Report on the GEOLOGICAL MAPPING and LITHOGEOCHEMICAL & MMI SAMPLING PROGRAM for SYNERGY EXPLORATIONS LTD.

CENTREFIRE CREEK PROPERTY

PATRICIA MINING DIVISION, ONTARIO

52F/16NW 52K/01SW

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November 15, 1999

SUMMARY AND RECOMMENDATIONS

Synergy Exploration Ltd.'s ("Synergy") 1998 exploration program focussed largely on preliminary geological mapping and sampling of the Centrefire Creek Property in the Sioux Lookout area in Northwestern Ontario, Canada. Synergy's initial exploration program, completed in August, 1998, entailed linecutting, geological mapping, lithogeochemical and MMI sampling. Further lithogeochemical sampling and geological reconnaissance mapping was conducted in 1999. Results from this evaluation indicate a high potential for the discovery of volcanogenic massive sulfide deposits.

The property comprises a total of 16 claim units (248 ha) in the Patricia Mining Division. Synergy has an option to purchase agreement with Stuarton Resources Ltd., the claim holder.

The property is near the top of the Abram Lake Greenstone Belt, where a succession of basalt is overlain by rhyolites, which are in turn truncated and overlain by alluvial sedimentary rocks. The lower basalt formation is host to disseminated and massive sulfide mineralization as well as iron formation. Between the rhyolite and basalt there are disseminated sulphides in a tuffaceous member. The upper rhyolites contain previously drill-intersected, base-metal massive sulphide horizons. The overlying coarse sediments contain sulphide clasts presumably derived from an eroded sulphide source.

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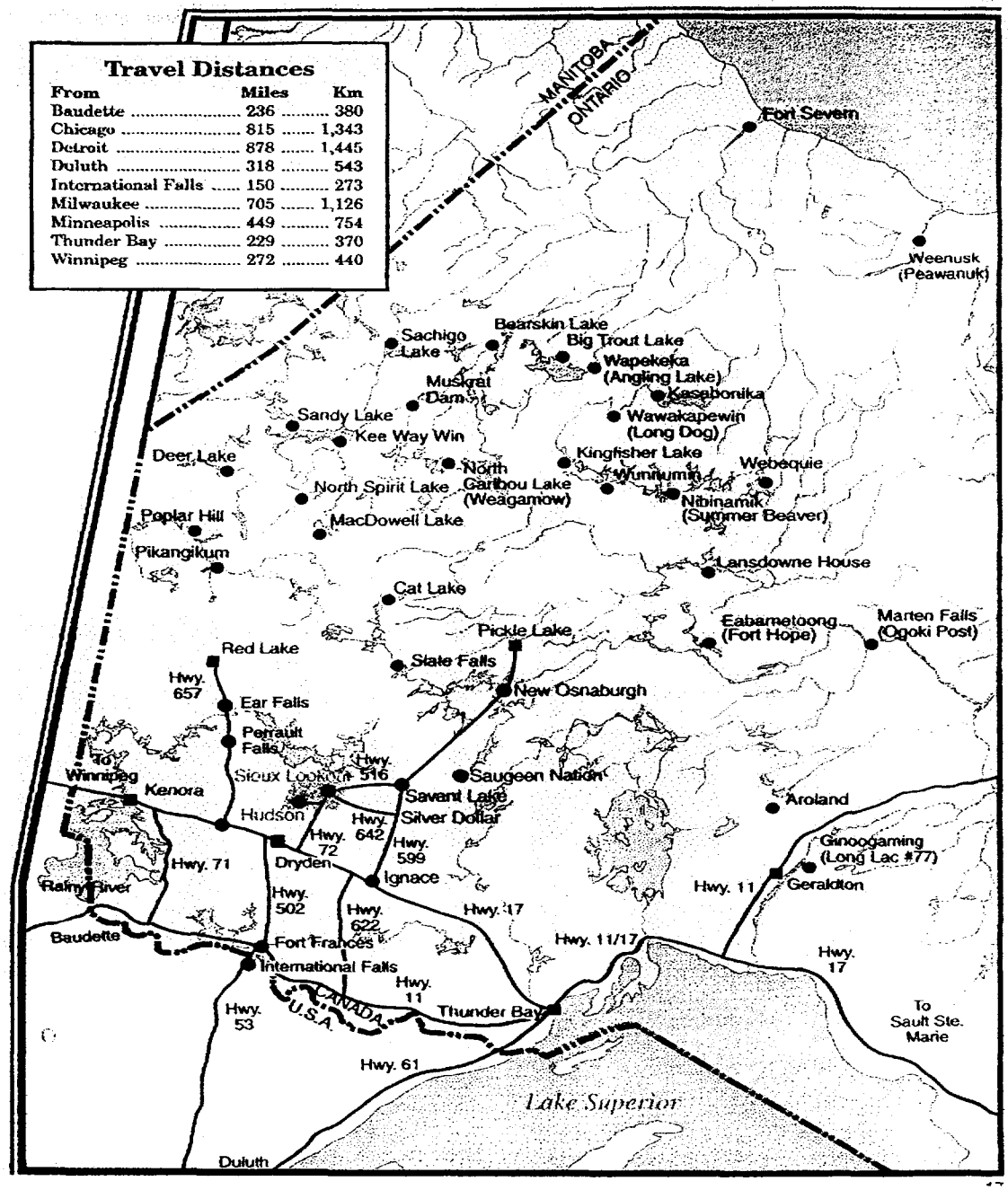
1.0 INTRODUCTION

This report summarizes results and provides recommendations for future work based on the 1998 and 1999 exploration program completed for Synergy Explorations Ltd.("Synergy") on its Sioux Lookout properties. The exploration targets are volcanogenic massive sulphide deposits, similar to economic deposits mined by Noranda Mines and Falconbridge Ltd. in the Mattabi Camp (total production, 18.38 million tons of 8.48% Zn, 1.05% Cu, 0.91% Pb).

Synergy engaged Andreas Lichtblau of Touchstone Consulting (an independent consulting geologist) to carry out its 1998 exploration program and Terrence Bottrill of Bottrill Geological Services to carry out its 1999 exploration program. Previous exploration and research data available in the public record were reviewed.



map courtesy of Town of Sioux Lookout

Fig. 1. Location Map, Sioux Lookout area, Ontario, Canada

2.0 LOCATION, ACCESS AND PHYSIOGRAPHY

The property is situated in Lomond Township, Patricia Mining Division, Ontario. The towns of Dryden (to the SW) and Hudson (to the NE) are situated approximately 30 km equidistant from the properties. Thunder Bay is approximately 360 road-km to the southeast (Fig. 1).

The property is easily accessed either by forestry roads southwest from Hudson (at the termination of Hwy #664); or from the Kathlyn Lake Road, which terminates in the south at Hwy #72, the Sioux Lookout Highway.

The area is in generally underlain by glacial deposits of sand and gravel, with outcrop exposures not exceeding 10%. On the Centrefire Property, Centrefire Creek flows in a major valley between two areas of outcrop, both of which are bounded in the south by approximately 10 m high cliffs.

The entire area has been logged over, probably twice, since the mid-forties and prior to that in the south, perhaps in the mid 1970's. The latest logging on the Centrefire Property would appear to have been before the 1970's, since tree cover is extensive.

3.0 CLAIM STATUS AND OWNERSHIP

The claim number 1077327 (16 units) is recorded 100% under Stuarton Resources Ltd. The claims are subject to an Option to Purchase Agreement between Synergy Explorations Ltd. and Stuarton Resources Ltd.

4.0 EXPLORATION HISTORY

Drilling by previous operators was confined to overburden covered areas below cliff exposures of generally fresh rhyolite. No casings or evidence of drill setups were found. Drilling by Selco in 1979 (hole #30-4-1, located approximately at Synergy's L4+20E/9+40N,) intersected significant alteration (highly sericitized rhyodacite tuff) underlying (ie. north of) massive sulphide mineralization (two bands of pyrite-pyrrhotite, 1.5 m and 2.1 m thick, respectively). While Cu and Zn were insignificant, these intersections demonstrate the presence of a mineralizing hydrothermal system. Up dip projection of the favourable stratigraphy is in the overburden covered area parallel to L4+00E, south of BaseLine 10+00N. MMI samples were taken along the length of the favourable stratigraphy to 7+25S. The only outcrop in this area occurs a further 75 m south, above Centrefire Creek (Sample #2496: weakly chloritic rhyolite tuff, Table 1)

Drilling in 1979 by Rio Tinto Canadian Exploration (hole #79-G3, located at Synergy's L8+65E/9+75N) about 450m east of Selco's hole, intersected footwall graphitic, argillaceous beds, followed by sericitized and chloritized dacite (rhyolite?) cut by pyrite-pyrrhotite stringers, and including a 5cm vein of 30% Galena and 15% Sphalerite. The hole terminated in variably biotite-chlorite altered andesite/dacite breccia (with occasional garnets) cut by pyrite-pyrrhotite stringers. Again, up dip projection of the altered and mineralized package is in the overburden covered area below unaltered rhyolite cliffs.

Government Airborne Electromagnetic and Total Intensity Magnetic surveys were published for the region in 1987. The following Geophysical/Geochemical Series maps cover the Centrefire Property and surrounding area: 80953, 80954, 80955, 80956 and 80957.

Ground geophysical surveys were conducted by the following companies in the vicinity of the Centrefire property: Asarco Exploration Company of Canada Limited (1967); Phelps Dodge Corporation of Canada Ltd. (1968); and Sulpetro Minerals Ltd (1981). None of this work is directly applicable to the Centrefire property.

5.0 SYNERGY 1998 PRELIMINARY PROGRAM

During the period August 19, 1998 to August 31, 1998, Synergy performed a preliminary program of limited linecutting, lithogeochemical and MMI sampling, and geological mapping. A total of 2,350 m of line were cut, chained and picketed; 10,358 m were blazed and flagged only; a total of 44 rock samples were taken for lithogeochemical analysis, and 287 soil samples were taken for MMI analysis.

Locations of all lithogeochemical sample points were determined with a Trimble Geoexplorer GPS unit (Appendix 3). Points on base and grid lines, claim posts and topographic features were also referenced. Field data was reduced and plotted on 1:5000 scale maps by Geo-Sat Enterprises, Thunder Bay, Ontario. Field data spreadsheets are appended

Contract personnel involved during this period were:

Andreas Lichtblau, Geologist (807)473-8172
RR#1, Nolalu, Ontario, P0T 2K0
Prospector's Licence #E33626

James Martin, Linecutter, Prospector (807)475-9138
RR# 7, Site 1, Comp. 12
Thunder Bay, Ontario, P7C 5V5

Ben Whitney, Geological Assistant
Box 250
21 Classic Ave.
Toronto, Ontario, M5S 2Z3

Contract personnel for the 1999 reconnaissance geological mapping and lithogeochemical sampling were:

Terrence Bottrill, Senior Geologist
192 Weldon Ave.
Oakville, ON L6K 2H6 (416)842-9884

Peter Eunson, Geological Assistant
99 Harbour Square, Suite 130B
Toronto, ON M4J 2H2 (416)861-1469

5.1 LINECUTTING

An east-west baseline (BL) and two crosslines were cut, chained and picketed. BL10N was started at the west side of the Kathlyn Lake Road and extended for 1200 m to the east (0+00E to 12+00E). Crosslines at L4+00E and L9+00E were extended north and south, for a total of 2,350 m.

BL10+00N	0+00E-12+00E	Azimuth N090°E
L4+00E	7+00N-14+00N	
L9+00E	9+00N-13+50N	

5.2 LITHOGEOCHEMICAL SAMPLING

A total of 22 rock samples were collected on the property (Table 1). All were of varying rhyolite facies with little mineralization.

Geochemical data for the Centrefire property are presented in Figures 2 to 5. Data are plotted as $Na_2O + K_2O$ vs SiO_2 (Figure 2) and as SiO_2 vs Log (Zr/TiO_2) (Figure 3). These classification diagrams indicate that the Centrefire Creek samples belong to the following groups: Basaltic Andesite, Andesite, Dacite and Rhyolite. One sample (# 2494), described as a strongly gossanous boulder, cannot be classified on either of these diagrams. Figure 4 is an Y vs Nb comparison diagram for several of the Centrefire Creek samples. Samples analyzed for these elements plot primarily within the subalkaline field with only one sample (# 2494) plotting within the alkaline field. Figure 5 is a Log Zr/Y vs Log Zr tectonic discrimination diagram which indicates that the majority of samples analyzed for these elements fall within the Ocean Floor Basalt and Within-Plate Basalt fields. Again, sample 2494 cannot be classified according to this scheme.

TABLE 1:
CENTREFIRE CREEK CLAIM BLOCK SAMPLE DATA

Sample #	UTM E	UTM N	DESCRIPTION
2488	542353	5539067	Litho #2488: Rhyolite, mass, hairline Se, tr Py
2489	542642	5539027	Litho #2489: Rhyolite, mass, rusty hairline fractures
2490	542799	5538989	Litho #2490: Rhyolite, flow or tuff?
2491	542953	5539049	Litho #2491: FP-Rhyolite, incipient Se alt
2492	543135	5539141	Litho #2492: Rhyolite, FP-tuff, rare chl hairline veinlets
2493	543136	5539036	Litho #2493: Rhyolite tuff, mod chl
2494	543151	5539025	Litho #2494: melon-sized boulder, strongly gossanous, SMS?-Po, Mag
2495	543246	5539025	Litho #2495: Rhyolitic tuff, weakly chl
2496	542656	5538666	Litho #2496: Rhyolitic tuff, weakly chl
2988	542300	5539372	Litho #2988: Rhyolite, foliated, mod chl, 5% Py
BGS/8-99/001	542520	5538160	Int. tuff (?) from cliff, unit 2c
BGS/8-99/002	542367	5537081	Biotite-quartz-feldspar schist; Int. tuff, unit 2e
BGS/8-99/003	542385	5537330	Felsic layered lapilli tuffs; unit 2c
BGS/8-99/004	542370	5538057	Felsic, massive lapilli tuff, Cliff rhyolite, unit 3cd
BGS/8-99/005	542155	5538576	Felsic, fine grained tuff; upper cliff, unit 3dc
BGS/8-99/006	542155	5538579	Felsic , angular tuff breccia; flattened pumice, Unit 3dc
BGS/8-99/007	542165	5539323	Felsic feldspar porphyry (south); Town line zone: unit 3cd
BGS/8-99/008	542165	5539323	Cherty exhalite, Town line zone
BGS/8-99/009	542165	5539323	Felsic agglomerate, lapilli tuff; Town line zone: unit 3cd
BGS/8-99/010	542165	5539300	Intermediate massive tuff; Town line, to south, unit 2a
BGS/8-99/011	542125	5539363	Intermediate massive tuff; Town line, to north, unit 2a
BGS/8-99/012	542100	5539375	Intermediate massive tuff; Town line, to north, unit 2a

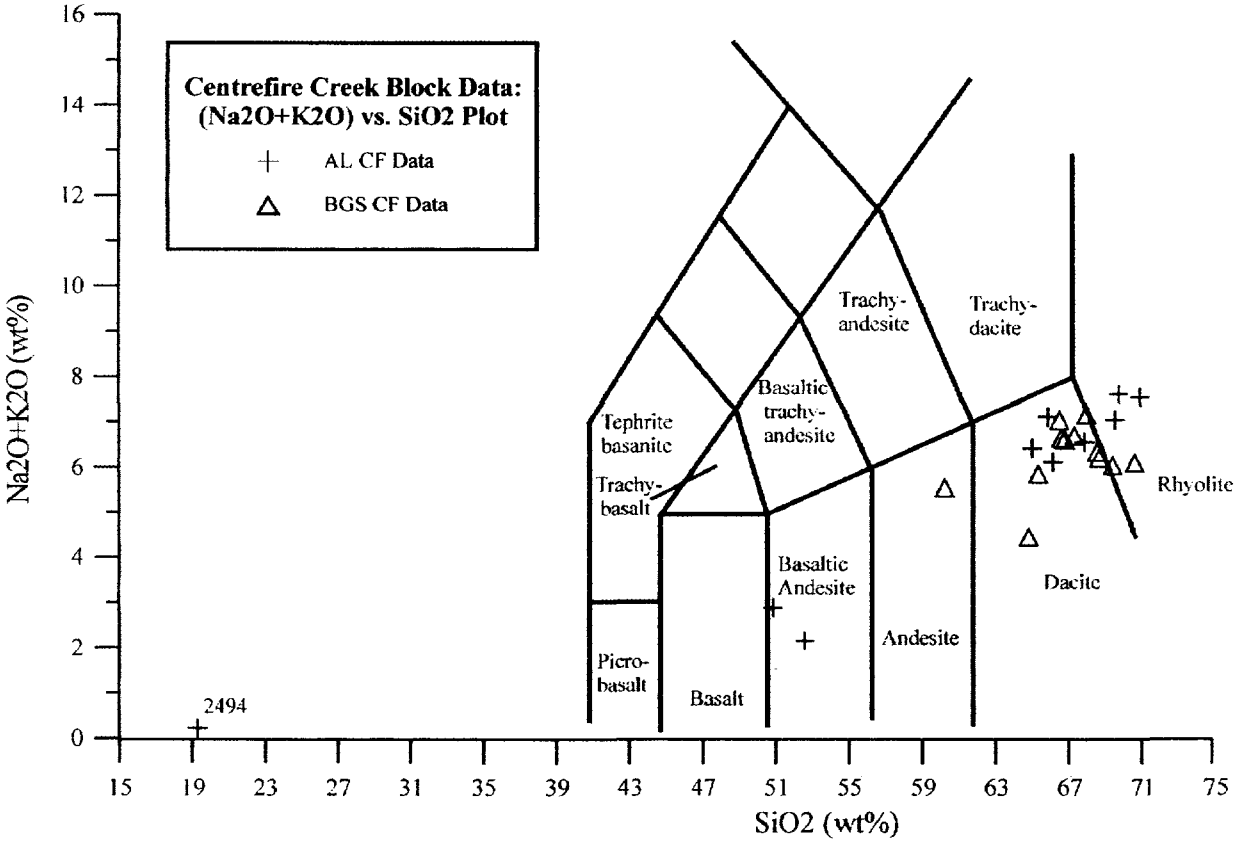


Figure 2. ($Na_2O + K_2O$) vs SiO_2 plot of Samples collected from the Centrefire property

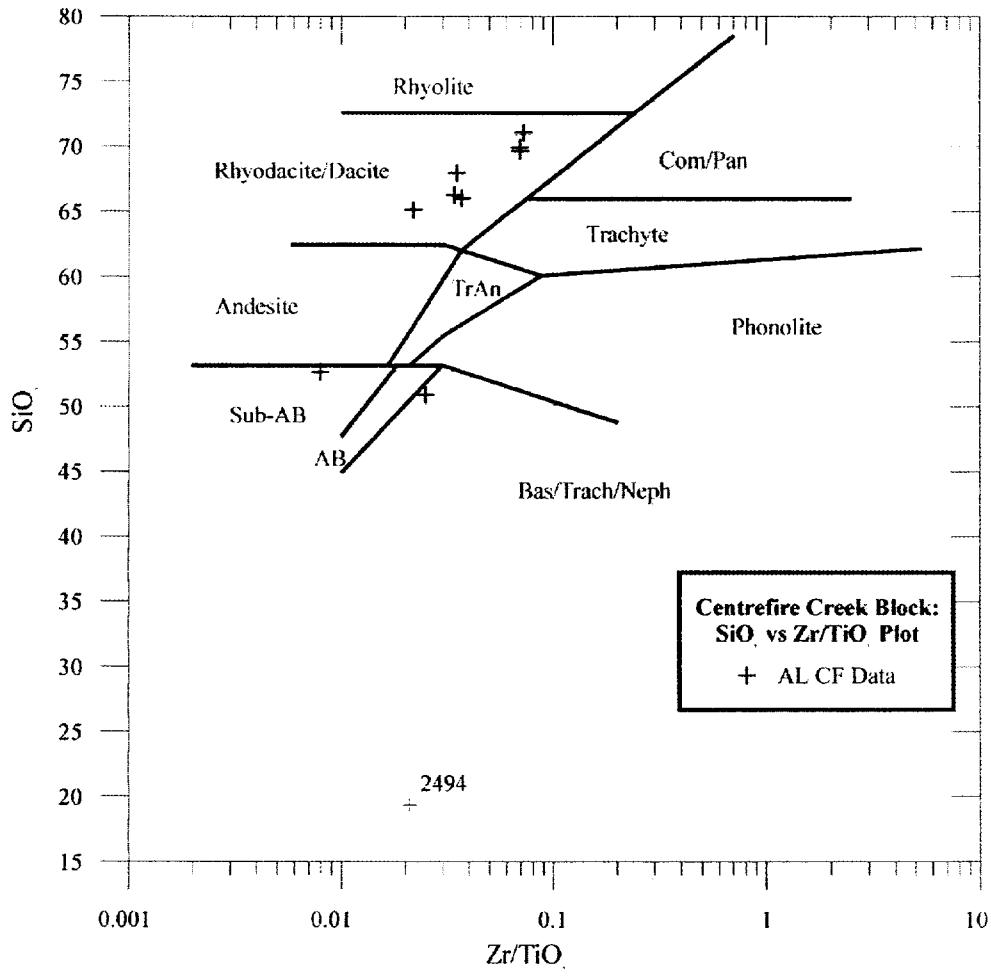


Figure 3. SiO_2 vs Log Zr/TiO_2 Plot of samples taken from the Centrefire property

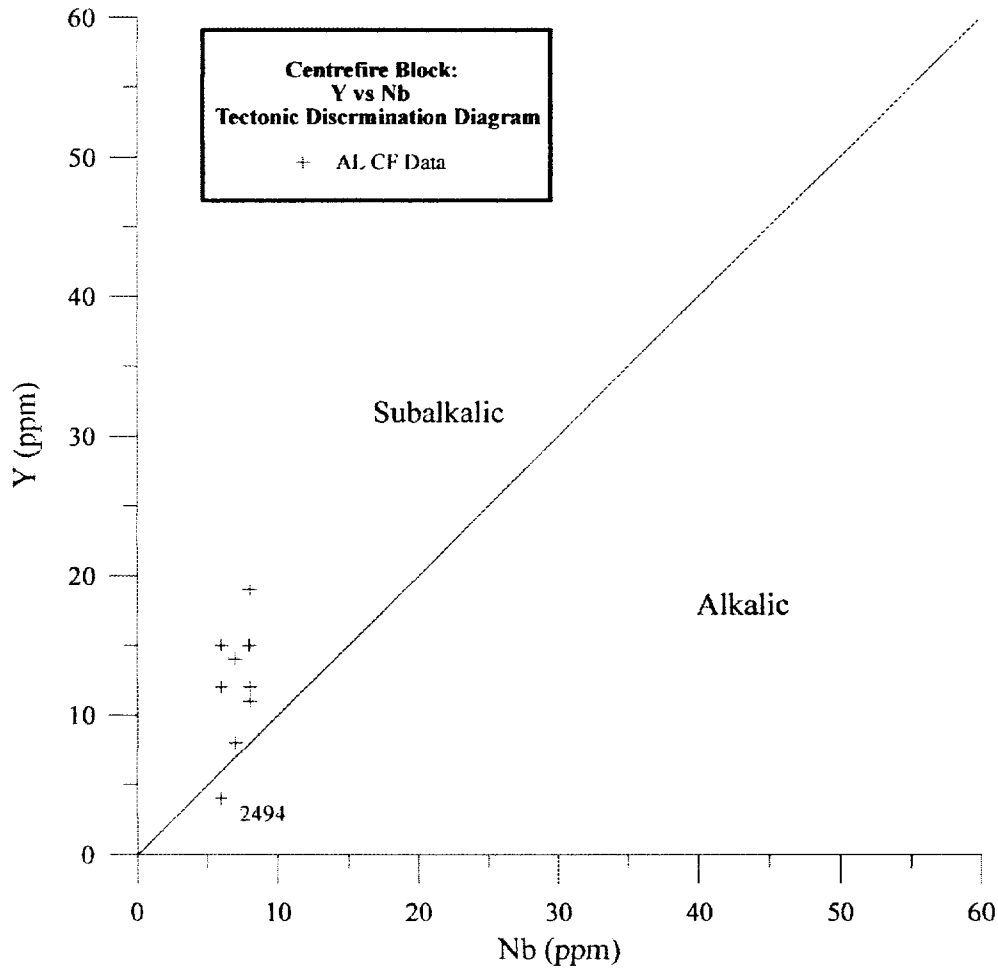


Figure 4. Y vs. Nb Tectonic Discrimination Diagram for samples taken from the Centrefire property.

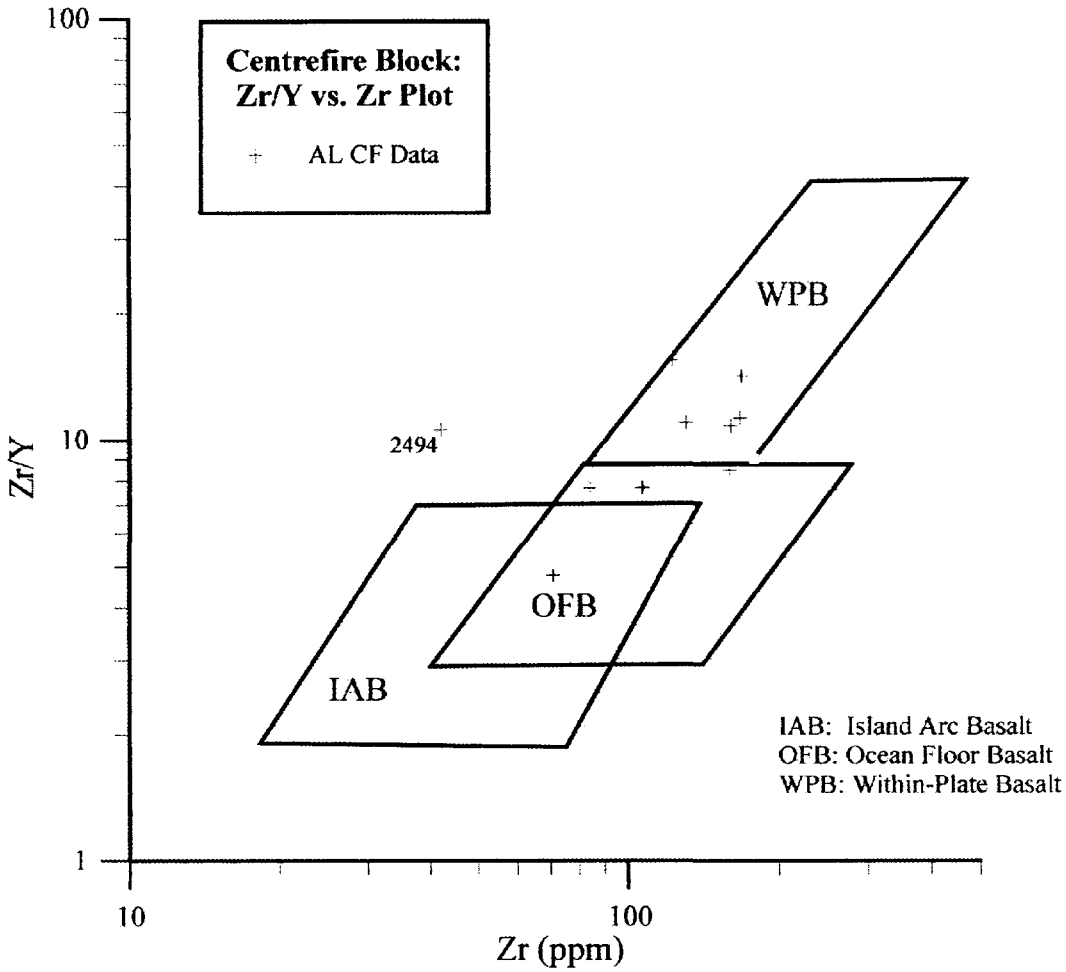


Figure 5. Log Zr/Y vs Log Zr Discrimination Diagram for samples taken from the Centrefire property

5.3 MMI SAMPLING & PROCEDURE

A total of 13 soil samples were collected for eventual MMI (Mobile Metal Ion) analysis (Appendix 2). The MMI geochemical soil survey can be an effective tool over deep, glacially derived overburden. Sampling was done of the soil layer at a constant depth of 10 cm-15 cm, below the whitish leached layer ('Ae') situated at the base of the 'A' horizon. A minimum 500 g (1 lb) sample was collected, if possible every 50 m along the grid line. Samples were kept in securi-sealed plastic bags, and stored before processing, along with the lithogeochemical samples, at the facilities of Clark-Eveleigh Consulting, Thunder Bay, Ontario.

Particular care was paid to MMI sampling techniques. A stainless steel shovel (which had all traces of paint and preservative removed) was used to dig the hole and collect the sample at a constant depth of 10 cm-15 cm. The soil was sieved through a coarse plastic mesh, allowing for passage of 5 mm soil clumps, but retaining all leaves and forest litter, root matts, etc. The site was assessed according to vegetation type (ie. tree species, thickness of moss or other cover) sometimes moss cover was too thick (»20 cm) so that sampling was aborted. No samples were taken in clear-cut areas since no soil was available. Mechanized tree harvesting techniques were such that the first 20 cm consisted of powdered and mixed dead moss/organics in a jumble of decaying tree roots and newly sprouting shrubs.

It was subsequently recognized that the MMI samples had been collected in areas of relatively thin overburden. The MMI technique is not applicable for shallow overburden areas and it was determined that the samples would not be analyzed.

6.0 REGIONAL GEOLOGY

The property is underlain by rocks of the Wabigoon Subprovince of the Canadian Shield. This is a 900 km long by 150 km wide granite-greenstone terrain in the NW Superior Province. The greenstone belt has been mapped on many occasions (cited in Turner and Walker, 1973). Particular attention was paid by early researchers to the sedimentary stratigraphy of the area, within the context of defining terms such as Keewatin and Coutchiching. Later authors (cited by Blackburn et al, 1992) defined stratigraphic relationships within belts and, using geochronology, relationships between belts within the subprovince.

In the area of Sioux Lookout, granitoid gneisses of the 3.00 Ga Winnipeg River Subprovince are basement to the lowermost volcanic stratigraphy of the Abram Lake Greenstone Belt, dated at between 2.73 Ga and 2.80 Ga (Blackburn et al, 1992). All of the Synergy properties lie within the Northern Volcanic rocks of the Abram Lake Belt (Fig. 6).

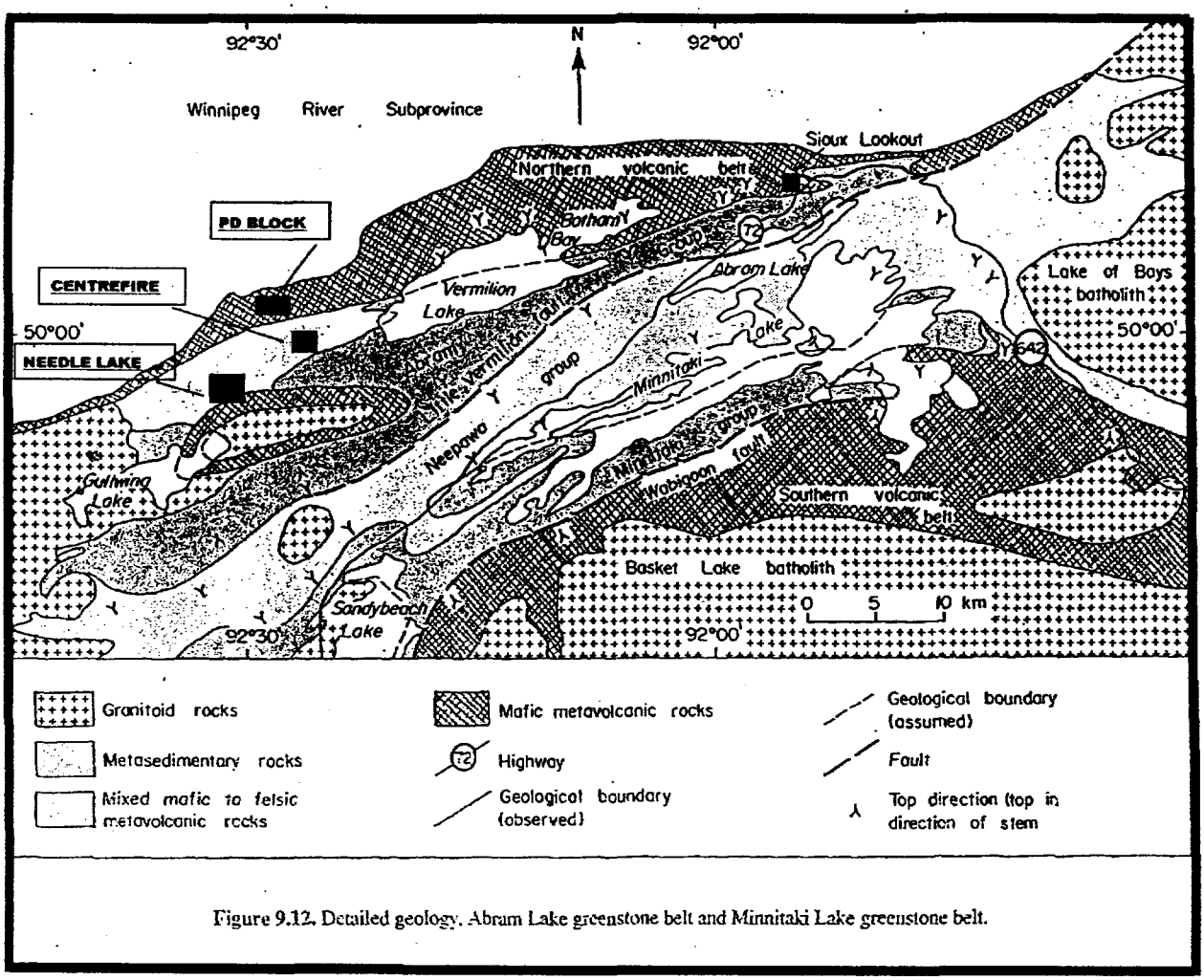


Figure 9.12. Detailed geology, Abram Lake greenstone belt and Minnitaki Lake greenstone belt.

from Blackburn et al (1992)

Fig. 6. Property Location, Abram Lake Greenstone Belt, Sioux Lookout, Ontario

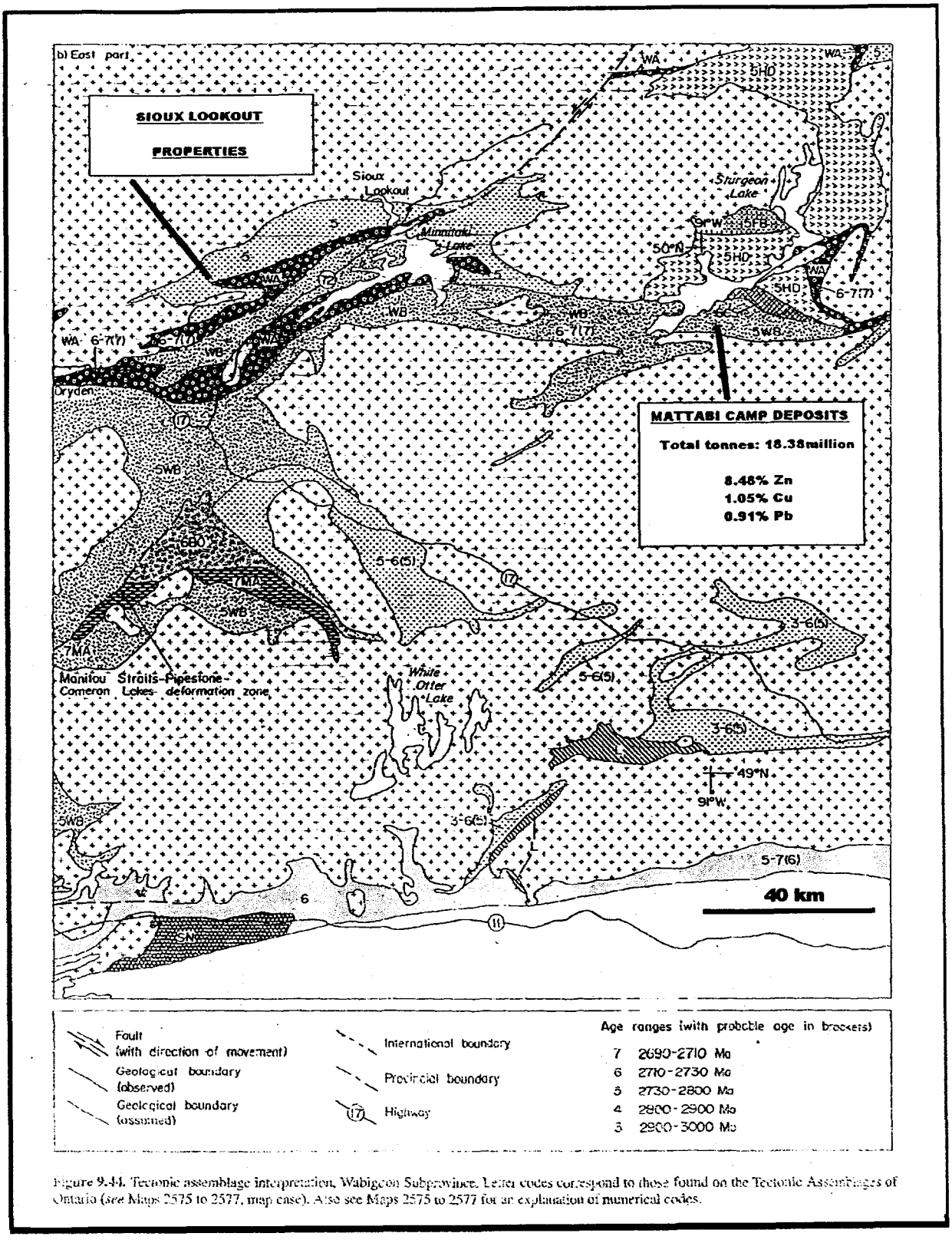


Figure 9.44. Tectonic assemblage interpretation, Wabigoon Subprovince. Letter codes correspond to those found on the Tectonic Assemblages of Ontario (*see* Maps 2575 to 2577, map case). Also see Maps 2575 to 2577 for an explanation of numerical codes.

from Blackburn et al. (1992)

Fig. 7. Sioux Lookout-Mattabi Belt, Wabigoon Subprovince

Development of volcanic belts within the eastern portion of the Wabigoon Subprovince, particularly the Sioux Lookout portion and South Sturgeon Lake-Mattabi Camp area 100 km (Fig. 7), was essentially coeval. At Sturgeon Lake, predominantly mafic volcanic rocks overlie the Central Wabigoon Gneiss terrain; felsic ash flow tuffs hosting the VMS Deposits of the Mattabi Camp are dated at 2.73 Ga. The volcanic rocks are overlain by the Sturgeon Lake sedimentary package, indicating a cessation of volcanic activity. A similar sequence of events is recorded in Sioux Lookout, at similar times.

The Sioux Lookout succession begins with a mafic volcanic sequence (lower Northern Volcanics) in fault (?) contact with underlying Winnipeg River gneiss. The southward facing mafic volcanic rocks are overlain by an upper mixed unit of intermediate and felsic units. Minor felsic intrusive activity was followed by erosion and deposition of alluvial sediments of the Ament Bay formation (Turner and Walker, 1973). The Sioux Lookout properties are underlain by the prospective mafic and felsic portions of the succession (Fig. 8).

The most recent mapping in the Sioux Lookout area was by Page and Christie (1980). Of structural importance to the current exploration program is their interpretation of an overturned, westerly plunging syncline parallelling the east-west line between McIllraith and Lomond Townships to the north, and Webb and Echo Townships to the south. The Centrefire property lies on the northern limb. The core of the syncline is occupied by late alluvial fan sediments: erosional products of the underlying volcanic pile.

7.0 PROPERTY GEOLOGY

The Centrefire claims are underlain by felsic volcanic rocks comprising massive flows to weakly laminated tuffs and rhyolite breccia. The units are sometimes weakly feldspar phyric. Deformation is limited to a weak foliation, which can be confused with bedding in the tuffaceous rocks.

Strike and dip are a uniform N100°E/60°-65°N. It was not possible to determine bedding tops. Breccia units were not exposed over sufficient widths to determine graded bedding, nor did tuffaceous beds exhibit obvious grading. Page and Christie (1980) mapped south facing, overturned conglomerate beds (see further below) immediately south of the present claim boundary. Turner and Walker (1973) and Page and Christie (1980) believe the conglomerates ('Ament Bay Formation', Fig. 8) overlie the volcanic sequence and form the core of an overturned, northerly dipping syncline, whose axis runs N100°E, one kilometre south of the property.

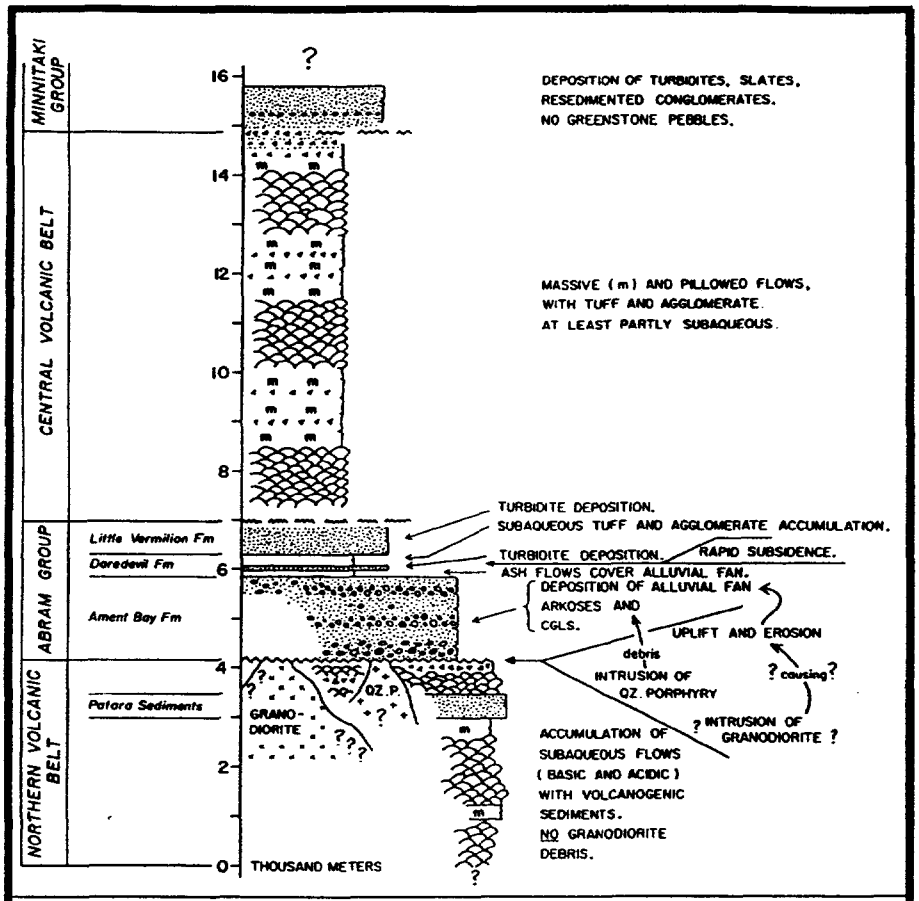


FIG. 2. Stratigraphic sequence compiled from Fig. 1, using Pettijohn's (1935) thicknesses for the Northern Volcanic Belt; Turner's (1972) values for the Abram Group; an estimate of the Central Volcanic Group from Ontario Department of Mines maps, assuming no major repetitions by folding; and Walker and Pettijohn's (1971) thickness for the Minnitaki Group. The commentary to the right of the section is interpretive, and is discussed in the text. The ?? grandiorite shown in the section is also interpretive, see text.

from Turner and Walker (1973)

Fig. 8. Stratigraphic location of Sioux Lookout Properties

The Centrefire property essentially straddles the rhyolitic package that extends through parts of McIllraith, Webb, Lomond and Echo Townships. A sample of chloritic, foliated rock (#2988, Table 1) from the extreme northwest corner of the property could represent the stratigraphically underlying mafic units exposed to the north. The presence of two drillholes (possibly Rio Tinto or Canadian Nickel) testing a geophysical conductor in this area indicates that this may be the basalt/rhyolite contact. Dense bush and very small, unstripped outcrops in the area precluded tracing the weakly mineralized horizon.

Rhyolites are exposed for approximately 2200 m across the property. They are presumably stratigraphically overlain by the polymictic conglomerates of the Ament Bay formation (Page and Christie, 1980). Exposures along the Kathlyn Lake Road are of thickly bedded (approximately 1 m), clast-supported conglomerates, containing fragments of sub-angular mafic and felsic volcanic rocks and granitoids. Sulphide 'burns' (centimetre sized gossans) on outcrops are commonly due to pyrite aggregates in the finer portions of the beds. Unequivocal graded bedding was not observed. The provenance of the sulphide clasts is unknown, except that exhalative sulphides were intersected in drilling by Selco (see below), near the top of the rhyolite package, immediately below the sedimentary unit. Possibly, the sulphide clasts were derived by erosion of an exhalative horizon, after cessation of volcanic activity.

Mineralization & Alteration

Very little mineralization and alteration were observed in outcrop. Some samples (Table 1) exhibited wisps of sericite and chlorite along bedding planes. Only one was classified as weakly chloritized (#2988), but it is uncertain whether this sample is of rhyolite, or relatively less altered basalt. The presence of 5% disseminated pyrite also makes it the most mineralized in situ sample found. A round, cobble-sized erratic of highly oxidised, semi- to massive sulphides (# 2494: pyrrhotite, pyrite) was found sitting on top of mossy ground cover, on a topographic high on the cliffs above Centrefire Creek. Immediately adjacent outcrops of weakly chloritic to fresh rhyolite tuff, exhibited no mineralization or sulphide 'burns'.

Drilling by previous operators was confined to overburden covered areas below cliff exposures of generally fresh rhyolite. No casings or evidence of drill setups were found. Drilling by Selco in 1979 (hole #30-4-1, located approximately at Synergy's L4+20E/9+40N) intersected significant alteration (highly sericitized rhyodacite tuff) underlying (ie. north of) massive sulphide mineralization (two bands of pyrite-pyrrhotite, 1.5 m and 2.1 m thick, respectively). While Cu and Zn were insignificant, these intersections demonstrate the presence of a mineralizing hydrothermal system. Up dip projection of the favourable stratigraphy is in the overburden covered area parallel to L4+00E, south of BaseLine 10+00N. MMI samples were taken along the length of the favourable stratigraphy to 7+25S. The only outcrop in this area occurs a further 75 m south, above Centrefire Creek (Sample #2496: weakly chloritic rhyolite tuff, Table 1)

Drilling in 1979 by Rio Tinto Canadian Exploration (hole #79-G3, located at Synergy's L8+65E/9+75N) about 450m east of Selco's hole, intersected footwall graphitic, argillaceous beds, followed by sericitized and chloritized dacite (rhyolite?) cut by pyrite-pyrrhotite stringers, and including a 5cm vein of 30% Galena and 15% Sphalerite. The hole terminated in variably biotite-chlorite altered andesite/dacite breccia (with occasional garnets) cut by pyrite-pyrrhotite stringers. Again, up dip projection of the altered and mineralized package is in the overburden covered area below unaltered rhyolite cliffs.

On-strike extrapolation to the east crosses Centrefire Creek where the first outcrops are located at 400 m from Rio Tinto's drillhole, according to mapping by Page and Christie (1980); no alteration nor mineralization was described for these "intermediate" rocks.

8.0 CONCLUSIONS

The geological setting of the Centrefire Creek property is prospective in terms of its potential for hosting volcanogenic massive base metal sulphide deposits. The Mattabi Camp exhibits a similar succession of volcanic units deposited at a similar time in the development of this portion of the eastern Wabigoon Greenstone Belt. The nature and scale of alteration and mineralization in this area indicate the presence of a significant VMS-style hydrothermal system.

Lateral flow, confined to permeable volcanic units has been well documented in the Snow Lake Camp, Manitoba (Galley et al., 1990). These semi-conformable zones of alteration may attain a thickness of 300 m-700 m and a length of up to 12 km. Break-out eventually occurs at local syn-volcanic structures, and a more typical cross-cutting relationship is established. The semi-conformable zone of alteration may be found within 500 m to 3000 m stratigraphically below the ore-producing horizon.

9.0 RECOMMENDATIONS

Work on the Centrefire Property should include a detailed mapping program to define potential horizons unrecognised by the cursory nature of previous surveys. The Centrefire Property needs an additional grid in the southern portion of the claims.

Geophysical surveying (HLEM or TEM) of selected targets is recommended. Targets would be defined by anomalous base metals in MMI samples in overburden covered areas, probably on strike with a known conductor, possibly drill-tested (at a distance of over one kilometre away) in the past. Broad-scale lithogeochemical alteration and/or base metal enrichment anomalies would define the larger setting for potential mineralization.

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APPENDIX 1:
CENTREFIRE LITHOGEOCHEMICAL DATA

APPENDIX 1:
CENTREFIRE CREEK CLAIM BLOCK LITHOGEOCHEMICAL DATA

Sample #	SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	Na_2O	K_2O	TiO_2	P_2O_5	MnO	Cr_2O_3	LOI	TOTAL
2488	71.12	14.54	2.03	0.84	1.26	5.27	2.25	0.23	0.08	0.04	<0.01	1.27	98.93
2489	69.94	15.4	1.83	1.16	1.51	4.37	3.2	0.23	0.07	0.04	<0.01	1.47	99.22
2490	69.64	14.92	2.11	1.32	1.95	3.78	3.23	0.24	0.09	0.06	<0.01	1.71	99.05
2491	67.98	14.81	3.09	1.54	2.83	5.12	1.42	0.35	0.16	0.04	<0.01	1.89	99.23
2492	66.25	15.73	2.99	1.55	2.95	2.74	3.35	0.39	0.17	0.04	<0.01	3.32	99.48
2493	50.9	10.83	16.66	3.8	5.86	0.24	2.63	0.33	0.1	0.38	<0.01	7.11	98.84
2494	19.34	3.9	48.22	1.43	1.92	0.14	0.09	0.2	0.04	0.1	<0.01	23.06	98.44
2495	65.12	14.74	3.71	1.72	3.39	3.49	2.91	0.49	0.12	0.07	<0.01	3.6	99.36
2496	65.98	15.76	3.44	1.6	2.6	2.64	4.43	0.43	0.29	0.06	<0.01	2.19	99.42
2988	52.68	14.48	17	2.88	4.45	1.65	0.52	0.93	0.09	0.24	<0.01	4.65	99.57
BGS/8-99/001	60.36	14.95	4.35	2.41	6	3.13	2.4	0.43	0.19	0.11	<0.01	4.27	98.6
BGS/8-99/002	64.92	13.86	7.22	3.25	3.5	2.66	1.78	0.66	0.13	0.11	<0.01	1.34	99.43
BGS/8-99/003	65.46	17.01	3.44	1.32	3.58	3.44	2.37	0.51	0.22	0.07	<0.01	1.44	98.86
BGS/8-99/004	70.74	14.99	2.04	0.83	2.11	3.25	2.83	0.31	0.08	0.06	<0.01	1.58	98.82
BGS/8-99/005	67.37	16.78	1.79	1.29	1.97	3.33	3.34	0.43	0.16	0.03	<0.01	2.14	98.63
BGS/8-99/006	66.6	15.67	2.39	1.52	2.55	4.93	2.06	0.41	0.17	0.06	<0.01	2.76	99.12
BGS/8-99/007	68.65	15.19	2.88	1.35	2.54	4.51	1.78	0.35	0.14	0.04	<0.01	1.8	99.23
BGS/8-99/008	66.92	17.45	2.81	1.19	1.33	4.49	2.09	0.41	0.11	0.02	<0.01	1.72	98.54
BGS/8-99/009	68.07	16.3	2.76	0.96	1.65	4.59	2.52	0.38	0.15	0.03	<0.01	1.68	99.09
BGS/8-99/010	66.71	15.39	3.5	1.67	2.86	4.27	2.35	0.42	0.15	0.05	<0.01	2.05	99.42
BGS/8-99/011	68.78	14.62	3.31	1.29	2.26	3.99	2.18	0.36	0.13	0.05	<0.01	1.75	98.72
BGS/8-99/012	69.46	15.28	3.55	1.21	1.65	4.13	1.9	0.35	0.17	0.02	<0.01	1.71	99.43

APPENDIX 1:
CENTREFIRE CREEK CLAIM BLOCK LITHOGEOCHEMICAL DATA

Sample #	Ag ppm	Al %	As Ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga Ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
2488					1075															
2489					1600															
2490					1250															
2491					596															
2492					627															
2493					241															
2494					22															
2495					460															
2496					1050															
2988					136															
BGS/8-99/001																				
BGS/8-99/002																				
BGS/8-99/003																				
BGS/8-99/004																				
BGS/8-99/005																				
BGS/8-99/006																				
BGS/8-99/007																				
BGS/8-99/008																				
BGS/8-99/009	<0.2	1.17	<2	<10	190	<0.5	<2	0.68	<0.5	6	81	6	1.57	<10	<1	0.6	30	0.56	140	<1
BGS/8-99/010																				
BGS/8-99/011																				
BGS/8-99/012	0.2	2.3	2	<10	10	2	<2	2.14	<0.5	17	142	1175	3.8	<10	1	0.22	<10	0.95	600	1

APPENDIX 1:
CENTREFIRE CREEK CLAIM BLOCK LITHOGEOCHEMICAL DATA

Sample #	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V Ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Cu ppm aqua	Zn ppm aqua
2488		8				72				467						15		168		
2489		8				88				289						15		161		
2490		8				93				228						12		169		
2491		7				33				569						8		123		
2492		6				72				357						12		131		
2493		8				70				216						11		84		
2494		6				22				<2						4		42	1155	4170
2495		7				82				379						14		107		
2496		8				96				218						19		160		
2988		6				26				142						15		71		
BGS/8-99/001																				
BGS/8-99/002																				
BGS/8-99/003																				
BGS/8-99/004																				
BGS/8-99/005																				
BGS/8-99/006																				
BGS/8-99/007																				
BGS/8-99/008																				
BGS/8-99/009	0.07		19	610	4		<0.01	<2	1	45	0.06	<10	<10	20	<10		40			
BGS/8-99/010																				
BGS/8-99/011																				
BGS/8-99/012	0.25		33	170	<2		0.49	4	11	12	0.2	<10	<10	97	40		28			

Chemex Labs Ltd.

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To: ANALYTICAL SOLUTIONS LTD.

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TORONTO, ON
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Project :
Comments: ATTN: LYNDA BLOOM FAX: ANDREAS LICHTBLAU

Page Number :2
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Certificate Date: 06-SEP-199
Invoice No. : I9926703
P.O. Number :
Account : PIE

CERTIFICATE OF ANALYSIS A9926703

SAMPLE	PREP CODE		Al2O3 % XRF	CaO % XRF	Cr2O3 % XRF	Fe2O3 % XRF	K2O % XRF	MgO % XRF	MnO % XRF	Na2O % XRF	P2O5 % XRF	SiO2 % XRF	TiO2 % XRF	LOI % XRF	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
2988	208	226	14.48	4.45	< 0.01	17.00	0.52	2.88	0.24	1.65	0.09	52.68	0.93	4.65	99.57	136	26	142	6	71	15
2989	208	226	15.50	5.36	< 0.01	14.19	0.87	3.50	0.17	2.54	0.11	50.51	1.49	4.98	99.22	312	37	108	8	87	22
2991	208	226	15.13	3.90	0.01	7.47	0.63	4.01	0.11	3.43	0.12	60.59	0.61	3.06	99.07	102	20	168	10	134	16
2992	208	226	14.25	9.91	0.01	14.49	0.28	6.24	0.21	2.19	0.15	47.74	1.36	2.40	99.23	46	10	83	7	76	29
2993	208	226	15.81	6.91	< 0.01	4.51	0.37	2.19	0.10	3.45	0.12	62.73	0.54	2.53	99.26	83	15	188	6	129	16
2994	208	226	14.69	9.65	0.02	11.99	0.22	7.65	0.21	1.87	0.10	49.37	0.93	2.41	99.11	34	9	99	6	64	20
2995	208	226	14.42	10.66	0.03	11.76	0.16	7.95	0.19	1.51	0.08	49.17	0.88	2.36	99.17	56	12	103	7	58	18
2996	208	226	12.52	10.39	< 0.01	10.37	0.35	6.97	0.16	1.63	0.09	44.26	0.75	11.78	99.27	19	9	55	6	53	19
2997	208	226	10.68	1.74	< 0.01	2.29	1.43	0.46	0.04	2.62	0.09	77.36	0.22	1.41	98.34	252	46	77	10	151	15
2998	208	226	9.34	0.78	< 0.01	9.99	1.13	3.08	0.34	0.78	0.16	68.74	0.48	4.37	99.19	175	28	18	9	105	12
2999	208	226	15.18	2.00	< 0.01	8.01	0.98	3.69	0.21	4.02	0.13	61.59	0.59	2.89	99.29	153	31	144	7	138	13
3000	208	226	13.40	1.74	< 0.01	1.08	0.87	0.49	0.02	5.22	0.02	75.55	0.08	0.63	99.10	174	21	61	7	113	13
3001	208	226	14.11	10.97	0.01	11.85	0.29	7.42	0.19	1.82	0.09	49.95	0.86	1.47	99.03	55	8	86	6	57	19
3002	208	226	13.33	1.73	< 0.01	1.69	0.94	0.21	0.02	4.90	0.04	75.50	0.12	0.60	99.08	207	20	111	12	145	20
3003	208	226	14.31	10.08	< 0.01	13.37	0.20	7.14	0.21	1.89	0.09	48.24	0.98	2.75	99.26	25	10	103	7	64	20
3004	208	226	14.75	1.92	< 0.01	6.80	0.95	3.84	0.10	3.28	0.14	63.71	0.55	2.46	98.50	256	27	82	8	133	14
3005	208	226	14.93	4.41	< 0.01	5.47	0.98	3.03	0.15	2.91	0.12	64.30	0.55	2.46	99.31	199	31	174	11	143	18
3006	208	226	15.32	5.17	< 0.01	6.16	0.92	3.25	0.14	3.12	0.14	61.81	0.57	2.43	99.03	296	27	162	11	139	16
3007	208	226	15.39	3.64	< 0.01	4.10	0.96	1.80	0.06	4.43	0.15	66.81	0.48	1.45	99.27	157	25	216	10	131	15

CERTIFICATION:

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Account :PIE

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CERTIFICATE OF ANALYSIS A9926703

SAMPLE	PREP CODE		Al2O3 % XRF	CaO % XRF	Cr2O3 % XRF	Fe2O3 % XRF	K2O % XRF	MgO % XRF	MnO % XRF	Na2O % XRF	P2O5 % XRF	SiO2 % XRF	TiO2 % XRF	LOI % XRF	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
2481	208	226	9.01	13.52	< 0.01	11.73	0.21	5.88	0.37	0.12	0.08	54.29	0.31	3.52	99.04	70	12	43	5	68	15
2482	208	226	13.95	5.18	< 0.01	10.38	1.37	2.86	0.17	0.46	0.09	61.00	0.57	2.63	98.66	217	53	71	7	67	19
2483	208	226	12.18	9.50	0.02	9.78	0.46	8.44	0.16	1.26	0.06	46.30	0.57	9.88	98.61	48	17	70	5	39	15
2484	208	226	13.16	8.80	0.01	12.19	0.71	6.45	0.17	1.41	0.07	45.71	0.81	9.27	98.76	116	22	102	7	57	14
2485	208	226	16.95	3.88	< 0.01	4.09	1.59	2.02	0.06	4.32	0.12	63.48	0.46	2.34	99.31	370	35	207	9	151	17
2486	208	226	15.86	1.82	< 0.01	5.83	0.81	3.98	0.09	4.71	0.13	62.46	0.63	2.37	98.69	111	20	104	10	127	15
2488	208	226	14.54	1.26	< 0.01	2.03	2.25	0.84	0.04	5.27	0.08	71.12	0.23	1.27	98.93	1075	72	467	8	168	15
2489	208	226	15.40	1.51	< 0.01	1.83	3.20	1.16	0.04	4.37	0.07	69.94	0.23	1.47	99.22	1600	88	289	8	161	15
2490	208	226	14.92	1.95	< 0.01	2.11	3.23	1.32	0.06	3.78	0.09	69.64	0.24	1.71	99.05	1250	93	228	8	169	12
2491	208	226	14.81	2.83	< 0.01	3.09	1.42	1.54	0.04	5.12	0.16	67.98	0.35	1.89	99.23	596	33	569	7	123	8
2492	208	226	15.73	2.95	< 0.01	2.99	3.35	1.55	0.04	2.74	0.17	66.25	0.39	3.32	99.48	627	72	357	6	131	12
2493	208	226	10.83	5.86	< 0.01	16.66	2.63	3.80	0.38	0.24	0.10	50.90	0.33	7.11	98.84	241	70	216	8	84	11
2494	208	226	3.90	1.92	< 0.01	48.22	0.09	1.43	0.10	0.14	0.04	19.34	0.20	23.06	98.44	22	22	< 2	6	42	4
2495	208	226	14.74	3.39	< 0.01	3.71	2.91	1.72	0.07	3.49	0.12	65.12	0.49	3.60	99.36	460	82	379	7	107	14
2496	208	226	15.76	2.60	< 0.01	3.44	4.43	1.60	0.06	2.64	0.29	65.98	0.43	2.19	99.42	1050	96	218	8	160	19
2497	208	226	11.44	9.14	< 0.01	12.07	0.16	6.99	0.20	1.59	0.05	56.11	0.60	0.81	99.16	41	10	71	7	42	17
2498	208	226	14.73	9.57	< 0.01	13.83	0.16	8.77	0.15	2.21	0.06	47.80	0.81	1.24	99.33	27	12	94	5	48	18
2499	208	226	24.40	10.54	< 0.01	6.48	0.53	4.13	0.10	3.12	0.04	47.72	0.39	1.51	98.96	234	23	141	5	32	11
2500	208	226	12.46	12.06	0.02	13.45	0.15	8.34	0.22	1.90	0.07	47.94	0.71	1.43	98.75	59	10	89	5	50	14
2501	208	226	15.55	10.61	< 0.01	11.44	0.21	4.51	0.22	1.99	0.08	50.55	0.96	3.04	99.16	104	11	121	7	57	16
2502	208	226	15.49	12.29	0.02	11.25	0.60	7.19	0.22	1.89	0.07	48.46	0.81	0.89	99.18	44	32	89	5	49	18
2503	208	226	16.12	5.34	< 0.01	4.91	1.65	2.88	0.09	4.45	0.31	62.28	0.54	0.91	99.48	348	100	809	11	160	16
2504	208	226	14.92	14.46	0.01	13.36	0.38	2.87	0.22	< 0.01	0.06	46.43	0.96	1.28	94.95	161	26	124	6	51	19
2505	208	226	16.64	10.06	< 0.01	13.28	1.08	3.45	0.25	2.44	0.09	49.13	1.08	1.59	99.09	162	38	157	6	62	20
2506	208	226	15.65	12.32	0.01	11.99	0.36	6.72	0.17	1.56	0.06	49.09	0.76	0.62	99.31	38	21	118	4	43	17
2507	208	226	9.51	8.71	< 0.01	25.26	0.48	5.69	0.20	0.12	0.13	41.07	0.45	4.69	96.31	47	34	33	3	31	11
2508	208	226	14.85	10.65	< 0.01	13.47	0.37	5.50	0.23	2.85	0.14	49.07	1.45	0.68	99.26	37	14	89	8	94	27
2509	208	226	14.06	11.73	0.02	12.56	1.04	7.33	0.20	1.76	0.07	47.28	0.72	1.75	98.52	100	81	92	4	45	16
2510	208	226	13.10	10.42	0.01	12.39	0.83	7.49	0.22	2.43	0.07	49.99	1.07	0.76	98.78	50	59	92	5	60	21
2511	208	226	16.24	12.75	0.02	11.34	0.56	6.78	0.19	1.71	0.08	48.01	0.77	0.61	99.06	50	31	106	4	46	18
2512	208	226	14.92	10.68	0.02	11.92	0.66	6.66	0.21	2.69	0.08	49.89	0.81	0.66	99.20	69	45	76	5	50	18
2513	208	226	15.17	11.03	0.02	11.40	0.67	6.34	0.25	2.05	0.09	50.79	1.01	0.58	99.40	46	45	60	5	57	20
2514	208	226	14.46	9.24	< 0.01	18.70	0.72	4.31	0.21	1.87	0.06	43.82	0.80	5.25	99.44	83	87	50	5	48	16
2981	208	226	15.81	3.57	< 0.01	4.55	2.05	2.01	0.06	4.02	0.22	63.69	0.57	2.02	98.57	935	73	711	6	132	14
2982	208	226	13.78	2.48	< 0.01	2.26	1.45	1.07	0.05	4.41	0.14	70.82	0.39	1.86	98.71	645	55	544	7	122	12
2983	208	226	13.75	2.52	< 0.01	2.13	1.40	0.99	0.05	4.47	0.12	70.85	0.36	1.99	98.63	614	53	564	8	119	12
2984	208	226	16.42	3.20	< 0.01	4.99	2.66	2.05	0.05	3.50	0.23	63.65	0.61	1.51	98.87	1150	109	792	9	135	15
2985	208	226	12.68	8.18	< 0.01	3.66	1.73	1.63	0.09	2.74	0.19	61.47	0.38	5.93	98.68	949	69	864	7	101	12
2986	208	226	11.09	4.95	< 0.01	4.45	1.96	2.05	0.10	2.33	0.21	67.59	0.45	4.00	99.18	725	70	616	7	99	13
2987	208	226	8.99	14.09	< 0.01	8.29	1.19	6.34	0.30	2.19	0.19	38.21	0.37	19.05	99.21	440	39	917	6	95	17

CERTIFICATION: _____

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ANALYTICAL SOLUTIONS LTD.

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Project : CENTREFIRE CCK-03
Comments: ATTN: LYNDA BLOOM CC: TERRY BOTTRIU

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Total Pages 1
Certificate Date: 20-SEP-1999
Invoice No. : I9927928
P.O. Number :
Account : PIE

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CERTIFICATE OF ANALYSIS A9927928

SAMPLE	PREP CODE		Al2O3 % XRF	CaO % XRF	Cr2O3 % XRF	Fe2O3 % XRF	K2O % XRF	MgO % XRF	MnO % XRF	Na2O % XRF	P2O5 % XRF	SiO2 % XRF	TiO2 % XRF	LOI % XRF	TOTAL %
BGS/8-99/001	205	226	14.95	6.00	< 0.01	4.35	2.40	2.41	0.11	3.13	0.19	60.36	0.43	4.27	98.60
BGS/8-99/002	205	226	13.86	3.50	< 0.01	7.22	1.78	3.25	0.11	2.66	0.13	64.92	0.66	1.34	99.43
BGS/8-99/003	205	226	17.01	3.58	< 0.01	3.44	2.37	1.32	0.07	3.44	0.22	65.46	0.51	1.44	98.86
BGS/8-99/004	205	226	14.99	2.11	< 0.01	2.04	2.83	0.83	0.06	3.25	0.08	70.74	0.31	1.58	98.82
BGS/8-99/005	205	226	16.78	1.97	< 0.01	1.79	3.34	1.29	0.03	3.33	0.16	67.37	0.43	2.14	98.63
BGS/8-99/006	205	226	15.67	2.55	< 0.01	2.39	2.06	1.52	0.06	4.93	0.17	66.60	0.41	2.76	99.12
BGS/8-99/007	205	226	15.19	2.54	< 0.01	2.88	1.78	1.35	0.04	4.51	0.14	68.65	0.35	1.80	99.23
BGS/8-99/008	205	226	17.45	1.33	< 0.01	2.81	2.09	1.19	0.02	4.49	0.11	66.92	0.41	1.72	98.54
BGS/8-99/009	205	226	16.30	1.65	< 0.01	2.76	2.52	0.96	0.03	4.59	0.15	68.07	0.38	1.68	99.09
BGS/8-99/010	205	226	15.39	2.86	< 0.01	3.50	2.35	1.67	0.05	4.27	0.15	66.71	0.42	2.05	99.42
BGS/8-99/011	205	226	14.62	2.26	< 0.01	3.31	2.18	1.29	0.05	3.99	0.13	68.78	0.36	1.75	98.72
BGS/8-99/012	205	226	13.51	9.82	< 0.01	12.42	0.58	4.64	0.24	1.75	0.06	53.97	0.73	1.29	99.01
BGS/8-99/013	205	226	15.28	1.65	< 0.01	3.55	1.90	1.21	0.02	4.13	0.17	69.46	0.35	1.71	99.43
BGS/8-99/014	205	226	2.33	1.70	< 0.01	4.11	0.13	0.92	0.06	0.25	0.03	88.48	0.20	0.71	98.92

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: ANALYTICAL SOLUTIONS LTD.

1214 - 3266 YONGE ST.
TORONTO, ON
M4N 2L6

Project : CENTREFIRE CCK-03
Comments: ATTN: LYNDA BLOOM CC: TERRY BOTTRIU

Certificate 22-SEP-1999
Invoice No. :I9928471
P.O. Number :
Account :PIE

Centrefire/PD '99 Sampling.

CERTIFICATE OF ANALYSIS A9928471

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
BGS/8-99/009	299	229	< 0.2	1.17	< 2	< 10	190	< 0.5	< 2	0.68	< 0.5	6	81	6	1.57	< 10	< 1	0.60	30	0.56	140
BGS/8-99/012	299	229	0.2	2.30	2	< 10	10	2.0	< 2	2.14	< 0.5	17	142	1175	3.80	< 10	1	0.22	< 10	0.95	600
BGS/8-99/013	299	229	< 0.2	1.32	< 2	< 10	110	< 0.5	< 2	0.21	< 0.5	7	108	6	2.16	< 10	< 1	0.59	10	0.66	105
BGS/8-99/014	299	229	0.2	0.38	< 2	< 10	< 10	< 0.5	8	0.41	< 0.5	4	274	353	2.12	< 10	< 1	0.06	< 10	0.24	170

CERTIFICATION:

APPENDIX 2:
MMI SAMPLING DATA

SYNERGY EXPLORATIONS LTD.

CENTREFIRE PROPERTY

MMI SAMPLING

Sample #	Northing	Easting	Description
3343	1000	50	Spruce, thin cover, brown sand
NS	1000	100	Outcrop just below surface
NS	1000	150	Outcrop just below surface
NS	1000	200	Outcrop just below surface
NS	1000	250	Outcrop just below surface
3344	1000	300	Spruce & poplar, thin cover, brown sand, near outcrop
NS	1000	350	Outcrop just below surface
NS	1050	400	Outcrop
NS	1100	400	Outcrop
NS	1150	400	Outcrop
NS	1200	400	Outcrop
NS	1250	400	Outcrop
3347	1300	400	Spruce, medium spaghnum, dark brown sand
NS	1350	400	Outcrop
3348	1400	400	Alders, thin cover, brown sand
NS	1450	400	Outcrop
3349	950	400	Spruce & poplar, shallow outcrop, gray sand
3350	900	400	Spruce & alder, thick compost, gray clay
3351	850	400	Poplar & alder, thick compost, compost sample
3384	800	400	Spruce & poplar, medium compost, dark clay/soil
3386	750	400	Spruce, thin cover, brown sand
3387	700	400	Spruce, thin cover, brown sand
NS	1000	400	Outcrop
NS	1000	450	Outcrop
NS	1000	500	Outcrop
NS	1000	550	Outcrop
NS	1000	600	Outcrop
NS	1000	650	Outcrop
NS	1000	700	Outcrop
NS	1000	750	Outcrop
NS	1000	800	Outcrop
NS	1000	850	Outcrop
NS	1000	900	Outcrop
NS	950	900	Outcrop
NS	900	900	Alders, grassy bog, near stream
NS	1000	950	Outcrop
NS	1000	1000	Outcrop
NS	1000	1050	Outcrop
3388	1000	1180	Grassy bog, near stream, black soil-maybe mostly compost
NS	1000	1150	Flatland grasses, shallow outcrop
NS	1000	1100	Outcrop
3389	1150	900	Spruce & poplar, thick compost, black clay/soil
3390	1200	900	Spruce & poplar, medium compost, gray clay
NS	1250	900	Outcrop
NS	1300	900	Outcrop
NS	1350	900	Spruce bog

TOTAL 13 SAMPLES

APPENDIX 3:
GPS DATA FILE

Feature Name	Comment 1	Comment 2	GPS File #	GRID E	GRID N	UTM EAST	UTM NORTH		DESCRIPTION
GPS FILE DATA				FIELD DATA & DESCRIPTIONS					
						CORRECTED GPS			
Feature Name	Comment 1	Comment 2	GPS File #	GRID E	GRID N	UTM EAST	UTM NORTH		DESCRIPTION
LITHOGEOCHEMICAL SAMPLES									
SampleS	2488		A082914a.cor	125	1000	542353	5539067		Litho #2488: Rhyolite, mass, hairline Se, tr Py
SampleS	2489	BL10/400	A082914a.cor	400	1000	542642	5539027		Litho #2489: Rhyolite, mass, rusty hairline fractures
SampleS	2490		A082914a.cor	-	-	542799	5538989		Litho #2490: Rhyolite, flow or tuff?
SampleS	2491		A082914a.cor	675	1000	542953	5539049		Litho #2491: FP-Rhyolite, incipient Se alt
-	900	1125	A082914a.cor	910	1110	543135	5539141		Litho #2492: Rhyolite, FP-tuff, rare chl hairline veinlets
SampleS	2493		A082914a.cor	900	1012	543136	5539036		Litho #2493: Rhyolite tuff, mod chl
SampleS	2494	BL10/910E	A082914a.cor	910	995	543151	5539025		Litho #2494: melon-sized boulder, strongly gossanous, SMS?-Po, Mag
SampleS	2495	BL10/1013	A082914a.cor	1012	1000	543246	5539025		Litho #2495: Rhyplitic tuff, weakly chl
SampleS	2496		A082914a.cor	400	650	542656	5538666		Litho #2496: Rhyplitic tuff, weakly chl
SampleS	2988		A082914a.cor	-	-	542300	5539372		Litho #2988: Rhyolite, foliated, mod chl, 5% Py
CLAIM INFORMATION									
Line Post	1076662		A082914a.cor	-	-	542610	5538769		Line Post 800m N Post 3, #1076662
1077327	4	CL Post	A082914a.cor	-	-	542102	5539519		Post 4, #1077327
Point Feature		CL.RD	A082914a.cor	-	-	542300	5539394		Claim Line and road intersection
Point Feature		CL.RD	A082914a.cor	-	-	542108	5539494		" "
Point Feature		CL.RD	A083017a.cor	-	-	542521	5537977		" "
GRID LINES									
Grid Pt	400	700	A082914a.cor	400	700	542651	5538747		End of Line
Grid Pt	1025	1000	A082914a.cor	1025	1000	543263	5539022		Line Position
Grid Pt	900	1125	A082914a.cor	900	1125	543135	5539141		Litho #2492 at L9+10E/11+10N had too much cover for GPS
Grid Pt	675	1000	A082914a.cor	675	1000	542914	5539027		Line Position; photos down to CF Creek
Grid Pt	0	1000	A082914a.cor	0	1000	542247	5539026		Start of Grid on W side of main road
TOPOGRAPHY/MISCELLANEOUS									
Topo Feature		CF.CR.RD	A083014a.cor	-	-	542230	5538579		Kathlyn Lake Rd & Centrefire Creek
Topo Feature		REDHAT.CR	A083014a.cor	-	-	542459	5537679		Kathlyn Lake Rd & Redhat Creek
Topo Feature		RD RD	A083014a.cor	-	-	542416	5536725		Kathlyn Lake Rd and good forestry road going E (on air photo)
Topo Feature		RD RD	A083014a.cor	-	-	542640	5536165		Kathlyn Lake Rd and "new" Dryden-Hudson Rd intersection
Topo Feature		TP.RD	A083014a.cor	-	-	542200	5536268		McIlraith/Lomond N-S Township Line
Topo Feature		RD.RD	A083014a.cor	-	-	538054	5536679		Ghost Lake Rd and "new" Dryden-Hudson Rd intersection

5.0 SYNERGY 1998 PRELIMINARY PROGRAM

During the period August 19, 1998 to August 31, 1998, Synergy performed a preliminary program of limited linecutting, lithogeochemical and MMI sampling, and geological mapping. A total of 2,350 m of line were cut, chained and picketed; a total of 22 rock samples were taken for lithogeochemical analysis, and 13 soil samples were taken for MMI analysis.

Locations of all lithogeochemical sample points were determined with a Trimble Geoexplorer GPS unit (Appendix 3). Points on base and grid lines, claim posts and topographic features were also referenced. Field data was reduced and plotted on 1:5000 scale maps by Geo-Sat Enterprises, Thunder Bay, Ontario. Field data spreadsheets are appended

Contract personnel involved during this period were:

Andreas Lichtblau, Geologist (807)473-8172
RR#1, Nolalu, Ontario, P0T 2K0
Prospector's Licence #E33626

James Martin, Linecutter, Prospector (807)475-9138
RR# 7, Site 1, Comp. 12
Thunder Bay, Ontario, P7C 5V5

Ben Whitney, Geological Assistant
Box 250
21 Classic Ave.
Toronto, Ontario, M5S 2Z3

Contract personnel for the 1999 reconnaissance geological mapping and lithogeochemical sampling were:

Terrence Bottrill, Senior Geologist
192 Weldon Ave.
Oakville, ON L6K 2H6 (416)842-9884

Peter Eunson, Geological Assistant
99 Harbour Square, Suite 130B
Toronto, ON M4J 2H2 (416)861-1469

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: ANALYTICAL SOLUTIONS LTD.

1214 - 3266 YONGE ST.
TORONTO, ON
M4N 2L6

Project : CENTREFIRE CCK-03
Comments: ATTN: LYNDA BLOOM CC: TERRY BOTTRIU

Page Number : 1-A
Total Pages : 1
Certificate Date: 22-SEP-1999
Invoice No. : I9928471
P.O. Number :
Account : PIE

CERTIFICATE OF ANALYSIS A9928471

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
BGS/8-99/009	299	229	< 0.2	1.17	< 2	< 10	190	< 0.5	< 2	0.68	< 0.5	6	81	6	1.57	< 10	< 1	0.60	30	0.56	140
BGS/8-99/012	299	229	0.2	2.30	2	< 10	10	2.0	< 2	2.14	< 0.5	17	142	1175	3.80	< 10	1	0.22	< 10	0.95	600
BGS/8-99/013	299	229	< 0.2	1.32	< 2	< 10	110	< 0.5	< 2	0.21	< 0.5	7	108	6	2.16	< 10	< 1	0.59	10	0.66	105
BGS/8-99/014	299	229	0.2	0.38	< 2	< 10	< 10	< 0.5	8	0.41	< 0.5	4	274	353	2.12	< 10	< 1	0.06	< 10	0.24	170

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: ANALYTICAL SOLUTIONS LTD. *

1214 - 3266 YONGE ST.
TORONTO, ON
M4N 2L6

Project : CENTREFIRE CCK-03
Comments: ATTN: LYNDA BLOOM CC: TERRY BOTTRIU

Page Number :1-B
Total Pages :1
Certificate Date: 22-SEP-1999
Invoice No. :I9928471
P.O. Number :
Account :PIE

CERTIFICATE OF ANALYSIS A9928471

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BGS/8-99/009	299	229	< 1	0.07	19	610	4	< 0.01	< 2	1	45	0.06	< 10	< 10	20	< 10	40
BGS/8-99/012	299	229	1	0.25	33	170	< 2	0.49	4	11	12	0.20	< 10	< 10	97	40	28
BGS/8-99/013	299	229	< 1	0.08	22	580	8	0.40	2	2	29	0.06	< 10	< 10	22	< 10	44
BGS/8-99/014	299	229	8	0.04	11	60	2	0.10	< 2	3	3	0.07	< 10	< 10	26	30	14

CERTIFICATION:_____

Cash Account

Centrefire

09/12/99

Profit & Loss Statement

01/01/98 Through 09/12/99 (in Canadian Dollars)

Category Description	01/01/98-09/12/99
EXPENSES	
Accomodation	699.54
Assaying	599.95
Field Supplies	658.14
Gas And Mileage	296.88
Geochemical Sampling	350.00
Geological Mapping	2,617.50
Linecutting	450.00
Maps and Geological Reports	31.23
Meals & Ent	502.53
Prospecting	562.50
Report Writing	2,301.73
Travel Expenses	2,175.35
Vehicle Rental	259.43
TOTAL EXPENSES	11,504.78
TOTAL INCOME - EXPENSES	-11,504.78

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W9930.00094
Assessment Files Research Imaging

P ir c p

52K01SW2003 2.19873 LOMOND

900

:tion 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this ient work and correspond with the mining land holder. Questions about this evelopment and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario.

2.19873

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name	Client Number
Stuarton Resources Limited	301184
Address	**Telephone Number**
175 Shanley Terrace	905 - 845 - 3650
Oakville, ON L6K 2H6	Fax Number 905 - 844 - 4107
Name	**Client Number**
Address	**Telephone Number**
	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☑ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☐ Physical: drilling stripping, trenching and associated assays ☐ Rehabilitation

Work Type	Office Use
mapping, prospecting, line cutting, assaying ✓	Commodity
	Total $ Value of Work Claimed 11,505
Dates Work Performed From & 19 (Day) 23 (Month) 08 (Year) 98 To 31 (Day) 30 (Month) 08 (Year) 08 98 99	NTS Reference
Global Positioning System Data (if available) — Township/Area: Lomond, & McIlraith	Mining Division Patricia
M or G-Plan Number: G-2876	Resident Geologist District Sioux Lookout

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name	Telephone Number
Lynda Bloom	416 - 696 - 0918
Address	**Fax Number**
1214 - 3266 Yonge St., Toronto, ON, M4N 2L6	416 - 696 - 0911
Name	**Telephone Number**
Address	**Fax Number**
Name	**Telephone Number**
Address	**Fax Number**

RECEIVED
NOV 17 1999
GEOSCIENCE ASSESSMENT OFFICE

Details are to be ... utilized on the attached appendix ...

4. Certification by Recorded Holder or Agent

I, LYNDA BLOOM (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent		Date November 15, 1999
Agent's Address: Suite 890, 151 Bloor Street West, Toronto, ON M5S 1S4	Telephone Number 416 - 927 - 7000	Fax Number 416 927 - 1222

0241 (03/97)

Deemed: Feb. 15/2000

324

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W9930.00094

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	**Number of Claim Units.** For other mining land, list hectares.	**Value of work performed** on this claim or other mining land.	**Value of work applied** to this claim.	**Value of work assigned** to other mining claims.	**Bank.** Value of work to be distributed at a future date
eg	TB 7827	16 ha	$26,825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8,892	$ 4,000	0	$4,892
1	PA 1077327	16	11504.80	6400	0	5104.80
2						
3				2. 1999		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
	Column Totals					

I, Lyda Bloom, do hereby certify that the above work credits are eligible under
(Print Full Name)
subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
L Bloom	November 15, 1999

6. Instruction for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Minister may relieve all or part of assessment work submitted

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

RECEIVED
NOV 17 1999
GEOSCIENCE ASSESSMENT OFFICE

0241 (03/97)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9930.00094

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. 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, Ontario, P3E 6B5.

2.19873

Work Type	Units of work Depending on the type of work, list the number of hours/day worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Geological Mapping & Report	13 days	$378.40/day	$4919.25
Linecutting	2350 m	$191.50/km	$450.00
Geochemical Sampling	2 days	$175/day	$350.00
Assaying	22 samples	$27.27/sample	$599.95
Prospecting	2 days	$281.25/day	$562.50
Associated Costs (e.g. supplies, mobilization and demobilization).			
Field Supplies			$658.14
Maps and Reports			$31.23
Transportation Costs			$2731.66
Food and Lodging Costs			$1202.07
		Total Value of Assessment Work	$11504.80

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Lynda Bloom (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as agent (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature	Date
L Bloom	Nov. 15/1999

0212 (03/97)

RECEIVED
NOV 17 1999
GEOSCIENCE ASSESSMENT OFFICE

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9845
Fax: (877) 670-1555

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

March 29, 2000

STUARTON RESOURCES LTD.
178 SHANLEY TERRACE
OAKVILLE, ON
L6K-2H6

Dear Sir or Madam:

Submission Number: 2.19873

Subject: Transaction Number(s):		**Status**
	W9930.00094	Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact BRUCE GATES by e-mail at bruce.gates@ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 14723
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.19873

Date Correspondence Sent: March 29, 2000 **Assessor:** BRUCE GATES

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9930.00094	1077327	LOMOND, LOMOND, MCILRAITH	Approval After Notice	March 25, 2000

Section:
12 Geological GEOL

The revisions outlined in the Notice dated February 9, 2000 have been corrected.

Assessment work credit has been redistributed, as outlined on the attached Distribution of Assessment Work Credit sheet.

Correspondence to:

Resident Geologist
Sioux Lookout, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Lynda Bloom
TORONTO, ON, CAN

STUARTON RESOURCES LTD.
OAKVILLE, ON

Correspondence ID: 14723

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s).

Date: March 29, 2000

Submission Number: 2.19873

Transaction Number: W9930.00094

Claim Number	Value Of Work Performed
1077327	11,155.00
Total: $	11,155.00

Correspondence ID: 14723

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

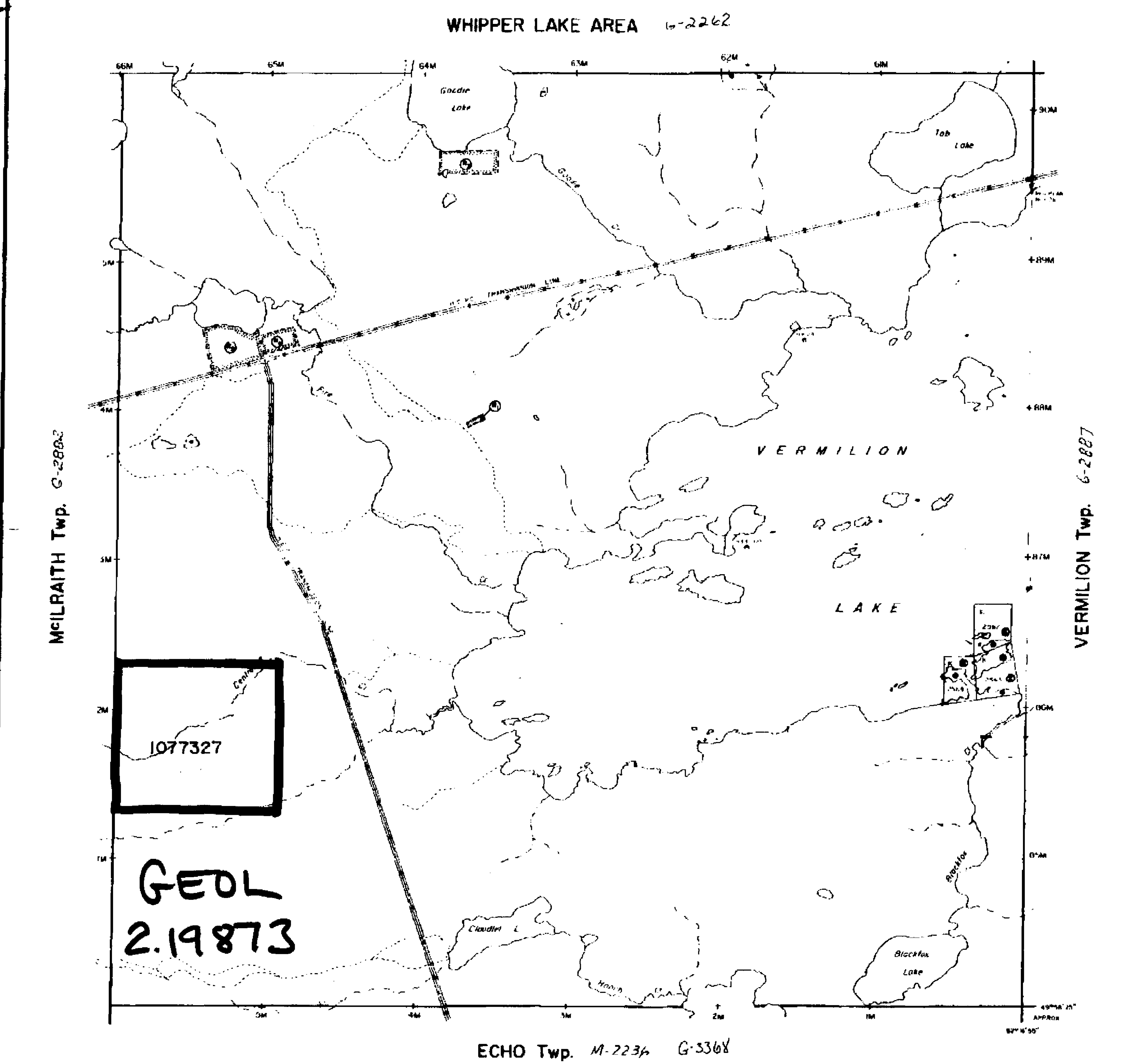
M.R.O. MINING RIGHTS ONLY
S.R.O. SURFACE RIGHTS ONLY
M + S. MINING AND SURFACE RIGHTS

Description	Order No	Date	Disposition	File
W 02/79		20/4/79	S.R. & M.R.	[illegible]
W 3/80		22/12/80	S.R.O.	[illegible]
W 57/82		12/11/82	S.R.O.	[illegible]
W 58/82		12/11/82	S.R.O.	[illegible]

SAND AND GRAVEL

M.N.R. GRAVEL PIT No 81
M.N.R. GRAVEL RES. PIT No 203 FILE [illegible]
M.N.R. GRAVEL RES. PIT No 60 FILE [illegible]

FOREST ACTIVITY INFORMATION
THIS TOWNSHIP/AREA FALLS WITHIN THE
CROWN FOREST MGT. UNIT
AND MAY BE SUBJECT TO FORESTRY OPERATIONS.
THE M.N.R. UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT:
P.O. BOX 309
SIOUX LOOKOUT, ONTARIO P0V 2T0
(807) 737-1140



LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC.
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON-PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	◐
" MINING RIGHTS ONLY	◑
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◧
" MINING RIGHTS ONLY	◨
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	®
CANCELLED	⊗
SAND & GRAVEL	ⓢ

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS

TOWNSHIP
LOMOND
M.N.R. ADMINISTRATIVE DISTRICT
SIOUX LOOKOUT
MINING DIVISION
PATRICIA
LAND TITLES / REGISTRY DIVISION
KENORA

Ministry of Natural Resources Ontario
Land Management Branch

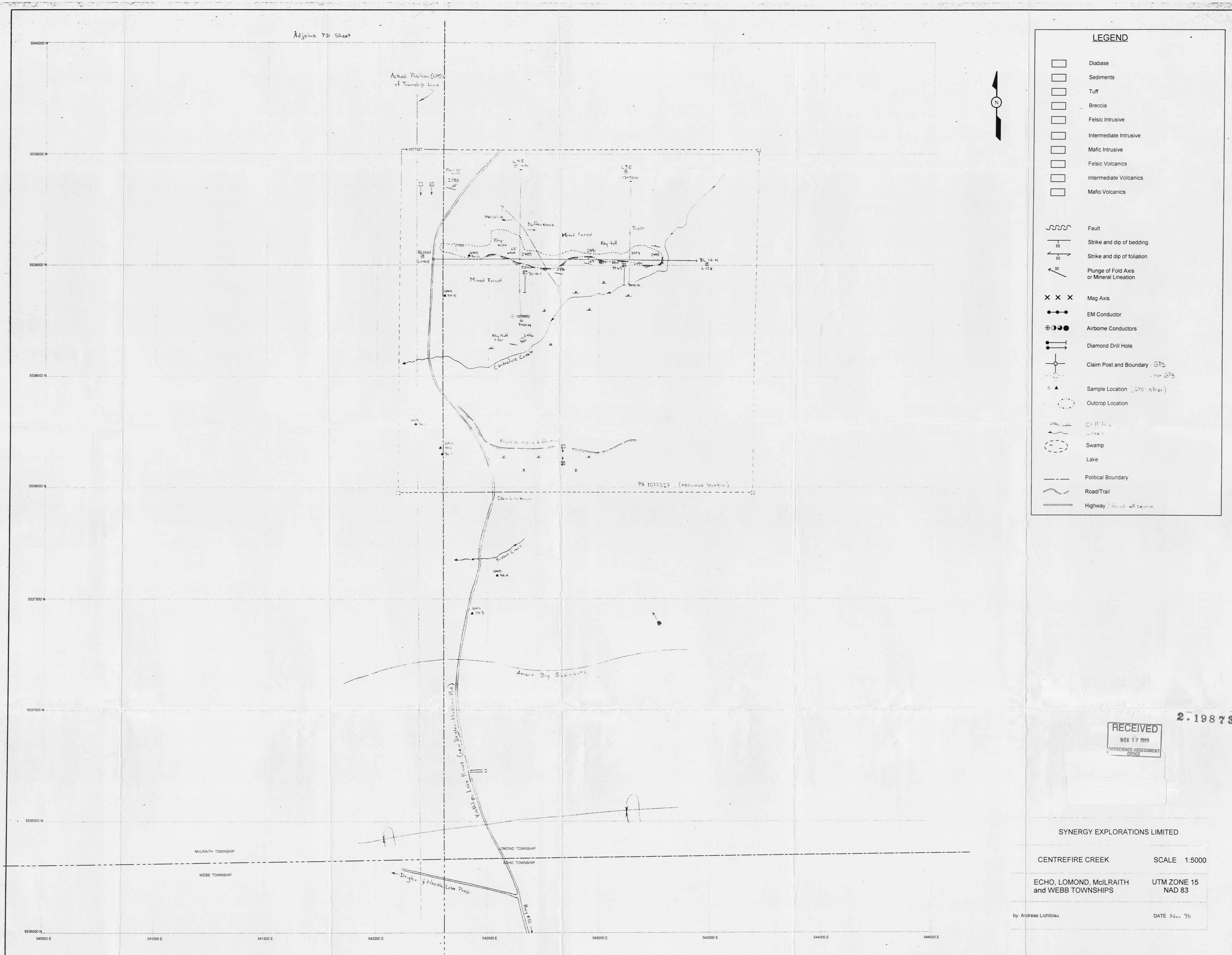
Date MAY 1985

Number G-2876

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

LOMOND TWP.
G-2876

52K01SW2003 2.19873 LOMOND 200



52E01SW2003 2.19873 LOMOND 210

542000 542200 542400 542600 542800 543000 543200 543400 543600

5539600 5539400 5539200 5539000 5538800 5538600 5538400 5538200 5538000 5537800 5537600 5537400 5537200 5537000

BGS/8-99/012
BGS/8-99/011
2988
BGS/8-99/007
BGS/8-99/008
BGS/8-99/009
BGS/8-99/010
2488
2491
2492
2493
2494
2495
2489
2490
2496
BGS/8-99/005
BGS/8-99/006
BGS/8-99/001
BGS/8-99/004
BGS/8-99/003
BGS/8-99/002

N

GEOLOGICAL LEGEND
- 1a: Massive lava
- 1d: Pillow lava
- 1e: Coarse mafic fragmental rocks
- 2: Intermeditae Metavolcanics
- 2a: Massive aphanitic lava
- 2b: Massive porphyritic lava
- 2c: Breccia, tuff-breccia, agglomerate
- 2d: Lapillistone, lapilli-tuff
- 2e: Crystal-lithic tuff, lithic tuff
- 3: Felsic Metavolcanics
- 5b: Pebbly feldspathic arenite, felds. wacke

52K01SW2003 2.19873 LOMOND 220

2.19873

MAP LEGEND

- Outcrop
- Road
- Drainage/Lake
- Claim Boundary

TERDEX

0 100 200 300
Scale 1:5000

SYNERGY EXPLORATIONS LTD.

CLAIM: 1077327
Geological Map with
Sample Locations

SCALE 1:5000