

Great Gull Lake Resources - Gullbridge Project 2001

DDH - SW-03

License #:	Collar Easting: 2+71 E	Logged by: Victor French /	<u>Down Hole Surveys (Tropari):</u>
Property: Gullbridge	Collar Northing: 25+10 E	Chad Wells	129 /45 @ ~87 m
Southwest Shaft	Hole Azimuth: 130 deg.	Date:	
	Hole Inclination: 45	Start	Nov. 21/00
	Total Depth: 88.92 m	Finish	Nov. 22/00

<u>Depth</u>	<u>Description</u>
(from)	(to)
1.52	<u>Chlorite Schist (+quartz)</u> 10.69 Dark to medium green highly broken section of core. Unit appears moderately massive but a weak fabric is identified locally (65-75 deg. t.c.a). Interval is characterized as and intensely altered, primarily chlorite, mafic volcanic that becomes progressively foliated and quartz enriched down hole. < 5.1 m zone has 1-2% disseminated sulphide, pyrite, throughout, and trace anhedral porphyroblasts interpreted as cordierite like seen elsewhere in the area. Trace milky white quartz veins frequently stained orange with minor hematite. Overall unit is weakly magnetic but stronger magnetic interval correlates with increase sulphide content (magnetite not po). < 5.1 m unit becomes typically more foliated with irregular contorted laminations a common observation, likewise quartz (silica) composition increases as does sulphide content and cordierite grains. @ 6.3 m -8.3 m a zone of 10-15% pyrite, typically laminations and lesser disseminations, with strong magnetic character, presumably due to minor wispy black magnetite associated with sulphide. A highly contorted fabric increase proceeding mineralization unfortunately no structural measurement of a preferred trend can be obtained. Unit progressively develops into a more typical quartz chlorite schist, with a fabric generally ~70 deg. t.c.a. @ 10.4 m a thin lamination of semimassive sulphide, predominantly pyrite with a possible low copper tenor. Gradational contacts.
10.69	<u>Quartz / Chlorite Schist ?</u> 12.49 A variable interval of a typical banded quartz chlorite schist with medium grey sections 10's of cm's that appears more siliceous (felsic volcanic). The siliceous zone contain significantly more pyrite. Overall unit contains 8-10% sulphide with low Cu tenor. Minor magnetite also seems to be associated with the mineralization, revealed by strong magnetic character of zone. Lower ~70 deg. contact with massive sulphide.
12.49	<u>Massive Sulphide</u> 13.29 Short section of semimassive to massive sulphide apparently hosted in a dark grey silicified interval of the variable chlorite schist described above. The sulphide is predominantly pyrite with lesser po, and rare chalcopyrite. wispy magnetite is observed locally. Sulphide is medium grained

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Depth

(from) (to)
cont...

Description

and generally blotchy (likely recrystallized). In less massive section anhedral blotches of sulphide conform to a 70-75 deg. fabric, likewise upper and lower contact are 70-75 deg. t.c.a. Both contact are rigid but are staggered by blotchy sulphide for 20-30 cm zones adjacent contacts. Sulphide does appear to have a low base metal tenor.

Quartz Chlorite-Sericite + biotite schist

13.29 28.07 A variable grey to green unit of chlorite schist as described above gradational becoming more sericitized and quartz rich. Zones of browner mineralogy suggest local enrichments of sericite and biotite. Unit is moderately magnetic with local strongly magnetic sections correlated with more chloritic zones, a common observation noticed in other ddh's in area. A highly irregular contorted fabric prevails in early part of zone however with penetration a more consistent ~65 deg. fabric occurs. Locally large 2-3 cm porphyroblasts of cordierite can be observed as elongated ellipsoid grains conforming to fabric, sometimes grains are only ghost like halos apparently overprinted by fabric (?) Trace disseminated sulphide throughout, one small patch of cpy @ 24.07 m associated with a quartz lamination with a chloritic halo. Numerous broken sections of core suggestive of fault zones, notably ~16 m & 17 m, broken core paired with clay like gouge. @ 14.74 m a 30 cm, zone of 20-30 % blotchy pyrite hosted in a more chlorite rich section of unit, magnetite is associated with sulphide.

Metavolcanic (Chlorite Schist?)

28.07 30.85 Short unit of dark green to black mineralogy, interpreted as a less deformed component of the chlorite schist described above. The chlorite schist is likely a metamorphosed mafic volcanic unit and therefore has variable intervals of alteration and structural intensity giving the lithology an overall variable appearance. Gradational upper contact (subjective) primarily based on coloration and mineralogy. Magnetite veinlets are observed locally, as are white quartz veins. Unit does progressively (down hole) resemble the strongly deformed chlorite schist identified above,

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<u>Depth</u>	<u>Description</u>
(from) (to)	<u>Chert</u>
30.85	34 Light green to grey unit of siliceous sediment. Striking alternating feature of 5 cm laminations (beds) of light green coloration followed by a dark grey to black beds, presumably reflecting intervals of deposition. The beds (or laminations) conform to a constant fabric, 55-60 deg. t.c.a. throughout. Minor medium grained pyrite laminations occur locally (1-2 %) and unit overall is strongly magnetic. Unit is moderately broken and fractured likely due to its brittle nature. Upper 55 deg. contact, lower contact is characterized as a diffuse zone of change from a siliceous unit to a highly deformed metavolcanic - chlorite schist.
	<u>Metavolcanic / Chlorite Schist</u>
34 45.85	Light grey to dark green lithology of variable character ranging from a siliceous chloritized schist to a very dark chloritized mafic. Interpreted as a variably metamorphosed mafic volcanic that has been intensely deformed and altered variably throughout. Essentially unit resembles chloritized schist described earlier. However, from 35.95 - ~ 37 a dark grey siliceous section becomes notably mineralized, ~10-12% laminated pyrite with trace chalcopyrite. Laminations are generally 1-3 cm thick semimassive medium grained sulphide with a blotchy like texture as seen earlier. The sulphide doesn't appear to be controlled by any particular lithology or mineralogy.
	Spilled Core Box
45.85 53.8	Similar intervals of chlorite schist and metavolcanic as mentioned above with very cordierite rich section, large (2-5 cm) anhedral cordierite porphyroblasts are quite common locally. No mineralization in any of the spilled core.
	<u>Chlorite Schist</u>
53.8 55.13	Dark grey to black unit with a slight brown coloration, unit is extremely deformed, irregular crenulated lamination are common throughout. Laminations are much thinner than typical, mere mm's. Mineralogy appears to reflect an intensely deformed mafic volcanic or more likely a brown mafic tuff. Lithology is relatively non magnetic with only 1-2 % disseminated pyrite.

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(from) (to)	
cont...	Again another slight variation in a metamorphosed mafic volcanic or tuff.

Chlorite Schist (Meta-tuff)

55.13 58.25 Medium grey to green, strongly deformed, and intensely altered schistose. Reasonably resemble the quartz chlorite schist described elsewhere with variations in sericite and biotite content. There is however a suggestion of a lithic tuff protolith, small 2-3 cm angular chert (lithic) fragments are apparent locally, especially in the less chloritized, micaceous intervals, but consistent with more quartz rich sections. Unit does have a well developed brown coloration locally suggesting a brown biotiferous mineralogy, consistent with the brown tuff described immediately above. Cordierite porphyry blast aren't as obvious as up hole but do appear to be present a smaller ellipsoid figure conforming to the ~70 deg. fabric. Disseminated and patchy sulphide, wholly pyrite occur locally, generally contained in the browner biotiferous intervals. Diffuse contact that are interpreted to conform to intense fabric.

Intermediate-Felsic Volcanics (Metavolcanics)

58.25 81.71 Dark grey to green (almost bluish) unit of predominantly massive siliceous volcanics and possible tuffs. Generally massive with only short interval near upper contact with a well developed fabric possibly reflecting a more tuffaceous horizon. @ ~62.5 m unit becomes progressively darker almost black with a variable mint green epidote presence locally. Consistent with darker mineralogy is a dramatic increase in magnetic character, strong magnetism throughout. Black mottled texture observed locally is apparently magnetite rich, chlorite alteration is also evident. Overall this felsic volcanic horizon variably resembles the described Fe-Mg Alteration zone observed by previous workers. White to grey quartz veins are common generally haloed by mint green epidote alteration, magnetism does appear to increase marginal veins. Absolutely void of any sulphide mineralization. Fractures are relatively common throughout, ranging from 55-75 deg. t.c.a, ! 1cm of clay like fault gouge at 80.75 m suggest a presence of a hairline fault possibly trending 50 deg. t.c.a. Gradational upper contact but a rigid 45 deg. lower contact.

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<u>Depth</u>	<u>Description</u>
(from) (to)	<u>Gabbro Dike</u>
81.71 86.45	Dark green to salt and pepper gabbroic dike with sizable (>.5 m) apophatic black chill margins. Overall unit is quite massive with a phyric texture of white fine to medium grained plagioclase phenocrysts surrounded by fine grained black mafic minerals. Unit is strongly magnetic and wispy veinlets of magnetite occur near upper contact. A sizable (~60 cm) xenolith or zone(?) of cordierite rich metamorphosed volcanic is identified @82.68-83.2 m within boundaries of mafic intrusive. Irregular patchy like contacts occur between the two. Lower contact is ~75-80 deg. t.c.a
	<u>Intermediate-Felsic Volcanics (Metavolcanics)</u>
86.45 89.92	As described above.
E.O.H.	

Total Depth: 89.92 m. 11/22/00 @ 4:00 pm