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Sampling Program on Mining Claim L 4259275 located in Teck Township, Larder Lake Mining Division

Introduction

On October 2nd and 3rd of 2016 a sampling /prospecting program was carried out on mining claim L – 4259275 located in the northeastern limit of Teck Township. The claim consists of two 16 hectore units in a north – south direction. The northern half of the northern unit lies in part in Gami Lake. Four samples were collected and assayed in the two field days taken to examine the northern part of this claim.

Access

Mining claim L 4259275 was accessed by boat via Gami Lake which is located 3 kilometers north of Kirkland Lake on the airport road. A boat was the easiest way to access the part of the claim examined due to the fact the only access trail has been gated off for several years by a private land owner to the west of the subject claim at the airport road.

Regional & Property Geology

Quartz porphyry is found in the north-east corner of Teck Township. It contains large quartz phenocrysts in a fine grained groundmass and is distinctly different than all other types of porphyry found throughout the area. The quartz – porphyry occurs as dikes and irregular shaped bodies. In places it is considerably sheared especially along the contacts with the basic lavas. On the north shore of Gami Lake it cuts through an outlier of Temiskaming conglomerate of Algonian age.

The latest type of rocks of the Algonian series in the area are the syenite porphyry, quartz feldspar porphyry, and alaskite. The porphyries may be exposed as dykes or small irregular shaped bodies, or as large stock like masses. The long dimension of these intrusive bodies tends to be parallel to the strike of the adjoining formations. Syenite porphyry is typically pink to bright red in color and is characterized by the presence of conspicuous crystals of feldspar. By diminution of the feldspar phenocrysts, the syenite porphyry grades into a syenite. The syenite porphyry is intimately associated with the basic syenite and “lamprophyre” throughout the Kirkland Lake camp, yet the porphyry always shows a sharply defined intrusive contact against the older rock type.

The carbonated rocks in the Kirkland Lake area were formed during the general period of Algonian Intrusion, although they are not intrusive bodies. The carbonated rocks were formed by replacement of pre-existing rocks by siliceous carbonate materials. As in all replacement bodies, the amount or degree of alteration varies from place to place, and the carbonate bodies are therefore irregular in outline. There are all stages of development from slightly carbonated country rock to a siliceous carbonate body from which all vestiges of the original rock have disappeared. The carbonization diminishes gradually towards the limit or margin of a body of carbonated rock. The carbonated rock is composed mainly of silica and carbonates of magnesium, calcium and iron. Throughout the Kirkland Lake and Larder Lake area the carbonated rock is commonly referred to as “dolomite”. The rock is also known as green carbonate due to its brilliant green color due to the bright green mica, either fuchsite or meropodite in composition. Due to their iron content carbonates show a reddish-brown gossan on the weathered surface. Mining claim L 4259275 is mostly massive mafic volcanic rock, there are no reported gold showings or old workings on record.

The Sampling/Prospecting Program

On October 2nd 2016 a prospecting sampling program began on mining claim L – 4259275 located in the northeastern part of Teck Township. The northern limits of the claim lie in Gami Lake. The northern part of the claim was the focus of this program since the southern parts of this claim is covered by a tailings pond. A boat was used since no road access was available to reach the property, the only road to the property was gated at the intersection with the airport road by a private land owner.

In the central part of the claim there seems to be more outcrop exposure than any other part of the claim. Outcropping was also noticed in the south-eastern part of the mining claim which will be looked at in the near future. The area is thick with under brush and is difficult to navigate.

Five traverse or prospecting lines were run across the northern part of the mining claim in an east – west at approximately North 60 degrees east approximately 50 meters apart. The main rock type that seemed to be found on the mining claim is massive mafic volcanic rock (quartz diorite), which is medium to fine grained in places, slightly carbonated with some minor pyrite. The quartz diorite is pale green to grey in color.

Some slump trenches and pits were noticed; due to the poor condition, it was hard to obtain a sample in some locals. Due to the massive out crops of quartz diorite only the samples with significant mineralization were sent in for assay, a total four samples collected were sent in for assay to see if any part of this system would contain any gold values.

<u>Sample #</u>	<u>Description</u>	<u>Au, grams /ton</u>	<u>utm coordinates</u>
73911	mafic volcanic, pale green to grey in color Fine to medium grained, slightly carbonated trace fine disseminated sulfides.	0.01	17U 572710E, 5336578N
73912	volcanic, pale green to grey in color fine to medium grained, slightly carbonated minor fine sulfides, 1%<	0.10	17U 572801E, 5336554N
73913	pillowed volcanic, pale green to grey in color fine to medium grained, slightly carbonated minor disseminated sulfides, 1%< massive	0.13	17U 572921E, 5336627N
73914	a quartz diorite, pale green to grey in color fine to medium grained, slightly carbonated minor disseminated sulfides, 1%<	0.05	17U 572968E, 5336635N

Recommendations & Conclusions

Although the assays were trace at best, further work is planned to clear some of the old pits and trenches. Further prospecting and sampling and soil sampling is planned for the central and south eastern part of the property. It is felt that the claim is in a good location geologically for the presence of gold. Sediment sampling of Gami Lake is also being considered within the claim boundaries.



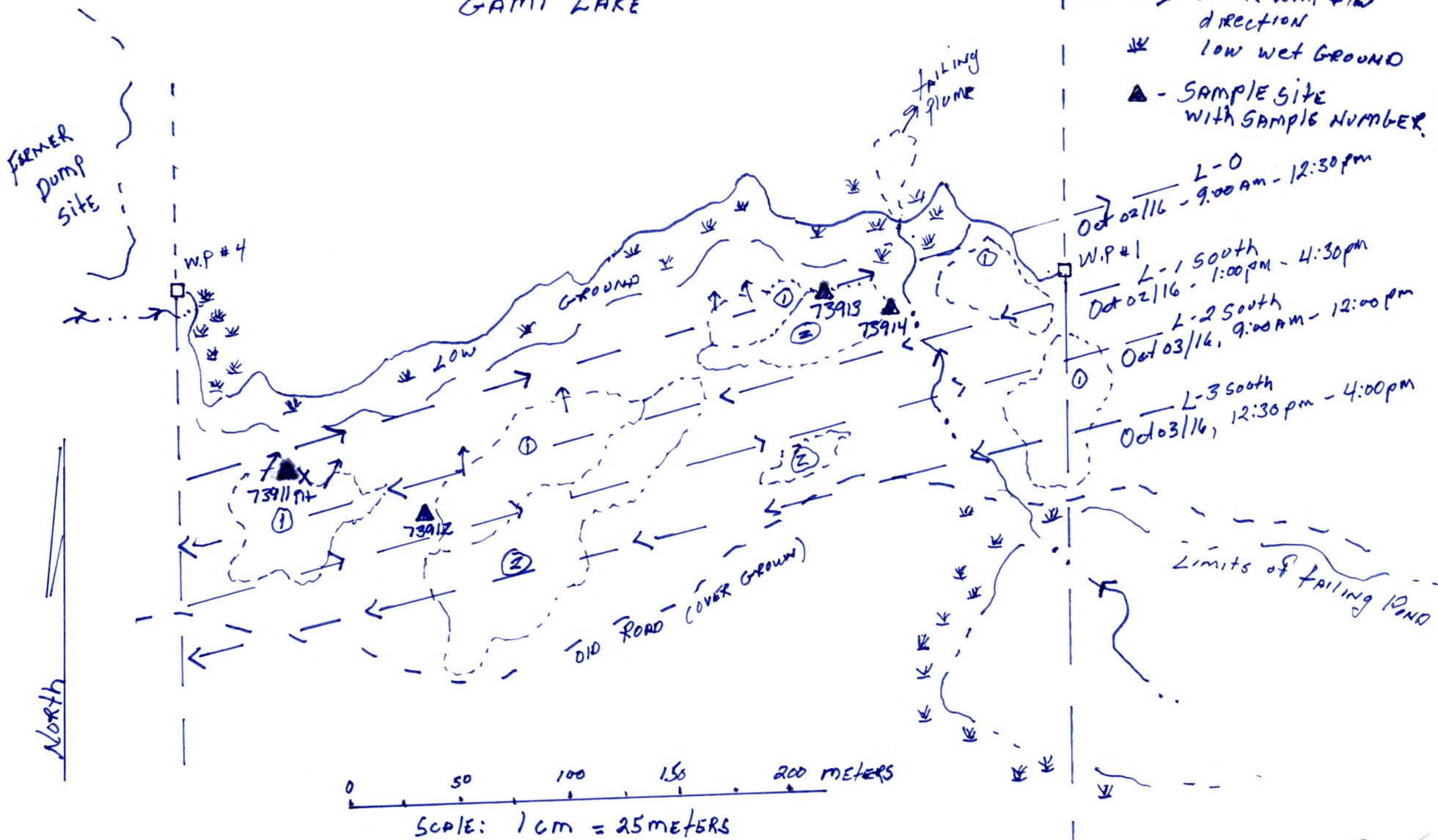
Thomas O'Connor

L- 4259275

GAMI LAKE

LEGEND

- outcrop limits
- volcanic rock
- mafic volcanic rock
- TRAVERS LINE with direction
- CREEK with flow direction
- low wet GROUND
- SAMPLE SITE with SAMPLE NUMBER



[Handwritten signature]



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Assay Certificate

Certificate Number: 16-1424

Company: **Tom O'Connor**

Project: **4259275**


Report Date: **24-Oct-16**

Attn: **Tom O'Connor**

We hereby certify the following Assay of 4 core samples submitted 13-Oct-16 by Tom O'Connor

Sample Number	Au FA-MP g/Mt
73911	< 0.01
73912	0.10
73913	0.13
73914	1 0.05

1. No Reject

Certified by 
Denis Chartre

