NTS: 32D/SW

REPORT OF
HEAVY MINERAL SAMPLING
FOR KIMBERLITE INDICATOR MINERALS
ON THE McGARRY PROPERTY
McGARRY AND McVITTIE TOWNSHIP'S, ONTARIO
GOLDSTAKE EXPLORATIONS INC.

For: Goldstake Explorations Inc.
2150 Winston Park Drive
Oakville, Ontario L6H 5R7

By: Robert J. Dillman P.Geo.
Arjadee Prospecting
8901 Reily Drive
Mount. Brydges, Ontario N0L1W0
Phone/ Fax 519-264-9278
davidson.dillman@sympatico.ca

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I. INTRODUCTION

Scope

This report summarizes a heavy mineral survey for kimberlite indicator minerals on the McGarry Property situated in McGarry and McVittie Township's in Ontario. A total of 44 heavy mineral concentrates were examined for kimberlite indicator minerals. The heavy mineral concentrates were derived from samples of glacial till and from gravel collected from the beds of streams crossing sections of the survey area. Kimberlite minerals were identified in most of the samples in concentrations ranging between a few minerals to hundreds of minerals per sample. The kimberlite minerals identified by this survey include: pyrope and eclogite garnet, chrome diopside, olivine, picroilmenite and chromite. The strongest concentration of kimberlite minerals were found in the area south of Stump Pond. Fosterite olivine, which is very susceptible to erosion, forms a significant component of the kimberlite mineral anomaly in the Stump Pond area. Strong concentrations of olivine combined with good preservation of grain morphologies and magmatic features on grain surfaces provides good evidence suggesting the kimberlite minerals are derived from one or more local kimberlite sources. Analyses of some kimberlite minerals from the Stump Pond area using an electron microprobe detected the presence of chrome diopside and olivine grains with grain chemistries corresponding to harzburgite paragenesis and trends known coexist with diamond. The electron microprobe also detected the presence of eclogite garnet with compositions similar to garnet associated with diamond eclogite paragenesis. The heavy mineral survey by Goldstake has traced the kimberlite mineral anomaly northeast following the path of the oldest glacial advance and points towards Junction Pond as a potential source area. Magnetometer surveys over Stump Pond and Junction Pond show 4 unexplained ground magnetic features which resemble pipes and dykes and possible sources of the kimberlite minerals. A six-hole diamond drill program is recommended to test the kimberlite and diamond potential of the magnetic features. Discrete magnetic responses situated under Junction Pond are situated directly on the path of glaciation to and at the apparent apex of the Stump Pond kimberlite mineral anomaly.

Location and Access

The McGarry Property is located in the Virginiatown-Kearns section of Larder Lake Mining Division in northeastern Ontario (Figure 1). The property is situated in the north region of McGarry Township and extends west into the east-central and northeast sections of McVittie Township.

The McGarry Property is situated 1 kilometre north of the town of Virginiatown located on Highway 66. The McGarry Property has good seasonal road access via several routes. During dry conditions access can be made by 4 wheel drive truck to the north section of the property via a forest access road from the village of Cheminis located 4 kilometres east of the property. Access to parts of the property via this route using a truck or large machinery is blocked by a creek which has washed-out a section of the road. Access to other regions of the property is possible by ATV or snowmobile via a series of old drill roads. The property is also accessible by rail and is crossed by the Ontario Northlands Railway.

The property is covered at a scale of 1:100,000 by the Provincial Series Sheet: Larder Lake N.T.S. 32D/SW. Using NAD 83, Zone 17, the property is bounded between UTM coordinates: 600000mE to 610000mE and 5332000mN to 5348200mN.

Claim Logistics and Ownership

The McGarry Property consists of a Mining Lease and 28 contiguous unpatented mining claims covering an approximate area of 2,365 hectares (Figure 2) Table 1. summarizes the logistics of the claim block.

Titles to 17 mining claims comprising the McGarry Property are recorded in the name of Transpacific Resources Inc. and 11 mining claims are held by Goldstake Explorations Inc.

Survey Dates and Personnel

In 2006, between July 7 and July 19, Goldstake mobilized a high-hoe excavator to the property and collected ten (10) one (1) tonne till samples on CLM298 at two locations south of the railway tracks. This work was supervised by Claude Jacques of Val D'or, Quebec and assisted by Bernie Sampson of Virginiatown, Ontario.

In August, 2006, till samples from the program were shipped for heavy mineral processing at Goldstake facilities in Sudbury, Ontario. Portions of each sample were also sent for heavy mineral processing and kimberlite mineral evaluation at C.F. Minerals Inc. in Kelowna, British Columbia.

In September 2006, as a result of processing problems at Goldstake facilities in Sudbury, bulk till samples were sent for heavy mineral processing and kimberlite mineral selection to Arjadee Prospecting in Mount Brydges, Ontario. The work was completed by September 30, 2006 by Robert Dillman (author). Mineral grains selected during this work were analyzed between September 20 and September 25, 2006 using an electron microprobe at R.L. Barnet Geological Services in Lambeth, Ontario.

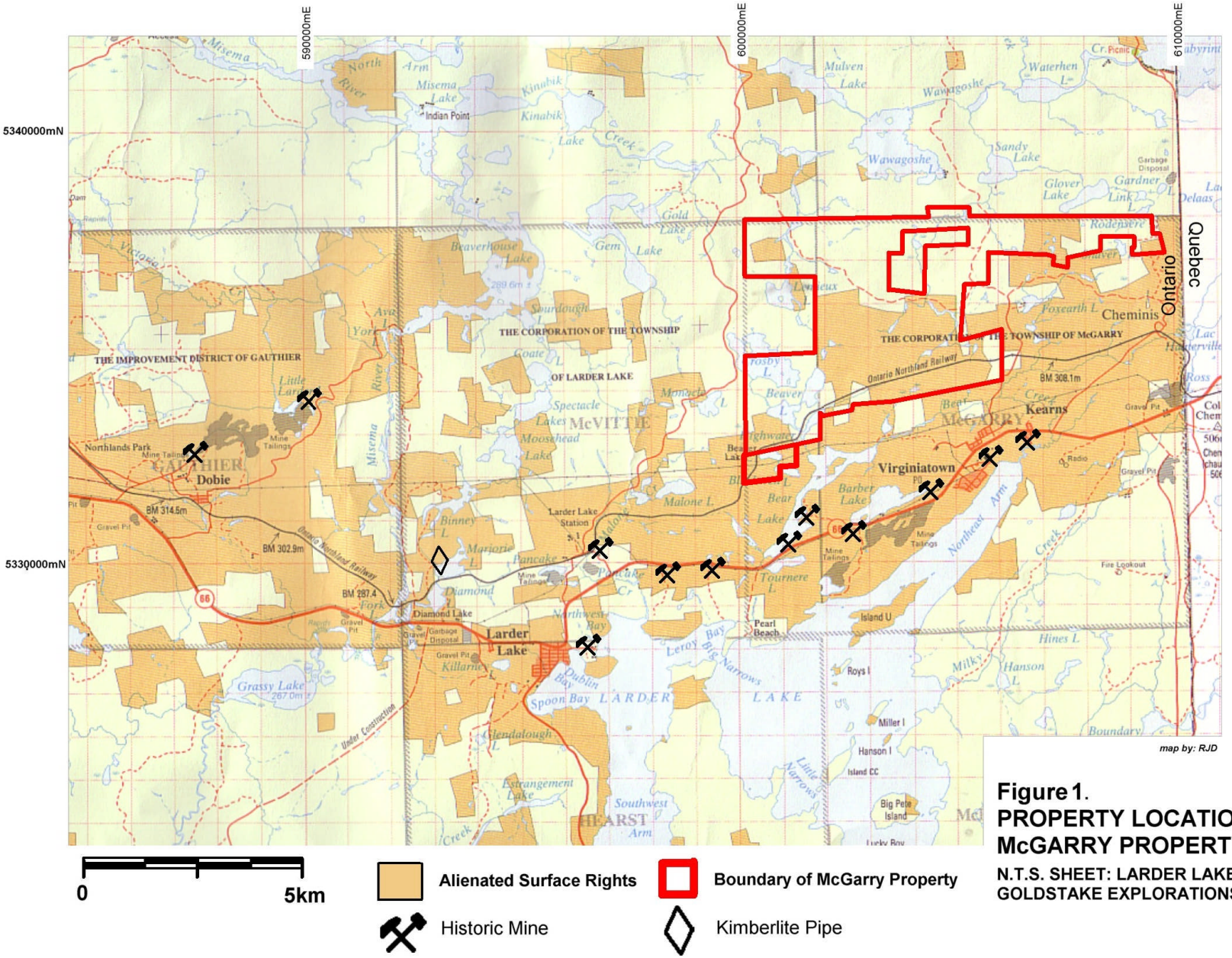


Figure 1.
PROPERTY LOCATION MAP
McGARRY PROPERTY
N.T.S. SHEET: LARDER LAKE 32 D/SW
GOLDSTAKE EXPLORATIONS INC.

Between November 7 and November 12, 2006, the author spent 6 days collecting 13 heavy mineral samples. This work was assisted by Claude Jacques and Bernie Sampson. The samples were processed and analyzed by Arjadee Prospecting by the end of November in 2006.

Between December 17 and December 22, 2006, Jim Chard of Cordova Mines, Ontario spent 6 days collecting an additional 11 till samples on CLM298. This work was assisted by Bernie Sampson. The heavy mineral samples were spent to Arjadee Prospecting for processing and kimberlite mineral analyses. This work was completed by the January 14, 2007.

Between June 2 and June 8, 2007, Robert Dillman and Jim Chard spent 6 days collecting an additional 10 till samples from the property. Work was focused on CLM298. One sample was collected on claim 1125087. Samples were processed and analyzed by the author by June 19, 2007.

Topography and Land-Use

The McGarry Property is at an elevation ranging 300 to 400 metres above sea level. Most sections of the property have gentle topography with relief varying 20 to 30 metres. Higher elevations and rougher topography occupy the northern sections of the property. Relief in these areas ranges 50 to 100 metres. Low areas of the property are generally covered by swamp and small ponds caused by beavers damming small streams. North of the railway line, streams flow towards the north. South of the railway line, streams flow south.

Property is situated on forested lands composed of a mixture of conifers and deciduous trees. Isolate areas in the southeast section of the property have been logged recently.

The McGarry Property is uninhabited. There is a seasonally used cabin situated north of the road on claim 1193122. Generally, the property is situated on land used for logging and recreational purposes including: hunting, fishing, ATV riding and snowmobiling.

Table 1
Claim Logistics: McGarry Property
Goldstake Explorations Inc.

Transpacific Resources Inc. Client # 300722						
Township	Claim Number	Units	Size (Ha)	Assessment Due Date	Work Required	$ Banked/ Reserve
McGarry G-3678	1186428	1	16	2011 May 10	$400	0
	1193121	4	64	2011 Jan. 26	$1600	0
	1193122	4	64	2011 Jan. 26	$1600	0
	1193123	2	32	2011 Jan. 26	$800	0
	1202670	4	64	2011 Aug 02	$1600	0
	1202672	2	32	2011 Aug 02	$800	0
	1205736	1	16	2011 May 10	$400	0
	1205890	3	48	2011 May 10	$1200	0
	1205891	2	32	2011 May 10	$800	0
	1205892	2	32	2011 May 10	$800	0
	1217681	3	48	2011 May 01	$1200	0
	1221811	2	32	2011 Jan. 03	$800	0
	1221812	2	32	2011 Jan. 03	$800	0
	1225085	4	64	2011 May 01	$1600	0
	1225087	3	48	2011 May 01	$1200	0
	1225091	2	32	2011 May 08	$800	0
McVittie G-3163	1211910	8	128	2009 May 13	$3200	0
		49	784		$19,600	

Goldstake Explorations Inc. Client # 137968						
Township	Claim Number	Units	Size (Ha)	Assessment Due Date	Work Required	$ Banked/ Reserve
McGarry G-3678	3018239	14	224	2008 Feb 14	$5600	0
	4209223	1	16	2008 Mar 27	$400	0
McVittie G-3163	3018238	12	192	2008 Feb 14	$4800	0
	4205035	13	208	2008 Jun 22	$5200	0
Ossian M-0378	3018240	3	48	2008 Feb 14	$1200	0
		43	688		$17,200	

Pending Transfer

Goldstake Explorations Inc. Client # 137968						
Township	Claim Number	Units	Size (Ha)	Assessment Due Date	Work Required	$ Banked/ Reserve
McVittie G-3163	42174484	1	16	June 2009	$400	0
	42174485	1	16	June 2009	$400	0
	42174486	1	16	June 2009	$400	0
	42174487	1	16	June 2009	$400	0
	42174488	1	16	June 2009	$400	0
	42174489	1	16	June 2009	$400	0
		6	96		$2,400	

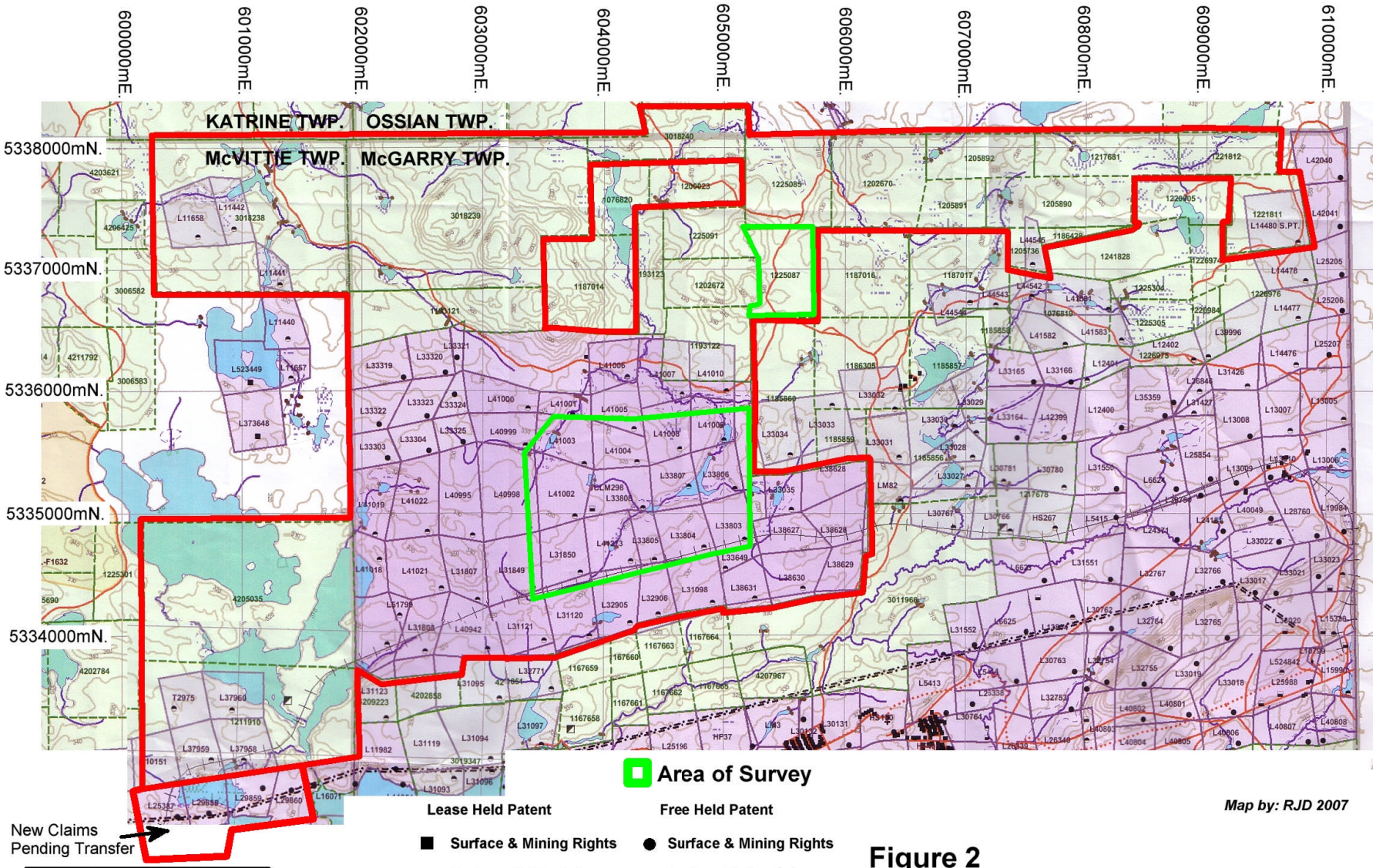


Figure 2
CLAIM MAP
MCGARRY PROPERTY
GOLDSTAKE EXPLORATIONS INC.

Regional and Property Geology

Regional geology is summarized in Figure 3. Property geology is summarized in Figure 4.

The McGarry Property is situated in the Larder Lake section of the Abitibi Greenstone Belt. The Abitibi Greenstone Belt is a thick, steeply dipping volcanic sequence trending in a northeast direction across the Quebec-Ontario border. Rock units within the greenstone belt belong to the Abitibi Subprovince and are mostly Archean in age.

Volcanic rocks in the vicinity of the McGarry Property were emplaced during two volcanic cycles. The Blake River assemblage, dated at 2701 +/- 2 Ma, forms the core of the greenstone belt and provides a minimum age for the volcanic cycles. The Blake River assemblage underlies the north section of McGarry Twp. and most of the McGarry Property. The assemblage consists of extensive mafic to felsic calc-alkalic volcanic rocks, minor units of iron formation and interflow turbidites. The Larder Lake assemblage, outcropping south of the property is characterized by older tholeiitic basalt, komatiite flows, minor units of felsic volcanic rocks and turbidites. The Kinojevis North assemblage forms a broad unit of homoclinal mafic flows extending across the north margin of the Abitibi Greenstone Belt. West of the property, volcanic cycles are represented by the Kinojevis South assemblage, composed of folded mafic flows and by the Gauthier assemblage consisting of intermediate to felsic units of volcanic breccia, agglomerate and tuff.

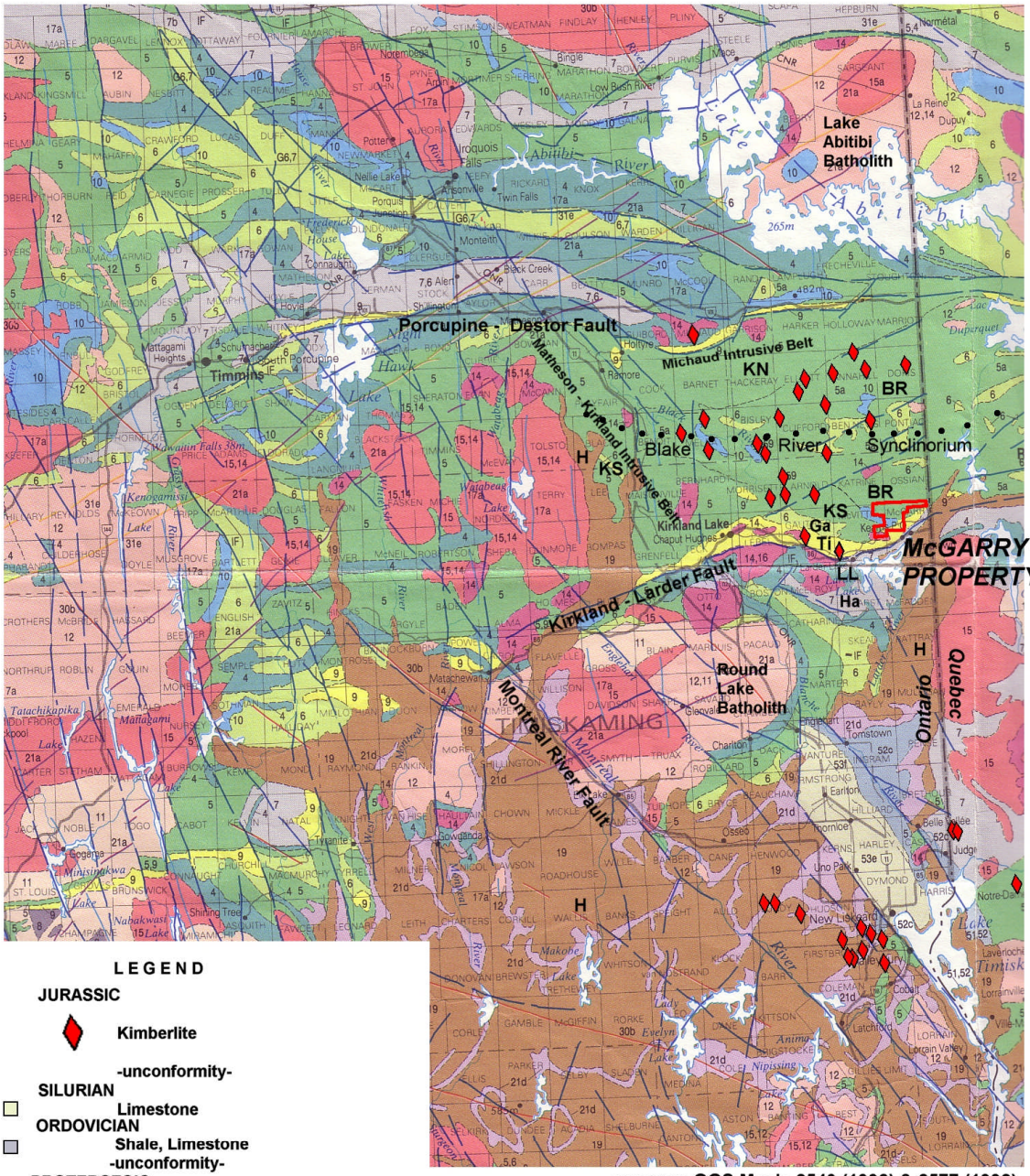
The southwest section of the McGarry Property is situated on the boundary between the Blake River assemblage and the older Kinojevis South assemblage.

Small gabbro and diorite stocks intruded the Blake River assemblage between 2710 to 2690 Ma.

The Kinojevis South and Blake River assemblages are overlain by alluvial and fluvial units of conglomerate, sandstone and thin volcanic flows of trachytes belonging to the Timiskaming Group. Rocks of the Timiskaming Group formed between 2685 to 2680 +/-3 Ma and are separated from the older volcanic rocks of the Kinojevis and Blake River assemblages by an unconformity which trends roughly east-west across the south section of the property.

Towards the end of the of Archean, the Abitibi Greenstone Belt was intruded by diorite and granodiorite dated 2681 to 2676 +/- 3 Ma forming the Michaud Intrusive Belt and the Matheson – Kirkland Intrusive Belt. The trend of the Matheson – Kirkland Intrusive Belt follows conjugate structures associated the Lake Timiskaming Structural Zone and early development of the Montreal River Fault.

During the Proterozoic, the Abitibi Greenstone Belt was intruded by northwest trending diabase dykes of the Matachewan – Hearst Swarm between 2250 to 2454 Ma and by two northeast trending dyke events belonging to the Preissac Swam at 2250 to 1800 Ma and the younger Abitibi Swarm between 1220 to 1120 Ma. Rare lamprophyre dykes also intruded the region during the Proterozoic. Several lamprophyre dykes are reported on and in the vicinity to the McGarry Property.



LEGEND

JURASSIC

Kimberlite

-unconformity-

SILURIAN

Limestone

ORDOVICIAN

Shale, Limestone

-unconformity-

PROTEROZOIC

17/21 Diabase

Metasedimentary Rocks (Huronian H)

-unconformity-

ARCHEAN

Granite

Diorite

Granodiorite

Gabbro

-intrusive contact-

Clastic Metasedimentary Rocks (Timiskaming Group Ti)

-unconformity-

Metasedimentary Rocks (Kinojevis Group)

Felsic Metavolcanic Rocks

Mafic Metavolcanic Rocks

Ultramafic Rocks

BR Blake River assemblage
KN Kinojevis North assemblage
KS Kinojevis South assemblage
LL Larder Lake assemblage
Ga Gauthier assemblage
Ha Hearst assemblage

Fault

sources: OGS Map's 2543 (1992) & 2577 (1992)
OGS Misc. Paper 110, pg. 213

map by: RJD 2007

Figure 3.
REGIONAL GEOLOGY
McGARRY PROPERTY
Timmins-Kirkland Lake Area, Ontario
GOLDSTAKE EXPLORATIONS INC.

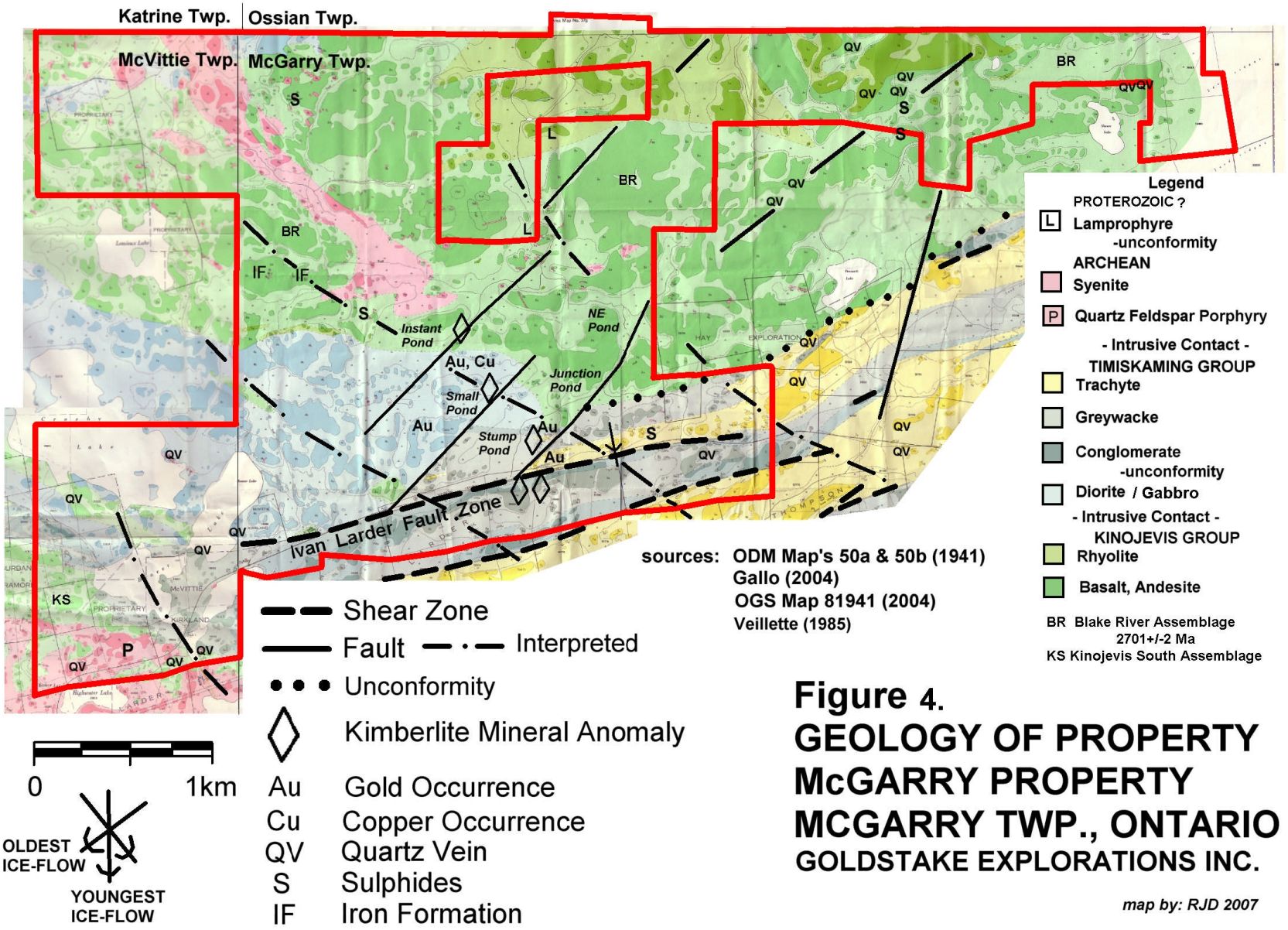


Figure 4.
GEOLOGY OF PROPERTY
McGARRY PROPERTY
MCGARRY TWP., ONTARIO
GOLDSTAKE EXPLORATIONS INC.

map by: RJD 2007

The McGarry Property is situated southeast of the Kirkland Lake kimberlite field known to contain +20 kimberlite pipes and dykes. The Diamond Lake Pipe, located in McVittie Twp. 9 kilometres west of the McGarry Property is the closest known kimberlite pipe to the property. Kimberlite intrusions occurred in the Jurassic period between 173 to 121 Ma and form the youngest volcanic rocks in the Abitibi Greenstone Belt. Pipes are known to develop close to northwest trending faults belonging to the Lake Timiskaming Structural Zone and older structures such as the northeast trending faults crossing the Blake River assemblage.

The Abitibi Greenstone Belt is crossed by 4 directions of faulting. East-west trending faults extending along the margins of the greenstone belt and conjugate northeast trending faults form the oldest and most extensive structures. The oldest faults include the famous Porcupine – Destor Break and the Cadillac - Larder Break, the latter crossing McGarry Twp. south of the property. Shear zones, quartz veins, extensive deformation and alteration occur along the older structures and are the sites of numerous gold mines and gold occurrences in Ontario and Quebec. Older faults are cut by conjugate sets of north and northwest trending faults associated with deep-seated rifting of the Lake Timiskaming Structural Zone. Faulting associated with the Lake Timiskaming Structural Zone began in the Archean and continued to the Paleozoic era.

The McGarry Property is situated over the intersection of the Blake River and Kinojevis South assemblage's and the younger Timiskaming Group. The Blake River assemblage occupies most of the north section of the property and consists of east-west trending, steeply-dipping mafic metavolcanic flows, felsic tuffs and minor metasedimentary units including iron formation. In the northwest corner of the property, the Blake River assemblage has been intruded by syenite porphyry and diorite stocks of various sizes. Outcrops of the Kinojevis South assemblage are exposed in McVittie Twp. in the southwest corner of the property. The boundary between the Blake River and Kinojevis South assemblages in the southwest section of the property is obscured by a large dioritic body. Timiskaming units cross the south section of the property and are separated from the older volcanic units by an unconformity. Quartz feldspar porphyry intrudes the Timiskaming Group and Kinojevis South assemblage in McVittie Twp.

The boundary between the Timiskaming Group and the older Blake River and Kinojevis assemblages is faulted and sheared by the Ivan Larder Fault which crosses the entire south half of the McGarry Property. The Ivan Larder Fault is composed of a series of parallel faults considered conjugate with the famous Cadillac – Larder Break found south of the property. Rock units proximal to the Ivan Larder Fault are deformed by shearing and altered by carbonate flooding locally accompanied by quartz veining. Three parallel, northeast trending faults cross the central section of property. The faults displace the unconformity below the Timiskaming Group and most rock units by 200 to 500 metres. Several areas of prominent gold-copper-sulphide mineralization have been discovered in alteration-deformation-shear zones situated close to northeast and east-west trending faults. Geophysical data suggests the property is also crossed by discrete northwest trending faults possibly related to recent developments of the Lake Timiskaming Structural Zone.

Glaciation

Sections of the property are covered by thin layers of till deposited by three pulses of glaciation of the Laurentide Ice Sheet occurring approximately 115,000 years ago (Veillette, 1985) (Figure 6.). Striation marks found regionally and on outcrop surfaces on the property indicate an initial ice advance towards the southwest followed by two contrasting ice-flows, one moving towards the southeast and a final event advancing towards the south.

Striation marks of the initial ice event are rare since abrasion by the two younger ice events have destroyed most evidence of the initial event. Striation marks orientated at 212^0, which are believed to represent the movement of the first ice-flow, can be found on the east face of an outcrop in the stripped area over the “G Zone” located south of Stump Pond at UTM coordinates: 604474mE, 5334964mN.

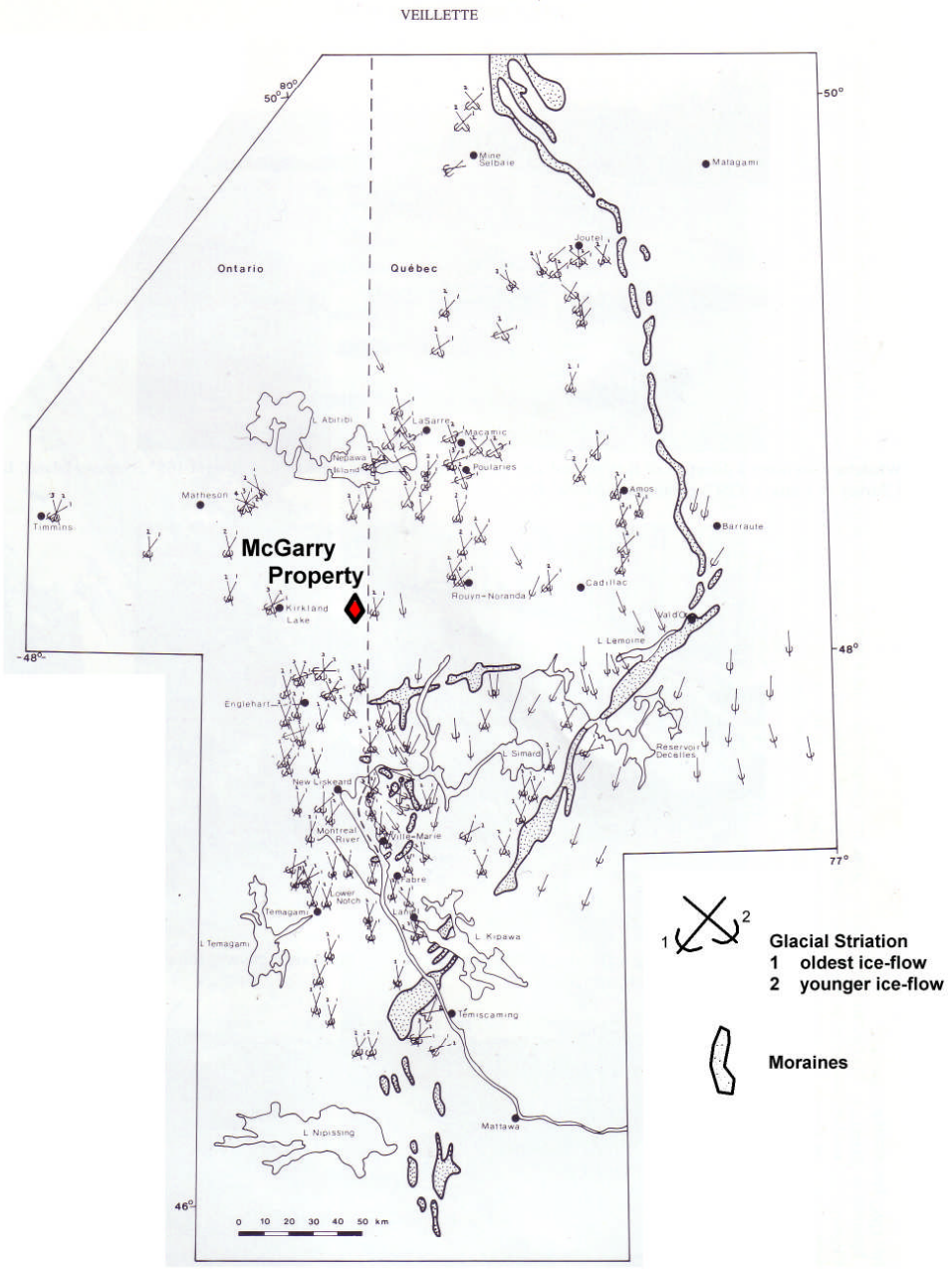
Striation marks of the final ice-flow are very evident on outcrop surfaces throughout the property and these generally range 170 - 180^0. Ice abrasion during the final event has erased most evidence of former glaciations. No evidence was found during the survey of the second ice-advance.

History of Exploration

Between 1983 and 1984, a series of heavy mineral surveys for gold mineralization by Dr. Hulbert A. Lee resulted in the identification of kimberlite indicator minerals in samples of glacial till collected in the vicinity to Stump Pond. The kimberlite minerals are described as: purple and orange coloured garnet, green coloured diopside, yellow olivine, ilmenite, kimberlitic rock clastes and 3 potential diamonds. No mention is made if the potential diamonds were verified beyond visual identification. The till sampling program conducted by Dr. Lee focused on exploring south and west sections of the current boundaries of the property and lead to the first identification of olivine associated with the kimberlite minerals found in the Stump Pond area.

A drill program conducted in 1983 during the coarse of exploration in the Stump Pond area by newly formed joint venture partners: Lee Geo-Indicators and McGarry Gold Partnership Inc reports drill hole 83-5 crossed a 3 foot wide unknown dyke-like rock described as “polymictic conglomerate with a signal green grain of fucsite or chrome diopside” at a depth of 252 feet. The casing of a drill hole believed to be 83-5 is situated 10 m northwest from the kimberlite minerals found at the SSP Site during this survey. No mention is made if Dr. Lee examined this core.

In 1984 a ground magnetometer survey was undertaken over the Mining Lease by Sagax Ltd. on behalf Lee Geo-Indicators and McGarry Gold. The survey identified three sub-circular magnetic responses in the vicinity to the kimberlite minerals found in the Stump Pond area which Dr. Lee considered to be potential kimberlite pipes. Two of the features were tested in 1984 by drilling but the program ended with negative results. The third magnetic feature was not drilled during the program and is currently unexplained. This anomaly corresponds to Goldstakes’ “L.21+00E Target”. Several drill logs for drilling in 1984 into the F Zone also reported 2 foot intersections of a peculiar dyke of unknown rock described in the logs as “green” and “calcareous”. Intersections of the dyke are reported in 4 adjacent holes: 84-30, 84-57, 84-8 and 84-59.

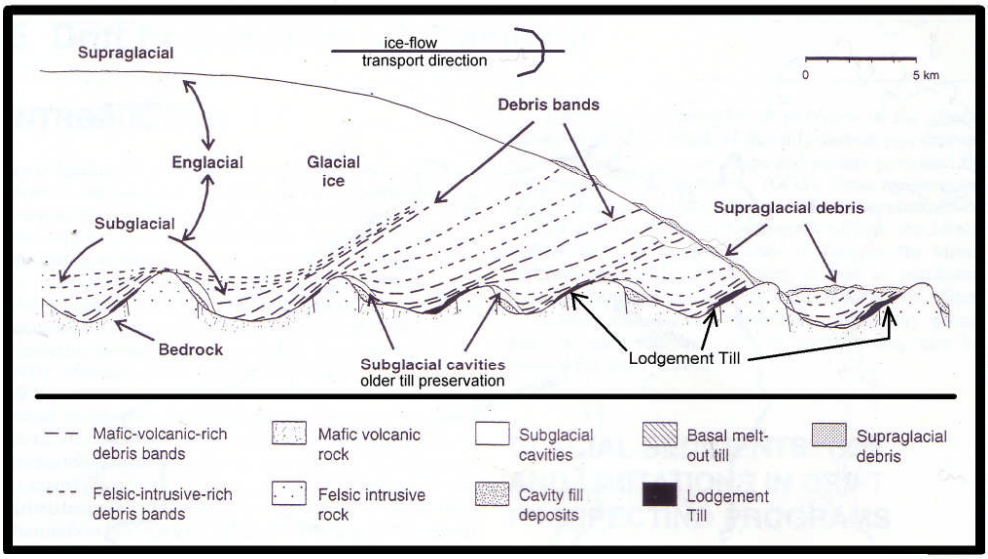


Modified from:
Veillette, J.J. 1985
Former southwesterly ice flows in the Abitibi-Timiskaming region: implications for the configuration of the late Wisconsian ice sheet. Can. J. Earth Sci. 23, 1724-1741 (1986), pg.1727

Figure 5.
REGIONAL ICE-FLOW DIRECTIONS and AGE
EASTERN ONTARIO- WESTERN QUEBEC

McGARRY TWP. PROPERTY, ONTARIO
GOLDSTAKE EXPLORATIONS INC.

Map by: RJD



Idealized section showing glacial flow, debris transport and formation of lodgement till on bedrock surface.

Modified From: Ontario Geological Survey (1997) Miscellaneous Report 167, pg. 28.

Lodgement till.

Photo by: C. Jacques, 2006

Lodgement till on bedrock

Photo by: C. Jacques, 2006

Figure 6.

In 1985, Lee Geo-Indicators and McGarry Gold collected an additional 114 till samples in various sections of the current property. Kimberlite minerals were identified in 15 samples including the discovery of a purple garnet in a kimberlitic rock claste. Despite the results, no follow-up diamond exploration was reported for almost a decade later.

In 1994, A. Salo reported intersecting two, narrow lamprophyre dykes while drilling on claim block L-1225087 which is surrounded by the current McGarry Property.

In 1995, on behalf of Transpacific Resources Inc., E.A. Gallo discovered 6 grains of pyrope garnet and 2 grains of chrome diopside in 4 basal till samples collected on the McGarry Property. The garnets were analyzed and confirmed by an electron microprobe. The compositions of most were found to be Ca-pyrope garnets typical of lherzolite trends and commonly referred to as “G9” garnets (Dawson and Stephens 1975). One garnet was found to be a sub-calcic pyrope associated with harzburgite paragenesis and akin to “G10” pyrope garnets frequently associated with diamond deposits. Two potential diamonds were also reported in the samples but no mention is made if the diamonds were verified beyond visual identification. Mr. Gallo’s work provides the first confirmation of kimberlite minerals and the first indications of kimberlite minerals on the McGarry Property with chemistries known to coexist with diamond in kimberlite.

In 2004, on behalf of Goldstake Explorations Inc., Mr. Gallo drilled two circular magnetic features termed: Target A and Target B. The magnetic features are located close to the lamprophyre dykes discovered by Mr. Salo in 1994 and several recent discoveries of lamprophyres dykes in outcrop. Prior to drilling in 2005, the targets were located with small, detailed ground magnetometer surveys. Each target was tested by a single, short vertical drill hole but failed to intersect kimberlite. Mr. Gallo reports the magnetic features are caused by “magnetic syenite”.

In the summer of 2006, Goldstake re-located the kimberlite mineral anomalies discovered in 1984 by Dr. Lee. The program was supervised by Claude Jacquese` and the results of this work are included in this report. In addition to heavy mineral surveys, in the course of diamond exploration, Goldstake has completed line cutting and several small ground magnetic surveys over various sections of the Stump Pond area. This work has mostly focused on relocating magnetic features outlined by surveys completed in 1984 by Sagax Ltd. Two recent magnetometer surveys by Goldstake in the Stump Pond area were completed by Larder Geophysics Ltd. and Lambert Geoscience Ltee. In March of 2007, H. Ferderber and Mr. Jacques completed a third ground magnetometer survey which focused on covering the extent of Stump Pond and Junction Pond. This survey depicts several discrete low-magnetic features under Junction Pond. The magnetic features are situated ice-ice with respect to the path of the first ice-advance from the olivine grains and kimberlite minerals found in the Stump Pond area.

II. SURVEY PROCEDURE AND RESULTS

Survey Logistics

The heavy mineral survey has been conducted in several stages between July 2006 and June 2007. During this time, Goldstake Explorations Inc. has collected 44 heavy mineral samples from the McGarry Property.

Figure 2 shows the area of the survey. Forty three heavy mineral concentrates were collected on CLM298. One sample was collected on claim 1225087.

Sample locations and results of the heavy mineral survey are plotted at a scale of 1:2,500 on topographic maps included with this report. UTM coordinates for the sample sites are included on sample description sheets appended to this report and in Table 1. This report also includes an interpretation of results depicted on a compilation map at a scale of 1: 250.

The chemistries of 215 kimberlite mineral grains have been determined by electron microprobe instruments at two individual facilities. Grain analyses for 171 mineral grains selected from till samples sent for heavy mineral processing and kimberlite mineral evaluation by C.F. Minerals Inc. are presented in Table 5. Electron microprobe analyses for 44 kimberlite minerals selected by the author were analyzed by R.L. Barnett Geological Services in Lambeth, Ontario are summarized in Table 6. Certificates are appended to this report.

Sample Logistics and Heavy Mineral Processing

Sample logistics including sample size and material sampled are summarized in Table 2. Most till samples and creek gravel samples collected during this program consisted of approximately 15 - 20 kg of unsorted material. Most of the samples were collected using a shovel and stored in 6 gallon pails.

During the initial heavy mineral sampling program by Goldstake, 10 unsorted -1 tonne till samples and smaller, 20 kg duplicate test samples were collected during the program under supervision by Claude Jacques. Samples were taken in trenches dug by a tracked high-hoe excavator at two locations south of the railway tracks on CLM298. The excavator was used to remove layers of overburden and younger till and exposed patches of a thin layer of rust coloured consolidated lodgement till plastered on the bedrock surface (Figure 6). The rusty consolidated till is believed to be the oldest till related to the first ice-advance which traveled towards the southwest across the property. Most till samples collected during this survey were derived from the rust-coloured consolidated till unit which sits directly on bedrock. In many places on the property, this unit has been completely removed by younger glaciations and post glacial events thus preventing systematic/uniform spacing of sample sites. Younger till was sampled at several sites and is unconsolidated, grey to brown in colour and easy to distinguish from the oldest till layer.

Samples processed by the author were washed then screened into fractions ranging: -5 to 2 mm, -2 to 1 mm, -1 mm. Heavy mineral concentrates were derived from the -5 to 2 mm and -2 to 1 mm fractions using manual operated jigs. These concentrates contain minerals and rock fragments with specific gravities (sp.g.) ranging +2.7 (g/cc).

Heavy mineral concentrates also were derived from each of the -1 mm fractions a motorized cable jig containing a 0.18 mm screen which removed fine silts form the concentrates. Cable jig concentrates were refined to a specific gravity of +3 by density liquid separation using Lithium Metatungstate. These concentrates were further divided into magnetic and non-magnetic fractions a tray type magnetic separator. Magnetic fractions were labeled accordly, weighed and stored for further analyses. The non-magnetic heavy mineral concentrates ranging -1 to 0.18 mm were examined for kimberlite minerals using a binocular microscope. Potential kimberlite minerals were counted, removed and stored in labeled glass vials. Kimberlite mineral grains submitted for analysis by electron microprobe were selected from the -1 to 0.18 mm non-magnetic concentrates.

Survey Results

Kimberlite mineral counts for each sample are summarized in Table's 3 and 4. An electron microprobe has been used to verify kimberlite minerals in samples: 1A, 1A-1, 1A-2, 1B, 1C, 1D, 2A and 2B. Microprobe analyses by C.F Minerals and R.L. Barnett are summarized in Table's 5 and 6.

Potential kimberlite indicator minerals were identified in various quantities in most of the heavy mineral concentrates. The distribution of kimberlite minerals is shown in Figure 7. and on a topographic map accompanying this report. The persistent concentration of kimberlite minerals throughout the survey area is due in part to potential local source(s) and certain influence from distal kimberlite sources of the Kirkland Lake Field situated up-ice from the property with respect to recent glacial advances.

Kimberlite minerals identified by this survey include: pyrope and eclogite garnet, chrome diopside, olivine, picroilmenite and chromite (Figure 8). In standard 20 kg samples, kimberlite minerals occur throughout the survey area in concentrations ranging from a few grains to hundreds of grains per sample. In concentrates derived from 1 tonne bulk till samples, kimberlite mineral counts range 5 to 20 grains per sample. Compared to the smaller samples, the kimberlite mineral concentrations are slightly elevated in most bulk samples due to the sample size. The best concentrations of kimberlite minerals were found in bulk samples: 2A (+376 grains), 1D (53 grains) and 2B (56 grains) and, in 20 kg samples: 2AS (101 grains), 2D (109 grains), 2E (73 grains) and SSP (63 grains).

The kimberlite minerals found in the Stump Pond area display good preservation of physical features such as: crystal shapes and magmatic surface features and provide potential evidence indicating the minerals are derived from a local kimberlite source. The physical features are best preserved in bulk samples: 2A (+376 grains), 2B (56 grains) and 1D (53 grains) and, in 20 kg samples: 2C (11 grains), 2D (109 grains), 2E (73 grains), SSP (63 grains), C2-3 (26 grains), C2-5 (11 grains) C2-9 (22 grains), WP-1 (7 grains), WP-4 (7 grains) and WP-6 (21 grains). In the Instant Pond area, similar physical features are displayed to a lesser extent by the kimberlite minerals in samples: 175 creek (12 grains) and 178 (11 grains).

Table 2.
Sample Logistics
Heavy Mineral Survey
McGarry Property, McGarry Twp., Ontario
Goldstake Explorations Inc.

Sample Number	UTM Coordinates	Sample Size	Sample Type	Colour	Comment
1A bulk	604645mE, 5334525mN	1 tonne	Lower till	Brownish-red	1A SITE
1A-1	604600mE, 5334515mN	20 kg	Lower till	Brownish-red	1A SITE
1A-2	604650mE, 5334490mN	20 kg	Lower till	Brownish-red	1A SITE
1B bulk	604675mE, 5334595mN	1 tonne	Upper Till	Grey	1A SITE
1C bulk	604585mE, 5334640mN	1 tonne	Upper Till		1A SITE
1D bulk	604520mE, 5334575mN	1 tonne	Lower till	Brownish-red	1A SITE
1D-1	604525mE, 5334520mN	20 kg	Lower till	Brownish-red	1A SITE
2A bulk	604203mE, 5334395mN	1 tonne	Lower till	Brownish-red	2A SITE
PAIL bulk	604203mE, 5334395mN	1 tonne	Lower till	Brownish-red	2A SITE
2AR	604203mE, 5334395mN	20 kg	Lower till	Brownish-red	Resample 2A bulk
2AS	604203mE, 5334385mN	20 kg	Lower till	Brownish-red	10 m south of 2A
2B bulk	604195mE, 5334400mN	1 tonne	Lower till	Brownish-red	2A SITE
2C	604185mE, 5334445mN	20 kg	Lower till	Brownish-red	2A SITE
2D	604195mE, 5334440mN	20 kg	Lower till	Brownish-red	2A SITE
2E	604145mE, 5334430mN	20 kg	Lower till	Brownish-red	2A SITE
SSP	604333mE, 5334889mN	20 kg	Lower till	Brownish-red	SSP SITE
BD creek	604915mE, 5335475mN	20 kg	Alluvial	Brown	
EBD	604910mE, 5335430mN	20 kg	Upper Till	Grey	
173	604604mE, 5335495mN	20 kg	Upper Till?	Brownish-red	
174	603707mE, 5335788mN	20 kg	Lower till	Brownish-red	
175creek	603701mE, 5335805mN	20 kg	Alluvial	Brown	
176	604457mE, 5335495mN	20 kg	Upper Till	Grey	
178	603855mE, 5335185mN	20 kg	Lower till	Brownish-red	Small Pond
C2-1	603985mE 5334425mN	20 kg	Lower till?	Brownish-red	
C2-2	603902mE 5334420mN	20 kg	Lower till?	Brownish-red	
C2-3	604333mE, 5334889mN	20 kg	Lower till	Brownish-red	Resample SSP
C2-4 creek	604464mE, 5335487mN	20 kg	Alluvial	Brown	
C2-5	604226mE 5334687mN	20 kg	Lower till	Brownish-red	
C2-6	604300mE. 5334820mN	20 kg	Lower till	Brownish-red	Micaeous rx. frags.
C2-7 creek	603697mE, 5335800mN	20 kg	Alluvial	Brown	Tarnished cpy
C2-8	603809mE, 5335310mN	20 kg	Lower till	Brownish-red	Small Pond
C2-9	604297mE, 5334701mN	20 kg	Lower till	Brownish-red	Kimberlite? rx. frag
C2-10	603594mE, 5335019mN	20 kg	Upper Till	Brownish-red	OC South of DDH
C2-11	603798mE, 5334779mN	20 kg	Upper Till	Brownish-red	
WP-1	604436mE, 5334928mN	20 kg	Lower till	Brownish-red	
WP-2	604761mE, 5335070mN	20 kg	Outwash?	Grey	Possible grey till
WP-3	604900mE, 5335080mN	20 kg	Outwash?	Grey	Clay and boulders
WP-4	604609mE, 5334890mN	20 kg	Lower till	Brownish-red	Mica
WP-5	604373mE, 5334959mN	20 kg	Lower till	Brownish-red	
WP-6	604521mE, 5334979mN	20 kg	Outwash?	Grey	Sand
WP-7	604922mE, 5335713mN	20 kg	Lower till	Brownish-red	
WP-8	605174mE, 5335413mN	20 kg	Lower till?	Brownish-red	
WP-9	604533mE, 5335556mN	20 kg	Upper Till	Grey	
WP-10	605363mE, 5336778mN	20 kg	Lower till?	Brownish-red	Pyrite in OC

Table 3: Summary of Heavy Mineral Concentrate Examination
McGarry Twp., Ontario
Goldstake Explorations Inc.
Mineral Counts: RJD (C.F. Mineral Research Ltd., 2006) **UTM Zone 17**

Sample Number	Pyrope	Cr Diopside	Chromite/ Mg ilmenite	Olivine	Eclogite Garnet	Eclogite Clinopyroxene	Total KIM	Pyrite	Chalcopyrite	UTM Coordinates	Comment
1A bulk	0 (1)	0 (0)	0 (12)	0 (4)	0 (2)	0 (2)	21	0	0	604645mE, 5334525mN	1A SITE
1A-1	0 (8)	0 (0)	6 (2)	3 (8)	0 (0)	0 (0)	27	0	0	604600mE, 5334515mN	1A SITE
1A-2	0 (10)	0 (1)	0 (2)	0 (3)	0 (2)	0 (2)	20	3	0	604650mE, 5334490mN	1A SITE
1B bulk	0 (0)	0 (1)	0 (2)	0 (0)	0 (1)	0 (1)	5	3	1	604675mE, 5334595mN	1A SITE
1C bulk	4	3	3	3	0	0	13	+10	9	604585mE, 5334640mN	1A SITE
1D bulk	0 (6)	1 (2)	13 (10)	10 (9)	0 (2)	0 (0)	53	+5	0	604520mE, 5334575mN	1A SITE
1D-1	0 (2)	0 (0)	0 (6)	0 (1)	0 (0)	0 (0)	9	0	0	604525mE, 5334520mN	1A SITE
2A bulk	38	9	175	144	5	5	376	+15	5	604203mE, 5334395mN	2A SITE
PAIL bulk	1	1	20	6	0	0	28	+10	0	604203mE, 5334395mN	2A SITE
2AR	5	1	5	6	0	0	17	3	1	604203mE, 5334395mN	Resample 2A bulk
2AS	4	3	44	50	0	0	101	+50	0	604203mE, 5334385mN	10 m south of 2A
2B bulk	0 (13)	0 (0)	0 (19)	1 (23)	0 (0)	0 (0)	56	0	0	604195mE, 5334400mN	2A SITE
2C	2	0	8	0	1	0	11	4	0	604185mE, 5334445mN	2A SITE
2D	7	2	50	50	0	0	109	+10	0	604195mE, 5334440mN	2A SITE
2E	7	3	55	8	0	0	73	+10	0	604145mE, 5334430mN	2A SITE
SSP	3	2	8	50	0	0	63	+50	0	604333mE, 5334889mN	SSP SITE
BD creek	0	0	4	0	0	0	4	0	0	604915mE, 5335475mN	
EBD	0	0	4	4	0	0	4	0	0	604910mE, 5335430mN	Eroded olivine
173	0	0	0	4	0	0	4	+20	0	604604mE, 5335495mN	Eroded olivine
174	0	0	5	4	0	0	9	+50	1	603707mE, 5335788mN	
175creek	1	0	7	4	1	0	12	10	14	603701mE, 5335805mN	Tarnished cpy
176	0	1	0	0	0	0	1	10	5	604457mE, 5335495mN	Tarnished cpy
178	2	0	6	3	0	0	11	+10	0	603855mE, 5335185mN	Small Pond
C2-1	0	0	0	0	0	0	0	0	0	603985mE 5334425mN	
C2-2	0	0	0	0	0	0	0	0	0	603902mE 5334420mN	
C2-3	4	1	11	8	1	1	26	3	0	604333mE, 5334889mN	Resample SSP
C2-4 creek	0	0	0	0	1	1	2	5	0	604464mE, 5335487mN	
C2-5	3	1	5	2	0	0	11	3	0	604226mE 5334687mN	
C2-6	1	0	0	1	0	0	2	+10	0	604300mE. 5334820mN	Micaeous rx. frags.
C2-7 creek	0	0	1	0	0	5	6	+10	3	603697mE, 5335800mN	Tarnished cpy
C2-8	1	1	5	1	0	0	8	1	0	603809mE, 5335310mN	Small Pond
C2-9	6	1	9	5	1	0	22	3	0	604297mE, 5334701mN	Kimberlite? rx. frag
C2-10	0	0	0	0	0	0	0	3	1	603594mE, 5335019mN	1 gold grain 0.2 mm
C2-11	0	0	1	0	0	0	1	6	0	603798mE, 5334779mN	

Table 4.
Heavy Mineral Samples
McGarry Property
Goldstake Explorations Inc.
Junction Pond Area: June 20, 2007

Sample No.	NTS	pyrope	Cr Diop	Cromite Mg-Ilm	Olivine	Ecl. Grnt.	Pyrite	Cpy	Zn	Other
WP-1	604436E 5334928N			3	4	2?	Tr.-1%			Hematite + quartz grains. 0.8 mm olivine with shagreen, local source.
WP-2	604761E 5335070N			1			Tr.			6 hematite + calcite + quartz grains from very local source.
WP-3	604900E 5335080N						3			Small heavy mineral concentrate. No grains picked.
WP-4	604609E 5334890N	1		6			Tr.			3 large biotite books, 1 grain 1 cm diameter. Lilac pyrope fragment. 1 quartz-Fe carb. with 30% pyrite rock fragment in +1 cm fraction, local source.
WP-5	604373E 5334959N	1		3		1?	Tr.			1 purple pyrope pellet, 0.5 mm diameter. 1 biotite book, 0.5 mm diameter. 1 chromite/ Mg ilmenite pellet with shagreen
WP-6	604521E 5334979N		1	10	5?	3?	1%		1	Abundant pyrite cubes and other pyrite crystals. Trace hematite. 1 large cloudy Cr diopside pellet, 0.9 mm diameter. Yellow & clear potential olivine. Potential chromite/ Mg ilmenite all fragments, some could be rutile.
WP-7	604922E 5335713N			4	2?	1?	1%	1		Fresh magnetite cubes from local source. Abundant pyrite cubes and eroded/ rounded-tarnished grains
WP-8	605174E 5335413N			2		1?	Tr.			Small concentrate. Many rusty pyrite.
WP-9	604533E 5335556N			3		1?	1-2%			Abundant brown-tarnished pyrite cubes and various crystals + black cubes from local source. Cr diopside small fragment, 0.3 mm. Possible black rutile.
WP-10	605363E 5336778N			4	1?	2?	1%			Abundant pyrite cubes, brown-tarnished cubes, several rock fragments with pyrite cubes. Pyrite in outcrop at sample site. Numerous white quartz grains in +1 cm fraction.
SSP	604333E 5334889N									Olivine bearing kimberlite mineral anomaly.
Stria	604474E 5334964N									1^{st} ice event striations orientated 212^{0} and 3^{rd} ice event striations orientated 170^{0} preserved on stripped outcrop.

? Microprobe Analyses Recommended

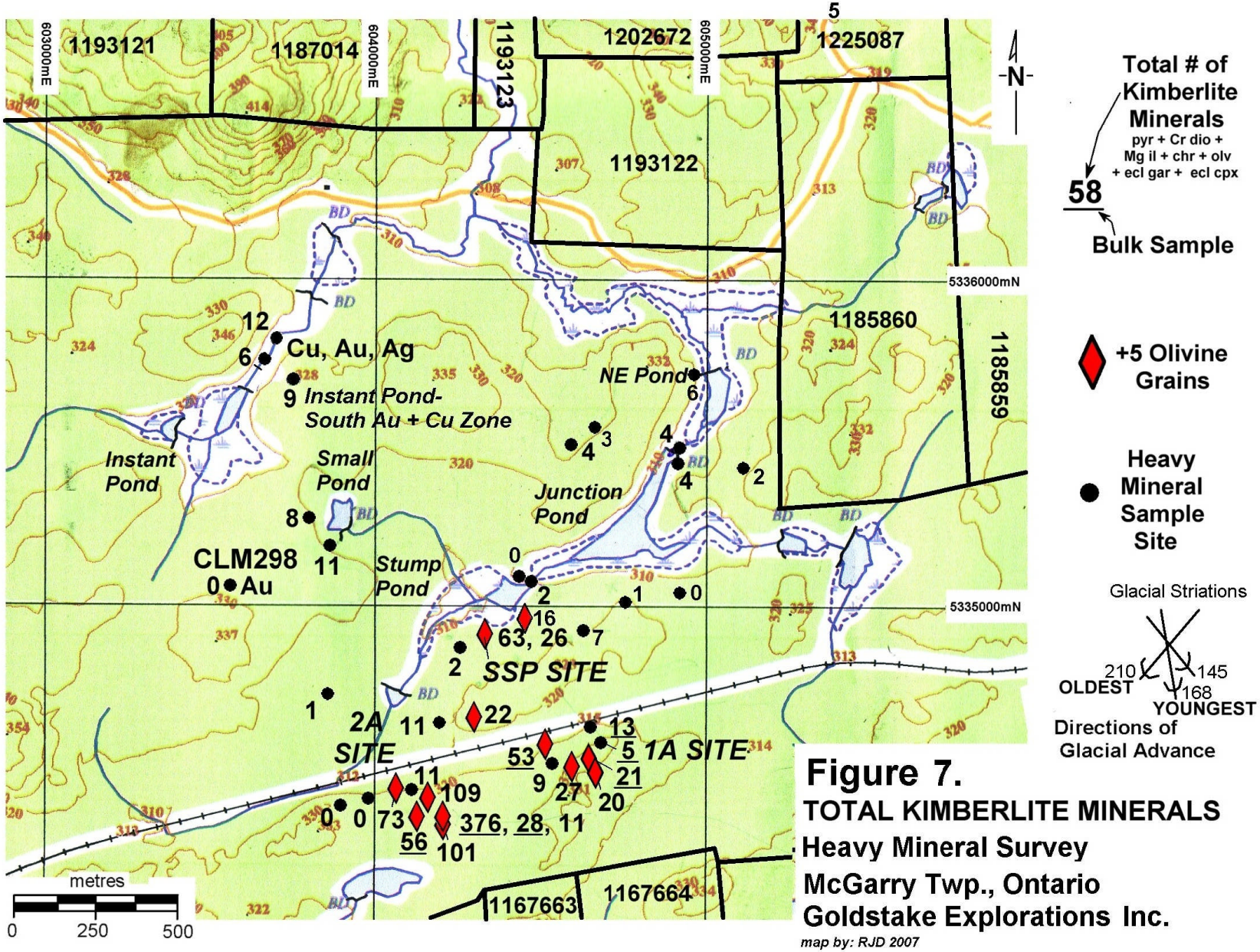
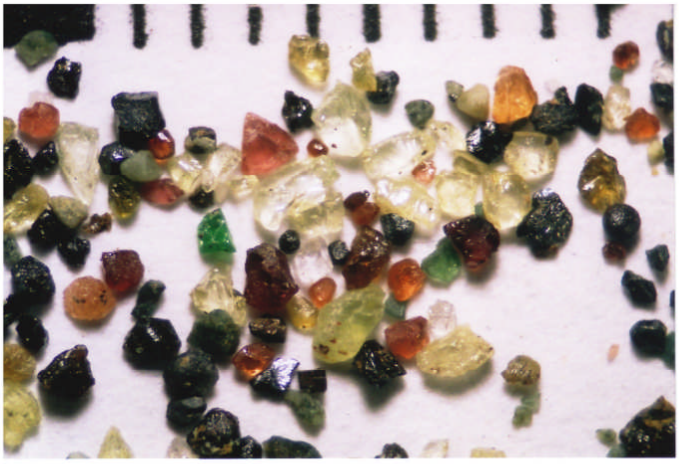
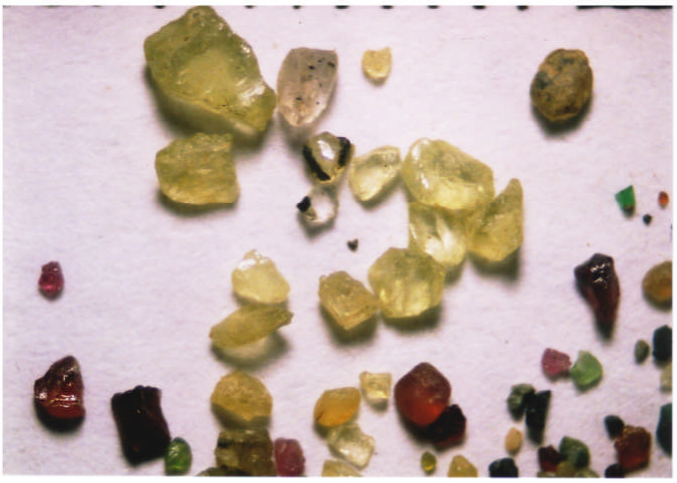


Figure 7.
TOTAL KIMBERLITE MINERALS
Heavy Mineral Survey
McGarry Twp., Ontario
Goldstake Explorations Inc.
map by: RJD 2007



2A SITE
KIMBERLITE MINERALS
Top scale 1cm

SSP SITE
KIMBERLITE MINERALS
Top scale 1cm



2A SITE
FOSTERITE OLIVINE
Top scale 1cm

note kimberlite affixed
to clear grains, top central

Figure 8.

STUMP POND
KIMBERLITE MINERAL ANOMALY
McGARRY PROPERTY
McGARRY TWP., Ontario
GOLDSTAKE EXPLORATIONS INC.

photos by: RJD 2006

Table 5. : Electron Microprobe Analyses
Stump Pond Kimberlite Mineral Anomaly
McGarry Property, McGarry Twp., Ontario
Goldstake Explorations Inc.
Analyses by: C.F. Mineral Research Ltd., Kelowna, B.C. (2006)

Name	Fraction	Mount	Cell	Grain	SA	CFM	DI	M	C	T(Zn)e	*	SiO2	TiO2	Al2O3	V2O3	Cr2O3	Fe2O3	FeO	MgO	CaO	MnO	NiO	ZnO	Nb2O5	Na2O	Anal Na2O	K2O	Total
1-D	-16+60H	5140	3	301		OLV-FOI	-					40.89	0.03	0.04		0.05		9.22	48.8	0.07	0.12	0.39			0.02		0	99.63
1-D	-16+60H	5140	3	213		OLV-FOI	DI					41.6	0.01	0.04		0.04		6.93	50.47	0.03	0.12	0.37			0.02		0	99.62
1-D	-16+60H	5140	3	302		OLV-FOI	DI					41.47	0.01	0.02		0.02		7.52	50.48	0.07	0.18	0.34			0.02		0	100.11
1-D	-16+60H	5140	3	304		OLV-FOI	DI					41.55	0	0		0.04		6.75	50.68	0.06	0.14	0.39			0.02		0	99.62
1-D	-16+60H	5140	3	211		OLV-FOI	DI*					41.44	0.02	0		0		5.89	51.95	0.02	0.1	0.34			0		0	99.76
1-D	-16+60H	5140	3	212		OLV-FOI	DI*					41.39	0.04	0		0.05		7.25	50.27	0.02	0.1	0.31			0.01		0.01	99.45
1-D	-16+60H	5140	3	303		OLV-FOI	DI*					41.33	0	0.01		0		6.24	51.01	0.04	0.12	0.42			0.01		0	99.18
1-D	-16+60H	5140	3	309		OLV-FOI	DI*					41.41	0	0.03		0.07		7.85	50.09	0.07	0.1	0.28			0		0	99.89
1-D	-16+60H	5140	3	306		OLV-FOI	DIO					40.97	0.01	0		0.07		7.82	49.98	0.09	0.12	0.34			0.01		0.02	99.43
1-D	-16+60H	5140	3	401		PIL							49.18	0.22		0.43	12.48	26.48	9.97	0.01	0.33		0.03	0.18				99.3
1-D	-16+60H	5140	3	402		PIL							51.13	0.52		0.15	9.88	26.01	11.3	0.01	0.27		0.02	0.11				99.39
1-D	-16+60H	5140	3	403		PIL							48.43	0.4		0.15	13.3	27.96	8.79	0.01	0.27		0.01	0.08				99.41
1-D	-16+60H	5140	3	404		PIL							50.89	0.51		0.15	10.37	25.78	11.3	0.01	0.26		0.07	0.02				99.36
1-D	-16+60H	5140	3	501		PIL							47.78	0.37		0.77	13.93	27.51	8.87	0.02	0.25		0.04	0.04				99.59
1-D	-16+60H	5140	3	503		PIL							49.63	0.35		0.58	12.5	24.11	11.63	0.02	0.32		0.02	0.19				99.34
1-D	-16+60H	5140	3	506		PIL							49.59	0.19		0.37	11.31	27.73	9.47	0.03	0.29		0.1	0.14				99.22
1-D	-16+60H	5140	3	507		PIL							49.58	0.74		0.07	11.54	26.96	10.05	0.02	0.27		0	0				99.23
1-D	-16+60H	5140	4	101		PIL							52.78	0.59		0.54	7.78	24.14	13.3	0.03	0.29		0.03	0.05				99.53
1-D	-16+60H	5140	4	103		PIL							52.2	0.6		0.2	9.42	22.84	13.63	0.06	0.32		0.02	0.05				99.33
1-D	-16+60H	5140	3	206	CP	CP2	-					53.92	0.31	0.94		0.91		5.26	16.69	20.57	0.13	0.07			0.54		0	99.35
1-D	-16+60H	5140	3	205	CP	CP5	-					54.49	0.06	1.07		0.68		2.7	16.24	23.18	0.08	0.03			0.8		0	99.33
1-D	-16+60H	5140	3	203	CP	CP5	DIO					54.61	0.15	1.63		2.45		1.9	15	21.06	0.06	0.03			2.23		0.01	99.14
1-D	-16+60H	5140	3	204	CP	CPX	-					53.07	0.32	1.12		1.18		4.94	16.5	20.99	0.12	0.09			0.59		0.01	98.91
1-D	-16+60H	5140	3	107	P	G 3						41.01	0.05	22.44		2.02		13.07	16.71	4.45	0.56	0			0.02		0.01	100.33
1-D	-16+60H	5140	3	105	P	G 9						41.8	0.98	20.29		3.16		7.96	20.09	5.31	0.32	0			0.11		0	100.01
1-D	-16+60H	5140	3	109	P	G 9						41.85	1.03	20.17		3.1		7.89	20.16	5.35	0.3	0			0.05		0	99.91
1-D	-16+60H	5140	3	110	P	G 9						42.04	0.06	21.2		4.15		7.78	19.42	5.52	0.46	0.02			0.01		0	100.68
1-D	-16+60H	5140	3	108	P	G 9-1						42.11	0.19	21.62		3.33		8.28	19.69	4.9	0.45	0			0.04		0	100.61
1-D	-16+60H	5140	3	202	P	G 9-1						42.04	0.21	20.61		4.23		7.81	19.6	5.07	0.43	0			0.06		0	100.05
1-D	-16+60H	5140	3	201	P	G11-1						40.77	0.82	17.04		7.54		8.97	17.89	5.77	0.35	0			0.08		0	99.24
1-D	-16+60H	5140	4	402		OLV-FOI	DI					41.46	0.01	0		0		5.92	51.49	0.01	0.09	0.54			0		0	99.51
1-D.1	-16+60H	5140	4	306		PIL							48.95	0.29		0.82	11.64	27.94	9.16	0	0.33		0.09	0.02				99.25
1-D.1	-16+60H	5140	4	401		PIL							51.87	0.56		0.18	8.67	25.82	11.79	0.04	0.28		0.02	0.1				99.33
1-D.1	-16+60H	5140	4	403		PIL							50.52	0.41		0.37	10.81	25.38	11.33	0.04	0.31		0.05	0.14				99.34
1-D.1	-16+60H	5140	4	404		PIL							48.14	0.15		0.54	14.22	26.13	9.68	0.02	0.26		0	0.29				99.43
1-D.1	-16+60H	5140	4	406		PIL							50.65	0.35		0.39	10.43	25.28	11.45	0.02	0.28		0	0.13				98.98
1-D.1	-16+60H	5140	4	407		PIL							46.76	0.13		0.67	15.43	27.63	8.16	0	0.28		0	0.25				99.32
1-D.1	-16+60H	5140	4	304	P	G 9-1						41.87	0.86	21.53		2.36		7.05	21.11	4.66	0.29	0			0.08		0.01	99.82
1-D.1	-16+60H	5140	4	305	P	G11-1						41.78	0.26	19.77		5.65		6.02	20.64	4.91	0.37	0.01			0.01		0.02	99.43
2-B	-16+60H	5140	5	406		CR	-	L	L	678		0	0.14	17.97	0.18	50.04	3.29	13.31	13.73	0	0.27	0.07	0.21					99.19
2-B	-16+60H	5140	5	409		CR	-	U	U	633		0.02	0.29	11.5	0.25	46.31	12.4	18.5	9.54	0.01	0.59	0.13	0.25					99.77
2-B	-16+60H	5140	5	501		CR	-	L	L	1114	*	0	0.27	11.58	0.18	52.29	6.59	18.25	9.96	0	0.33	0.11	0.06					99.62
2-B	-16+60H	5140	6	201		CR	-	K	L	698		0.01	0.03	11.51	0.23	57.26	2.81	14.13	12.39	0	0.28	0.05	0.19					98.89
2-B	-16+60H	5140	6	202		CR	-	L	L	676		0.02	0.04	16.91	0.19	47.48	7.3	15.1	12.54	0	0.26	0.07	0.21					100.12
2-B	-16+60H	5140	6	208		CR	-	L	K	1844		0	0.38	7.62	0.17	50.19	12.81	19.32	8.87	0	0.41	0.14	0.02					99.93
2-B	-16+60H	5140	6	301		CR	-	L	L	805		0	0.25	12.33	0.13	52.41	5.75	17.64	10.37	0.01	0.36	0.09	0.13					99.47
2-B	-16+60H	5140	6	401		CR	-	G	K	844		0	0.27	8.43	0.15	52.43	9.92	18.37	9.48	0	0.4	0.11	0.11					99.68
2-B	-16+60H	5140	5	307		CR	TI	K	K	876		0.01	1.46	3.98	0.25	59.74	4.51	20.25	8.43	0	0.42	0.02	0.1					99.17
2-B	-16+60H	5140	4	608		OLV	-					40.69	0.01	0.04		0.04		9.94	47.82	0.11	0.09	0.36			0.02		0	99.12
2-B	-16+60H	5140	5	105		OLV	-					40.27	0.05	0		0.02		12.31	46.36	0.09	0.12	0.28			0.04		0	99.54
2-B	-16+60H	5140	5	202		OLV	-					40.54	0.03	0.01		0.06		10.67	47.38	0.09	0.12	0.33			0.01		0	99.24
2-B	-16+60H	5140	5	101		OLV-FOI	-					41.3	0.01	0		0.05		8.3	49.59	0.07	0.14	0.39			0.02		0.01	99.88
2-B	-16+60H	5140	5	103		OLV-FOI	-					41.29	0.05	0.04		0.07		8.35	49.53	0.15	0.13	0.36			0.04		0	100.01
2-B	-16+60H	5140	5	107		OLV-FOI	-					40.97	0.02	0		0		8.82	49.55	0.02	0.17	0.42			0		0.01	99.98
2-B	-16+60H	5140	5	204		OLV-FOI	-					41.39	0.02	0.01		0.02		8.21	49.23	0.09	0.12	0.32			0.02		0.01	99.43
2-B	-16+60H	5140	5	208		OLV-FOI	-					41.02	0	0		0		7.67	50.26	0.02	0.13	0.39			0		0	99.5
2-B	-16+60H	5140	4	602		OLV-FOI	DI					40.97	0.05	0.05		0.05		7.22	50.13	0.05	0.11	0.35			0.01		0	98.99
2-B	-16+60H	5140	4	603		OLV-FOI	DI					41.83	0	0.01		0		6.16	50.87	0.02	0.08	0.36			0		0.01	99.33
2-B	-16+60H	5140	5	102		OLV-FOI	DI					41.05	0.05	0.01		0.03		7.32	50.26	0.06	0.12	0.37			0.01		0	99.28
2-B	-16+60H	5140	5	104		OLV-FOI	DI					41.86	0	0		0		6.26	51.63	0.06	0.09	0.34			0		0	100.24
2-B	-16+60H	5140	5	201		OLV-FOI	DI					41.15	0.01	0.01		0.01		6.89	50.96	0.02	0.12	0.35			0		0	99.51
2-B	-16+60H	5140	5	206		OLV-FOI	DI					41.3	0.02	0.01		0.02		7.51	50.37	0.04	0.14	0.35			0.01		0	99.77
2-B	-16+60H	5140	4	605		OLV-FOI	DI*					41.66	0.06	0.04		0.06		6.74	50.91	0.07	0.08	0.36			0.02		0	100
2-B	-16+60H	5140	4	606		OLV-FOI	DI*					41.59	0	0.02		0		6.62	51.09	0.02	0.08	0.37			0		0	99.78
2-B	-16+60H	5140	4	607		OLV-FOI	DI*					41.69	0.02	0.01		0		6.82	50.73	0.01	0.09	0.33			0		0	99.71
2-B	-16+60H	5140	5	106		OLV-FOI	DI*					41.42	0.03	0		0.09		6.41	51.04	0.05	0.1	0.27			0.01		0	99.42
2-B	-16+60H	5140	5	205		OLV-FOI	DI*					41.34	0.02	0.02		0.07		7.35	50.33	0.09	0.1	0.35			0.03		0	99.7
2-B	-16+60H	5140	4	604		OLV-FOI	DIO					41.49	0.01	0.01		0		7.41	50.27	0.02	0.13	0.42			0		0	99.76
2-B	-16+60H	5140	5	203		OLV-FOI	DIO					41.15	0.01	0.01		0.01		7.83	49.68	0.08	0.1	0.39			0		0.01	99.25
2-B	-16+60H	5140	5	207		OLV-FOI	DIO					41.18	0.03	0.04		0.08		8.13	49.83	0.13	0.12	0.36			0.01		0.01	99.9
2-B	-16+60H	5140	5	301		OLV-FOI	DIO					41.2	0.02	0.04		0.06		7.89	50.07	0.11	0.13	0.41			0.02		0.01	99.95
2-B	-16+60H	5140	5	209		OP5	-					55.89	0.17	1.49		0.42		9.55	30.26	2.14	0.26	0.05			0.03		0	100.25
2-B	-16+60H	5140	5	302		PIL							51.66	0.47		0.1	9.59	25.93	11.56	0.03	0.29		0	0.08				99.71
2-B	-16+60H	5140	5	303		PIL							50.37	0.59		0.09	11.13	26.33	10.73	0.01	0.29		0.01	0.04				99.58
2-B	-16+60H	5140	5	304		PIL							50.24	0.47		0.05	11.4	26.81	10.33	0.03	0.3		0.11	0.08				99.82
2-B	-16+60H	5140	5	305		PIL							52.4	0.56		0.29	8.31	25.08	12.52	0.02	0.26		0	0.07				99.51
2-B	-16+60H	5140	5	306		PIL							47.79	0.19		0.54	15.01	25.22	10.04	0.04	0.25		0.03	0.26				99.35
2-B	-16+60H	5140	5	402		PIL							51.15	0.51		0.03	9.64	25.67	11.49	0.01	0.22		0	0.07				98.8
2-B	-16+60H	5140	5	404		PIL							46.35	0.1		0.73	16.01	26.76	8.45	0.01	0.27		0.06	0.28				99.02
2-B	-16+60H	5140	5	405		PIL							50.56	0.5		0.26	11.54	25.1	11.52	0.03	0.3		0.03	0.1				99.92
2-B	-16+60H	5140	5	407		PIL							49.96	0.46		0.09	11.42	27.67	9.73	0.02	0.29		0	0.09				99.71
2-B	-16+60H	5140	5	502		PIL							48.2	0.13		0.46	13.46	28.41	8.4	0.02	0.26		0.06	0.18				99.58
2-B	-16+60H	5140	4	512	E	G 3	HPM					41.96	0.87	22.25		0.79		10.1	18.99	4.52	0.36	0.03				0.094	0	99.97
2-B	-16+60H	5140	4	503	P	G 9						42.11	0	22.45		2.4		7.99	19.09	5.35	0.57	0			0.01		0.01	99.97
2-B	-16+60H	5140	4	501	P	G 9-1						42.05	0.35	20.3		4.38		6.7	20.25	5.38	0.29	0.02			0.03		0.01	99.76
2-B	-16+60H	5140	4	505	P	G 9-1						41.88	0.18	21.76		3.45		7.35	20.07	4.9	0.41	0.03			0.04		0	100.06
2-B	-16+60H	5140	4	506	P	G 9-1						41.94	0.56	21.31		3.39		6.59	21.01	5	0.34	0			0.06		0	100.18
2-B	-16+60H	5140	4	507	P	G 9-1						41.97	0.04	21.78		3.29		7.57	20.24	4.96	0.4	0.03			0.02		0	100.28
2-B	-16+60H	5140	4	508	P	G 9-1						42.05	0.14	21.51		3.74		7.9	19.65	5.1	0.46	0			0.02		0	100.56
2-B	-16+60H	5140	4	502	P	G11						41.64	0.1	19.17		6.29		7.19	18.9	6.23	0.44	0			0.03		0.01	99.98
2-B	-16+60H	5140	4	409	P	G11-1						41.79	0.76	19.06		5.92		6.52	20.09	5.72	0.32	0.01			0.09		0	100.27
2-B	-16+60H	5140	4	410	P	G11-1						40.89	0.66	16.04		9.54		6.29	19.21	8.34	0.34	0			0.06		0	99.37
2-B	-16+60H	5140	4	411	P	G11-1						41.77	0.34	19.71		5.37		7.65	19.12	5.68	0.47	0.02			0.07		0	100.2
2-B	-16+60H	5140	4	504	P	G11-1						41.6	0.08	19.35		6.4		6.36	20.49	5.27	0.39	0			0.02		0	99.97
2-B	-16+60H	5140	4	509	P	G11-1						41.02	0.32	18.5		6.92		7.65	18.66	6.14	0.46	0			0.04		0	99.72
2-B	-16+60H	5140	5	403	P	G11-1						41.57	0.14	20.08		4.87		7.71	19.53	5.29	0.44	0.01			0.04		0	99.68

Table 6: Electron Microprobe , R.L. Barnett Geological Services November 3, 2006
Sample 2A
McGarry Property, McGarry Twp., Ontario
Goldstake Explorations Inc.

Clinopyroxene

Grain	SiO_2	TiO_2	Al_2O_3	Cr_2O_3	FeO	MgO	MnO	CaO	K_2O	Na_2O	Sum	Comment
1	54.89	0.06	1.60	0.52	1.76	16.81	0.09	23.41	0.02	1.01	100.17	
2	54.91	0.05	2.79	2.10	1.83	14.97	0.18	21.45	0.01	2.21	100.50	DI
3	54.88	0.15	1.07	2.40	2.51	16.45	0.14	20.82	0.03	1.84	100.29	DI
4	54.57	0.07	1.27	0.58	2.60	16.78	0.15	23.47	0.02	0.86	100.37	
5	54.28	0.12	1.47	2.40	2.08	15.62	0.10	21.84	0.02	2.04	99.97	DI
6	55.12	0.01	1.41	1.20	1.47	16.56	0.14	23.55	0.01	1.07	100.54	
7	53.50	0.18	1.04	0.14	3.68	17.16	0.16	24.00	0.04	0.25	100.15	

Pyrope

Grain	SiO_2	TiO_2	Al_2O_3	Cr_2O_3	FeO	MgO	MnO	CaO	K_2O	Na_2O	Sum	Comment
1	41.40	0.45	18.69	7.01	5.95	20.48	0.24	5.53	--	--	99.75	G9
2	40.57	0.07	20.85	2.94	15.21	13.33	0.83	6.54	--	--	100.34	G9
3	41.69	0.21	19.47	5.97	7.01	18.95	0.37	6.12	--	--	99.79	G9
4	41.79	0.00	22.04	3.65	7.52	18.95	0.47	5.39	--	--	99.81	G9
5	40.87	0.39	17.89	8.19	7.25	18.22	0.60	6.33	--	--	99.74	G9
6	41.94	0.20	22.13	3.30	7.58	19.96	0.44	4.87	--	--	100.42	G9
7	41.81	0.00	22.50	3.41	6.87	19.94	0.46	5.34	--	--	100.33	G9
8	41.36	0.17	19.14	7.01	6.17	20.39	0.31	5.61	--	--	100.16	G9
9	41.54	0.54	18.43	7.73	6.02	19.95	0.32	6.00	--	--	100.53	G9
10	41.79	0.00	22.53	3.39	7.13	19.56	0.50	5.01	--	--	99.91	G9

Ecl-Garnet

Grain	SiO_2	TiO_2	Al_2O_3	Cr_2O_3	FeO	MgO	MnO	CaO	K_2O	Na_2O	Sum	Comment
1	41.90	1.05	22.39	0.82	9.71	19.13	0.36	4.77		0.13	100.26	DE
2	41.57	0.00	24.41	0.10	11.06	16.82	0.19	6.00		0.01	100.16	
3	41.59	0.91	22.72	0.35	10.83	18.95	0.41	4.51		0.10	100.37	DE

Chromite

Grain	SiO_2	TiO_2	Al_2O_3	Cr_2O_3	FeO	MgO	MnO	ZnO	NiO		Sum	Comment
1	0.00	0.23	13.12	55.03	20.55	10.24	0.45	0.00	0.17		99.79	
2	0.00	0.54	13.96	53.61	21.85	9.51	0.47	0.16	0.23		100.33	
3	0.00	0.72	9.71	59.04	19.20	10.82	0.45	0.19	0.16		100.29	

Ilmenite

Grain	SiO_2	TiO_2	Al_2O_3	Cr_2O_3	FeO	MgO	MnO	ZnO	NiO	N_2O_6	Sum	Comment
1	0.00	53.61	0.52	0.14	33.86	10.59	0.43	0.03	0.23	0.06	99.47	
2	0.00	53.47	0.41	0.19	36.17	9.43	0.37	0.07	0.19	0.13	100.43	
3	0.00	54.19	0.47	0.13	34.60	10.30	0.40	0.01	0.19	0.15	100.44	
4	0.07	54.55	0.65	0.09	34.11	10.17	0.35	0.06	0.18	0.15	100.38	
5	0.00	52.61	0.41	0.02	37.28	9.27	0.40	0.02	0.15	0.16	100.32	
6	0.00	50.99	0.20	0.56	39.01	8.06	0.44	0.06	0.23	0.34	99.89	
7	0.00	49.36	0.17	0.81	40.45	7.99	0.39	0.00	0.21	0.32	99.70	
8	0.02	54.42	0.50	0.04	33.34	10.47	0.40	0.00	0.21	0.07	99.47	
9	0.00	51.48	0.20	1.22	38.29	8.23	0.36	0.00	0.18	0.34	100.30	
10	0.02	54.43	0.45	0.07	34.10	10.45	0.34	0.00	0.16	0.14	100.16	

Olivine

Grain	SiO_2	TiO_2	Al_2O_3	Cr_2O_3	FeO	MgO	MnO	CaO	K_2O	Na_2O	NiO	Sum	Comment
1	40.99	0.01	0.00	0.00	7.05	51.54	0.18	0.03	0.00	0.01	0.30	100.11	Fo92.9 DI
2	40.57	0.03	0.01	0.00	12.97	46.06	0.23	0.07	0.00	0.02	0.30	100.26	Fo86.4
3	41.69	0.00	0.00	0.00	5.95	52.30	0.11	0.02	0.02	0.00	0.38	100.47	Fo94.0 DI
4	41.31	0.00	0.00	0.00	7.04	51.60	0.20	0.01	0.02	0.00	0.40	100.58	Fo92.9 DI
5	57.47	0.14	1.18	0.24	5.87	33.89	0.18	1.13	0.03	0.26	0.13	100.52	Fo91.1 DI
6	39.54	0.04	0.00	0.00	15.50	44.46	0.18	0.04	0.02	0.00	0.09	99.87	Fo83.6
7	40.78	0.01	0.00	0.00	8.98	49.93	0.21	0.02	0.00	0.00	0.34	100.27	Fo90.8
8	41.35	0.00	0.00	0.00	7.51	51.04	0.15	0.03	0.02	0.02	0.36	100.48	Fo92.4 DI
9	40.72	0.01	0.00	0.00	8.29	50.73	0.08	0.01	0.01	0.00	0.44	100.29	Fo91.6 DI
10	41.16	0.01	0.00	0.00	9.03	49.82	0.20	0.01	0.01	0.00	0.36	100.60	Fo90.8
11	41.23	0.00	0.00	0.00	6.50	52.25	0.12	0.03	0.01	0.00	0.39	100.53	Fo93.5 DI

DI Diamond Inclusion Composition, Diamond Paragenesis
DE Diamond Eclogite Paragenesis
Fo Fosterite (100x(MgO/(MgO + FeO)))

Many of the samples from the Stump Pond area contain large, coarse grains of olivine. The presence of olivine distinguishes this kimberlite mineral anomaly from other anomalous sites on the property. A second kimberlite mineral anomaly has been detected in the vicinity of Instant Pond. A description of the kimberlite minerals and sulphides found in the heavy mineral concentrates includes:

Pyrope Garnet

The greatest concentration of pyrope garnets were found in the Stump Pond area in bulk sample: 2A (38 grains) and 2B (13 grains) and, in 20 kg samples: 2AR (5 grains), 2D (7 grains), 2E (7 grains), 2AS (4 grains) and C2-5 (3 grains). Pyrope garnets range in colour between: purple, lilac, mauve, red and orange. Most of the garnets are fragments of larger pellet-shaped crystals. Pyrope fragments and pellets greater than 1 mm were found in samples: 2A, 2E and SSP. Well-preserved pelletal garnets, considered potential evidence of a local kimberlite source, occur in samples: 2A, 2AR, 2AS, 2D, 2E, SSP, C2-3 and WP-5. Many of the garnets in these samples are covered by well-preserved shagreen texture, the degree of preservation also suggesting the garnets are derived from a local source. Shagreen texture is a delicate frost-like coating which forms on the surfaces of minerals associated with kimberlite and is a result of partial resorption of the mineral by the kimberlite magma during kimberlite emplacement.

Microprobe analyses of 50 pyrope grains found all to be Ca-rich pyrope garnets typical of lherzolite paragenesis (Figure 9). Using standard Gurney Plots, C.F. Minerals has further subdivided the lherzolite garnets into: G9, G9-1, G11 and G11-1.

Chrome Diopside

Due to its bright green colour, chrome diopside was frequently identified in the heavy mineral concentrates without the aid of a microscope. Overall, chrome diopside is most abundant in samples collected in the Stump Pond area. The best concentration of grains were found in bulk samples 2A (9 grains) and, in 20 kg samples: 2AS (3 grains), 2D (2 grains) and SSP (2 grains). Chrome diopside grains found in the Stump Pond area general occur as partially preserved pellets with conchoidal cleavage. In contrast, chrome diopside from the Instant Pond area has sharp-edged well defined cleavages that intersect at 90^0. The variable crystal structures of chrome diopside found in the Stump Pond and Instant Pond areas suggest the grains are derived from different sources.

Microprobe analyses of 17 pyroxene grains found four to be Cr diopside with compositions overlapping harzburgite paragenesis akin the chrome diopside crystallizing with diamond (Figure 10). Eleven pyroxene grains coincide with augite compositions from non-kimberlitic sources. Four augite grains have compositions showing slightly elevated Na and are weakly associated with eclogite paragenesis. Two Ca depleted pyroxene are classified as orthopyroxene from an unknown source.

Olivine

Small fragments of yellow olivine grains appear to occur in most of the samples collected throughout the survey area. In the Stump Pond area, large fresh olivine crystals derived from kimberlite forms a significant component of samples: 1D (19 grains), 2a (144 grains), 2B (23 grains), 2AR (50 grains), 2D (50 grains), 2E (8 grains), SSP (50 grains), C2-3 (8 grains), WP-1 (4 grains) and possibly in WP-6 (5 grains?).

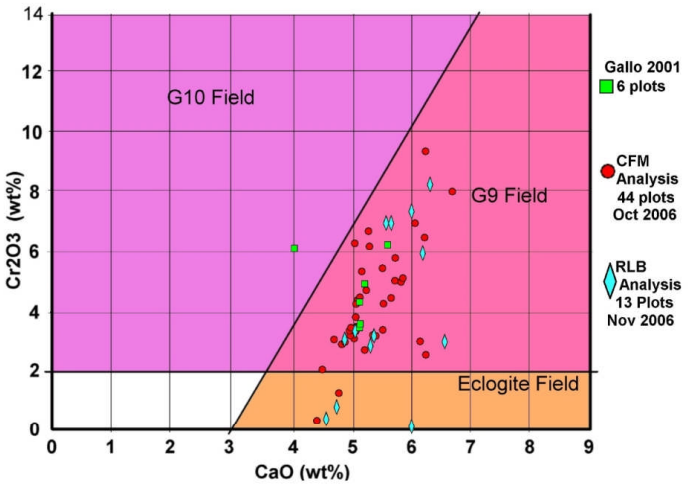


Figure 9.
PYROPE GARNET PLOT
after Dawson and Stephens, 1975

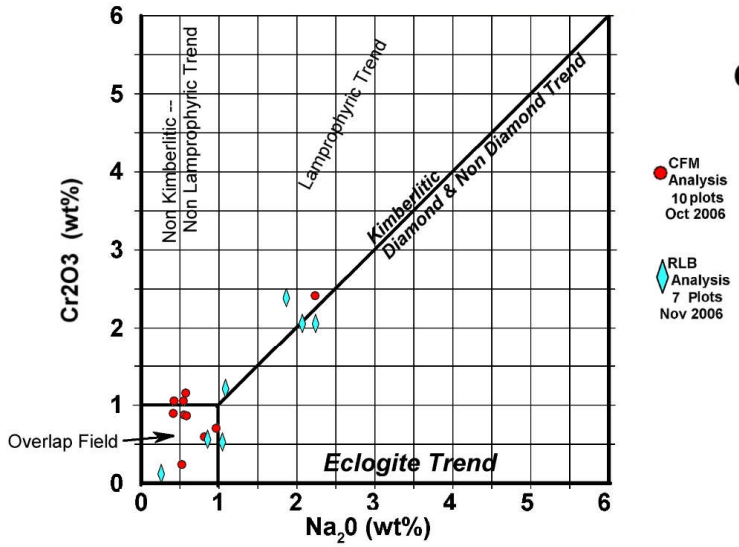


Figure 10.
Chrome Diopside-
after Barnett
Clinopyroxene Plot

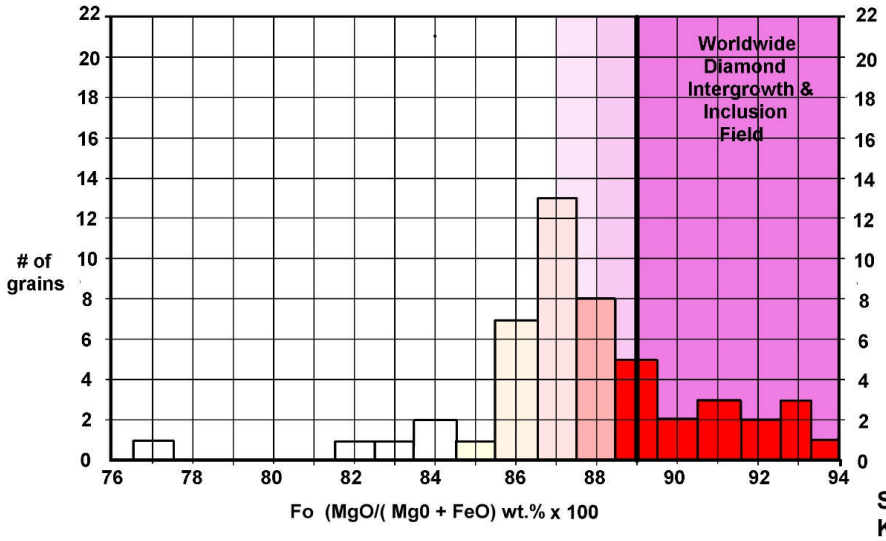


Figure 11.
Olivine Plot

STUMP POND
KIMBERLITE MINERAL ANOMALY
GOLDSTAKE EXPLORATIONS INC.
McGARRY TWP., ONTARIO

by: Arjadee Prospecting Nov 06

Olivine is very susceptible to erosion; the presence of large fresh grains olivine suggests a kimberlite source is close to the Stump Pond area. Olivine grains up to 2 mm in diameter were observed in samples: 2A, 2AR, 2AS, 2D, 2E, C2-3 and SSP. Many of the large olivine grains are covered with well-preserved shagreen texture and several of the grains found at different locations were observed with non-eroded kimberlite material still attached to the outer surface of the grains (Figure 8).

Based on colour, there are several populations of olivine present in the Stump Pond kimberlite mineral anomaly. Different colours of olivine include: clear-colourless, clear-yellow, cloudy-yellow and olive green.

In the Stump Pond area, olivine has been traced up-ice with respect to the initial path glaciation to samples: SSP, C2-3, WP-1 and WP-6. The source of the olivine grains is believed to be situated at a short distance to the north-northeast possibly corresponding to the area of Junction Pond. Heavily eroded grains of olivine considered to be from distal sources were found in samples: EBD and 173 (Figure 15).

Microprobe analyses of 60 grains from the Stump Pond area shows the olivine is composed of fosterite ranging Fo 84 to 94 (Figure 11). Clear-colourless and clear-yellow olivine show the strongest fosterite component ranging Fo89 to 94 and have crystallized along harzburgite trends known to coexist with diamond in kimberlite.

Chromite and Picroilmenite

Large pellet-shaped grains of chromite and picroilmenite also form a significant component of the Stump Pond kimberlite mineral anomaly. The abundance of the minerals in the heavy mineral concentrates coincides directly with elevated concentrations of olivine. The best concentrations of chromite and picroilmenite were found in bulk samples: 1A (12 grains), 1D (23 grains), 2A (175 grains) and 2B (19 grains) and, in 20 kg samples: 2AS (44 grains), 2D (50 grains), 2E (55 grains), C2-3 (11 grains) and WP-4 (4 grains).

Many of the pellet-shaped chromite and picroilmenite grains found within the Stump Pond anomaly have well-preserved patches of shagreen texture suggesting the grains are derived from a local source. In the area of the bulk sample 2A, the degree of preservation of shagreen texture, grain sizes and pellet preservation appears to strengthen/ increase in samples 2C, 2D and 2E taken north and slightly west of the 2A site. The degree of preservation of physical features on kimberlite minerals in sample 2E suggests the sample site is very close to a source, possibly being a linear magnetic feature which crosses through the area.

Tiny octahedral crystals of chromite were occasionally observed with the larger pellets and fragments. The minute crystals form a second population of chromite within the Stump Pond kimberlite mineral anomaly. Well-preserved chromite crystals were observed in samples: 2A, 2AS, 2E and SSP.

Microprobe analyses of 21 chromite grains found the compositions of 17 grains overlap with typical compositions of chromite from both kimberlitic and non-kimberlitic sources (Figure 12). Five chromite grains were found have elevated Ti considered unique only to kimberlite and lamproite. Two of the unique kimberlitic Ti-chromite show elevated Cr approaching chromite compositions associated with diamond.

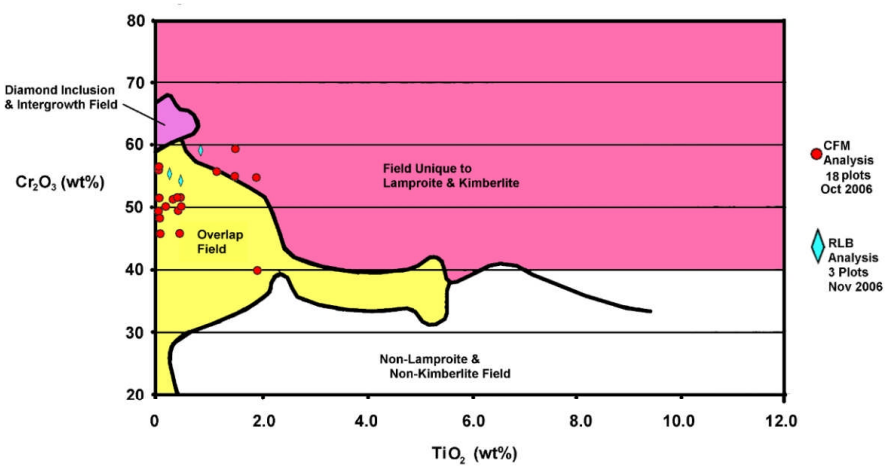


Figure 12.
Chromite Plot
after Fipke 1995

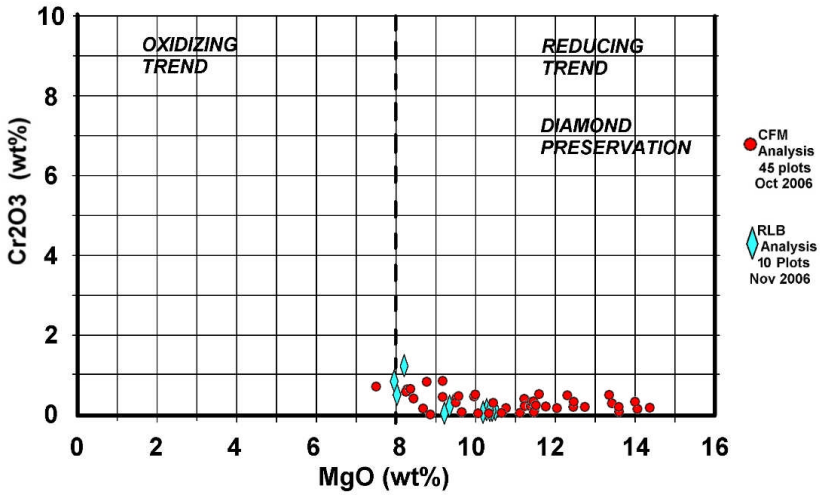


Figure 13.
PICROILMENITE PLOT

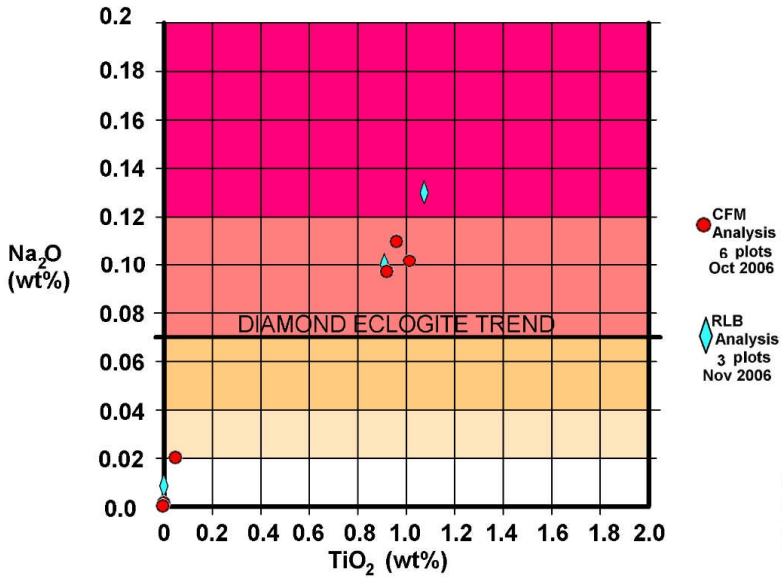


Figure 14.
Ca-Ti ECLOGITE GARNET PLOT

STUMP POND
KIMBERLITE MINERAL ANOMALY
GOLDSTAKE EXPLORATIONS INC.
McGARRY TWP., ONTARIO

by: Arjadee Prospecting Nov 06

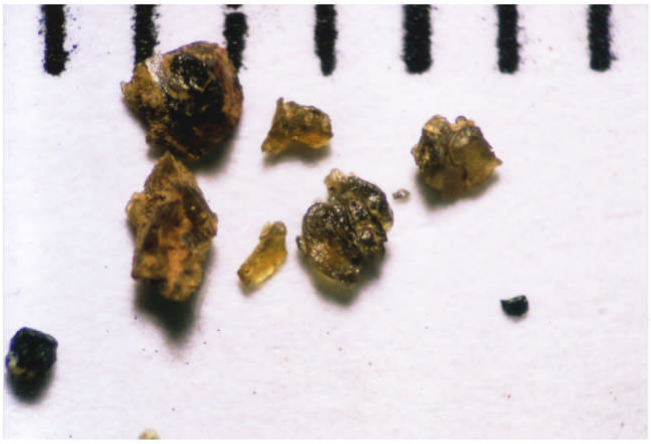


Figure 15.
NW JUNCTION POND
ERODED OLIVINE
Samples 173 & EBD
Top scale 1cm

Figure 16.
INSTANT POND
TARNISHED CHALCOPYRITE
Samples175 & C2-7
Top scale 1cm

McGARRY PROPERTY
McGARRY TWP., Ontario
GOLDSTAKE EXPLORATIONS INC.
photos by: RJD 2006

Microprobe analyses of 55 picroilmenite grains suggest steady crystallization of Mg ilmenite occurred in a reduced environment favorable for diamond preservation during kimberlite ascent (Figure 13). The microprobe results suggest there is low probability of diamond being converted to graphite during emplacement.

Eclogite Garnet

Various colours garnets were present in all the heavy mineral concentrates. Most of the "background" garnets are composed of a solid solution between almandine and grossularite derived from regional metamorphism. In the Stump Pond area, the frequency of almandine garnets increases with the kimberlite minerals and some are believed to be eclogite. Potential eclogite garnets are generally pellet-shaped and occur in a variety of colours ranging: pink, orange, orange-red and yellow.

Microprobe analysis of potential eclogite garnets has been limited during this survey due to the cost and difficultly of distinguishing eclogite garnet compositions from kimberlitic and non-kimberlitic sources. Microprobe analyses of 9 garnets found 5 eclogite garnets with sufficient Ca, Mg and Na to overlap the compositions of garnet associated with diamond-bearing eclogite nodules in kimberlite (Figure 14). The presence of the Na-rich eclogite garnets within the Stump Pond kimberlite mineral anomaly is very important since it greatly increases the diamond potential of the (kimberlite) source.

Sulphides and Gold

Brown cubic crystals and rounded grains of pyrite were seen in all the heavy mineral concentrates examined during this survey. The ubiquitous nature of the pyrite attests to the abundance of pyrite occurrences in outcrops on the property.

Yellow-tarnished grains of chalcopyrite were observed in several heavy mineral concentrates and can be traced to gold-copper mineralization occurring in the Instant Pond-South Zones (Figure 16). Samples with tarnished chalcopyrite include: 175 creek (14 grains), 176 (5 grains) and C2-7 creek (3 grains). A rock sample taken of chalcopyrite mineralization situated several metres east of sample 175 creek, assayed 0.63 g/t Au, 0.58% Cu and 2.0 g/t Ag. The drainage of the creek suggests copper mineralization extends west of the mineralized outcrop. Nine grains of chalcopyrite were also found in the bulk sample 1C and possibly reflect gold-copper mineralization occurring in the area south of Stump Pond.

A single gold grain was found with good quantities of fresh magnetite and pyrite in sample C2-10. The sample also contained a single grain of an unknown silver metallic mineral believed to be arsenopyrite. The sample site is adjacent to several east-west trending magnetic-IP anomalies associated with faulted, carbonated and deformed rocks situated south of Instant Pond.

A small rock fragment of quartz was found in the cobble fraction (+5 cm) in sample WP-4. The quartz is sucrosic, strongly carbonated and contains 30% fine pyrite. A sample has been sent for assay but results were not available at the time of this report.

III. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Strong concentrations of kimberlite minerals have been detected in the Stump Pond area and are believed to be from a local kimberlite source. This is partial evident by the abundance of clear-colourless and clear-yellow fosterite olivine occurring in the area. Significant quantities of olivine are rarely detected by heavy mineral surveys due to the strong susceptibility to weathering. When transported by erosional processes, olivine disintegrates rapidly with increasing distance from source. Olivine grains found in the Stump Pond area have distinctly 'fresh' appearances and (more importantly) remnants of un-eroded kimberlite on grain surfaces (Figure's 8 & 18). The probability of a local kimberlite source is also evidence by the abundance of large pellet-shaped kimberlite minerals with good preservation of magmatic textures on crystal faces (Figure 19) and by observations of multiple colours of pyrope garnet.

A second kimberlite mineral anomaly has been detected on the northwest limit of this survey in the vicinity of the Instant Pond area. The range of kimberlite minerals has no definition and more sampling is required to trace the anomaly into any particular area. Government aeromagnetic data depicts two Keating Filter magnetic anomalies situated several kilometres northwest of Instant Pond which could be potential sources for the kimberlite minerals.

Kimberlite mineral chemistries from grains selected from the Stump Pond anomaly overlap compositions of minerals known to coexist with diamond in kimberlite. Minerals considered as diamond indicator minerals include: fosterite olivine Fo89-94 and Na-rich chrome diopside. The microprobe analyses of these minerals suggest crystallization occurred in the upper mantle along harzburgite trends, in regimes conducive for simultaneous crystallization of diamond. The diamond potential of the source is further strengthened by the presence of Na-rich eclogite garnet with compositions similar to garnet associated with diamond eclogite paragenesis.

The strength of the kimberlite mineral anomaly is focused on the samples: 2A, 2AR, 2AS, 2C, 2D, 2E and SSP. The distribution of the best concentrations of kimberlite minerals forms a line coinciding with the path of the first glaciation, orientated 212^0 (Figure 20) and points towards Junction Pond as a location for the potential source of the kimberlite minerals. Final phases of the heavy mineral program focused on testing this area for kimberlite minerals and try to establish an up-ice limit to the distribution of the kimberlite minerals before the property boundary. The heavy mineral survey was successful and extending the range of kimberlite minerals in a northeast direction towards Junction Pond with the detection of kimberlite minerals in samples: WP-1, WP-4 and WP-6. North of Junction Pond, a line of samples with no significant concentrations of kimberlite minerals forms an apparent up-ice limit to the Stump Pond kimberlite mineral anomaly.

Magnetic concentrates separated from the heavy mineral concentrates during processing consist of variably magnetic minerals generally composed of magnetite, ilmenite and various minerals and rock fragments containing magnetic inclusions. No significant increase in magnetite was noted in any of the concentrates containing abundant kimberlite minerals. This suggests the source of the kimberlite minerals may not contain significant concentrations of magnetite possibly resulting in a very weak to no magnetic signature on magnetometer surveys.

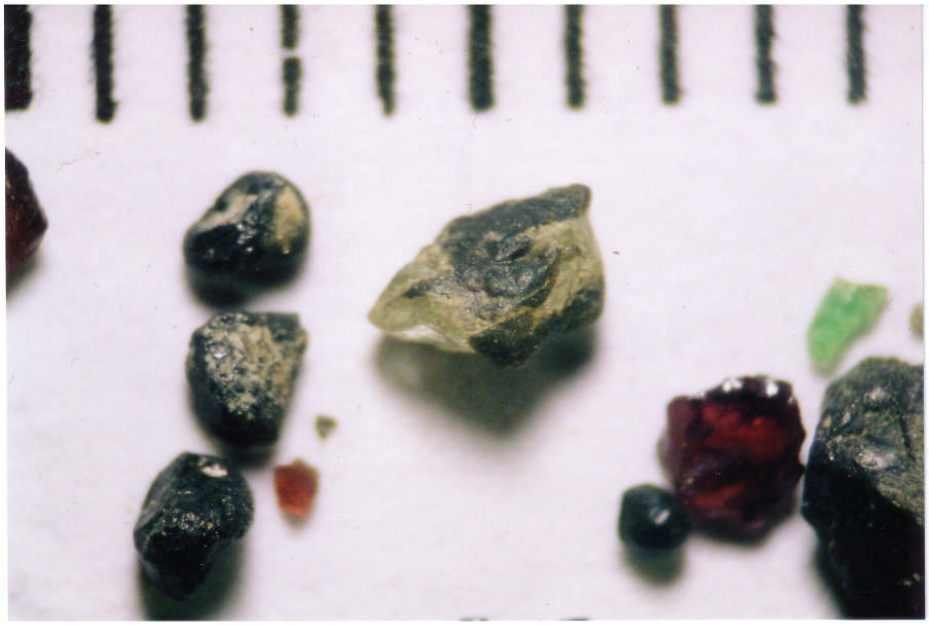


Figure 18. : Kimberlite encrusted olivine grain.
Sample 2E, 2A Site
Top Scale 1 cm

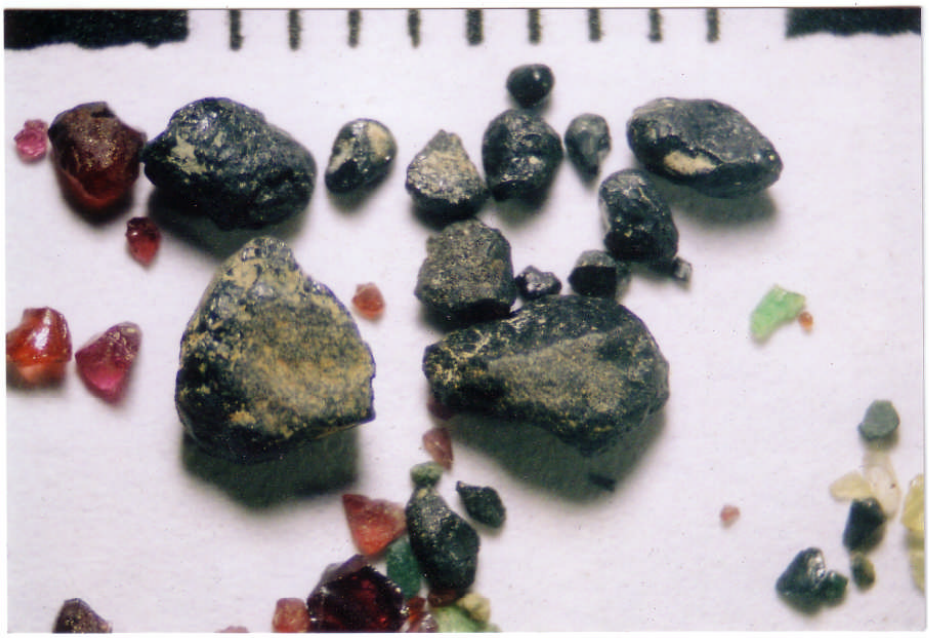


Figure 19. : Picroilmenite and chromite showing excellent preservation of resorption features on grain surfaces.
Sample 2E, 2A Site
Top Scale 1 cm

DIAMOND EXPLORATION
McGarry Twp. Property, Ontario
Goldstake Explorations Inc.

Photos by: RJD 2007

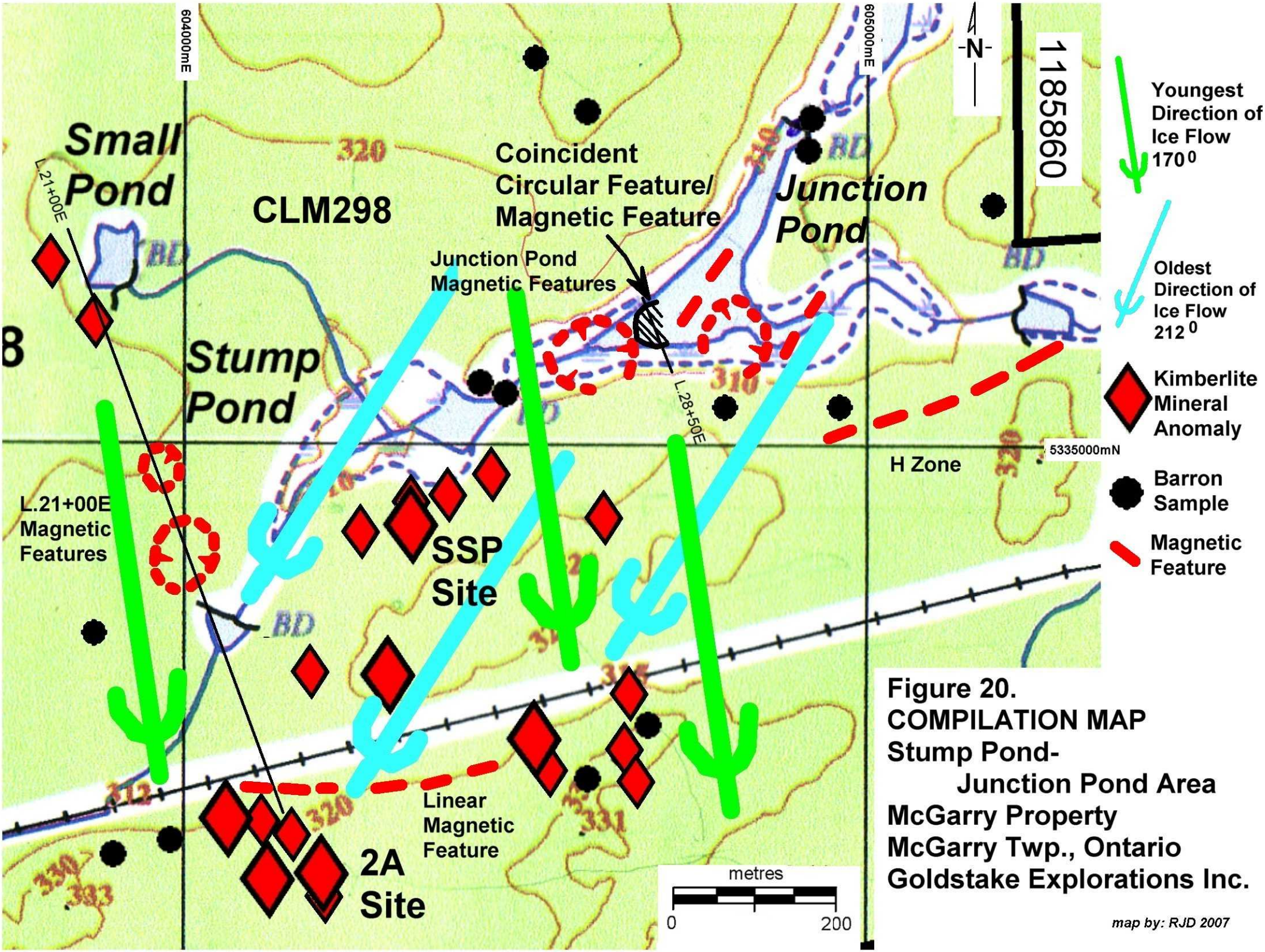


Figure 20.
COMPILATION MAP
Stump Pond-
Junction Pond Area
McGarry Property
McGarry Twp., Ontario
Goldstake Explorations Inc.

map by: RJD 2007

Previously completed ground magnetic surveys have detected four magnetic features situated within the range of kimberlite minerals found in the Stump Pond area. The magnetic features resemble potential kimberlite pipes and dykes and are considered as possible sources for kimberlite minerals. The magnetic survey over Stump Pond and Junction Pond by Ferderber and Jacques in March of 2007 detected several complex magnetic responses under Junction Pond. Although results of the magnetometer survey are open to interpretation due to the limited extent of the survey and data presentation, the Junction Pond magnetic anomalies are of particular interest since the features are situated directly up-ice with respect to the oldest glaciation to the strongest concentrations of kimberlite minerals found in the Stump Pond kimberlite anomaly. The magnetometer survey partially depicts the features as circular shaped magnetic lows centered on line 27+50E between 6+00N to 7+50N and on line 29+50E between 5+50N to 6+75N. The magnetic features measure between 125 to 150 metres in diameter and both range approximately 120 nanoteslas (nT) below adjacent magnetic responses. The interpretation of the magnetic survey suggests in the vicinity of line 28+50E the magnetic lows straddle a northeast trending linear magnetic feature which appears to follow the Junction Pond lineament. The intersection of magnetic features is complex and could be open to additional interpretation as it is appears to be marked by a subtle magnetic response which partially dampens the response of the northeast trending feature. The intersection of the magnetic response occurs on line 28+50E and coincides with the location of a discrete semi-circular vegetation feature depicted in Junction Pond by the 1986 air photograph of the area (Figure 21). It is possible the feature on the air photo marks the outline of a kimberlite pipe.

In 1995 Transpacific completed a ground magnetic survey over the area southeast of Junction Pond and detected an east-west trending linear magnetic feature which appears to cross the northern section of the Stump Pond kimberlite mineral anomaly (Figure 22). The “H Zone” was traced over 1,300 meters by the survey but no record has been found if the magnetic feature has been identified by previous exploration. The dyke-like feature ranges up 1,100 nT which is stronger than a typical kimberlite response and more indicative of diabase. Because the magnetic feature has not been identified, the H Zone could be of interest due to the position of the magnetic feature with respect to the kimberlite minerals found in the area. Also, the interpretation of the magnetic data by Transpacific suggests the H Zone is not cut and off-set by northeast trending faults known to cross through the area indicating the age of the magnetic feature is relatively ‘young’, as kimberlite would be, and occurred during a later event with respect to faulting in the area.

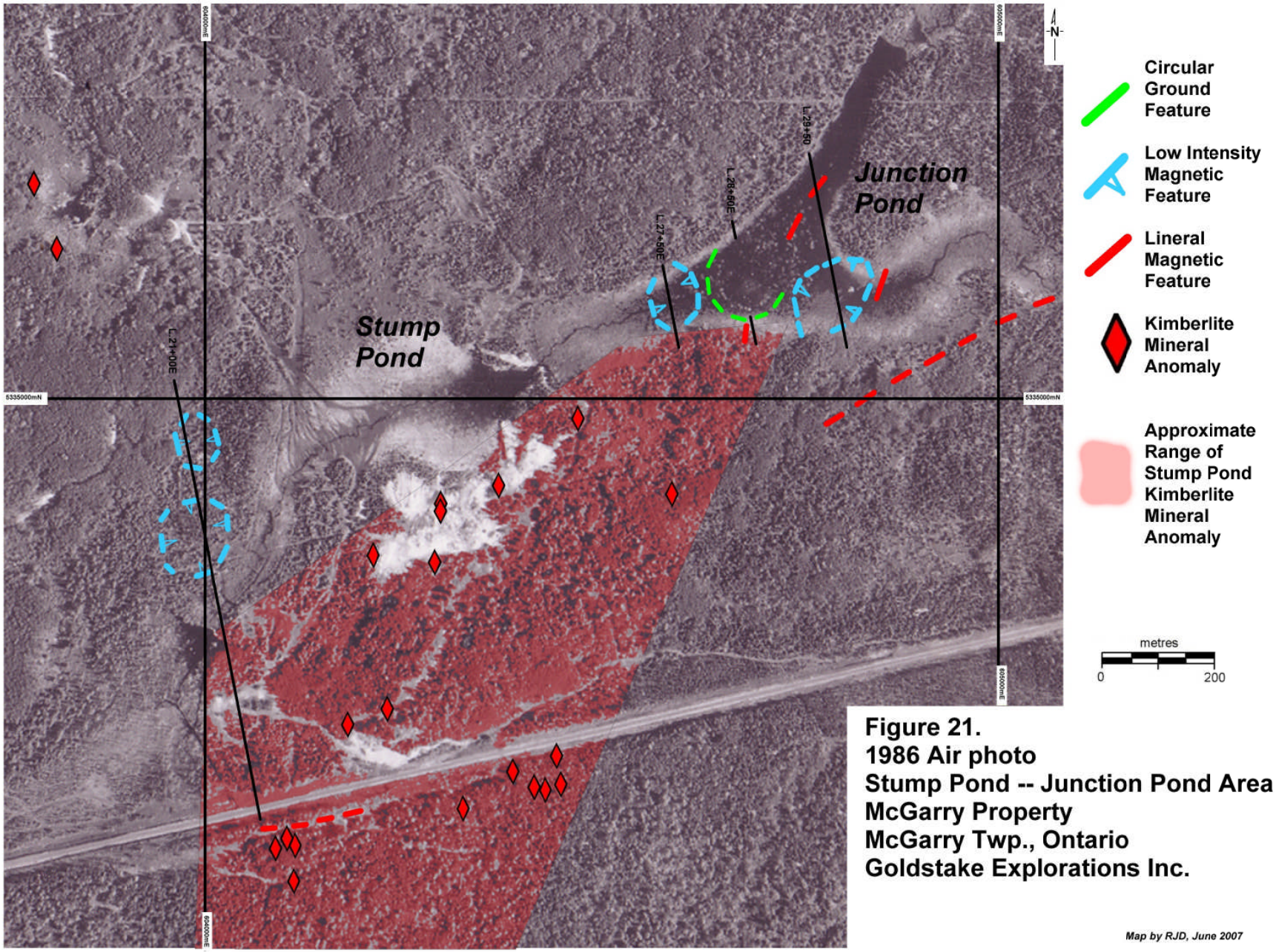


Figure 21.
1986 Air photo
Stump Pond -- Junction Pond Area
McGarry Property
McGarry Twp., Ontario
Goldstake Explorations Inc.

Map by RJD, June 2007

In the vicinity to the 2A Site, the degree of grain shape preservation and magmatic features on the kimberlite minerals is heightened at the 2E site and provides some evidence suggesting the Stump Pond kimberlite mineral anomaly could be derived from more than one source. A ground magnetic survey by Larder Geophysics Ltd. in 2006 detected two circular low-intensity magnetic responses on line 21+00E between 5+50N and 8+00N (Figure 23). The magnetic features could be adjacent pipes measuring approximately 75 to 125 metres in diameter and range between 100 to 200 nT below surrounding magnetic responses. With respect to the youngest ice event, the L.21+00E magnetic features are situated directly up-ice from the kimberlite minerals found at the 2A Site but with respect to the oldest glaciation, the magnetic features can not be the source of the minerals found in the vicinity to the SSP Site.

In 2006, a ground magnetic survey by St. Lambert Ltd. detected a subtle east-west striking linear dyke-like response crossing the 2A-2E section of the Stump Pond kimberlite mineral anomaly south of the railway tracks. A small ground magnetic survey by the author over the immediate area of the sample sites found the dyke-like magnetic feature strikes within several metres up-ice to the fresh kimberlite minerals found in samples 2C, 2D and 2E. The dyke-like response ranges up to 290 nT above background magnetic variations and is shown on a ground magnetic survey by Sagax Ltd. in 1984 to continue for several kilometres striking close and parallel to the Ivan Larder Fault.

Drill logs of several drill holes in the Stump Pond area report small intersections of peculiar dykes composed of unknown rock types. The peculiar dykes could be of interest as potential kimberlite but it is difficult to conceive that qualified geologists did not recognize the dykes as kimberlite at the time of logging. Currently, no inspection of the core has been made be author and until such time, the dyke intersections should be considered as low priority targets.

Recommendations

The heavy mineral survey completed by Goldstake has detected an olivine bearing kimberlite mineral anomaly displaying certain characteristics to suggest the minerals are derived from one or more local kimberlite sources. Grain chemistries determined using an electron microprobe indicates crystallization of the kimberlite minerals occurred along lherzolite, harzburgite and eclogite trends overlapping those known to coexist with diamond and raises the possibility of a diamond-bearing kimberlite occurring in the vicinity to the Stump Pond kimberlite mineral anomaly.

The magnetic features situated under Junction Pond are considered to have the highest potential of representing kimberlite and possible source of the kimberlite minerals in the Stump Pond area. Although other magnetic features exist throughout the Stump Pond area, the position of the Junction Pond anomalies best coincides with glacial paths connecting the kimberlite minerals to the magnetic features.

The recent magnetic survey over Junction Pond only partially outlines the magnetic features potentially representing kimberlite and results of the survey are considered open to interpretation. It is recommended the magnetic survey be extended for 100 metres on each line on either side of the pond. Extending the survey would help correlate the Junction Pond survey with other magnetic data for the area obtained from historic surveys and define the boundaries of the low intensity responses centered on lines 27+50E and 29+50E. A reinterpretation of the original magnetic survey combined with the new data may help define the margins of the

magnetic response on line 28+50E that is coincident with the circular feature shown on an air photograph of the pond.

Upon completion of the magnetometer survey and reinterpretation of data, a drill program is recommended to test four magnetic features in the Stump Pond area as potential kimberlite and diamond sources. The program should consist of 6 inclined holes ranging 75 to 150 metres in depth combined to total 800 metres. The targets of the drill program are outlined in Figure 24. and include:

Junction Pond	L.28+00E	7+60N	Drilled 150 m SE at 45^0 dip to test coincident circular vegetation feature – magnetic anomaly.
	L.28+00E	7+60N	Drilled 150 m SW at 45^0 dip to test circular low intensity magnetic response.
H Zone	L.33+00E	5+00N	Drilled 75 m N at 45^0 dip test linear dyke-like feature.
L.21+00E	L.21+00E	5+50N	Drilled 150 m grid N at 45^0 dip to test circular low intensity magnetic response.
	L.21+00E	6+75N	Drilled 150 m grid N at 45^0 dip circular low intensity magnetic response.
L..21+00E	L.21+00E	2+75N	Drilled 125 m grid S at 45^0 dip to test linear dyke-like feature.

Contingent to the intersection of a kimberlite, the drill program should expect to include an additional 300 metres of drilling and related core analysis for diamond.

NQ core should be used to provide sufficient material for diamond analysis.

It is recommended the drill program commence in the winter due to numerous creeks and swamps on route to drill sites. Access to the Junction Pond area in the summer will require construction of several culverts on creeks and gravel up-grades to sections of the road.

Prior to drilling in any season, the Ministry of Natural Resources (MNR) has requested the construction of a temporary bridge or a culvert for the road crossing the creek at UTM coordinates: 604313mE, 5336242mN. A Work Permit must be submitted and approved by the MNR prior to the construction of the water-crossing. The Work Permit process requires an estimated 6 weeks for processing once an application has been submitted to the MNR.

An estimated cost for the proposed drill program based on current drilling costs is outlined in Table 7.

Respectfully submitted:

Robert James Dillman P.Geo
Arjadee Prospecting

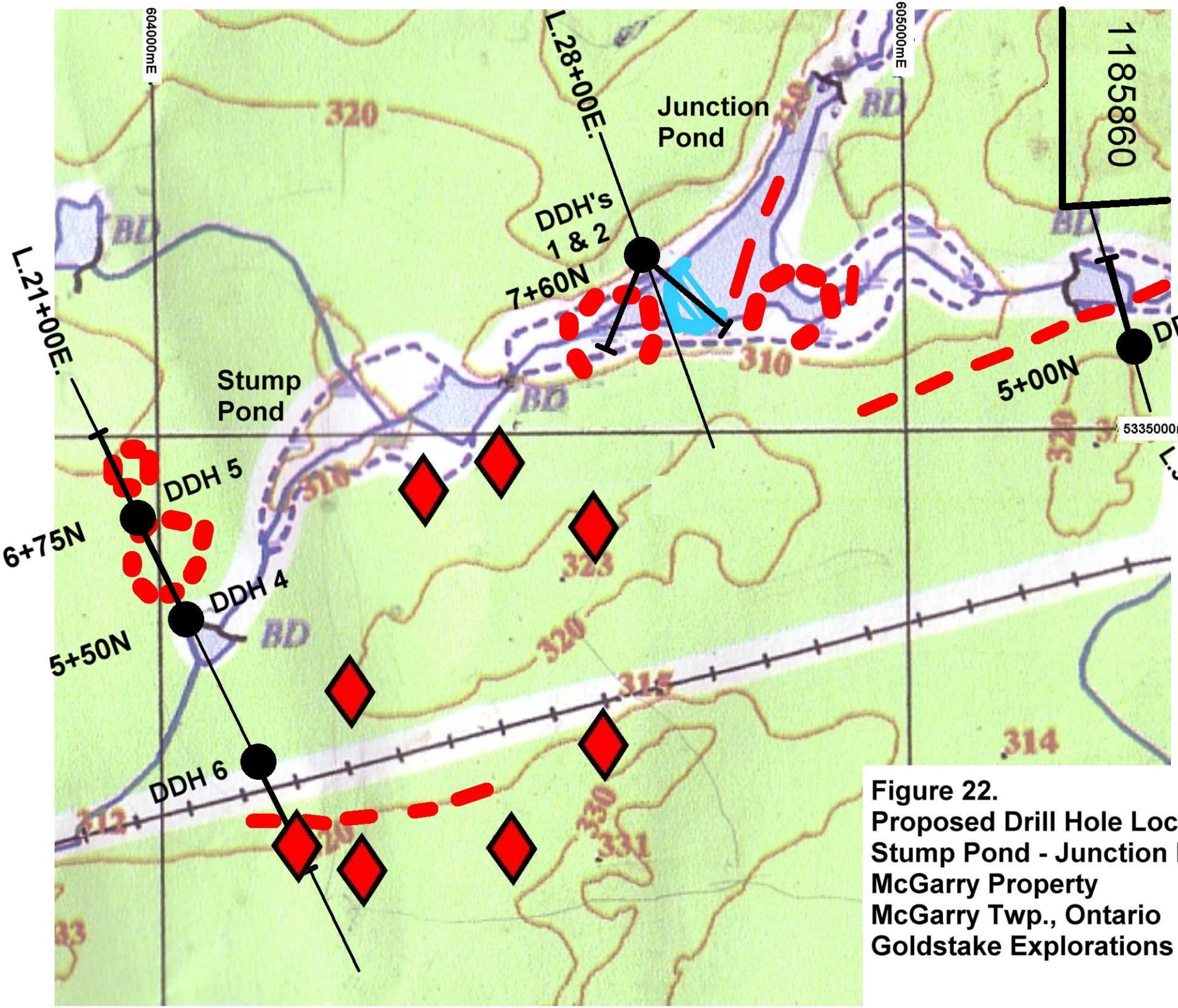


Figure 22.
Proposed Drill Hole Locations
Stump Pond - Junction Pond Area
McGarry Property
McGarry Twp., Ontario
Goldstake Explorations Inc.

Table 7.
Budget For Proposed Drill program For Diamonds
McGarry Property, Ontario
Goldstake Explorations Inc.

Magnetometer survey + maps	2.6 km @ $1000/km	$2,600
Six Hole Drill Program Totaling 800 metres:		
Diamond Drilling	650 m @ $78/m	$62,400
Core Boxes	250 boxes @ $9/box	2,250
Mob/Demob		6,000
Drill Moves	$185/hr 48 hr. est.	8,880
Drillers Room & Broad	21 days @ $85/ day x 4 men	7,140
Drill Supervision and Logging	21 days @ $425/day	8,925
Helper	21 days @ $325/day	6,825
Room and Broad	21 days @160/day	3,360
Transportation	truck, ATV	5,000
Core Shack Rental	$50 per day	1,050
Bridge Construction		20,000
Subtotal		$134,430
GST		8,066
15% Contingency		21,000
Subtotal		$163,496
Contingency Drilling and core Analyses 300m @ $78/m + $10,000		33,400
Culverts and Road Repair (Summer access only)		15,000
Total		**$211,900**

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C E R T I F I C A T E

I, **ROBERT JAMES DILLMAN**, do hereby certify as follows:

[1.] I am a **Mining Exploration Geologist** and that I reside and carry on business at **8901 Reily Drive,** in the town of **Mount Brydges, Ontario.**

[2.] I am a **Graduate** of the **University of Western Ontario,** and hold a **Bachelor of Science Degree** and majored in **Geology.**

[3.] I have been practicing my profession as a **Geologist** since **1992.**

[4.] I am a **Licensed Prospector** in **Ontario** and have been actively engaged as a **Professional Prospector** since **1978.**

[5.] My report, dated **June 30, 2007**, titled: **"REPORT OF HEAVY MINERAL SAMPLING FOR KIMBERLITE INDICATOR MINERALS ON THE McGARRY PROPERTY, McGARRY AND McVITTIE TOWNSHIP'S, ONTARIO, GOLDSTAKE EXPLORATIONS INC"** is based on information collected by myself between **July, 2006** to **June 30, 2007,** the **date of this report**. Any other information which has been gathered from additional sources has been cited in this report.

[6.] The information given in this report is as **accurate** as to the best of my knowledge and I have **not stated false information** for personal gain.

[7.] I **authorize** the use of this report or any part of if **proper credit** is given to the original author.

[8.] I have **no monetary interest** in the McGarry Property or Goldstake Explorations Inc..

[9.] I am a member of the **Canadian Institute of Mining**.

[10.] I am a member of the **Association of Professional Geoscientists of Ontario, APGO No. 530.**

ROBERT JAMES DILLMAN, B.Sc.
GEOLOGIST

Dated at Mount Brydges, Ontario
This 30th day of June, 2007

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: Kirkland Lake, Ontario

Sample Number: PAIL
Date: October 6, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	170.1 g	23.4 g	60.3 g	2.3 g	256.1 g
Non Magnetic Conc. Specific Gravity: 3	65.1g →	combined	293.0 g	11.7 g	369.8 g
Total Weight of Conc.	235.2 g	23.4 g	353.3 g	13.0 g	625.9 g
Amount of Non Magnetic Conc. Examined	100%	100%	100%	100%	100%

-5 to +2 mm
Rock Fragments: abundant locally sourced fine grained metavolcanic fragments consisting of assortment of light green, grey, yellow and white amphiboles +/- brown biotite +/- quartz & feldspar, some dark green peridotite fragments, distinctive waxy looking fine grained dark green amphibole. Less abundant distal grey limestone and white fine granular sandstone fragments

-2 to +1 mm
-decreasing rock fragments, increasing single mineral fragments of light green, yellow and white amphibole, black amphibole, traces black metals consisting: rutile?, ilmenite?, chromite?, slag. Occasional euhedral cube of rust coated pyrite, local source.
-1 clear yellow olivine megacryst, well preserved shagren surface, local source KIM.
-3 possible chromite/picroilmenite fragments

-1 to +0.18 mm
-abundant light green, yellow and white amphibole fragments, some dark green peridotite fragments, distinctive waxy looking fine grained dark green amphibole, traces of locally sourced fragments of black or dark brown silicate which could be a pyroxene.
-increasing garnets with decreasing grain size, approx. 0.5% below 0.25 mm, pink and orange almandine, some yellow spessertine some of which could be fragments of clear yellow amphibole.
-increasing zircon with decreasing grain size, approx. 1% below 0.25 mm, abundant clear fragments and pellets, lesser pink and orange fragments.
-1 violet pyrope fragment, 0.6 mm, angular fragment, partial shagren moderately preserved on one face, KIM.
-1 chrome diopside, pelletal, 0.8 mm, partial shagren moderately preserved half of grain, KIM.
-2 clear green cpx, 0.5 mm, fresh fragment, several darker green cpx, shapeless grains.
- several bright orange almandine fragments and small pellets which could be eclogite.
-several possible eclogite corundum, orange, pink and dull purple, shapeless round edge grains.
->0.5% black metallic grains, shapeless fragments some rounded some angular, could be rutile, chromite and picroilmenite, +20 grains selected, many not picked, black silica and slag contamination.
-5 olivine: 3 clear yellow (Fosterite) good shagren preservation, 1 clear, 1 clear slight green.
-increasing local sourced rusty euhedral – subhedral pyrite cubes, some chalcopyrite fragments, 2 dull grey angular metallic grains one with partial azurite-malachite coating.

-0.18 mm
-increasing garnets, zircons, black metallic fragments and contamination
-traces of minute ~0.1 mm black metallic euhedral octahedral crystals: possible Zn-chromite and/or perovskite, magnetite.

Summary: sample contains 1 pyrope (G9?), 1 chrome diopside and 8 megacrystic olivine from a very local kimberlite source. There are numerous picroilmenite-chromite candidates. There is pyrite-chalcopyrite (copper) mineralization close to sample site. Small octahedral chromite source or possible kimberlitic perovskite. Strong slag contamination.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: Kirkland Lake, Ontario

Sample Number: 1-A-1
Date: October 11, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	→	13.6 g	0.5 g	14.1 g
Non Magnetic Conc. Specific Gravity: 3	--	75.5 g	82.3 g	NP	157.8 g
Total Weight of Conc.		75 .5 g	95.9 g	0.5 g	171.9 g
Amount of Conc. Examined		100%	100%		100%

-2 to +1.0 mm
-various grey igneous and metavolcanic rock fragments, white, grey, dark green waxy, fresh quartz-black amphibole.
-3 black metallics: 2 pellet fragments of potential chromite one with moderately well preserved shagren texture on remaining outer surface. 1 potential picroilmenite nearly intact pellet, small chip off grain edge, well preserved shagreen on grain surface, source close.

-1.0 to +0.18 mm
-smaller white, grey and dark green waxy rock fragments dominate coarser fraction, new fresh rock type: fine grained silver grey matrix with golden brown mica flakes <0.4mm diameter, source close: lamprophyre??
-several fresh minerals from very close source: dark green clinopyroxene: strong cleavage; dark green mica: new mineral for area, fragments of books; euhedral brown zircons several well preserved crystals same distinct zircon as seen in Pail sample, traces of yellow amphibole: clusters of small granular clear yellow grains, individual grains form some minor component of fine fraction, same yellow amphibole seen in other concentrates ; fresh quartz + black amphibole coarse grained rock fragments; waxy green amphibole, common wallrock source.
-6 chalcopyrite, various sizes, angular, fresh. No pyrite.
-2 chromite, one euhedral octahedral crystal, very well preserved, 0.8 mm, source close, one small partially eroded subhedral crystal.
-1 chromite/picroilmenite partially preserved pellet 0.9 mm, well-preserved shagreen on one face. Several small metallic grains in finest fraction which could be ilmenite, chromite or magnetite.
-very rare garnet pink and orange, several fresh clear-orange anhedral crystals or sub-pellets in finest fraction, source close?,
-1 brown schorlmite prefect pellet, 0.3 mm.
-traces of potential yellow clear olivine, could be clear yellow amphibole, small granular grains.
-several light green and dark green clinopyroxene, small pellets and/or rounded fragments.

Summary: Sample contains good tenor of new and fresh faced minerals from very local source(s) which could be lamprophyre??. There are 4 macro-megacrystic chromite/picrolimenite? with well-preserved magmatic textures suggesting the source (probably different: kimberlitic) is also close to sample site. There are no large orange garnet fragments, olivine and euhedral pyrite grains as seen in the Pail sample.

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Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: Kirkland Lake, Ontario

Sample Number: 1-A-2
Date: October 13, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	→	8.7 g	0.8 g	9.6 g
Non Magnetic Conc. Specific Gravity: 3	--	→	48.9 g	NP	48.9 g
Total Weight of Conc.	--	→	57.6 g	0.8 g	58.5 g
Amount of Conc. Examined			100%		100%

-2.0 to +0.18 mm
-light brown clay partially coating majority of grains.
-slightly higher tenor of lighter coloured amphibole, traces of black hornblende some with quartz, several fresh faced fine grained acicular dark green peridotite? rock fragments as seen in samples 1B and 1-A-1.
-traces of black to dark-brown angular silicate as seen in Pail sample, fresh faced, non clay coated.
-3 rust coated pyrite cubes, round edge slightly worn as seen in Pail sample.
-traces of rust flakes, one with malachite.
-several dark brown silicate sub-pellets or spheres, one with partial tail growth: slag?
-3 small <0.4 mm well worn black metallic, possible chromite or ilmenite fragments.
-<0.5% small orange and pink garnet, several brighter orange fragments, several small orange and pink pellets and/or anhedral crystals.
-traces of clear, orange and pink zircon in finest fraction, several minute euhedral orange and pink dodecahedral crystals. 2 fragments of >0.5 mm distinctive brown euhedral zircon crystals as seen in Pail sample.
-very rare green clinopyroxene, one 0.5 mm grain fresh faced grain shows good cleavage.
-traces of yellow amphibole common throughout the samples, some could be clear yellow olivine.

Summary: sample does not contain any obvious kimberlite minerals. Shows some similarity to Pail sample and sample 1-A-1.

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Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: Kirkland Lake, Ontario

Sample Number: 1B
Date: October 7, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	→	11.1 g	1.3 g	12.4 g
Non Magnetic Conc. Specific Gravity: 3	--	→	73.6 g	NP	73.6 g
Total Weight of Conc.			84.7 g	1.3 g	86.0 g
Amount of Conc. Examined			100%		100%

-2 to +0.18 mm
-abundant fine to medium grained light green and white metavolcanic rock fragments, Traces of darker green peridotite. Large grains of white and light green amphibole, black hornblende and waxy green amphibole?. Traces of distal grey limestone and white calcareous sandstone.
-garnet restricted to finest fraction, orange and pink almandine fragments, some small pellets, traces of clear yellow grains could be spessartine and/or olivine.
-clear zircon pellets of all sizes common to other samples. Small pink and orange zircon in smallest size fractions.
-traces of clear yellow amphibole >0.5 mm, some could be olivine. Fairly abundant black amphiboles, fragments of all sizes.
-Potential yellow olivine increasing in finest fraction.
-several +0.5 mm fragments of black (ilmenite?)to very dark brown silicate possible tourmaline.
-several small, shapeless fragments of green augite.
-rare pyrite, several rusty cubes well preserved, 1 chalcopyrite fragment.
-partial clay coating on majority of grains.

Summary
No obvious kimberlite minerals. Some of the fine yellow grains could be olivine. Sulphide mineralization in the area.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: Kirkland Lake, Ontario

Sample Number: 1C- Prewash from Hutches
Date: November 4, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.		CP	41.8 g	NP	
Non Magnetic Conc. Specific Gravity: 3		CP	321 g	NP	
Total Weight of Conc.		CP	362.8 g	NP	
Amount of Conc. Examined			171.8 g 54%		

-1.0 to +0.18 mm
-background of light yellow and green amphibole, lesser grey material, some waxy green Temiscamingue metasediment , rare dark green acicular peridotite rock fragments .
-1 potential lamprophyre rock fragment: fine silver-grey matrix with randomly orientated light brown mica.
-occassional black silicate fragment, possible tourmaline some could be slag silicate. Slag in sample. 5 gold brass shavings.
-fairly abundant pyrite, rusty euhedral to weathered cubes, 1 quartz + fine yellow pyrite from different source: gold potential. Several shapeless grey metallic grains as seen in sample: Bag of Rerun, Bag#1 from Hutch#2, magnetite?., several shapeless-weathered fragments of chalcopyrite.
-traces of black crustal ilmenite, as seen in sample: 1D, slightly eroded euhedral crystals to anhedral crystals some with yellow amphibole and quartz inclusions.
-several fine-grained hematite grains, one with quartz.
-1 dark green mica as seen in sample1-A-1.
-traces of brown zircon from local source, 1 euhedral well-preserved orange crystal plus many small fragments, abundant clear fragments increasing with decreasing grain size, occasional honey-yellow anhedral crystal from local source.
-fairly abundant orange and lesser amounts of pink garnet, good population of euhedral orange crystals in various stages of preservation, metamorphic local source. 3 violet and lilac pyrope fragments one with some shagreen preservation.
-several black metallic fragments of potential chromite/ picroilmenite, fragments of pellet grains some shagreen preservation, some of the black metallics could be crustal ilmenite, several minute rounded octahedral crystals of potential chromite.
-3 olivine, one fresh clear-yellow grain as seen in sample 2A, 2 grains worn/ etched along cleavges as seen in sample 1D, some darker yellow grains could be amphibole.
-3 chrome diopside, 1 fragment of pellet grain with outer grain surface partially preserved, 2 small shapeless fragments. 1 darker green augite.

Summary:
Sample contains several kimberlite minerals. Some KIM's have transport evidence, some have some preservation of magmatic features. Various sulphide sources in area, common euhedral brown pyrite cubes, distal chalcopyrite source, quartz-pyrite composite from local potential gold source. Hematite source close to sample site. Crustal ilmenite source close to sample site. Green mica and small chromites maybe of interest. Potential lamprophyre.

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Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: 1CST Shaker table
Date: December 27, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.		NP	21.9 g	NP	21.9 g
Non Magnetic Conc. Specific Gravity: 3		NP	218.3 g	NP	218.3 g
Total Weight of Conc.			240.2 g		240.2 g
Amount of Conc. Examined			123.3 g 57%		123.3 g 57%

-1.0 to +0.18 mm
-background of grey, green and rarer white and yellow amphiboles and fine-grained, aphanitic schistose rock fragments of similar colours. Rare black amphibole, traces of fresh fragments of glassy dark honey brown amphibole from local source.
-good tenor of tarnished pyrite, many well preserved cubes to partially eroded cubes, some in composite white amphibole or quartz. 1 fine anhedral yellow pyrite in composite with quartz-chlorite.
-traces of orange and pink garnet fragments and rare pellets, several shades of orange garnet, traces of bright orange population of partially preserved euhedral crystals, 1 angular fresh-faced fragment of potential orange eclogite, occasional clear yellow spessartine?
- good tenor of fragments of black metallic and silicate grains most are slag, traces of sharp angular black shiny ilmenite some in composite with quartz or yellow amphibole.
-2 chromite/ picroilmenite candidates, 1 small pellet 0.5 mm, 1 larger slight worn pellet fragment with no shagreen.
-5 dull grey shapeless metallic grains, could be slag related.
-1 fragment clear-green clinopyroxene, could be augite or Cr amphibole.
-1 frosted yellow olivine, very slight erosion etching.

Summary: small kimberlite mineral population with some erosional evidence of migration from source. Good tenor of pyrite from local source.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: Kirkland Lake, Ontario

Sample Number: 1-d-1
Date: October 14, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	→	7.8 g	0.3 g	8.1 g
Non Magnetic Conc. Specific Gravity: 3	--	→	15.7 g	NP	15.7 g
Total Weight of Conc.	--	→	23.5 g	0.3 g	23.8 g
Amount of Conc. Examined			100%		100%

-2.0 to +0.18 mm
-small concentrate, partial clay coating many grains.
-background of light yellow, white and dark amphibole, traces of waxy green amphibole?, one clear yellow + green epidote composite. Several distal limestone fragments.
-rare garnet, pink and orange, 2 <0.3 mm bright orange sub-pellets or anhedral crystals possible orange zircon.
-traces of fresh fragments of distinct brown zircon.
-1 black metallic 0.3 mm.
-some clear yellow amphiboles could be olivine.
-1 possible white olivine? micro-megacryst, good shagren preservation.
-traces of fresh faced angular concoidal cleavage black silicates as seen in Pail sample, sample 1-A-1.

Summary: No obvious kimberlite minerals. Some similarity to Pail sample.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: Kirkland Lake, Ontario

Sample Number: 1d
Date: October 15, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	→	14.9 g	14.9 g
Non Magnetic Conc. Specific Gravity: 3	--	--	→	6.0 g	6.0 g
Total Weight of Conc.	--	--	→	20.9 g	20.9 g
Amount of Conc. Examined				100%	100%

-1.0 mm
-small heavy mineral concentrate.
-abundant yellow, white and light green amphibole, clear zircon, shapeless fragments, several fragments of euhedral zircon crystals, 1 well-preserved euhedral crystal. Increase in orange and pink zircon, 1 purple zircon subhedral crystal. Weak garnet content, equal pink to orange almandine. Trace black amphibole. Some green amphibole could be clinopyroxene.
-poor metallic content, 2 black metallic pellets possible chromite, 1 euhedral octahedral crystal 0.1 mm: chromite?, trace pyrite as eroded round edged rusty grains.
-trace brown tourmaline, most shapeless round edged frements, several eroded crystals.
-1 dark green mica as seen in sample 1-A-1.

Summary: No obvious kimberlite or sulphide minerals.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: Kirkland Lake, Ontario

Sample Number: 1D-Hutch#1
Date: November 3, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.		CP	202.3 g		
Non Magnetic Conc. Specific Gravity: 3		CP	425.8 g		
Total Weight of Conc.		CP	628.1 g		
Amount of Conc. Examined			294.0 g 69%		

-1.0 to +0.18 mm
-strong tan coloured clay partially coating most grains, 1% unidentifiable.
-background of light yellow and green amphibole, lesser grey material, some waxy green Temiscamingue metasediment, rare dark green acicular peridotite rock fragments. Rare clear-yellow amphibole. Magnetic fraction contains in addition to slag and related metallics, fined dark grey diabase from local source.
-rare garnet, pink and orange almandine, possible pink zircon. No pyrope.
-rare pyrite, rare cubes, one cube in composite with yellow amphibole, most angular fragments, some rusty gossan grains.
-no black silicate.
-fragments of pink, clear and honey-brown zircon one in composite with yellow amphibole and another with ilmenite.
-traces of fresh ilmenite, most angular-shapeless anhedral crystals form immediate source, some contain inclusion of quartz, yellow amphibole, white feldspar.
-1 disc-shaped silver-metallic luster phlogopite, as seen in sample 2A.
-1 chrome diopside, shape fragment of pellet with cleavage and some outer grain surface preservation.
-10 to 15 candidates for olivine, yellow-cloudy grains well weathered, some could be yellow amphibole.
-10 to 15 chromite/ picroilmenite?, mostly chipped or fragments of pellets, good evidence of erosion, some could be black crustal ilmenite from local source.

Summary: weak KIM concentration, Cr diopside from local source, potential olivines and chromite/picroilmenite have traveled, no pyrope.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: 2AR Resample 2A site (20-30 lbs)
Date: November 15, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	NP	30.7 g	NP	30.7 g
Non Magnetic Conc. Specific Gravity: 3	--	114.2 g	120.2 g	NP	234.4 g
Total Weight of Conc.	--	114.2 g	150.9 g	NP	265.1 g
Amount of Conc. Examined		100%	100%		100%

-2.0 to +1.0 mm
-abundant rock fragments of various igneous, metavolcanic and metamorphic grains consisting of yellow, light green and brown amphiboles and feldspar, traces of Fe-carbonate grains

-1.0 to +0.18 mm
-clay coated minerals, <1% unidentifiable.
-mixture of metavolcanic and metamorphic grains.
-5 lilac pyrope, all shapeless anhedral? crystals or subpellets, 4-5 orange and red almandine which could be eclogite, abundant garnet fragments in smallest fraction.
-4-5 chromite/picroilmenite, partially preserved pellets with primary chips, good shagreen preservation on some preserved outer grain surfaces.
-fragments of black, vitreous opaque metallic, probable rutile or Ti ilmenite as seen in 1A-B-D series of samples.
-4-6 yellow to clear yellow olivine, fairly abundant yellow fragments which could be yellow amphibole or olivine. Some olivine has good preserved shagreen. One olivine with small patch of preserved kimberlite.
-fragments of yellow amphibole, some with black inclusions of rutile? or ilmenite, probable association with black, vitreous opaque-metallic (rutile?)
-1 chrome diopside, small angular fragment with well developed cleavage.
-several brown euhedral, well-preserved pyrite cubes, 1 shapeless yellow chalcopyrite, 1 quartz with fine silver-yellow pyrite different population and source than large brown cubes.
-abundant pink and orange zircon and possible similar-colours of garnet in finest fraction. Some minute well-preserved euhedral dodecahedral crystals. Traces of clear-colourless shapeless zircon.
-1 silver metallic leaf: unknown mineral.

Summary: sample has good quantities of kimberlite indicator minerals with good preservation of magmatic grain surface features suggesting source close to sample site. Sample is consistant with original 2A ton sample. Approximately 150 to 250 KIM per ton??. 2 pyrite sources in area. Rutile/ilmenite metamorphic source close to sample site.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: Kirkland Lake, Ontario

Sample Number: 2A-Hutch#1
Date: revised October 28, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	28.4 g	28.5 g	155.8 g	NP	212.7 g
Non Magnetic Conc. Specific Gravity: 3	158.5 g	88.1 g	1095.1 g	NP	1341.7
Total Weight of Conc.	186.9 g	106.6 g	1250.9 g	NP	1544.4 g
Amount of Non Mag Conc. Examined	100%	100%	360.6 g 33%		607.2 g 45%

-5.0 to +2.0 mm

-background of various grey igneous and metavolcanic/metamorphic rock fragments, white, grey, dark green waxy, fresh quartz-black amphibole. Traces of granitic fragments of white or orange feldspar + quartz + black biotite some with lime-green epidote. Traces quartz + black hornblende and quartz + yellow amphibole some with epidote.
-1 orange garnet, angular fragments from larger grain: possible eclogite garnet.
-2 chromite/ picroilmenite candidates, chipped pellets with well preserved shagreen on outer grain surfaces.
-10 rounded rusty metallic grains, possible contaminent, several similar looking pyrite grains one in composite with quartz.
-2 galena + native copper composites: man made??
-several slag grains, black spheres and one brass screw.

-2.0 to +1.0 mm

-background of various grey igneous and metavolcanic/metamorphic rock fragments, white, grey, dark green waxy, fresh quartz-black amphibole. Good tenor of quartz – Fe carbonate, some carbonated schistose sericite and chlorite grains from local shear zone. Good tenor of dark green acicular clinopyroxene rock fragments possible peridotite?. Traces of granitic fragments of white or orange feldspar + quartz + black biotite some with lime-green epidote. Traces quartz + black hornblende and quartz + yellow amphibole some with epidote. One angular silver grey aphanitic matrix with matrix supported randomly orientated golden-brown mica: lamprophyre?
-5 pyrope garnet: 1 lilac, 1 violet, 1 red, 2 orange, all broken pellets with some preservation of outer surface features.
-3 orange garnet, possible eclogite, angular fragments from larger grains.
-13 olivine, most clear to clear yellow, good preservation of shagreen surface, 1 grain with some section of preserved reaction rim or kimberlite.
-2 green clinopyroxene, possible eclogite Na-cpx?
-22 chromite/ picroilmenite candidates, most broken pellets, fresh faced with well preserved shagreen on outer grain surfaces.
-2 rutile?, black shapeless angular.
-1 dark green acicular clinopyroxene with minute orange and red garnet, possible eclogite nodule.
-5 round edge pyrite grains, rusty.
-2 fragments of euhedral-subhedral shaped dark brown zircon crystals, local source.

-1.0 to +0.18 mm

-background of yellow and black amphibole, ubiquitous anhedral to shapeless fragments of clear zircon, white feldspar.
- approximately 150 olivine, several populations: clear, clear yellow (most abundant), dark clear yellow, Shapeless fragments to well-preserved sub-pellets with good preservation of shagreen textures, several olivine with some patches of preserved reaction rim or kimberlitic material.
-35 pyrope garnet, several purple potential G10, most lilac to violet, yellow?, 20 red and orange pyrope? some could be eclogitic Mg-almandine. Many garnets are fragments of larger grains, many with some preservation of shagreen magmatic surface.
-good number of potential eclogite almandine, well –preserved pellets to fragments, orange, red, pink.
-several disc shaped books of phlogopite? mica, black-silvery metallic luster.

Page 2
Sample: 2A-HUTCH#1 continued

-+200 chromite/picroilmenite candidates, fragments, slightly chipped pellets and preserved pellets, many with well-preserved shagreen, several with some white leucoxene preserved on surface.
-5 chrome diopside, various shapes, 1 minute pellet.
-several darker green clinopyroxene and possible chrome amphibole, shapeless grains with some moderate erosion.
-traces of brown distinct zircon, one in composite with white feldspar possible pegmatite source, abundant well preserved minute euhedral dodecahedral crystals of orange and pink zircon, increase in frequency with decreasing grain size, source close.
-several pyrite populations: traces of euhedral rusty-brown pyrite cubes, traces of shapeless chalcopyrite grains, one fine silver pyrite + quartz composite.
-occasional well-preserved octahedral crystals of chromite or perovskite?
- 7 potential kimberlite or lamprophyric grains, silver-grey to dark green matrix supporting randomly orientated various sizes of brown mica.
-various rusty fragments, some slag related, some very rusty with malachite.

Summary: Coarse grained fraction of sample contains good population of kimberlite minerals with abundant evidence of short transport from source. The high tenor of megacrystic olivine is indicative of a very local source. This sample also contains a good tenor of quartz – Fe carbonatite grains and large pyrite grains from a very local shear zone.

Finer grained fraction contains abundant kimberlite minerals. Chromte/ picroilmenite are the most abundant kimberlite minerals followed by olivine and lesser amounts of pyrope garnet. Based on colours, there are several populations of olivine and pyrope garnets. The majority of kimberlite minerals have good preservation of grain shapes and magmatic features on grain surfaces indicating short transport. The abundance of olivine is indicative of a source proximal to the sample site. The abundance of pyrite and other sulphide grains and Fe-carbonate rock fragments may suggest kimberlite source close to or within shear zone. Kimberlite source is very close to this sample site.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: Kirkland Lake, Ontario

Sample Number: 2A-Hutch#2
Date: October 27, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	28.6 g	60.6 g	137.5 g	NP	226.7 g
Non Magnetic Conc. Specific Gravity: 3	216 g	501.7 g	474.6 g	NP	1192.3 g
Total Weight of Conc.	244.6 g	562.3 g	612.1 g	NP	1419.0 g
Amount of Conc. Examined	216 g 100%	501.7 g 100%	302 g 78%		1019.7 86%

-5.0 to +2.0 mm

-jig concentrate.
-various igneous, metamorphic and metasedimentary rock fragments consisting of amphiboles and quartz + feldspar, traces of dark green acicular peridotite, several Fe carbonate + quartz +/- sericite rock fragments from local shear zone. Several rusty gossan fragments of unidentifiable material. One pyrite + quartz/ carbonate composite. Uni-minerals of quartz, black amphibole, yellow amphibole.
No obvious kimberlite minerals.

-2.0 to +1.0 mm

-background of various grey igneous and metavolcanic/metamorphic rock fragments, white, grey, dark green waxy, fresh quartz-black amphibole. Good tenor of quartz – Fe carbonate, some carbonated schistose sericite and chlorite grains from local shear zone. Good tenor of dark green acicular clinopyroxene rock fragments possible peridotite?. Increase in granitic fragments of white or orange feldspar + quartz + black biotite some with lime-green epidote. Fragments of lime green epidote. Traces quartz + black hornblende and quartz + yellow amphibole some with epidote.
-1 chrome diopside, clear-green, gem quality, chipped sub-pellet with good shagreen preservation on remaining grain surface.
-5 olivine, one with 40% preserved reaction rim? or kimberlite material.
-1 red pyrope, fragment of larger grain, some erosion to edges.
-5 chromite/ picroilmenite grains, chipped pellets, good shagreen preservation.

-1.0 to +0.18 mm

-background of yellow, light green and black amphiboles, ubiquitous clear shapeless to sub pellets of zircon.
-traces of brown distinct zircon, fragments of euhedral and subhedral crystals several in composite with white feldspar: close pegmatite source?
-traces of black silicate, possible dark brown tourmaline and/or slag silicate and/or black amphibole, coarse angular fragments and/or anhedral crystals, as seen in Pail Sample.
-abundant well preserved minute euhedral dodecahedral crystals of orange and pink zircon, increase in frequency with decreasing grain size, source close. Clear zircon increasing frequency with decreasing grain size.
-+120 olivine, several populations, rare clear-colourless fosterite, abundant clear-yellow, darker cloudy yellow, fragments to well-preserved sub-pellets. 5 grains with some small patches of preserved kimberlite or reaction rim.
-+37 pyrope mostly violet to purple chipped sub pellets with good shagreen preservation some G10 candidates, one with small patch of kelyphite rim, several with calcite reaction rim, source close, several potential orange and red pyrope or Mg almandine eclogite garnet.
-very rare chromite/ picroilmenite candidates, one well-preserved pellet.
-very rare sulphides.
-3 chrome diopside

Summary: sample contains good quantities of kimberlitic pyrope and olivine. Increase in chrome diopside. Hutch#2 appears to be concentrating slightly lighter-less dense minerals. Notable lack of metallic grains such as pyrite and chromite/picroilmenite grains. Good concentration of violet to purple Mg pyrope as opposed to red and orange (Fe) pyrope. Abundance of olivine and preserved magmatic features imply very local source.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: Kirkland Lake, Ontario

Sample Number: 2B
Date: October 7, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	→	42.9 g	0.7 g	43.6 g
Non Magnetic Conc. Specific Gravity: 3	--	→	70.6 g	6.3 g	76.9 g
Total Weight of Conc.			113.5 g	7.0 g	120.5 g
Amount of Conc. Examined			100%	0%	94%

-2 to +0.18 mm
-abundant fine to medium grained metavolcanic rock fragments of quartz +white feldspar+black hornblende+/-black biotite. Fine fraction is dominated by light green, white and yellow amphiboles and waxy green amphibole?. Rare distal grey limestone and white calcareous sandstone.
-rare garnet, traces of orange and pink in finest fraction, some could be zircon.
-rare clear zircon. Small pink and orange zircon in smallest size fractions, several minute euhedral dodecahedral crystals.
-traces of clear yellow amphibole in finest fractions, some could be olivine. Fairly abundant black amphiboles, fragments of all sizes.
-1 colourless megacryst olivine 1mm, well preserved shagren surface. Potential yellow olivine increasing in finest fraction.
-several +0.5 mm fragments of black (ilmenite?)to very dark brown silicate possible tourmaline.
-3 golden-brown biotite-phlogopite? mica +0.6 mm.

Summary
Sample contains one megacryst of olivine and large mica from possible kimberlite source. Some potential yellow olivine in finest fraction.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: Sample 2D
Date: November 15, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	NP	30.1 g	CP	
Non Magnetic Conc. Specific Gravity: 3	--	NP	150.3 g	CP	
Total Weight of Conc.	--	NP	180.4 g	CP	
Amount of Conc. Examined	--		100%		

-1.0 to +0.18 mm

-7 pyrope, several shapeless anhedral grains, several fragments and broken pellets, lilac and violet. Traces of orange, red-orange and pink garnets, most probable eclogite some probable metamorphic garnets, distinct red-orange population increasing numbers in smallest fraction, abundant pink some as pellets and broken pellets with shagreen on preserved faces.
- +50 chromite/ picroilmenite candidates, most primary fragments of broken pellets with good shagreen on remaining outer grain surfaces, several well-preserved pellets, some fresh faced fragments could be black-vitreous opaque metallic as seen in 1A-B-D samples: possible rutile/ Ti-ilmenite. 3 very well preserved octahedral crystals of chromite? source very close: lamprophyre?
-2 Cr diopside, large fragments of larger grains, possible gem quality.
-+50 olivine, several populations, clear, clear-yellow, cloudy yellow, some yellow could be yellow amphibole from very local source. Many of the olivine have good preservation of shagreen.
-7 hematite grains, 2 in composite with quartz, very local source.
-traces of brown euhedral pyrite as seen in other samples from this area, from very local source.
-traces of clear-colourless shapeless grains of zircon, abundant pink and orange in smallest fraction size, some well-preserved euhedral dodecahedral crystals, some could be garnet.
-2 black phlogopite mica books-pellets, 1 small, 1 large, good preservation.

Summary:
Sample contains good quantities of kimberlite minerals with good preservation of grain shapes and magmatic features suggesting very local source. There are pyrite and hematite sources very close to the sample site and a rutile-ilmenite source in area.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: Sample 2E
Date: November 20, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	NP	NP	9.9 g	NP	9.9 g
Non Magnetic Conc. Specific Gravity: 3	CP	153.5 g	56.3 g	NP	209.8
Total Weight of Conc.		153.5 g	66.2 g	NP	219.7 g
Amount of Conc. Examined		100%	100%		100%

-2.0 to + 1.0 mm

-abundant igneous rock fragments consisting of white or orange, very fine grain feldspar matrix supporting black euhedral-subhedral lath-like pyroxene/amphibole? crystals, abundant schistose Fe carbonated sericite fragments from local shear zone source, traces of dark grey-green peridotite fragments, gabbroic and metasedimentary fragments.
-5 chromite/ picroilmenite grains: 2 well-preserved slightly chipped pellets with very well-preserved shagreen on grain surface, 3 fragments: one 2.0 mm fragment from much larger grain.
-1 yellow olivine, shapeless subpellet or anhedral crystal, shagreen texture preserved over entire grain.
-5 hematite: one grain 2.0 mm in composite quartz.

-1.0 to +0.18 mm

-various metavolcanic, metamorphic, igneous rock fragments, abundant black + white aphanitic amphibole/feldspar? rock fragments, cloudy yellow amphibole, traces of Fe carbonate schistose material from local source. Occasional dark grey-green fine grained peridotite grain.
-occasional well-preserved euhedral brown pyrite cubes, several well-preserved dodecahedral crystals, local source.
-traces of hematite, rounded grains to deeply pitted ragged grains, good number in composite with quartz and Fe carbonate/ ocher stain, immediate source.
-traces of black hornblende, clear yellow amphibole some in composite with clear quartz and/or black rutile/ ilmenite? possibly very vitreous black amphibole, occasional frosted dull red to orange orange amphibole? pellet, new mineral in survey area possibly ruebeckite??.
-7 pyrope, various colours: lilac, purple, red, violet, orange, shapeless subpellets to fresh faced fragments, good shagreen texture on some of the grains, largest pyrope with 60% shagreen preservation 0.9 mm, abundant orange and deep orange-red almandine, good number of pink almandine, almandine content increases with decreasing grain size some could be zircon, good number of well-preserved euhedral dodecahedral orange and pink crystals. Several fresh, angular orange eclogite? garnet, as seen in Sample 2A.
-3 Cr diopside, shapeless rounded to angular fragment of tear drop shaped grain, one small grain long-thin fragment.
- +50 chromite/ picroilmenite candidates, good number of slightly chipped pellets, many fragments, some fragments could be rutile/ilmenite as seen in 1A-C-D samples, many pellet shaped grains with patches of well-preserved shagreen, some ilmenite with patches of possible leucoxene, some weak to moderate spinel crystal growth such as fragments of well-preserved octahedrals crystal, one subhedral twinned/ multi-crystal grain.
- several small mica flakes, silvery-green chlorite? and silver-grey disks.
-7 large yellow to clear yellow olivine, some with very good shagreen or frosted surface, abundant minute angular fragments or possible clear yellow amphibole.

Summary: Sample contains good quantities of large and small fresh kimberlite minerals with well-preserved magmatic features suggesting a very close source. There is a hematite source and a pyrite source also very close to this sample site. There are rock fragments from unmetamorphosed igneous source with black pyroxene or amphibole laths in orange or white fine feldspar rich matrix.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: Sample 173 604604mE., 5335495mN. Till on Fe carbonate shear
Date: November 28, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	→	→	9.5 g	CP	
Non Magnetic Conc. Specific Gravity: 3	→	→	76.9 g	CP	
Total Weight of Conc.			86.4 g		
Amount of Conc. Examined			100 g		

-5.0 to +0.18 mm

-various igneous, metamorphic and metasedimentary rock fragments, igneous rock fragments of white fine grained feldspar matrix with euhedral-subhedral black amphibole/ pyroxene crystals, fine yellow to white to light green chloritic-sericitic metamorphic rock fragments some Fe carbonate, traces of quartz-white feldspar sandstone rock fragments some Fe carbonated similar to sandstone in vicinity to 2A site. Large uni minerals of creamy white amphibole, black amphibole, some could be pyroxene.

-traces of orange and pink garnet, minute euhedral crystals of both colours. 3 yellow spessartine two show very good cleavages-crystal growth planes.

-4 dark yellow-brown olivine, well etched grains.

-good tenor of tarnished- Fe carbonated pyrite, many cubes, good number of dodecahedral crystals, good number of twinned/ clustered crystals, some in composite with granular-carbonate quartz.

Summary: sample contains abundant pyrite probably associated with shear rock underlying the sample site. There are some euhedral spessartine garnet and possibly associated well-etched olivine which could be an unknown target of interest: lamprophyre??. Olivine is a different population than those found at the 2A site.

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Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: Sample 174 603717mE., 5335788mN. Till on road beside malachite showing

Date: December 2, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	NP	NP	7.2 g	NP	7.2 g
Non Magnetic Conc. Specific Gravity: 3	NP	NP	59.1 g	NP	59.1 g
Total Weight of Conc.			66.3 g		66.3 g
Amount of Conc. Examined			100%		100%

-1.0 to +0.18 mm
-light brown clay coating many of the grains, ~1% unidentifiable.
-background of light green, white and dull yellow metamorphic schistose grains, good tenor of black hornblende grains many in composite with quartz, frequent clear yellow amphibole many in composite with quartz and epidote, yellow amphibole content increases with decreasing grain size, traces of light green tremolite-actinolite schistose rock fragments as seen in sample 175 some contain minute-fine tarnished pyrite cubes, traces of light brown fine grain-aphanitic rounded rock fragments new to survey area from distal source.
-abundant pyrite, tarnished euhedral cubes to fresh faced yellow fragments, good tenor of cluster grains of multiple pyrite cubes many grains in composite with light green fine grained schistose-chloritic wallrock, some in composite with quartz, many coated by Fe carbonate, sample site on source. 1 minute angular chalcopyrite fragment, peacock tarnish, similar to sample 175.
-good tenor of black ilmenite-rutile, shapeless angular to rounded fragments, several showing weak hexagonal crystal growth, frequency increases with decreasing grain size, some minute fragments could be chromite/ picroilmenite. Several black cubes as seen in sample 1C.
-5 shapeless, rounded fragments of potential chromite/picroilmenite, smooth faced, no shagreen.
-good tenor of orange and pink garnet which increase in frequency with decreasing grain size, most as fragments some pellets, several euhedral well-preserved large orange crystals, traces of a minute dark orange population, traces of potential yellow garnet? or amphibole.
-several angular fragments of clear zircon, 1 minute well-preserved crystal.
-2 fragments of well-preserved euhedral brown sphene.
-4 dull yellow olivine similar to those seen in EBD sample and sample 173, less weathering-etching.

Summary: sample site is on a on a pyrite source. There are potential chromite/ picroilmenite grains from a distal source (could be crustal ilmenite) and potential yellow olivine from a local source.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: 175 603701mE., 5335805mN. Creek sample
Date: November 30, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	NP	CP	6.8 g	NP	
Non Magnetic Conc. Specific Gravity: 3	NP	CP	55.2 g	NP	
Total Weight of Conc.			62.0 g		
Amount of Conc. Examined			100%		

-1.0 to +0.18 mm

-background of dark green to dull light green amphiboles and rock fragments, grey fine grained schistose rock fragments, black amphibole, less cloudy-translucent yellow amphibole, some fresh-local source clear-yellow amphibole some in composite with quartz -/+ black amphibole +/- white feldspar +/- green epidotite.
-traces of light dull green tremolite-actinolite? fine acicular crystals weakly schistose to randomly orientated, new rock type in survey area.
-fairly abundant fresh faced – angular brown zircon? could be a vitreous pyroxene, seen in other samples described as distinctive brown zircon.
-occasional hematite grain, most in composite with fine-granular quartz, carbonated to ocher stained, source very close.
-14 chalcopyrite fragments, angular-delicate from immediate source, brown tarnished to peacock colours on grain surfaces.
-rare rounded cubes of tarnished-rusty to carbonated pyrite.
-2 fine grained chloritic siliceous calcite-carbonate with fine anhedral silver to gold coloured pyrite.
-7 chromite-picroilmenite grains, most as fresh faced fragments of larger pellets, 1 pellet, 1 partial pellet with good shagreen, 1 pellet showing weak crystal faces and good shagreen texture: source close.
-good tenor of angular-shapeless fragments of ilmenite-rutile? as seen in 1B-C-D samples, some in composite with clear yellow amphibole and/or quartz.
-traces of orange and pink almandine garnet, most as fragments, several orange euhedral crystals, occasional yellow grain which could be spessartine or yellow amphibole, 1 broken orange pellet with well preserved green kelyphite rim: possible eclogite: source close.
-1 fragment of well-preserved large euhedral brown sphene crystal as seen in sample 174.

Summary: sample contains chromite/picroilmenite from local source, two of the grains suggest very close source and is an eclogite garnet with preserved kelyphite rim suggesting very close source also. There are coarse angular chalcopyrite grains from an immediate source to the sample site. There are hematite-quartz grains from a very close source also.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: Sample 176 604457mE., 5335077mN. Till on gabbro outcrop
Date: November 26, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	NP	CP	32.2 g	CP	
Non Magnetic Conc. Specific Gravity: 3	NP	CP	51.1 g	CP	
Total Weight of Conc.			83.3 g		
Amount of Conc. Examined			100%		

-1.0 to +0.18 mm
-thick clay coating on majority of grains, ~1-3% unidentifiable.
-abundant metavolcanic, metamorphic and igneous rock fragments, yellow green and black amphiboles, some igneous rock composed of black amphibole/ pyroxene? in composite with white feldspar, traces of quartz + brown mica + black amphibole rock fragments.
-traces of clear yellow amphibole, common mineral in area, some in composite with quartz, white amphibole, black vitreous ilmenite?, traces of light green epidote some in composite with quartz and/or clear yellow amphibole.
-5 yellow chalcopyrite, shapeless angular-delicate grains from very close source, traces of tarnished-rusty pyrite some eroded cubes some rounded, 2 euhedral well-preserved black cubic crystals as seen in Sample 1C possible perovskite?.
-occasional light brown-grey sphene, fragments to nearly complete euhedral-subhedral crystals, new mineral in survey area.
-traces of orange and pink garnet, dark orange population, several dodecahedral crystals in both colours, some minute pink fragments could be zircon. 1 yellow spessartine fragment.
-1 Cr diopside, sausage shaped grain or subpellet, frosted surface, possible close source.
-traces of minute black metallic opaques, no obvious chromite or picroilmenite, no megacrysts.

Summary: there is chalcopyrite mineralization close to this sample site. Brown sphene is sometimes associated with lamprophyre. 1 Cr diopside from possible close source.

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Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: 178 603855mE, 5335185mN
Date: November 21, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	CP	CP	26.8 g	CP	
Non Magnetic Conc. Specific Gravity: 3	CP	CP	59.2 g	CP	
Total Weight of Conc.			86.0 g		
Amount of Conc. Examined			100%		

+5.0 mm
-abundant Fe carbonated quartz-sericite rock fragments from shear zone situated under sample site. Rock sample taken.

-1.0 to +0.18 mm
-yellow clay partially coating most grains, >0.5% unidentifiable.
-background of metavolcanic and igneous rock fragments, moderate tenor of black amphibole as seen in some white igneous rock fragments. Several Fe carbonate grains from local shear.
-2 pyrope garnet, one purple flat smooth-faced pellet, one flat lilac shapeless sub-pellet with small patch of calcite?, traces of orange and pink metamorphic almandine some pellets some euhedral to subhedral crystals.
-6 chromite/picroilmenite candidates, two are large ~1mm broken smooth-faced pellets, one fragment with patchy shagreen, fairly abundant minute black metallics which could be a distinct population of chromite-ilmenite?, several black vitreous rutile-ilmenite candidates several in composite with yellow amphibole as seen in 1A-B-C-D samples.
-traces of yellow amphibole (non kimberlitic), 3 clear green amphibole fragments eroded with prominent cleavage possible Cr amphibole?
-3 large clear yellow olivine one with subtle crystal growth from possible local source, 2 cloudy yellow olivine well etched possible transport? or very local source, fairly abundant minute clear yellow grains similar in frequency to small minute black metallics, some or all could be yellow amphibole fragments.
-traces of brown coated euhedral pyrite cubes similar to 2A sample, several black euhedral cubes similar to 1C sample.
-traces of minute pink zircon fragments, two brown angular fragments of distinct zircon type as seen in 2A sample.
-several slightly eroded shapeless grey hematite grains.

Summary: sample site is on an east-west trending shear zone which may be a potential gold target. The sample site is also immediately south of a small pond situated over a strong magnetic low situated at new grid coordinate L.20E 11+50N. There are gabbro outcrops on the east shore of the pond. This sample contains several kimberlite minerals including olivine. The sample site also sits directly up-ice from the 2A kim anomaly and maybe contributing minerals to the 2A anomaly. There is a lack of magmatic features on the grain surfaces to suggest there is some difference to the kimberlite minerals found in the vicinity to the 2A sample site and with the minerals found at this site possibly indicating a different source, however, this is merely interpretation. There may be more similarity to the KIM's at the 1A-B-C-D sites.

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Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: Kirkland Lake, Ontario

Sample Number: A-1
Date: October 12, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	→	11.3 g	1.3 g	12.6 g
Non Magnetic Conc. Specific Gravity: 3	--	→	41.3 g	NP	41.3 g
Total Weight of Conc.	--		52. 6 g	1.3 g	53.9 g
Amount of Conc. Examined	--		100%		100%

-2 to +0.18 mm
-brown clay coating on many grains, ~1% unidentifiable.
-various igneous, metavolcanic and metamorphic rock fragments: andesite, basalt, diabase, quartz + black hornblende, quartz-feldspar-biotite, rare waxy green amphibole, rare distal limestone.
-traces of black metallic and silicate angular fragments of potential chromite, ilmenite, hornblende and rutile. Most not coated in clay suggesting local source?
-potential slag?, several black spheres.
-rare clinopyroxene, 4 small glassy light green grains in small fraction, non-clay coated.
-garnet population restricted to smallest fraction. Orange and pink almandine, some brighter orange non-clay coated, broken slightly worn pellets or anhedral crystals.
-no pyrite, clear zircon pelleys or distinct euhedral brown zircons as seen in PAIL sample.
-rare yellow amphibole in finest fraction, some could be clear yellow olivine.

Summary: No obvious kimberlite minerals. Non clay coated black metallic and silicate grains, orange garnets, green cpx and yellow amphibole/olivine? could be eroding from a local source.

Heavy Mineral Concentrate Sheet
Sample Number: **C2-1**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: January 2, 2007
Examined by: R. Dillman UTM: 603985mE **5334425mN**

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	2.3 g	--	2.3 g
Non Magnetic Conc. Specific Gravity: 3	--	--	8.8 g	--	8.8 g
Total Weight of Conc.	--	--	11.1 g	--	11.1 g
Amount of Conc. Examined	--	--	8.8 g	--	8.8 g

-1.0 to +0.18 mm
-thick brown clay coating most grains, small concentrate.
-abundant white, yellow and light green amphiboles, metamorphic-schistose rock fragments, carbonated, fragments of green epidote, yellow and black amphibole.
-trace garnet, orange and pink almandine, several small pellets.
-trace shiny black metallics believed to be rutile fragments.
-trace rusty round pyrite grains, several cubes.

Summary: No KIM's

Heavy Mineral Concentrate Sheet
Sample Number: **C2-2**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: January 2, 2007
Examined by: R. Dillman UTM: 603902mE 5334420mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	4.7 g	--	4.7 g
Non Magnetic Conc. Specific Gravity: 3	--	--	10.5 g	--	10.5 g
Total Weight of Conc.	--	--	15.1 g	--	15.1 g
Amount of Conc. Examined	--	--	10.5 g	--	10.5 g

-1.0 to +0.18 mm
-thick brown clay coating most grains.
-abundant white, yellow and light green amphiboles, metamorphic-schistose rock fragments, carbonated, fragments of green epidote, yellow and black amphibole, red jasper fragments.
-trace garnet, orange and pink almandine, several small pellets.
-trace shiny black metallics believed to be rutile fragments.
-trace rusty round pyrite grains, several cubes.

Summary: No KIM's

Heavy Mineral Concentrate Sheet
Sample Number: **C2-3**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: January 3, 2007
Examined by: R. Dillman UTM: 604324mE, 5334918mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	7.3 g	--	7.3 g
Non Magnetic Conc. Specific Gravity: 3	--	--	19.3 g	--	19.3 g
Total Weight of Conc.	--	--	26.6 g	--	26.6 g
Amount of Conc. Examined	--	--	19.3 g	--	19.3 g

-1.0 to +0.18 mm
-abundant white, yellow and light green amphiboles, carbonated metamorphic-schistose rock fragments, fragments of green epidote, abundant yellow and black amphibole some could be pyroxene, red jasper fragments.
-increase in garnet, orange and pink almandine, many small pink pellets, several orange pellets could be eclogite.
-trace shiny black metallics believed to be rutile fragments.
-abundant pyrite, brown cubes, well-preserved twinned crystals rusty round pyrite grains, several cubes, several yellow fragments.
- 7-8 clear yellow olivine broken pellets and fragments, fresh, as seen in SSP sample, good shagreen on two large grains 0.8 mm.
-4 lilac pyrope, all broken pellets, small <0.5 mm, one with black inclusion.
-1- 0.7 mm chrome diopside pellet, worn or good shagreen.
- 11 chromite/picroilmenite various fragments of pellets, some patchy shagreen preservation, largest grain 0.6 mm.

Summary: Good KIM content, large olivine with shagreen. Local KIM source.

Heavy Mineral Concentrate Sheet
Sample Number: **C2-4 creek**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: January 3, 2007
Examined by: R. Dillman UTM: 604464mE, 5335487mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	6.7 g	--	6.7 g
Non Magnetic Conc. Specific Gravity: 3	--	--	22.2 g	--	22.2 g
Total Weight of Conc.	--	--	28.9 g	--	28.9 g
Amount of Conc. Examined	--	--	22.2 g	--	22.2 g

-1.0 to +0.18 mm
-abundant white, yellow and light green amphiboles, carbonated metamorphic-schistose rock fragments, fragments of green epidote, abundant yellow and black amphibole some could be pyroxene, red jasper fragments.
-moderate garnet content, orange and pink almandine, many small pink pellets, 1 orange pellet could be eclogite.
-trace shiny black metallics believed to be rutile fragments 2 could be chromite/ picroilmenite.
-trace pyrite, rounded brown cubes and pellets, 1 rounded yellow pyrite, 1 tarnished chalcopyrite fragment.
-several rounded hematite grains.

Summary: No KIM's. Chalcopyrite grain similar to those seen in sample 175.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: C2-5 604226mE 5334687mN
Date: January 10, 2007
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.			1.1 g		1.1 g
Non Magnetic Conc. Specific Gravity: 3			22.1 g		22.1 g
Total Weight of Conc.			23.2 g		23.2 g
Amount of Conc. Examined			100%		100%

-1.0 to +0.18 mm
-equal amounts of green, white and cloudy yellow amphibole and clear-colourless zircon, slight increase in black amphibole and clear yellow amphibole, trace of green epidotite.
-low garnet content, most in finest fraction, pink and orange almandine, several minute euhedral crystals and pellets.
-3 lilac pyrope, largest 1.0 mm sub-pellet with some shagreen, 1 orange eclogite garnet block shaped fragment.
-1 chrome diopside, delicate lath-like grain 2.0x0.3mm, source close
-5 picroilmenite-chromite, most pellets or chipped pellets and fragments, good shagreen on outer surface, 1 well-preserved subhedral chromite octahedral crystal.
-2 olivine, yellow fragment, 1 clear-colourless with weak etching.
-several rusty-eroded pyrite.
-1 hematite.

Summary: KIM's show some evidence of local source: shagreen, pellets, delicate Cr diopside grain, octahedral chromite. Low olivine content. Low magnetite content.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: C2-6 604300mE. 5334820mN.
Date: January 10, 2007
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.			2.7 g		2.7 g
Non Magnetic Conc. Specific Gravity: 3			14.2 g		14.2 g
Total Weight of Conc.			16.9 g		16.9 g
Amount of Conc. Examined			100%		100%

-1.0 to +0.18 mm
-background of light yellow, white, grey, light green amphibole and schistose rock fragments, trace of black amphibole.
-rare garnet, orange and pink fragments, 1 minute-weathered lilac coloured pyrope.
-1 potential yellow olivine? could be clear yellow amphibole.
-5 brown mica-cluster type rock fragments, random flake orientation, one in composite with dark brown tarnished pyrite crystal showing growth striated faces, source very close to sample site.
-trace of pyrite, dark tarnish cubes.
-small concentrate

Heavy Mineral Concentrate Sheet

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8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: C2-7 Stream sample 603697mE., 5335800mN.
Date: January 7, 2007
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	NP	NP	5.5 g	NP	5.5 g
Non Magnetic Conc. Specific Gravity: 3	NP	NP	12.1 g	NP	12.1 g
Total Weight of Conc.			17.6 g		17.6 g
Amount of Conc. Examined			100%		100%

-1.0 to +0.18 mm
-high tenor of light coloured amphibole, white, grey, cloudy yellow and clear-yellow amphibole, traces of black amphibole.
-rare garnet, fragments of pink and orange almandine, 1 euhedral orange-red crystal, 1 0.4 mm orange-red pellet.
-1 subhedral chromite octahedral crystal, slightly weathered, good shagreen preservation.
-1 green clinopyroxene, clear-green fragment of lath-like crystal, worn edges.
-traces of fragments of black-shiny shapeless metallic, probably ilmenite, several in composite with clear-yellow amphibole as seen in 1B sample.
-traces of rusty pyrite cubes and yellow fragments, several eroded tarnished chalcopyrite as seen in sample 175.
-traces of hematite, worn edges to fragment.

Summary: Octahedral chromite and augite from a possible kimberlite or lamprophyre source up-stream. No olivine. Pyrite-chalcopyrite-hematite mineralization in area of sample site.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: C2-8 603809mE 5335310mN
Date: January 10, 2007
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.			1.8 g		1.8 g
Non Magnetic Conc. Specific Gravity: 3			13.4 g		13.4 g
Total Weight of Conc.			15.2 g		15.2 g
Amount of Conc. Examined			100%		100%

-1.0 to +0.18 mm
-background of white, cloudy yellow, grey and lesser amounts of black amphibole, traces of clear zircon.
-2 orange-brown zircon fragments, one is a fragment of well-preserved euhedral crystal.
-rare pyrite, 1 well-preserved twinned dodecahedral crystals.
-traces of clear-yellow amphibole.
-traces of garnet, orange and pink, traces of bright orange fragments and eroded crystals
-traces of small black shiny metallic fragments, some could be frags of picroilmenite-chromite and/or crustal ilmenite. Several with small patches of poorly-preserved shagreen?
-1 yellow olivine, moderately well-etched <0.4 mm, transport.
-1 minute Cr diopside fragment <0.3 mm, very brilliant turquoise-green, high Cr-Mg.
-1 lilac pyrope, <0.4 mm minute fragment, 1 orange eclogite? fragment.

Summary: KIM's in sample show signs of transport from target in area.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: C2-9 604297mE., 5334701mN.
Date: January 7, 2007
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	NP	CP	2.9 g	NP	2.9 g
Non Magnetic Conc. Specific Gravity: 3	NP	CP	35.2 g	NP	35.2 g
Total Weight of Conc.	NP		38.1 g	NP	38.1 g
Amount of Conc. Examined			100%		35.2 g

-1.0 to +0.18 mm

-increase in green and clear amphibole, traces of black amphibole some in composite with quartz and brown biotite, less abundant white amphiboles, occasional grains of small well-preserved clusters of clear-yellow amphibole from close source clear-yellow fragments increase with decreasing grain size.
-good tenor clear-colourless zircon all shapeless fragments of possible pellets in smallest grain size as seen in 2A sample.
-several orange amphibole? sub-pelletal/ rounded-shapeless grains as seen in 2E sample.
-very rare pyrite several cubes to rusty weathered.
-9 picroilmenite/ chromite pellets <1 mm, slightly chipped, good shagreen preserved, abundant black metal fragments of possible picroilmenite/chromite with decreasing grain size, some could be black-shiny ilmenite associate with clear-yellow amphibole, several larger ilmenite show weak crystal growth some could be rutile.
-6 pyrope, variety of colours: purple, lilac, violet, orange, honey?, all shapeless fragments or fragments of pellets with frosted surfaces. Good tenor of orange and pink almandine garnet increasing in finest fraction some pellets. Distinctive bright orange population some very well-preserve dodecahedral crystals from very close source.
-5 clear to slighty cloudy olivine, shapeless – slightly etched grains suggesting slight transport??, several smaller yellow olivine also showing some etching, possible increase in yellow olivine in finer fraction (amphibole?)
-1 very small chrome diopside, 0.2 mm cube-like fragment, shape edges.
-1 potential kimberlite fragment, delicate angular fragment 1 mm, fine dark green matrix with abundant randomly orientated golden-brown slightly zoned mica flakes: Phlogopite?, 1 potential small black chromite octahedral? crystal in matrix.

Summary: sample site is within kimberlite mineral anomaly. Good preservation of magmatic textures on picroilmenite/ chromite. Slight etching of olivine suggests source is close but some grain migration. 1 potential kimberlite fragment.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: C2-10 603594mE, 5335019mN
Date: January 10, 2007
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.			9.8 g		9.8 g
Non Magnetic Conc. Specific Gravity: 3			15.4 g		15.4 g
Total Weight of Conc.			25.2 g		25.2 g
Amount of Conc. Examined			100%		100%

-1.0 to +0.18 mm
-abundant grey and white amphiboles and similar coloured schistose rock fragments, lesser cloudy yellow and black amphibole, good tenor of clear-colourless zircon, traces of clear yellow amphibole.
-moderate garnet, orange and pink, several pink euhedral hexagonal crystals.
-1 angular edged block shaped chalcopyrite, rare rusty-weathered pyrite.
-1 fresh fragment of brown tourmaline crystal.
-5 fresh, angular edged clear-green clinopyroxene, two in composite with quartz.
-4 anhedral octahedral shaped magnetite crystals from very close source, many more in mag fraction.
-1 gold grain, block-shaped with numerous short-shape needle-like protrusions, pristine, local source.

Summary: No Kims. 1 gold grain from local mag + cpy source?. High magnetite content.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: C2-11 603798mE 5334779mN
Date: January 10, 2007
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.			NP		
Non Magnetic Conc. Specific Gravity: 3			2.1 g		
Total Weight of Conc.			2.1 g		
Amount of Conc. Examined			100%		

-1.0 to +0.18 mm
-abundant light green, yellow and white amphibole, rare darker amphibole. Some light green grains could be epidote.
-moderate garnet content, mostly orange and pink, some pellets in the smallest grain sizes, several bright-orange one in subhedral crystal form with striated faces.
-moderate tenor of clear-colourless zircon, all shapeless grains.
-trace of pyrite, most very-well preserved brown-tarnished cubes, several euhedral dodecahedral crystals, source very close.
-1 picroilmenite/chromite candidate, 1.0 mm fragment of larger pellet, some patches of well-preserved shagreen.
-small concentrate.

Summary: pyrite mineralization very close to sample site. 1 possible KIM. No olivine.

Heavy Mineral Concentrate Sheet

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Client: Goldstake Explorations Inc.
Project: McGarry Twp., Ontario

Sample Number: South of Stump Pond 604324mE., 5334918mN.
Date: November 30, 2006
Examined by: R. Dillman

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.		CP	7.5 g		
Non Magnetic Conc. Specific Gravity: 3		CP	114.9 g		
Total Weight of Conc.			122.4 g		
Amount of Conc. Examined			100%		

-1.0 to +0.18 mm

-background of light green and yellow metamorphic schistose rock fragments, some carbonated, good tenor of dark green fine grained peridotite, fairly abundant fresh black amphibole? or pyroxene showing subhedral crystal outlines and good cleavage.
-abundant pyrite, many rounded or subhedral-anhedral cubes, tarnished, many in composite with meta rock fragments and /or fine granular quartz.
-fairly abundant clear yellow amphibole, some in composite with black amphibole and/or quartz.
-occasional black angular metallic possibly ilmenite as seen with yellow amphibole in 1B-C-D samples.
-good tenor of small/minute black shapeless to anhedral to pellets metallic grains, good candidates for chromite and/or picroilmenite, fresh faces, no shagreen, several minute greyer coloured black metallics with thin white leucoxene coating: possible picroilmenite. 8 larger megacrystic chromite/picroilmenite candidates, fresh faced, anhedral crystals/ sub pellets to slightly round edged fragments.
-good tenor of clear yellow olivine, fresh, as seen in 2A samples.
- 2 Cr diopside, angular – fresh faced fragments of larger grains.
-3 large purple to lilac pyrope sub pellets +0.5 mm, partial shagreen on grain surfaces, good tenor of orange and lesser pink garnets, pellets and euhedral well-preserved crystals in both population, traces of clear yellow spessartine garnet fragments or possible yellow amphibole or olivine, traces of possible dark brown andradite? garnet, some could be perovskite.
-several reddish-orange amphibole?: riebeckite? as seen in 2E sample.
-good tenor of minute pink and orange zircon, several clear fragments of euhedral crystals.

Summary: sample has good population of olivine from very close source but there is a noticeable decrease in frequency and textural differences in potential chromite/picroilmenite candidates, lack of these grains and lack of shagreen textures on grain surfaces suggest a different source than the coarse chromite/picroilmenite population found at the 2A site situated down-ice. Shear related pyrite sources in immediate area.

Heavy Mineral Concentrate Sheet
Sample Number: **WP-1**
Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: June 10, 2007
Examined by: R. Dillman UTM: 604436mE, 5334928mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	7.1 g	--	7.1 g
Non Magnetic Conc. Specific Gravity: 3	--	--	33.4 g	--	33.4 g
Total Weight of Conc.	--	--	40.5 g	--	40.5 g
Amount of Conc. Examined	--	--	33.4 g	--	33.4 g

-1.0 to +0.18 mm:
-equal concentrations of light and dark green, black, yellow and white amphiboles and metavolcanic and metamorphosed fragments containing black hornblende, epidotite.
-traces of brown carbonate coated grains, rusty pyrite cubes, eroded cubes and twinned crystals, local source, several yellow pyrite fragments, several black euhedral cubes.
-2 hematite + quartz grains.
-rare garnet, mostly pink almandine, several pellets, rare orange almandine, 1 red fragment.
-4 clear yellow and yellow olivine, 1 grain 0.8 mm diameter with moderate shagreen, one smaller with same, 2 fragments.
-3 chromite/picroilmenite, all shapeless fragments.

Summary: no strong distance indicators preserved, olivine most abundant KIM.

Heavy Mineral Concentrate Sheet
Sample Number: **WP-2**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: June 10, 2007
Examined by: R. Dillman UTM: 604761mE, 5335070mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	1.7 g	--	1.7 g
Non Magnetic Conc. Specific Gravity: 3	--	--	13.9 g	--	13.9 g
Total Weight of Conc.	--	--	15.6 g	--	15.6 g
Amount of Conc. Examined	--	--	13.9 g	--	13.9 g

-1.0 to +0.18 mm
-small heavy mineral concentrate.
-white, yellow, light green amphibole and metamorphic, metavolcanic rock fragments, some with hornblende, most coated in brown carbonate clay.
-occasional green epidote.
-8 angular hematite + quartz grains from very local source.
-trace pyrite cubes many coated in carbonate.
-1 potential chrome diopside coated in brown carbonate.
- 1 potential chromite/picroilmenite fragment.

Summary: no apparent KIM's. Local hematite-quartz source.

Heavy Mineral Concentrate Sheet
Sample Number: **WP-3**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: June 11, 2007
Examined by: R. Dillman UTM: 604900mE, 5335080mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	2.9 g	--	2.9 g
Non Magnetic Conc. Specific Gravity: 3	--	--	16.2 g	--	16.2 g
Total Weight of Conc.	--	--	19.1 g	--	19.1 g
Amount of Conc. Examined	--	--	16.2 g	--	16.2 g

-1.0 to +0.18 mm
-small concentrate.
-carbonate metamorphic and metvolcanic rock fragments, black hornblende, dark and light green amphiboles,creamy white amphibole.
-trace pyrite.
-no grains picked.

Summary: No KIM's, small sample.

Heavy Mineral Concentrate Sheet
Sample Number: **WP-4**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: June 11, 2007
Examined by: R. Dillman UTM: 604609mE, 5334890mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	5.5 g	--	5.5 g
Non Magnetic Conc. Specific Gravity: 3	--	--	25.4 g	--	25.4 g
Total Weight of Conc.	--	--	29.9 g	--	29.9 g
Amount of Conc. Examined	--	--	25.4 g	--	25.4 g

-2.0 to +1.0 mm
-2 brown mica books, +1.0 cm diameter.

-1.0 to +0.18 mm
-white, yellow, light and dark green amphibole, metamorphic and metavolcanic rock fragments, epidote, red jasper, carbonate grains.
-most grains clay coated
-rare garnet, several pink fragments, euhedral crystals and pellets several orange pellets and fragments.
-1 lilac pyrope fragment.
-angular yellow olivine fragment.
-6 chrome/picroilmeniite, partial pellets to shapeless fragments, possible shagreen on 0.7 mm grain. Most clay coated.
-traces of brown pyrite pellets and eroded cubes, several black euhedral cubes.

Summary: Olivine grain appears worn or good shagreen?. Pyrope fragment, delicate large mica. Quartz + pyrite rock fragment in +5 cm fraction: rock sample MC-16.

Heavy Mineral Concentrate Sheet
Sample Number: **WP-5**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: June 13, 2007
Examined by: R. Dillman UTM: 604373mE, 5334859mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	1.4 g	--	
Non Magnetic Conc. Specific Gravity: 3	--	--	2.7 g	--	
Total Weight of Conc.	--	--	5.1 g	--	
Amount of Conc. Examined	--	--	2.7 g	--	

-1.0 to +0.18 mm
-small heavy mineral concentrate.
-thick clay on most grains.
-1 lilac pyrope well-preserved pellet 0.5 mm, 1 orange eclogite? fragment of pellet.
-4 chromite/picroilmenite, several pellets, one 0.7 mm with good shagreen, 1 fragment with shagreen patch.

Summary: good KIM count for size of sample. Good shagreen. Several pellets.

Heavy Mineral Concentrate Sheet
Sample Number: **WP-6**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: June 14, 2007
Examined by: R. Dillman UTM: 604521mE, 5334979mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	10.1 g	--	10.1 g
Non Magnetic Conc. Specific Gravity: 3	--	--	69.9 g	--	69.9 g
Total Weight of Conc.	--	--	80.0 g	--	80.0 g
Amount of Conc. Examined	--	--	69.9 g	--	69.9 g

-1.0 to +0.18 mm
-typical light and dark green, black, white and yellow amphiboles, metamorphic and metavolcanic rock fragments, epidote.
-slight increase in garnet, orange almandine fragments, some pink and orange euhedral crystals, several dark orange pellets could be eclogite.
-1 brown biotite book similar to WP-4.
-1 large cloudy green chrome diopside pellet 0.8 mm diameter.
-8 to 10 chromite/picroilmenite fragments, some could be rutile.
-5 yellow and clear olivine fragments.
-good brown pyrite content, 1%, cubes, twinned crystals, shapeless grains and rusty pellets.
-trace hematite some with quartz.

Summary: increase in sulphides, some worn KIM's, possibly olivine fragments.

Heavy Mineral Concentrate Sheet
Sample Number: **WP-7**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: June 13, 2007
Examined by: R. Dillman UTM: 604922mE, 5335713mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	3.1 g	--	3.1 g
Non Magnetic Conc. Specific Gravity: 3	--	--	30.7 g	--	30.7 g
Total Weight of Conc.	--	--	33.8 g	--	33.8 g
Amount of Conc. Examined	--	--	30.7 g	--	30.7 g

-1.0 to +0.18 mm
-abundant light coloured amphiboles, light and dark green, yellow and black amphiboles, green epidotite, red jasper fragments, metamorphic and metavolcanic rock fragments.
-rusty clay coating on many grains.
-3 yellow olivine fragments, possible yellow amphibole.
- trace to 1% fresh magnetic cubes and rounded grains from local source.
-1% brown pyrite as cubes, twinned crystals, rounded grains, local source.
- 4 chromite/picroilmenite, 1 pellet, weak shagreen, could be rutile also.
- trace garnet, pink and orange, some pellets and euhedral crystals, mostly fragments, all almandine, 3 dark orange could be eclogite.
-traces of hematite.

Summary: no obvious KIM's, chromite/ilmenite could be rutile, magnetite source close to sample site.

Heavy Mineral Concentrate Sheet
Sample Number: **WP-8**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: June 14, 2007
Examined by: R. Dillman UTM: 605174mE, 5335413mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	1.6 g	--	1.6 g
Non Magnetic Conc. Specific Gravity: 3	--	--	8.4 g	--	8.4 g
Total Weight of Conc.	--	--	10.0 g	--	10.0 g
Amount of Conc. Examined	--	--	8.4 g	--	8.4 g

-1.0 to +0.18 mm
-small concentrate.
-thick, rusty clay coating on most grains.
-higher tenor of black and white amphiboles, light green and yellow amphibole, metamorphic and metavolcanic rock fragments.
-trace of hematite, pyrite some cubes.
-trace garnet, orange and pink almandine, some euhedral crystals and pellets, several darker orange could be eclogite.
-2 chrome/picroilmenite, shapeless fragments, no shagreen texture.

Summary: small concentrate, rusty. No obvious KIM's.

Heavy Mineral Concentrate Sheet
Sample Number: **WP-9**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: June 15, 2007
Examined by: R. Dillman UTM: 604544mE, 5335556mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	11.7 g	--	11.7 g
Non Magnetic Conc. Specific Gravity: 3	--	--	25.5 g	--	25.5 g
Total Weight of Conc.	--	--	37.2 g	--	37.2 g
Amount of Conc. Examined	--	--	25.5 g	--	25.5 g

-1.0 to +0.18 mm
-good tenor of white to grey amphibole some in composite with epidote, abundant black amphibole, lesser light and dark green.
-trace garnet, mostly pink, some euhedral crystals, rare orange garnet, 1 dark pellet could be eclogite.
-trace-1% pyrite, cubes, twinned crystals, rusty-rounded grains, traces of black cubes from local source.
-trace hematite, several with quartz.
-trace rutile? mostly shiny-black fragments, some could be chromite/picroilmenite.
-1 chrome diopside, small fragment 0.3mm.

Summary: 1 chrome diopside fragment unknown distance to source. Abundant pyrite and black cubic mineral from local source.

Heavy Mineral Concentrate Sheet
Sample Number: **WP-10**

Client: **Goldstake Explorations Inc.**
Project: McGarry Twp., Ontario

Arjadee Prospecting
8901 Reily Drive
Mt. Brydges, Ontario
Canada N0L 1W0
Phone/Fax 519-264-9278

Date: June 15, 2007
Examined by: R. Dillman UTM: 605363mE, 5336778mN

Size Fraction	-5 to +2 mm	-2 to +1 mm	-1 to +0.18 mm	-0.18 mm	Total Weight
Magnetic Conc.	--	--	3.4 g	--	3.4 g
Non Magnetic Conc. Specific Gravity: 3	--	--	25.6 g	--	25.6 g
Total Weight of Conc.	--	--	29.0 g	--	29.0 g
Amount of Conc. Examined	--	--	25.6 g	--	25.6 g

+5 cm
-numerous white quartz fragments.
-metavolcanic rock fragments with pyrite, rock sample MC-5.
-1.0 to +0.18 mm
-abundant white and grey amphibole some rusty some in composite with fine pyrite, lesser dark amphiboles, yellow amphiboles, metavolcanic and metavolcanic rock fragments some with fine pyrite.
-traces of shiny black metallic mineral probably rutile fragments, some ilmenite, 4 possible chromite/picroilmenite fragments.
-traces of garnet, slight increase in pink garnet, pellets and fragments, lesser orange several euhedral crystals.
-1 to 2% pyrite from outcrop under sample site, fine anhedral grains, some euhedral cubes, several yellow fragments.
-1 potential olivine fragment, could be amphibole.

Summary: pyrite mineralization in metavolcanic outcrop under sample site, rock sample MC-5. No KIM's.

PYROPE, GOLDSTAKE, SAMPLE 2A, November 3 2006, R.L.B.

	1	2	3	4	5	6	7	8
SIO2	41.40	40.57	41.69	41.79	40.87	41.94	41.81	41.36
TIO2	.45	.07	.21	.00	.39	.20	.00	.17
A2O3	18.69	20.85	19.47	22.04	17.89	22.13	22.50	19.14
C2O3	7.01	2.94	5.97	3.65	8.19	3.30	3.41	7.01
FEO	5.95	15.21	7.01	7.52	7.25	7.58	6.87	6.17
MGO	20.48	13.33	18.95	18.95	18.22	19.96	19.94	20.39
MNO	.24	.83	.37	.47	.60	.44	.46	.31
CAO	5.53	6.54	6.12	5.39	6.33	4.87	5.34	5.61
SUM	99.75	100.34	99.79	99.81	99.74	100.42	100.33	100.16

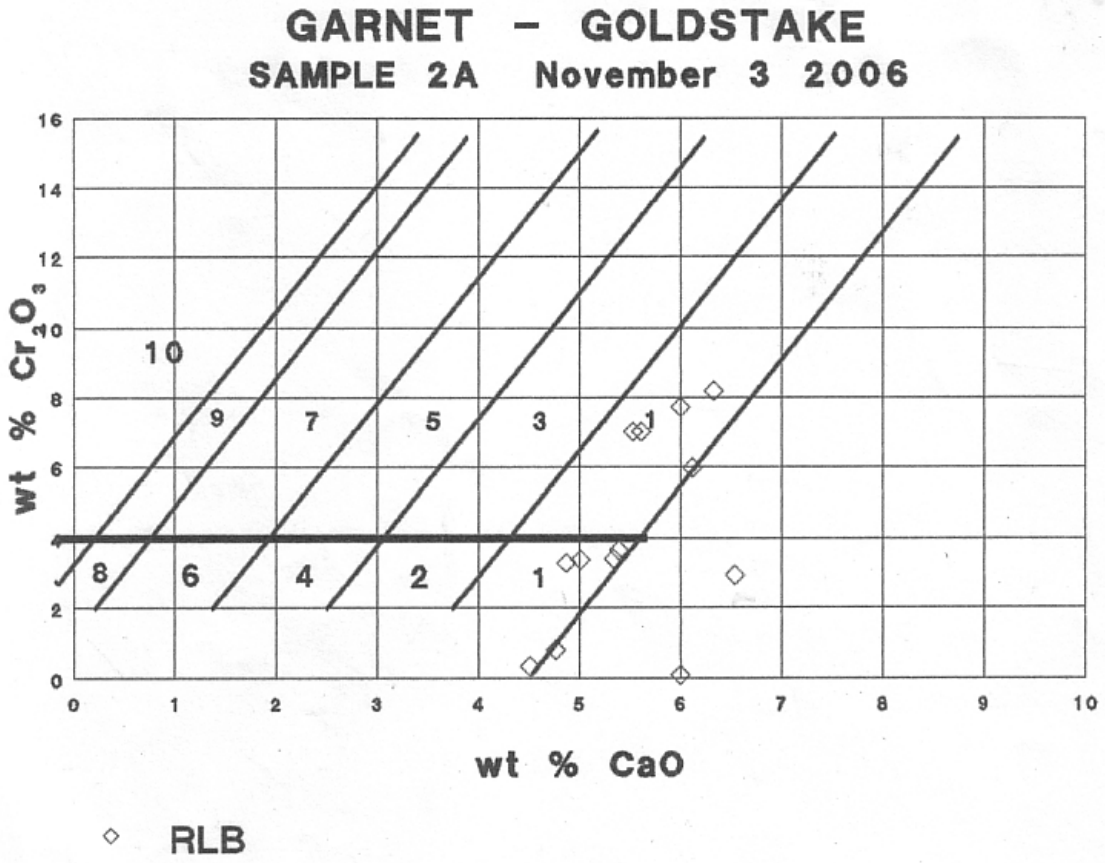
SI	5.969	*		6.014	*		6.021	*		5.985	*		5.974	*		5.959	*		5.937	*		5.945	*	
AL	.031	6.000		.000	6.014		.000	6.021		.015	6.000		.026	6.000		.041	6.000		.063	6.000		.055	6.000	
AL	3.144	*		3.642	*		3.313	*		3.704	*		3.056	*		3.665	*		3.701	*		3.188	*	
TI	.049	*		.008	*		.023	*		.000	*		.043	*		.021	*		.000	*		.018	*	
CR	.799	*		.345	*		.682	*		.413	*		.947	*		.371	*		.383	*		.797	*	
FE	.717	*		1.886	*		.847	*		.901	*		.886	*		.901	*		.816	*		.742	*	
MN	.029	*		.104	*		.045	*		.057	*		.074	*		.053	*		.055	*		.038	*	
MG	4.401	*		2.945	*		4.079	*		4.045	*		3.970	*		4.227	*		4.220	*		4.369	*	
CA	.854	9.994		1.039	9.968		.947	9.936		.827	9.947		.991	9.967		.741	9.979		.812	9.988		.864	10.015	
O	24.000	*		24.000	*		24.000	*		24.000	*		24.000	*		24.000	*		24.000	*		24.000	*	
	F/M	.170			.676			.219			.237			.242			.226			.206			.178		
	F/FM	.145			.403			.179			.191			.195			.184			.171			.151		

1 PYR 1
2 PYR 5
3 PYR 6
4 PYR 7
5 PYR 8
6 PYR 10
7 PYR 12
8 PYR 14

PYROPE, GOLDSTAKE, SAMPLE 2A, November 3 2006, R.L.B.

	9		10	
SIO2	41.54		41.79	
TIO2	.54		.00	
A2O3	18.43		22.53	
C2O3	7.73		3.39	
FEO	6.02		7.13	
MGO	19.95		19.56	
MNO	.32		.50	
CAO	6.00		5.01	
SUM	100.53		99.91	
SI	5.966	*	5.958	*
AL	.034	6.000	.042	6.000
AL	3.085	*	3.743	*
TI	.058	*	.000	*
CR	.878	*	.382	*
FE	.723	*	.850	*
MN	.039	*	.060	*
MG	4.270	*	4.156	*
CA	.923	9.976	.765	9.957
O	24.000	*	24.000	*
	F/M	.178		.219
	F/FM	.151		.180

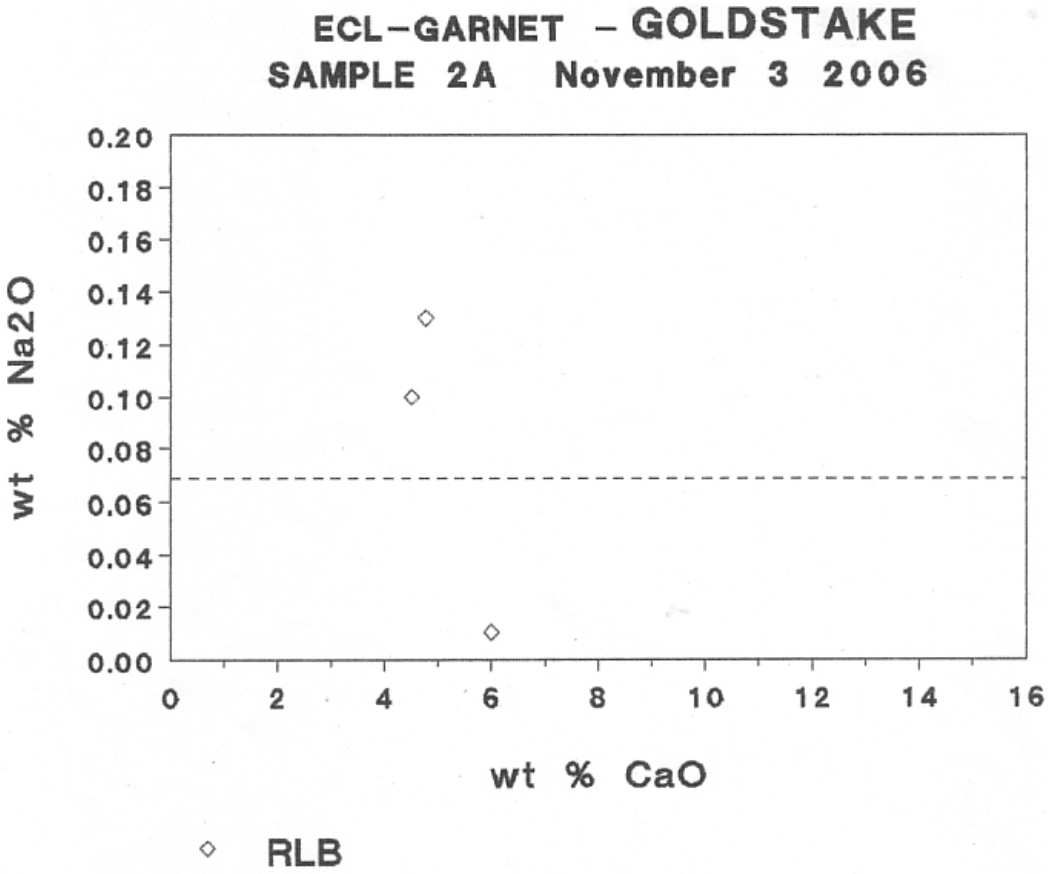
9 PYR 15
10 PYR 17

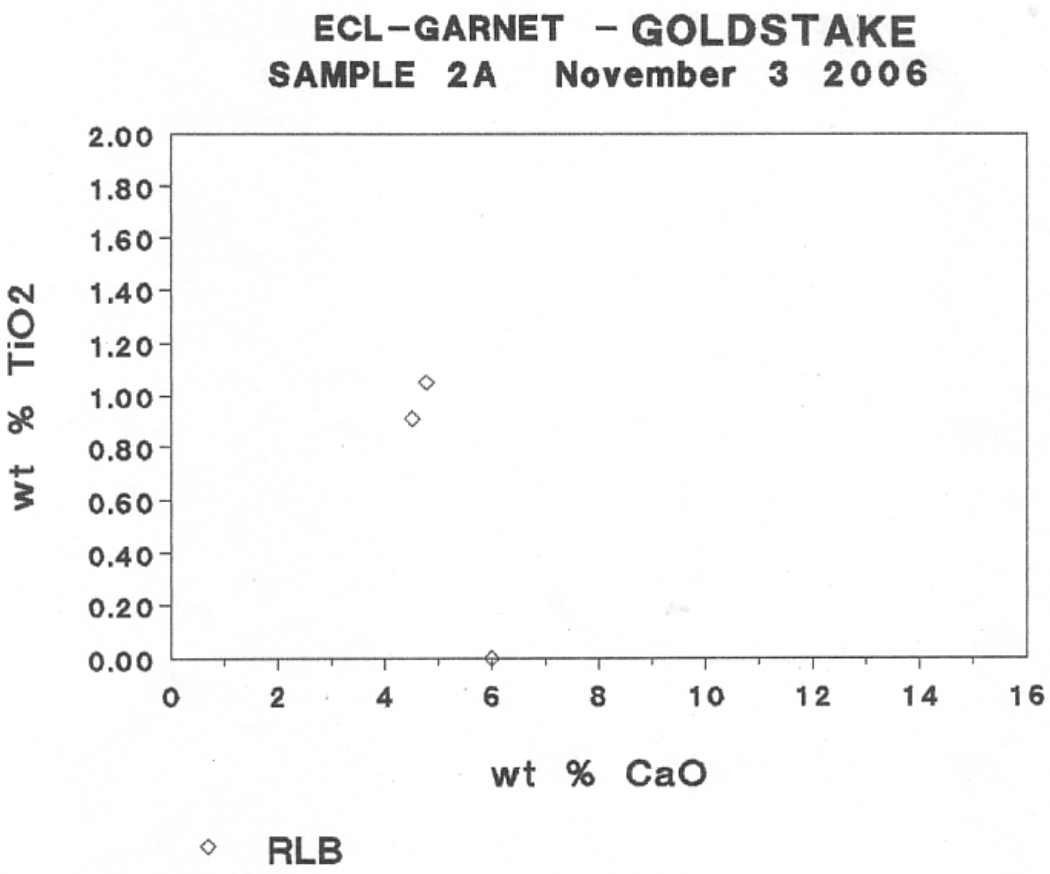

GARNET – GOLDSTAKE
SAMPLE 2A November 3 2006
wt % Cr_2O_3
wt % CaO
10
9
8
7
6
5
4
3
2
1
1
RLB

ECL-GARNET, GOLDSTAKE, SAMPLE 2A, November 3 2006, R.L.B.

	1		2		3	
SIO2	41.90		41.57		41.59	
TIO2	1.05		.00		.91	
A2O3	22.39		24.41		22.72	
C2O3	.82		.10		.35	
FEO	9.71		11.06		10.83	
MGO	19.13		16.82		18.95	
MNO	.36		.19		.41	
CAO	4.77		6.00		4.51	
NA2O	.13		.01		.10	
SUM	100.26		100.16		100.37	
SI	5.982	*	5.962	*	5.952	*
AL	.018	6.000	.038	6.000	.048	6.000
AL	3.748	*	4.087	*	3.783	*
TI	.113	*	.000	*	.098	*
CR	.093	*	.011	*	.040	*
FE	1.159	*	1.327	*	1.296	*
MN	.044	*	.023	*	.050	*
MG	4.071	*	3.596	*	4.042	*
CA	.730	*	.922	*	.691	*
NA	.036	9.992	.003	9.969	.028	10.027
O	24.000	*	24.000	*	24.000	*
	F/M	.295		.375		.333
	F/FM	.228		.273		.250

1 ECL 11
2 ECL 13
3 ECL 16


ECL-GARNET - GOLDSTAKE
SAMPLE 2A November 3 2006
wt % Na2O
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
2
4
6
8
10
12
14
16
wt % CaO
RLB

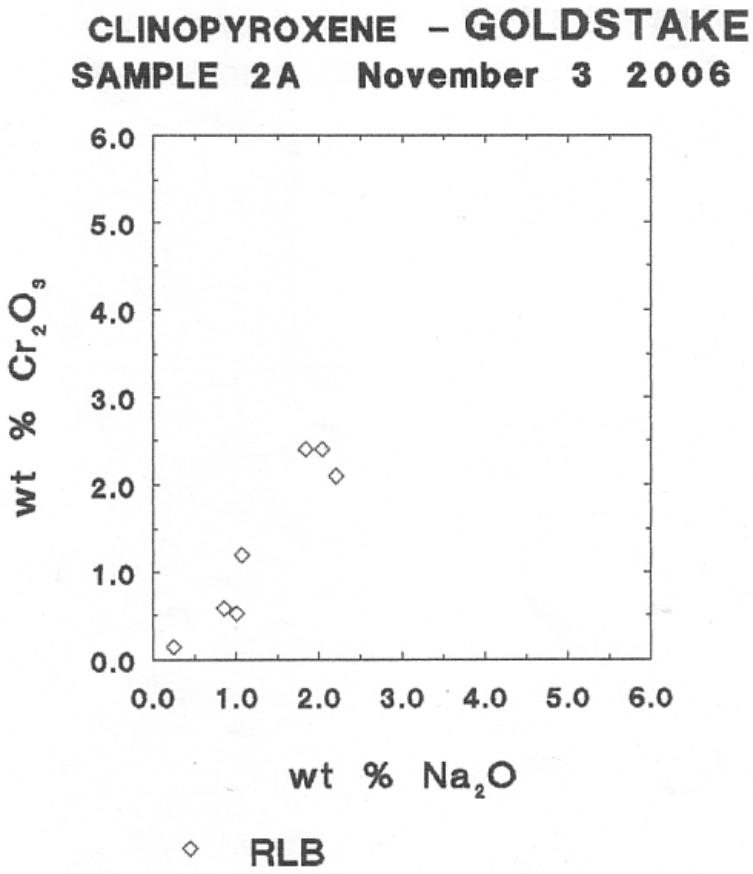

ECL-GARNET - GOLDSTAKE
SAMPLE 2A November 3 2006
wt % TiO2
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
2
4
6
8
10
12
14
16
wt % CaO
RLB

CLINOPYROXENE, GOLDSTAKE, SAMPLE 2A, November 3 2006, R.L.B.

	1	2	3	4	5	6	7
SIO2	54.89	54.91	54.88	54.57	54.28	55.12	53.50
TIO2	.06	.05	.15	.07	.12	.01	.18
A2O3	1.60	2.79	1.07	1.27	1.47	1.41	1.04
C2O3	.52	2.10	2.40	.58	2.40	1.20	.14
FEO	1.76	1.83	2.51	2.60	2.08	1.47	3.68
MGO	16.81	14.97	16.45	16.78	15.62	16.56	17.16
MNO	.09	.18	.14	.15	.10	.14	.16
CAO	23.41	21.45	20.82	23.47	21.84	23.55	24.00
K2O	.02	.01	.03	.02	.02	.01	.04
NA2O	1.01	2.21	1.84	.86	2.04	1.07	.25
SUM	100.17	100.50	100.29	100.37	99.97	100.54	100.15

SI	1.984	*	1.979	*	1.989	*	1.979	*	1.978	*	1.987	*	1.957	*
AL	.016	2.000	.021	2.000	.011	2.000	.021	2.000	.022	2.000	.013	2.000	.043	2.000
AL	.052	*	.098	*	.034	*	.033	*	.041	*	.046	*	.002	*
TI	.002	*	.001	*	.004	*	.002	*	.003	*	.000	*	.005	*
CR	.015	*	.060	*	.069	*	.017	*	.069	*	.034	*	.004	*
FE	.053	*	.055	*	.076	*	.079	*	.063	*	.044	*	.113	*
MG	.906	*	.804	*	.889	*	.907	*	.848	*	.890	*	.935	*
MN	.003	*	.005	*	.004	*	.005	*	.003	*	.004	*	.005	*
CA	.907	*	.828	*	.808	*	.912	*	.853	*	.909	*	.940	*
NA	.071	*	.154	*	.129	*	.060	*	.144	*	.075	*	.018	*
K	.001	2.009	.000	2.007	.001	2.015	.001	2.015	.001	2.025	.000	2.004	.002	2.024
O	6.000	*	6.000	*	6.000	*	6.000	*	6.000	*	6.000	*	6.000	*
	F/M	.062		.075		.090		.092		.078		.055		.126
	F/FM	.058		.070		.083		.084		.073		.052		.112

1 CPX 1
2 CPX 2
3 CPX 3
4 CPX 4
5 CPX 5
6 CPX 6
7 UNK 4

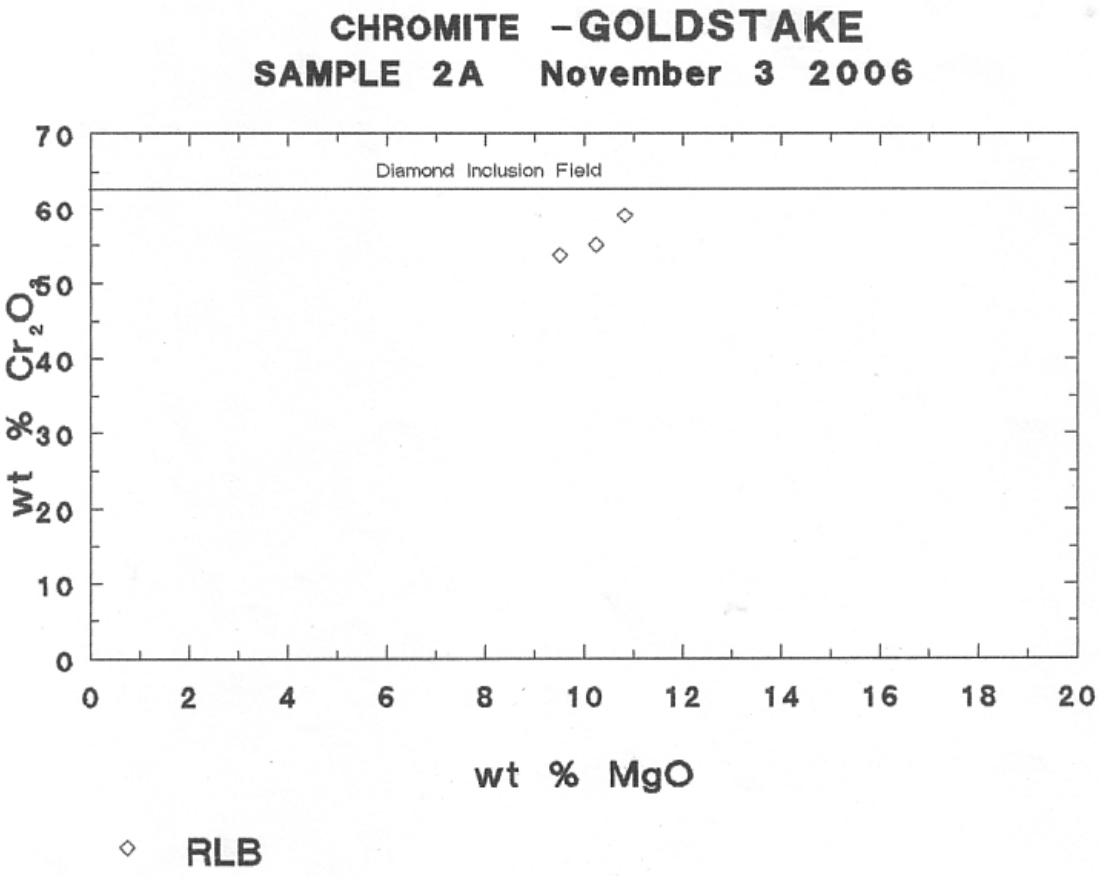

CLINOPYROXENE – GOLDSTAKE
SAMPLE 2A November 3 2006
6.0
5.0
4.0
3.0
2.0
1.0
0.0
wt % Cr_2O_3
0.0 1.0 2.0 3.0 4.0 5.0 6.0
wt % Na_2O
RLB

CHROMITE, GOLDSTAKE, SAMPLE 2A, November 3 2006, R.L.B.

	1	2	3
SIO2	.00	.00	.00
TIO2	.23	.54	.72
A2O3	13.12	13.96	9.71
C2O3	55.03	53.61	59.04
FEO	20.55	21.85	19.20
MNO	.45	.47	.45
MGO	10.24	9.51	10.82
ZNO	.00	.16	.19
NIO	.17	.23	.16
SUM	99.79	100.33	100.29

SI	.000	*	.000	*	.000	*
TI	.045	*	.106	*	.143	*
AL	4.063	*	4.307	*	3.023	*
CR	11.433	*	11.097	*	12.334	*
FE	4.516	*	4.784	*	4.243	*
MN	.100	*	.104	*	.101	*
MG	4.011	*	3.711	*	4.261	*
ZN	.000	*	.031	*	.037	*
NI	.036	24.204	.048	24.189	.034	24.176
O	32.000	*	32.000	*	32.000	*
	F/M	1.151		1.317		1.019
	F/FM	.535		.568		.505

1 CHR 4
2 CHR 6
3 CHR 15


CHROMITE - GOLDSTAKE
SAMPLE 2A November 3 2006
Diamond Inclusion Field
wt % Cr_2O_3
0
10
20
30
40
50
60
70
0
2
4
6
8
10
12
14
16
18
20
wt % MgO
RLB

ILMENITE, GOLDSTAKE, SAMPLE 2A, November 3 2006, R.L.B.

	1	2	3	4	5	6	7	8
SIO2	.00	.00	.00	.07	.00	.00	.00	.02
TIO2	53.61	53.47	54.19	54.55	52.61	50.99	49.36	54.42
A2O3	.52	.41	.47	.65	.41	.20	.17	.50
C2O3	.14	.19	.13	.09	.02	.56	.81	.04
FEO	33.86	36.17	34.60	34.11	37.28	39.01	40.45	33.34
MNO	.43	.37	.40	.35	.40	.44	.39	.40
MGO	10.59	9.43	10.30	10.17	9.27	8.06	7.99	10.47
ZNO	.03	.07	.01	.06	.02	.06	.00	.00
NIO	.23	.19	.19	.18	.15	.23	.21	.21
N2O5	.06	.13	.15	.15	.16	.34	.32	.07
SUM	99.47	100.43	100.44	100.38	100.32	99.89	99.70	99.47

SI	.000 *	.000 *	.000 *	.018 *	.000 *	.000 *	.000 *	.005 *
TI	10.202 *	10.185 *	10.232 *	10.273 *	10.086 *	9.949 *	9.728 *	10.320 *
AL	.155 *	.122 *	.139 *	.192 *	.123 *	.061 *	.053 *	.149 *
CR	.028 *	.038 *	.026 *	.018 *	.004 *	.115 *	.168 *	.008 *
FE	7.166 *	7.662 *	7.265 *	7.144 *	7.948 *	8.465 *	8.866 *	7.031 *
MN	.092 *	.079 *	.085 *	.074 *	.086 *	.097 *	.087 *	.085 *
MG	3.994 *	3.560 *	3.855 *	3.796 *	3.522 *	3.117 *	3.121 *	3.935 *
ZN	.006 *	.013 *	.002 *	.011 *	.004 *	.011 *	.000 *	.000 *
NI	.047 *	.039 *	.038 *	.036 *	.031 *	.048 *	.044 *	.043 *
NB	.007 21.696	.015 21.713	.017 21.660	.017 21.579	.018 21.823	.040 21.903	.038 22.105	.008 21.584
O	32.000 *	32.000 *	32.000 *	32.000 *	32.000 *	32.000 *	32.000 *	32.000 *
	F/M 1.817	2.174	1.907	1.901	2.281	2.747	2.868	1.808
	F/FM .645	.685	.656	.655	.695	.733	.741	.644

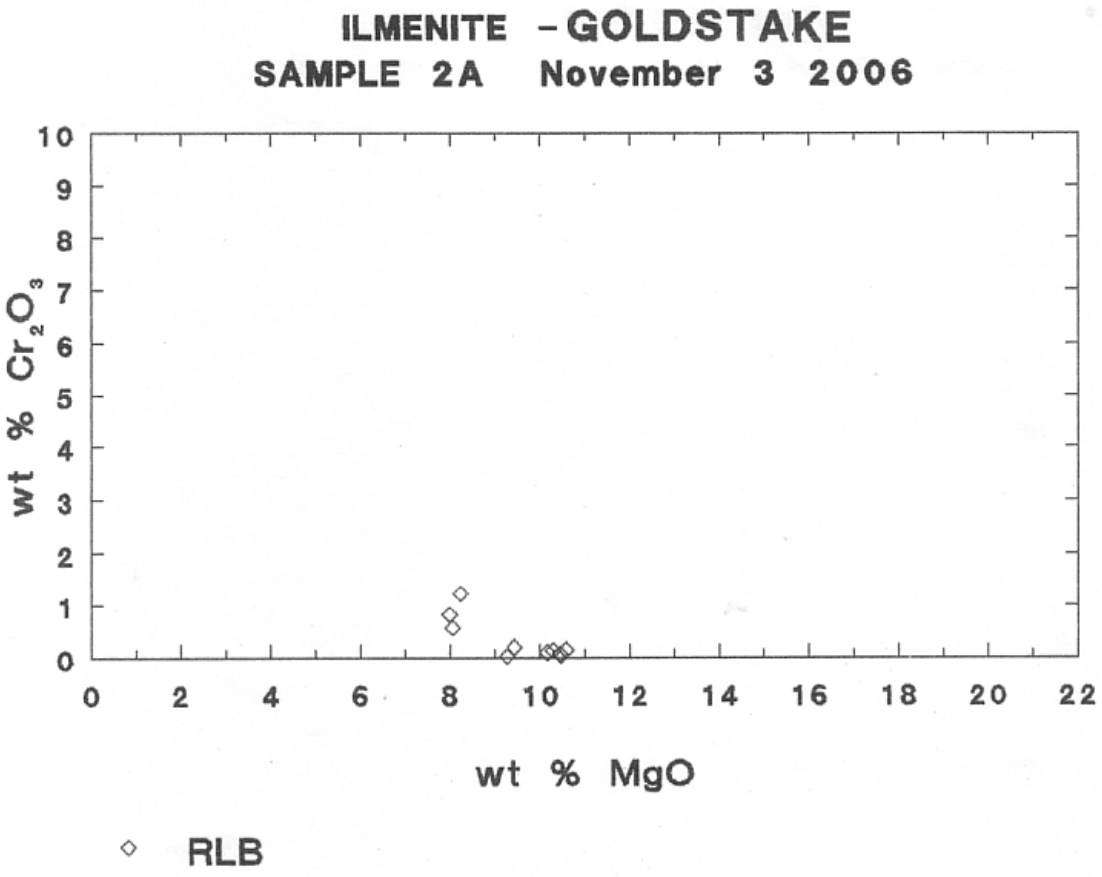
1 ILM 1
2 ILM 3
3 ILM 5
4 ILM 7
5 ILM 8
6 ILM 9
7 ILM 10
8 ILM 12

ILMENITE, GOLDSTAKE, SAMPLE 2A, November 3 2006, R.L.B.

	9	10
SIO2	.00	.02
TIO2	51.48	54.43
A2O3	.20	.45
C2O3	1.22	.07
FEO	38.29	34.10
MNO	.36	.34
MGO	8.23	10.45
ZNO	.00	.00
NIO	.18	.16
N2O5	.34	.14
SUM	100.30	100.16

SI	.000	*	.005	*
TI	9.962	*	10.277	*
AL	.061	*	.133	*
CR	.248	*	.014	*
FE	8.240	*	7.160	*
MN	.078	*	.072	*
MG	3.157	*	3.911	*
ZN	.000	*	.000	*
NI	.037	*	.032	*
NB	.040	21.824	.016	21.620
O	32.000	*	32.000	*
	F/M	2.635		1.849
	F/FM	.725		.649

9 ILM 13
10 ILM 16


ILMENITE - GOLDSTAKE
SAMPLE 2A November 3 2006
wt % Cr_2O_3
0
1
2
3
4
5
6
7
8
9
10
0
2
4
6
8
10
12
14
16
18
20
22
wt % MgO
RLB

OLIVINE, GOLDSTAKE, SAMPLE 2A, November 3 2006, R.L.B.

	1	2	3	4	5	6	7	8
SIO2	40.99	40.57	41.69	41.31	57.47	39.54	40.78	41.35
TIO2	.01	.03	.00	.00	.14	.04	.01	.00
A2O3	.00	.01	.00	.00	1.18	.00	.00	.00
C2O3	.00	.00	.00	.00	.24	.00	.00	.00
FEO	7.05	12.97	5.95	7.04	5.87	15.50	8.98	7.51
MGO	51.54	46.06	52.30	51.60	33.89	44.46	49.93	51.04
MNO	.18	.23	.11	.20	.18	.18	.21	.15
CAO	.03	.07	.02	.01	1.13	.04	.02	.03
K2O	.00	.00	.02	.02	.03	.02	.00	.02
NA2O	.01	.02	.00	.00	.26	.00	.00	.02
NIO	.30	.30	.38	.40	.13	.09	.34	.36
SUM	100.11	100.26	100.47	100.58	100.52	99.87	100.27	100.48

SI	.993	*	1.006	*	1.000	*	.996	*	1.316	*	.997	*	.995	*	.999	*
AL	.000	.993	.000	1.007	.000	1.000	.000	.996	.032	1.348	.000	.997	.000	.995	.000	.999
AL	.000	*	.000	*	.000	*	.000	*	.000	*	.000	*	.000	*	.000	*
TI	.000	*	.001	*	.000	*	.000	*	.002	*	.001	*	.000	*	.000	*
CR	.000	*	.000	*	.000	*	.000	*	.004	*	.000	*	.000	*	.000	*
FE	.143	*	.269	*	.119	*	.142	*	.112	*	.327	*	.183	*	.152	*
MN	.004	*	.005	*	.002	*	.004	*	.003	*	.004	*	.004	*	.003	*
MG	1.861	*	1.703	*	1.870	*	1.854	*	1.157	*	1.671	*	1.815	*	1.838	*
CA	.001	*	.002	*	.001	*	.000	*	.028	*	.001	*	.001	*	.001	*
K	.000	*	.000	*	.001	*	.001	*	.001	*	.001	*	.000	*	.001	*
NA	.000	*	.001	*	.000	*	.000	*	.012	*	.000	*	.000	*	.001	*
NI	.006	2.014	.006	1.986	.007	2.000	.008	2.009	.002	1.322	.002	2.006	.007	2.010	.007	2.002
O	4.000	*	4.000	*	4.000	*	4.000	*	4.000	*	4.000	*	4.000	*	4.000	*
FO	92.87		86.36		94.00		92.89		91.14		83.64		90.83		92.37	
FA	7.13		13.64		6.00		7.11		8.86		16.36		9.17		7.63	
F/M	.079		.161		.065		.079		.100		.198		.103		.084	
F/FM	.073		.139		.061		.073		.091		.165		.094		.078	

1 OLI 1
2 OLI 2
3 OLI 3
4 OLI 4
5 OLI 5
6 OLI 6
7 OLI 7
8 OLI 8

OLIVINE, GOLDSTAKE, SAMPLE 2A, November 3 2006, R.L.B.

	9	10	11
SIO2	40.72	41.16	41.23
TIO2	.01	.01	.00
A2O3	.00	.00	.00
C2O3	.00	.00	.00
FEO	8.29	9.03	6.50
MGO	50.73	49.82	52.25
MNO	.08	.20	.12
CAO	.01	.01	.03
K2O	.01	.01	.01
NA2O	.00	.00	.00
NIO	.44	.36	.39
SUM	100.29	100.60	100.53

SI	.991	*	1.000	*	.992	*
AL	.000	.991	.000	1.000	.000	.992
AL	.000	*	.000	*	.000	*
TI	.000	*	.000	*	.000	*
CR	.000	*	.000	*	.000	*
FE	.169	*	.183	*	.131	*
MN	.002	*	.004	*	.002	*
MG	1.839	*	1.804	*	1.874	*
CA	.000	*	.000	*	.001	*
K	.000	*	.000	*	.000	*
NA	.000	*	.000	*	.000	*
NI	.009	2.019	.007	2.000	.008	2.016
O	4.000	*	4.000	*	4.000	*
	FO	91.60		90.77		93.48
	FA	8.40		9.23		6.52
	F/M	.093		.104		.071
	F/FM	.085		.094		.066

9 OLI 9
10 OLI 10
11 OLI 13

December 2 2006

R.L. Barnett
Barnett Geological Consulting
9684 Longwoods Road
R.R. 32, London, Ontario
N6P 1P2
Tel: 519-652-1498

Dear Bob,

The nature and fate of the mineral grains not analyzed in this batch of grains you sent to me on November 3 2006 are detailed below.

SAMPLE 2A:

Sample Number	Grain Number	EDS identification
CHR-ILM	2	AMPHIBOLE
CHR-ILM	11	ILMENITE
CHR-ILM	14	AMPHIBOLE
PYR	2	GROSSULAR-ALMANDINE S.S.
PYR	3	GROSSULAR-ALMANDINE S.S.
PYR	4	GROSSULAR-ALMANDINE S.S.
PYR	9	GROSSULAR-ANDRADITE S.S.
OLI	11	GROSSULAR-ANDRADITE S.S.
OLI	12	GROSSULAR-ANDRADITE S.S.
UNK	1	CHLORITE
UNK	2	MAGNETITE
UNK	3	MAGNETITE

Sincerely,

R.L. Barnett