

Report on Prospecting at Claim 4273901
on the Kirkland Lake Basin Property
Teck Township
Larder Lake Mining Division

May 14, 2015

2-55999

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Introduction

This report is written for submission to the Ministry of Northern Development and Mines to fulfill the assessment work requirements for part of the historic Kirkland Lake Basin property. This report summarizes the activities completed in the period of May 10, 2015 on the un-patented mining claim 4273901. This report was prepared by Christopher A. L. Clarke under supervision from Mark Masson, P.Geol, both of whom are employees of Canadian Malartic Corporation.

Summary

The claim 4273901 in Teck Township is associated with the historic Kirkland Lake camp, notably the Lakeshore and Teck-Hughes mines but it has mainly been known for being the site for historic mine tailings from several mines in the Kirkland Lake camp. The claim is held by Canadian Malartic Corporation and it is contiguous with several claims which Canadian Malartic also holds (1242952 & 1242943). Claim 4273901 was newly staked in 2013 and as such has no assessment work filed. Workers for Canadian Malartic conducted a prospecting and sampling program to fulfill the work requirements of the claim. Historically, the property has been the focus of extensive tailings deposition and subsequent tailings reprocessing.

Property Descriptions and Access

The property, claim 4273901, is situated along the northern edge of the Town of Kirkland Lake in Teck Township, District of Temiskaming, Larder Lake Mining Division, Ontario, Canada (Figure 2). Claim 4273901 can be accessed by exiting west from Goodfish Rd onto a dirt road/hydro line approximately 600m from the intersection of Duncan Ave and Goodfish Rd and proceeding 1.7km along the dirt road. The property is immediately north of the Kirkland Lake Basin which was historically drained and used to store mine tailings. The claim is composed of one, un-patented unit roughly 16 hectares in size. The

surface right owner (SRO claim # L2891) is the Town of Kirkland Lake. The claim incorporates part of the actual Kirkland Lake which was been remediated and now has been re-flooded.



Figure 1: Location of Teck Township relative to the Province of Ontario; where the claims 4272931 and 4273901 are located.

History

Claim 4273901 was staked on June 24, 2013. No previous assessment has been reported on the claim, but the property has been part of an active mine tailings program resulting in extensive modification of the property. The most recent work conducted immediately adjacent to claim 4279231 was reported by Vault Minerals in 2006 and published in 2013 under assessment files AFRI# 20000001685 and 20000001686. The Vault Minerals work was designed to assess the Kirkland Basin and Federal Kirkland historic properties. Vault Minerals was 100% acquired by Queenston Mining Inc. which in turn was 100% acquired by Osisko Mining Ltd and was then acquired by a 50-50% agreement between Agnico Eagle and Yamana Gold who formed the Osisko properties into the Canadian Malartic Corporation. Vault Minerals conducted a mapping and sampling program on their claims on the Federal Mine property.

The historic mine tailings from the Lakeshore and Teck-Hughes mine were stored in the Kirkland Lake Basin. The tailings were re-processed in the 1980-90's by several companies, notably East Mac and Kirkland Lake Gold. The excavation of the mine tailings led to extensive reworking of the surface geography.

Drilling and prospecting is extensive in the area surrounding the claim and appears to have been primarily performed by the Harrington family.

Property Geology

The claim 4272931 is situated within the prolific Kirkland Lake gold camp which is part of the Abitibi Greenstone belt in the Superior Province. The Abitibi Greenstone belt is Archean in age and is composed of greenschist facies volcanic and sedimentary rocks with localized syn-post tectonic intrusions of granitic to dioritic dykes to batholiths. The Abitibi Greenstone belt forms an east plunging

synclinorium between the Abitibi batholith, northeast of Timmins and the Round Lake batholith, south of Kirkland Lake. Mesozoic aged kimberlitic dykes are also present in the Kirkland Lake Camp but are rare in occurrence. The Kirkland Lake Camp hosts Keewatin (2750-2700 Ma) and Temiskaming (2690-2670 Ma) aged assemblages associated with the Abitibi Greenstone belt. The Keewatin assemblages within the Kirkland Lake Camp are composed of the greenschist facies volcanoclastic-sedimentary lithologies of the: Pacaud, Deloro, Stoughton-Roquemaure, Kidd-Munro, Tisdale, Kinojevis, and Blake River groups. The Temiskaming assemblage within the Kirkland Lake camp is the Temiskaming group, noted for its non-marine, variably metamorphosed, pyroclastic and clastic-sedimentary (conglomerate) lithological units. Temiskaming group meta-sedimentary rocks form along the north facing side of the Larder Lake-Cadillac Deformation Zone (LLCDZ), a major east-west structural control associated with chemical alteration and sulphide mineralization. The LLCDZ length coincides with a folded and deformed sinuous belt of sedimentary rocks of Temiskaming age.

Local mapping conducted by the Ontario Geological Survey shows that the claim 4273901 hosts Temiskaming meta-sediments and a mafic intrusive suite (Figure 3). The Temiskaming sediments are present in the south of the claim while the mafic intrusives (gabbro) are in the north of the claim. The contact appears to be striking northeast. The Teck township geology map (OGS publication: M1945-01) instead shows Algonian aged gabbro in the north and southwest corners, Keewatin aged greenstone basalt in the south/centre and a thin exposure of Temiskaming meta-sediments along the northern shore of the Kirkland Basin. To the North of the claim are a series of Keewatin aged basic volcanics (greenstone). To the south are a series of Temiskaming meta-sedimentary units and felsic-intermediate intrusives (syenite-diorite).

General Description of Sampled Rock Units

Fresh gabbro

Grain Size: medium, euhedral and equigranular

Texture: massive

Alteration: Fresh and grey coloured

Mineralization: none visible

Magnetism: none

Veining: non-observed

Greenstone facies basalt

Grain Size: Fine, euhedral and equigranular

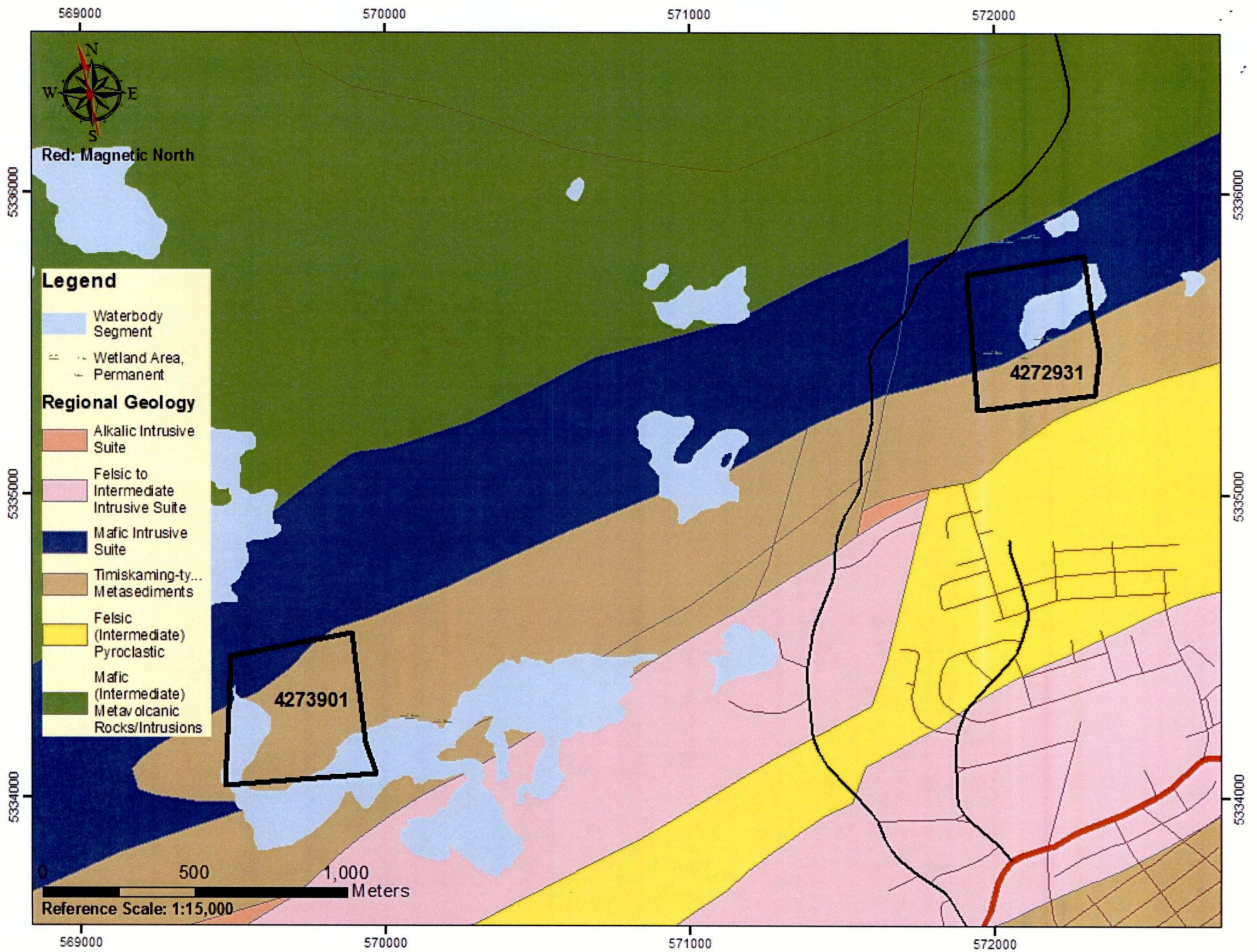
Texture: massive to flow banded

Alteration: Generally fresh with weak chlorite-carbonate alteration

Mineralization: trace abundant, <1-1mm anhedral pyrite disseminated within matrix and chlorite fracture-fill

Magnetism: weak

Veining: There are <1% abundant, <1-3mm thick, milky quartz-carbonate stringers and <1% abundant discontinuous black chlorite fracture-fill



Description of Recent Work

The work conducted by Canadian Malartic was prospecting, sampling and limited mapping. The goal of the work was to gain an understanding of the geology of the claim, identify historic trenches and pits, map outcrops, gather samples for gold and major-trace element abundances, and recording the locations using a GPS. By referring to the prospecting section; one can see the geology is primarily a gabbro situated in the north of the claim and greenstone facies basalt in the south of the claim. The contacts between the gabbro and basalt are hidden beneath the pond/swamp which dominates the centre and northeast of the claim. A total of 9 grab samples (plus a blank and standard for QA/QC purposes) were collected on the property and sent for major oxide, trace element (reported separately) and gold assay to ALS minerals (see attached certificates).

Conclusions and Recommendations

A grid should be established in a low impact manner to reduce disturbance of the environment and residents. Following the establishment of a grid a magnetometer survey and limited stripping should be conducted pending the geochemical results of the grab sample analysis.



Respectfully Submitted,

Christopher A. L. Clarke

Data

The work was carried out as follows:

Field:

Prospecting May 10, 2015

Office:

Report May 14, 2015

Persons who carried out the work:

Prospecting:

Christopher A.L. Clarke Larder Lake, On

Report:

Christopher A.L. Clarke

Sample List Sample List (UTM zone 17 NAD 83)

Waypoint	Northing	Easting	Rock Type
L767589	5334083.093	569678.6293	Basalt
L767590	5334111.025	569772.2306	Basalt
L767591	5334263.002	569764.4263	Basalt
L767592	5334203.703	569641.9045	Basalt
L767593	5334133.193	569584.4497	Basalt
L767594	5334329.423	569677.8595	Gabbro
L767595	5334447.742	569672.1042	Gabbro
L767596	5334420.103	569575.0088	Basalt
L767597	5334294.602	569657.4581	Basalt

May 10, 2015 – 1 Day Prospecting

Workers: Christopher Clarke

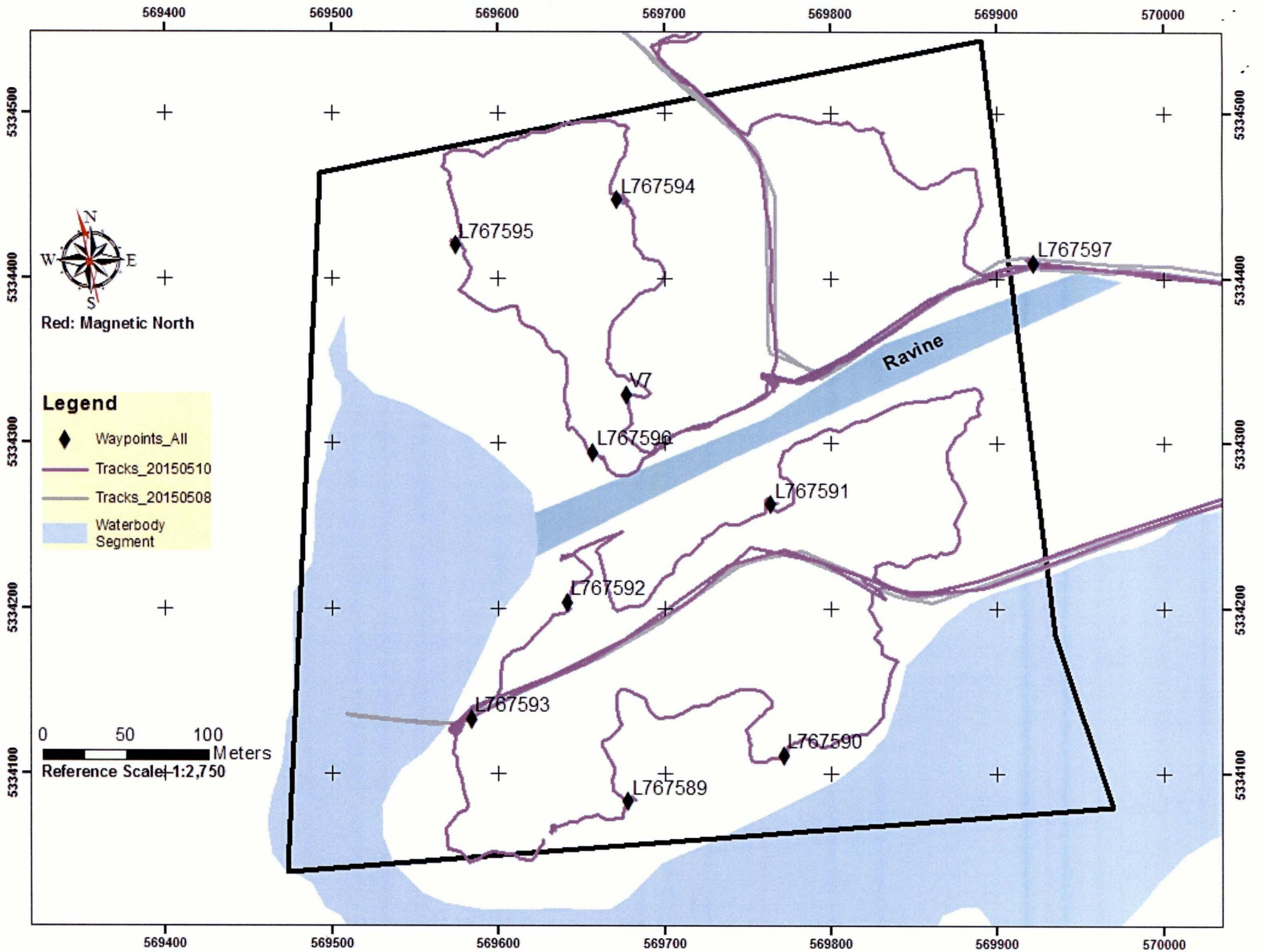
Weather: Sunny/overcast (rained during the night), cold (12°C), feels like fall

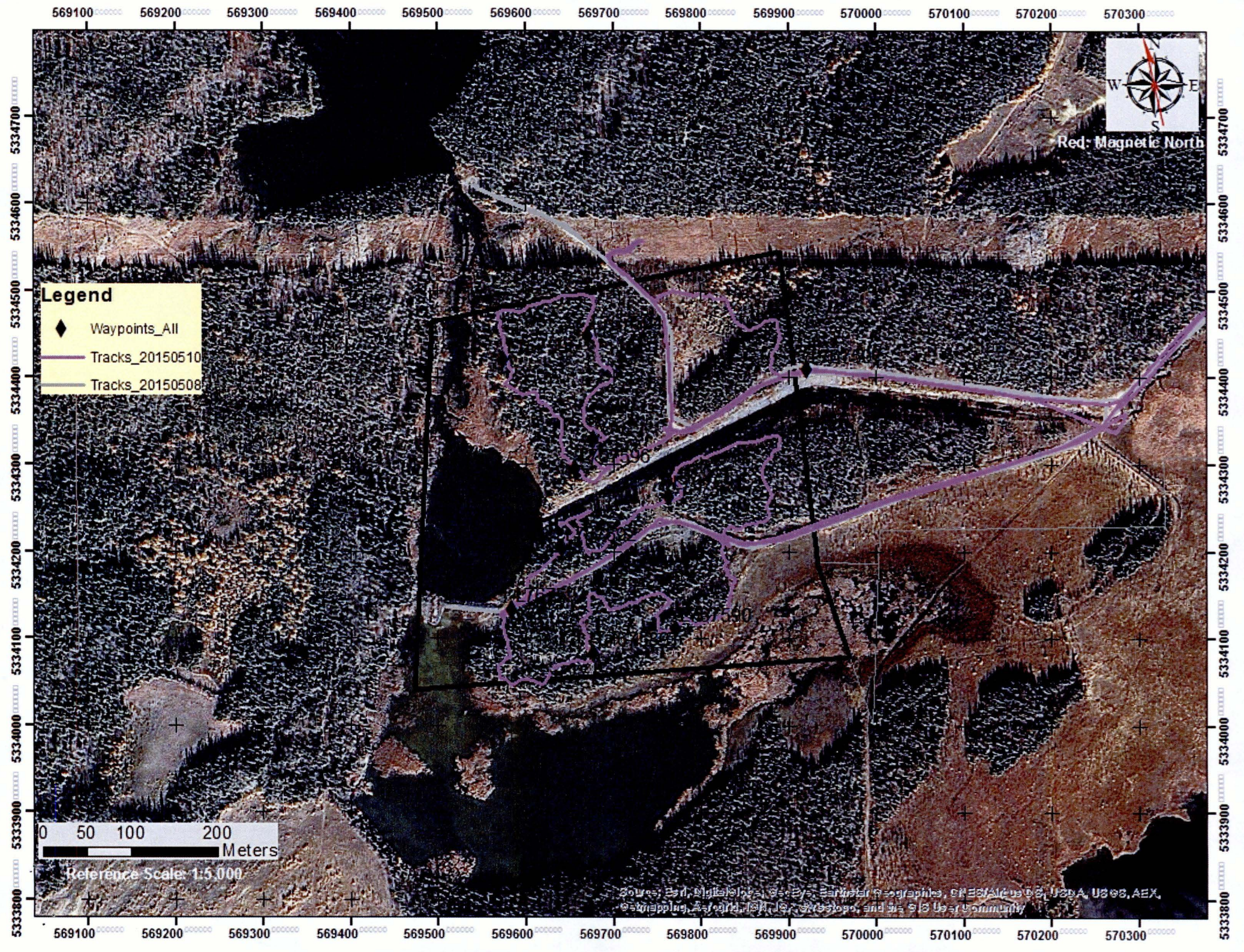
We arrived at the claim following the dirt road off Goodfish Rd and drove to the southwestern corner of the claim. We parked the truck adjacent to a gravel dyke crossing Kirkland Lake. We then proceeded south from the road and performed a series of south-north traverses south of the southern road with roughly 100m spacing and took several grab samples (L767589 to L767590). The samples and outcrop were all basaltic. The former tailings, slimes, removal of tailings and spring floods have severely degraded outcrop exposure near the Kirkland Lake Basin. We could not locate the Gabbro and Temiskaming outcrops on the north shore they appeared to be buried under swamp/rubble. Moving north of the southern road we performed a series of north-south traverses at 100m spacing. Our traverses were blocked by a wide (>10m) man-made ravine with basaltic scree/fill lining the slopes. We took another set of sample composed of basalt (L767591-L767592) paying extra care to sample from true outcrop given the human deposition of basaltic rubble. Heading back to the truck we took another basalt sample (L767593) from the 10m ridge by the truck.

We then moved the truck to the northern road in the claim which was north of the ravine. We then proceeded to traverse a set of north-south lines in the northwest quadrant of the claim. Moving north, we first encountered basalt similar to what we encountered in the south of the claim. Then, continuing north we encountered a wooded swamp. On the northern edge of the swamp we intersected a 5-10m high ridgeline of gabbro. We sampled the gabbro on the ridgeline (L767594 to L767595). Moving back south on a line west of our position we encountered extensive flooding and swamp leading us to move eastward closer to our original line. At the end of our south line we sampled an outcrop of basalt (L767596). We then relocated to the northeast quadrant of the claim and performed a north and south line traverse. The northeast quadrant was primarily flooded swamp with poplar tag alders. An outcrop/ridge of basalt was encountered but no sample could be broken off the ridge. At the end of the traverse we exited onto the road and sampled a road cut we previously passed in the truck. The road cut is on claim 1242952, which we hold. The road cut outcrop is composed of pillow basalt. We returned to the truck and returned to Dobie.

Charge	Cost	Units	Total
Geologist	\$350.00/day	1 days	\$350.00
Mileage	\$0.50/km	40km	\$20.00
Analysis	\$66.62/sample	11 samples	\$732.82
		Total:	\$1102.82

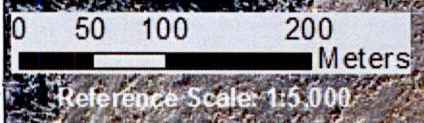
Prospecting Diary for Christopher Clarke, B.Sc, M.Sc, GIT





Legend

- ◆ Waypoints_All
- Tracks_20150510
- Tracks_20150508



Sources: Earth Satellite Imagery, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroX, Swire, GeoEye, IGN, AerGIS, and the GIS User Community



Notice of Intention To Perform Assessment Work

Personal information collected on this form is obtained under subsection 78(3) of the Mining Act. Under section 7 of the Act, this information is used to maintain a public record. This information will also serve as evidence that the recorded holder gave the required notice. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury ON P3E 6B5. Telephone 1 888 415-9845.

To Town of Kirkland Lake of Kirkland Lake City, Town, Village

Being the registered holder(s) of the surface rights of: Teck Township

Recorded as Mining Claim(s): Lot/Concession/Township/Area 4273901

I, Last Name Clarke First Name Chris Middle Initial of

Canadian Malartic Corporation of Kirkland Lake, ON Company Name (if Applicable) City, Town, Village, and Province or State

being the holder of the above-mentioned mining claim(s) give notice as follows

- 1. A review of the parcel register/abstract of title for the above-mentioned lands confirms that you are the registered holder of the surface rights to the lands.
2. It is my intention to carry out ground assessment work on the lands, commencing on/or about 2015/05/01 in accordance with the Mining Act. Date (yyyy/mm/dd)

Signature of Recorded Holder of Mining Claim(s) 2015/04/28 Date (yyyy/mm/dd)

Note: The Mining Act reads as follows:

If there is an owner of the surface rights of the land comprising a mining claim, where a holder of the mining claim first proposes to do ground assessment work on such land, the holder shall give notice in the prescribed form to the owner of the surface rights of the holder's intention to perform work.

A person who has given notice under this section may enter on the lands and perform the work at any time immediately following the day the notice is given.

Send the Lower Part of this Sheet to the Geoscience Assessment Office

Certificate Confirming Notice of Intention to Perform Assessment Work

Transaction number (office use) W

Note: For the first unit of assessment work to be recorded, this certificate must be on file with the Geoscience Assessment Office.

I, Last Name Clarke First Name Chris Middle Initial of

Canadian Malartic Corporation of Kirkland Lake, ON Company Name (if Applicable) City, Town, Village, and Province or State

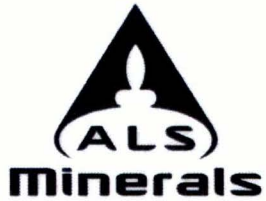
certify that I gave notice of my intention to perform assessment work to the holder of the surface rights

of 4273901/Teck Township on 2015/04/28 Mining Claim #/Lot/Concession/Township/Area Date (yyyy/mm/dd)

Signature of Recorded Holder of Mining Claim(s) 2015/04/28 Date (yyyy/mm/dd)

Submit to Geoscience Assessment Office, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury ON P3E 6B5, telephone 1 888 415-9845

"Mining Lands Website: http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp"



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

To: CANADIAN MALARTIC CORPORATION
KIRKLAND LAKE PROJECTS
72 UPPER CANADA DRIVE, P.O. BOX 996
KIRKLAND LAKE ON P2N 3L1

Page: 1
Total # Pages: 2 (A)
Plus Appendix Pages
Finalized Date: 15- MAY- 2015
Account: OSIKLI

CERTIFICATE SD15069569

Project: CLAIM 4273901
P.O. No.: KL001030
This report is for 11 Rock samples submitted to our lab in Sudbury, ON, Canada on 13- MAY- 2015.

The following have access to data associated with this certificate:

CHRISTOPHER CLARKE

MIKE FELL

CHRISTAL HANUSZCZAK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 23	Pulp Login - Rcvd with Barcode
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
Au- AA24	Au 50g FA AA finish	AAS

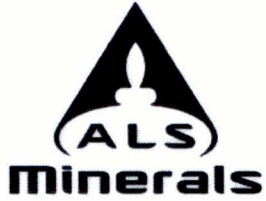
To: CANADIAN MALARTIC CORPORATION
ATTN: CHRISTAL HANUSZCZAK
KIRKLAND LAKE PROJECTS
72 UPPER CANADA DRIVE, P.O. BOX 996
KIRKLAND LAKE ON P2N 3L1

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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

To: CANADIAN MALARTIC CORPORATION
 KIRKLAND LAKE PROJECTS
 72 UPPER CANADA DRIVE, P.O. BOX 996
 KIRKLAND LAKE ON P2N 3L1

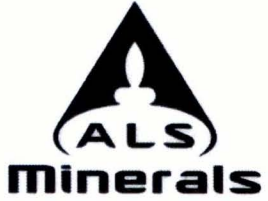
Page: 2 - A
 Total # Pages: 2 (A)
 Plus Appendix Pages
 Finalized Date: 15- MAY- 2015
 Account: OSIKLI

Project: CLAIM 4273901

CERTIFICATE OF ANALYSIS SD15069569

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au g/t 0.005
L767589		1.29	<0.005
L767590		1.57	<0.005
L767591		2.27	<0.005
L767592		1.73	<0.005
L767593		1.36	<0.005
L767594		1.51	0.007
L767595		1.44	0.008
L767596		1.34	<0.005
R324843		0.11	0.546
R324846		2.00	<0.005
L767597		2.11	<0.005

***** 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: CANADIAN MALARTIC CORPORATION
 KIRKLAND LAKE PROJECTS
 72 UPPER CANADA DRIVE, P.O. BOX 996
 KIRKLAND LAKE ON P2N 3L1

Page: Appendix 1
 Total # Appendix Pages: 1
 Finalized Date: 15- MAY- 2015
 Account: OSIKLI

Project: CLAIM 4273901

CERTIFICATE OF ANALYSIS SD15069569

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Sudbury located at 1351- B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.			
	CRU- 31	CRU- QC	LOG- 22	LOG- 23
	PUL- 31	PUL- QC	SPL- 21	WEI- 21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au- AA24			