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# **Assessment Report**

Lebel Township

Unpatented Mining Claims

191320,198762,214637,287152,330005

NAD 83, UTM 17 N

Lake Bottom Sediment Sampling

December 2020

T.A. O'Connor

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# Introduction

On August 30th a work program consisting of lake bottom soil sampling was conducted by T.A. O'Connor on a group of unpatented mining claims covering Crystal Lake located in Lebel Township in the Larder Lake Mining Division in the province of Ontario, Canada.

# Location and Access

The claim block is located just east of Kirkland Lake, Ontario (see Figure 1) a distance of approximately 12 kms. The property is located within the lower limits of the Abitibi Greenstone Belt which is world renowned for its gold, silver, copper and nickel deposits. The claim group can be easily accessed as demonstrated in Figure 1

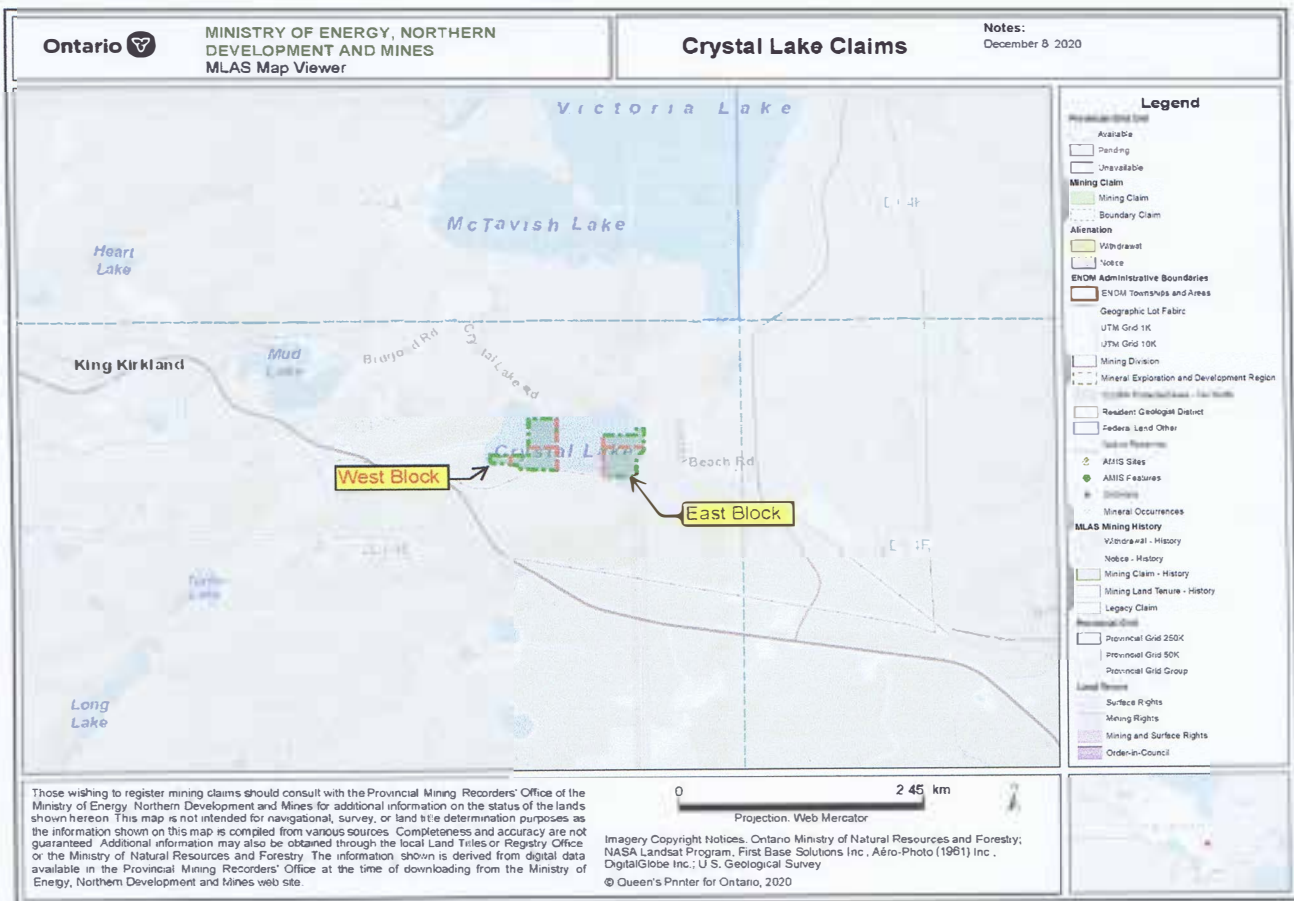


Figure 1-Location and Access

# Property Description

The Property consists of 2 claim groups, an East Block and a West Block as shown in Figure 2

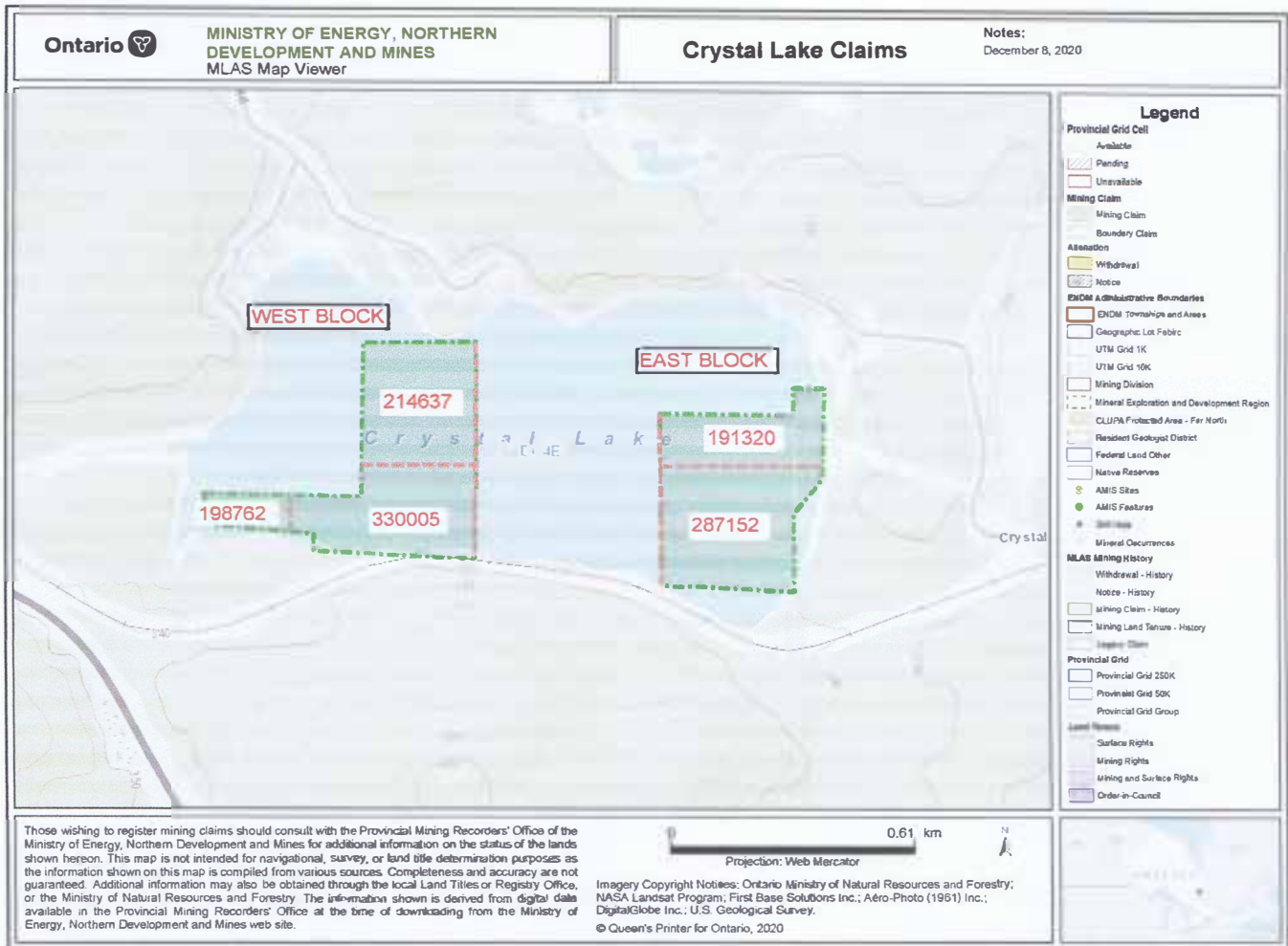


Figure 2-Property Description

The claims are described in the Table shown below.

Legacy Claim Id	Township / Area	Tenure ID	Tenure Type	Anniversary Date	Tenure Status	Tenure Percentage	Work Required
4209239	GAUTHIER,LEBEL	191320	Boundary Cell Mining Claim	2022-05-10	Active	100	200
4225601	LEBEL	198762	Boundary Cell Mining Claim	2021-05-12	Active	100	200
4209237	LEBEL	214637	Boundary Cell Mining Claim	2020-05-10	Active	100	200
4209239	GAUTHIER,LEBEL	287152	Boundary Cell Mining Claim	2022-05-10	Active	100	200
4209237	LEBEL	330005	Boundary Cell Mining Claim	2021-05-12	Active	100	200
<b>5 CELLS</b>							<b>\$1,000</b>

## Topography and Climate

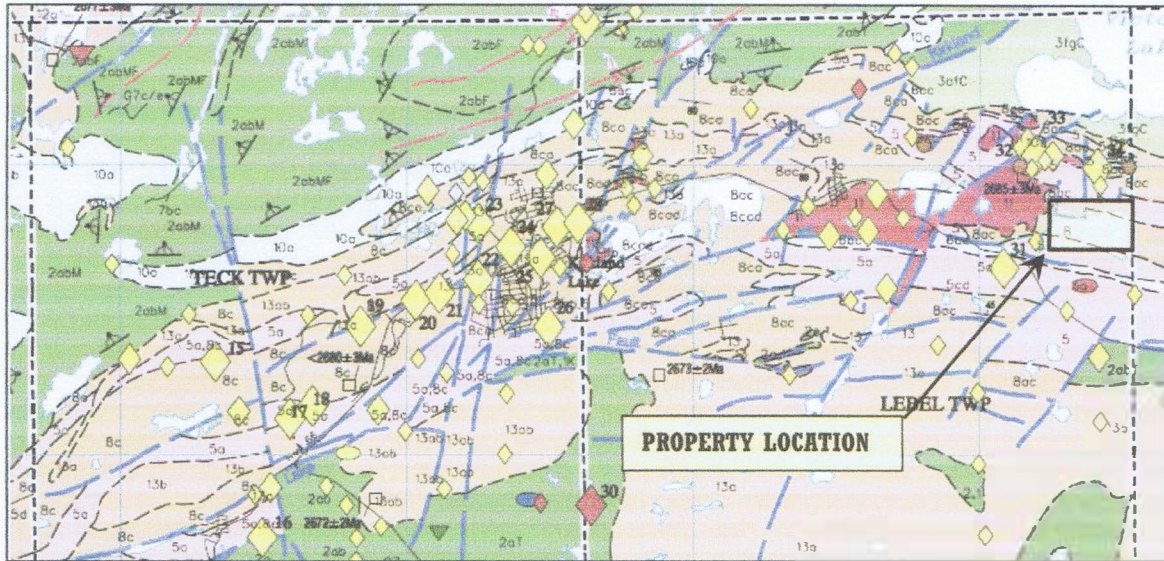
**Physiography:** The project area lies within the central Canadian Shield in the lower Abitibi geologic sub-province. The region can be generalized as being in the boreal climactic region, characteristically covered by forest, swamps and lakes with some relief. Relief on the property ranges from 330m to 390m. The claim group has moderate bedrock exposure and generally thick overburden.

**Climate:** The climatic conditions are typical for the central Canadian Shield with short, mild summers and long, cold winters. Mean temperatures range from -17°C (0°F) in January, to 18°C (64°F) in July, and mean annual precipitation throughout the region ranges from 812 to 876mm (32-35inch.).

## Previous Work

Lebel Township has seen a great deal of exploration work since gold was first discovered in the Kirkland Lake area. Numerous prospects have been explored off and on based on commodity prices for the past century. Because the claim group overlays Crystal Lake, very little work has been performed over the property. The following is a brief account of the previous work carried out on the claims.

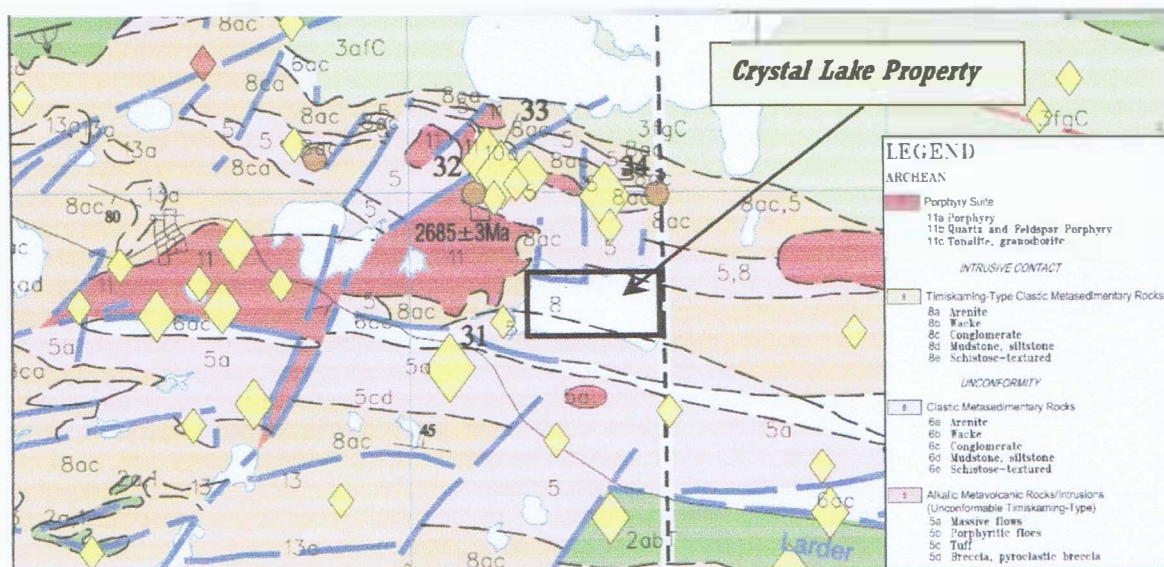
<u>File No.</u>	<u>Year of Work</u>	<u>Type of Work</u>	<u>Ownership</u>
P.2264	1979	Airborne MAGNLF	O.G.S
KL 1598	1988	Airborne MAGNLF	M. Leahy, A. Black
KL 5951	2008	GEOCHEM	T.A. O'Connor
KL 6294	2009	PROSP	T.A. O'Connor
KL 6326	2009	PROSP	T.A. O'Connor



After: O.G.S. Map 3425

Figure 3-“Regional Geology”

**Property Geology:** The Crystal Lake property as interpolated by OGS Map 3425 (See Figure 4) falls almost entirely within Timiskaming-type clastic metasedimentary rocks. The south west corner of the property may contain the contact between the metasedimentary rocks to the north and the alkalic metavolanic rocks / intrusives to the south. There are several north-south trending faults and the possibility of a north east-south west trending fault that would cross onto the Crystal Lake Property.



After: O.G.S. Map 3425

Figure 4-“Property Geology”

## **Geology**

***Regional Geology:*** The Crystal Lake property lies in the Superior Geological province and the Abitibi subprovince. The Abitibi subprovince is an 800 by 300 kilometer area underlain by granite greenstone stratigraphy of Archean age. In the Archean of northern Ontario, the supracrustal rocks are divided into rock packages based on their composition, morphology and geographic distribution. Individual "assemblages" consist of stratified volcanic and/or sedimentary rock units built during a discrete interval of time in a common depositional or volcanic setting. According to R. Rupert and H. Lovell the geology in the project area from oldest to youngest is comprised of Keewatin type mafic and felsic volcanic flows, Keewatin or Laurentian age early felsic intrusive rocks, Keewatin or Timiskaming metasediments, Haileyburian type mafic and ultramafic intrusive rocks, Algoman age late felsic intrusive rocks, finally late mafic intrusive rocks. See Figure 3

***Property Geology:*** The Crystal Lake property as interpolated by OGS Map 3425 falls almost entirely within Timiskaming-type elastic metasedimentary rocks. The south west corner of the property may contain the contact between the metasedimentary rocks to the north and the alkalic metavolcanic rocks / intrusives to the south. There are several north-south trending faults and the possibility of a north east-south west trending fault that would cross onto the Crystal Lake Property. See Figure 4

## **Work Program**

On August 30<sup>th</sup>, 2020 the author collected 6 samples near the south west shore of Crystal Lake. See figure 5-Sample Location Plan. Crystal Lake is approximately 7km east of the Town of Kirkland Lake. A list of samples along with descriptions and location can be seen in the Table below. The 6 samples were brought to Actlabs in Timmins for gold assay.



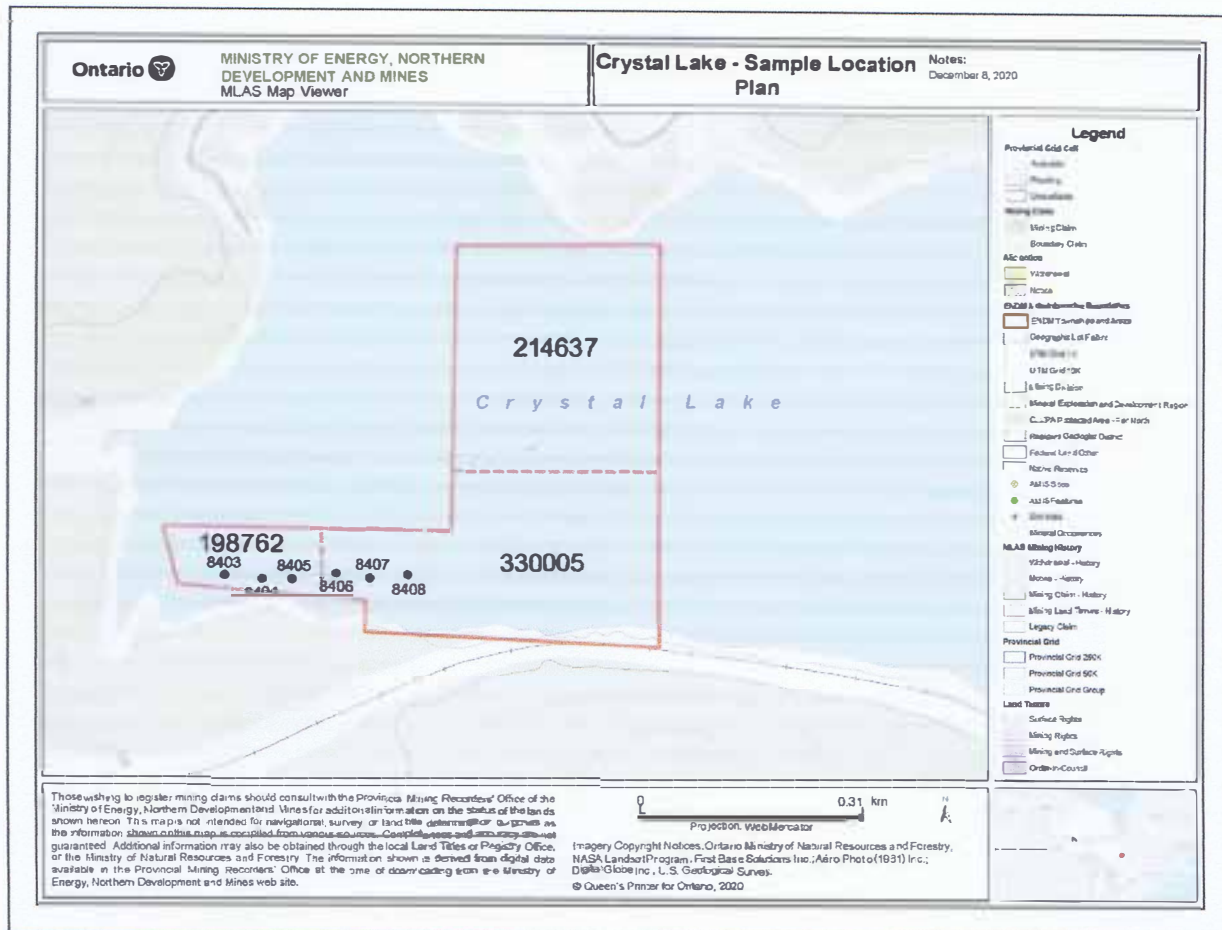


Figure 5-Sample Location Plan

**Crystal Lake Project Sample Descriptions and Locations**

Sample #	Description	Location (UTM 17N)	
8403	dark black loam, organic material present	581208 E	5333865 N
8404	dark black loam, organic material present	581260 E	5333860 N
8405	dark black loam some fine sand & organics,	581301 E	5333859 N
8406	Some black loam, fine tan coloured sand,	581362 E	5333868 N
8407	very fine sand, tan in colour, some small pebbles, <1mm	581408 E	5333861 N
8408	fine sand, tan in colour, some small pebbles, <1mm	581460 E	5333866 N

## **Conclusions and Recommendations**

This program was to test a portion of the lake bottom near shore to scope the procedure for more planned sampling program on other parts of the claim blocks.

# APPENDIX

**References:**

**O.G.S. Map P.3425, 2000, "Geological Compilation of the Kirkland Lake Area, Abitibi Greenstone Belt"**

**O.D.M. Bulletin 150, 1956, A. MacLean "Geology of Lebel Township"**

## STATEMENT OF QUALIFICATIONS

I, **Tom O'Connor**, of 14-150 Burnside Drive, Kirkland Lake, Ontario,  
do hereby certify that:

1. I am a Prospector and have been practicing my profession for the past 30 years.
2. My knowledge of the property described herein was obtained by fieldwork and documentation.
3. I am qualified to author this report.

Respectfully submitted,



Tom A. O'Connor



Report No.: A20-15493
Report Date: 10-Dec-20
Date Submitted: 02-Dec-20
Your Reference: December 2nd 2020

Thomas OConnor
P.O. Box 834
Kirkland Lake Ontario

ATTN: Thomas OConnor

CERTIFICATE OF ANALYSIS

6 Lake Sediments samples were submitted for analysis.

Table with 2 columns: The following analytical package(s) were requested, Testing Date. Row 1: 1A2-Timmins, GOP AA-Au (Au - Fire Assay AA), 2020-12-10 14:05:55

REPORT A20-15493

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3.

CERTIFIED BY:

Handwritten signature of Emmanuel Eseme

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
8403	< 5
8404	7
8405	5
8406	< 5
8407	< 5
8408	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
Oreas 237 (fire Assay) Meas	2290
Oreas 237 (fire Assay) Cert	2210
Oreas E1336 (Fire Assay) Meas	521
Oreas E1336 (Fire Assay) Cert	510
Method Blank	< 5
Method Blank	< 5