz/Cc veinlets, plag, amphiboles, biotite (seen on fracture surfaces parallel to foliation); non-magnetic; no visible sulfides.		
Z079743	CC / CM	429380	5270645	Mafic Metavolcanic	Sheared to well foliated mafic metavolcanic; foliation at 090/80; foliation planes have a sheen and plagioclase appears to be altered to sericite; Qtz/Cc appears to have infilled fracture planes parallel to foliation; modal 1-2% sulfides in sheared parts of the outcrop. Outcrop is exposed along a ridge in a cedar swamp near Bagsverd Lake and appears to have sections of shearing with rusting on weathered surface. Non-magnetic.		
Z079744	CC / CM	429368	5270704	Mafic Metavolcanic	Fine grained well foliated mafic metavolcanic; trace sulfides; cc alteration; foliation 119/85°; non-magnetic; ridge, likely same as 079743; located in cedar swamp; some rusting on weathered surface.		
Z079745	CC / CM	429377	5270744	Mafic Metavolcanic	Foliated to sheared mafic metavolcanic; ~1-3% sulfides; trace Cc alteration in places; non-magnetic; outcrop ridge in cedar swamp; appears altered/weakly sheared with rusting on weathered surface; fine grained dark grey to bluish with some green tinge on fresh surface.		
Z079746	CC / CM	428927	5271118	Mafic Metavolcanic w Qtz Veins	Qtz vein in mafic metavolcanic outcrop; Qtz vein is 5-15cm wide, white to beige with some rusting and is concordant with foliation; contains brecciated host rock material; Cc or ankerite present within the Qtz; no sulfides; non-magnetic.		
Z079747	CC / CM	429377	5271466	Granite	Medium to coarse grained granite consisting of kspar, biotite, Qtz, some hornblende? and green mineral (possible Chl alteration, green plag?). Weak foliation. Whaleback outcrop on side of loggig road. Locally magnetic with trace sulfide within the biotite-rich "sheared" sections, possibly pyrrhotite.		
Z079748	CC / CM	432197	5273439	Tonalite	Foliated biotite schist "band" within tonalitic outcrop. Unit is a ~1.5m wide band of dark grey-black bioschist. Irregular contact. Fine to medium grained. Almost entirely biotite with lesser Qtz and Cc. Non-magnetic. No sulfides.		

Sample_ID	Sampler	Easting	Northing	Rock_Type	Sample_Description	Sulfides	Magnetic
Z079749	CC / CM	432200	5273437	Biotite Schist	Sheared bio schist with Qtz vein; shearing is between two tonalite units ~8m south of NP 079748; shear zone is 15cm wide; trace sulfides; non-effervescent; Qtz is clear with purple-grey hue; non-magnetic.		
Z079750	CC / CM	432201	5273438	Tonalite	Coarse to medium grained tonalite which hosts biotite schists from NP 079748 & 079749. Mostly white with black patches representing Qtz/plag and bio respectively; lesser ksp and hornblende. Non-magnetic. No visible sulfides. Non-effervescent.		

\*\*\* All samples are NAD 83, UTM Zone 17

**Appendix C**  
***Assay Certificates***



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Page: 1  
 Finalized Date: 30- OCT- 2011  
 Account: CECI

**CERTIFICATE TB11206281**

Project:  
 P.O. No.: NEWCASTLE- NEVILLE- POTIER- RK 5  
 This report is for 21 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 11- OCT- 2011.

The following have access to data associated with this certificate:

STEVE SIEMIENIUK

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
PGM- ICP23	Pt, Pd, Au 30g FA ICP	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: CLARK EXPLORATION CONSULTING INC.  
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Signature:

  
 Colin Ramshaw, Vancouver Laboratory Manager











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Account: CECI

**CERTIFICATE TB11209081**

Project:  
P.O. No.: NEWCASTLE- NEVILLE- POTIER- CC CM  
This report is for 68 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 12- OCT- 2011.

The following have access to data associated with this certificate:  
STEVE SIEMIENIUK

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
PGM- ICP23	Pt, Pd, Au 30g FA ICP	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

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ATTN: STEVE SIEMIENIUK  
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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TB11209081

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	PGM- ICP23	PGM- ICP23	PGM- ICP23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Au ppm	Pt ppm	Pd ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm
		0.02	0.001	0.001	0.005	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1
79651		2.74					<0.2	1.03	<2	<10	10	<0.5	2	1.44	<0.5	15
79652		2.02					<0.2	1.43	<2	<10	30	<0.5	<2	0.99	<0.5	16
79653		2.08	0.001	0.001	<0.005	<0.001										
79654		1.94	0.003	0.002	<0.005	0.001										
79655		1.88					0.2	1.13	<2	<10	180	<0.5	2	0.43	<0.5	26
79656		2.04	0.003	0.001	<0.005	<0.001										
79657		1.82	0.001	0.001	<0.005	<0.001										
79658		1.58	0.001	0.001	0.005	0.001										
79659		1.96	0.004	0.010	<0.005	0.001										
79660		1.73	0.001	0.001	0.005	0.001										
79661		1.41	0.002	0.002	<0.005	0.001										
79662		1.80	0.002	0.002	<0.005	0.002										
79663		2.49	0.001	0.002	<0.005	0.001										
79664		1.97	0.001	0.001	<0.005	<0.001										
79665		2.10					<0.2	1.68	2	<10	60	<0.5	<2	0.99	<0.5	20
79666		2.49					<0.2	1.90	<2	<10	30	<0.5	<2	1.18	<0.5	21
79667		2.04	0.001	0.001	<0.005	0.001										
79668		2.07	<0.001	0.001	<0.005	0.001										
79701		2.40		0.005	0.020	0.017	0.2	1.85	<2	<10	30	<0.5	<2	1.39	<0.5	18
79702		1.00	0.001													
79703		1.82		<0.001	<0.005	0.001	<0.2	0.73	<2	<10	30	<0.5	<2	0.58	<0.5	34
79704		1.87		0.001	0.008	0.002	0.2	0.97	3	<10	150	<0.5	2	0.47	<0.5	31
79705		1.42	<0.001													
79706		2.20	0.001													
79707		2.15	0.001													
79708		1.77	0.001													
79709		1.73	<0.001													
79710		2.50		0.004	0.006	0.002	0.3	0.87	<2	<10	30	<0.5	2	0.91	<0.5	33
79711		2.61	0.002													
79712		1.74	<0.001													
79713		2.56	0.001													
79714		1.90		0.001	<0.005	0.001	0.2	1.46	3	<10	30	<0.5	<2	0.99	<0.5	21
79715		1.67	0.002													
79716		1.70	0.001													
79717		2.02	0.003													
79718		2.92	0.223													
79719		2.59	0.003													
79720		3.02	0.001													
79721		2.30		0.002	<0.005	<0.001	0.2	2.44	2	<10	10	<0.5	<2	0.77	<0.5	26
79722		1.49		<0.001	0.008	0.002	0.2	2.15	<2	<10	20	<0.5	<2	1.22	<0.5	19



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CERTIFICATE OF ANALYSIS TB11209081

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %
		1	1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01
79651		10	31	7.98	10	<1	0.12	<10	0.59	575	<1	0.12	6	2110	3	0.12
79652		12	198	4.10	10	<1	0.18	10	0.56	226	<1	0.17	15	850	4	0.08
79653																
79654																
79655		4	85	5.14	10	<1	0.70	10	0.66	193	<1	0.08	14	570	4	0.09
79656																
79657																
79658																
79659																
79660																
79661																
79662																
79663																
79664																
79665		17	72	4.24	10	<1	0.17	10	0.58	248	<1	0.18	22	780	6	0.06
79666		13	75	4.24	10	<1	0.10	10	0.68	242	<1	0.24	21	710	3	0.14
79667																
79668																
79701		7	150	3.80	10	<1	0.17	10	0.56	193	<1	0.17	34	430	<2	0.10
79702																
79703		39	172	5.91	<10	<1	0.34	30	0.95	361	<1	0.06	115	1320	7	0.01
79704		32	122	5.22	<10	<1	0.86	20	1.52	345	<1	0.07	135	820	4	0.07
79705																
79706																
79707																
79708																
79709																
79710		58	173	6.15	<10	<1	0.28	30	1.12	342	<1	0.08	105	1300	5	0.09
79711																
79712																
79713																
79714		7	31	5.84	10	<1	0.10	10	0.84	429	<1	0.06	10	920	4	0.14
79715																
79716																
79717																
79718																
79719																
79720																
79721		68	87	4.21	<10	<1	0.01	<10	1.87	661	<1	0.03	48	320	<2	0.04
79722		11	128	3.77	10	<1	0.10	<10	0.52	223	<1	0.27	22	320	2	0.11



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CERTIFICATE OF ANALYSIS TB11209081

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20	Ti % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
79651		<2	9	11	<20	0.24	<10	<10	58	<10	47
79652		<2	3	29	<20	0.26	<10	<10	181	<10	63
79653											
79654											
79655		<2	2	22	<20	0.35	<10	<10	228	<10	62
79656											
79657											
79658											
79659											
79660											
79661											
79662											
79663											
79664											
79665		<2	2	30	<20	0.16	<10	<10	208	<10	73
79666		<2	2	37	<20	0.24	<10	<10	175	<10	56
79667											
79668											
79701		<2	1	26	<20	0.20	<10	<10	173	<10	27
79702											
79703		<2	1	30	<20	0.15	<10	<10	134	<10	72
79704		<2	1	25	<20	0.30	<10	<10	104	<10	80
79705											
79706											
79707											
79708											
79709											
79710		<2	1	34	<20	0.19	<10	<10	143	<10	46
79711											
79712											
79713											
79714		<2	3	14	<20	0.57	<10	<10	178	<10	78
79715											
79716											
79717											
79718											
79719											
79720											
79721		<2	3	13	<20	0.19	<10	<10	79	<10	49
79722		<2	1	31	<20	0.29	<10	<10	159	<10	43











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**CERTIFICATE TB11206282**

Project:  
P.O. No.: NEWCASTLE- NEVILLE- POTIER- RK SC  
This report is for 78 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 11- OCT- 2011.  
The following have access to data associated with this certificate:  
STEVE SIEMIENIUK

**SAMPLE PREPARATION**


ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
PGM- ICP23	Pt, Pd, Au 30g FA ICP	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: CLARK EXPLORATION CONSULTING INC.  
ATTN: STEVE SIEMIENIUK  
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Signature:   
Colin Ramshaw, Vancouver Laboratory Manager











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CERTIFICATE OF ANALYSIS TB11206282

Sample Description	Method Analyte Units LOR	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %
Z079550 Z079551 Z079552 Z079553 Z079554		72	52	2.40	<10	1	0.04	10	0.97	304	<1	0.05	34	650	<2	0.09
Z079558 Z079560 Z079561 Z079562 Z079565		16 12 7 47	142 90 37 88	3.95 1.52 1.15 4.06	10 <10 <10 <10	1 <1 <1 <1	0.15 0.06 0.02 0.02	<10 <10 <10 <10	0.60 0.63 0.50 1.95	232 214 175 588	<1 <1 2 <1	0.18 0.08 0.06 0.04	30 29 16 67	510 170 180 320	<2 <2 <2 <2	0.12 0.08 0.01 0.07
Z079566 Z079567 Z079568 Z079569 Z079570		6 9 8	149 46 93	7.97 4.70 4.64	10 10 10	<1 1 1	0.16 0.08 0.06	10 <10 <10	1.15 1.34 1.22	1080 630 619	<1 <1 <1	0.06 0.06 0.08	13 24 24	950 430 470	5 <2 <2	0.08 0.05 0.14
Z079571 Z079572 Z079573 Z079574 Z079575		35 38 4	75 112 63	3.70 3.30 9.40	10 10 20	<1 <1 <1	0.01 <0.01 0.02	<10 <10 10	3.57 3.31 1.87	460 388 1035	<1 1 1	0.11 0.02 0.06	241 242 29	140 110 740	<2 2 5	0.04 0.02 0.14
Z079576 Z079577 Z079578 Z079579 Z079586		5 52 135	224 122 172	1.93 5.65 3.80	<10 10 <10	<1 <1 <1	<0.01 0.02 0.01	10 <10 <10	0.29 0.61 2.73	224 369 539	2 1 1	0.01 0.14 0.07	7 39 115	590 470 160	9 <2 <2	0.12 0.09 0.13
Z079587 Z079588 Z079589 Z079590 Z079591		90 121	179 137	3.48 5.19	<10 <10	<1 1	<0.01 0.02	<10 <10	1.68 1.57	526 671	1 1	0.02 0.03	86 51	190 220	2 <2	0.05 0.23
Z079592 Z079593 Z079594 Z079595 Z079596		137 186	110 126	4.66 7.37	<10 10	<1 <1	0.01 <0.01	<10 <10	2.26 4.06	652 1355	1 1	0.03 0.02	75 104	240 250	<2 <2	0.09 0.22
Z079597 Z079598 Z079599		13	169	5.26	10	<1	0.13	10	0.79	347	1	0.25	28	680	<2	0.11



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CERTIFICATE OF ANALYSIS TB11206282

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20	Ti % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
Z079550 Z079551 Z079552 Z079553 Z079554		<2	3	83	<20	0.25	<10	<10	59	<10	25
Z079558 Z079560 Z079561 Z079562 Z079565		<2	2	24	<20	0.31	<10	<10	172	<10	48
		<2	4	21	<20	0.14	<10	<10	40	<10	14
		<2	4	4	<20	0.13	<10	<10	33	<10	9
		<2	3	12	<20	0.21	<10	<10	75	<10	46
Z079566 Z079567 Z079568 Z079569 Z079570		<2	5	19	<20	0.51	<10	<10	232	<10	120
		<2	5	8	<20	0.33	<10	<10	105	<10	55
		<2	6	16	<20	0.30	<10	<10	110	<10	53
Z079571 Z079572 Z079573 Z079574 Z079575		<2	1	15	<20	0.06	<10	<10	41	<10	41
		<2	1	7	<20	0.05	<10	<10	31	<10	41
		<2	6	10	<20	0.61	<10	<10	270	<10	129
Z079576 Z079577 Z079578 Z079579 Z079586		<2	3	106	<20	0.54	<10	<10	108	<10	77
		<2	4	10	<20	0.28	<10	<10	512	<10	57
		2	6	15	<20	0.09	<10	<10	75	<10	38
Z079587 Z079588 Z079589 Z079590 Z079591		2	2	27	<20	0.17	<10	<10	47	<10	46
		2	2	14	<20	0.25	<10	<10	57	<10	48
Z079592 Z079593 Z079594 Z079595 Z079596		2	2	16	<20	0.23	<10	<10	62	<10	52
		<2	4	20	<20	0.18	<10	<10	127	<10	88
Z079597 Z079598 Z079599		<2	3	33	<20	0.29	<10	<10	212	<10	36





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**CERTIFICATE TB11238402**

Project: NC- NEVILLEPOTIER PHASE2 - RK- SC  
P.O. No.: NEWCASTLE- NEVILLE- POTIER  
This report is for 74 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 14- NOV- 2011.

The following have access to data associated with this certificate:

STEVE SIEMIENIUK

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
CRU- 31	Fine crushing - 70% < 2mm
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	
ME- MS61	48 element four acid ICP- MS	
PGM- ICP23	Pt, Pd, Au 30g FA ICP	ICP- AES
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: CLARK EXPLORATION CONSULTING INC.  
ATTN: STEVE SIEMIENIUK  
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\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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To: CLARK EXPLORATION CONSULTING INC.  
 1000 ALLOY DRIVE  
 THUNDER BAY ON P7B 6A5

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Project: NC- NEVILLEPOTIER PHASE2 - RK- SC

**CERTIFICATE OF ANALYSIS TB11238402**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
L072801		1.47	0.002													
L072802		1.08		0.10	7.42	0.7	280	0.75	0.05	6.20	0.14	44.5	44.7	27	1.71	125.0
L072803		1.31	0.001													
L072804		1.05	0.002													
L072805		0.99		0.13	7.41	0.5	200	0.67	0.03	6.54	0.15	38.3	44.1	81	1.16	66.4
L072806		1.19		0.16	6.41	0.9	210	0.79	0.02	5.85	0.16	54.2	51.1	64	1.65	69.4
L072807		1.46		0.13	7.55	0.4	220	0.69	0.02	6.48	0.11	35.1	48.2	71	1.20	72.2
L072808		1.30	<0.001	0.17	0.96	0.7	10	0.18	0.02	0.94	0.16	0.93	3.3	13	0.07	99.0
L072809		1.10		0.10	7.71	0.3	180	0.66	0.02	6.97	0.14	34.0	45.3	87	1.00	72.6
L072810		2.51	0.001													
L072811		1.10	0.001													
L072812		1.58	0.001													
L072813		1.64	0.001													
L072814		1.21		0.13	7.34	0.5	50	0.29	0.04	4.70	0.04	12.25	47.0	13	0.52	161.0
L072815		0.91		0.07	7.75	2.3	100	0.24	0.03	5.90	0.07	5.89	45.6	155	0.63	96.4
L072816		1.01	0.002													
L072817		0.79														
L072818		1.47	0.003	0.07	6.97	<5	10	0.19	0.01	11.60	0.11	5.76	28.7	127	0.18	78.0
L072819		1.20	0.002													
L072820		1.08	0.001													
L072821		1.41	0.001													
L072822		1.59	0.002													
L072823		1.28	0.005													
L072824		1.69		0.11	7.94	0.6	270	0.78	0.04	5.62	0.13	41.3	36.7	48	2.45	161.0
L072825		1.63	0.001	0.06	5.35	0.5	310	0.68	0.07	1.70	0.05	24.8	16.4	84	0.83	29.3
L072826		1.72	0.001													
L072827		1.63		0.26	8.70	3.3	150	0.74	0.01	6.33	0.82	31.0	32.3	9	0.94	129.0
L072828		1.07		0.55	8.47	3.5	210	0.95	0.04	5.19	0.27	37.4	30.8	6	3.36	259
L072829		1.00	0.001													
L072830		1.15	0.001													
L072831		1.16	0.004													
L072832		0.65	0.001													
L072833		1.15	0.001													
L072834		1.68	0.014													
L072835		1.20	0.001													
L072836		1.36	0.001													
L072837		1.35	0.001													
L072838		1.66	0.003	0.14	7.77	<0.2	90	0.32	0.24	4.06	0.05	5.89	37.4	173	0.98	52.3
L072839		1.68	0.001													
L072840		1.29	0.001													

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**CERTIFICATE OF ANALYSIS TB11238402**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ca ppm	Ce ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	NI ppm	P ppm
L072801 L072802 L072803 L072804 L072805		9.87	17.65	0.26	3.8	0.086	0.85	23.1	7.5	2.85	1540	0.59	1.88	7.4	55.3	690
L072806 L072807 L072808 L072809 L072810		10.10	15.75	0.24	2.9	0.073	0.82	19.2	16.8	3.58	1640	0.57	1.80	12.1	49.8	740
L072811 L072812 L072813 L072814 L072815		11.95	17.05	0.28	3.9	0.097	0.90	25.1	16.9	3.62	1900	0.86	1.68	16.9	48.4	1050
L072816 L072817 L072818 L072819 L072820		10.25	16.65	0.25	2.6	0.075	1.11	17.9	18.0	3.67	1590	0.59	1.70	11.3	54.1	680
L072821 L072822 L072823 L072824 L072825		0.56	1.62	<0.05	<0.1	0.057	0.09	0.5	1.5	0.14	153	0.07	0.53	0.3	5.3	50
L072826 L072827 L072828 L072829 L072830		9.75	15.95	0.23	2.6	0.071	0.69	17.3	16.3	3.75	1560	0.53	1.87	10.8	55.8	720
L072831 L072832 L072833 L072834 L072835		11.75	17.75	0.25	0.9	0.090	0.17	4.8	11.8	3.10	1620	0.24	3.22	3.4	28.3	480
L072836 L072837 L072838 L072839 L072840		7.70	13.00	0.21	0.8	0.048	0.38	2.3	25.3	4.88	1340	0.16	2.32	1.7	160.5	220
L072831 L072832 L072833 L072834 L072835		5.81	19.40	0.15	0.4	0.043	0.06	2.4	4.5	1.98	1220	0.35	0.27	1.5	68.9	200
L072836 L072837 L072838 L072839 L072840		11.05	18.90	0.28	4.6	0.109	1.05	19.5	9.1	2.36	1730	0.63	2.30	9.0	34.5	1090
L072831 L072832 L072833 L072834 L072835		3.85	14.55	0.12	2.8	0.034	0.75	11.6	25.0	1.56	505	0.50	2.06	4.5	62.5	590
L072836 L072837 L072838 L072839 L072840		9.52	21.7	0.24	3.9	0.098	1.39	13.8	9.0	1.54	1680	0.57	2.32	10.8	28.9	1010
L072831 L072832 L072833 L072834 L072835		9.76	22.0	0.24	4.8	0.102	1.56	16.6	9.2	1.42	1880	0.67	2.58	12.6	23.2	1210
L072836 L072837 L072838 L072839 L072840		8.03	13.55	0.20	0.3	0.034	0.35	2.5	10.7	3.28	1040	8.26	3.35	1.4	107.5	300

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**CERTIFICATE OF ANALYSIS TB11238402**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Si ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
L072801		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
L072802		6.4	40.6	0.003	0.14	0.15	37.2	2	1.4	154.5	0.52	<0.05	4.6	0.723	0.19	1.1
L072803																
L072804																
L072805		4.9	35.9	0.002	0.15	0.05	38.5	2	1.0	253	0.79	<0.05	2.9	0.920	0.21	0.5
L072806		4.7	45.6	0.003	0.18	0.05	43.1	2	1.3	193.5	1.07	<0.05	3.9	1.170	0.22	0.7
L072807		2.7	47.7	0.002	0.15	0.05	42.5	2	0.9	283	0.70	<0.05	2.5	0.896	0.23	0.4
L072808		41.0	4.4	<0.002	0.01	0.09	2.1	1	<0.2	21.5	<0.05	<0.05	<0.2	0.017	<0.02	<0.1
L072809		3.1	34.6	0.002	0.15	<0.05	39.7	2	0.8	221	0.70	<0.05	2.6	0.822	0.16	0.4
L072810																
L072811																
L072812																
L072813																
L072814		6.1	6.9	0.003	0.91	0.21	42.2	3	0.5	165.5	0.23	0.05	0.4	0.823	0.03	0.1
L072815		3.6	11.2	<0.002	0.05	0.23	31.0	1	0.4	193.5	0.11	<0.05	0.2	0.382	0.07	<0.1
L072816																
L072817																
L072818		0.8	3.6	0.002	0.03	0.54	26.5	1	0.3	155.5	0.09	<0.05	0.2	0.346	<0.02	<0.1
L072819																
L072820																
L072821																
L072822																
L072823																
L072824		3.8	46.6	0.003	0.15	0.14	36.2	2	1.5	241	0.64	<0.05	3.0	1.085	0.20	0.7
L072825		3.3	26.1	<0.002	0.22	0.07	13.0	1	1.1	150.5	0.36	<0.05	1.6	0.335	0.12	0.4
L072826																
L072827		130.5	54.7	0.002	0.10	0.37	28.0	3	1.3	256	0.72	<0.05	1.7	1.340	0.22	0.4
L072828		18.7	64.8	0.002	0.10	0.55	26.5	2	1.6	292	0.84	<0.05	2.1	1.255	0.25	0.5
L072829																
L072830																
L072831																
L072832																
L072833																
L072834																
L072835																
L072836																
L072837																
L072838		4.9	7.7	0.007	2.54	0.10	32.5	3	0.3	96.1	0.08	0.10	0.2	0.385	0.06	<0.1
L072839																
L072840																

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**CERTIFICATE OF ANALYSIS TB11238402**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	PGM- ICP23	PGM- ICP23	PGM- ICP23
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Pt ppm	Pd ppm
L072801									
L072802		319	0.4	30.3	129	141.0	0.001	<0.005	<0.001
L072803									
L072804									
L072805		328	0.3	23.5	130	107.0	0.001	<0.005	<0.001
L072806		376	0.4	30.1	157	146.5	0.001	<0.005	0.001
L072807		345	0.2	22.6	115	98.3	0.001	<0.005	0.001
L072808		10	<0.1	2.1	208	0.8			
L072809		315	0.2	21.6	114	94.2	0.002	<0.005	<0.001
L072810									
L072811									
L072812									
L072813									
L072814		375	0.1	25.9	74	25.4	0.001	<0.005	<0.001
L072815		201	0.1	12.9	82	24.5	0.002	<0.005	0.003
L072816									
L072817							0.001	<0.005	0.002
L072818		181	0.1	12.4	70	9.8			
L072819									
L072820									
L072821									
L072822									
L072823									
L072824		359	0.3	38.5	141	172.0	0.001	<0.005	0.001
L072825		84	2.1	10.8	60	113.0			
L072826									
L072827		333	0.4	33.2	251	144.0	0.003	<0.005	0.007
L072828		277	0.5	39.2	159	183.5	0.003	<0.005	0.006
L072829									
L072830									
L072831									
L072832									
L072833									
L072834									
L072835									
L072836									
L072837									
L072838		185	0.3	12.1	89	6.3			
L072839									
L072840									

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**CERTIFICATE OF ANALYSIS TB11238402**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
L072841		1.16	0.001													
L072842		0.97	0.002													
L072843		1.34	0.008													
L072844		1.23	0.001	0.42	2.31	5.5	10	0.14	0.03	9.31	0.17	34.2	37.7	5	0.20	3060
L072845		2.40	0.013	1.00	6.58	4.8	30	1.26	18.30	3.42	0.11	38.2	44.6	9	1.75	1735
L072846		2.10	0.022	0.92	8.44	3.6	30	4.42	25.2	3.40	0.07	41.9	63.3	22	1.41	381
L072847		0.88	0.004													
L072848		0.97	0.003													
L072849		0.94		0.14	7.20	1.3	250	0.89	0.14	5.61	0.20	40.8	40.4	50	2.00	146.0
L072850		0.83	0.001													
L072851		1.07	<0.001													
L072852		1.01	0.006													
L072853		1.35		0.12	7.17	1.0	240	0.92	0.05	6.18	0.16	45.2	42.1	54	2.21	158.0
L072854		0.73	0.001													
L072855		1.16	0.004													
L072856		0.86	0.202													
L072857		1.10	0.003													
L072858		1.16	0.003													
L072859		0.79		0.35	7.81	0.8	110	0.44	0.43	5.85	0.15	8.03	31.0	129	0.75	199.0
L072860		1.27	2.19	0.33	8.88	32.6	560	0.79	0.04	4.58	0.51	13.05	46.1	165	4.55	91.6
L072861		1.26	0.031	0.07	7.97	22.2	340	0.56	0.02	8.44	0.13	14.00	37.3	133	4.65	56.9
L072862		1.07	0.004	0.01	1.54	<5	70	0.16	0.01	10.20	0.13	5.13	9.4	18	0.97	16.7
L072863		1.29	0.002	0.29	4.36	9	80	0.11	0.02	10.65	0.12	4.46	30.5	110	0.93	79.1
L072864		0.79	0.001	0.16	7.75	4.6	210	2.03	0.09	3.62	0.04	78.1	48.5	10	2.97	199.5
L072865		0.91	0.002	0.02	4.18	1.3	80	0.40	0.01	2.20	0.07	2.14	21.6	142	1.30	21.3
L072866		1.22	0.003	0.26	6.90	77.8	70	0.60	0.24	4.34	0.18	17.65	68.4	95	0.58	482
L072867		0.70	0.001	0.11	3.30	16.8	70	0.19	0.05	6.43	0.21	4.56	22.3	44	0.53	111.5
L072868		0.91	0.003	0.04	5.66	1.9	20	0.39	<0.01	7.78	0.08	16.05	35.9	42	0.19	125.5
L072869		0.70	0.002													
L072870		1.65	0.002													
L072871		1.16	0.001													
L072872		1.45	<0.001													
L072873		2.17	0.005													
L072874		1.23	0.004													

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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ce ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
L072841		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
L072842																
L072843																
L072844		21.7	7.67	0.47	0.8	0.120	0.01	20.1	6.4	2.41	9130	2.62	<0.01	2.1	16.6	500
L072845		4.79	15.85	0.17	4.0	0.229	0.06	15.6	34.8	2.01	613	183.0	3.56	8.7	56.9	1040
L072846		6.58	19.60	0.21	5.1	0.111	0.04	15.4	39.8	3.39	889	121.0	4.09	10.9	79.1	1310
L072847																
L072848																
L072849		9.99	18.40	0.24	4.2	0.088	1.23	19.7	24.7	2.93	1570	0.99	1.85	16.6	51.7	850
L072850																
L072851																
L072852		11.40	17.85	0.29	4.3	0.098	0.84	22.9	16.3	2.85	1740	0.79	1.59	9.7	50.3	1070
L072853																
L072854																
L072855																
L072856																
L072857																
L072858																
L072859		9.83	15.65	0.20	0.6	0.062	0.50	3.3	24.4	4.20	1860	0.75	2.48	2.4	75.9	330
L072860		6.14	18.75	0.16	1.9	0.079	2.29	4.9	33.6	1.25	2220	0.33	2.10	3.4	87.2	560
L072861		7.49	16.15	0.17	1.5	0.069	1.50	5.6	31.5	1.76	3000	0.21	1.16	3.1	83.8	520
L072862		3.20	3.87	0.08	0.4	0.031	0.16	2.0	13.4	0.64	1610	0.08	0.08	0.7	11.8	220
L072863		6.55	9.97	0.07	0.8	0.052	0.24	1.8	36.6	1.67	1560	0.65	0.26	0.6	57.0	170
L072864		8.62	24.3	0.14	5.4	0.107	0.35	39.2	29.7	2.01	867	0.62	3.30	10.4	69.0	1270
L072865		5.01	9.23	0.06	0.8	0.053	0.32	0.8	38.6	1.62	719	0.14	0.37	0.4	49.0	230
L072866		8.23	17.95	0.08	2.2	0.085	0.17	8.0	35.5	1.50	1080	0.32	2.28	2.2	58.1	560
L072867		5.35	9.71	0.07	0.9	0.056	0.12	1.9	26.9	1.06	1930	1.50	0.43	0.8	26.4	320
L072868		10.75	18.00	0.09	2.1	0.107	0.02	6.2	27.3	2.43	2100	0.18	1.55	3.6	21.5	590
L072869																
L072870																
L072871																
L072872																
L072873																
L072874																

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: CLARK EXPLORATION CONSULTING INC.  
 1000 ALLOY DRIVE  
 THUNDER BAY ON P7B 6A5

Page: 3 - C  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 12- DEC- 2011  
 Account: CECI

Project: NC- NEVILLEPOTIER PHASE2 - RK- SC

**CERTIFICATE OF ANALYSIS TB11238402**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm
L072841		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.7	0.005	0.02
L072842															
L072843															
L072844		0.8	2.6	0.005	0.70	0.34	13.9	4	0.2	106.0	0.10	0.18	0.2	0.325	<0.02
L072845		35.0	4.6	<0.002	0.17	0.80	18.6	2	1.3	44.3	0.55	<0.05	3.7	0.791	0.28
L072846		47.2	1.1	0.002	0.13	1.27	34.5	3	2.3	36.7	0.70	<0.05	4.4	1.005	0.34
L072847															
L072848															
L072849		2.6	74.6	0.002	0.12	0.17	34.8	2	2.1	349	1.10	<0.05	3.0	1.145	0.41
L072850															0.9
L072851															
L072852															
L072853		5.9	46.6	0.004	0.16	0.14	37.3	3	1.5	146.5	0.68	<0.05	4.2	1.195	0.25
L072854															1.0
L072855															
L072856															
L072857															
L072858															
L072859		121.0	20.5	0.002	0.13	0.12	33.6	2	0.6	290	0.15	0.10	0.3	0.530	0.08
L072860		20.8	42.8	0.003	0.61	1.33	32.3	2	1.0	313	0.24	<0.05	0.4	0.819	0.19
L072861		2.7	45.7	0.002	0.23	1.31	35.9	2	0.8	314	0.21	<0.05	0.4	0.684	0.15
L072862		0.7	6.7	<0.002	0.02	0.21	9.5	1	0.2	108.5	<0.05	<0.05	<0.2	0.150	0.02
L072863		3.8	9.9	0.003	0.11	0.49	25.1	1	0.3	100.5	<0.05	<0.05	0.2	0.160	0.05
L072864		9.6	21.9	0.004	0.10	0.68	21.1	1	1.5	360	0.63	0.05	4.7	0.923	0.09
L072865		1.0	15.7	0.002	0.01	0.43	27.2	<1	0.4	45.4	<0.05	<0.05	0.2	0.146	0.05
L072866		61.8	7.9	0.004	0.24	0.73	36.8	2	0.6	70.2	0.16	<0.05	0.5	0.671	0.04
L072867		20.4	7.0	0.004	0.20	0.41	19.1	1	0.3	70.9	0.06	<0.05	0.2	0.173	0.03
L072868		1.2	2.4	0.002	0.08	0.52	41.9	1	0.6	152.5	0.24	<0.05	0.5	0.794	<0.02
L072869															0.1
L072870															
L072871															
L072872															
L072873															
L072874															

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: CLARK EXPLORATION CONSULTING INC.  
 1000 ALLOY DRIVE  
 THUNDER BAY ON P7B 6A5

Page: 3 - D  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 12- DEC- 2011  
 Account: CECI

Project: NC- NEVILLEPOTIER PHASE2 - RK- SC

**CERTIFICATE OF ANALYSIS TB11238402**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME MS61	ME- MS61	PGM- ICP23	PGM- ICP23	PGM- ICP23
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Pt ppm	Pd ppm
L072841									
L072842									
L072843									
L072844		135	0.5	6.6	66	30.5			
L072845		207	1.1	30.7	38	160.0			
L072846		276	0.7	68.4	49	198.5			
L072847									
L072848									
L072849		345	0.8	28.3	170	154.5	0.001	<0.005	0.001
L072850									
L072851									
L072852									
L072853		400	0.4	35.5	149	162.5	0.001	<0.005	0.001
L072854									
L072855									
L072856									
L072857									
L072858									
L072859		268	0.5	16.1	144	15.7	0.001	<0.005	0.002
L072860		324	7.5	15.9	165	63.4			
L072861		290	3.9	16.4	95	51.7			
L072862		71	0.1	9.3	31	16.2			
L072863		148	0.8	6.1	72	24.2			
L072864		236	0.3	23.3	52	202			
L072865		155	0.2	4.7	57	22.8			
L072866		311	0.7	22.3	134	72.2			
L072867		137	0.3	10.2	98	29.6			
L072868		320	0.7	11.0	88	84.0			
L072869									
L072870									
L072871									
L072872									
L072873									
L072874									

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
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To: CLARK EXPLORATION CONSULTING INC.  
1000 ALLOY DRIVE  
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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 12- DEC- 2011  
Account: CECI

Project: NC- NEVILLEPOTIER PHASE2 - RK- SC

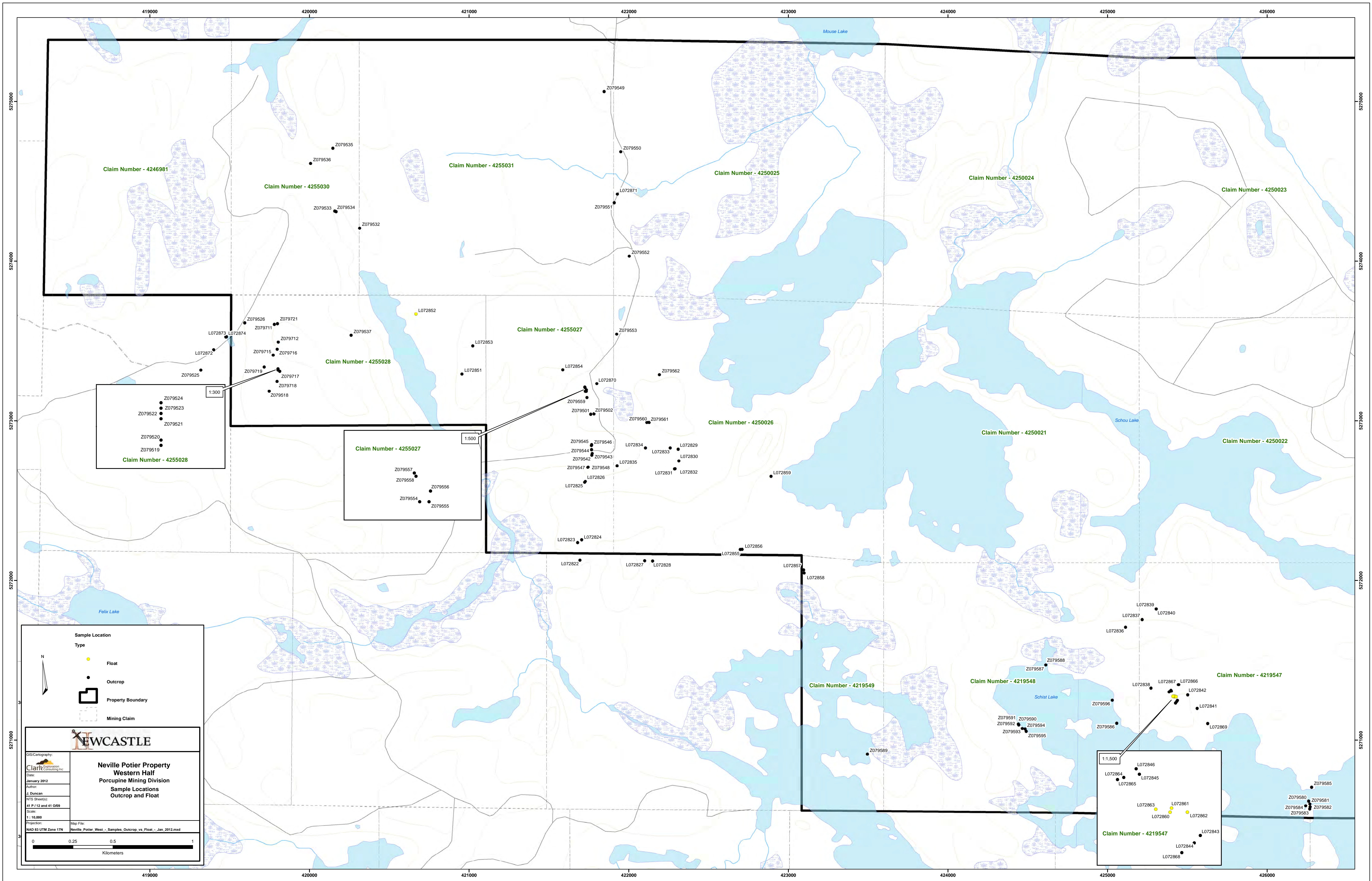
**CERTIFICATE OF ANALYSIS TB11238402**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. REE's may not be totally soluble in this method.

## Appendix D

### ***Sample Location Maps***

Showing Float vs. Outcrop Samples



1:300

Sample Locations for Claim Number - 4255028:

- Z079524
- Z079522
- Z079523
- Z079521
- Z079520
- Z079519

1:500

Sample Locations for Claim Number - 4255027:

- Z079557
- Z079558
- Z079556
- Z079554
- Z079555

1:1,500

Sample Locations for Claim Number - 4219547:

- L072864
- L072846
- L072845
- L072865
- L072863
- L072860
- L072861
- L072862
- L072844
- L072868
- L072843

**NEWCASTLE**

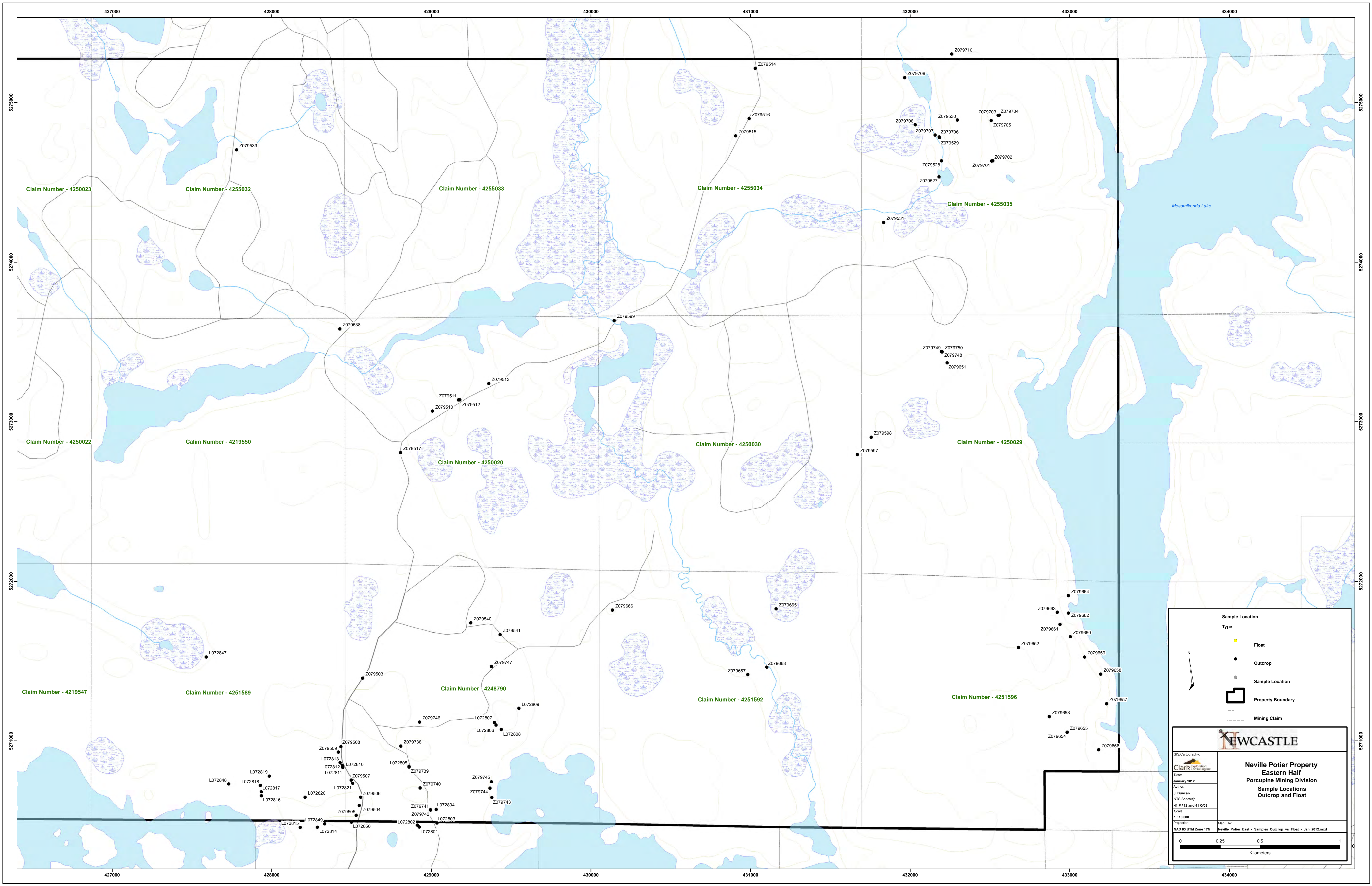
**Neville Potier Property  
Western Half  
Porcupine Mining Division  
Sample Locations  
Outcrop and Float**

GIS Cartography:  
Clarke Geomatics  
Date: January 2012  
Author: J. Duncan  
NTS (Scale): 41 P / 12 and 41 009  
Scale: 1:10,000  
Projection: NAD 83 UTM Zone 17N  
Map File: Neville\_Potier\_West\_Samples\_Outcrop\_vs\_Float\_Jan\_2012.mxd

0 0.25 0.5 1  
Kilometers

**Sample Location Type**

- Float
- Outcrop
- ▭ Property Boundary
- - - Mining Claim



**Sample Location**  
Type

- Float
- Outcrop
- Sample Location
- ▭ Property Boundary
- ▭ Mining Claim

**NEWCASTLE**

GIS Cartography  
**Clarke** Exploration Cartography Inc.  
Date: January 2012  
Author: J. Duncan  
NTS Sheets: 41 P/12 and 41 Q/09  
Scale: 1:10,000  
Projection: NAD 83 UTM Zone 17N  
Map File: Neville\_Potier\_East\_-\_Samples\_Outcrop\_vs\_Float\_-\_Jan\_2012.mxd

**Neville Potier Property  
Eastern Half  
Porcupine Mining Division  
Sample Locations  
Outcrop and Float**

0 0.25 0.5 1  
Kilometers

## **Appendix E**

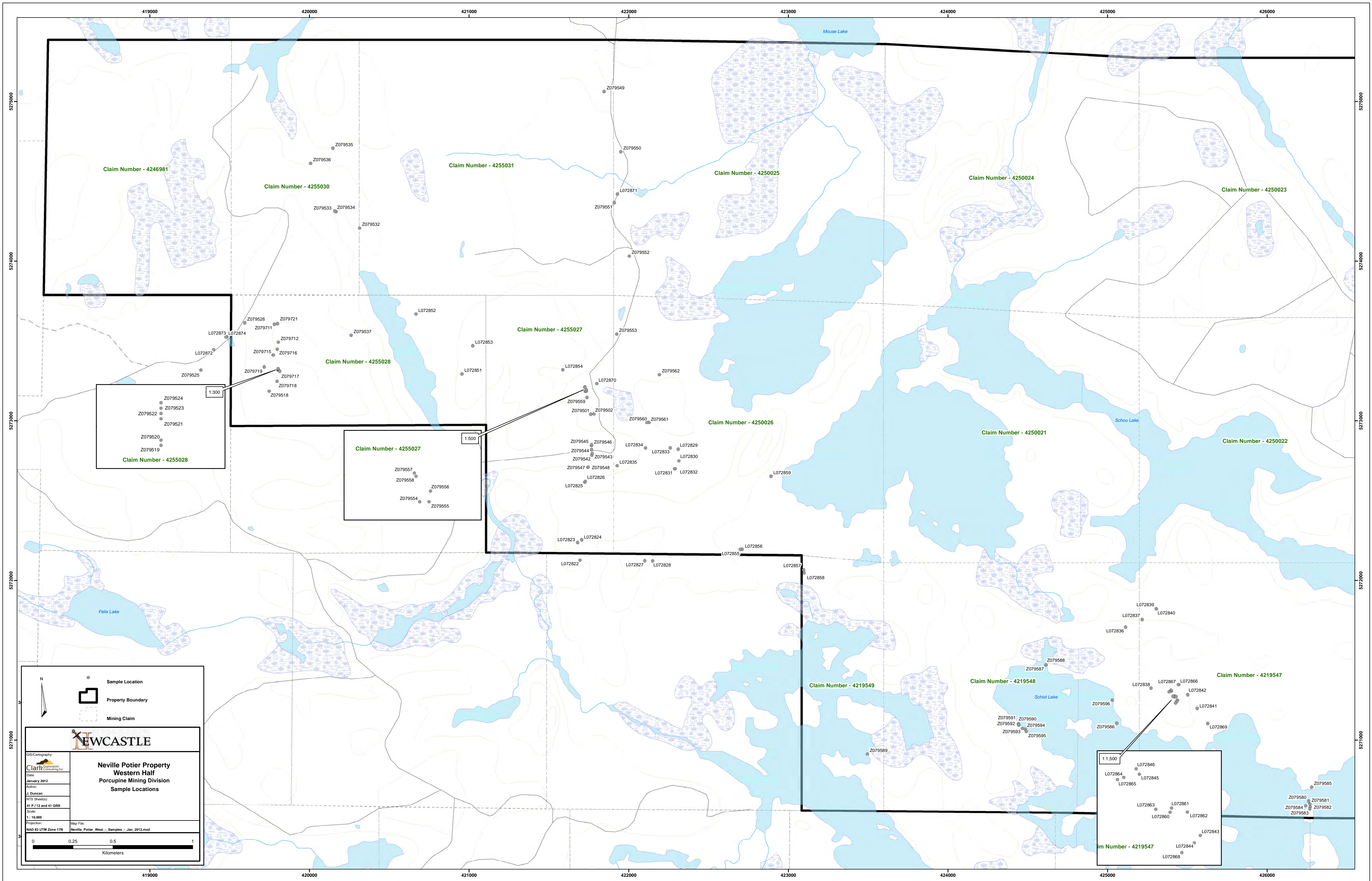
### ***Sample Results with Topography***

6 Maps:

East and West Sample Locations

East and West Gold Values (Proportionate Dot Plots)

East and West Copper Values (Proportionate Dot Plots)



Claim Number - 4246981

Claim Number - 4255030

Claim Number - 4255031

Claim Number - 4250025

Claim Number - 4250024

Claim Number - 4250023

Claim Number - 4255027

Claim Number - 4255028

Claim Number - 4250026

Claim Number - 4250021

Claim Number - 4250022

Claim Number - 4255028

Claim Number - 4255027

Claim Number - 4219549

Claim Number - 4219548

Claim Number - 4219547

Claim Number - 4219547

**NEWCASTLE**

GIS Cartography  
Clarke Exploration & Consulting Inc.

Date: January 2012

Author: J. Duncan

NTS (Scale): 41 P / 12 and 41 009

Scale: 1:10,000

Projection: NAD 83 UTM Zone 17N

Map File: Neville\_Potier\_West\_Samples\_Jan\_2012.mxd

**Neville Potier Property**

**Western Half**

**Porcupine Mining Division**

**Sample Locations**

Legend:

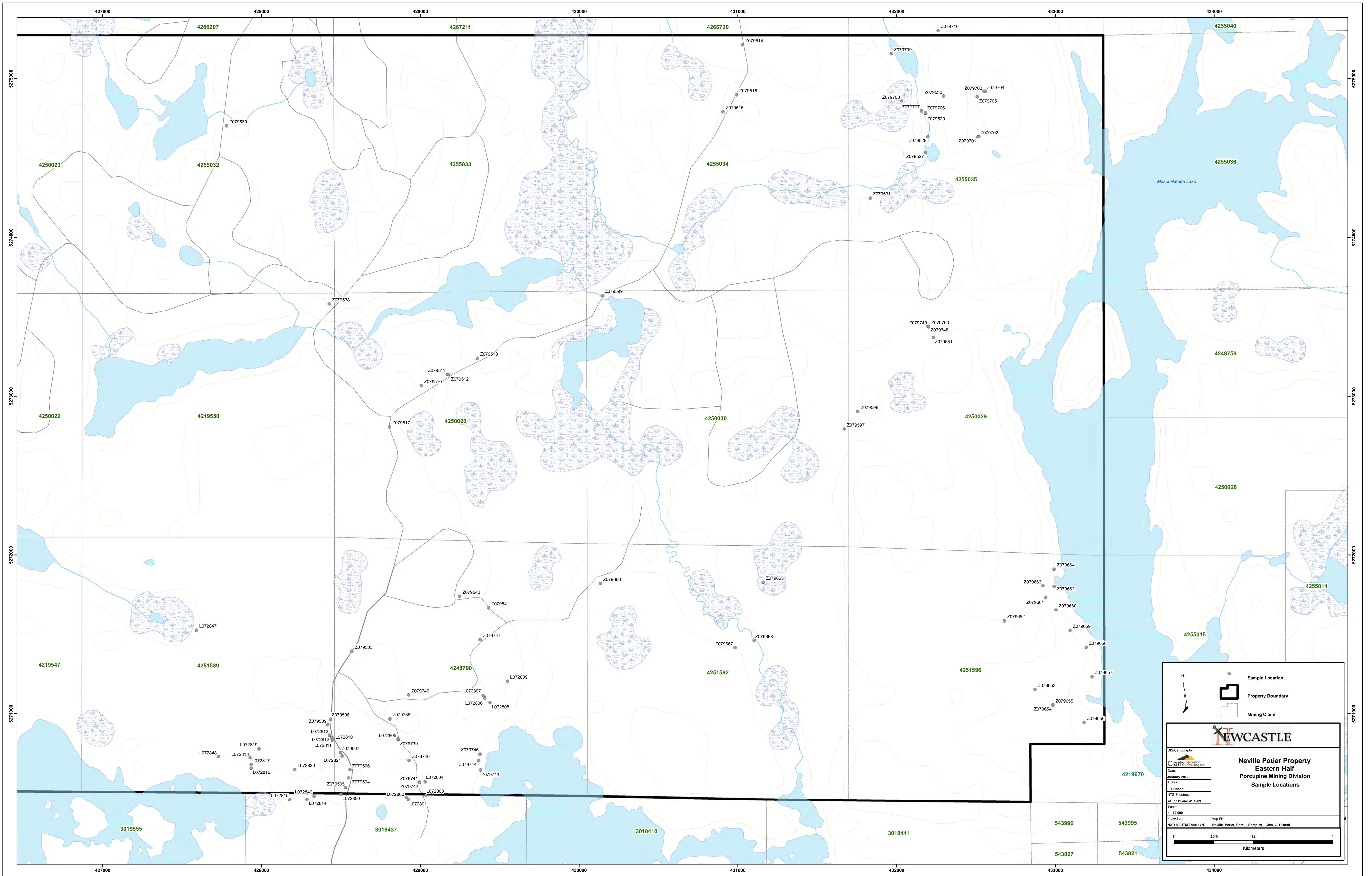
- Sample Location
- Property Boundary
- Mining Claim

Scale: 0 0.25 0.5 1 Kilometers

1:300

1:500

1:1,500



**NEWCASTLE**

**Neville Potier Property  
Eastern Half  
Porcupine Mining Division  
Sample Locations**

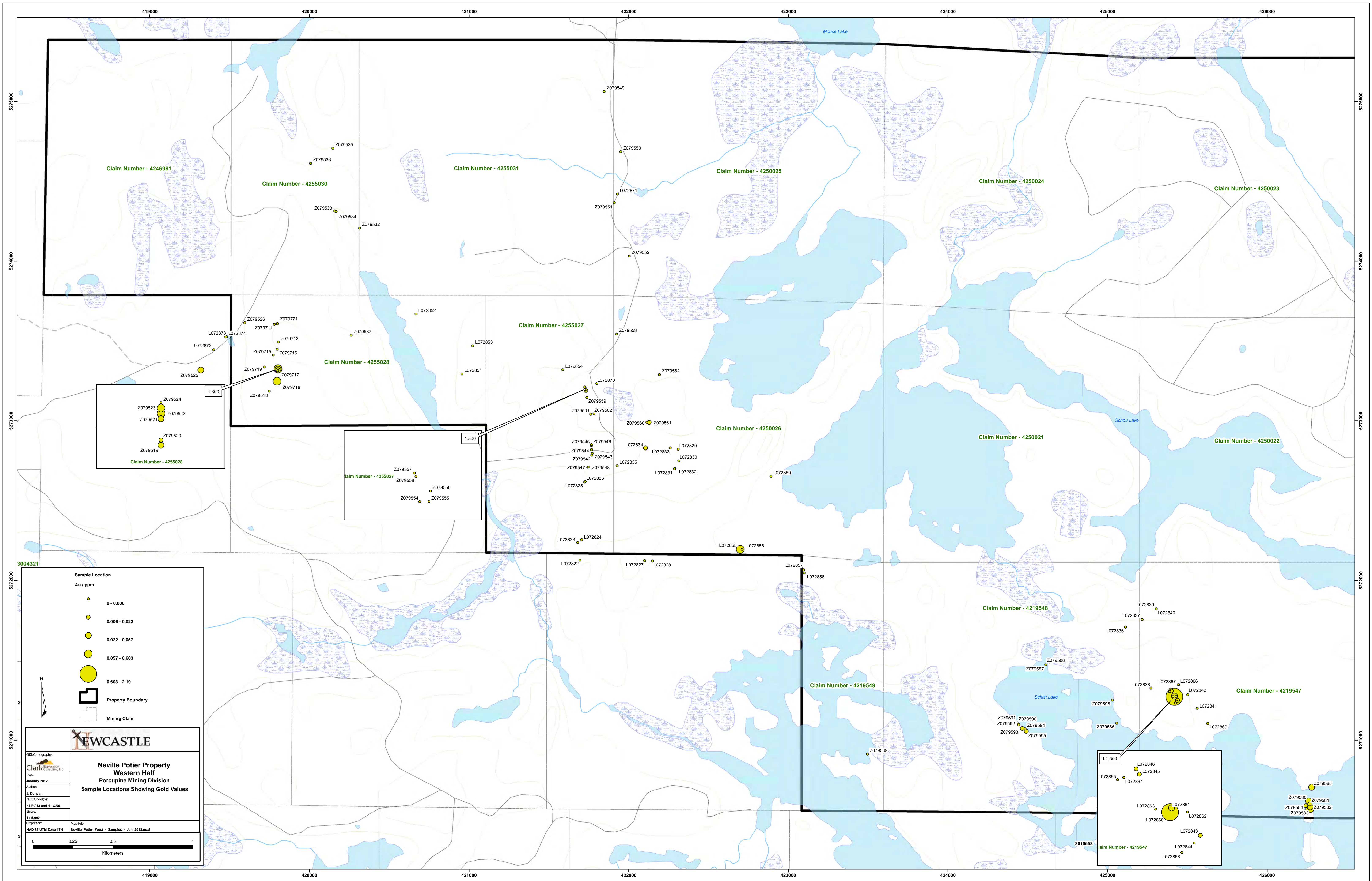
GIS Cartography:  
**Clarke** Exploration  
Consulting Inc.

Date: January 2012  
Author: J. Duncan  
NTS Sheets: 41 P/12 and 41 Q/09  
Scale: 1:10,000  
Projection: NAD 83 UTM Zone 17N  
Map File: Neville\_Potier\_East\_Samples\_Jan\_2012.mxd

0 0.25 0.5 1  
Kilometers

- Sample Location
- Property Boundary
- Mining Claim





Claim Number - 4246981

Claim Number - 4255030

Claim Number - 4255031

Claim Number - 4250025

Claim Number - 4250024

Claim Number - 4250023

Claim Number - 4255027

Claim Number - 4255028

Claim Number - 4250026

Claim Number - 4250021

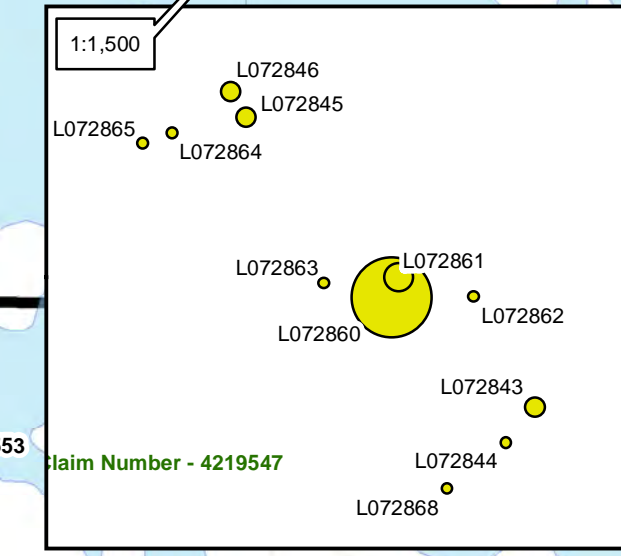
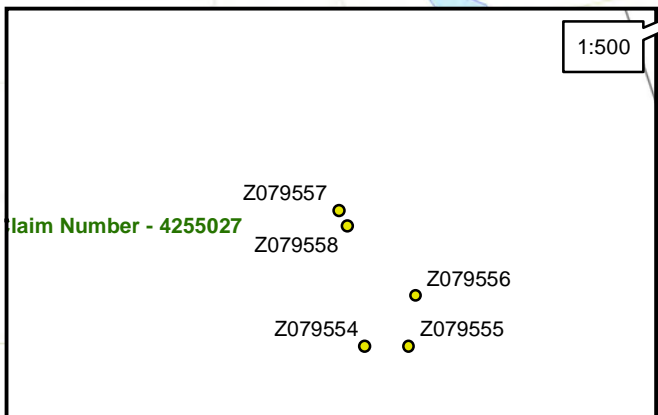
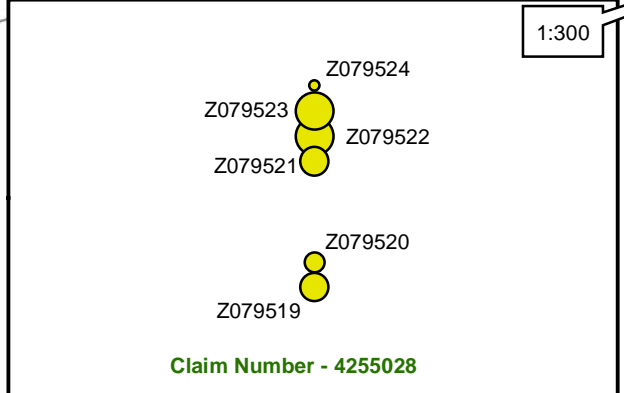
Claim Number - 4250022

Claim Number - 4219548

Claim Number - 4219549

Claim Number - 4219547

Claim Number - 4219547



**Sample Location**

Au / ppm

- 0 - 0.006
- 0.006 - 0.022
- 0.022 - 0.057
- 0.057 - 0.603
- 0.603 - 2.19

Property Boundary

Mining Claim

---

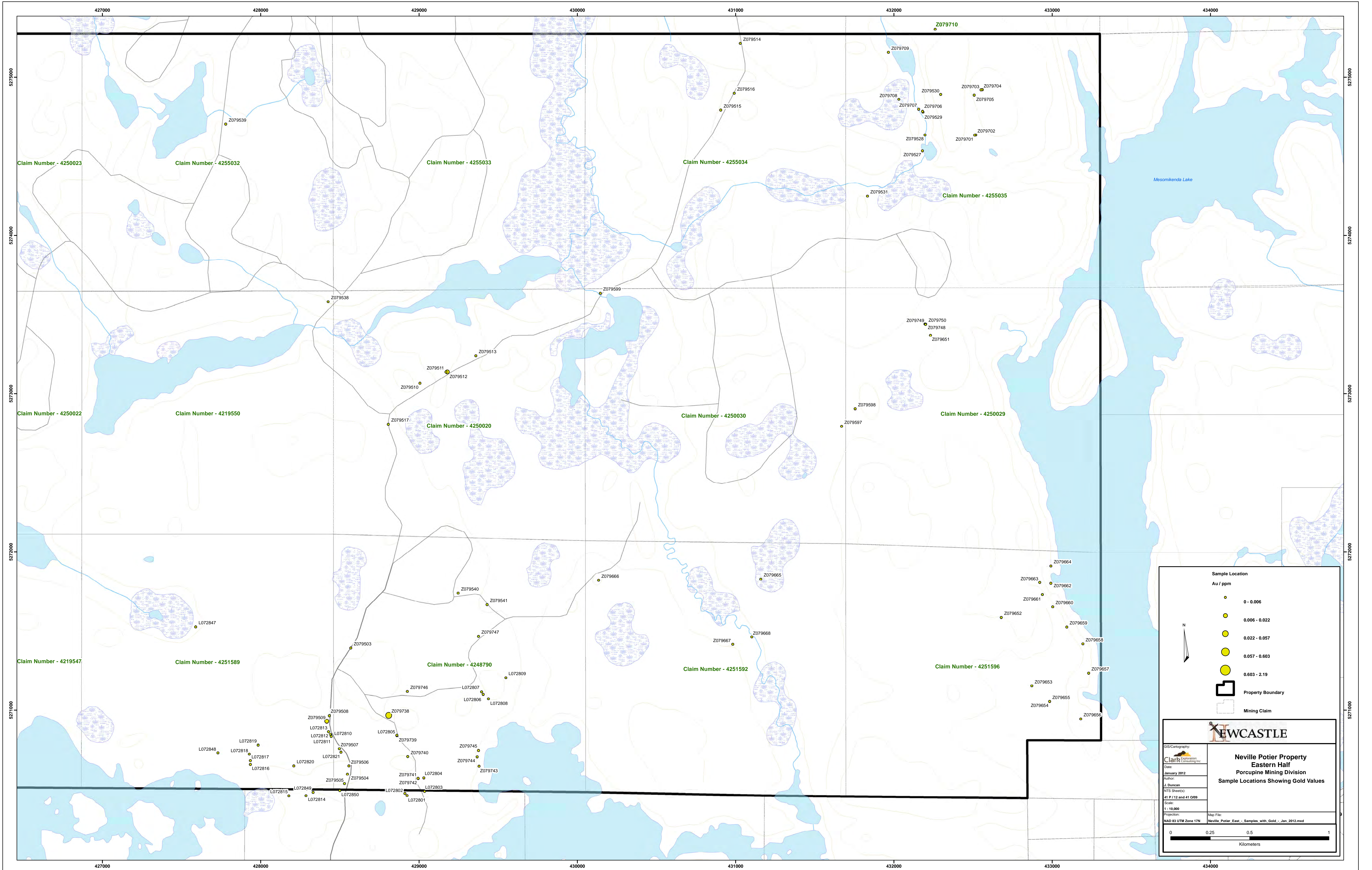
**NEWCASTLE**

GIS Cartography  
 Clarq Exploration  
 Consulting Inc.

**Neville Potier Property  
 Western Half  
 Porcupine Mining Division  
 Sample Locations Showing Gold Values**

Date: January 2012  
 Author: J. Duncan  
 NTS (sheet(s)): 41 P / 12 and 41 O09  
 Scale: 1:5,000  
 Projection: NAD 83 UTM Zone 17N  
 Map File: Neville\_Potier\_West\_Samples\_Jan\_2012.mxd

0 0.25 0.5 1  
 Kilometers



Claim Number - 4250023

Claim Number - 4255032

Claim Number - 4255033

Claim Number - 4255034

Claim Number - 4255035

Claim Number - 4250022

Claim Number - 4219550

Claim Number - 4250020

Claim Number - 4250030

Claim Number - 4250029

Claim Number - 4219547

Claim Number - 4251589

Claim Number - 4248790

Claim Number - 4251592

Claim Number - 4251596

**Sample Location**

**Au / ppm**

- 0 - 0.006
- 0.006 - 0.022
- 0.022 - 0.057
- 0.057 - 0.603
- 0.603 - 2.19

▭ Property Boundary

▭ Mining Claim

---

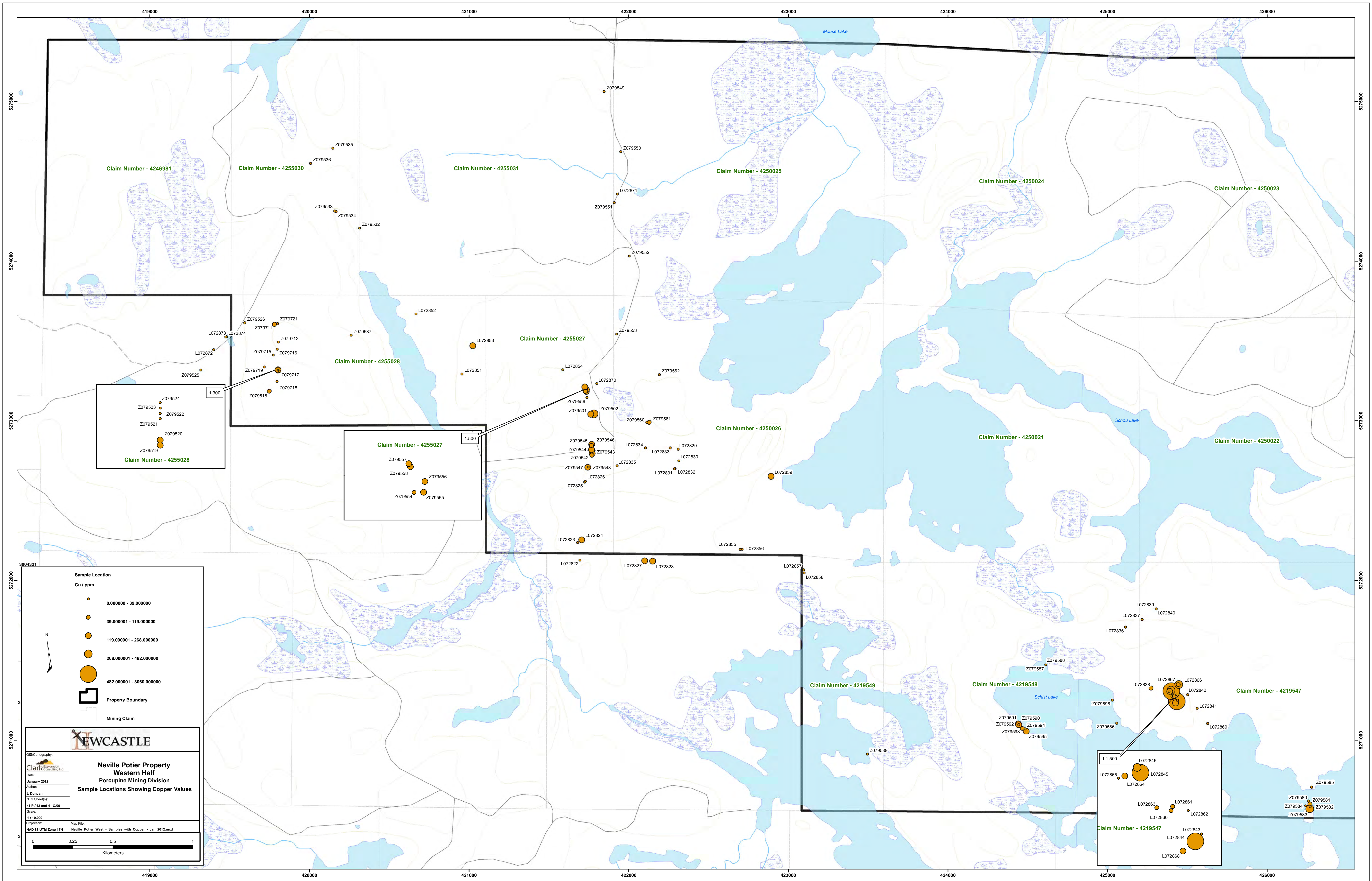
**NEWCASTLE**

GIS Cartography  
 Clarix Corporation  
 Cartography Inc.

Date: January 2012  
 Author: J. Duncan  
 NTS Sheets: 41 P / 12 and 41 Q09  
 Scale: 1 : 10,000  
 Projection: NAD 83 UTM Zone 17N  
 Map File: Neville\_Potier\_East\_-\_Samples\_with\_Gold\_-\_Jan\_2012.mxd

**Neville Potier Property  
 Eastern Half  
 Porcupine Mining Division  
 Sample Locations Showing Gold Values**

0 0.25 0.5 1  
 Kilometers



Claim Number - 4246981

Claim Number - 4255030

Claim Number - 4255031

Claim Number - 4250025

Claim Number - 4250024

Claim Number - 4250023

Claim Number - 4255028

Claim Number - 4255027

Claim Number - 4250026

Claim Number - 4250021

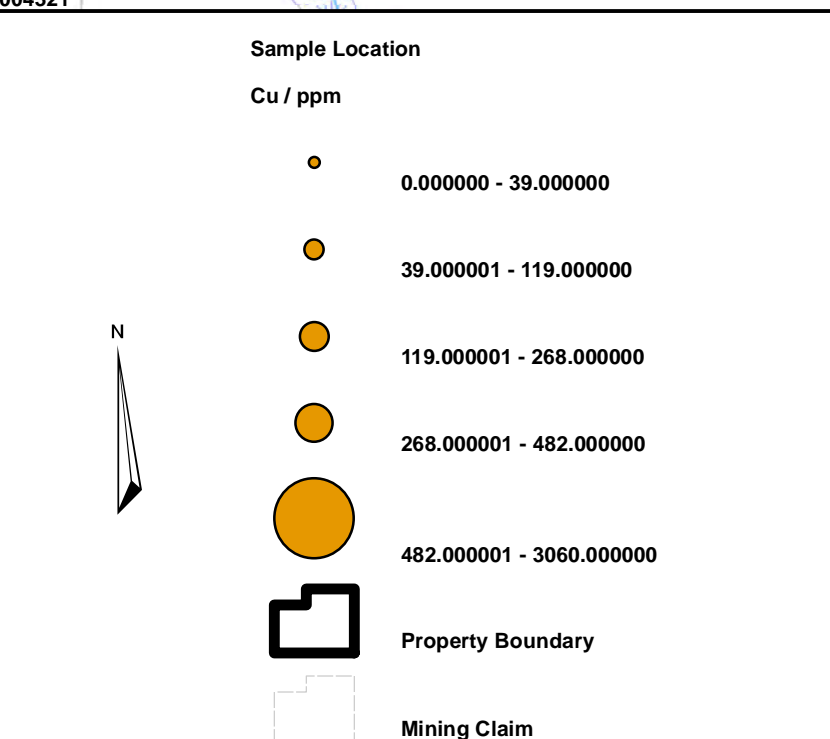
Claim Number - 4250022

Claim Number - 4219549

Claim Number - 4219548

Claim Number - 4219547

Claim Number - 4219547



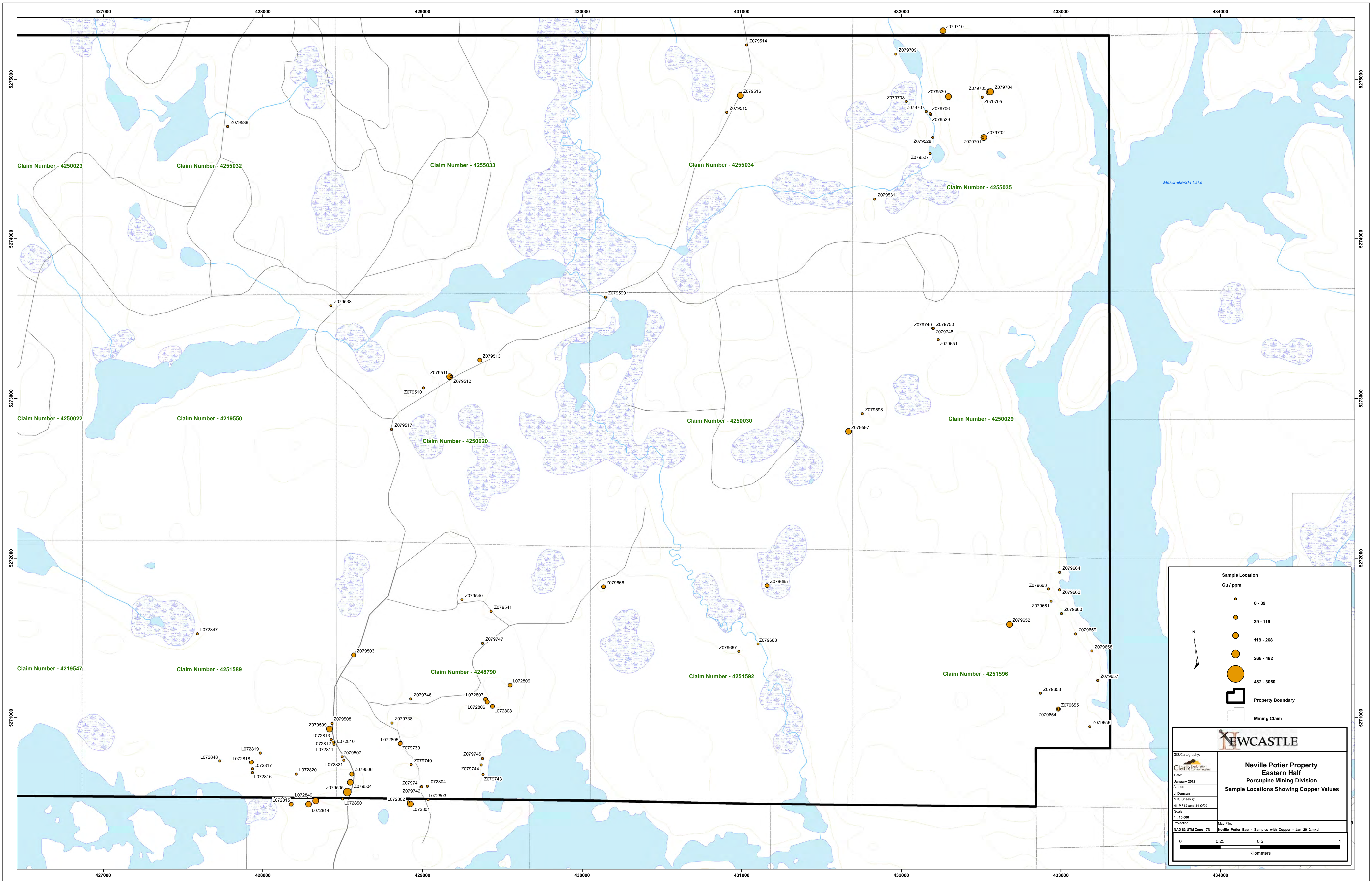
**NEWCASTLE**

GIS Cartography  
Clarke Exploration & Consulting Inc.

**Neville Potier Property  
Western Half  
Porcupine Mining Division  
Sample Locations Showing Copper Values**

Date: January 2012  
Author: J. Duncan  
NTS (Scale): 41 P / 12 and 41 O / 9  
Scale: 1:10,000  
Projection: NAD 83 UTM Zone 17N  
Map File: Neville\_Potier\_West\_Samples\_with\_Copper\_Jan\_2012.mxd

0 0.25 0.5 1  
Kilometers



**Sample Location**

**Cu / ppm**

- 0 - 39
- 39 - 119
- 119 - 268
- 268 - 482
- 482 - 3060

▭ Property Boundary

▭ Mining Claim

**NEWCASTLE**

GIS Cartography  
**Clarke** Exploration & Mining Inc.  
 Date: January 2012  
 Author: J. Dunstan  
 NTS Sheets: 41 P / 12 and 41 O09  
 Scale: 1 : 10,000  
 Projection: NAD 83 UTM Zone 17N  
 Map File: Neville\_Potier\_East\_-\_Samples\_with\_Copper\_-\_Jan\_2012.mxd

**Neville Potier Property  
 Eastern Half  
 Porcupine Mining Division  
 Sample Locations Showing Copper Values**

0 0.25 0.5 1  
 Kilometers

## **Appendix F**

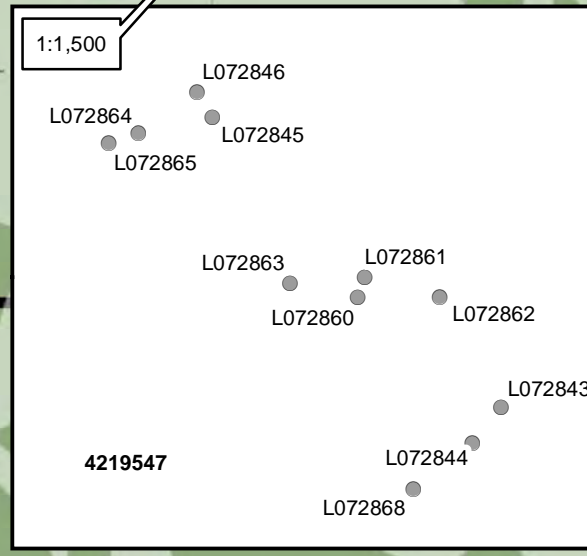
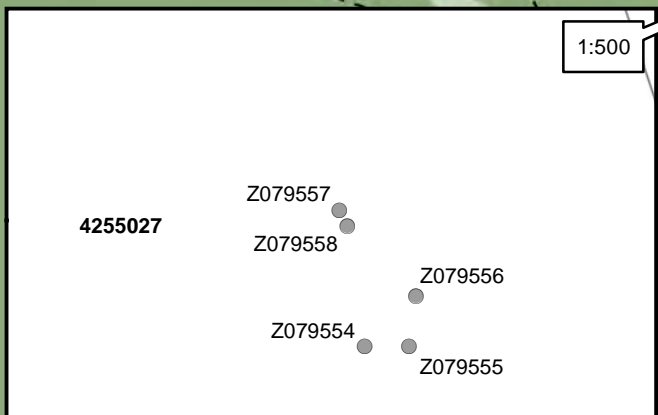
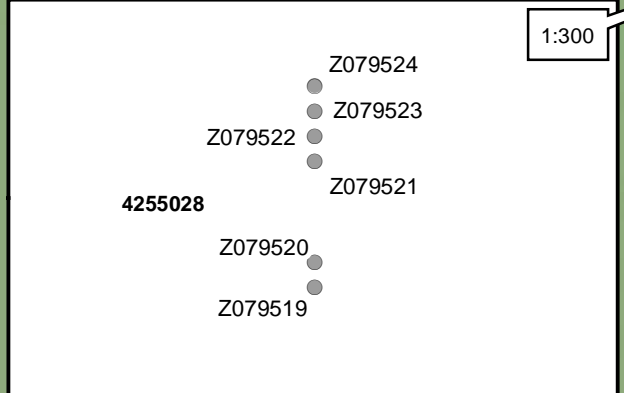
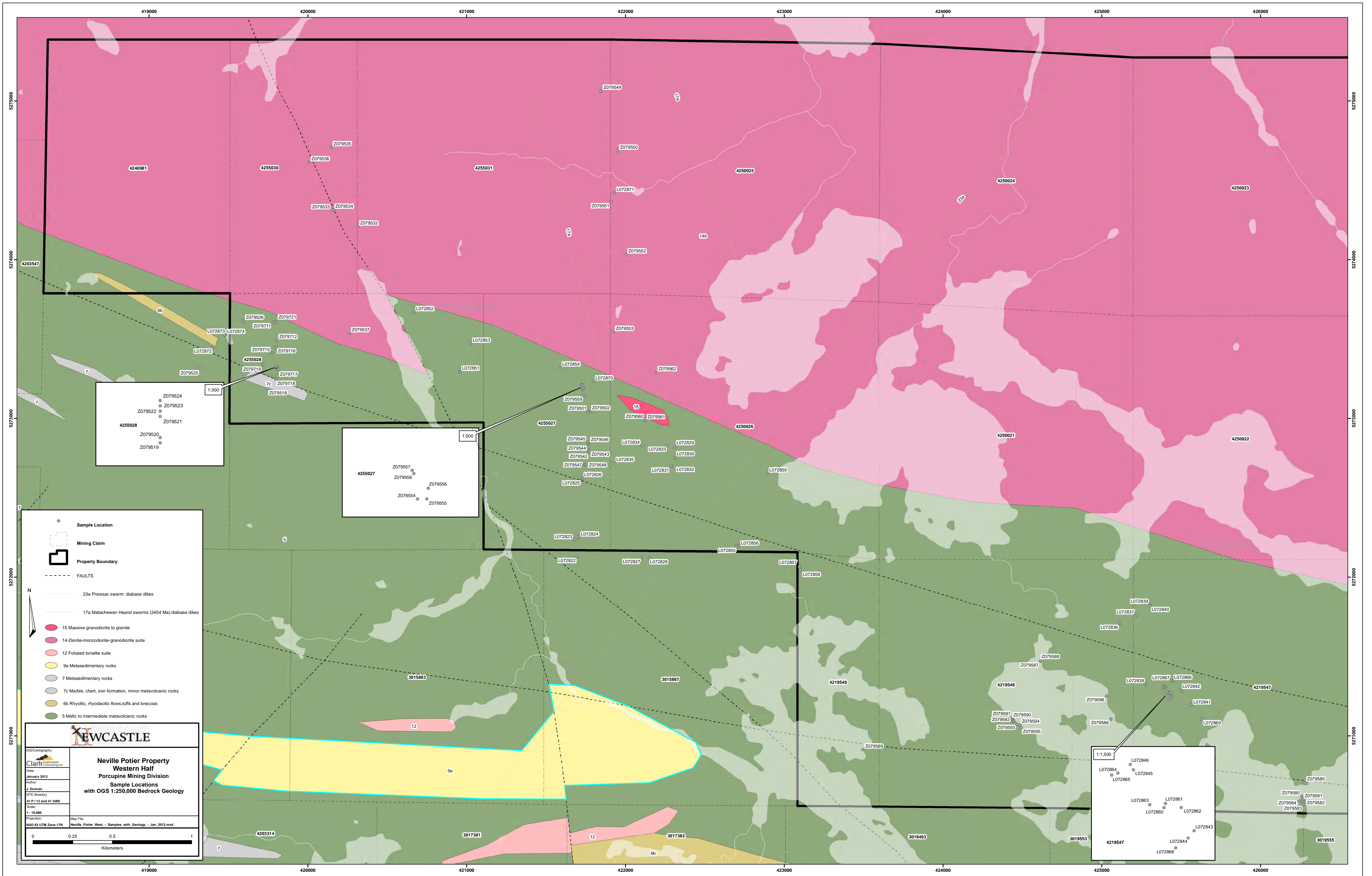
### ***Sample Results with 250k OGS Geology***

6 Maps:

East and West Sample Locations

East and West Gold Values (Proportionate Dot Plots)

East and West Copper Values (Proportionate Dot Plots)



**NEWCASTLE**

GIS Cartography  
Clarke Exploration  
Consulting Inc.

**Neville Potier Property  
Western Half  
Porcupine Mining Division  
Sample Locations  
with OGS 1:250,000 Bedrock Geology**

Date:  
January 2012

Author:  
J. Duncan

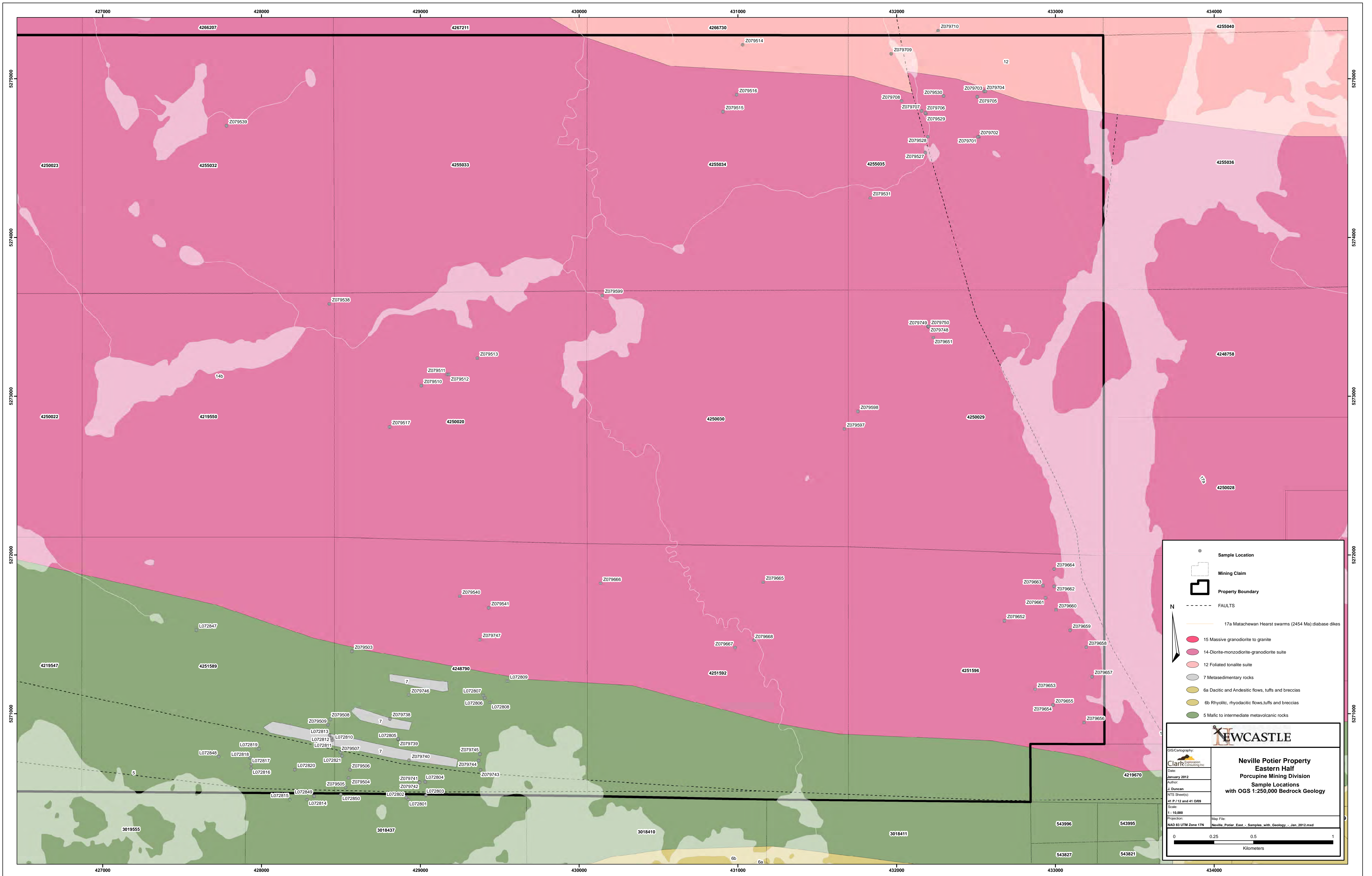
NTS (Sheet(s)):  
41 P / 12 and 41 O09

Scale:  
1:10,000

Projection:  
NAD 83 UTM Zone 17N

Map File:  
Neville\_Potier\_West\_Samples\_with\_Geology\_Jan\_2012.mxd

0 0.25 0.5 1  
Kilometers



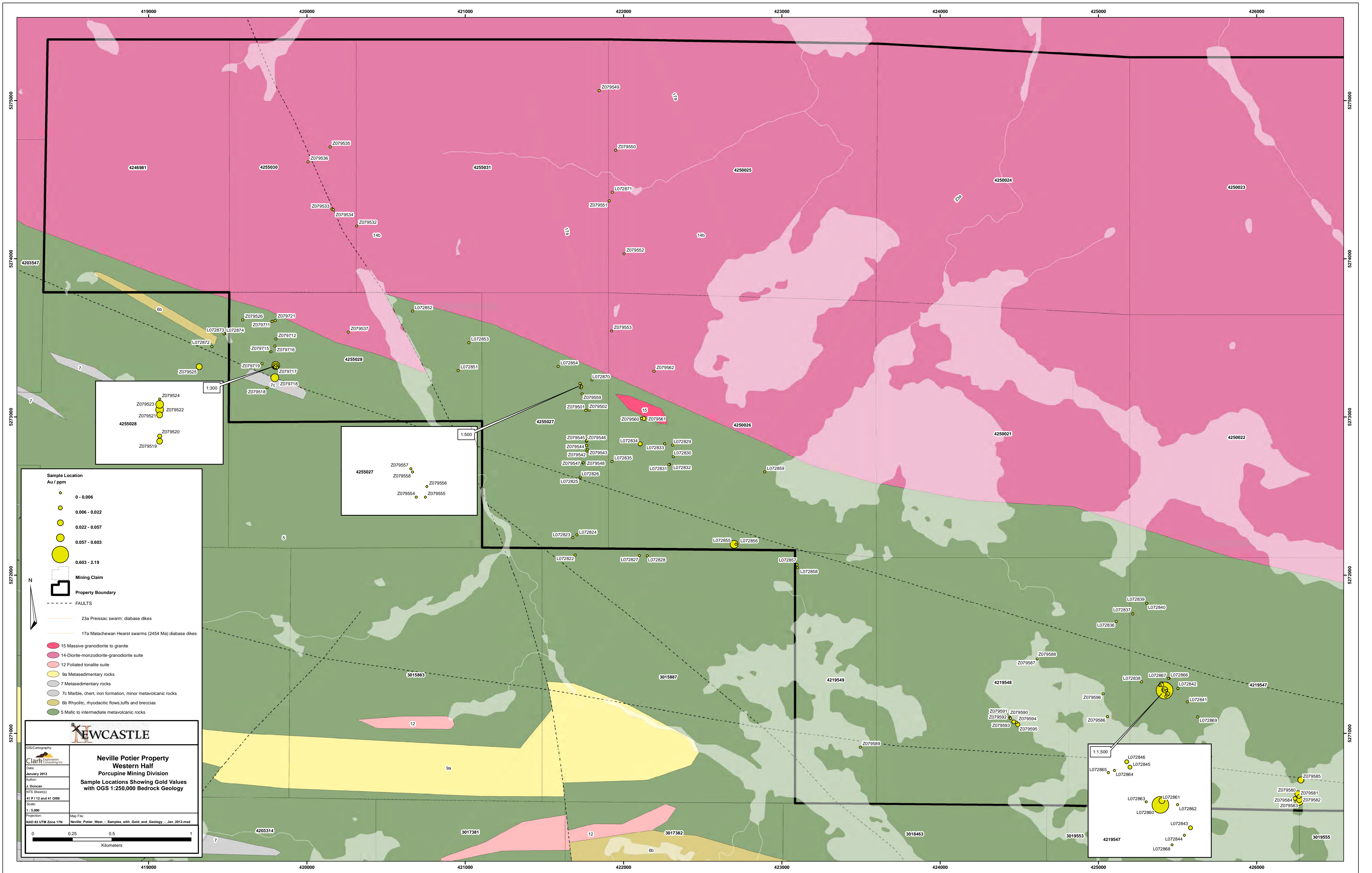
**NEWCASTLE**

GIS Cartography  
 Clarix Corporation  
 4100 17th Avenue S.E.  
 Calgary, Alberta T2C 1S7  
 Canada  
 Phone: (403) 243-1111  
 Fax: (403) 243-1112  
 Website: www.clarix.com

**Neville Potier Property  
 Eastern Half  
 Porcupine Mining Division  
 Sample Locations  
 with OGS 1:250,000 Bedrock Geology**

Date: January 2012  
 Author: J. Dornath  
 NTS Sheet(s): 41 P / 12 and 41 O09  
 Scale: 1:10,000  
 Projection: NAD 83 UTM Zone 17N  
 Map File: Neville\_Potier\_East - Samples with Geology - Jan 2012.mxd

0 0.25 0.5 1  
 Kilometers



**Sample Location Au / ppm**

- 0 - 0.006
- 0.006 - 0.022
- 0.022 - 0.057
- 0.057 - 0.603
- 0.603 - 2.19

**Mining Claim**

**Property Boundary**

--- FAULTS

— 23a Preissac swarm: diabase dikes

— 17a Matachewan Hearst swarms (2454 Ma) diabase dikes

- 15 Massive granodiorite to granite
- 14-Diorite-monzodiorite-granodiorite suite
- 12 Foliated tonalite suite
- 9a Metasedimentary rocks
- 7 Metasedimentary rocks
- 7c Marble, chert, iron formation, minor metavolcanic rocks
- 6b Rhyolite, rhyodacitic flows, tuffs and breccias
- 5 Mafic to intermediate metavolcanic rocks

**NEWCASTLE**

GIS Cartography  
Clarke Exploration Consulting Inc.

**Neville Potier Property**  
Western Half  
Porcupine Mining Division  
Sample Locations Showing Gold Values  
with OGS 1:250,000 Bedrock Geology

Date:  
January 2012

Author:  
J. Duncan

NTS (sheet(s)):  
41 P / 12 and 41 O09

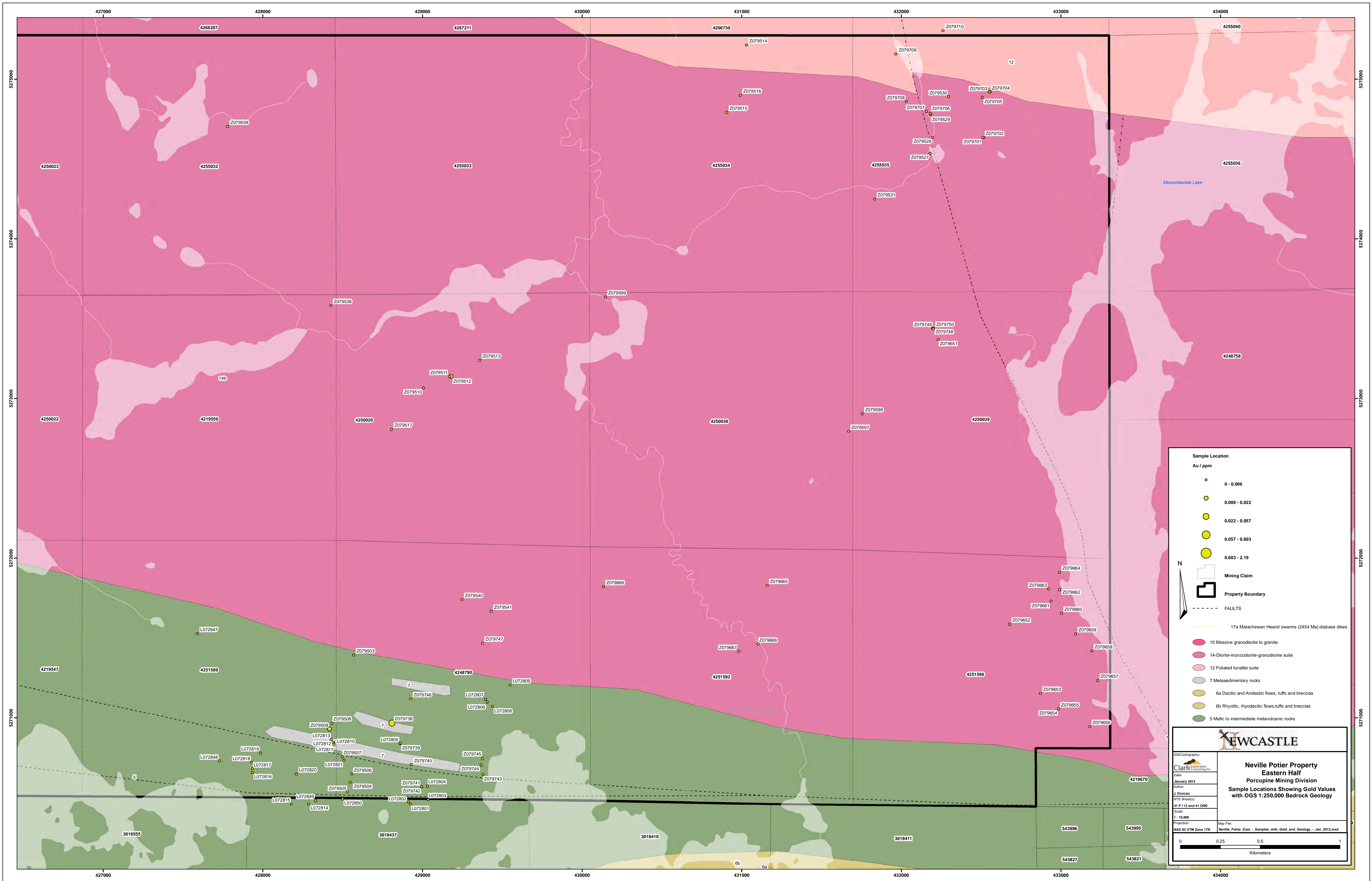
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1:5,000

Projection:  
NAD 83 UTM Zone 17N

Map File:  
Neville\_Potier\_West\_Samples\_with\_Gold\_and\_Geology\_Jan\_2012.mxd

0 0.25 0.5 1  
Kilometers





**Sample Location**

Au / ppm

- 0 - 0.006
- 0.006 - 0.022
- 0.022 - 0.057
- 0.057 - 0.603
- 0.603 - 2.19

**Mining Claim**

**Property Boundary**

**FAULTS**

17a Matachewan Hearst swarms (2454 Ma) diabase dikes

- 15 Massive granodiorite to granite
- 14 Diorite-monzodiorite-granodiorite suite
- 12 Foliated tonalite suite
- 7 Metasedimentary rocks
- 6a Dacitic and Andestic flows, tuffs and breccias
- 6b Rhyolitic, rhyodacitic flows, tuffs and breccias
- 5 Mafic to intermediate metavolcanic rocks

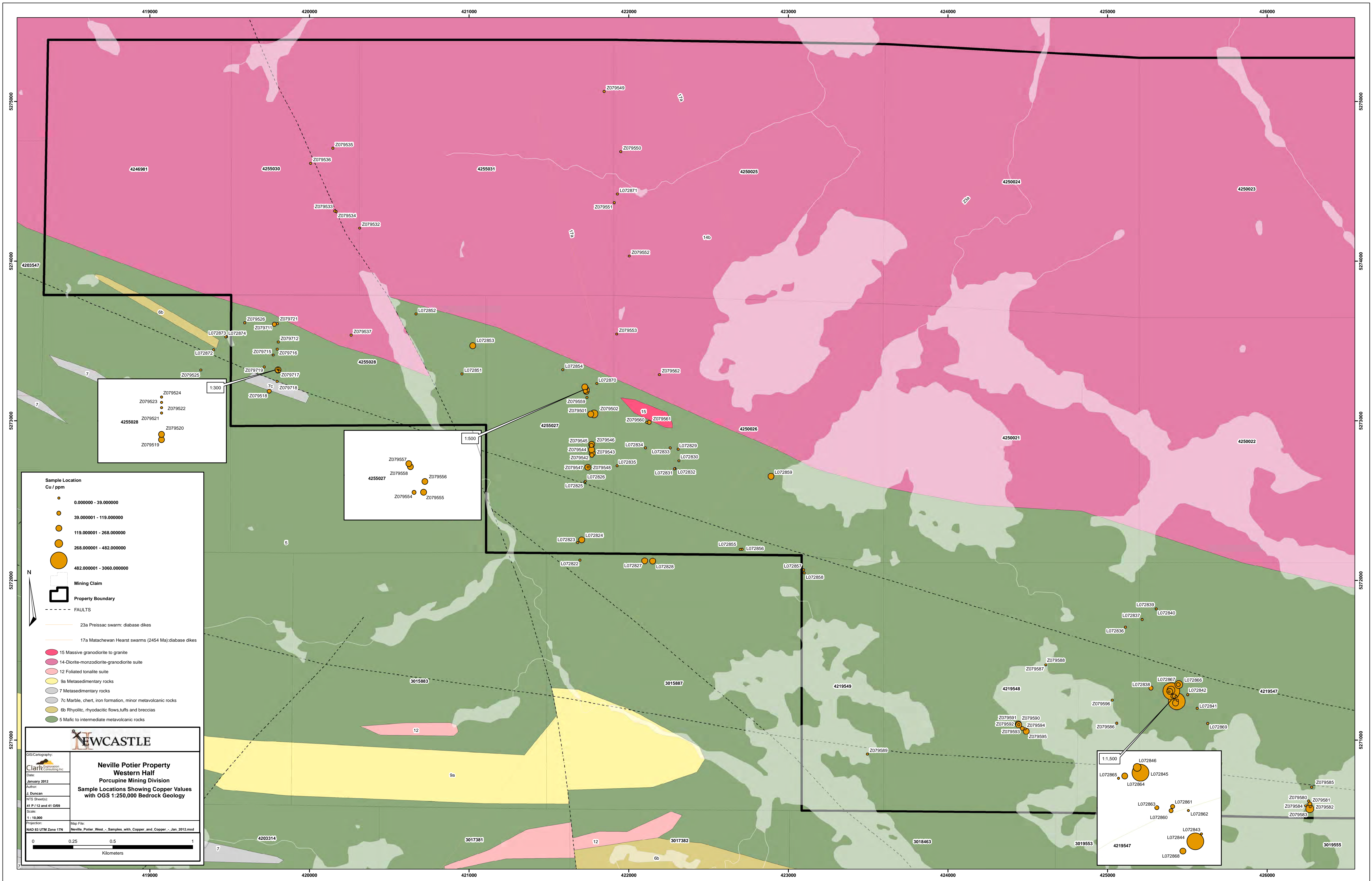
**NEWCASTLE**

GIS Cartography  
 Clarx Corporation  
 Cartography Inc.

**Neville Potier Property  
 Eastern Half  
 Porcupine Mining Division  
 Sample Locations Showing Gold Values  
 with OGS 1:250,000 Bedrock Geology**

Date: January 2012  
 Author: J. Duncanson  
 NTS Sheet(s): 41 P / 12 and 41 Q09  
 Scale: 1:10,000  
 Projection: NAD 83 UTM Zone 17N  
 Map File: Neville\_Potier\_East\_-\_Samples\_with\_Gold\_and\_Geology\_-\_Jan\_2012.mxd

0 0.25 0.5 1  
 Kilometers



**Sample Location**  
Cu / ppm

● (smallest)	0.000000 - 39.000000
● (small)	39.000001 - 119.000000
● (medium)	119.000001 - 268.000000
● (large)	268.000001 - 482.000000
● (largest)	482.000001 - 3060.000000

- Mining Claim
- Property Boundary
- FAULTS
- 23a Proissac swarm: diabase dikes
- 17a Matachewan Hearst swarms (2454 Ma) diabase dikes
- 15 Massive granodiorite to granite
- 14-Diorite-monzodiorite-granodiorite suite
- 12 Foliated tonalite suite
- 9a Metasedimentary rocks
- 7 Metasedimentary rocks
- 7c Marble, chert, iron formation, minor metavolcanic rocks
- 6b Rhyolite, rhyodacitic flows, tuffs and breccias
- 5 Mafic to intermediate metavolcanic rocks

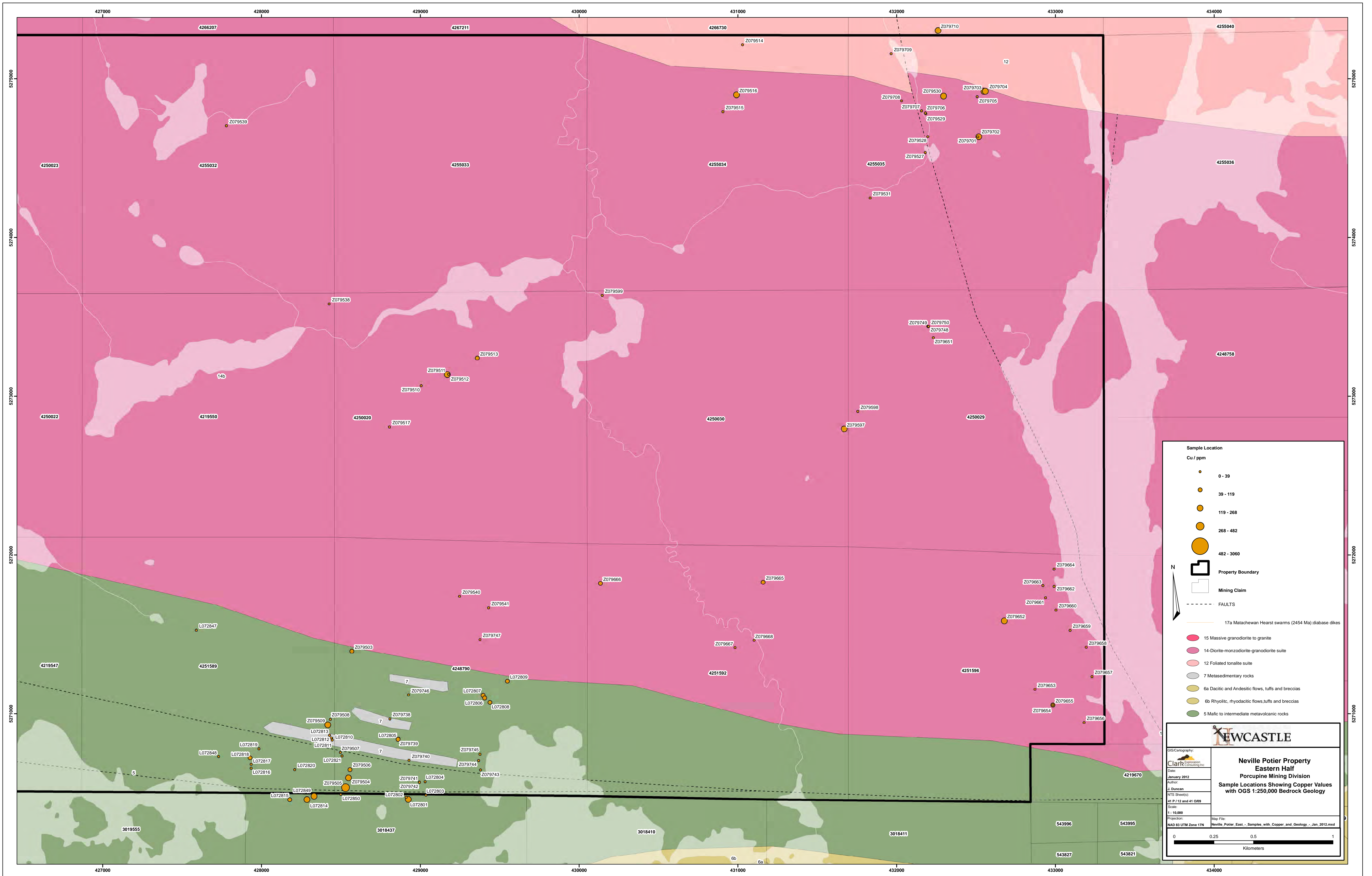
**NEWCASTLE**

GIS Cartography  
Clarke Exploration & Consulting Inc.

**Neville Potier Property**  
Western Half  
Porcupine Mining Division  
Sample Locations Showing Copper Values  
with OGS 1:250,000 Bedrock Geology

Date: January 2012  
Author: J. Duncan  
NTS (Sheet(s)): 41 P / 12 and 41 O09  
Scale: 1:10,000  
Projection: NAD 83 UTM Zone 17N  
Map File: Neville\_Potier\_West\_Samples\_with\_Copper\_and\_Copper\_-\_Jan\_2012.mxd

0 0.25 0.5 1  
Kilometers



**Sample Location**

**Cu / ppm**

- 0 - 39
- 39 - 119
- 119 - 268
- 268 - 482
- 482 - 3060

Property Boundary  
 Mining Claim  
 FAULTS  
 17a Matachewan Hearst swarms (2454 Ma) diabase dikes

15 Massive granodiorite to granite  
 14-Diorite-monzodiorite-granodiorite suite  
 12 Foliated tonalite suite  
 7 Metasedimentary rocks  
 6a Dacitic and Andestic flows, tuffs and breccias  
 6b Rhyolitic, rhyodacitic flows, tuffs and breccias  
 5 Mafic to intermediate metavolcanic rocks

N  
 0 0.25 0.5 1 Kilometers

**Neville Potier Property**  
**Eastern Half**  
**Porcupine Mining Division**  
**Sample Locations Showing Copper Values**  
**with OGS 1:250,000 Bedrock Geology**

GIS Cartography:  
 Claris Corporation  
 Date: January 2012  
 Author: J. Bonatti  
 NTS Sheets: 41 P / 12 and 41 Q09  
 Scale: 1 : 10,000  
 Projection: NAD 83 UTM Zone 17N  
 Map File: Neville\_Potier\_East\_-\_Samples\_with\_Copper\_and\_Geology\_-\_Jan\_2012.mxd