



**Ti-paa-haa-kaa-ning Gold Property
Lansdowne House, Ontario**

2010 Winter Reverse Circulation Drilling Program

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1. SUMMARY

This report describes an initial, 75-hole reverse circulation drilling program on the Ti-pa-haa-kaa-ning, Ontario, property of Northern Superior Resources Inc. The drilling was conducted in March, 2010 to evaluate a large gold grain glacial dispersal anomaly previously identified by surface till sampling. The drilling confirmed the surface gold grain anomaly and showed that it has at least four bedrock sources, most of which are enriched in arsenopyrite as well as gold. Geochemical analysis of the till and bedrock samples and a second phase of reverse circulation drilling are required to refine these four gold targets prior to diamond drilling.

2. INTRODUCTION

2.1 Project Outline

In March, 2010, Northern Superior Resources Inc. (Northern Superior) drilled 75 reverse circulation (RC) holes on the company's Ti-pa-haa-kaa-ning (TPK) gold property in northern Ontario. The drilling was undertaken to evaluate a large gold grain glacial dispersal anomaly previously identified by surface till sampling. It was performed by the Timmins, Ontario branch of Bradley Brothers Ltd. (Bradley) and supervised by Overburden Drilling Management Limited (ODM) of Nepean (Ottawa), Ontario.

2.2 Location and Access

The TPK property is located 470 km northeast of Thunder Bay and 190 km northeast of Pickle Lake, the nearest town with all-weather road access (Fig. 1). It lies north of Attawapiskat Lake within the traditional area of Neskantaga First Nation and is ~30 km northeast of the small (population ~350) community of Neskantaga, formerly known as Lansdowne House, located on the south shore of Attawapiskat Lake. Each winter, from February through March, Neskantaga is serviced by a temporary winter road leading 135 km eastward from a staging area on the Musselwhite Mine road northeast of Pickle Lake. Until recently, a 13 km ice road was also constructed northward across the lake to connect with a now-disused winter road (Fig. 2) passing 6 km east of the TPK property and

leading northeast to the First Nation community of Webequie on Winisk Lake. This route remains available to Northern Superior for transporting heavy equipment but the company is responsible for the annual cost of reopening the road. Access for lighter equipment, personnel and supplies is by float or ski-equipped fixed-wing aircraft or helicopter from Pickle Lake or Neskantaga. Both communities have daily scheduled air service from Thunder Bay.

Northern Superior formerly used Neskantaga as its base of operations for the TPK project but in January, 2010, established a fully-equipped base camp on Rowlandson Lake (Fig. 2) at the east end of the property in preparation for the RC drilling program. A new, 15 km winter road was opened northward from the Webequie road to the camp, passing through the eastern end of the drill area, and branch trails were cleared to the drill holes.

2.3 Claims

The TPK property is wholly owned by Northern Superior but, subsequent to the RC drilling program, Northern Superior granted Rainy River Resources Inc. (Rainy River) a three-year option to acquire a controlling 51 percent interest in the eastern part of the property within which the drilling was performed.

The property consists of 188 claims for a total of 39,778 hectares (Fig. 3). The RC drilling was conducted over 13 contiguous claims, Nos. 1203097, 1203098, 3019244, 3019253, 4217101, 4217102, 4217103, 4217105, 4221770, 4221771, 4221772, 4221773, and 4221774 (Table 1, Fig. 4).

3. METHODS AND COSTS

3.1 Program Design

The RC drilling program was designed to locate mineralized bedrock sources beneath a glacially generated, southwest trending, 7 km wide gold-grains-in-till anomaly that Northern Superior had previously outlined by surface sampling on the eastern part of the TPK property (Fig. 5). The northeasternmost holes, near the glacial head of the anomaly, were drilled at a closer spacing (200 x

400 m spacing) than those further down-ice to the southwest (400 x 400 to 400 x 800 m). The program encompassed 75 drill holes (Fig. 4, Table 2) at an average depth of 8.0 metres for a total of 597.1 m. An average of 2.7 till samples was collected from each hole, followed by a single 1.5 m bedrock sample.

3.2 Field Procedures

ODM measured the geographic co-ordinates (UTM, NAD83) of each drill site by GPS during initial layout and re-measured the final co-ordinates of the drill holes upon completion (Table 2). As well, imprecise GPS readings of the surface elevations of the drill hole collars were recorded and were later checked and revised by comparison with topographic maps and stereo air photos.

Three contractors and a variety of heavy equipment were employed during the road clearing, camp construction and drilling phases of the program. Outland Inc. of Thunder Bay used a plow truck for initial snow clearing on the ice road across Attawapiskat Lake and, with assistance from Neskantaga First Nation, constructed and operated the camp at Rowlandson Lake (Fig. 2). North Star Air Ltd. of Pickle Lake employed snow groomers to complete the ice road across Attawapiskat Lake and re-establish the section of winter road north of the lake. Bradley used a Caterpillar wide-pad D-6 bulldozer to clear the new access road and drill trails. Their RC drill rig was mounted and enclosed on a wide-tracked Nodwell carrier for all-terrain mobility and all-weather operation. Water for drilling was hauled from nearby lakes and creeks using a smaller Bombardier Muskeg tractor.

The reverse circulation drilling system used to sample overburden consists of specially designed coaxial piping and tricone bits (Fig. 6). Air and water are injected between the two pipes to the bit, and clay to pebble-sized sediment particles and cuttings up to 1 cm from boulders and bedrock are flushed instantly through the centre pipe to surface where they are continuously monitored and systematically described to produce a stratigraphic log (Appendix A). The -2 mm fines and a split of the +2 mm cuttings are collected in paired settling buckets from which samples weighing approximately 10 kg are extracted. Fine silt and clay suspended in the bucket overflow settle in a special tank and the water is recirculated down the drill hole. The 75 RC drill holes were prefixed TPKRC10 (for TPK property, 2010) and were numbered consecutively as drilled. The samples from each hole, whether of till, sand and gravel or bedrock, were also numbered consecutively (e.g. TPKRC10-63-01 to 05 for the five samples from Hole 63).

3.3 Sample Processing and Gold grain Observation Procedures

The bedrock samples were sieved at ODM's laboratory to obtain a subsample of coarse (+2.0 mm), clean cuttings for binocular microscope logging (Appendix B) to verify the preliminary field descriptions (Appendix A). A second subsample of the cuttings was reserved for possible geochemical and whole rock analysis.

The till samples were processed using the procedures shown in Figure 7 which are designed to progressively reduce the bulk sample, expose the gold grains, concentrate the heavy minerals and eliminate any drill steel that would interfere with geochemical analysis of the concentrates should such analysis be required to qualify the gold grain counts. First, the sample is wet screened at 2.0 mm and a -2.0 mm table concentrate is prepared. Geological observations on the character of the sample are made during both the screening and tabling operations (Appendix C). The primary table concentrate is purposely large (typically 300-400 g) and of low grade (10-25 percent heavy minerals) in order to achieve a high, 80 to 90 percent recovery rate for all desired heavy minerals irrespective of their grain size or relative specific gravity. The gold grains, which are mostly silt-sized, are observed at this stage with the aid of micropanning and are counted, measured and classified as to degree of wear (i.e. distance of glacial transport; Fig. 8). Their gold assay value is also calculated (Appendix D). In addition to gold grains, the micropanning procedure concentrates pyrite (S.G. 5.01) and especially the heavier sulphides such as arsenopyrite (S.G. 6.07) and galena (S.G. 7.58). Therefore the approximate number of recovered grains of these minerals is also recorded. To obtain a uniform heavy mineral fraction suitable for geochemical analysis, should such analysis be needed to further assess any gold grain and other mineralogical anomalies, the -2.0 mm table concentrate is separated in the heavy liquid methylene iodide at S.G. 3.32. Undesirable magnetite and drill steel are then removed from the heavy liquid concentrate using a ferromagnetic separator.

3.4 Expenditures

Qualifying exploration expenditures incurred in the RC drilling program are documented in Appendix E. Contract drilling, geological and sample processing costs totalled \$414,073 or \$693.47/m. Support costs, mainly for road clearing, camp operation, helicopter support and fuel, totalled \$937,471 or \$1,570.04/m.

4.

RESULTS

4.1

Quaternary Stratigraphy

Representative sections of the overburden encountered in the drill holes along the two lines indicated in Figure 4 are shown in Figures 9 to 10. The overburden along these two type sections ranges in thickness from 2 to 14 m and consists mainly of till. In low-lying areas and in swales in the uplands, the till is commonly overlain by glaciolacustrine clay which in turn is typically capped by a veneer of Holocene peat.

Only one till horizon is present but its thickness is very uneven, primarily due to variable drumlinization which is also reflected in the surface topography (Fig. 3). The till consists of up to 40 percent pebble to boulder-sized clasts in a fine sandy to silty rock flour matrix. The clast suite is dominated by granitic rocks derived from Archean plutons on and proximal to the property but generally also includes small (mostly pebble sized) carbonate and greywacke clasts derived from the distal Paleozoic and Proterozoic formations of the James Bay/Hudson Bay region to the northeast (Fig. 11). The proportion of these distal clasts may reach 50 percent in the core zone of thick drumlins but is generally <10 percent at the top and base of the drumlins and in areas of thin till between drumlins.

4.2

Bedrock Geology

The RC drilling was concentrated on the northeastern half of the regional gold-grains-in-till anomaly (Fig. 5). This part of the anomaly overlies the granitoid Freure Lake Batholith on the north side of the narrow (<1 km) Bartman Lake Greenstone Belt (Fig. 12). The southern end of one drill traverse, along the new winter access road (Fig. 4), was on the Spero Lake Batholith south of the greenstone belt. However, no greenstones were intersected on this traverse; instead the Spero Lake and Freure Lake Batholiths are in direct contact. The contact zone is broadly mylonitized, suggesting that it is a major shear zone, possibly the regional-scale Stull-Wunnummin Fault which extends from the James Bay Lowland westward to Manitoba (Stott 2008). Significant shearing was also observed in some holes drilled further north in the Freure Lake Batholith. These shear zones are locally mineralized

with minor pyrite, pyrrhotite or arsenopyrite (Appendices A, B). The northern part of the Freure Lake Batholith consists of white, coarse-grained quartz monzonite whereas the southern margin, adjacent to the greenstone belt, consists of pink, aplitic to porphyritic leucogranite (Appendix B).

4.3 Gold Grain and Arsenopyrite Content of the Till

Most of the till samples obtained from the RC drill holes, like the surface samples previously collected by Northern Superior (Fig. 5), are anomalous in gold grains. In addition, many samples are anomalous in arsenopyrite and pyrite, an association that was not apparent in the weathered surface samples due to degradation of any contained sulphide minerals by post-glacial oxidation. The average gold grain content per till sample in each drill hole, normalized to 7.5 kg of processed -2.0 mm till matrix to correct for variations in sample size and texture, is shown on Plan 1 and normalized arsenopyrite values are shown on Plan 2. The distribution of gold and arsenopyrite grains in the till in the RC drill holes clearly shows that the previously identified surface gold grain anomaly (Fig. 5) has at least four separate bedrock sources rather than a single source at its head and that most of these sources are mineralized with both gold and arsenopyrite.

5. CONCLUSIONS AND RECOMMENDATIONS

The mineralogical data obtained from the till samples collected from the RC drill holes indicate at least four significantly mineralized areas in the bedrock beneath the regional-scale gold grain glacial dispersal anomaly that was previously outlined by surface sampling. However, the hole spacing was not sufficient to prepare these targets for diamond drilling and no RC drilling was done on the southwestern, down-ice half of the regional anomaly. The following additional work is required to fully refine the indicated drill targets and assess the untested portion of the gold grain dispersal anomaly:

1. Analysis of the bedrock samples for gold, arsenic, other potential pathfinder elements, major oxides and trace elements.
2. Geochemical analysis of the till heavy mineral concentrates for gold, arsenic and other potential pathfinder elements.

3. A second phase of RC drilling, including ~40 infill holes at 100 to 200 m spacing on the newly defined targets on the northeastern half of the regional anomaly and ~60 holes at 400 m spacing on the untested southwestern half of this anomaly.

The estimated cost of this work, based on the unit costs experienced in the initial RC drilling campaign, is:

<u>Task</u>	<u>Cost (\$Cdn)</u>
Bedrock analysis: 75 samples @ \$70 per sample	5,250
Till heavy mineral analysis: 200 samples @ \$35 per sample	7,000
RC drilling: 100 holes @ \$12,000 per hole	<u>1,200,000</u>
Total:	1,212,250

It is expected that the above work will lead to a major program of diamond drilling. This drilling should be conducted in winter to allow testing of lake-covered targets.

* * * * *

6. **CERTIFICATE – Stuart A. Averill**

I, Stuart A. Averill, residing at 192 Powell Avenue, Ottawa, Ontario, Canada hereby certify as follows:

That I attended the University of Manitoba at Winnipeg, Manitoba and graduated with a B.Sc. (Hons.) in Geology in 1969;

That I have worked continuously in the field of mineral exploration geology since 1971;

That I am President and principal owner of Overburden Drilling Management Limited, 107-15 Capella Court, Nepean, Ontario, an independent geological consulting company that I founded in 1974;

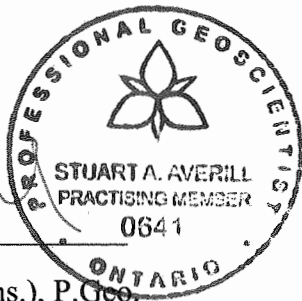
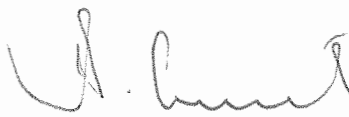
That I am a Member of the Association of Professional Geoscientists of Ontario and the Association of Professional Engineers and Geoscientists of Newfoundland and a Fellow of the Geological Association of Canada;

That this technical report is based on data gathered on the subject property by employees of Overburden Drilling Management Limited;

That I personally interpreted the data;

That I have visited the TPK Property on one occasion in August 2010;

That I directly hold or indirectly control 300,000 common shares of Northern Superior Resources Inc.



Stuart A. Averill, B.Sc. (Hons.), P. Geo.

Dated at Ottawa, Ontario this 5th day of April, 2011

7.

REFERENCES

- AVERILL, S.A. 2001. The application of heavy indicator mineralogy in mineral exploration with emphasis on base metal indicators in glaciated metamorphic and plutonic terrains. *In: MCCLENAGHAN, M.B. BOBROWSKY, P.T. HALL, G.E.M. & COOK, S.J. (eds) Drift Exploration in Glaciated Terrains*. Geological Society, London, Special Publications, **185**, 69-81.
- HART, T.R. & BOUCHER, D.R. 2010. *Technical report on the Ti-pa-haa-kaa-ning Property, Lansdowne House, Northwest Ontario*. 43-101F1 Technical Report prepared for Northern Superior Resources Inc.
- STOTT, G.M. 2008. *Exploration opportunities in the vicinity of the James Bay Lowlands*. Ontario Prospectors Association, Northeastern Ontario Mines and Minerals Symposium. Timmins, Ontario, April 14-16, 2008
- WHEELER, J.O., HOFFMAN, P.F., CARD, K.D., DAVIDSON, A., SANFORD, B.V., OKULITCH, A.V. & ROEST, W.R. 1996. *Geological map of Canada*. Geological Survey of Canada, Map **1860A**.

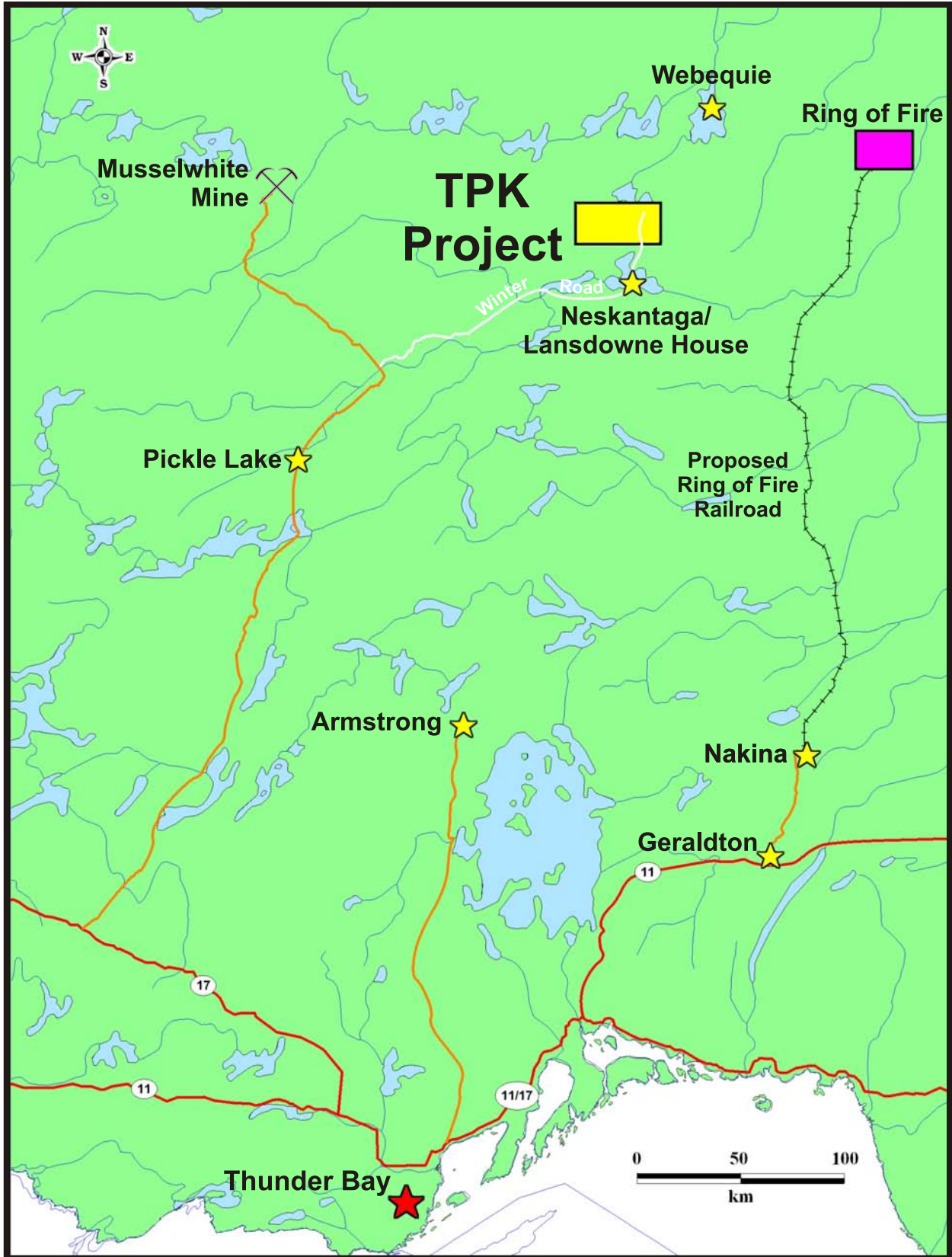


Figure 1 – Geographic location of the TPK property. Modified from Hart & Boucher, 2010.

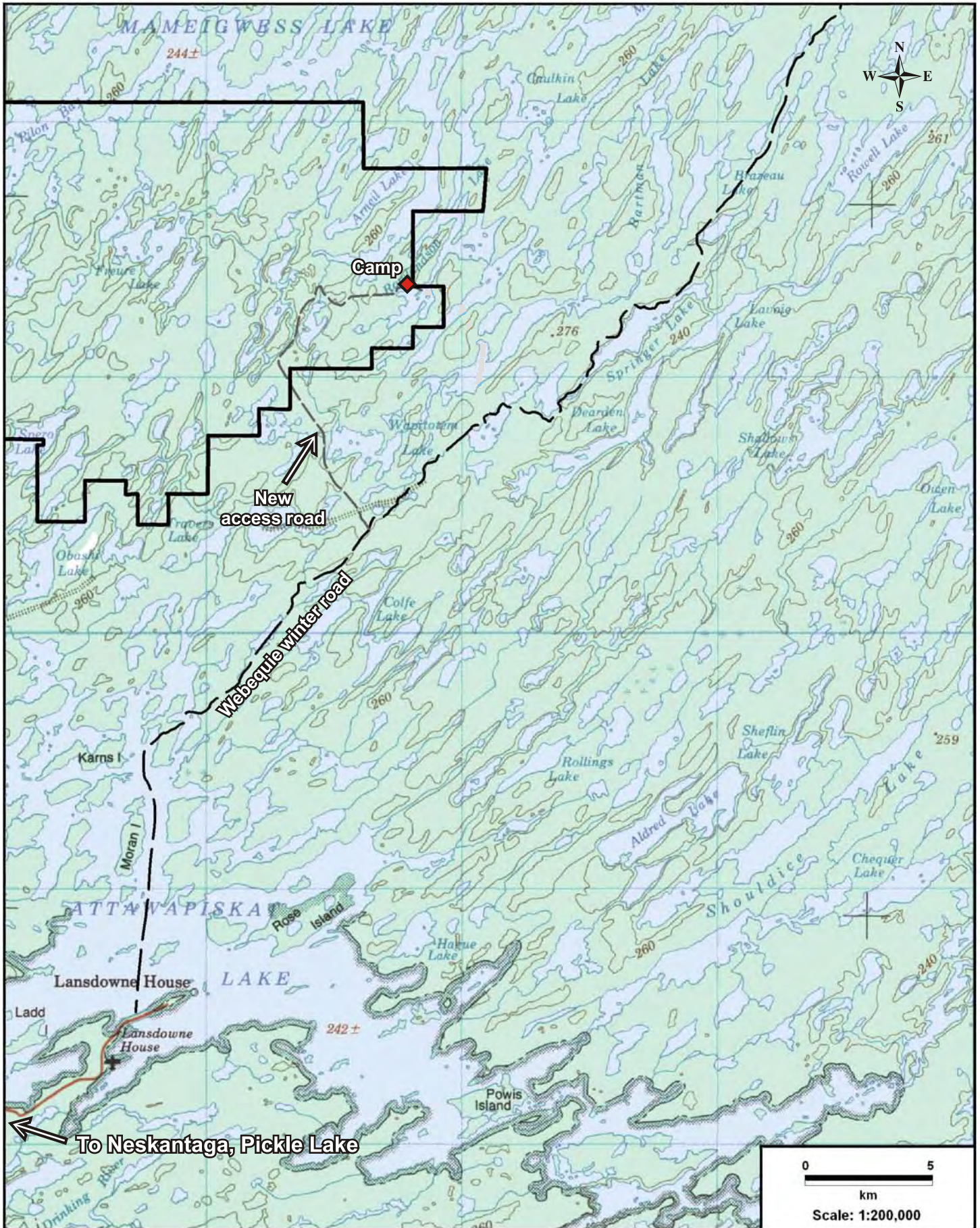


Figure 2 – Winter road route to the Rowlandson Lake camp.

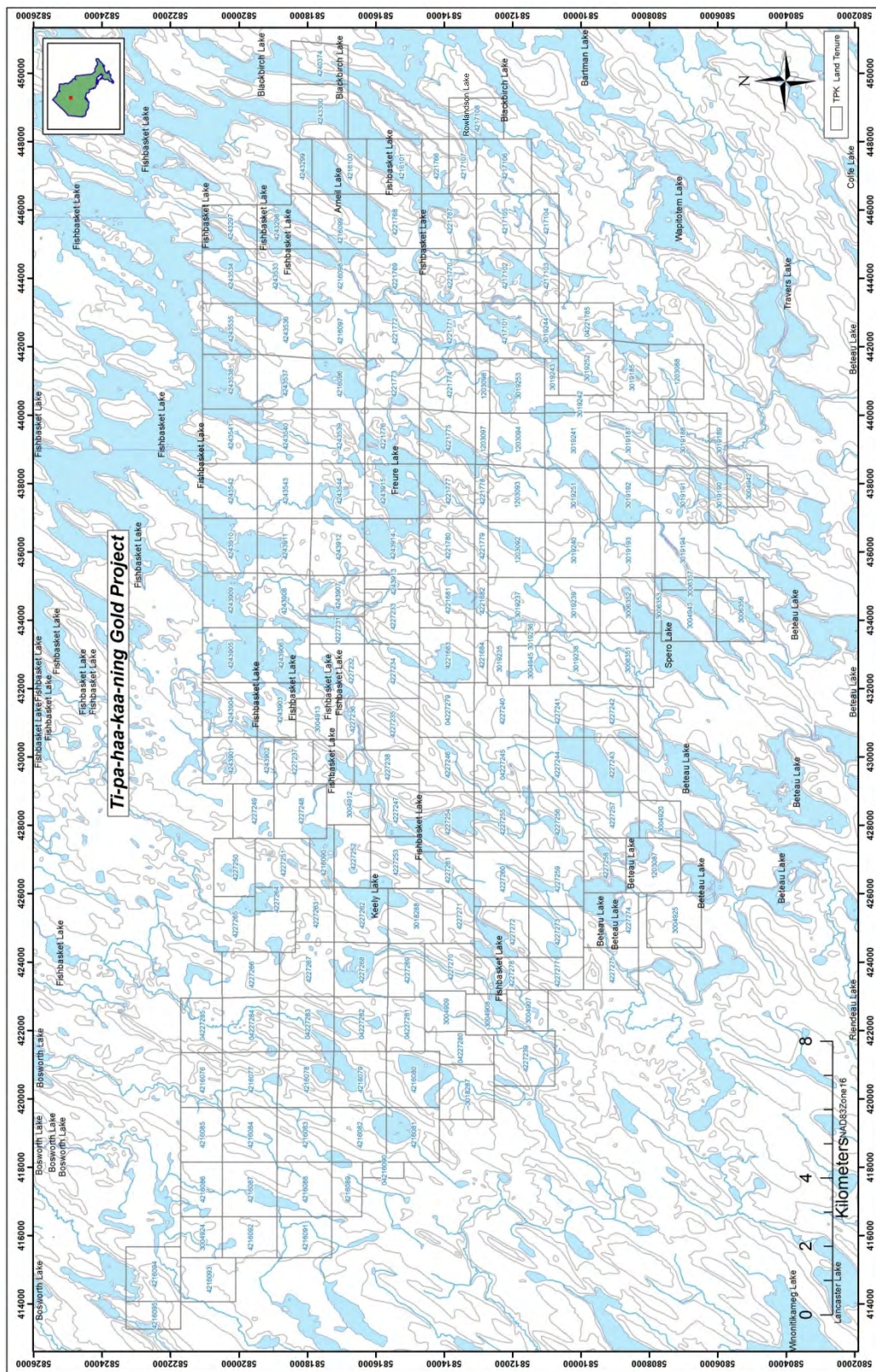


Figure 3 - Distribution of TPK claims.

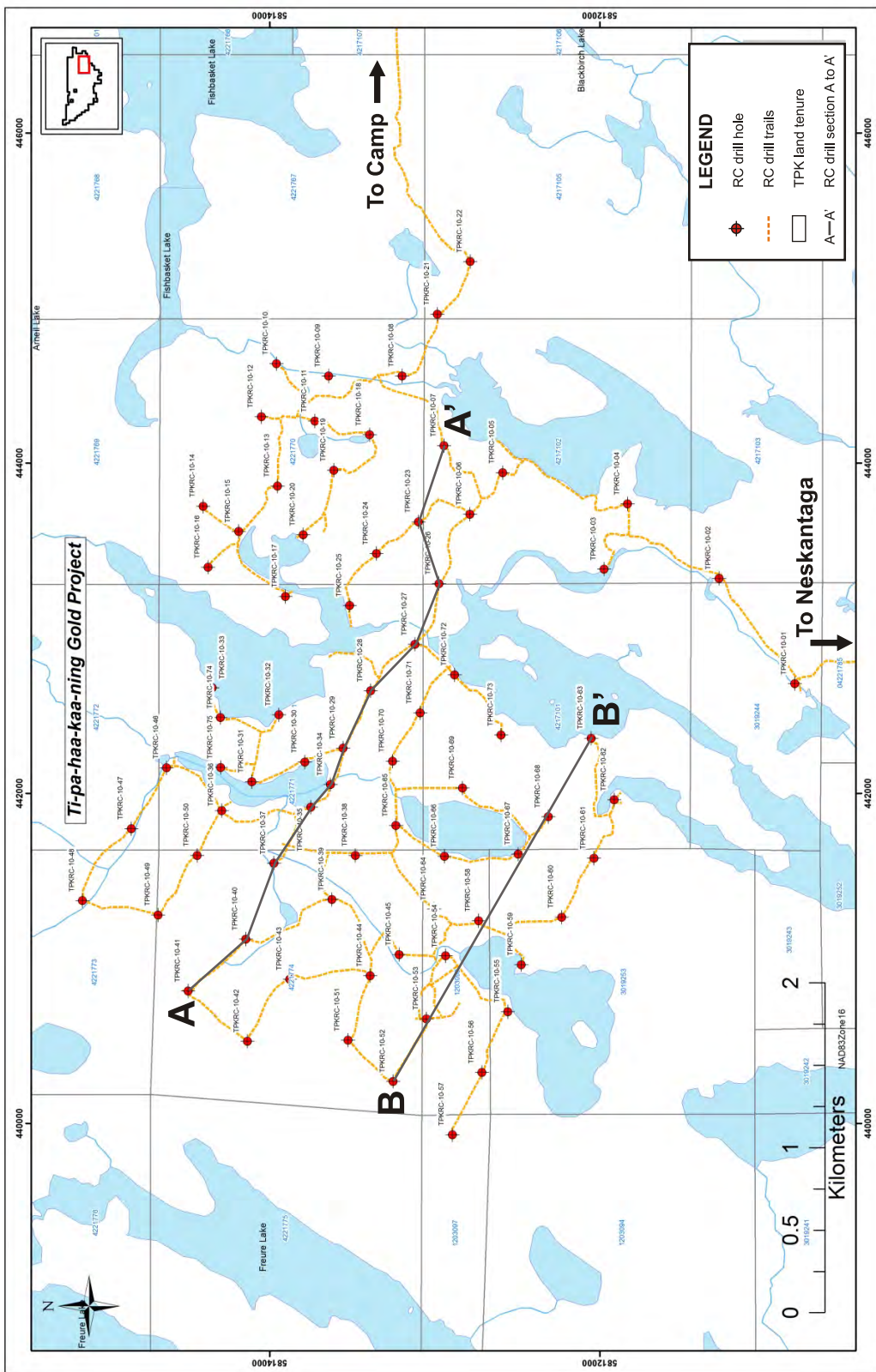


Figure 4 - Distribution of RC drill holes and access trails relative to claim boundaries.

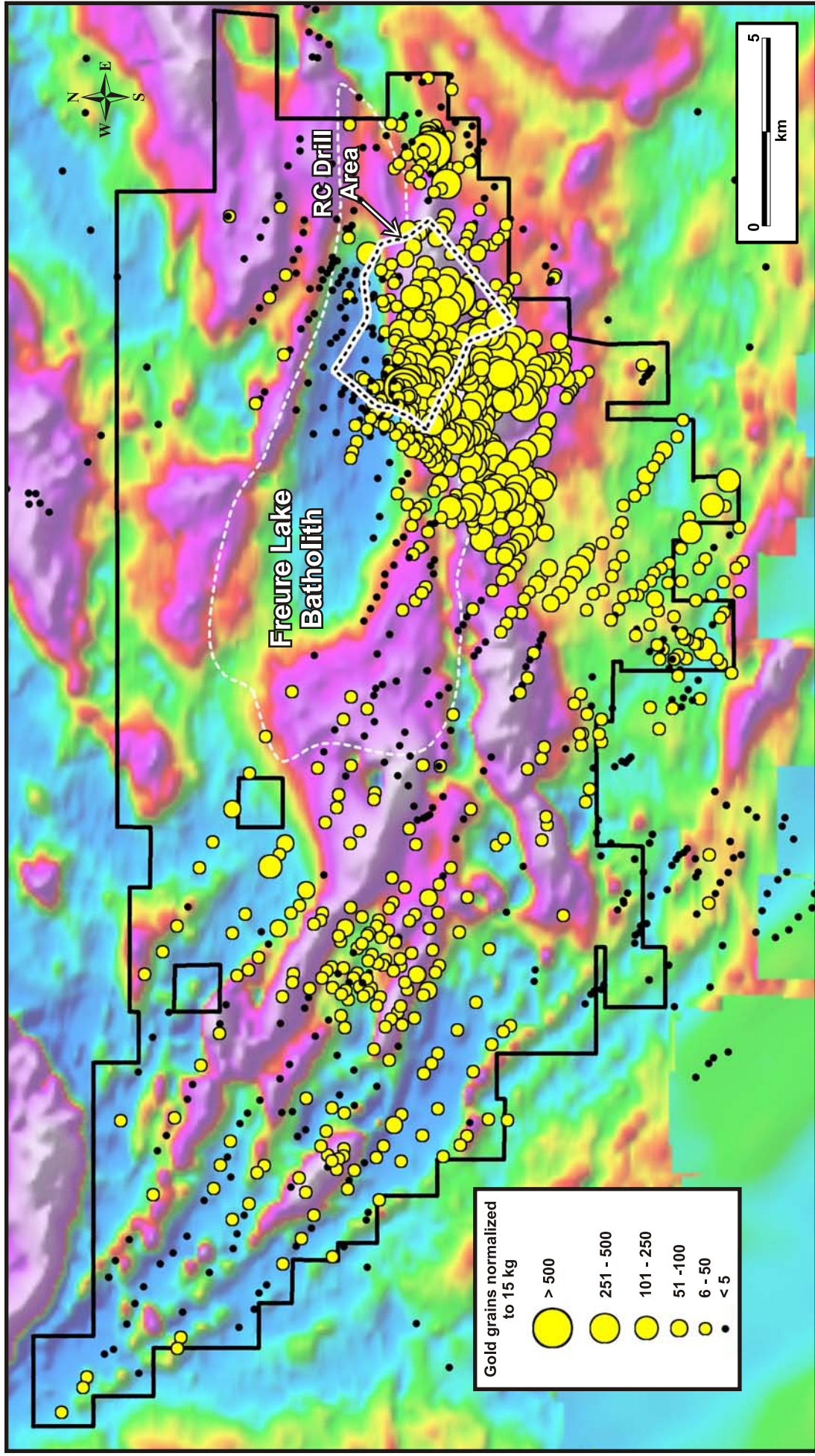


Figure 5 - Location of the RC drill area relative to total field aeromagnetic trends and the gold grain anomaly defined by surface till sampling.

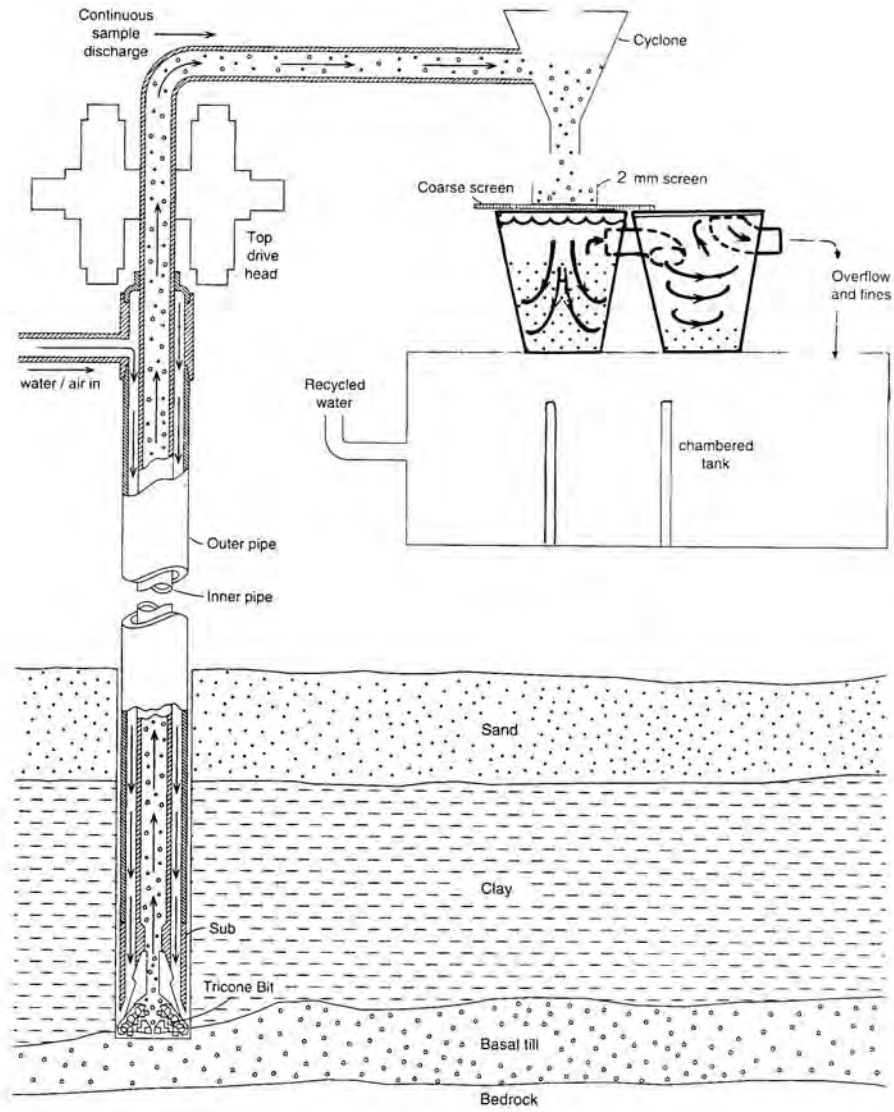


Figure 6 - Schematic diagram of a reverse circulation drilling system.

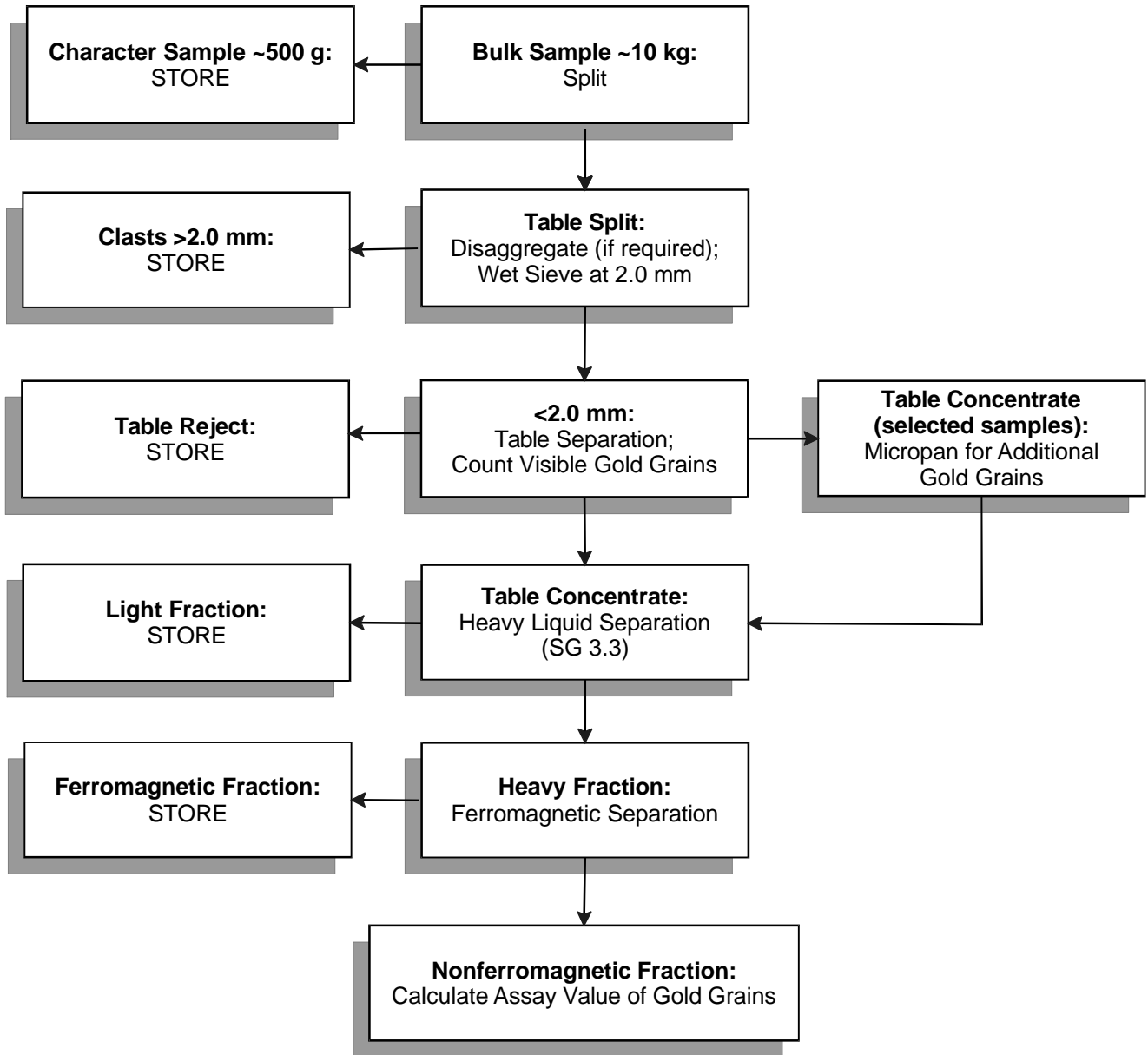
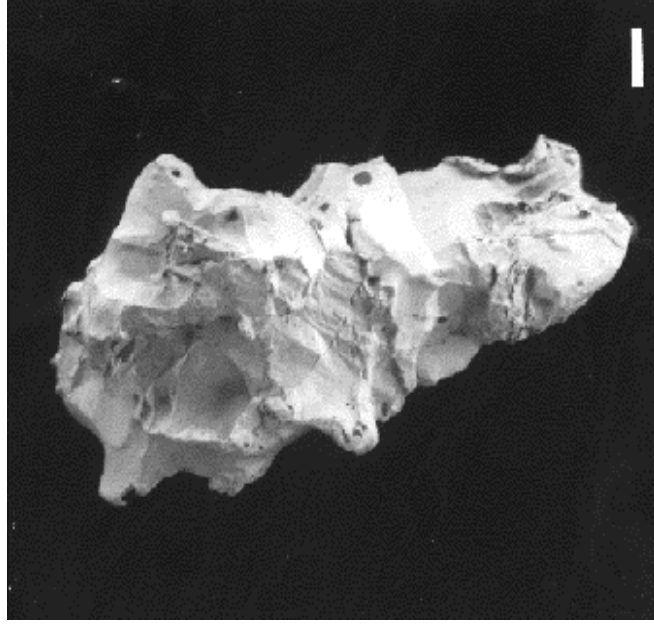


Figure 7 - Heavy mineral processing flowsheet for the overburden samples.

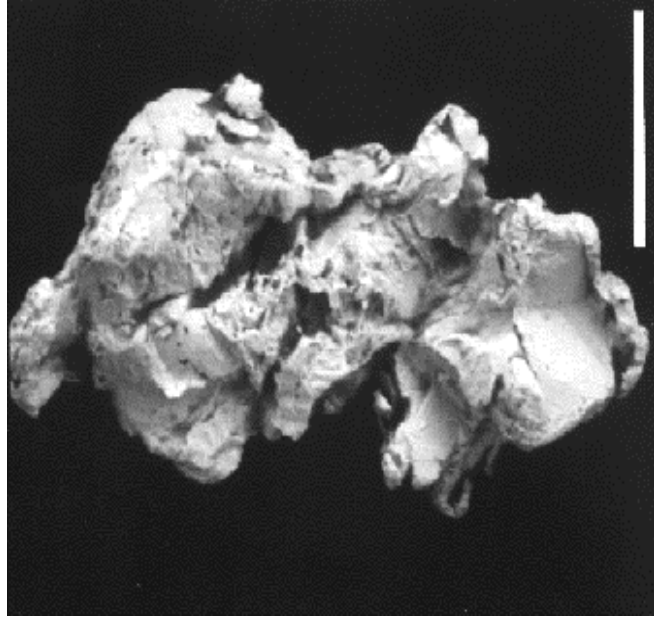
Till Gold Grain Morphology

Pristine



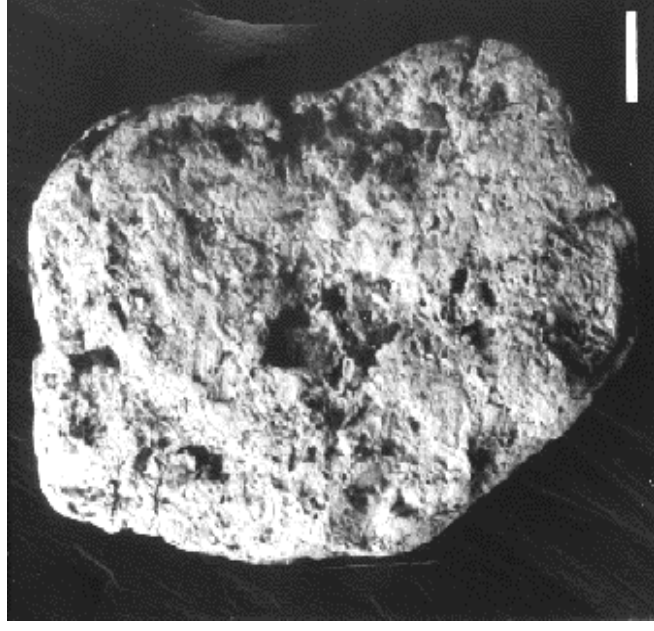
100 m

Modified



500 m

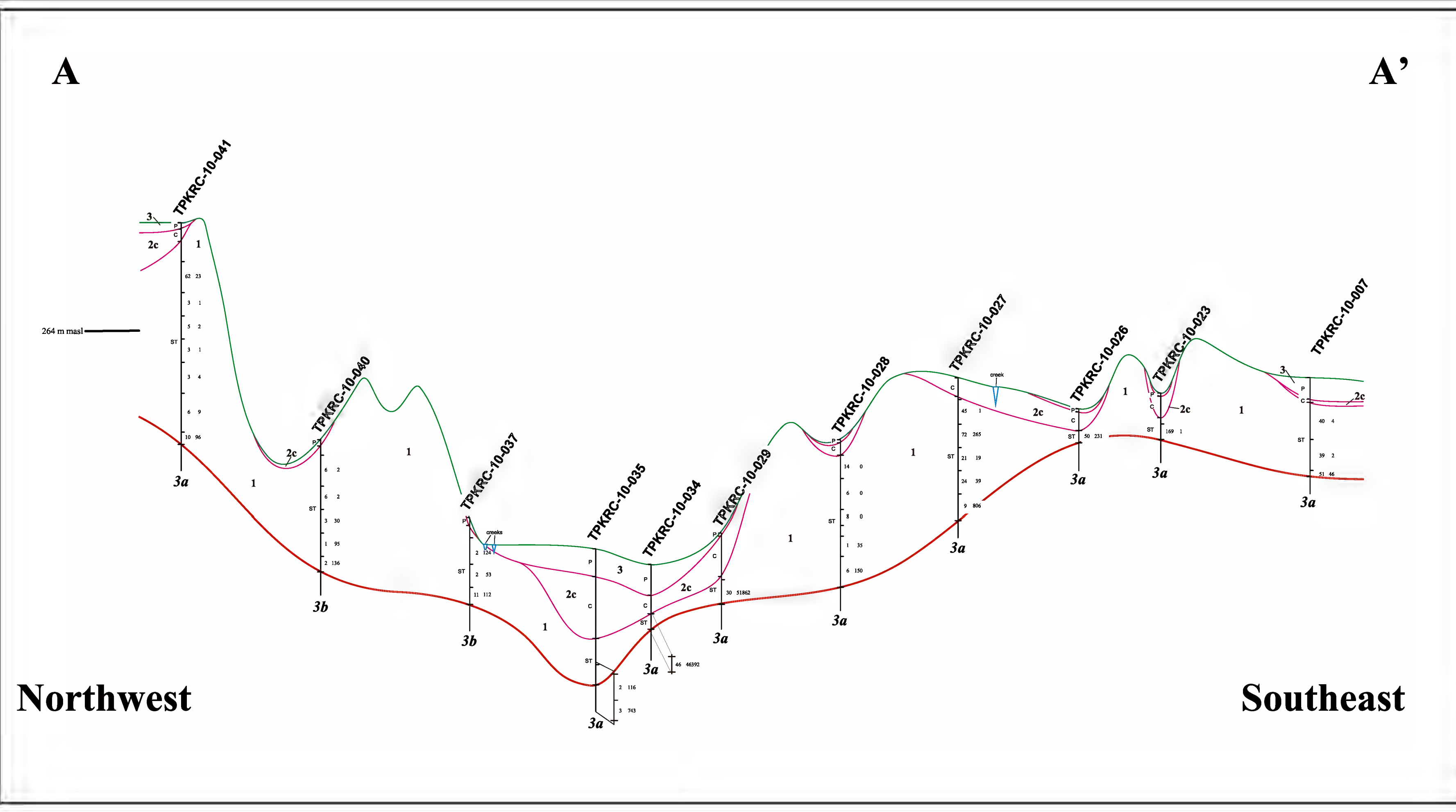
Reshaped



>1,000 to >10,000 m

Distance of Transport

Figure 8 - Backscatterer electron images of gold grains from till illustrating the relationship between grain wear and distance of transport. The wear processes are compressional (infolding and compaction) and do not reduce the mass of the gold grain. Scale bars = 50 μ m. Source: Averill, 2001.



LEGEND

- Quaternary Stratigraphy**
- HOLOCENE**
 - 3 Organic (forest litter, peat)
 - PLEISTOCENE**
 - LATE WISCONSINAN**
 - 2 Proglacial Sediments
 - 2c - glaciolacustrine clay member
 - 2b - glaciolacustrine sand or beach gravel member
 - 2a - glaciofluvial member
 - 1 Labradorian Till

Sediment Varieties

- P Peat
- C Clay, silt
- S Sand
- G Gravel
- ST Sand-silt till

Symbols

- Lake surface
- Terrain surface
- Quaternary unit boundary
- Quaternary/bedrock unconformity

Geochemistry

ST Sand-silt till interval with 5 gold grains (normalized) and 10 arsenopyrite grains (normalized) in the nonmagnetic heavy mineral fraction (SG>3.3)

Bedrock Lithologies

- ARCHEAN**
- Felsic Intrusive Rocks**
- 5 Spero Lake Batholith
Granodiorite
 - 4 Contact Stock
 - 4a - leucogranite
 - 4b - feldspar porphyry
 - 3 Freure Lake Batholith
 - 3a - quartz monzonite
 - 3b - biotite-feldspar porphyry
 - 3c - feldspar porphyry
 - 3d - diorite
 - 3e - aplite
- Bartman Lake Greenstone Belt**
- 2 Gabbro
 - 1 Basalt

Scale
Horizontal = 1:10,000
Vertical = 1:200

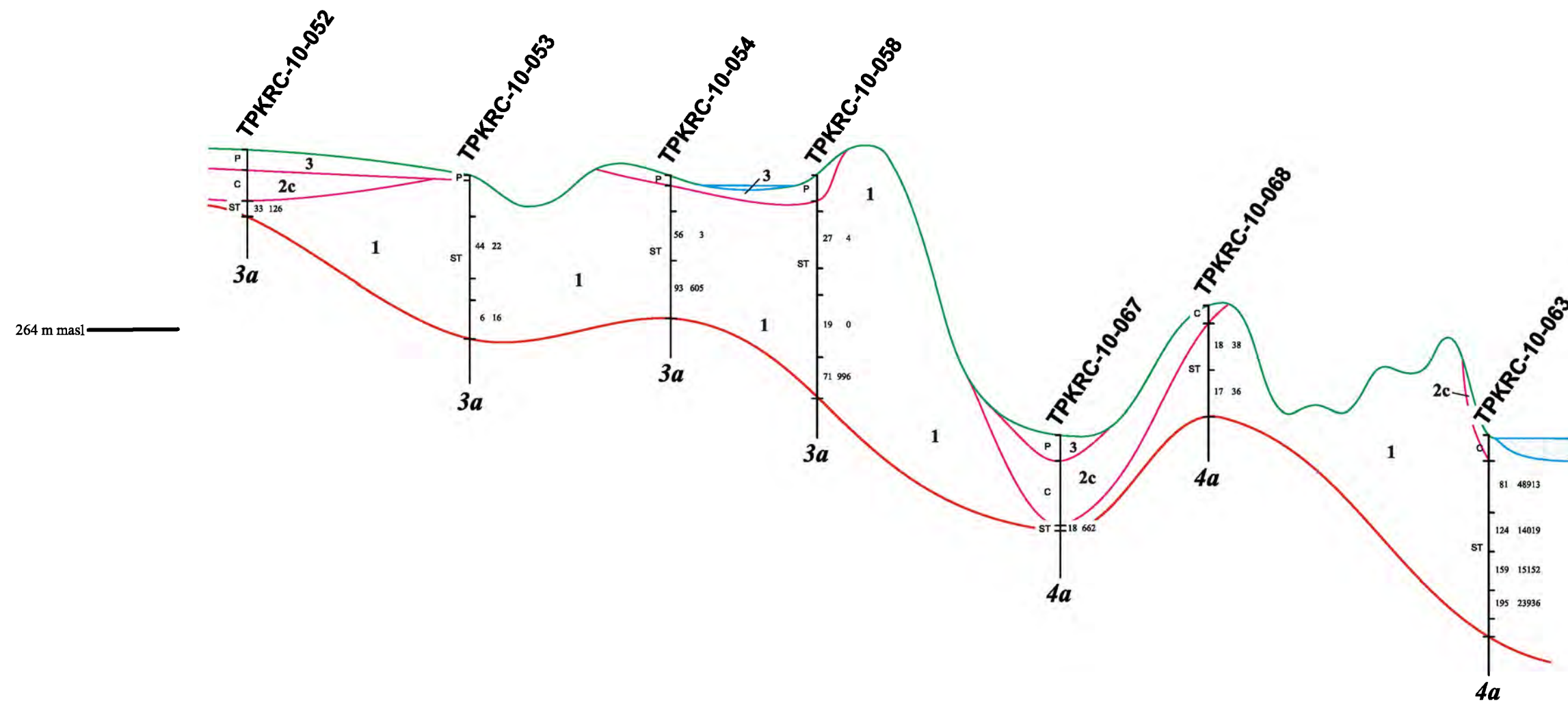
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TPK JOINT VENTURE

Figure 9 - Reverse circulation drill section A-A'. Line of section is shown on Figure 4.

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April 2011

B

B'



Northwest

Southeast

LEGEND

Quaternary Stratigraphy

- HOLOCENE**
3 Organic (forest litter, peat)
- PLEISTOCENE**
LATE WISCONSINAN
2 Proglacial Sediments
2c - glaciolacustrine clay member
2b - glaciolacustrine sand or beach gravel member
2a - glaciofluvial member
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Symbols

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Geochemistry

- ST Sand-silt till interval with 5 gold grains (normalized) and 10 arsenopyrite grains (normalized) in the nonmagnetic heavy mineral fraction (SG>3.3)

Bedrock Lithologies

ARCHEAN

Felsic Intrusive Rocks

- 5 Spero Lake Batholith
Granodiorite
- 4 Contact Stock
4a - leucogranite
4b - feldspar porphyry
- 3 Freure Lake Batholith
3a - quartz monzonite
3b - biotite-feldspar porphyry
3c - feldspar porphyry
3d - diorite
3e - aplite

Bartman Lake Greenstone Belt

- 2 Gabbro
- 1 Basalt

Scale
Horizontal = 1:10,000
Vertical = 1:200

**Rainy River Resources Ltd.
and
Northern Superior Resources Inc.**

TPK JOINT VENTURE

Figure 10 - Reverse circulation drill section B-B'. Line of section is shown on Figure 4.

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April 2011

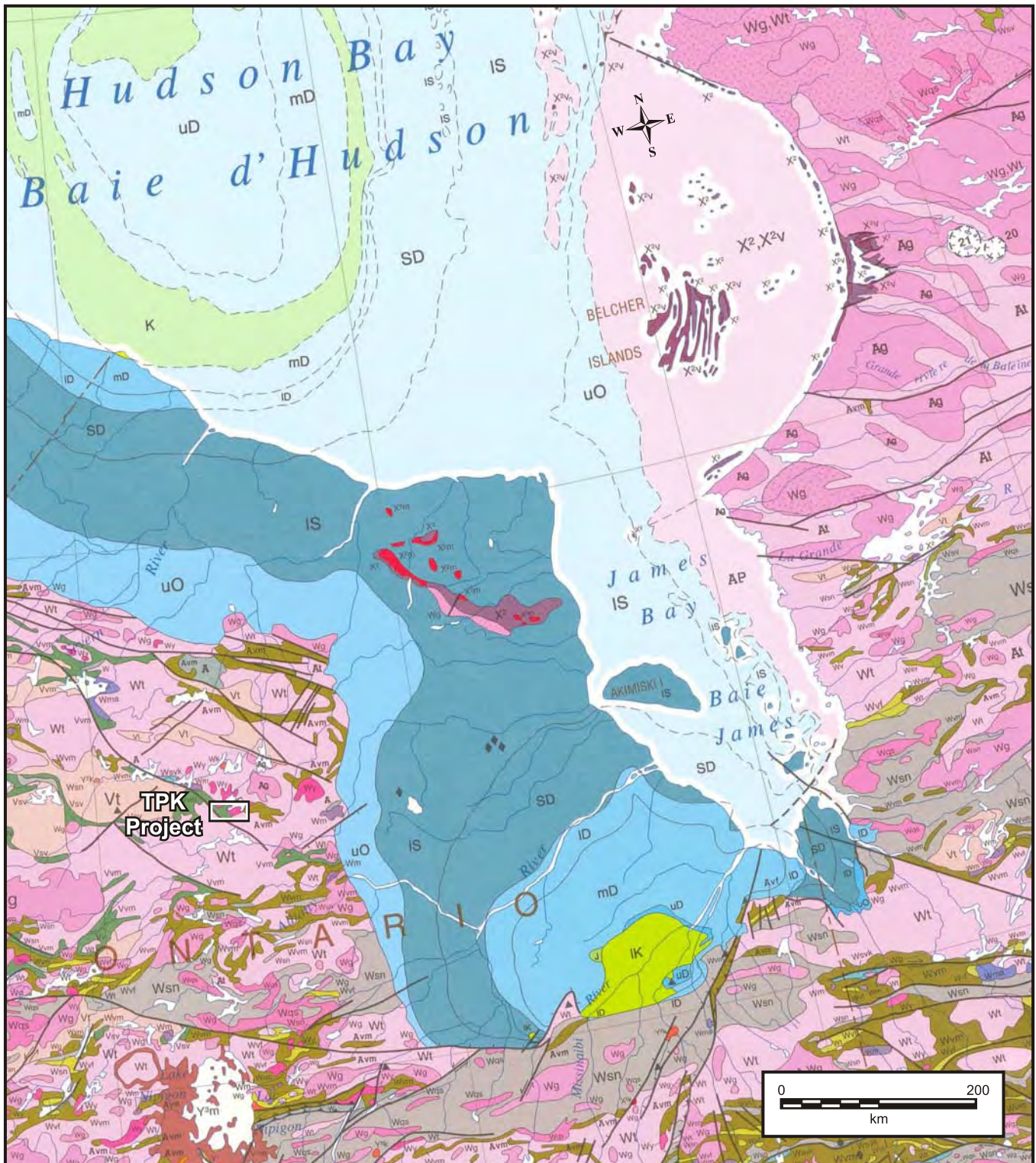


Figure 11 – Geology of the James Bay region. Lithologic ages: A, W = Archean; X, P, Y = Proterozoic; O = Ordovician; S = Silurian; D = Devonian; K = Cretaceous. Source: Wheeler *et al.*, 1996,

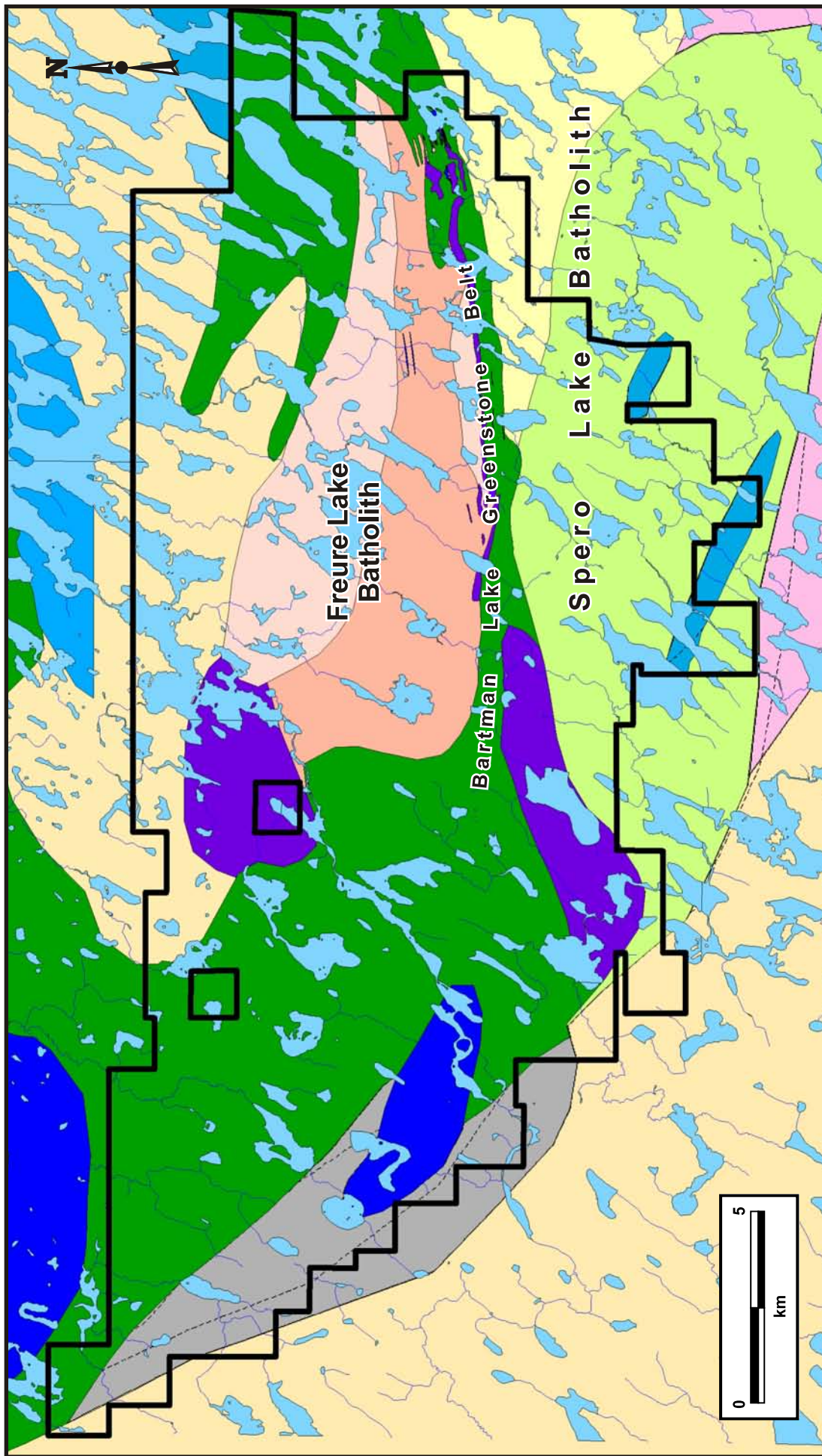


Figure 12 - Geological setting of the TPK property. Modified from Hart & Boucher, 2010.

Location	Claim Number	Date		Area (ha)	Claim Units	Location	Claim Number	Date		Area (ha)	Claim Units
		Recorded	Due					Recorded	Due		
Wapitotem Lake Area	3006351	2006-Dec-01	2011-Dec-01	256	16	Bosworth Lake Area	4216088	2008-Feb-04	2012-Feb-04	256	16
Wapitotem Lake Area	3006352	2006-Dec-01	2011-Dec-01	256	16	Bosworth Lake Area	4216090	2008-Feb-04	2012-Feb-04	128	8
Wapitotem Lake Area	3006356	2006-Dec-01	2011-Dec-01	240	15	Bosworth Lake Area	4216091	2008-Feb-04	2012-Feb-04	192	12
Wapitotem Lake Area	3019185	2006-Dec-01	2011-Dec-01	160	10	Bosworth Lake Area	4216092	2008-Feb-04	2012-Feb-04	192	12
Wapitotem Lake Area	3019187	2006-Dec-01	2011-Dec-01	256	16	Bosworth Lake Area	4216093	2008-Feb-04	2012-Feb-04	192	12
Wapitotem Lake Area	3019188	2006-Dec-01	2011-Dec-01	256	16	Bosworth Lake Area	4216094	2008-Feb-04	2012-Feb-04	256	16
Wapitotem Lake Area	3019191	2006-Dec-01	2011-Dec-01	256	16	Bosworth Lake Area	4227237	2008-Feb-04	2012-Feb-04	144	9
Wapitotem Lake Area	3019192	2006-Dec-01	2011-Dec-01	256	16	Bosworth Lake Area	4227248	2008-Feb-04	2012-Feb-04	256	16
Wapitotem Lake Area	3019193	2006-Dec-01	2011-Dec-01	256	16	Bosworth Lake Area	4227249	2008-Feb-04	2012-Feb-04	192	12
Wapitotem Lake Area	3019238	2006-Dec-01	2011-Dec-01	256	16	Bosworth Lake Area	4227250	2008-Feb-04	2012-Feb-04	224	14
Wapitotem Lake Area	3019239	2006-Dec-01	2011-Dec-01	256	16	Bosworth Lake Area	4227251	2008-Feb-04	2012-Feb-04	256	16
Wapitotem Lake Area	3019240	2006-Dec-01	2011-Dec-01	256	16	Bosworth Lake Area	4227263	2008-Feb-04	2012-Feb-04	192	12
Wapitotem Lake Area	3019241	2006-Dec-01	2011-Dec-01	256	16	Bosworth Lake Area	4227264	2008-Feb-04	2012-Feb-04	96	6
Wapitotem Lake Area	3019194	2006-Dec-04	2011-Dec-04	256	16	Bosworth Lake Area	4227265	2008-Feb-04	2012-Feb-04	192	12
Wapitotem Lake Area	3019251	2006-Dec-29	2011-Dec-29	256	16	Bosworth Lake Area	4227266	2008-Feb-04	2012-Feb-04	192	12
Wapitotem Lake Area	3019252	2006-Dec-29	2011-Dec-29	256	16	Bosworth Lake Area	4227267	2008-Feb-04	2012-Feb-04	240	15
Wapitotem Lake Area	3019253	2006-Dec-29	2011-Dec-29	256	16	Bowman Lake Area	4216095	2008-Feb-04	2012-Feb-04	128	8
Bartman Lake Area	4240374	2008-Jul-21	2011-Jul-21	192	12	Meigwess Lake Area	4216100	2008-Feb-04	2012-Feb-04	256	16
Bartman Lake Area	4243300	2008-Jul-21	2011-Jul-21	256	16	Meigwess Lake Area	4227231	2008-Feb-04	2012-Feb-04	128	8
Meigwess Lake Area	4243534	2008-Jul-21	2011-Jul-21	256	16	Meigwess Lake Area	4227232	2008-Feb-04	2012-Feb-04	256	16
Meigwess Lake Area	4243537	2008-Jul-21	2011-Jul-21	256	16	Michikenopik Lake Area	04216090	2008-Feb-04	2012-Feb-04	48	3
Meigwess Lake Area	4243538	2008-Jul-21	2011-Jul-21	256	16	Michikenopik Lake Area	04227245	2008-Feb-04	2012-Feb-04	256	16
Meigwess Lake Area	4243539	2008-Jul-21	2011-Jul-21	256	16	Michikenopik Lake Area	04227280	2008-Feb-04	2012-Feb-04	160	10
Meigwess Lake Area	4243540	2008-Jul-21	2011-Jul-21	256	16	Michikenopik Lake Area	04227281	2008-Feb-04	2012-Feb-04	192	12
Meigwess Lake Area	4243543	2008-Jul-21	2011-Jul-21	256	16	Michikenopik Lake Area	04227282	2008-Feb-04	2012-Feb-04	256	16
Meigwess Lake Area	4243544	2008-Jul-23	2011-Jul-23	256	16	Michikenopik Lake Area	4216079	2008-Feb-04	2012-Feb-04	256	16
Meigwess Lake Area	4243912	2008-Jul-23	2011-Jul-23	256	16	Michikenopik Lake Area	4216080	2008-Feb-04	2012-Feb-04	256	16
Wapitotem Lake Area	04221785	2007-Nov-07	2011-Nov-07	192	12	Michikenopik Lake Area	4216081	2008-Feb-04	2012-Feb-04	256	16
Wapitotem Lake Area	4221771	2007-Nov-07	2011-Nov-07	256	16	Michikenopik Lake Area	4216082	2008-Feb-04	2012-Feb-04	256	16
Wapitotem Lake Area	1203088	2001-Oct-29	2011-Oct-31	256	16	Michikenopik Lake Area	4216089	2008-Feb-04	2012-Feb-04	128	8
Wapitotem Lake Area	3004942	2003-Mar-10	2011-Oct-31	144	9	Michikenopik Lake Area	4227235	2008-Feb-04	2012-Feb-04	256	16
Wapitotem Lake Area	3004943	2003-Mar-10	2011-Oct-31	256	16	Michikenopik Lake Area	4227236	2008-Feb-04	2012-Feb-04	112	7
Michikenopik Lake Area	3018287	2006-Dec-01	2012-Dec-01	256	16	Michikenopik Lake Area	4227238	2008-Feb-04	2012-Feb-04	160	10
Michikenopik Lake Area	3018288	2006-Dec-01	2012-Dec-01	256	16	Michikenopik Lake Area	4227239	2008-Feb-04	2012-Feb-04	256	16
Wapitotem Lake Area	3019189	2006-Dec-01	2012-Dec-01	96	6	Michikenopik Lake Area	4227243	2008-Feb-04	2012-Feb-04	256	16
Wapitotem Lake Area	3019190	2006-Dec-01	2012-Dec-01	96	6	Michikenopik Lake Area	4227244	2008-Feb-04	2012-Feb-04	256	16
Wapitotem Lake Area	3019235	2006-Dec-01	2012-Dec-01	96	6	Michikenopik Lake Area	4227246	2008-Feb-04	2012-Feb-04	256	16
Wapitotem Lake Area	3019237	2006-Dec-01	2012-Dec-01	256	16	Michikenopik Lake Area	4227247	2008-Feb-04	2012-Feb-04	224	14
Wapitotem Lake Area	3006357	2006-Dec-04	2012-Dec-04	64	4	Michikenopik Lake Area	4227252	2008-Feb-04	2012-Feb-04	192	12
Bosworth Lake Area	04227283	2008-Feb-04	2012-Feb-04	256	16	Michikenopik Lake Area	4227253	2008-Feb-04	2012-Feb-04	240	15
Bosworth Lake Area	04227284	2008-Feb-04	2012-Feb-04	256	16	Michikenopik Lake Area	4227254	2008-Feb-04	2012-Feb-04	256	16
Bosworth Lake Area	04227285	2008-Feb-04	2012-Feb-04	192	12	Michikenopik Lake Area	4227255	2008-Feb-04	2012-Feb-04	256	16
Bosworth Lake Area	4216076	2008-Feb-04	2012-Feb-04	192	12	Michikenopik Lake Area	4227256	2008-Feb-04	2012-Feb-04	256	16
Bosworth Lake Area	4216077	2008-Feb-04	2012-Feb-04	256	16	Michikenopik Lake Area	4227257	2008-Feb-04	2012-Feb-04	208	13
Bosworth Lake Area	4216078	2008-Feb-04	2012-Feb-04	256	16	Michikenopik Lake Area	4227258	2008-Feb-04	2012-Feb-04	192	12
Bosworth Lake Area	4216083	2008-Feb-04	2012-Feb-04	256	16	Michikenopik Lake Area	4227259	2008-Feb-04	2012-Feb-04	256	16
Bosworth Lake Area	4216084	2008-Feb-04	2012-Feb-04	256	16	Michikenopik Lake Area	4227260	2008-Feb-04	2012-Feb-04	256	16
Bosworth Lake Area	4216085	2008-Feb-04	2012-Feb-04	192	12	Michikenopik Lake Area	4227261	2008-Feb-04	2012-Feb-04	192	12
Bosworth Lake Area	4216086	2008-Feb-04	2012-Feb-04	192	12	Michikenopik Lake Area	4227262	2008-Feb-04	2012-Feb-04	256	16
Bosworth Lake Area	4216087	2008-Feb-04	2012-Feb-04	256	16	Michikenopik Lake Area	4227268	2008-Feb-04	2012-Feb-04	256	16

Table 1 - List of TPK claims. Page 1 of 2.

Location	Claim Number	Date		Area (ha)	Claim Units	Location	Claim Number	Date		Area (ha)	Claim Units
		Recorded	Due					Recorded	Due		
Michikenopik Lake Area	4227269	2008-Feb-04	2012-Feb-04	160	10	Michikenopik Lake Area	3004907	2003-Mar-10	2012-Oct-31	144	9
Michikenopik Lake Area	4227270	2008-Feb-04	2012-Feb-04	224	14	Michikenopik Lake Area	3004908	2003-Mar-10	2012-Oct-31	144	9
Michikenopik Lake Area	4227271	2008-Feb-04	2012-Feb-04	128	8	Michikenopik Lake Area	3004909	2003-Mar-10	2012-Oct-31	144	9
Michikenopik Lake Area	4227272	2008-Feb-04	2012-Feb-04	256	16	Michikenopik Lake Area	3004920	2003-Mar-10	2012-Oct-31	144	9
Michikenopik Lake Area	4227273	2008-Feb-04	2012-Feb-04	256	16	Michikenopik Lake Area	3004925	2003-Mar-10	2012-Oct-31	256	16
Michikenopik Lake Area	4227274	2008-Feb-04	2012-Feb-04	256	16	Wapitotem Lake Area	3006353	2006-Dec-01	2013-Dec-01	48	3
Michikenopik Lake Area	4227275	2008-Feb-04	2012-Feb-04	192	12	Wapitotem Lake Area	3019236	2006-Dec-01	2013-Dec-01	48	3
Michikenopik Lake Area	4227277	2008-Feb-04	2012-Feb-04	160	10	Wapitotem Lake Area	3019242	2006-Dec-01	2013-Dec-01	80	5
Michikenopik Lake Area	4227278	2008-Feb-04	2012-Feb-04	176	11	Wapitotem Lake Area	3019243	2006-Dec-01	2013-Dec-01	48	3
Wapitotem Lake Area	04227279	2008-Feb-04	2012-Feb-04	256	16	Wapitotem Lake Area	3019244	2006-Dec-01	2013-Dec-01	128	8
Wapitotem Lake Area	4216101	2008-Feb-04	2012-Feb-04	256	16	Meigwess Lake Area	4216096	2008-Feb-04	2013-Feb-04	256	16
Wapitotem Lake Area	4227233	2008-Feb-04	2012-Feb-04	256	16	Meigwess Lake Area	4216097	2008-Feb-04	2013-Feb-04	256	16
Wapitotem Lake Area	4227234	2008-Feb-04	2012-Feb-04	256	16	Meigwess Lake Area	4216098	2008-Feb-04	2013-Feb-04	256	16
Wapitotem Lake Area	4227240	2008-Feb-04	2012-Feb-04	256	16	Meigwess Lake Area	4216099	2008-Feb-04	2013-Feb-04	256	16
Wapitotem Lake Area	4227241	2008-Feb-04	2012-Feb-04	256	16	Meigwess Lake Area	4243297	2008-Jul-21	2013-Jul-21	192	12
Wapitotem Lake Area	4227242	2008-Feb-04	2012-Feb-04	256	16	Meigwess Lake Area	4243533	2008-Jul-21	2013-Jul-21	256	16
Bosworth Lake Area	4243901	2008-Jul-21	2012-Jul-21	224	14	Meigwess Lake Area	4243535	2008-Jul-21	2013-Jul-21	256	16
Bosworth Lake Area	4243902	2008-Jul-21	2012-Jul-21	64	4	Meigwess Lake Area	4243907	2008-Jul-21	2013-Jul-21	192	12
Meigwess Lake Area	4243298	2008-Jul-21	2012-Jul-21	208	13	Wapitotem Lake Area	4243914	2008-Jul-23	2013-Jul-23	256	16
Meigwess Lake Area	4243299	2008-Jul-21	2012-Jul-21	80	5	Wapitotem Lake Area	4243915	2008-Jul-23	2013-Jul-23	256	16
Meigwess Lake Area	4243536	2008-Jul-21	2012-Jul-21	256	16	Wapitotem Lake Area	4217101	2007-Mar-14	2013-Mar-14	256	16
Meigwess Lake Area	4243541	2008-Jul-21	2012-Jul-21	256	16	Wapitotem Lake Area	4217103	2007-Mar-14	2013-Mar-14	128	8
Meigwess Lake Area	4243542	2008-Jul-21	2012-Jul-21	256	16	Wapitotem Lake Area	4217104	2007-Mar-14	2013-Mar-14	128	8
Meigwess Lake Area	4243903	2008-Jul-21	2012-Jul-21	256	16	Wapitotem Lake Area	4217105	2007-Mar-14	2013-Mar-14	256	16
Meigwess Lake Area	4243904	2008-Jul-21	2012-Jul-21	256	16	Wapitotem Lake Area	4217106	2007-Mar-14	2013-Mar-14	256	16
Meigwess Lake Area	4243905	2008-Jul-21	2012-Jul-21	256	16	Wapitotem Lake Area	4217107	2007-Mar-14	2013-Mar-14	128	8
Meigwess Lake Area	4243906	2008-Jul-21	2012-Jul-21	256	16	Wapitotem Lake Area	4221681	2007-Nov-07	2013-Nov-07	256	16
Meigwess Lake Area	4243908	2008-Jul-21	2012-Jul-21	256	16	Wapitotem Lake Area	4221682	2007-Nov-07	2013-Nov-07	64	4
Meigwess Lake Area	4243909	2008-Jul-21	2012-Jul-21	256	16	Wapitotem Lake Area	4221684	2007-Nov-07	2013-Nov-07	64	4
Meigwess Lake Area	4243910	2008-Jul-21	2012-Jul-21	256	16	Wapitotem Lake Area	4221770	2007-Nov-07	2013-Nov-07	256	16
Meigwess Lake Area	4243911	2008-Jul-21	2012-Jul-21	256	16	Wapitotem Lake Area	4221772	2007-Nov-07	2013-Nov-07	256	16
Wapitotem Lake Area	4243913	2008-Jul-23	2012-Jul-23	64	4	Wapitotem Lake Area	4221774	2007-Nov-07	2013-Nov-07	256	16
Springer Lake Area	4217108	2007-Mar-14	2012-Mar-14	192	12	Wapitotem Lake Area	4221775	2007-Nov-07	2013-Nov-07	256	16
Wapitotem Lake Area	4217102	2007-Mar-14	2012-Mar-14	256	16	Wapitotem Lake Area	4221776	2007-Nov-07	2013-Nov-07	256	16
Wapitotem Lake Area	4221683	2007-Nov-07	2012-Nov-07	256	16	Wapitotem Lake Area	4221777	2007-Nov-07	2013-Nov-07	256	16
Wapitotem Lake Area	4221766	2007-Nov-07	2012-Nov-07	128	8	Wapitotem Lake Area	4221778	2007-Nov-07	2013-Nov-07	64	4
Wapitotem Lake Area	4221767	2007-Nov-07	2012-Nov-07	256	16	Wapitotem Lake Area	4221779	2007-Nov-07	2013-Nov-07	64	4
Wapitotem Lake Area	4221768	2007-Nov-07	2012-Nov-07	256	16	Wapitotem Lake Area	4221780	2007-Nov-07	2013-Nov-07	256	16
Wapitotem Lake Area	4221769	2007-Nov-07	2012-Nov-07	256	16	Wapitotem Lake Area	1203092	2001-Oct-29	2013-Oct-29	256	16
Wapitotem Lake Area	1203093	2001-Oct-29	2012-Oct-29	256	16	Wapitotem Lake Area	1203097	2001-Oct-29	2013-Oct-29	64	4
Wapitotem Lake Area	1203094	2001-Oct-29	2012-Oct-29	256	16	Wapitotem Lake Area	3004945	2003-Mar-10	2013-Oct-31	144	9
Wapitotem Lake Area	1203098	2001-Oct-29	2012-Oct-29	64	4	Bosworth Lake Area	3004924	2003-Mar-10	2014-Oct-31	144	9
Bosworth Lake Area	3004912	2003-Mar-10	2012-Oct-31	144	9	Wapitotem Lake Area	4221773	2007-Nov-07	2015-Nov-07	256	16
Bosworth Lake Area	3004913	2003-Mar-10	2012-Oct-31	144	9	Bosworth Lake Area	4260984	2010-Dec-30	2012-Dec-30	144	9
Michikenopik Lake Area	1203087	2001-Oct-29	2012-Oct-31	256	16						

Table 1 - List of TPK claims. Page 2 of 2.

Hole Number	UTM Co-ordinates (NAD 83, Zone 16U)		Elevation (masl)	Claim No.	Date Drilled	Metres Drilled		Hole Depth (m)	Samples Collected	
	Easting	Northing				Overburden	Bedrock		Till	Bedrock
TPKRC-10-001	442664	5810793	259	3019244	03/03/2010	10.2	3.3	13.5	1	1
TPKRC-10-002	443302	5811276	259	4217103	04/03/2010	10.5	2.0	12.5	3	1
TPKRC-10-003	443359	5811972	261	4217102	04/03/2010	5.8	1.7	7.5	3	1
TPKRC-10-004	443753	5811830	259	4217102	04/03/2010	3.0	1.5	4.5	1	1
TPKRC-10-005	443943	5812587	262	4217102	04/03/2010	8.0	1.5	9.5	3	1
TPKRC-10-006	443691	5812786	259	4217102	05/03/2010	6.0	2.0	8.0	1	1
TPKRC-10-007	444106	5812942	261	4217102	05/03/2010	6.4	1.1	7.5	3	1
TPKRC-10-008	444528	5813196	258	4221770	06/03/2010	3.8	1.7	5.5	1	1
TPKRC-10-009	444527	5813642	254	4221770	06/03/2010	5.0	2.0	7.0	1	1
TPKRC-10-010	444603	5813958	255	4221770	07/03/2010	2.8	1.7	4.5	2	1
TPKRC-10-011	444255	5813724	255	4221770	07/03/2010	8.2	1.8	10.0	4	1
TPKRC-10-012	444281	5814049	256	4221770	07/03/2010	6.8	1.7	8.5	1	1
TPKRC-10-013	443861	5813950	256	4221770	07/03/2010	4.8	1.7	6.5	2	1
TPKRC-10-014	443738	5814401	253	4221770	08/03/2010	5.2	1.8	7.0	1	1
TPKRC-10-015	443586	5814186	252	4221770	08/03/2010	5.4	1.6	7.0	2	1
TPKRC-10-016	443369	5814372	254	4221770	08/03/2010	6.3	1.7	8.0	3	1
TPKRC-10-017	443193	5813903	254	4221771	08/03/2010	5.4	1.6	7.0	1	1
TPKRC-10-018	444171	5813393	257	4221770	09/03/2010	7.4	1.6	9.0	2	1
TPKRC-10-019	443957	5813609	256	4221770	09/03/2010	3.0	1.5	4.5	1	1
TPKRC-10-020	443566	5813795	254	4221770	09/03/2010	2.2	1.8	4.0	1	1
TPKRC-10-021	444904	5812982	261	4217105	10/03/2010	6.5	1.5	8.0	2	1
TPKRC-10-022	445222	5812783	267	4217105	10/03/2010	2.6	1.9	4.5	0	1
TPKRC-10-023	443645	5813096	260	4221770	11/03/2010	3.0	1.5	4.5	1	1
TPKRC-10-024	443453	5813352	256	4221770	11/03/2010	6.7	1.6	8.3	3	1
TPKRC-10-025	443138	5813513	255	4221771	11/03/2010	6.0	1.5	7.5	4	1
TPKRC-10-026	443271	5812973	259	4217102	12/03/2010	2.2	1.8	4.0	1	1
TPKRC-10-027	442903	5813118	261	4221771	12/03/2010	9.2	1.1	10.3	5	1
TPKRC-10-028	442621	5813386	257	4221771	12/03/2010	9.5	1.5	11.0	5	1
TPKRC-10-029	442273	5813553	251	4221771	13/03/2010	4.6	1.6	6.2	1	1
TPKRC-10-030	442190	5813785	249	4221771	13/03/2010	9.8	1.5	11.3	3	1
TPKRC-10-031	442071	5814107	250	4221771	14/03/2010	9.8	1.6	11.4	6	1
TPKRC-10-032	442475	5813942	254	4221771	14/03/2010	7.4	1.6	9.0	4	1
TPKRC-10-033	442639	5814347	256	4221771	15/03/2010	8.8	1.7	10.5	5	1
TPKRC-10-034	442053	5813629	248	4221771	15/03/2010	4.2	2.0	6.2	1	1
TPKRC-10-035	441884	5813832	249	4221771	15/03/2010	8.8	1.7	10.5	2	1
TPKRC-10-036	441894	5814289	249	4221771	15/03/2010	2.4	1.8	4.2	1	1
TPKRC-10-037	441577	5813973	252	4221774	16/03/2010	5.6	1.7	7.3	3	1
TPKRC-10-038	441624	5813479	259	4221774	16/03/2010	3.4	1.6	5.0	1	1
TPKRC-10-039	441357	5813621	256	4221774	16/03/2010	2.5	1.7	4.2	1	1
TPKRC-10-040	441117	5814143	257	4221774	17/03/2010	8.5	1.5	10.0	5	1
TPKRC-10-041	440802	5814492	271	4221774	17/03/2010	14.3	1.7	16.0	7	1
TPKRC-10-042	440497	5814133	272	4221774	18/03/2010	15.7	1.6	17.3	8	1
TPKRC-10-043	440874	5813876	263	4221774	19/03/2010	4.4	1.6	6.0	2	1
TPKRC-10-044	440895	5813389	264	4221774	19/03/2010	1.8	1.7	3.5	1	1
TPKRC-10-045	441023	5813214	261	4221774	19/03/2010	0.4	2.0	2.4	0	1
TPKRC-10-046	442155	5814622	250	4221771	20/03/2010	4.3	1.7	6.0	2	1
TPKRC-10-047	441786	5814837	254	4221772	20/03/2010	4.2	1.6	5.8	1	1
TPKRC-10-048	441350	5815132	258	4221773	20/03/2010	7.1	1.6	8.7	3	1
TPKRC-10-049	441263	5814674	257	4221774	21/03/2010	4.1	2.2	6.3	2	1
TPKRC-10-050	441624	5814438	252	4221774	21/03/2010	5.8	1.7	7.5	2	1
TPKRC-10-051	440505	5813524	270	4221774	21/03/2010	2.2	1.5	3.7	1	1
TPKRC-10-052	440254	5813250	271	4221774	21/03/2010	2.6	1.6	4.2	1	1
TPKRC-10-053	440634	5813048	269	1203098	22/03/2010	6.3	1.7	8.0	2	1
TPKRC-10-054	441016	5812933	270	1203098	23/03/2010	5.5	1.5	7.0	2	1
TPKRC-10-055	440677	5812556	270	3019253	24/03/2010	4.2	2.0	6.2	2	1
TPKRC-10-056	440309	5812712	272	1203098	24/03/2010	5.4	1.6	7.0	1	1
TPKRC-10-057	439933	5812892	271	1203097	24/03/2010	8.6	1.9	10.5	5	1
TPKRC-10-058	441228	5812733	270	1203098	25/03/2010	8.6	1.5	10.1	3	1
TPKRC-10-059	440962	5812475	270	3019253	25/03/2010	8.7	1.8	10.5	5	1
TPKRC-10-060	441250	5812230	277	3019253	25/03/2010	11.2	1.5	12.7	7	1
TPKRC-10-061	441607	5812034	272	3019253	26/03/2010	3.0	1.5	4.5	1	1
TPKRC-10-062	441961	5811911	258	4217101	26/03/2010	4.8	1.7	6.5	1	1
TPKRC-10-063	442334	5812051	261	4217101	27/03/2010	7.8	1.5	9.3	4	1
TPKRC-10-064	441299	5813002	268	1203098	27/03/2010	3.6	1.6	5.2	2	1
TPKRC-10-065	441805	5813234	260	4221771	27/03/2010	1.6	1.6	3.2	1	1
TPKRC-10-066	441619	5812939	261	1203098	27/03/2010	6.2	1.5	7.7	2	1
TPKRC-10-067	441632	5812492	260	3019253	28/03/2010	3.7	1.8	5.5	1	1
TPKRC-10-068	441858	5812310	265	4217101	28/03/2010	4.3	1.7	6.0	2	1
TPKRC-10-069	442032	5812830	261	4217101	28/03/2010	14.2	1.5	15.7	8	1
TPKRC-10-070	442195	5813254	258	4221771	28/03/2010	10.6	1.6	12.2	6	1
TPKRC-10-071	442488	5813088	261	4221771	29/03/2010	8.6	1.9	10.5	5	1
TPKRC-10-072	442718	5812878	258	4217101	29/03/2010	13.8	1.6	15.4	8	1
TPKRC-10-073	442353	5812596	260	4217101	29/03/2010	10.8	1.6	12.4	5	1
TPKRC-10-074	442459	5814296	256	4221771	30/03/2010	8.2	1.8	10.0	5	1
TPKRC-10-075	442156	5814295	250	4221771	30/03/2010	6.6	1.6	8.2	3	1
Totals:						470.9	126.2	597.1	202	75
Averages:						6.3	1.7	8.0	2.7	1.0

Table 2 - Reverse circulation drill hole locations and drilling statistics.

<u>Service</u>	<u>Provider</u>	<u>Amount</u>
Contract drilling and geological	ODM	\$ 162,029
	Bradley Brothers	\$ 252,044
Company geological	Northern Superior	\$ 28,520
Site access and trail maintenance	Bradley, North Star, NFN	\$ 184,879
Drilling support (fuel, rental equipment)	North Star	\$ 294,460
Transportation (drilling support, personnel, camp supplies)	North Star, Forest Helicopters	\$ 249,673
Camp operational costs	Outland, North Star, NFN	<u>\$ 179,940</u>
	Total:	\$ 1,351,544

Table 3 - Cost summary for the RC drilling program.

Appendix A

Reverse Circulation Drill Hole Logs

NAD83 164

Hole No.: TPKRC-10- 01 Site No.: RC10-99 Location: E 442664 N 5810793 Elevation: 255

Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: helicopter Move and Setup Time: 11:30 AM - 2:00 PM Drilling Time: 2:00 - 6:00 PM March 3
8:00 - 9:30 AM March 4

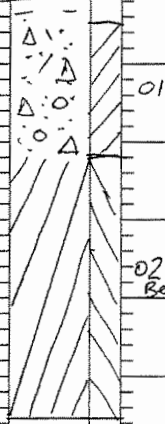
Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: 4:00 - 5:00 PM March 3 change water swivel

Consumables: New Bit and Bit Sub

Bit No. AZ550B Bit Footage: 0 - 13.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 1.5	^ ^ ^ ^ ^		<u>Organics</u> - drill set-up is on dry beaver pond
1.5 - 8.5			<u>Clay</u> - No drilling resistance - very soft, non-gritty, grey with very fine grained silt varves below 7.0m
8.5 - 10.2			<u>Till</u> - matrix supported, very fine grained grey sand/silt and gritty grey clay/silt matrix; clasts estimated to be 20% limestone and proterozoic 30% volcanics/sediments 50% granitoid - change water swivel at 10.0m after repeatedly losing sample return and pressure testing drill rods
10.2 - 13.5			<u>Bedrock - Tonalite</u> - white and black with pink hematitic stain - massive, porphyritic - 2mm to 1cm 10% hornblende 10% quartz 80% plagioclase - trace green epidote veinlets - non-magnetic - no sulphides
13.5			EOH

Hole No.: TPKRC-10-02 Site No.: RC10-104 Location: E 443302 N 581276 Elevation: _____
 Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 9:30-10:15 AM Drilling Time: 10:15-12:30 PM
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A25508 Bit Footage: 13.5-25.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0.15	^ ^ ^ ^ ^ ^		<u>Organics</u> - set-up is at edge of beaver pond
1.5-5.0			<u>Clay</u> very little drilling resistance very soft, non-gritty, grey
5.0-10.5			<u>Till</u> 50% matrix supported, very fine grained grey sand/silt and gritty grey clay/silt matrix; clast compositions 30% limestone + proterozoic 40% volcanics/sediments 50% granitoid
7.5-10.5			matrix to locally clast supported, matrix as above with gradually less clay/silt lumps; clasts 25% limestone + proterozoics 25% volcanics/sediments 50% granitoid
10.5-12.0			<u>Bedrock - Tonafite</u> - white and black - massive - grain size 2mm - 5mm - 10% hornblende 15% quartz 70% plagioclase 1% biotite - no alteration.
12.0		04 Bedrock	
12.0			12.E04
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10-03 Site No.: RC-10-62 Location: E 443358 N 5811972 Elevation: 255 m
 Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 12:30-1:00 PM Drilling Time: 1:00-3:00 PM
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A25508 Bit Footage: 25.5 - 33.0

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0			0 - 0.5 <u>boulder - tonalite</u>
0.5			0.5 - 5.8 <u>Till</u>
0.5 - 3.0		01*	matrix supported, very fine grained beige sand/silt and gritty beige silt matrix; clasts compositions 15% limestone 40% volcanics 45% granitoid
3.0 - 5.8		02	* Sample 01 is undersize
3.0 - 5.8		03	still matrix supported but occasional stoney sections, very fine grained grey sand/silt matrix; clasts 10% limestone 30% volcanics 60% granitoid
5.8 - 7.5		04	<u>Bedrock - Tonalite</u>
7.5 - 20			- white, grey and black - massive with gneissic banding - 2mm to 5mm grain size 5% hornblende 10% quartz 85% plagioclase - trace quartz veinlets - occasional pink hematite stain
			7.5 EOH

Hole No.: TPKRC-10-04 Site No.: RC-10-58 Location: E 443753 N 5811830 Elevation: 260
 Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 3:00-3:30 Drilling Time: 3:30-5:00PM
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A 25508 Bit Footage: 33.0-37.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-0.6			<u>boulder</u> . pink granodiorite
0.6-1.2		01	<u>clay</u> - organic-rich, slightly gritty compact, brown
1.2-3.0		02	<u>Till</u> matrix supported, very fine grained beige sand/silt and gritty beige clay matrix changing to very fine gray sand/silt below 2.5m; clast compositions 15% limestone 5% volcanics 80% granitoid
3.0-4.5			<u>Bedrock Tonalite</u> - white, black - massive, gneissic banding 0.1mm to 3mm 10% hornblende 10% quartz 80% plagioclase - trace very fine disseminated pyrite $\leq 0.2mm$
4.5			<u>EOH</u>
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10-06 Site No.: RC10-04 Location: E 443691 N 5812786 Elevation: 260m

Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 12:00-12:30 Drilling Time: 12:30-2:30 PM

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. A25608 Bit Footage: 9.5 - 17.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0	^ ^		0 - 3.8 <u>Peat</u>
1	^		
2	^ ^		3.8 - 5.5 <u>Clay</u> - very soft, non-gritty, grey, no drilling resistance
3	^ ^		
4	^ ^		5.5 - 6.0 <u>Till</u> very fine grained grey sand/silt with gritty clay matrix; clasts: 1% limestone 99% tonalite
5	^		
6	△ △ ○ ○	01	6.0 - 8.0 <u>Bedrock - Tonalite</u> - white, black - massive, porphyritic - 5% hornblende - 10-15% quartz - 80% plagioclase - trace magnetite
7	△ △ ○ ○	02	
8	△ △ ○ ○		
9			
10			
11			8.0 EOH
12			
13			
14			
15			
16			
17			
18			
19			
20			

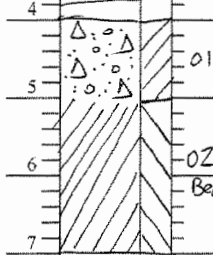
Hole No.: TPKRC-10-07 Site No.: RC10-05 Location: E 444106 N 5812942 Elevation: _____
 Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 2:30 - 3:00 Drilling Time: 3:00 - 6:00 PM March 5
 Moving Problems: _____ 7:30 - 9:30 AM March 6
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A25608 Bit Footage: 17.5 - 25.0

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 1.4	^ ^		<u>Peat</u>
1 - 1.6	^ ^ ^		<u>Clay</u> very soft, non-gritty, grey
1.6 - 6.4	0 0 Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ	01 02 03 04	<u>Till</u> 1.6 to 2.0m all boulders/cobbles with no sample return 2.0 - 5.0 matrix to locally clast supported, very fine grained grey sand/silt matrix; < 5% limestone 95% granitoid 5.0 - 6.4 matrix supported; very fine grained grey sand/silt clasts 25% limestone 75% granitoid including a red hematite stained cobble
6.4 - 7.5	Bedrock		<u>Bedrock - Tonalite</u> - white, pink and black - massive, porphyritic - 1mm to 1cm ≤ 5% hornblende 10% quartz 85% plagioclase trace magnetite trace epidote veinlets
7.5			<u>EOH</u>
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10-08 Site No.: RC-10-13 Location: E 444529 N 5013196 Elevation: 256m
 Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 9:30-10:00 AM Drilling Time: 1:00-3:00 PM
 Moving Problems: _____ between 10:00 AM and 1:00 PM assist getting D6 out of creek
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____ New B.T
 Bit No. A2500B Bit Footage: 0-5.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 1.5			<u>Peat</u>
1.5 - 3.5			<u>Clay</u> very soft, non-gritty, grey 2.2-2.5 boulder - tonalite
3.5 - 3.8			<u>Till</u> matrix supported, very fine grained grey sand/silt matrix; clast compositions 5% limestone 95% tonalite
3.8 - 5.5		01 02 Bedrock	<u>Bedrock - Tonalite</u> - white, pink and black - massive, porphyritic, 2mm to 1cm - ≤ 5% hornblende 15% quartz 80% plagioclase trace magnetite trace epidote trace quartz veins
5.5			<u>EOH</u>

Hole No.: TPKRC-10-09 Site No.: RC10-21 Location: E 444528 N 5813642 Elevation: 255m
 Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 3:00 - 3:30 PM Drilling Time: 4:30 - 6:00 PM
 Moving Problems: _____ Assist D6 get out of creek 3:30 - 4:30 PM
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A25008 Bit Footage: 5.5 - 12.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 1.0	^ ^ ^ ^		<u>Organics</u>
1.0 - 4.0			<u>Clay</u> very soft, non-gritty grey
4.0 - 5.0			<u>Till</u> matrix supported, very fine grained grey-beige sand/silt clast compositions 10% limestone 90% granitoid
5.0 - 7.0		01 02	<u>Bedrock - Granodiorite</u> - black, white and pink with red hematite stain - porphyritic, granular and sheared - grain size 0.1 to 8mm - 3% hornblende - 3% biotite - 10% quartz - 80% plagioclase - trace sericite - trace epidote - trace very fine disseminated pyrite - red hematite stain - non-magnetic
7.0			EOH
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10- 10 Site No.: RC10 35 Location: E 444603 N 5813958 Elevation: 247m

Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 7:30-9:00AM Drilling Time: 9:00-10:30AM

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. A 25008 Bit Footage: 12.5-17.0

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0			0-0.6 <u>boulder - granodiorite</u>
1		01	0.6-2.8 <u>Till</u>
2		02	0.6-1.2 matrix supported, clay-rich, brown compact gritty clay/silt matrix; clasts 10% limestone 90% granitoid
3		NS 02	
4		03	1.2-2.8 matrix supported, very fine grained grey sand/silt; clasts 5% limestone 95% granitoid
5			2.0-2.4 <u>boulder - granodiorite</u>
6			2.4-2.8 till as above
7			
8			2.8-4.5 <u>Bedrock - Tonalite</u>
9			- white, black
10			- massive, porphyritic
11			- 0.5-1cm
12			- 10% hornblende
13			10% quartz
14			80% plagioclase
15			- non magnetic
16			- no alteration
17			4.5 EOH
18			
19			
20			

Hole No.: TPKRC-10- 11 Site No.: RC10-27 Location: E 444255 N 5813724 Elevation: 252
 Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 12:00-12:30 Drilling Time: 12:30-2:30 PM
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____ 10:30 to 12:00 replace two growzer bars on Nodwell
 Consumables: _____
 Bit No. AZ5008 Bit Footage: 17.0 - 27.0

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-0.3			Organics
0.3-1.2			boulders - no return
1.2-8.2			<u>Till</u>
1.2-2.2			matrix supported, very fine grained grey sand/silt matrix; clast compositions 5% limestone 95% granitoid trace volcanics
2.2-2.6			<u>boulder</u> pink granodiorite
2.6-5.6			matrix supported, very fine grey sand/silt matrix; 15% limestone 85% granitoid.
5.6-6.0			<u>boulder</u> - tonalite
6.0-8.2			matrix supported, very fine grey sand/silt matrix as above with occasional gritty grey clay coating on clasts between 6.0 and 6.5m; clast as above -- occasional pyrite cube in sample return
8.2-10.0			<u>Bedrock - Granodiorite</u> - black and white - massive, porphyritic - 1mm to 1cm - 8% biotite 2% hornblende 10% quartz 80% plagioclase no alteration
10.0			EOH

Hole No.: TPKRC-10-12 Site No.: RC-10-40 Location: E 444201 N 5814049 Elevation: 263m

Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 2:30 - 3:00 PM Drilling Time: 3:00 - 5:00 PM

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____ Change groutzer bar on Mudwell during drilling

Consumables: _____

Bit No. A25008 Bit Footage: 27.0 - 35.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 1.5	^ ^ ^		<u>Peat</u>
1 - 1.5	^ ^ ^		<u>boulder - tonalite</u>
1.5 - 4.5	^ ^ ^ ⊗		<u>Clay</u> moderately compact, non-gritty, grey
4.5 - 5.2			<u>boulder - tonalite</u>
5.2 - 6.8			<u>Till</u>
5.2 - 5.4	⊗		matrix supported very fine grained grey sand/silt matrix;
5.4 - 6.8	⊗		clasts 5% limestone 95% granitoid Tr volcanic
5.4 - 5.8	⊗	01	<u>boulder - tonalite</u>
5.8 - 6.8	⊗	02	<u>till as above</u>
6.8 - 8.5	▨		<u>Bedrock - Granodiorite</u>
			- white, black
			- massive, porphyritic
			- 1mm to 1cm
			2% hornblende
			9% biotite
			15% quartz
			80% plagioclase
			trace very fine disseminated pyrite
			non-magnetic
8.5			<u>EOH</u>

Hole No.: TPKRC-10-13 Site No.: RC 10 32 Location: E 44386Z N 5813950 Elevation: 254
 Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 5:00-5:30 PM Drilling Time: 5:30-6:00 PM March 7
7:30-11:00 AM March 8
 Moving Problems: _____
 Drilling Problems: look for water 8:30-9:30 AM
 Mechanical Problems: _____
 Consumables: New Bit
 Bit No. A 25908 Bit Footage: 0-6.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-1.0	^ ^ ^		<u>Organics</u>
1.0-3.5	^ ^ 		<u>clay</u> - soft, non-gritty grey
3.5-3.8			<u>boulder</u> - granodiorite
3.8-4.8			<u>Till</u> matrix supported, very fine grained grey sand/silt matrix; clast compositions 10% limestone 90% granitoid
4.8-6.5		01 02 03	<u>Bedrock - Tonalite</u> - white, black - massive, porphyritic - 1mm to 5mm 10% hornblende 10% quartz 80% plagioclase trace biotite trace disseminated pyrite
6.5			<u>EOH</u>
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10- 14 Site No.: RC1046 Location: E 443739 N 581440 Elevation: 255

Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 11:00-11:30 Drilling Time: 11:30-1:00PM

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. A25908 Bit Footage: 6.5-13.5

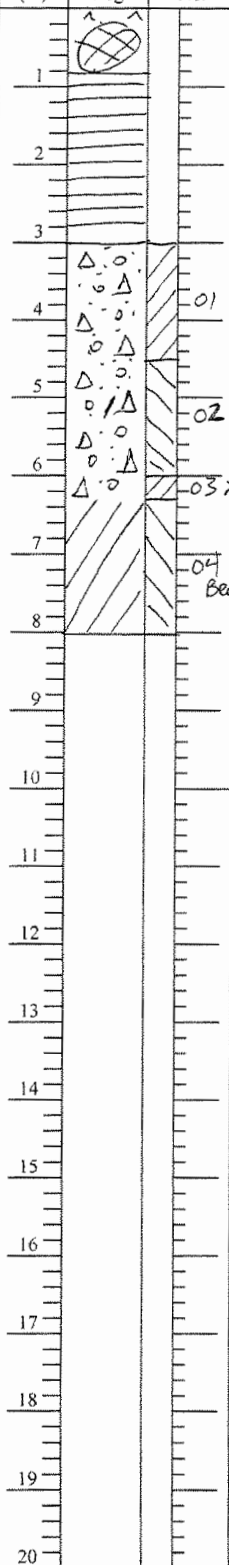
Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-2.0	^ ^		<u>Peat</u>
2.0-3.4	^ ^ ^ ^		<u>Clay</u> soft, non-gritty, grey
3.4-5.2	^ ^		<u>Till</u> - matrix supported, very fine grained grey sand/silt matrix with occasional gritty grey clay coating on clasts; clast compositions 5-10% limestone 90-95% granitoid
5.2-7.0	△ ○ △ ○ △ ○ △ ○ △ ○ △ ○	01 02	<u>Bedrock Tonalite</u> - white, black - massive, porphyritic - 0.1m to 1cm 10% hornblende 10% quartz 80% plagioclase trace biotite trace disseminated pyrite
7.0-20.0			<u>EOH</u>

Hole No.: TPKRC-10- 15 Site No.: RC10 39 Location: E 443586 N 5814186 Elevation: 258
 Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 1:00-1:30PM Drilling Time: 1:30- 2:30 PM
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: Repair water pump control valve on bean pump.
 Consumables: _____
 Bit No. A25908 Bit Footage: 13.5-20.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-1.5	^ ^ ^		<u>Peat</u>
1.5-2.8	^ ^ ^		<u>Clay</u> very soft non-gritty grey and beige clay/silt with abundant small snails and bivalves
2.8-5.4	^ ^ ^		<u>Till</u>
2.8-3.2	○		<u>boulder-tonalite</u>
3.2-5.4	△ ○	01	matrix supported, very fine grained grey sand/silt clast compositions 5-10% limestone 90-95% granitoid trace volcanics
5.4-6.0	△ ○	02	
6.0-7.0	▨	03 Bedrock	<u>Bedrock Tonalite</u>
7.0-8.0			- white, black - massive, porphyritic 1mm to 1cm
8.0-9.0			- 10% hornblende 1% biotite
9.0-10.0			10% quartz 80% plagioclase trace disseminated pyrite
10.0-11.0			
11.0-12.0			
12.0-13.0			
13.0-14.0			
14.0-15.0			
15.0-16.0			
16.0-17.0			
17.0-18.0			
18.0-19.0			
19.0-20.0			
20.0			

Hole No.: TPKRC-10-16 Site No.: RC-10-42 Location: E 443369 N 5814372 Elevation: 252
 Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 2:30-3:00PM Drilling Time: 3:00-4:00PM
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. AZ5908 Bit Footage: 20.5-28.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 0.2			<u>Forest Litter</u>
0.2 - 0.8			<u>boulder - tonalite</u>
0.8 - 3.0			<u>Clay</u> 0.8-1.0 dark brown organic-rich, compact 1.0-3.0 beige changing to grey, moderately compact, non-gritty
3.0 - 6.3			<u>Till</u> 3.0-5.0 matrix supported, very fine grained grey sand/silt matrix; clast compositions 40% limestone trace Fe formation 60% granitoid
5.0 - 6.3			matrix supported, very fine grained grey sand/silt and gritty grey clay/silt from 5.0-5.5m matrix; clasts 25-30% limestone 70-75% granitoid
6.3 - 8.0			<u>Bedrock - Tonalite</u> - white, black - massive, porphyritic - 1mm to 8mm 10% hornblende 10% quartz 80% plagioclase no alteration
8.0			<u>EOH</u>



* sample 03 is under size

Hole No.: TPKRC-10- 17 Site No.: RC-10-34 Location: E 443 193 N 503 903 Elevation: 253

Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 4:00-4:30 PM Drilling Time: 4:30-5:45 PM

Moving Problems: _____ clean mud tank 5:45-6:00 PM

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. A25908 Bit Footage: 28.5-35.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-2.5	^ ^		<u>Peat</u>
2.5-4.0	^ ^		<u>clay</u> very soft, non-gritty, grey
4.0-5.4	^ ^		<u>Till</u> large tonalite cobble at till surface matrix supported, very fine grained grey sand/silt matrix; clast compositions 5% limestone 95% granitoid
5.4-7.0	01 02 Bedrock		<u>Bedrock - Tonalite</u> - white, black - massive, porphyritic 1mm to 8mm from 5.4 to 6.5m - granular ~ 0.2 mm between 6.5 and 6.8m 10% hornblende trace biotite 10% quartz 80% plagioclase
7.0			<u>EOH</u>
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10- 18 Site No.: RC10-15 Location: E 444172 N 5813393 Elevation: 252
 Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 9:00-10:00 AM Drilling Time: 10:00- 11:30 AM
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: Mechanic check/repair rodwell 7:30-9:00 AM
 Consumables: _____
 Bit No. A25908 Bit Footage: 35.5-44.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 3.5	^ ^ ^ ^ ^ ^		Peat - small snails at base of organics
3.5 - 4.5	^ ^ ^ ^ ^ ^		Clay very soft, non-gritty, grey
4.5 - 7.4	^ ^ ^ ^ ^ ^		Till - matrix supported, very fine grained grey sand/silt matrix; clast compositions 5-10% limestone 90-95% granitoid
7.4 - 9.0	△ ○ △ ○ △ ○ △ ○ △ ○ △ ○	01 02 03 Bedrock	Bedrock - Tonalite - white, black - massive, porphyritic 0.1-0.8 mm - 10% hornblende 10% quartz 80% plagioclase Fe-stained fractures
9.0 - 20			9.0 EOH

Overburden Drilling Management Limited
Reverse Circulation Drill Hole Log

Date: March 9th 2010

Page: 1

Hole No.: TPKRC-10- 19 Site No.: RC 10- 22 Location: E 0443957 N 5813609 Elevation: 261

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 11:30 - 12:30 p.m. Drilling Time: 12:30 - 3:00 p.m.

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. A25908 Bit Footage: 44.5 - 49m

A26108 * New sub

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1			0-0.6m - <u>Forest litter</u>
2		<u>01*</u>	0.6-1.2m - <u>BOULDER</u> - tonalite
3		<u>02 80k</u>	1.2-3m <u>TILL</u> - unsorted - matrix supported; grey, fine sand (with minor silt component) matrix - granule to pebble sized clasts - clast lithology - 99% tonalite Tr. - proterozoic sediments Tr. - limestone
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
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3m-4.5m BEOROCK
- white with 10% mafic component
- massive; coarse grained - 0.2-1.0 cm
- no visible mineralization; no visible alteration.
- mineralogy - 80% plagioclase
10% quartz
10% hornblende

TONALITE

4.5m - E.O.H.

* SAMPLE 01 slightly undersized

Hole No.: TPKRC-10-20 Site No.: RC10 26 Location: E 443 566 N 5813 795 Elevation: 252
 Geologist: D. Holmes Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 3:00-3:30 Drilling Time: 3:30-5:00 PM
 Moving Problems: _____ move to next hole 5:00-6:00 PM
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A26108 Bit Footage: 6-10.0m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-0.1			<u>Forest Litter</u>
0.1-0.2			<u>Clay/silt</u> moderately compact, gritty, beige.
0.2-0.6		01	<u>boulder</u> - tonalite
at 0.6m			<u>clay/silt</u> as above
0.6-1.0		02	<u>boulder</u> - tonalite
1.0-2.2			<u>Till</u> - matrix supported
1.0-1.3			gritty beige clay matrix; clast compositions 2% limestone 98% granitoid
1.3-2.2			matrix supported to locally clast supported, very fine grained grey-beige sand/silt matrix; clasts 5% limestone 95% granitoid
2.2-4.0			<u>Bedrock</u> - <u>Tonalite</u> white, black massive, porphyritic 1mm to 1cm 10% hornblende 10% quartz 80% plagioclase no alteration
4.0			EDH

Overburden Drilling Management Limited
Reverse Circulation Drill Hole Log

Date: March 18th, 2010

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Hole No.: TPKRC-10- 21 Site No.: RC-10- 79 Location: E0444903 N 5812982 Elevation: 254
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 5:00-6:00pm (9th) Drilling Time: 12:15 - 1:50 p.m.
 Moving Problems: Freezing rain - helicopter doesn't fly until 11:30am.
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A26108 Bit Footage: 10.0 - 18.0m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0	^ ^		0 - 2.8m <u>ORGANICS</u> - forest litter and peat
1	^ ^		
2	^ ^		
3	^ ^ [cloud symbol]		3.0-3.5m <u>BOULDER</u> - tonalite
4	[diagonal lines]		3.5-4.0m <u>CLAY</u> - no drilling resistance; grey; sorted; soft
5	[diagonal lines] 01 [cloud symbol] NS	01	4.0-6.5m <u>TILL</u> - unsorted; matrix supported; grey, fine sand matrix - granule to pebble sized clasts - clast lithology - 80% tonalite 5-10% mafic volcanic and sediments 5-10% limestone 5% granodiorite (pink K-feldspar in rock)
6	[diagonal lines] 02	02	
7	[diagonal lines] 03 BOK	03	
8	[diagonal lines]		* Sample 01 slightly undersized
9			(4.8-5.2m <u>BOULDER</u> - tonalite)
10			
11			
12			6.5-8.0m <u>BEDROCK</u>
13			- white and black; massive; no visible alteration
14			- coarse grained (2-10mm); visible pyrite
15			- Mineralogy - 80% plagioclase 20% hornblende 5% quartz Tr. Pyrite - disseminated - some stringers
16			
17			<u>TONALITE</u>
18			8m. E.O.H.
19			
20			

Hole No.: TPKRC-10- 22 Site No.: RC-10-75 Location: E 0445222 N 5812783 Elevation: 265

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 1:50 - 2:15 Drilling Time: 2:15 - 3:45 p.m.

Moving Problems: _____

Drilling Problems: Don't find till in 1st hole; moved ~ 3.4m and redrilled; still no till section - clay right on bedrock

Mechanical Problems: _____

Consumables: * NEW BIT

Bit No. A26108 Bit Footage: 18.0 - 22.5

* B45808
0 - 2.6m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1			* Appears to be bedrock outcrop ~ 50m to the west, on top of small hill.
2			0 - 0.2m - <u>FOREST LITTER</u>
3			0.2 - 2.6m - <u>CLAY</u>
4		<u>0.1 rock</u>	- sorted; brown (oxidized) clay; non-gritty - very soft - drill penetrates with little resistance
5			2.5m - clay has ~ 5% granitoid and limestone granules
6			2.6 - 4.5m - <u>BEDROCK</u>
7			- white and black; massive; no visible alteration
8			- coarse grained (2-10mm)
9			- visible sulphides -
10			- mineralogy - 75% - plagioclase 20% - hornblende 5% - quartz tr - pyrite - disseminated
11			<u>TONALITE</u>
12			4.5m - <u>E.O.H.</u>
13			
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17			
18			
19			
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Hole No.: TPKRC-10- 23 Site No.: RC-10-09 Location: E 0493645 N 5813096 Elevation: 263m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 3:45-6:00 (10th) Drilling Time: 11:20-1:00 p.m.
 Moving Problems: - water in fuel of drill (~45min) 7:50-11:20 a.m. (11th)
 Drilling Problems: _____
 Mechanical Problems: - Drill won't turn left (takes longer to move) ~ 1hr extra to get to site
 Consumables: _____
 Bit No. B45808 Bit Footage: 2.6-7.1m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-0.2			0-0.2m <u>Forest litter</u>
0.2-2.2		01	0.2-2.2m - <u>CLAY</u> - very soft; drill with little resistance - brown (oxidized) - non-gritty; sorted
1.6-2m		02 BOX	(1.6-2m - <u>BOULDER</u> - Tonalite)
2.2-3.0			2.2-3.0m <u>TILL</u> - unsorted; matrix supported; grey to dark grey, fine sand matrix. - granule to pebble sized clasts - clast lithology - 90% tonalite ± granodiorite 5% mafic volcanics / sediments 5% limestone
3m-4.5m			3m-4.5m - <u>BEDROCK</u> - white and black; massive; coarse grained (2-10mm) - no visible alteration; rare disseminated pyrite (very fine grained) - mineralogy - 70% plagioclase 25% hornblende 5% quartz tr pyrite
4.5m			4.5m E.O.H.
1			
2			
3			
4			
5			
6			
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Hole No.: TPKRC-10-24 Site No.: RC-10-14 Location: E044352 N 5813352 Elevation: 244m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 1:00 - 1:45 Drilling Time: 1:45 - 3:30
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. B45808 Bit Footage: 7.1 - 15.5m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 2.0	^^ ^^ ^^ ^^ ^^		0 - 2.0m - <u>ORGANICS</u> - forest litter and peat
2 - 3.2	=====		2 - 3.2m - <u>CLAY</u> - very soft; drill with little resistance - brown (oxidized); non-gritty; sorted
3.2 - 6.7	Δ ○ ○ Δ Δ ○ ○ Δ Δ ○ ○ Δ	01 02* 03*	3.2 - 6.7m - <u>TILL</u> - unsorted; matrix supported; grey, fine sand matrix - granule to pebble sized clasts - clast lithology - 90% tonalite 5% mafic volcanics / sediments (some with hematite stain) 5% limestone
6.7 - 8.3	XXXXXX	04BAC	6.7 - 8.3m <u>BEDROCK</u> - white and black; massive; coarse grained (2-8mm) - no visible alteration; no visible mineralization - mineralogy - 80% plagioclase 15% hornblende 5% quartz
8.3 - 20			8.3m E.O.H.
9			* Sample 2 - pull rod to wash out more sample - return is coarse bias
10			* Sample 3 - slightly undersized - pull rod to wash out more sample - coarse bias
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19			
20			

Hole No.: TPKRC-10-25 Site No.: RC-10-18 Location: E 0443138 N 5813513 Elevation: 258m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 3:30-4:15 p.m. Drilling Time: 4:15-6:00 p.m.
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. 645808 Bit Footage: 15.5 - 23m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-0.2	Λ Λ		0.0-0.2m - <u>FOREST LITTER</u>
0.2-1.0	Δ ○	01	0.2-1.0m - <u>CLAY</u> - brown, soft; very little drilling resistance - sorted; non-gritty
1.0-6.0	Δ ○	02	
	Δ ○	03	1.0-6.0m - <u>TILL</u> - unsorted; matrix supported; beige to light brown, fine sand matrix - granule to pebble sized clasts - clast lithology - 60% tonalite and granodiorite 20% mafic volcanics / sediments 20% limestone
	Δ ○	04*	
	0580X		4m - visible disseminated pyrite in tonalite clasts 5.2m - matrix turns grey
6.0-7.5			* Sample 4 - wash hole 5 times to obtain enough sample - sample return gets more coarse with each wash
6.0-7.5			6.0-7.5m - <u>BEOROCK</u> - white and black; massive; coarse grained (2-8mm) - no alteration; no visible mineralization - mineralogy - 75% plagioclase 20% hornblende 5% quartz
7.5			7.5m E.O.H.
8			
9			
10			
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19			
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Hole No.: TPKRC-10- 26 Site No.: RC-10- 07 Location: E 0443271 N 5812973 Elevation: 265 m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 8:00 - 9:50 a.m. Drilling Time: 9:50 - 12:00
 Moving Problems: _____
 Drilling Problems: Thin, cobby till intersection and difficult to obtain sufficient fine fraction; Drill hole 3 separate times, ~50m apart
 Mechanical Problems: to obtain enough for sample 01.
 Consumables: _____
 Bit No. B45808 Bit Footage: 23.270 m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 0.2			0. - 0.2m <u>FOREST LITTER</u>
0.2 - 1.0		01*	0.2 - 1.0m <u>BOWLOER</u> - tonalite
1.0 - 1.4		02BOK	1.0 - 1.4 - <u>CLAY</u> - sorted; grey; soft. drill penetrates with little resistance - non-gritty
1.4 - 2.2			1.4 - 2.2m <u>TILL</u> - unsorted; clast supported; beige to grey, fine sand matrix - granule to cobble clasts (high abundance of cobbles) - very little matrix returning - clast lithology - 95% tonalite 5% mafic volcanics and sediments tr limestone
			* Sample 01 - undersized after drilling 3 holes
2.2 - 4.0			2.2 - 4.0m <u>BEDROCK</u> - white and black; massive; coarse grained (2.8mm) - no visible alteration; no visible mineralization - mineralogy - 85% plagioclase 10% hornblende 5% quartz
			<u>TONALITE</u>
4.0			4.0m - E.O.H.

Hole No.: TPKRC-10- 27 Site No.: RC-10-10 Location: E0442903 N 5813118 Elevation: 259

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 12:00-12:45pm Drilling Time: 12:45-3:15pm

Moving Problems: _____

Drilling Problems: - Need to wash hole several times to obtain sufficient sample sizes

Mechanical Problems: _____

Consumables: _____

Bit No. 645808 Bit Footage: 27.0 - 37.3m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1			0 - 0.8m - <u>BOULDER</u> - Tonalite
2		01	0.8 - 1.2m - <u>CLAY</u> - very soft, sorted; brown (oxidized); non-gritty - drill penetrates with little resistance
3		02	1.2 - 1.4m - <u>BOULDER</u> - Tonalite
4		03	1.4 - 2.2m <u>TILL</u> - unsorted; clast supported; beige, fine sand matrix - granule to pebble sized clasts - clast lithology - 80% tonalite and granodiorite 15% mafic volcanics and sediments 5% limestone
5		04	@ 3.2m - matrix supported till - same description as above
6		05	@ 5.5m - clast lithology - 40% limestone 40% mafic volcanics and sediments 20% tonalite and granodiorite
7		0680K	@ 8.0m - matrix is grey in colour. same description as above
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

9.2 - 10.3m - BEOROCK
- white and black; massive; coarse grained (2-8mm)
- no visible alteration; no visible mineralization
- mineralogy - 85% plagioclase
10% hornblende
5% quartz
tr. K-feldspar

TONALITE

10.3 E.O.H

(Drill bit breaks apart - cannot continue down hole)

Hole No.: TPKRC-10- 28 Site No.: Rc-10-16 Location: E 0442621 N 5813386 Elevation: 255m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 3:15-4:00 p.m. Drilling Time: 4:00-6:00 p.m.
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A26008 Bit Footage: 0.11.0m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-0.2	△△		0.0-0.2m - <u>FOREST LITTER</u>
0.2-1.0	△ ○	01	0.2-1.0m - <u>CLAY</u> - very soft; sorted; brown (oxidized); non-gritty - drill with little resistance
1.0-9.5	△ ○	02	1.0-9.5m <u>TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to pebble sized clasts - clast lithology - 65% tonalite and granodiorite 25% mafic volcanics / sediments 10% limestone
4.5	△ ○		@ 4.5m - clast lithology - 45% tonalite and granodiorite 30% mafic volcanics / sediments 25% limestone
6.2	△ ○		@ 6.2m - matrix is grey - same description as above
8.0	△ ○		@ 8.0m - clast lithology - 70% tonalite and granodiorite 25% mafic volcanics / sediments 5% limestone (limestone percentage decreases with depth)
9.5-11.0	△ ○		9.5-11.0m - <u>BEDROCK</u> - white and black; massive; coarse grained (1-6mm) - no visible alteration; no visible mineralization - mineralogy - 80% plagioclase 15% hornblende 5% quartz tr. biotite <u>TONALITE</u> 11m - E.O.H.
10	△ ○	06 BOK	
11	△ ○		
12			
13			
14			
15			
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17			
18			
19			
20			

Hole No.: TPKRC-10- 29 Site No.: RC-10-19 Location: E 0442273 N 5813553 Elevation: 243 m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 7:45-12:45 pm Drilling Time: 12:45- 1:50 pm

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: grease cylinder holding front right wheel (puts tension on track) falls off - ~3hrs

Consumables: Bolts on drill head strip off - drill rods don't rotate - 1 hr

Bit No. A26008 Bit Footage: 11.0 - 17.2 m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0	^^		0 - 0.2m. <u>Forest litter</u>
1			0.2 - 2.8m. <u>CLAY</u>
2			- sorted; soft - drill penetrates with little resistance
3			- brown (oxidized); non gritty
4		01	2.8 - 3.0m. <u>BOWLDER</u> - tonalite
5		02 BOK	3.0 - 4.6m <u>TILL</u>
6			- unsorted; matrix supported; grey, fine sand matrix
7			- granule to pebble sized clasts
8			- clast lithology - 60% tonalite / granodiorite
9			30% mafic volcanics / sediments
10			10% limestone
11			4.6 - 6.2m <u>BEOROCK</u>
12			- white and black; massive; coarse grained (2-8mm)
13			- no visible alteration; disseminated, fine grained pyrite
14			- mineralogy - 75% plagioclase
15			15% hornblende
16			10% quartz
17			Tr pyrite
18			<u>TONALITE</u>
19			6.2m E.O.H.
20			

Hole No.: TPKRC-10-30 Site No.: RC-10-28 Location: E 0442190 N 5815785 Elevation: 248m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 1:50 - 2:20 p.m. Drilling Time: 2:20 - 5:45 p.m.
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A26008 Bit Footage: 17.2 - 28.5m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0	^^		
0 - 0.2			<u>FOREST LITTER</u>
0.2 - 1.0m			<u>CLAY</u> - sorted; soft - drill penetrates with little resistance - brown (oxidized); non-gritty
1.0 - 1.7m			<u>BOULDER</u> tonalite
1.7 - 9.8m			<u>TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to pebble sized clasts - clast lithology - 60% tonalite / granodiorite 30% mafic volcanics / sediments 10% limestone (till section has a lot of tonalite boulders and cobbles)
4.2m			matrix turns to grey in colour clast lithology - 50% tonalite / granodiorite 30% mafic volcanics / sediments 20% limestone
7.5m			clast lithology - 65% tonalite / granodiorite 30% mafic volcanics / sediments 5% limestone
9.8 - 11.3m			<u>BEDROCK</u> - white and black; massive; coarse grained (1-6mm) - no visible alteration; no visible mineralization - mineralogy - 60% plagioclase 30% hornblende 10% quartz Tr - biotite
			<u>TONALITE</u>
11.3m			<u>E.O.H.</u>

Hole No.: TPKRC-10- 31 Site No.: Rc-10 - 36 Location: E044 2671 N 5814107 Elevation: 240m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 8:45 - 9:30 am Drilling Time: 9:30 - 1:20 pm
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. B45708 (NEW BIT) Bit Footage: 0 - 11.4m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1	^ ^ [Sketch of forest litter]		0.0-0.2m <u>FOREST LITTER</u>
2	Δ ○ ○ Δ [Sketches of boulders]	01*	0.2-0.9m <u>BOULDER</u> - pink granitoid
3	Δ ○ ○ Δ [Sketches of till]		0.9-9.8m <u>TILL</u>
4	Δ ○ ○ Δ [Sketches of till]	02	- unsorted; matrix supported; light beige, fine sand matrix - granule to pebble sized clasts
5	Δ ○ ○ Δ [Sketches of till]	03	- clast lithology - 60% tonalite / granodiorite 25% mafic volcanics / sediments 15% limestone
6	[Sketch of boulder]	NS	
7	Δ ○ ○ Δ [Sketches of till]	04	* Sample 01 - undersized - cannot obtain good seal because of overlying boulder - wash hole several times - sample weighed at 6.3 kg (tonalite boulders and cobbles throughout section)
8	Δ ○ ○ Δ [Sketches of till]	05	3.2m - fine sand matrix turns grey
9	[Sketch of boulder]	NS	5.0m - clast lithology - 80% tonalite / granodiorite 15% mafic volcanics / sediments 5% limestone
10	Δ ○ ○ Δ [Sketches of till]	06	
11	[Cross-hatched pattern]	07 BOK	7.0m - till is clast supported - same description as above
12			8.7m - clast lithology - 95% granitoid 5% mafic volcanics / sediments tr limestone
13			9.8 - 11.4m <u>BEDROCK</u>
14			- light pink; massive; medium grained (0.5 - 2mm) - no visible mineralization
15			- mineralogy - 75% plagioclase 10% K-feldspar 10% hornblende 5% quartz tr biotite tr epidote
16			
17			
18			Granodiorite?
19			11.4m E.O.H
20			

Hole No.: TPKRC-10-32 Site No.: RC-10-31 Location: E0442475 N 5813942 Elevation: 250m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 1:20 - 1:50 p.m. Drilling Time: 1:50 - 4:20 p.m.

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. A25708 (NEW BIT) Bit Footage: 0.9m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0			
1			0. - 0.8m. <u>BOULDER</u> - tonalite
2		01	0.8 - 7.4m <u>TILL</u>
3			- unsorted; matrix supported; beige, fine sand matrix
4		02	- granite to pebble sized clasts
5			- clast lithology - 45% tonalite / granodiorite
6		03	30% mafic volcanics / sediments
7			25% limestone
8		04	
9		05 <u>Block</u>	3.9m. <u>BOULDER</u> - tonalite
10			4.3m. Till - same description as above
11			7.0m. clast supported - clast lithology - 60% tonalite / granodiorite
12			25% mafic volcanics / sediments
13			15% limestone
14			7.4 - 9m. <u>BEDROCK</u>
15			- white and black; massive; coarse grained (2-8mm)
16			- no visible alteration; no visible mineralization
17			- mineralogy - 85% plagioclase
18			10% hornblende
19			5% quartz
20			9.0m E.O.H

Hole No.: TPKRC-10- 33 Site No.: RC-10-43 Location: E 0442639 N 5814347 Elevation: 257m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 4:20 - 5:00 (14^m) Drilling Time: 5:00 - 7:00 (14^m)
 Moving Problems: _____ 8:30 - 10:15 (15^m)
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A 25708 Bit Footage: 9 - 19.5m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1	^^		0 - 0.2m. <u>FOREST LITTER</u>
2	Δ ○	01	0.2 - 1.6m. <u>CLAY</u> - soft; sorted; brown (oxidized); non-gritty
3	○ Δ		1.6 - 8.8m <u>TILL</u>
4	Δ ○	02	- unsorted; matrix supported; beige, fine sand matrix - granule to pebble sized clasts - clast lithology - 45% tonalite/granodiorite 30% mafic volcanics/sediments 25% limestone
5	○ Δ	03	
6	Δ ○		4m - matrix turns grey in colour
7	○ Δ	04	
8	Δ ○	05	6.6m - clast supported - lithology - 60% tonalite/granodiorite 30% mafic volcanics/sediments 10% limestone
9	○ Δ		
10	XXXXXX	0660K	* Sample 04 - s lightly undersized
11			8.8 - 10.5m. <u>BEOROCK</u>
12			- white and black; massive; coarse grained (2-8mm)
13			- no visible alteration; disseminated, fine grained pyrite
14			- mineralogy - 85% plagioclase 10% hornblende 5% quartz tr pyrite
15			
16			
17			10.5m E.O.H.
18			
19			
20			

Hole No.: TPKRC-10-34 Site No.: RC-10-24 Location: E 0442053 N 5813629 Elevation: 254m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 10:15 - 11:30 a.m. Drilling Time: 11:30 - 12:45 p.m.
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A25708 Bit Footage: 19.5 · 25.2

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 2.0	^^ ^^ ^^ ^^ ^^		<u>ORGANICS</u> - Peat
2.0 - 2.5	 		<u>CLAY</u> - grey; soft; sorted; non-gritty - drill penetrates with little resistance
2.5 - 2.7	△ ○ △ ○	01	<u>BOULDER</u> - tonalite
2.7 - 3.2	XXXXXX XXXXXX XXXXXX	0260X	<u>CLAY</u> - same description as above
3.2 - 4.2			<u>TILL</u> - unsorted; clast supported; dark grey, fine sand matrix - granule to cobble sized clasts - clast lithology - 95% tonalite / granodiorite 5% mafic volcanics / sediments tr. limestone
4.2 - 6.2			<u>BEDROCK</u> - white and black (minor pink areas); massive; coarse grained (1-8mm) - no visible alteration; no visible mineralization - mineralogy - 80% plagioclase 15% hornblende 5% quartz Tr. K-feldspar Tr. biotite
			<u>TONALITE</u> 6.2m - E.O.H.
6.2 - 20			

Hole No.: TPKRC-10- 37 Site No.: RC-1033 Location: E0441577 N 5813973 Elevation: 256m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 6:15 - 7:00 p.m. (15th) Drilling Time: 8:45 - 1:20 p.m.

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: Difficult time starting compressor - change starter - 2hr

Consumables: _____

Bit No. A15708 Bit Footage: 39.9 - 47.2m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 0.5m	^^ ^^ ○		<u>FOREST LITTER</u>
0.5 - 1.3m	△ ○ ○ △ △ ○	01	<u>BOULDER - tonalite</u>
1.3 - 5.6m	△ ○ ○ △ △ ○ ○ △ △ ○ ○ △ △ ○ ○ △	02 03*	<u>TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to pebble sized clasts - clast lithology - 60% tonalite / granodiorite 25% mafic volcanics / sediments 15% limestone
5.6 - 7.3m	□	04	2.5m - matrix is grey in colour
7.3m			* Sample 03 - undersized (8.4kg on drill)
5.6 - 7.3m			<u>BED ROCK</u> - white and black; massive; coarse grained (2-8mm) - ; fine grained disseminated pyrite - mineralogy - 75% plagioclase 15% hornblende 10% quartz tr - pyrite tr - epidote tr - biotite
			<u>TONALITE</u>
7.3m			<u>E.O.H.</u>
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

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Hole No.: TPKRC-10- 38 Site No.: RC-10-123 Location: E0441624 N 5813479 Elevation: 261m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 1:20- 2:00 p.m. Drilling Time: 2:00- 4:00 p.m.

Moving Problems: _____

Drilling Problems: Drill hole twice to obtain enough sample

Mechanical Problems: _____

Consumables: 2 new bits - 1 new sub (1st bit has offset threads - stripped)

Bit No. B45608
B45908

Bit Footage: 0.5m
0-3.5m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-0.2	^^		<u>FOREST LITTER</u>
0.2-1.0			<u>CLAY</u> - brown (oxidized); soft; sorted; non-gritty
1.0-2.3		01	<u>BOULDERS & COBBLES</u> - tonalite
2.3-3.4		0260K	<u>TILL</u> - unsorted; matrix supported; beige to brown, fine sand matrix - granule to cobble sized clasts - clast lithology - 70% tonalite / granodiorite 25% mafic volcanics / sediments 5% limestone
3.4-5.0			<u>BEDROCK</u> - white and black; massive; coarse grained (2-8cm) - fine grained, disseminated pyrite - mineralogy - 70% plagioclase tr- pyrite 20% hornblende 10% quartz tr epidote
			<u>TONALITE</u>
			* REDRILL HOLE TO OBTAIN ENOUGH SAMPLE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10-39 Site No.: RC-10-23 Location: E 0441357 N 5013621 Elevation: 248m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 4:00 - 4:40 p.m. Drilling Time: 4:40 - 5:30 p.m.

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. B45909 Bit Footage: 3.5 - 7.7m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0	^ ^		
1	^ ^ ○		0 - 0.6m . <u>FOREST LITTER</u>
2	△ ○ ○ △ △ ○	01	0.6 - 1.0m . <u>BOWDER</u> - tonalite
3	△ ○ ○ △		1.0 - 2.5m . <u>TILL</u>
4	△ ○ ○ △	02BOK	<ul style="list-style-type: none"> - unsorted ; matrix supported ; beige , fine sand matrix - granule to pebble sized clasts - clast lithology - 75% tonalite / granodiorite 15% mafic volcanics / sediments 10% limestone
5			
6			
7			2.5 - 4.2m . <u>BEOROCK</u>
8			<ul style="list-style-type: none"> - white and black ; massive ; coarse grained (2-8mm) - trace, fine grained, disseminated pyrite. - mineralogy - 80% plagioclase 10% hornblende 10% quartz tr pyrite tr epidote
9			
10			
11			
12			<u>TONALITE</u>
13			<u>4.2m E.O.M.</u>
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10- 40 Site No.: QC-10-38 Location: E 041117 N 5814143 Elevation: 248m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 5:30 - 6:10 (16th) Drilling Time: 6:10 - 6:45pm (16th)
8:45 - 12:00pm (17th)
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. 845908 Bit Footage: 7.7 - 17.7m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 0.4			0. - 0.4m - FOREST LITTER
0.4 - 1.0		01*	0.4 - 1.0m - BOULDER - tonalite
1.0 - 8.5			1.0 - 8.5m - TILL - unsorted; matrix supported; beige, fine sand matrix - granule to cobble sized clasts - clast lithology - 70% tonalite / granodiorite 20% mafic volcanics / sediments 10% limestone
1.2 - 2.3		NS 04	1.2 - 2.3m - Boulders - tonalite
3.2 - 7.2			* Sample 01 - undersized - wash hole several times 3.2m - fine sand matrix turns grey in colour 7.2m - visible pyrite in clasts
8.5 - 10.0			8.5 - 10.0m - BEDROCK - white and black; massive; coarse grained (2-8mm) - no visible mineralization - mineralogy - 75% plagioclase tr. epidote 20% hornblende tr. biotite 5% quartz TONALITE 10.0m E.O.H.
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10- 41 Site No.: RC-10-44 Location: E0440802 N 581449Z Elevation: _____
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 12:00 - 1:00 p.m. Drilling Time: 1:00 - 4:45 p.m.
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: New Bit - New Sub
 Bit No. J257107 Bit Footage: 0 - 16m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1			* Drilling on topographic high - slight incline for last 200m
2			0-0.4m - <u>FOREST LITTER</u>
3			0.4-1.2m - <u>CLAY</u>
4		01	- sorted; dark brown (oxidized); soft; non-gritty - drill penetrates with little resistance
5		02	1.2-2.5m - <u>BOULDERS & COBBLES</u> - tonalite
6			2.5-14.3m - <u>TILL</u>
7			- unsorted; clast supported; beige, fine sand matrix
8			- granule to cobble sized clasts
9			- clast lithology - 60% tonalite / granodiorite 25% mafic volcanics / sediments 15% limestone
10			4.1m - grey, fine sand matrix; matrix supported
11			- minor clay component to matrix
12		06	- clast lithology - 40% tonalite / granodiorite 30% mafic volcanics / sediments 30% limestone
13		07	11.6m - Boulder - mafic volcanic
14			* Sample 07 undersized
15		08 BOK	14.3-16.0m - <u>BEDROCK</u>
16			- white and black; massive; coarse-grained (2-8mm) - visible mineralization (pyrite)
17			- mineralogy - 75% plagioclase tr pyrite 15% hornblende 10% quartz tr - epidote tr - biotite
18			
19			<u>TONALITE</u>
20			16m E.O.H.

Hole No.: TPKRC-10- 42 Site No.: RC-10 -37 Location: E 049.0497 N 5814133 Elevation: 272m
 Geologist: B. Sturpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 4:45-5:15 Drilling Time: 5:15-7:00pm (17th)
 Moving Problems: _____ 9:00-11:00 am (18th)
 _____ 4:00-6:00 pm (18th)
 Drilling Problems: 5 hrs downtime - crew change for Bradley Bro. - plane taking workers in and out is late
 Mechanical Problems: _____
 Consumables: _____
 Bit No. J237107 Bit Footage: 16- 33.5m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-0.4	△△		FOREST LITTER
0.4-1.8	△○	01	CLAY - soft; brown (oxidized); sorted; non-gritty - drill penetrates with little resistance
1.8-11.6	△/	02	TILL - unsorted; matrix supported; beige, fine sand matrix - granule to pebble sized clasts - clast lithology - 55% tonalite / granodiorite 20% mafic volcanics / sediments 25% limestone
			* SAMPLE 01 - undersized - 7.5Kg on drill
4.6	△/	04	CLAY TILL - soft, grey clay matrix (minor fine sand layers) - clast lithology - 40% limestone 50% mafic volcanics / sediments 10% granitoid (difficult obtaining enough sample)
10.8	△/	05	TILL - unsorted; clast supported; grey, fine sand matrix - granule to cobble clasts - lithology - 85% tonalite / granodiorite 10% mafic volcanic / sed. mat. 5% limestone - visible pyrite in clasts
11.6-14.6	△○	06	SAND & GRAVEL - coarse sand to pebbles; moderately sorted - no fine matrix - clast lithology - same as above till section
12.5	○	NS	sand to coarse sand - trace granules - well sorted
14.6-15.7	△○	08	TILL - unsorted; matrix supported; grey, fine sand matrix - granule to pebble sized clasts - clast lithology - 90% tonalite / granodiorite 5% mafic volcanic 5% limestone
15.7-17.3	□	09BOK	BEDROCK - white and black with minor pink hematite staining - massive; coarse grained (1-6mm); no visible mineralization - mineralogy - 85% plagioclase 10% hornblende 5% quartz TONALITE
17.3			E.O.H

Hole No.: TPKRC-10-43 Site No.: RC-10-30 Location: E 0440874 N 5813876 Elevation: 270m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 6:00-7:00 p.m. (10th) Drilling Time: 8:30-12:45 p.m.
 Moving Problems: _____
 Drilling Problems: hole was drill twice; ~4m from each other - not enough sample from 1st hole
 Mechanical Problems: replace water swivel (~30 minutes)
 Consumables: _____
 Bit No. V237107 Bit Footage: 33.5-39.5m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1			0-0.4m - <u>FOREST LITTER</u>
2		01	0.4-0.8m - <u>BOWLOER</u> : tonalite
3			0.8-3.6m - <u>TILL</u>
4		02	- unsorted; matrix supported; beige to brown, fine sand matrix
5			- granule to cobble clasts
6		0380K	- clast lithology - 55% tonalite / granodiorite 25% mafic volcanic / sediments 20% limestone
7			(boulders are all tonalite)
8			3.6-4.4m - <u>SAND & GRAVEL</u>
9			- moderately sorted; no fine matrix
10			- sand to pebbles - lithology - 40% tonalite / granodiorite 30% mafic volcanic / sediments 30% limestone
11			4.4-6.0m <u>BEDROCK</u>
12			- white and black; massive; coarse grained (2-8mm)
13			- trace, disseminated, fine grained pyrite
14			- mineralogy - 75% plagioclase tr epidote 15% hornblende tr biotite 10% quartz tr. pyrite
15			<u>TONALITE</u>
16			6m - E.O.H.
17			
18			
19			
20			

Hole No.: TPKRC-10-44 Site No.: RC-10-47 Location: E 0440895 N 5813389 Elevation: 264m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 12:45 - 1:15 p.m. Drilling Time: 2:30 - 5:15 p.m.
 Moving Problems: _____
 Drilling Problems: Drill hole twice to obtain enough sample
 Mechanical Problems: Belt on compressor breaks - replaced (1h 15min)
 Consumables: NEW BIT

Bit No. J237107 Bit Footage: 39.5 - 43.0m
J237807 0 - 3.5m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1			0 - 0.2m - <u>FOREST LITTER</u>
2		01	0.2 - 0.7m - <u>BOWLDER</u> - tonalite
3		0260K	0.7 - 1.8m <u>TILL</u> - unsorted; matrix supported; beige to brown, fine sand matrix - granule to cobble clasts - - clast lithology - 80% tonalite/granodiorite 15% mic volcanics / sediments 5% limestone
4			
5			
6			
7			1.8 - 3.5m - <u>BEOROCK</u> - pink with hematite staining; medium to coarse grained (0.5-5mm) - massive; no visible alteration - trace, disseminated, fine grained pyrite - mineralogy - 85% plagioclase tr. pyrite 10% quartz tr. K. feldspar 5% hornblende
8			
9			
10			
11			<u>TONALITE</u>
12			3.5m E.O.H.
13			
14			
15			
16			
17			
18			
19			
20			

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Hole No.: TPKRC-10- 45 Site No.: RC-10-117 Location: E0441023 N 5813214 Elevation: 262m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 5:00 - 5:30 p.m. Drilling Time: 5:30 - 6:30 p.m.



Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. J237807 Bit Footage: 3.5 - 5.9m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0	^ ^		
1			0. - 0.4m <u>FOREST LITTER</u>
2		0180K	0.4 - 2.4m <u>BEOROCK</u>
3			- white and black; massive; coarse grained (2-8mm)
4			- trace, disseminated, fine grained pyrite
5			- mineralogy - 75% plagioclase tr pyrite 15% hornblende tr epidote 10% quartz
6			<u>TONALITE</u>
7			2.4m - E.O.H.
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10- 46 Site No.: RC-10-47 Location: E 0442155 N 5814622 Elevation: 246m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 8:30 - 10:30 a.m. Drilling Time: 10:30 - 1:00 a.m.
 Moving Problems: ~3km move _____
 Drilling Problems: Must redrill hole ~4m away to obtain enough till for Sample 01 _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. J237807 Bit Footage: 5.9 - 11.9m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 1.2	^ ^ ^ ^ ^ ^		<u>ORGANICS</u> - forest litter and peat
1.2 - 1.4	△ ○ ○ △ NS	01	<u>CLAY</u> - grey; soft, sorted; non-gritty - drill penetrates with little resistance
1.4 - 4.3	△ ○ ○ △ NS 0360k	02	<u>TILL</u> - unsorted; matrix supported; grey, fine sand matrix - granule to pebble sized clasts - clast lithology - 55% tonalite / granodiorite 25% mafic volcanic / sediments 20% limestone
4.3 - 6.0			<u>BEDROCK</u> - white and black; massive; coarse-grained (2-8mm) - no visible mineralization - mineralogy - 70% plagioclase 20% hornblende 10% quartz tr. epidote
			<u>TONALITE</u>
			6.0m E.O.H.
6.0 - 7.0			
7.0 - 8.0			
8.0 - 9.0			
9.0 - 10.0			
10.0 - 11.0			
11.0 - 12.0			
12.0 - 13.0			
13.0 - 14.0			
14.0 - 15.0			
15.0 - 16.0			
16.0 - 17.0			
17.0 - 18.0			
18.0 - 19.0			
19.0 - 20.0			

Hole No.: TPKRC-10-47 Site No.: Re-10-49 Location: E 0441786 N 5814937 Elevation: 248m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 1:00 - 1:30 p.m. Drilling Time: 1:30 - 3:45 p.m.

Moving Problems: _____

Drilling Problems: at 3m, 2nd rod shears off at the threads leaving 1st rod, 1 bit and 1 sub down the hole

Mechanical Problems: _____

Consumables: 1 bit, 1 sub, 2 rods

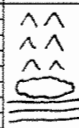



Bit No. J237807 Bit Footage: 11.9 - 14.9m
K246307 0 - 5.8m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 1.0	^^ ^^ ^^ 		<u>ORGANICS</u> - forest litter and peat moss
1.0 - 2.4			<u>CLAY</u> - grey; soft; sorted; non-gritty - drill penetrates with little resistance
2.4 - 4.2	△○ ○△ △○ ○△ 	01 02BOK	<u>TILL</u> - unsorted; matrix supported; grey, fine sand matrix - granule to pebble sized clasts - clast lithology - 55% tonalite / granodiorite 30% mafic volcanics / sediments 15% limestone
4.2 - 5.8			<u>BEDROCK</u> - white and black; massive; medium grain size (0.5-4mm) - no visible alteration; no visible mineralization - mineralogy - 85% plagioclase 10% quartz 5% hornblende tr biotite
5.8 - 20			<u>TONALITE</u> 5.8m E.O.H.

Hole No.: TPKRC-10- 48 Site No.: RC-10-50 Location: E 0441350 N 5815132 Elevation: 258m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 3:30 - 4:10 p.m. Drilling Time: 4:10 - 6:30 p.m.
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. K246307 Bit Footage: 5.8 - 14.5

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 1.2	^^ ^^ ^^ 		0 - 1.2m. <u>ORGANICS</u> - forest litter and peat
1.2 - 2.0		01	1.2 - 2.0m. <u>BOULDER</u> tonalite
2.0 - 7.1		02 03	2.0 - 7.1m. <u>TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to cobble clasts - clast lithology - 55% tonalite/granodiorite 30% mafic volcanics/sediments 15% limestone
7.1 - 8.7		04	2.5m - matrix turns grey 7.1 - 8.7m <u>BEDROCK</u> - white and black with minor pink hematite staining - massive; coarse-grained (2-10mm) - trace, fine-grained, disseminated pyrite - mineralogy - 65% plagioclase 1-2% epidote 20% hornblende tr. biotite 10% quartz 5% K-feldspar
8.7 - 20			

Hole No.: TPKRC-10-49 Site No.: RC-10-48 Location: E 0441263 N 5814674 Elevation: 252m
 Geologist: B. Sherpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 9:15-9:45 a.m. Drilling Time: 9:45-12:00 p.m.
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. K246307 Bit Footage: 14.5 - 20.8m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-1.0			<u>ORGANICS</u> - forest litter and peat
1.0-1.2		01	<u>BOULDER</u> - tonalite
1.2-1.8		02	<u>CLAY</u> - grey; soft; sorted; non-gritty - drill penetrates with little resistance
1.8-4.1		0560K	<u>TILL</u> - unsorted; matrix supported; grey, fine sand matrix - granule to pebble sized clasts - clast lithology - 65% tonalite/granodiorite 20% mafic volcanics/sediments 15% limestone
2.5-3.2			tonalite boulder
3.2m			clast lithology - 85% tonalite/granodiorite 10% mafic volcanic/sediments 5% limestone
4.1-6.3			<u>BEO ROCK</u> - white and black; massive; coarse grained (2-8mm) - no visible alteration; trace, disseminated, fine grained pyrite - mineralogy - 75% plagioclase 20% hornblende 5% quartz tr epidote tr pyrite
			<u>TONALITE</u>
6.3m			E.O.H

Hole No.: TPKRC-10-50 Site No.: RC-10-45 Location: E 0441624 N 5814438 Elevation: 248m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 12:00 - 12:25 p.m. Drilling Time: 12:25 - 1:50 p.m.

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. K246307 Bit Footage: 20.8 - 28.3m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-2.0	^ ^ ^ ^ ^ ^ ^ ^		<u>ORGANICS</u> - forest litter and peat
2.0-2.8	=====		<u>BOWLOER</u> - tonalite
2.8-5.8	△ ○ ○ △ △ ○ ○ △ △ ○ ○ △	01 02	<u>TILL</u> - unsorted; matrix supported; grey clay to fine sand matrix - granule to pebble sized clasts - clast lithology - 50% tonalite / granodiorite 30% mafic volcanics / sediments 20% limestone
5.8-7.5	XXXXXX XXXXXX XXXXXX	03 BOX	<u>BEORock</u> - white and black; massive; coarse grained (2-8mm) - no visible alteration; no visible mineralization - mineralogy - 70% plagioclase 20% hornblende 10% quartz to epidote
7.5-20.0			<u>TONALITE</u> 7.5m E.O.H.

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Hole No.: TPKRC-10- 51 Site No.: RC-10-20 Location: E 0440505 N 5813524 Elevation: 272m?

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 1:50 - 3:15 p.m. Drilling Time: 3:15 - 5:00 p.m.

Moving Problems: _____

Drilling Problems: re-drill hole to obtain enough fill

Mechanical Problems: _____

Consumables: _____

Bit No. K246307

Bit Footage: 28.3m - 32.0m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 0.2			FOREST LITTER
0.2 - 1.3		01	CLAY - brown (oxidized); soft; sorted; non-gritty
1.3 - 2.2		02Bpx	TILL - unsorted; matrix supported; beige, fine sand matrix - granule to pebble sized clasts - clast lithology - 70% tonalite / granodiorite 20% mafic volcanic / sediments 10% limestone
2.2 - 3.7			BEDROCK - white and black; massive; medium grain size (0.5-4mm) - minor hematite staining; no visible alteration - mineralogy - 85% plagioclase 10% quartz 5% hornblende tr biotite
			TONALITE
3.7m			E.O.M
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Overburden Drilling Management Limited
Reverse Circulation Drill Hole Log

Date: March 21st/22nd 2010

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Hole No.: TPKRC-10- 52 Site No.: RC-10-82 Location: E0440254 N 5813250 Elevation: 274m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 5:00 - 5:20pm (21st) Drilling Time: 5:20 - 6:30pm (21st)

Moving Problems: _____ 8:30 - 10:00 am (22nd)

Drilling Problems: - redrill ~4m away from original hole in order to obtain enough till for sample 01

Mechanical Problems: _____

Consumables: _____

Bit No. K246307 Bit Footage: 32.0 - 36.2m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0	^ ^		
1	^ ^		0 - 0.8m ORGANICS
2	^ ^		- forest litter and peat
2.8	△ ○	01	
3	○ △		0.8 - 2.0m CLAY
4	□	02, 03, 04	- grey; soft; sorted; non-gritty
4.2	□		- drill penetrates with little resistance
5			2.0 - 2.6m TILL
6			- unsorted; matrix supported; grey, fine sand matrix
7			- granule to pebble sized clasts
8			- clast lithology - 85% tonalite / granodiorite
9			10% mafic volcanics / sediments
10			5% limestone
11			2.6 - 4.2m BEDROCK
12			- white and black; massive; coarse grained (2-8mm)
13			- no visible alteration; no visible mineralization
14			- mineralogy - 70% plagioclase
15			20% hornblende
16			10% quartz
17			tr. epidote
18			TONALITE
19			4.2m E.O.H.
20			

Hole No.: TPKRC-10-53 Site No.: RC-10-80 Location: E 0440634 N 5813048 Elevation: 271 m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 10:00-10:30 am (22nd) Drilling Time: 10:30-12:00 pm (22nd)
8:30-5:00 pm (23rd)
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: Floating spindle breaks - stop drilling @ 12:00 pm on 22nd; start drilling again @ 3:00 pm on 23rd (13 1/2 hrs d-time)
 Consumables: _____
 Bit No. K946307 Bit Footage: 36.2 - 44.2 m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1			0 - 0.2m <u>FOREST LITTER</u>
2			0.2 - 1.6m <u>BOULDERS</u> - tonalite
3			1.6 - 6.3m <u>TILL</u>
4			- unsorted; matrix supported; beige, fine sand matrix
5			- granule to cobble sized clasts
6			- clast lithology - 85% tonalite/granodiorite 10% limestone 5% mafic volcanics/sediments
7		<u>0360K</u>	5.0m - clast lithology - 55% tonalite/granodiorite 25% limestone 20% mafic volcanics/sediments
8			
9			6.3 - 8.0m <u>BEDROCK</u>
10			- white and black; massive; coarse grained (2-8mm)
11			- no visible alteration; no visible mineralization
12			- mineralogy - 75% plagioclase 15% hornblende 10% quartz
13			<u>TONALITE</u>
14			8.0m <u>E.O.H</u>
15			
16			* Sample 01 undersized - 5.5 Kg on drill
17			
18			
19			
20			

Hole No.: TPKRC-10- 54 Site No.: RC-10-77 Location: E 0441016 N 5812933 Elevation: 265m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 5:00 - 5:30 p.m. (25th) Drilling Time: 5:30 - 6:30 p.m. (23rd)
 Moving Problems: _____ 8:30 - 10:00 a.m. (24th)
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. K246707 Bit Footage: 0 - 7.0m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1			0-0.4m <u>ORGANICS</u> -forest litter and peat
2		01	0.4-1.4m - <u>BOULDERS</u> - tonalite
3			1.4-5.5m <u>TILL</u>
4		02	- unsorted; matrix supported; beige, fine sand matrix - granule to pebble sized clasts - clast lithology - 85% tonalite / granodiorite
5			
6		0360K	2.5m - matrix turns grey
7			5.5-7.0m <u>BEOROCK</u>
8			- white and black; massive; coarse grained (2-8mm)
9			- trace, fine grained, disseminated pyrite
10			- slightly magnetic
11			- mineralogy - 75% plagioclase 15% hornblende 10% quartz tr pyrite tr epidote tr magnetite
12			
13			
14			TONALITE
15			7.0 E.O.H.
16			
17			
18			
19			
20			

Hole No.: TPKRC-10- 55 Site No.: RC-10-72 Location: E 0440677 N 5812556 Elevation: 270m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 10:00-10:30am Drilling Time: 10:30-12:30pm
 Moving Problems: _____
 Drilling Problems: redrill hole ~ 4m away to obtain more till for sample 01
 Mechanical Problems: _____
 Consumables: _____
 Bit No. K246707 Bit Footage: 7.0 - 13.2m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1			0 - 0.2m <u>ORGANICS</u> - peat
2		01	0.2 - 1.0m <u>BOULDER</u> - tonalite
3		02	1.0 - 4.2m <u>TILL</u>
4			- unsorted; matrix supported; grey, fine sand matrix - granule to pebble sized clasts - clast lithology - 80% tonalite / granodiorite 15% mafic volcanics / sediments 5% limestone
5		0380K	
6			4.2 - 6.2 <u>BEDROCK</u>
7			- white and black; massive; coarse grained (2-8mm) - no visible alteration; trace, fine grained, disseminated pyrite - slightly magnetic - mineralogy - 70% plagioclase 20% hornblende 10% quartz tr pyrite tr magnetite
8			<u>TONALITE</u>
9			6.2m E.O.H.
10			* SAMPLE 01 - undersized (~5Kg)
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10- 56 Site No.: RC-10-76 Location: E 0440309 N 5812712 Elevation: 271m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 12:30-1:00p.m. Drilling Time: 1:00- 2:15 p.m.
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. K246707 Bit Footage: 13.2-20.2m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1	^ ^		0.25m <u>ORGANICS</u> - forest litter and peat
2	^ ^		
3			2.5-4.2m <u>CLAY</u> - grey, soft; sorted; non-gritty
4			
5	△ ○	01	4.2-5.4m <u>TILL</u> - unsorted; matrix supported; grey, fine sand matrix - granule to pebble sized clasts - clast lithology - 70% tonalite / granodiorite 20% mafic volcanics / sediments 10% limestone
6	△ ○	0200K	
7	XXXXX		5.4-7.0m <u>BED ROCK</u> - white and black with minor pink (K-feldspar?) - massive; coarse grained (1-6mm) - no visible alteration; no visible mineralization; slightly magnetic - mineralogy - 70% plagioclase 15% hornblende 10% quartz 5% K-feldspar tr magnetite <u>TONALITE</u> 7.0m E.O.H.
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Overburden Drilling Management Limited
Reverse Circulation Drill Hole Log

Date: March 24 2010

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Hole No.: TPKRC-10- 57 Site No.: RC-10-78 Location: E 0439932 N 5812892 Elevation: 271m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 2:15-2:40 p.m. Drilling Time: 2:40-5:30 p.m.

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. K246707

Bit Footage: 20.2-30.7m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-1.0			0-1.0m CLAY - brown (oxidized), soft; sorted; non-gritty - drill penetrates with little resistance
1.0-8.6		01, 02, 03, 04, 05	1.0 - 8.6m TILL - unsorted; matrix supported; beige, fine sand matrix - granule to pebble sized clasts - clast lithology - 75% tonalite / granodiorite 15% mafic volcanics / sediments 10% limestone 5.0m - matrix turns grey in colour clast lithology - 40% mafic volcanics / sediments 35% tonalite / granodiorite 25% limestone
8.6-10.5		06 back	8.6-10.5m BEDROCK - white and black; massive; coarse grained (2-8mm) - no visible alteration; trace, fine grained, disseminated pyrite - mineralogy - 70% plagioclase 20% hornblende 10% quartz tr pyrite
10.5			TONALITE 10.5m E.O.H.
			* SAMPLES 01, 02 slightly undersized
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Overburden Drilling Management Limited
Reverse Circulation Drill Hole Log

Date: March 24th/25th 2010

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Hole No.: TPKRC-10-58 Site No.: RC-10-74 Location: E 0441228 N 5812733 Elevation: 268m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 5:30 - 6:30 (24th) Drilling Time: 8:30 - 12:00 (25th)

Moving Problems: _____

Drilling Problems: Bit breaks apart @ 4m - pull up - move hole and re-drill ; need to wash holes many times to get enough fill

Mechanical Problems: _____

Consumables: New Bit & Sub

Bit No. K246707

Bit Footage: 30.7 - 34.7m

0 - 10.1m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0			
0.2			0.0-0.2m <u>BOULDER</u> - tonalite
0.2			0.2-1.0m <u>ORGANICS</u> - peat
1.0			1.0-1.4m - <u>BOULDER</u> - tonalite
1.4			1.4-8.6m <u>TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to cobble clast. - clast lithology - 70% tonalite / granodiorite 20% mafic volcanics / granodiorite 10% limestone 6.0m - matrix turns grey
8.0			8.0m - clay and fine sand for matrix
8.6			8.6-10.1m <u>BEDROCK</u> - white and black; massive; coarse-grained (2-8mm) - trace, fine grained, disseminated pyrite - mineralogy - 70% plagioclase 20% hornblende 10% quartz tr epidote tr pyrite
10.1			<u>TONALITE</u>
10.1			<u>E.O.H.</u>
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10-59 Site No.: RC-10-68 Location: E 0440962 N 5812475 Elevation: 269 m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 12:00 - 12:30 p.m. Drilling Time: 12:30 - 3:15 p.m.
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. K247007 Bit Footage: 10.1 - 20.6 m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1			0-1.0m CLAY
2		01	- brown (oxidized); soft; sorted; non-gritty - drill penetrates with little resistance
3			
4		02	1.0-8.7m TILL
5			- unsorted; matrix-supported; grey, fine sand matrix - granule to pebble sized clasts
6		03	- clast lithology - 50% tonalite / granodiorite 25% mafic volcanics / sediments 25% limestone
7		04	8.0m - locally clast supported - clast lithology - 90% tonalite / granodiorite 5% mafic volcanics / sediments 5% limestone
8		05	
9			8.7-10.5m BEDROCK
10		06 BOK	- white and black with pink hematite staining - massive; coarse grained (1-6mm) - slightly magnetic; no visible mineralization - mineralogy - 80% plagioclase 10% hornblende 10% quartz tr epidote
11			
12			
13			
14			TONALITE
15			10.5m E.O.H.
16			
17			
18			
19			
20			

Overburden Drilling Management Limited
Reverse Circulation Drill Hole Log

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Hole No.: TPKRC-10-61 Site No.: AC-10-61 Location: E 0491607 N 5812034 Elevation: 269m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 10:45 - 11:15 a.m. Drilling Time: 11:15 - 1:15 p.m.
 Moving Problems: _____
 Drilling Problems: - redrill hole ~4m away to obtain sufficient till for sample 01
 Mechanical Problems: _____
 Consumables: _____
 Bit No. K246407 Bit Footage: 12.7 - 17.2m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 0.5			<u>CLAY</u> - brown (oxidized); soft, sorted; non-gritty - drill penetrates with little resistance
0.5 - 1.3		01	<u>BOULDERS - tonalite</u>
1.3 - 3.0		02, 03	<u>TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to cobble sized clasts - drill through many cobbles - clast lithology 75% tonalite / granodiorite 15% mafic volcanic / sediments 10% limestone
3.0 - 4.5			<u>BEDROCK</u> - pink to dark pink; massive; coarse grained (2-8mm) - quartz veining with visible pyrite cubes - fine-grained, disseminated pyrite with host rock as well - slightly magnetic; no visible alteration - mineralogy - 45% plagioclase 30% K-feldspar 15% hornblende 10% quartz tr pyrite tr magnetite
			<u>GRANODIORITE</u>
4.5			<u>E.O.H.</u>
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

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Reverse Circulation Drill Hole Log

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Hole No.: TPKRC-10-62 Site No.: Rc-10-59 Location: E 044961 N 5811911 Elevation: 255m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 1:45 - 1:45 p.m. Drilling Time: 2:30 - 4:00 p.m.







Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: - water in fuel - drill running sluggish - ~1hr downtime

Consumables: _____

Bit No. K246407 Bit Footage: 17.2 - 23.7m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 1.2	^^ ^^ ^^ 		<u>ORGANICS</u> - forest litter and peat
1.2 - 2.0			<u>BOULDER</u> - pink granodiorite
2.0 - 3.5			<u>CLAY</u> - grey, soft; sorted; non-gritty
3.5 - 4.8	 	01 02BOK	<u>TILL</u> - unsorted; matrix supported; grey, fine sand matrix - granule to cobble sized clasts - clast lithology - 90% tonalite/granodiorite 5% mafic volcanics/sediments 5% limestone
4.8 - 6.5			<u>BEDROCK</u> - light to dark grey; massive; fine grained matrix (0.2-0.5mm) with coarse grained feldspar phenocrysts (porphyry) - slightly magnetic; no visible alteration; no visible mineralization - mineralogy - 80% plagioclase 15% quartz 5% hornblende <u>TONALITE</u> 6.5m E.O.H.
6.5 - 7.0			
7.0 - 7.5			
7.5 - 8.0			
8.0 - 8.5			
8.5 - 9.0			
9.0 - 9.5			
9.5 - 10.0			
10.0 - 10.5			
10.5 - 11.0			
11.0 - 11.5			
11.5 - 12.0			
12.0 - 12.5			
12.5 - 13.0			
13.0 - 13.5			
13.5 - 14.0			
14.0 - 14.5			
14.5 - 15.0			
15.0 - 15.5			
15.5 - 16.0			
16.0 - 16.5			
16.5 - 17.0			
17.0 - 17.5			
17.5 - 18.0			
18.0 - 18.5			
18.5 - 19.0			
19.0 - 19.5			
19.5 - 20.0			

Hole No.: TPKRC-10-63 Site No.: RC-10-56 Location: E 044 2334 N 58 | 2051 Elevation: 263m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 4:00 - 5:00 p.m. (26th) Drilling Time: 8:30 - 11:00 a.m. (27th)
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: water in fuel - 1.5 hrs downtime
 Consumables: _____
 Bit No. K246407 Bit Footage: 23.7 - 33.0m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1			0 - 0.3m <u>BOULDER</u> - tonalite
2		01	0.3 - 1.0m <u>CLAY</u> - grey; soft, sorted; non-gritty - drill penetrates with little resistance
3			
4		02	1.0 - 7.8m <u>TILL</u> - unsorted; clast supported; grey, fine sand matrix - granule to cobble sized clasts - clast lithology - 80% tonalite/granodiorite 15% mafic volcanics/sediments 5% limestone
5		03	
6		04	
7			
8		NS	3m - clast lithology - 95% tonalite/granodiorite 3% mafic volcanics/sediments 2% limestone
9		0560K	5m - interlayering of matrix and clast supported till - matrix turns brown in colour
10			
11			7.1m - <u>BOULDER</u> - sulphide bearing, porphyritic tonalite
12			7.8m <u>BEDROCK</u> - pink; massive; fine grained groundmass with coarse feldspar phenocrysts (porphyritic) - trace, fine grained, disseminated pyrite cubes; non-magnetic - mineralogy 60% plagioclase 20% K-feldspar 10% quartz 10% hornblende tr pyrite tr epidote
13			
14			
15			
16			
17			9.3m E.O.H.
18			
19			
20			

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Reverse Circulation Drill Hole Log

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Hole No.: TPKRC-10-64 Site No.: RC-10-12 Location: E 0441299 N 5813002 Elevation: 264m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 10:30 - 12:15 p.m. Drilling Time: 12:15 - 2:30 p.m.
 (long move)
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: NEW BIT
 Bit No. J237007 Bit Footage: 0 - 5.2m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 0.2			<u>0 - 0.2m FOREST LITTER</u>
0.2 - 0.6		01	<u>0.2 - 0.6m BOULDER - tonalite</u>
0.6 - 3.6		02	<u>0.6 - 3.6m TILL</u> - unsorted; matrix supported; beige to brown, fine sand matrix - granule to cobble sized clasts - - clast lithology 75% tonalite / granodiorite 15% mafic volcanics / sediments 10% limestone
3.6 - 5.2		0300K	<u>3.6 - 5.2m BEDROCK</u> - white and black; massive; coarse grained (2-8mm) - no visible alteration; no visible mineralization - slightly magnetic - mineralogy 70% plagioclase 20% hornblende 10% quartz tr magnetite TONALITE 5.2m E.O.H.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10-65 Site No.: RC-10-16 Location: E 0441805 N 5813234 Elevation: 263m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 2:30 - 3:00 p.m. Drilling Time: 3:00 - 4:30

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. J237007 Bit Footage: 5.2 - 8.4m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
1		01	0 - 0.5m <u>CLAY</u> - brown (oxidized); soft; sorted; non-gritty
2		0260K	0.5 - 0.8m <u>BOULDER</u> - tonalite
3			0.8 - 1.6m <u>TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to cobble sized clasts - clast lithology 75% tonalite / granodiorite 15% mafic volcanics / sediments 10% limestone
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

1.6 - 3.2m BEDROCK
- white and black; massive; coarse grained (1-6mm)
- no visible alteration; no visible mineralization
- slightly magnetic
- mineralogy 75% plagioclase
15% hornblende
10% quartz
tr magnetite

TONALITE

3.2m E.O.H.

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Reverse Circulation Drill Hole Log

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Hole No.: TPKRC-10-66 Site No.: RC-10-08 Location: E 0441619 N 5812939 Elevation: 257m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 4:30 - 5:00pm (27th) Drilling Time: 5:00 - 6:30 (27th)
 Moving Problems: _____ 8:30 - 9:15 a.m. (28th)
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. J237007 Bit Footage: 52 - 92.4m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 1	^ ^ ^ ^		0 - 0.5m <u>ORGANICS</u> - forest litter and peat
1 - 2			0.5 - 2.8m <u>CLAY</u> - grey; soft; sorted; non-gritty - drill penetrates with little resistance
2 - 3			
3 - 4	Δ ○	01	2.8 - 6.2m <u>TILL</u> - unsorted; matrix supported; grey, fine sand matrix - granule to pebble sized clasts
4 - 5	Δ ○	02	- clast lithology - 90% tonalite / granodiorite 5% mafic volcanics / sediments 5% limestone
5 - 6	Δ ○		
6 - 7	XXXXX	03 BOK	6.2 - 7.7m <u>BEDROCK</u> - white and black; massive; coarse grained (2-8mm) - no visible mineralization; slightly magnetic - mineralogy - 75% plagioclase 15% hornblende 10% quartz tr magnetite tr epidote
7 - 8			<u>TONALITE</u>
8 - 9			
9 - 10			
10 - 11			
11 - 12			
12 - 13			
13 - 14			7.7m E.O.H
14 - 15			
15 - 16			
16 - 17			
17 - 18			
18 - 19			
19 - 20			

Hole No.: TPKRC-10-67 Site No.: RC-10-71 Location: E044632 N 5812492 Elevation: 262 m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 9:15 - 9:45 a.m. Drilling Time: 9:45 - 11:45 a.m.

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. J237007 Bit Footage: 12.9 - 18.4 m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-1.0m	^ ^ ^ ^ ^ ^		<u>ORGANICS</u> - forest litter and peat
1.0-1.6m			<u>CLAY</u> - brown (oxidized); soft; soiled; non-gritty - drill penetrates with little resistance
1.6-2.0m			<u>BOULDER</u> - granodiorite
2.0-3.5m		01	<u>CLAY</u> - grey - same description as above
3.5-3.7m			<u>TILL</u> - unsorted; matrix supported; grey, fine sand matrix - granule to pebble sized clasts - clast lithology - 99% tonalite / granodiorite 0.5% mafic volcanics / sediments 0.5% limestone
3.7-5.5m			<u>BEDROCK</u> - pink; massive; coarse grained (2-8mm) - no visible alteration; no visible mineralization - slightly magnetic - mineralogy 50% plagioclase 25% K-feldspar 15% hornblende 10% quartz tr magnetite
			<u>GRANODIORITE</u>
			5.5m E.O.H.

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Hole No.: TPKRC-10-68 Site No.: Re-10-67 Location: E0441958 N 5812310 Elevation: 261 m

Geologist: B. Sharp Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 11:45 - 12:15 pm Drilling Time: 12:15 - 1:45 pm.

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: _____

Bit No. J237007 Bit Footage: 18.4 - 24.4 m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 0.7			<u>CLAY</u> - brown (oxidized); soft; sorted; non-gritty - drill penetrates with little resistance
0.7 - 4.3			<u>TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to cobble sized clasts - clast lithology - 75% tonalite/granodiorite 15% mafic volcanics/sediments 10% limestone
4.3 - 6.0			<u>BEDROCK</u> - pink; massive; coarse-grained (2-8mm) - no visible mineralization; non-magnetic - mineralogy 45% plagioclase 35% K-feldspar 10% quartz 10% hornblende tr epidote <u>GRANODIORITE</u> 6.0 m E.O.H.
1		01	
2			
3			
4		62	
5		0300K	
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10-69 Site No.: RC-10-03 Location: E0442032 N 5812830 Elevation: 273m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 1:45 - 2:30 Drilling Time: 2:30 - 5:00 p.m.
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. J237007 Bit Footage: 24.4 - 40.1

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 0.2			0.0-0.2m <u>FOREST LITTER</u>
0.2 - 0.6			0.2-0.6m <u>BOULDER</u> - tonalite
0.6 - 1.3			0.6-1.3m <u>CLAY</u> - light brown (oxidized); soft; sorted; non-gritty - drill penetrates with little resistance
1.3 - 14.2			1.3-14.2m <u>TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to cobble sized clasts - clast lithology - 65% tonalite / granodiorite 20% mafic volcanics / sediments 15% limestone
4m			4m - matrix turns grey in colour
6.5 - 7m			6.5-7m - clay with fine sand matrix - same as above
14.2 - 15.7			14.2-15.7m <u>BEDROCK</u> - white and black; massive; coarse grained (2.8mm) - no visible mineralization; slightly magnetic - mineralization - 70% plagioclase 15% hornblende 10% quartz 5% K-feldspar tr epidote tr magnetite
			<u>TONALITE</u>
15.7m			15.7m E.O.H.
15		09 BOK	
16			
17			
18			
19			
20			

Hole No.: TPKRC-10-70 Site No.: RC-10-11 Location: E 0442195 N 5813254 Elevation: 250m?
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 5:00 - 5:15 p.m. (28th) Drilling Time: 5:15 p.m. - 6:30 p.m. (28th)
 Moving Problems: _____ 8:30 - 9:45 a.m. (29th)
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. V237007 Bit Footage: 40.4 - 52.6m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-0.4m			<u>BOULDER</u> - tonalite
0.4-1.0m		01	<u>ORGANICS</u> - peat
1.0-10.6m		NS	<u>TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to pebble sized clasts - clast lithology - 60% tonalite/granodiorite 20% mafic volcanics/sediments 20% limestone
1.6-2.6m		02	<u>BOULDER</u> - tonalite
3m		03	matrix turns grey - same description as above
8.0m		04	clast lithology - 85% tonalite/granitoid 10% mafic volcanics/sediments 5% limestone
10.6-12.2m		05	<u>BEDROCK</u> - white and black; massive; coarse grained (2-8mm) - no visible mineralization; slightly magnetic - mineralogy - 68% plagioclase 20% hornblende 10% quartz 2% K. feldspar tr magnetite tr epidote
		06	
		07	
			<u>TONALITE</u>
			12.2m E.O.H.
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10-71 Site No.: RC-10-124 Location: E 0442488 N 5013087 Elevation: _____
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 9:45 - 10:15 a.m Drilling Time: 10:15 - 12:30 p.m
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. J237067 Bit Footage: 52.6 - 63.1 m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 0.7m			<u>0 - 0.7m. BOULDER - tonalite</u>
0.7 - 8.6m		01, 02, 03, 04, 05	<u>0.7 - 8.6m TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to cobble sized clasts - clast lithology - 75% tonalite/granodiorite 15% mafic volcanics 10% limestone 4m - matrix turns grey in colour 8m - clast supported till - clast lithology - 90% tonalite/granodiorite 5% mafic volcanics / sediments 5% limestone * SAMPLE 01, 02 - undersized
8.6 - 10.5m			<u>8.6 - 10.5m BEDROCK</u> - white and black; massive; coarse grained (2-10mm) - no visible alteration - trace, fine grained, disseminated pyrite - slightly magnetic - mineralogy - 65% plagioclase 25% hornblende 10% quartz tr pyrite tr magnetite TONALITE 10.5m E.O.H.
10.5 - 20m			

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Hole No.: TPKRC-10-72 Site No.: RC-10-06 Location: E 0442718 N 5812878 Elevation: 257m

Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin

Travel Time: _____ Move and Setup Time: 12:30 - 1:00 p.m. Drilling Time: 1:00 - 3:15 p.m.

Moving Problems: _____

Drilling Problems: _____

Mechanical Problems: _____

Consumables: NEW BIT

Bit No. A24608 Bit Footage: 0 - 15.4

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0 - 0.4			0 - 0.4m - <u>BOULDER</u> - tonalite
0.4 - 0.8			0.4 - 0.8m - <u>CLAY</u> - brown (oxidized); soft; sorted; non-gritty
0.8 - 1.4			0.8 - 1.4m - <u>BOULDER</u> - tonalite
1.4 - 13.8		01 02 03 04 05	1.4 - 13.8m <u>TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to cobble sized clasts - clast lithology - 75% tonalite/granodiorite 15% limestone 10% mafic volcanics / sediments
2.5m			2.5m - matrix turns grey in colour
5.5m			5.5m - clast lithology - 55% tonalite/granodiorite 25% mafic volcanics / sediments 20% limestone
13.8 - 15.4		NS NS	13.8 - 15.4m <u>BEDROCK</u> - white and black with minor pink; massive; coarse grained (2-8mm) - no visible mineralization; slightly magnetic - mineralogy - 60% plagioclase 15% K-feldspar 15% hornblende 10% quartz tr magnetite tr epidote
			<u>GRANODIORITE</u>
15.4m			15.4m <u>E.O.H.</u>
16			
17			
18			
19			
20			

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Hole No.: TPKRC-10-73 Site No.: AC-10-01 Location: E 0442353 N 5812596 Elevation: 257m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 3:15-3:45 p.m. Drilling Time: 3:45 - 5:45 p.m.
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A24608 Bit Footage: 15.4 - 27.8

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-0.4			<u>FOREST LITTER</u>
0.4-0.5			<u>BOULDER</u> - tonalite
0.5-1.6			<u>CLAY</u> - dark grey; soft; sorted; non-gritty - drill penetrates with little resistance
1.6-10.8			<u>TILL</u> - unsorted; matrix supported; beige, fine sand matrix - granule to cobble sized clasts - clast lithology - 70% tonalite/granodiorite 20% mafic volcanics/sediments 10% limestone
3.4-4.2			<u>BOULDER</u> - tonalite
4.2			matrix turns grey in colour - same description as above
10.8-12.4			<u>BEDROCK</u> - white, black and pink; massive; coarse grained (2-8mm) - no visible mineralization; slightly magnetic - mineralogy 60% plagioclase 15% K-feldspar 15% hornblende 10% quartz tr magnetite tr epidote
			<u>GRANODIORITE</u>
			12.4m E.O.H.
13			
14			
15			
16			
17			
18			
19			
20			

Hole No.: TPKRC-10-74 Site No.: RC-10-B Location: E 0442459 N 5814226 Elevation: 254 m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 5:45 - 6:30 p.m. (29th) Drilling Time: 9:30 - 11:45 a.m.
 Moving Problems: _____ 8:00 - 9:30 a.m. (30th) _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A24608 Bit Footage: 27.8 - 37.0 m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-0.2			<u>FOREST LITTER</u>
0.2-0.7		01	<u>BOULDER - tonalite</u>
0.7-			<u>TILL</u>
			- unsorted; matrix supported; beige, fine sand matrix
			- granule to pebble clasts
			- clast lithology - 55% tonalite / granodiorite
			25% mafic volcanics / sediments
			20% limestone
2.0			matrix turns grey in colour
4.0			locally clast supported; interlayered with matrix supported fill
			- clast lithology - 70% tonalite / granodiorite
			20% mafic volcanics / sediments
			10% limestone
8-10.0			<u>BEDROCK</u>
			- white and black; massive; coarse grained (2-8mm)
			- no visible mineralization; slightly magnetic
			- mineralogy - 75% plagioclase
			15% hornblende
			10% quartz
			tr K-feldspar
			tr magnetite
			tr epidote
			<u>TONALITE</u>
			10.0m E.O.H
10		06004	
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

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Hole No.: TPKRC-10-75 Site No.: RC-10-A Location: E 0442156 N 5814295 Elevation: 245m
 Geologist: B. Sharpe Drilling Company: Bradley Bros. Driller: M. Jodouin
 Travel Time: _____ Move and Setup Time: 11:45-12:30 p.m. Drilling Time: 12:30-2:00 p.m.
 Moving Problems: _____
 Drilling Problems: _____
 Mechanical Problems: _____
 Consumables: _____
 Bit No. A246 02 Bit Footage: 37.8-46.0m

Depth (m)	Graphic Log	Sample No.	Descriptive Log
0-0.4m			<u>BOULDER</u>
0.4-2.0m			<u>CLAY</u> - brown (oxidized); soft; sorted; non-gritty - drill penetrates with little resistance
2.0-6.6m		01 02 03	<u>TILL</u> - unsorted; matrix supported; beige; fine sand matrix - granule to cobble sized clasts - clast lithology 55% tonalite/granodiorite 25% mafic volcanics/sediments 20% limestone 2.5m - interlayering of clast and matrix supported 4.0m - matrix turns gray in colour 5.0m - clast supported- clast lithology - 90% tonalite/granodiorite 5% mafic volcanics/sediments 5% limestone
6.6-8.2m		04	<u>BEDROCK</u> - white, black, and pink; massive; coarse grained (2-8mm) - no visible mineralization; slightly magnetic - partially granitified (1st 0.5m come back as granules) - mineralogy 65% plagioclase 20% hornblende 10% quartz 5% K-feldspar tr magnetite tr epidote tr biotite <u>TONALITE</u> 8.2m E.O.H.
8.2-10.0m			
10.0-11.0m			
11.0-12.0m			
12.0-13.0m			
13.0-14.0m			
14.0-15.0m			
15.0-16.0m			
16.0-17.0m			
17.0-18.0m			
18.0-19.0m			
19.0-20.0m			

Appendix B

Binocular Microscope Descriptions of the Bedrock Cuttings

Mineral Components

Primary/Metamorphic/Alteration Minerals (%)

Textural Components (%)

Grain Size (mm)

Crystals/Sand Grains

Groundmass/Matrix

Sample No.	Colour	Structure	Primary Texture	Grain Size (mm)			Crystals/Sand Grains			Textural Components (%)			Primary/Metamorphic/Alteration Minerals (%)										
				Visible Sand Grains	Visible Fragments	Groundmass/Matrix	Qtz	Plag	Visible Fragments	Primary/Met.	Tec-tonic/ALT	Mafic Ratio K-Spar/Qtz	Ser	Other Silicates	Carbonates	FeTi-Oxides	Sulphides	Lithology					
TPKRC10-01-02	Speckled pink and dark green	Weakly foliated	Coarse-grained subhedral granular	NA	NA	1-3	0	0	0	100	0	10:60:15:15 (plag:K-spar ratio SEM chloritized confirmed)	0	2	epidote	1	fracture-hosted calcite	1	earthy red hematite	0	GRANDDIORITE		
TPKRC10-02-04	Streaked black and white	Strongly sheared with small, highly fractured lozenges and feldspar porphyroclasts	Coarse-grained subhedral granular	1-3 (qtz and plag porphyro-clasts)	5-10+ (relict lozenges)	0.05-0.1 (mylonite)	5	15	30	0	50	20:50:10:20 (variously chlorite)	0	1	epidote	0.5	fracture-hosted calcite	0	0	0	Tr pyrite	GRANDDIORITE (mylonitized)	
TPKRC10-03-04	Speckled to streaked black and pale pink	Strongly sheared with alternating massive (but fractured), foliated and mylonitized bands	Medium-grained euhedral granular	NA	NA	Primary: 0.3-0.7 Mylonitized: 0.05-0.2	0	0	0	70	30	5:0:55:40 Tr spessartine (SEM confirmed)	1	0	0	3	fracture-hosted calcite	0	0	0	Low tr pyrite (fracture-hosted)	LEUCOGRANITE (mylonitized)	
TPKRC10-04-02	a) 40% of sample: Dark grey	Mylonitized with sparse quartz porphyroclasts	Erasd by mylonization	1-2 (qtz porphyro-clasts)	NA	0.05-0.1 (mylonite)	<1	0	0	0	99	20:7:?:? (qtz:feldspar ratios unresolved due to uniformly fine grain size)	0	0	0	Tr fracture-hosted calcite	0	0	0	0	Tr earthy red hematite	GRANDDIORITE (mylonitized)	
TPKRC10-05-04	b) 60% of sample: Streaked black and pale pink	Strongly shear-foliated and fractured phenocrysts	Apitic with sparse, small euhedral feldspar phenocrysts	0.5-1 (feldspar phenocrysts)	NA	0.05	0	0	0	98	0	5:?:?:? (qtz:feldspar ratios unresolved due to apitic texture)	0	0	0	3	fracture-hosted calcite	0	0	0	0	LEUCOGRANITE (apitic dyke; strongly sheared)	
TPKRC10-05-04	Speckled black and pink with patchy ochre limonite stain	Moderately foliated	Coarse-grained anhedral granular	NA	NA	1-3	0	0	0	100	0	10:40:25:25	0	0	0	0	0	0	0	0.1	magnetite	0	QUARTZ MONZONITE
TPKRC10-06-02	Speckled black and white to pale pink	Massive	Medium-grained euhedral granular, slightly porphyritic	5	NA	0.5-1.5	0	5	0	95	0	10:30:20:40 (feldspar K-spar ratio SEM confirmed)	0	0.5	0	0	0	0	0	0.1	magnetite	0	QUARTZ MONZONITE
TPKRC10-07-04	Speckled black and white to pale pink	Weakly foliated with sparse, small, 3-5 mm mylonitized wisps	Coarse-grained anhedral granular	NA	NA	Primary: 1-3 Mylonite wisps: 0.1-0.2	0	0	0	98	2	15:35:20:30	0	0	0	1	disseminated calcite	0	0	0.3	magnetite	0	QUARTZ MONZONITE (weakly sheared)
TPKRC10-08-02	Speckled black and white to pale pink	Massive	Coarse-grained subhedral granular	NA	NA	1.5-3	0	0	0	100	0	15:35:25:25	0	0	0.1	0	0.5	disseminated calcite	0.1	magnetite	0	0	QUARTZ MONZONITE
TPKRC10-09-02	Streaked black and white with patchy red-orange hematite stain	Mylonitized with sparse relict porphyroclasts	Coarse-grained granular	1-2 (qtz and feldspar porphyro-clasts)	>10 (relict lozenges)	Primary in relict lozenges: 1-3 Mylonite: 0.05-0.2	1	2	2	0	95	10:?:?:? (plag:K-spar ratios unresolved due to major mylonitization)	0	0	0	Tr fracture-hosted calcite	0	0	0	0	0.1	pyrite (disseminated)	QUARTZ MONZONITE (mylonitized)
TPKRC10-10-03	Speckled black and white	Weakly foliated	Coarse-grained subhedral granular	NA	NA	1-3	0	0	0	100	0	15:35:20:30	0	2	0	0	0	0	0	0	0	0	QUARTZ MONZONITE
TPKRC10-11-05	Speckled black and white	Weakly foliated	Medium-grained subhedral granular, slightly porphyritic	3 (plag phenocrysts)	NA	0.5-1.5	0	1	0	99	0	15:25:20:40	0	0	0.1	0	0	0	0	0.1	magnetite	0	QUARTZ MONZONITE
TPKRC10-12-02	Speckled black and white	Weakly foliated	Coarse-grained subhedral granular	NA	NA	1-3	0	0	0	100	0	15:35:15:35 (plag:K-spar ratio SEM confirmed)	0	Tr	0	1	disseminated calcite	0	0	0	0	0	QUARTZ MONZONITE

Mineral Components

Sample No.	Colour	Structure	Primary Texture	Grain Size (mm)			Crystals/Sand Grains			Textural Components (%)			Primary/Metamorphic/Alteration Minerals (%)							
				Xls/Sand Grains	Visible Fragments	Ground-mass/Matrix	Qtz	Plag	Frag-ments	Primary/Met.	Tectonic/Alt.	Mafic/K-Spar/Qtz	Ratio Mafics/Plag	Silicates			Carbonates	FeTi-Oxides	Sulphides	Lithology
														Ser	Other	Silicates				
TPKRC10-13-03	Speckled black and white	Massive to weakly foliated	Coarse-grained subhedral granular	NA	NA	1-3	0	0	0	100	0	15-40:15:30	15 biotite	0	1 epidote 0.1 titanite	0.5 disseminated calcite	0	0	Low Tr pyrite	QUARTZ MONZONITE
TPKRC10-14-02	Speckled black and white	Massive to weakly foliated; with sparse 5-10 mm mylonite wisps	Coarse-grained subhedral granular	NA	NA	Primary: 1-2 Mylonite wisps: 0.05-0.2	0	0	0	97	3 (mylonite wisps)	15:35:25:25	15 biotite	0	0.2 titanite 0.2 epidote	1 disseminated and fracture-hosted calcite	0	0	0.1 pyrite coarse euhedral associated with minor (<1%) quartz, gash veinlets	QUARTZ MONZONITE (weakly sheared)
TPKRC10-15-03	Speckled black and white	Massive to weakly foliated	Coarse-grained subhedral granular (70% iron-stained, fractured, aurothitic clots)	NA	NA	1-3 (0.03-0.4 in iron-stained aurothite)	0	0	0	100	0	15:35:20:30	15 biotite (30 in iron-stained grains)	0	0.1 titanite	1 disseminated calcite	0	0	0	QUARTZ MONZONITE
TPKRC10-16-04	Speckled black and white	Weakly foliated	Coarse-grained subhedral granular	NA	NA	1-3	0	0	0	100	0	15:35:20:30	15 biotite	0	1 epidote 0.1 titanite	1 disseminated calcite	0	0	0	QUARTZ MONZONITE
TPKRC10-17-02 (70% of sample)	Medium grey	Mylonitized with sparse porphyroclasts	Erasd by mylonitization	2-3 (plag porphyroclasts)	NA	0.1-0.2 (mylonite)	0	2 (porphyroclasts)	0	0	90	15:7:7:35 (feldspar ratio unresolved due to pervasive mylonitization)	15 biotite	0	Tr titanite	0	1 magnetite (finely disseminated)	0	0	QUARTZ MONZONITE (mylonitized)
TPKRC10-17-02 (30% of sample)	Speckled black and white	Massive	Coarse-grained subhedral granular	NA	NA	1-2	0	0	0	100	0	10:30:30:30	10 biotite	0	1 epidote Tr titanite	0	0	Tr pyrite (disseminated)	QUARTZ MONZONITE	
TPKRC10-18-03	Speckled black and white	Weakly foliated	Coarse-grained subhedral granular	NA	NA	2-3	0	0	0	100	0	15:25:30:30	15 biotite	0	Tr titanite	0.5 disseminated calcite	0.2 magnetite	0	Tr coarse cubic pyrite	QUARTZ MONZONITE
TPKRC10-19-02	Speckled black and white to pale pink with patchy brown oxidation of biotite	Massive	Coarse-grained anhedral granular	NA	NA	1-3	0	0	0	100	0	10:25:35:30	10 biotite	0	Tr titanite	0	0.1 magnetite	0	0	QUARTZ MONZONITE
TPKRC10-20-02	Speckled black and white with pale yellow-brown oxidation stain	Weakly foliated	Coarse-grained anhedral granular	NA	NA	1-3	0	0	0	100	0	15:30:25:30	12 biotite 3 hornblende	0	0.1 titanite	0	0.3 magnetite	0	0	QUARTZ MONZONITE
TPKRC10-21-03	Speckled black and white	Coarsely sheared; brecciated with magnetite and ilmenite-bearing crystals in a granulated sugary matrix	Coarse-grained subhedral granular	NA	NA	Primary: 1-3 Sugary breccia matrix: 0.1-0.2	0	0	0 (primary)	60	40	10:40:20:30	10 biotite	0	0	0.5 fracture-hosted calcite	0.1 magnetite	0.5 pyrite 0.2 pyrrhotite	coarsely disseminated in breccia matrix	QUARTZ MONZONITE (sheared)
TPKRC10-22-01	Speckled black and white with patchy yellow-ochre limonite stain	Incipiently but pervasively sheared; brecciated with fragments and ilmenite-bearing crystals in a granulated sugary matrix	Coarse-grained subhedral granular	NA	NA	Primary: 2-3 Sugary breccia matrix: 0.05-0.2	0	0	0 (primary)	80	20	10:40:20:30	10 biotite	0	0	1 fracture-hosted calcite	Tr magnetite	0.1 pyrite	coarsely disseminated in breccia matrix	QUARTZ MONZONITE (sheared)
TPKRC10-23-02	Wisply streaked black and white	Semi-pervasively shear-streaked and granulated (flaser structure)	Coarse-grained granular	NA	NA	Primary: 1-2 Granulated: 0.05-0.2	0	0	0 (primary)	40	60 (includes all quartz)	15:35:20:30	15 biotite (locally chloritized)	0	0	5 disseminated calcite	0	0	Tr pyrite (finely disseminated)	QUARTZ MONZONITE

Mineral Components

Sample No.	Colour	Structure	Primary Texture	Grain Size (mm)			Textural Components (%)			Primary/Metamorphic/Alteration Minerals (%)									
				Xls/Sand Grains	Visible Fragments	Groundmass/Matrix	Crystals/Sand Grains			Silicates									
							Qz	Plag	Fragments	Primary/Met.	Tec-tonic/Alt.	Ratio Mafics/Plag-K-Spar/Qtz	Mafic	Ser	Other Silicates	Carbonates	FeTi-Oxides	Sulphides	Lithology
TPKRC10-24-04	Speckled to streaked black and white to pale pink	Variable form moderately to completely shear-banded and granulated	Coarse-grained subhedral granular	NA	NA	Primary: Coarse-grained 0.1-0.2	0	0	0	50	50	15:35:15:35	15 biotite	0	0	3 disseminated calcite	0	Tr-pyrite (finely disseminated)	QUARTZ MONZONITE (sheared)
TPKRC10-25-05	Speckled black and white	Weakly foliated with 20% granulated, sheared seams	Coarse-grained subhedral granular	NA	NA	1-3	0	0	0	80	20	15:30:30:25	15 biotite	0	0	5 calcite in sheared seams (1 overall)	0	5 dusty pyrite in silicified shear seams (1 overall)	QUARTZ MONZONITE (sheared)
TPKRC10-26-02	Speckled black and pale pink	Massive to weakly foliated	Coarse-grained subhedral to euhedral granular	NA	NA	1-3	0	0	0	100	0	10:35:30:25 (plag:K-spar ratio SEM confirmed)	10 biotite	0	0	0	0.1 magnetite	0	QUARTZ MONZONITE
TPKRC10-27-06	Speckled black and white	Weakly foliated	Coarse-grained subhedral granular	NA	NA	1-2	0	0	0	100	0	15:25:25:35	15 biotite	0	0.2 titanite	0	0.3 magnetite	0	QUARTZ MONZONITE
TPKRC10-28-06	Speckled black and white with granulated primary limonite stain	Weakly foliated with 10% granulated, sheared seams	Coarse-grained subhedral granular	NA	5 (internal 0.3-0.5)	1-3	0	0	1 (biotite paragenesis)	95	5	15:30:30:25	15 biotite Tr almandine (restricted to paragneiss xenoliths)	0	0	5 calcite in shear seams (0.5 overall)	0.1 magnetite (concentrated in shear seams and paragneiss xenolith)	0	QUARTZ MONZONITE (weakly sheared)
TPKRC10-29-02	Speckled black and white	Strongly foliated, and shear-streaked/ granulated, preferentially in biotite	Coarse-grained subhedral granular	NA	NA	1-3 (0.1-0.3 where granulated)	0	0	0	60	40	15:40:20:25	15 biotite	0	0.5 titanite (resembles almandine; SEM confirmed)	2 disseminated calcite	0	0.1 pyrite (coarse crystalline; both sulphides concentrated in biotite-rich shear seams)	QUARTZ MONZONITE (sheared)
TPKRC10-30-04	Speckled black and white	Moderately foliated	Medium-grained subhedral granular	NA	NA	0.5-1.5	0	0	0	100	0	25:70:0:5	20 biotite 5 green augite (SEM confirmed)	0	0	0	0	Tr-pyrite	DIORITE
TPKRC10-31-07	Medium pink (hematite stained)	Moderately foliated	Microphyritic with aplitic groundmass	0.3-1 (plag phenocrysts)	NA	0.1-0.2	0	5	0	95	0	5:?:?:40 (feldspar unresolvable due to fine grain size of groundmass)	5 biotite (extensively chloritized)	0	0.5 epidote	0	0.1 earthy red hematite Tr leucoxene	Tr-pyrite	APLITE
TPKRC10-32-05	Speckled black and white	Weakly foliated	Porphyritic with aplitic groundmass	0.3-3 (plag phenocrysts)	NA	0.1-0.2	0	3	0	97	0	5:?:?:30 (feldspar unresolvable due to fine grain size of groundmass)	5 biotite	0	0.1 titanite (variably leucoxene)	0	0	0	FELDSPAR PORPHYRY
TPKRC10-33-06	Speckled black and white to pale pink	Weakly foliated	Porphyritic with fine-grained granitoid groundmass	0.5-5 (plag phenocrysts)	NA	0.2-0.3	0	5	0	95	0	7:?:?:30 (feldspar unresolvable due to fine grain size of groundmass)	7 biotite	0	Tr titanite	0	0	0	FELDSPAR PORPHYRY
TPKRC10-34-02	Speckled to sheared black and white to pale pink	Moderately foliated to strongly streaked and white to quartz sugary, pressure-granulated	Coarse-grained subhedral granular	NA	NA	1-3 (qtz granulated to 0.1-0.3)	0	0	0	70	30 (granulated qtz)	15:30:25:30	15 biotite (locally chloritized)	0	0.2 titanite	3 disseminated calcite	Tr magnetite	Tr-pyrite	QUARTZ MONZONITE (sheared)
TPKRC10-35-03	Speckled black and white with buff-bleached plagioclase	Moderately foliated and shear-streaked with <1% smoky quartz-veinlets	Coarse-grained subhedral granular	NA	NA	1-2 (semi-aplanitic in shear streaks)	0	0	0	90	10 (mylonite)	10:40:20:30	2 biotite 8 chlorite	0	0	2 disseminated calcite	0	0.3 pyrite (concentrated in shear seams and quartz veins)	QUARTZ MONZONITE (sheared)
TPKRC10-36-02	Speckled black and white	Weakly foliated	Coarse-grained subhedral granular	NA	NA	1-3	0	0	0	100	0	15:30:25:30	15 biotite	0	2 epidote Tr titanite	0	0	0	QUARTZ MONZONITE

Mineral Components

Primary/Metamorphic/Alteration Minerals (%)

Textural Components (%)

Grain Size (mm)

Crystals/Sand Grains

Groundmass/Matrix

Silicates

Sample No.	Colour	Structure	Primary Texture	Grain Size (mm)			Crystals/Sand Grains			Textural Components (%)			Primary/Metamorphic/Alteration Minerals (%)					Lithology								
				Visible Sand Grains	Visible Fragments	Groundmass/Matrix	Xls/Sand Grains	Plag	Qtz	Primary/Met.	Tec-tonic/ALT	Ratio Maifs/Plag/K-Spar/Qtz	Mafic	Ser	Other Silicates	Carbonates	FeTi-Oxides		Sulphides							
TPKRC10-37-04	Speckled black and white with grey groundmass	Weakly foliated	Porphyritic with fine-grained granitoid groundmass	1-3 (biotite and plagiophenocrysts)	NA	0.2-0.4	0	10	0	85	0	15:25:20:40 (5 as phenocrysts)	15 biotite (5 as phenocrysts)	Tr calcite	0.1 magnetite	0	0	BIOTITE-PORPHYRY (textural subphase of quartz monzonite)								
TPKRC10-38-02	Speckled to streaked black and white	Moderately foliated, weakly sheared	Porphyritic with fine to medium-grained granitoid groundmass	1-3 (biotite and plagiophenocrysts)	NA	0.2-0.5 (0.05-0.1 in sugary streaks)	0	10	0	75	10	10:30:25:35 (5 as phenocrysts, locally chloritized)	10 biotite (5 as phenocrysts)	0.5 disseminated calcite	0	0	0	BIOTITE-FELDSPAR-PORPHYRY (textural subphase of quartz monzonite; weakly sheared)								
TPKRC10-39-02	Speckled black and white to pale pink	Weakly foliated	Coarse-grained euhedral granular	NA	1-3	1-3	0	0	0	100	0	15:30:30:25	15 biotite	0	0.5 epidote	0	0	QUARTZ MONZONITE								
TPKRC10-40-06	Speckled black and white with black xenoliths	Moderately foliated	Porphyritic with fine to medium-grained granitoid groundmass and hornfelsed basalt xenoliths	1-3 (biotite and plagiophenocrysts)	5-10 (internal 0.1-0.2)	0.2-0.5	0	25	5 (hornfelsed basalt)	70	0	15:30:20:35 (5 as phenocrysts)	15 biotite (5 as hornfelsed in basalt xenoliths)	0	0	0	0	BIOTITE-FELDSPAR-PORPHYRY (textural subphase of quartz monzonite)								
TPKRC10-41-08	Speckled black and white	Massive	Coarse-grained euhedral granular	NA	1-3	1-3	0	0	0	100	0	15:35:20:30	12 biotite 3 hornblende	0	2 epidote	0	0	QUARTZ MONZONITE								
TPKRC10-42-09	Speckled black and white to hornfelsed stained pink	Weakly foliated	Weakly porphyritic with medium-grained euhedral granular groundmass	2 (plagiophenocrysts)	NA	0.5-1	0	1	0	98	0	10:40:25:25	9 biotite 1 hornblende	Tr calcite	Tr magnetite	Tr magnetite (fracture-hosted)	0	0	QUARTZ MONZONITE							
TPKRC10-43-03	Speckled black and white	Massive to weakly foliated	Coarse-grained euhedral granular	NA	1-3	1-3	0	0	0	100	0	10:40:25:25	10 biotite	1 disseminated calcite	Tr magnetite	Tr magnetite	0	0	QUARTZ MONZONITE							
TPKRC10-44-02	Hematite-stained deep pink	Massive	Aplitic	NA	0.3-0.5	0.3-0.5	0	0	0	100	0	2:20:40:40	2 chlorite	0	0	0	0	0.5 earthy hematite 0.3 leucocoxene	APLITE							
TPKRC10-45-01	Speckled black and white with patchy limonite stain	Weakly foliated with very minor granulated shear seams	Coarse-grained euhedral granular with sparse hornfelsed greywacke xenoliths	NA	5-10 (internal 0.1-0.3)	1-2	0	0	2 (grey-wacke xenoliths)	96	2	15:30:25:30 (15 in greywacke xenoliths)	15 biotite (15 in greywacke xenoliths)	Tr calcite (concentrated in shear seams)	0.3 magnetite	0.1 pyrite (5 in shear seams)	0	0	QUARTZ MONZONITE							
TPKRC10-46-03	Speckled black and white	Weakly foliated with very minor (2%) foliated shear seams and qtz veins	Coarse-grained subhedral granular	NA	1-3	1-3	0	0	0	98	2	10:35:25:30	8 biotite 2 hornblende	0.5 calcite (concentrated in shear seams)	0	0	0	0	0	0.1 pyrite (concentrated in qtz veins)	QUARTZ MONZONITE					
TPKRC10-47-02	Pale grey	Moderately foliated	Sparsely porphyritic with fine-grained granitoid groundmass	0.5-1.5 (plagiophenocrysts)	NA	0.2-0.3	0	3 (plagiophenocrysts)	0	97	0	15:30:35:30	15 biotite	0	0	0	0	0	0.1 leucocoxene	0	0	FELDSPAR-PORPHYRY				
TPKRC10-48-04	Speckled dark green and pale pink (hematite-stained)	Weakly to moderately foliated with anastomosing shear seams	Medium-grained euhedral granular	NA	0.5-1	0.5-1	0	0	0	95	5	15:35:30:20	10 chlorite 5 biotite	1 disseminated calcite	Tr leucocoxene	Tr pyrite	0	0	0	0	0	0	QUARTZ MONZONITE			
TPKRC10-49-03 (70% of sample)	Speckled black and white	Massive to weakly foliated	Coarse-grained euhedral granular	NA	1-3	1-3	0	0	0	100	0	15:35:20:30	15 biotite	0	0.5 epidote	0	0	0	0	0	0	0	QUARTZ MONZONITE			
TPKRC10-49-03 (30% of sample)	Pale to medium grey	Strongly foliated with laminated bedding	Interbedded silty to cherty, now recrystallized, sugary	NA	0.05-0.15	0.05-0.15	0	0	0	100	0	15:2:2:30 (100 quartz in cherty laminae; feldspar ratios unresolvable due to fine grain size)	15 biotite	Tr siliceous lining vugs	0	0	0	0	0	0	0	0	0	0	3 pyrite (syngenetic/diagenetic)	SILTSTONE/CHERT (outlet; sample also contains 5% small pebbles including Paleozoic limestone and Proterozoic greywacke)

Mineral Components

Sample No.	Colour	Structure	Primary Texture	Grain Size (mm)			Crystals/Sand Grains			Groundmass/Matrix			Textural Components (%)							Primary/Metamorphic/Alteration Minerals (%)		
				Xls/Sand Grains	Visible Fragments	Groundmass/Matrix	Qtz	Plag	Fragments	Primary/Met.	Tectonic/Alt.	Mafics/Plag/K-Spar/Qtz	Silicates			FeTi-Oxides	Sulphides	Lithology				
													Ser	Other	Carbonates							
TPKRC10-50-03	Speckled black and white	Massive	Coarse-grained subhedral granular	NA	NA	1-3	0	0	0	0	100	0	15:35:20:30	1:3 biotite 2 hornblende	0	0.5 epidote 0.1 titanite	Tr disseminated calcite	Tr magnetite	0	0	QUARTZ MONZONITE	
TPKRC10-51-02	Speckled black and white with orange-pink hematite stain	Weakly foliated	Porphyritic with medium-grained granitoid groundmass	2-3 (biotite and plagioclase phenocrysts)	NA	0.5-0.7	0	5	0	85	0	10:7:20 (feldspar unresolvable due to fine grain size of groundmass in part of differential alteration)	10 biotite (mainly as phenocrysts)	0	0	0	Tr disseminated calcite	0	0	Low tr pyrite	BIOTITE - FELDSPAR PORPHYRY (textural subphase of quartz monzonite; weakly sheared)	
TPKRC10-52-02	Speckled black and white	Massive	Coarse-grained subhedral granular	NA	NA	1-3	0	0	0	100	0	15:35:25:25	10 biotite 5 hornblende	0	2 epidote 0.1 titanite	0	0.2 magnetite	0	0	Low tr pyrite	QUARTZ MONZONITE	
TPKRC10-53-03	Speckled black and white with 10% rusty limonite-stained patches	Weakly foliated with 10% of shear-brecciated and shear-cushed seams	Coarse-grained subhedral granular	NA	NA	Primary: 1-3 Granulated: 0.05-0.2	0	0	0	80	20	10:30:30:30	10 biotite	0	Tr titanite	0.2 siderite (supergene; on fractures and in vugs; SEM confirmed) No calcite	0.2 magnetite 0.5 leucoxene	0.5 pyrite (as 5% cement in brecciated zones) Tr marcasite (supergene; on fractures)	0	0	QUARTZ MONZONITE (sheared)	
TPKRC10-54-03	Speckled black and white	Weakly foliated with 5% shear seams; also all qtz sugary, pressure-granulated	Coarse-grained subhedral granular	NA	NA	1-3 (qtz granulated to 0.05-0.3)	0	0	0	60	40	10:35:20:35	10 biotite	0	0.2 titanite	1 calcite (in granulated quartz)	0.1 magnetite (concentrated in shear seams)	0	0	QUARTZ MONZONITE (sheared)		
TPKRC10-55-03	Speckled black and white	Massive to shear-fractured with 10% partially granulated shear seams	Coarse-grained subhedral granular	NA	NA	Primary: 1-3 Granulated: 0.1-0.5	0	0	0	90	10	15:35:25:25	15 biotite	0	0.5 titanite	Tr calcite	0.1 magnetite (confined to shear seams)	0	0	QUARTZ MONZONITE (weakly sheared)		
TPKRC10-56-02	Speckled black and white to pale pink	Weakly foliated	Coarse-grained subhedral granular	NA	NA	1-2	0	0	0	100	0	10:30:30:30	10 biotite	0	0.5 titanite	1 calcite (fracture-hosted)	1 magnetite (moderately magnetic)	0	0	QUARTZ MONZONITE		
TPKRC10-57-06	Speckled black and white	Weakly to moderately foliated with 5% shear seams; also most qtz sugary, pressure-granulated	Coarse-grained subhedral granular	NA	NA	1-3 (most qtz granulated to 0.1-0.5)	0	0	0	70	30	15:30:30:25	15 biotite	0	0.2 titanite	1 calcite (fracture-hosted, mainly in granulated qtz)	0.1 magnetite 0.1 leucoxene	Tr pyrite	0	0	QUARTZ MONZONITE (weakly sheared)	
TPKRC10-58-04	Speckled black and white	Weakly foliated with 5% xenoliths; most qtz sugary, shear granulated	Coarse-grained subhedral granular	NA	5+ (internal 0.1-0.2)	1-2 (qtz granulated to 0.1-0.5)	0	0	5	65	30	10:35:25:30	10 biotite	0	0.2 titanite	0.5 calcite (fracture-hosted)	0.2 magnetite	Tr pyrite	0	0	QUARTZ MONZONITE (weakly sheared, with greywacke xenoliths)	
TPKRC10-59-06	Hematite-stained orange-pink	Massive with 10% granulated quartzose to silicified shear seams and patchily fractured to brecciated felspar crystals	Coarse-grained euhedral granular	NA	NA	Primary: 1-2 Granulated: 0.05-0.3	0	0	0	90	10	30:60:35	3 biotite (K-spar is perthitic)	0	0	1 calcite (fracture and shear-hosted)	Tr magnetite (as coarse crystal clusters; SEM confirmed)	0.1 pyrrhotite	0	0	LEUCOGRANITE (weakly sheared)	
TPKRC10-60-08	Hematite-stained orange-pink	Massive with 10% granulated shear seams; also most qtz pressure-granulated	Coarse-grained subhedral granular	NA	NA	Primary: 1-2 Granulated: 0.15-0.4	0	0	0	70	30	30:60:35	3 biotite (variably chlorite)	0	0	0.5 calcite (disseminated)	Tr earthy red hematite	Tr arsenopyrite Tr pyrite (both finely disseminated)	0	0	LEUCOGRANITE (sheared)	

Mineral Components

Sample No.	Colour	Structure	Primary Texture	Grain Size (mm)			Textural Components (%)				Primary/Metamorphic/Alteration Minerals (%)											
				Xls/Sand Grains	Visible Fragments	Ground-mass/Matrix	Crystals/Sand Grains		Groundmass/Matrix		Silicates											
							Qtz	Plag	Visible Fragments	Primary/Met.	Tec-tonic/Alt.	Ratio Maics/Plag/K-Spar/Qtz	Mafic	Ser	Other Silicates	Carbonates	FeTi-Oxides	Sulphides	Lithology			
	b) 10% of sample: hematite staining orange-pink	Weakly (flow) foliated	Aplitic	0.5 (sparsely)	NA	0.05	0	0	0	100	0	3:2:?? (qtz:feldspar ratio unresolvable due to SEM uniformly fine grain size)	3 biotite	0	0	0	0	0.2 specular hematite	0	0	LEUCOGRANITE (epitaxial dyke)	
TPKRC10-74-06	Speckled black and white with dark green xenoliths	Weakly foliated with sparse, small, wispy xenoliths	Coarse-grained subhedral granular	NA	5-10+ (internal 0.2-0.5)	1-3	0	0	15	85	0	15:30:25:30 (variably hornblende + chlorite in xenoliths)	15 biotite	0	2 epidote	Tr titanite	0	0	0	0	0	QUARTZ MONZONITE (with basalt xenoliths)
TPKRC10-75-04	Speckled black and pale pink with patchy brick-red hematite staining	Weakly foliated	Coarse-grained subhedral granular	NA	NA	1-3	0	0	0	100	0	17:40:20:25 (variably chlorite)	15 biotite	0	0	0	0	0	0	0	0	QUARTZ MONZONITE

Appendix C

Heavy Mineral Processing Weights and Physical Characteristics of the Till Samples

Sample Number	Weight (kg wet)				-2.0 mm Table Concentrate Weight (g dry)					Sample Description										CLASS		
					Total	Heavy Liquid Separation (S.G. 3.3)				S i z e	Clasts (> 2.0 mm)*				Matrix (<2.0 mm)							
	Lights	HMC				V/S	GR	LS	OT		Percentage				Distribution		O R G	Colour				
		Total	Non Mag	Mag							S/U	SD	ST	CY	SD	CY						
TPKRC-10-01-01	11.4	10.9	1.4	9.5	329.2	300.3	28.9	14.2	14.7	C	40	30	30	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-02-01	10.9	10.4	1.3	9.1	370.9	322.2	48.7	26.9	21.8	C	20	50	30	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-02-02	9.1	8.6	0.8	7.8	350.5	307.0	43.5	24.6	18.9	C	20	50	30	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-02-03	7.4	6.9	1.2	5.7	254.2	228.6	25.6	14.7	10.9	C	30	50	20	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-03-01	3.4	2.9	0.5	2.4	212.6	200.6	12.0	8.0	4.0	C	40	55	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-03-02	8.6	8.1	0.7	7.4	300.0	268.2	31.8	19.3	12.5	C	40	55	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-03-03	6.8	6.3	0.9	5.4	225.0	190.9	34.1	20.1	14.0	C	35	60	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-04-01	8.6	8.1	0.8	7.3	261.2	230.0	31.2	17.1	14.1	C	30	50	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-05-01	6.8	6.3	0.8	5.5	189.4	170.7	18.7	10.4	8.3	C	15	75	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-05-02	9.2	8.7	0.9	7.8	198.4	175.9	22.5	14.0	8.5	C	15	80	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-05-03	6.5	6.0	0.5	5.5	195.2	178.4	16.8	10.9	5.9	C	15	80	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-06-01	8.2	7.7	1.2	6.5	249.3	235.4	13.9	5.6	8.3	C	15	85	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-07-01	11.4	10.9	1.1	9.8	280.2	262.9	17.3	13.2	4.1	C	15	85	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-07-02	9.0	8.5	1.1	7.4	326.3	305.5	20.8	14.1	6.7	C	25	70	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-07-03	5.6	5.1	1.0	4.1	211.3	197.6	13.7	7.8	5.9	C	20	85	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-08-01	7.3	6.8	1.1	5.7	330.0	305.3	24.7	12.4	12.3	C	15	85	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-09-01	6.7	6.2	0.5	5.7	245.2	234.7	10.5	6.7	3.8	C	10	90	Tr	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-10-01	6.8	6.3	0.8	5.5	232.2	225.8	6.4	5.7	0.7	C	10	90	0	0	U	+	Y	-	N	GY	BE	TILL
TPKRC-10-10-02	11.3	10.8	1.2	9.6	311.5	303.2	8.3	8.2	0.1	C	5	95	0	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-11-01	5.4	4.9	0.7	4.2	169.1	159.6	9.5	6.8	2.7	C	10	90	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-11-02	7.3	6.8	1.0	5.8	237.6	214.9	22.7	15.0	7.7	C	10	85	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-11-03	8.3	7.8	0.8	7.0	277.5	258.4	19.1	12.2	6.9	C	10	90	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-11-04	12.0	11.5	1.0	10.5	242.1	219.4	22.7	12.8	9.9	C	5	90	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-12-01	12.2	11.7	0.7	11.0	387.8	373.4	14.4	9.4	5.0	C	Tr	100	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-13-01	7.5	7.0	0.7	6.3	250.6	234.8	15.8	10.8	5.0	C	10	90	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-13-02	5.7	5.2	0.6	4.6	190.0	178.8	11.2	8.0	3.2	C	10	90	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-14-01	9.5	9.0	0.9	8.1	305.9	281.1	24.8	16.7	8.1	C	10	85	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-15-01	8.1	7.6	0.8	6.8	349.8	330.4	19.4	13.5	5.9	C	15	85	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-15-02	9.7	9.2	0.8	8.4	280.9	250.1	30.8	20.8	10.0	C	10	90	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-16-01	12.0	11.5	1.0	10.5	398.8	349.9	48.9	30.5	18.4	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-16-02	11.4	10.9	0.6	10.3	251.9	208.3	43.6	27.2	16.4	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-16-03	1.9	1.4	0.4	1.0	138.5	132.2	6.3	3.9	2.4	C	30	50	20	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-17-01	9.6	9.1	0.7	8.4	374.9	348.0	26.9	18.4	8.5	C	10	85	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-18-01	9.5	9.0	0.7	8.3	254.3	233.3	21.0	13.5	7.5	C	15	85	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-18-02	8.8	8.3	0.8	7.5	278.3	249.6	28.7	17.9	10.8	C	15	85	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-19-01	7.3	6.8	0.7	6.1	285.3	264.4	20.9	11.2	9.7	C	5	95	0	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-20-01	11.8	11.3	0.9	10.4	327.8	313.3	14.5	9.2	5.3	C	5	90	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-21-01	8.5	8.0	0.7	7.3	279.1	248.9	30.2	19.6	10.6	C	35	55	10	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-21-02	8.9	8.4	0.6	7.8	249.2	214.5	34.7	22.8	11.9	C	35	55	10	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-23-01	10.9	10.4	0.7	9.7	412.2	382.6	29.6	15.2	14.4	C	5	90	5	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-24-01	11.4	10.9	0.8	10.1	347.1	290.7	56.4	28.2	28.2	C	5	90	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-24-02	10.3	9.8	0.8	9.0	338.1	292.1	46.0	23.0	23.0	C	10	85	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-24-03	7.8	7.3	0.7	6.6	375.0	339.6	35.4	17.7	17.7	C	15	80	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-25-01	9.5	9.0	1.1	7.9	283.8	244.0	39.8	19.9	19.9	C	15	55	30	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-25-02	10.6	10.1	0.8	9.3	415.1	357.3	57.8	28.9	28.9	C	15	55	30	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-25-03	10.1	9.6	0.7	8.9	334.6	289.0	45.6	22.8	22.8	C	15	55	30	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-25-04	8.2	7.7	0.9	6.8	365.3	326.1	39.2	19.6	19.6	C	15	55	30	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-26-01	7.4	6.9	0.4	6.5	356.3	331.9	24.4	12.2	12.2	C	Tr	100	Tr	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-27-01	9.3	8.8	0.5	8.3	264.5	224.9	39.6	19.8	19.8	C	5	85	10	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-27-02	10.9	10.4	0.5	9.9	306.5	264.3	42.2	21.1	21.1	C	10	80	10	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-27-03	9.1	8.6	0.7	7.9	357.9	307.7	50.2	25.1	25.1	C	10	80	10	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-27-04	11.0	10.5	0.8	9.7	259.1	219.1	40.0	20.0	20.0	C	20	40	40	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-27-05	10.6	10.1	0.8	9.3	379.1	322.9	56.2	28.1	28.1	C	20	45	35	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-28-01	8.3	7.8	0.6	7.2	357.9	327.7	30.2	15.1	15.1	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-28-02	8.9	8.4	0.6	7.8	271.7	234.9	36.8	18.4	18.4	C	20	40	40	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-28-03	8.6	8.1	0.6	7.5	304.5	264.7	39.8	19.9	19.9	C	20	50	30	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-28-04	11.1	10.6	0.1	10.6	327.2	260.4	66.8	33.4	33.4	C	25	50	25	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-28-05	11.2	10.7	0.7	10.0	351.8	311.2	40.6	20.3	20.3	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-29-01	10.4	9.9	0.5	9.4	278.8	214.2	64.6	32.3	32.3	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-30-01	10.5	10.0	0.6	9.4	281.3	228.1	53.2	26.6	26.6	C	20	50	30	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-30-02	10.9	10.4	0.5	9.9	223.9	183.1	40.8	24.0	16.8	C	5	85	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-30-03	11.7	11.2	0.5	10.7	226.5	187.7	38.8	24.4	14.4	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-31-01	6.8	6.3	0.5	5.8	232.3	208.0	24.3	16.3	8.0	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-31-02	11.6	11.1	0.5	10.6	380.7	336.6	44.1	27.6	16.5	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-31-03	10.3	9.8	0.9	8.9	286.2	246.3	39.9	24.1	15.8	C	Tr	100	Tr	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-31-04	11.6	11.1	0.6	10.5	270.7	232.1	38.6	25.4	13.2	C	Tr	100	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-31-05	10.8	10.3	0.6	9.7	253.6	205.3	48.3	30.6	17.7	C	Tr	100	Tr	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-31-06	10.8	10.3	0.6	9.7	200.9	168.2	32															

Sample Number	Weight (kg wet)				-2.0 mm Table Concentrate Weight (g dry)					Sample Description										CLASS		
					Total	Heavy Liquid Separation (S.G. 3.3)				S i z e	Clasts (> 2.0 mm)*				Matrix (<2.0 mm)							
	Lights	HMC				V/S	GR	LS	OT		Percentage				Distribution			Colour				
		Total	Non Mag	Mag							S/U	SD	ST	CY	O R G	SD	CY					
TPKRC-10-32-01	11.3	10.8	0.7	10.1	336.3	301.9	34.4	22.3	12.1	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-32-02	10.6	10.1	0.8	9.3	280.5	243.4	37.1	22.3	14.8	C	20	70	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-32-03	10.0	9.5	0.7	8.8	400.4	354.6	45.8	29.0	16.8	C	20	70	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-32-04	11.4	10.9	0.8	10.1	246.7	202.7	44.0	25.7	18.3	C	30	60	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-33-01	10.5	10.0	0.5	9.5	258.5	217.4	41.1	26.3	14.8	C	20	70	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-33-02	11.2	10.7	0.5	10.2	375.3	322.2	53.1	33.5	19.6	C	20	70	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-33-03	10.0	9.5	0.5	9.0	288.1	248.3	39.8	24.8	15.0	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-33-04	8.4	7.9	1.0	6.9	245.4	209.8	35.6	21.4	14.2	C	20	70	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-33-05	10.5	10.0	0.9	9.1	292.4	253.6	38.8	22.9	15.9	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-34-01	11.1	10.6	0.9	9.7	260.7	228.6	32.1	20.3	11.8	C	10	90	Tr	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-35-01	10.8	10.3	0.6	9.7	270.9	232.0	38.9	24.1	14.8	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-35-02	11.2	10.7	0.6	10.1	335.3	290.1	45.2	28.0	17.2	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-36-01	7.2	6.7	0.6	6.1	196.8	174.6	22.2	14.0	8.2	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-37-01	10.5	10.0	0.9	9.1	364.3	323.6	40.7	24.7	16.0	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-37-02	11.8	11.3	0.7	10.6	336.2	299.5	36.7	22.8	13.9	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-37-03	7.5	7.0	0.3	6.7	302.2	273.2	29.0	17.8	11.2	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-38-01	9.1	8.6	0.7	7.9	252.1	229.8	22.3	13.5	8.8	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-39-01	8.7	8.2	0.8	7.4	437.0	408.9	28.1	15.6	12.5	C	20	60	20	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-40-01	7.3	6.8	0.7	6.1	197.9	177.6	20.3	11.8	8.5	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-40-02	11.4	10.9	0.7	10.2	333.9	294.9	39.0	22.1	16.9	C	30	50	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-40-03	19.9	19.4	0.8	18.6	335.5	293.0	42.5	23.4	19.1	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-40-04	9.1	8.6	0.7	7.9	279.6	240.0	39.6	22.3	17.3	C	20	70	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-40-05	9.7	9.2	0.9	8.3	344.7	300.7	44.0	25.7	18.3	C	30	50	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-41-01	9.4	8.9	0.6	2.9	334.9	298.2	36.7	20.4	16.3	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-41-02	11.3	10.8	0.7	10.1	334.6	285.6	49.0	30.4	18.6	C	25	50	25	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-41-03	10.8	10.3	0.7	9.6	341.9	290.4	51.5	31.9	19.6	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-41-04	9.0	8.5	0.4	8.1	358.4	325.1	33.3	20.8	12.5	C	20	50	30	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-41-05	8.5	8.0	0.5	7.5	252.3	222.3	30.0	17.6	12.4	C	20	70	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-41-06	9.2	8.7	0.5	8.2	282.4	252.4	30.0	19.3	10.7	C	30	60	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-41-07	4.9	4.4	0.5	3.9	184.7	169.1	15.6	9.8	5.8	C	20	60	20	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-42-01	7.1	6.6	0.4	6.2	269.9	245.0	24.9	15.7	9.2	C	20	70	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-42-02	10.6	10.1	0.7	9.4	306.6	266.1	40.5	25.0	15.5	C	55	5	40	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-42-03	7.9	7.4	1.0	6.4	258.8	240.1	18.7	11.9	6.8	C	75	5	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-42-04	7.0	6.5	0.7	5.8	239.4	225.3	14.1	8.5	5.6	C	80	5	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-42-05	7.2	6.7	0.6	6.1	231.5	210.6	20.9	11.9	9.0	C	5	90	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-42-06	11.1	10.6	0.4	10.2	176.5	119.2	57.3	28.5	28.8	C	5	95	Tr	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-42-07	11.0	10.5	0.5	10.0	388.2	350.7	37.5	19.0	18.5	C	10	85	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-42-08	10.2	9.7	0.3	9.4	248.3	214.7	33.6	16.6	17.0	C	5	95	Tr	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-43-01	11.8	11.3	0.4	10.9	342.0	299.6	42.4	23.9	18.5	C	35	60	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-43-02	7.6	7.1	0.6	6.5	262.3	241.9	20.4	12.2	8.2	C	45	50	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-44-01	9.7	9.2	0.6	8.6	285.2	259.0	26.2	14.8	11.4	C	10	90	Tr	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-46-01	10.5	10.0	0.5	9.5	269.6	234.0	35.6	21.5	14.1	C	45	50	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-46-02	9.4	8.9	0.6	8.3	252.8	216.8	36.0	22.1	13.9	C	55	40	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-47-01	11.6	11.1	0.7	10.4	287.5	250.9	36.6	21.2	15.4	C	40	55	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-48-01	10.0	9.5	0.6	8.9	303.9	265.1	38.8	21.4	17.4	C	20	75	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-48-02	8.6	8.1	0.5	7.6	214.8	185.4	29.4	17.0	12.4	C	25	60	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-48-03	11.1	10.6	0.7	9.9	283.1	249.9	33.2	19.4	13.8	C	20	70	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-49-01	7.5	7.0	0.5	6.5	263.6	237.2	26.4	15.2	11.2	C	20	70	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-49-02	10.3	9.8	0.3	9.5	282.1	259.5	22.6	15.1	7.5	C	10	85	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-50-01	11.7	11.2	0.6	10.6	302.0	261.6	40.4	24.2	16.2	C	30	50	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-50-02	11.7	11.2	0.6	10.6	288.8	250.8	38.0	23.4	14.6	C	45	50	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-51-01	9.0	8.5	0.8	7.7	353.4	325.1	28.3	17.2	11.1	C	45	55	Tr	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-52-01	10.1	9.6	0.7	8.9	331.0	296.1	34.9	21.5	13.4	C	25	70	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-53-01	4.4	3.9	0.5	3.4	179.6	165.3	14.3	8.9	5.4	C	30	70	Tr	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-53-02	10.5	10.0	0.9	9.1	217.6	180.0	37.6	21.7	15.9	C	25	65	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-54-01	9.3	8.8	0.6	8.2	362.7	334.7	28.0	16.2	11.8	C	10	90	Tr	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-54-02	10.4	9.9	0.6	9.3	392.4	359.8	32.6	18.6	14.0	C	10	90	Tr	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-55-01	4.8	4.3	0.4	3.9	118.0	105.4	12.6	7.8	4.8	C	20	75	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-55-02	10.2	9.7	0.6	9.1	224.1	194.2	29.9	18.7	11.2	C	25	70	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-56-01	11.2	10.7	0.3	10.4	308.3	273.5	34.8	19.1	15.7	C	20	75	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-57-01	8.7	8.2	0.5	7.7	204.8	180.2	24.6	14.3	10.3	C	30	65	5	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-57-02	8.3	7.8	0.5	7.3	283.4	254.9	28.5	15.8	12.7	C	35	60	5	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-57-03	11.5	11.0	0.8	10.2	323.9	285.6	38.3	20.7	17.6	C	35	50	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-57-04	11.7	11.2	0.7	10.5	361.2	301.5	59.7	38.2	21.5	C	30	55	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-57-05	12.1	11.6	0.1	11.6	364.1	315.7	48.4	29.0	19.4	C	35	45	20	0	U	+	Y	-	N	GB	GB	TILL

Sample Number	Weight (kg wet)				-2.0 mm Table Concentrate Weight (g dry)					Sample Description										CLASS		
					Total	Heavy Liquid Separation (S.G. 3.3)				S i z e	Clasts (> 2.0 mm)*				Matrix (<2.0 mm)							
	Lights	HMC				V/S	GR	LS	OT		Percentage				Distribution		O R G	Colour				
		Total	Non Mag	Mag							S/U	SD	ST	CY	SD	CY						
TPKRC-10-58-01	11.0	10.5	0.6	9.9	260.4	222.1	38.3	20.6	17.7	C	45	50	5	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-58-02	6.6	6.1	0.5	5.6	176.0	159.9	16.1	10.3	5.8	C	35	55	10	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-58-03	12.4	11.9	0.6	11.3	282.8	229.5	53.3	36.9	16.4	C	30	65	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-59-01	11.2	10.7	0.5	10.2	220.7	192.2	28.5	17.2	11.3	C	20	50	30	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-59-02	11.7	11.2	0.7	10.5	272.4	240.3	32.1	19.4	12.7	C	45	40	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-59-03	11.6	11.1	0.7	10.4	332.6	299.6	33.0	20.7	12.3	C	45	35	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-59-04	13.2	12.7	1.0	11.7	305.2	265.7	39.5	22.9	16.6	C	30	65	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-59-05	8.3	7.8	0.8	7.0	299.1	270.9	28.2	17.7	10.5	C	20	80	Tr	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-60-01	8.6	8.1	0.7	7.4	318.9	296.2	22.7	13.4	9.3	C	45	25	30	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-60-02	11.5	11.0	1.0	10.0	309.0	272.3	36.7	19.8	16.9	C	40	30	30	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-60-03	7.6	7.1	0.9	6.2	273.4	246.8	26.6	14.5	12.1	C	45	50	5	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-60-04	9.7	9.2	0.6	8.6	294.0	260.6	33.4	18.7	14.7	C	35	45	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-60-05	10.5	10.0	0.6	9.4	359.4	326.6	32.8	18.6	14.2	C	40	35	25	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-60-06	9.7	9.2	0.8	8.4	286.5	249.1	37.4	20.2	17.2	C	35	45	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-60-07	10.7	10.2	0.5	9.7	288.8	242.6	46.2	25.0	21.2	C	40	40	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-61-01	11.2	10.7	0.6	10.1	428.1	391.4	36.7	23.6	13.1	C	10	90	Tr	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-62-01	11.7	11.2	0.1	11.1	425.8	371.4	54.4	29.5	24.9	C	10	90	0	0	U	+	Y	-	N	GB	GB	SANDY TILL
TPKRC-10-63-01	10.2	9.7	0.5	9.2	381.3	325.4	55.9	42.4	13.5	C	15	85	Tr	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-63-02	11.9	11.4	0.7	10.7	401.8	344.4	57.4	43.5	13.9	C	Tr	100	0	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-63-03	11.2	10.7	0.8	9.9	392.8	346.7	46.1	31.6	14.5	C	Tr	100	0	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-63-04	10.7	10.2	0.8	9.4	353.6	309.0	44.6	26.3	18.3	C	Tr	100	0	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-64-01	11.2	10.7	0.7	10.0	332.7	306.7	26.0	14.4	11.6	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-64-02	9.3	8.8	0.1	8.7	305.5	275.3	30.2	17.5	12.7	C	15	70	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-65-01	10.6	10.1	0.6	9.5	326.2	297.3	28.9	17.5	11.4	C	15	65	20	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-66-01	10.6	10.1	0.1	10.0	363.0	337.9	25.1	16.6	8.5	C	5	90	5	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-66-02	11.6	11.1	0.8	10.3	315.4	283.8	31.6	19.6	12.0	C	Tr	100	Tr	0	U	+	Y	-	N	GY	GY	TILL
TPKRC-10-67-01	2.4	1.9	0.2	1.7	116.6	112.1	4.5	2.8	1.7	C	5	95	0	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-68-01	10.9	10.4	0.6	9.8	303.3	273.2	31.0	15.5	15.5	C	10	80	10	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-68-02	11.8	11.3	1.0	10.3	285.5	243.1	42.4	21.2	21.2	C	20	60	20	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-69-01	9.2	8.7	0.5	8.2	320.4	286.6	33.8	16.9	16.9	C	20	60	20	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-69-02	11.0	10.5	0.5	10.0	348.3	310.1	38.2	19.1	19.1	C	10	75	15	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-69-03	9.7	9.2	0.6	8.6	306.5	269.5	37.0	18.5	18.5	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-69-04	12.4	11.9	0.5	11.4	285.6	234.6	51.0	25.5	25.5	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-69-05	11.7	11.2	0.5	10.7	315.3	251.3	64.0	32.0	32.0	C	20	65	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-69-06	12.3	11.8	0.6	11.2	270.4	204.8	65.6	32.8	32.8	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-69-07	12.9	12.4	0.8	11.6	384.7	326.5	58.2	29.1	29.1	C	20	55	25	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-69-08	11.8	11.3	0.7	10.6	319.8	273.8	46.0	23.0	23.0	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-70-01	10.3	9.8	0.5	9.3	363.8	325.8	38.0	19.0	19.0	C	20	55	25	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-70-02	11.3	10.8	0.7	10.1	339.6	295.8	43.8	21.9	21.9	C	10	75	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-70-03	11.2	10.7	0.5	10.2	306.3	262.7	43.6	21.8	21.8	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-70-04	12.2	11.7	0.5	11.2	326.1	277.5	48.6	24.3	24.3	C	15	65	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-70-05	12.1	11.6	0.4	11.2	311.8	264.0	47.8	23.9	23.9	C	15	70	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-70-06	10.7	10.2	0.6	9.6	376.2	339.2	37.0	18.5	18.5	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-71-01	6.4	5.9	0.7	5.2	255.1	234.3	20.8	10.4	10.4	C	20	55	25	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-71-02	7.8	7.3	0.5	6.8	312.3	285.7	26.6	13.3	13.3	C	15	65	20	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-71-03	11.0	10.5	0.5	10.0	373.0	329.0	44.0	22.0	22.0	C	20	50	30	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-71-04	12.2	11.7	0.7	11.0	375.2	337.4	37.8	18.9	18.9	C	15	60	25	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-71-05	11.0	10.5	0.8	9.7	357.7	327.5	30.2	16.4	13.8	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-72-01	10.9	10.4	0.6	9.8	316.4	281.1	35.3	20.4	14.9	C	10	70	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-72-02	10.8	10.3	0.6	9.7	302.6	261.3	41.3	25.1	16.2	C	15	70	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-72-03	10.7	10.2	0.6	9.6	308.2	269.6	38.6	24.3	14.3	C	15	65	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-72-04	10.8	10.3	0.5	9.8	318.5	276.2	42.3	25.1	17.2	C	20	55	25	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-72-05	10.3	9.8	0.8	9.0	298.8	267.2	31.6	18.9	12.7	C	15	70	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-72-06	11.0	10.5	0.4	10.1	274.3	232.3	42.0	25.7	16.3	C	15	60	25	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-72-07	11.3	10.8	0.7	10.1	273.2	237.6	35.6	18.9	16.7	C	25	50	25	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-72-08	11.0	10.5	0.7	9.8	337.0	317.4	19.6	16.8	2.8	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-73-01	7.1	6.6	0.7	5.9	248.3	224.7	23.6	14.8	8.8	C	20	55	25	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-73-02	9.8	9.3	0.1	9.3	367.1	340.4	26.7	17.7	9.0	C	10	80	10	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-73-03	9.5	9.0	0.5	8.5	273.3	240.8	32.5	20.9	11.6	C	15	70	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-73-04	9.4	8.9	0.4	8.5	334.2	295.4	38.8	24.8	14.0	C	10	75	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-73-05	11.0	10.5	0.5	10.0	389.7	346.6	43.1	27.5	15.6	C	10	75	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-74-01	10.8	10.3	0.3	10.0	414.4	377.7	36.7	21.7	15.0	C	30	40	30	0	U	+	Y	-	N	BE	BE	TILL
TPKRC-10-74-02	11.6	11.1	0.5	10.6	340.4	291.8	48.6	28.3	20.3	C	20	50	30	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-74-03	10.6	10.1	0.8	9.3	330.8	290.0	40.8	23.9	16.9	C	20	60	20	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-74-04	10.6	10.1	0.9	9.3	311.2	256.3	54.9	31.4	23.5	C	15	70	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-74-05	10.1	9.6	0.7	8.9	272.2	239.7	32.5	21.2	11.3	C	10	75	15	0	U	+	Y	-	N	GB	GB	TILL
TPKRC-10-75-01	10.4	9.9	0.7	9.2	366.9																	

Appendix D

**Gold Grain Summary, Descriptions and Calculated Visible Gold Values
for the Nonferromagnetic Heavy Mineral Fraction of the Till Samples**

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
TPKRC-10-01-01	1	0	0	1	14.2	6	0	0	6
TPKRC-10-02-01	9	4	3	2	26.9	134	84	45	4
TPKRC-10-02-02	3	2	0	1	24.6	22	7	0	15
TPKRC-10-02-03	1	1	0	0	14.7	2	2	0	0
TPKRC-10-03-01	6	1	2	3	8.0	54	10	34	9
TPKRC-10-03-02	8	6	2	0	19.3	51	46	5	0
TPKRC-10-03-03	19	6	12	1	20.1	135	107	28	1
TPKRC-10-04-01	8	2	6	0	17.1	55	13	42	0
TPKRC-10-05-01	7	2	5	0	10.4	42	10	32	0
TPKRC-10-05-02	27	9	9	9	14.0	240	88	116	36
TPKRC-10-05-03	24	5	14	5	10.9	683	42	279	362
TPKRC-10-06-01	35	6	20	9	5.6	2895	50	2680	165
TPKRC-10-07-01	52	9	15	28	13.2	760	330	132	298
TPKRC-10-07-02	38	12	13	13	14.1	612	204	266	143
TPKRC-10-07-03	28	7	7	14	7.8	3872	53	2739	1080
TPKRC-10-08-01	10	2	5	3	12.4	81	2	46	32
TPKRC-10-09-01	13	2	4	7	6.7	263	13	165	85
TPKRC-10-10-01	6	0	3	3	5.7	167	0	9	157
TPKRC-10-10-02	5	2	2	1	8.2	105	69	13	23
TPKRC-10-11-01	4	1	0	3	6.8	189	94	0	95
TPKRC-10-11-02	7	1	4	2	15.0	87	2	55	30
TPKRC-10-11-03	18	7	6	5	12.2	1026	51	968	7
TPKRC-10-11-04	12	3	5	4	12.8	271	135	85	51
TPKRC-10-12-01	7	5	2	0	9.4	1480	1475	5	0
TPKRC-10-13-01	3	1	0	2	10.8	22	18	0	5
TPKRC-10-13-02	3	1	2	0	8.0	30	24	6	0
TPKRC-10-14-01	7	4	3	0	16.7	145	9	136	0
TPKRC-10-15-01	5	1	3	1	13.5	22	2	21	<1
TPKRC-10-15-02	2	1	1	0	20.8	1	1	<1	0
TPKRC-10-16-01	5	3	2	0	30.5	9	7	3	0
TPKRC-10-16-02	0	0	0	0	27.2	0	0	0	0
TPKRC-10-16-03	0	0	0	0	3.9	0	0	0	0
TPKRC-10-17-01	8	1	5	2	18.4	35	10	19	6
TPKRC-10-18-01	39	8	14	17	13.5	1983	1739	40	204
TPKRC-10-18-02	21	6	5	10	17.9	293	24	48	221
TPKRC-10-19-01	36	9	11	16	11.2	492	108	240	144
TPKRC-10-20-01	0	0	0	0	9.2	0	0	0	0
TPKRC-10-21-01	7	2	4	1	19.6	760	8	751	1
TPKRC-10-21-02	21	8	9	4	22.8	952	68	866	18
TPKRC-10-23-01	219	40	76	103	15.2	11122	815	6445	3862
TPKRC-10-24-01	15	4	7	4	28.2	772	50	531	190
TPKRC-10-24-02	30	10	7	13	23.0	583	401	42	140
TPKRC-10-24-03	10	3	5	2	17.7	608	496	71	41
TPKRC-10-25-01	17	2	7	8	19.9	104	28	45	30
TPKRC-10-25-02	10	1	4	5	28.9	28	1	17	9
TPKRC-10-25-03	15	1	9	5	22.8	313	28	231	53
TPKRC-10-25-04	8	4	2	2	19.6	172	158	2	11
TPKRC-10-26-01	43	8	16	19	12.2	1130	249	633	248
TPKRC-10-27-01	50	15	11	24	19.8	629	368	64	197
TPKRC-10-27-02	95	7	34	54	21.1	3415	444	1989	982
TPKRC-10-27-03	22	4	8	10	25.1	7265	7149	91	25
TPKRC-10-27-04	31	10	6	15	20.0	640	173	297	169
TPKRC-10-27-05	11	4	5	2	28.1	610	33	553	24
TPKRC-10-28-01	13	2	3	8	15.1	63	2	32	29
TPKRC-10-28-02	6	2	2	2	18.4	352	323	5	25
TPKRC-10-28-03	8	3	4	1	19.9	99	47	48	4
TPKRC-10-28-04	2	1	1	0	33.4	5	2	2	0
TPKRC-10-28-05	8	6	2	0	20.3	80	77	2	0
TPKRC-10-29-01	37	13	13	11	32.3	551	88	411	52
TPKRC-10-30-01	17	4	8	5	26.6	156	65	54	37
TPKRC-10-30-02	7	4	2	1	24.0	72	48	24	1
TPKRC-10-30-03	5	1	3	1	24.4	38	15	19	3
TPKRC-10-31-01	4	2	1	1	16.3	528	232	291	5
TPKRC-10-31-02	7	0	4	3	27.6	32	0	30	2
TPKRC-10-31-03	1	1	0	0	24.1	1	1	0	0
TPKRC-10-31-04	20	3	7	10	25.4	44	11	13	21
TPKRC-10-31-05	6	2	2	2	30.6	25	2	9	15
TPKRC-10-31-06	12	2	6	4	20.1	16157	16079	36	42

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
TPKRC-10-32-01	3	1	2	0	22.3	7	<1	7	0
TPKRC-10-32-02	19	10	7	2	22.3	139	107	31	1
TPKRC-10-32-03	4	2	2	0	29.0	11	9	2	0
TPKRC-10-32-04	2	2	0	0	25.7	1	1	0	0
TPKRC-10-33-01	5	3	1	1	26.3	30	8	14	7
TPKRC-10-33-02	3	1	2	0	33.5	<1	<1	<1	0
TPKRC-10-33-03	1	1	0	0	24.8	3	3	0	0
TPKRC-10-33-04	2	2	0	0	21.4	70	70	0	0
TPKRC-10-33-05	0	0	0	0	22.9	0	0	0	0
TPKRC-10-34-01	60	13	23	24	20.3	3724	1968	1553	203
TPKRC-10-35-01	2	1	1	0	24.1	8	8	<1	0
TPKRC-10-35-02	4	3	1	0	28.0	8	5	3	0
TPKRC-10-36-01	10	5	2	3	14.0	93	48	14	30
TPKRC-10-37-01	3	3	0	0	24.7	14	14	0	0
TPKRC-10-37-02	3	1	0	2	22.8	8	8	0	<1
TPKRC-10-37-03	10	6	3	1	17.8	260	255	4	1
TPKRC-10-38-01	12	3	4	5	13.5	164	131	20	13
TPKRC-10-39-01	32	13	15	4	15.6	2072	819	1247	6
TPKRC-10-40-01	5	4	1	0	11.8	651	651	<1	0
TPKRC-10-40-02	8	2	5	1	22.1	265	65	200	<1
TPKRC-10-40-03	7	4	2	1	23.4	175	170	2	3
TPKRC-10-40-04	1	1	0	0	22.3	2085	2085	0	0
TPKRC-10-40-05	2	1	1	0	25.7	2	1	1	0
TPKRC-10-41-01	24	17	7	0	20.4	101	70	31	0
TPKRC-10-41-02	4	3	1	0	30.4	26	13	12	0
TPKRC-10-41-03	6	6	0	0	31.9	26	26	0	0
TPKRC-10-41-04	3	3	0	0	20.8	36	36	0	0
TPKRC-10-41-05	3	3	0	0	17.6	23	23	0	0
TPKRC-10-41-06	7	4	3	0	19.3	92	74	18	0
TPKRC-10-41-07	5	3	2	0	9.8	247	207	41	0
TPKRC-10-42-01	4	3	1	0	15.7	166	165	2	0
TPKRC-10-42-02	4	3	0	1	25.0	13	5	0	8
TPKRC-10-42-03	1	1	0	0	11.9	16	16	0	0
TPKRC-10-42-04	1	1	0	0	8.5	23	23	0	0
TPKRC-10-42-05	4	4	0	0	11.9	10	10	0	0
TPKRC-10-42-06	3	3	0	0	28.5	10	10	0	0
TPKRC-10-42-07	4	4	0	0	19.0	72	72	0	0
TPKRC-10-42-08	4	0	4	0	16.6	19	0	19	0
TPKRC-10-43-01	6	5	0	1	23.9	38	22	0	16
TPKRC-10-43-02	0	0	0	0	12.2	0	0	0	0
TPKRC-10-44-01	42	7	18	17	14.8	822	315	202	306
TPKRC-10-46-01	8	0	6	2	21.5	6	0	5	1
TPKRC-10-46-02	3	3	0	0	22.1	236	236	0	0
TPKRC-10-47-01	0	0	0	0	21.2	0	0	0	0
TPKRC-10-48-01	4	3	1	0	21.4	31	31	<1	0
TPKRC-10-48-02	3	2	1	0	17.0	18	16	1	0
TPKRC-10-48-03	3	1	2	0	19.4	7	1	5	0
TPKRC-10-49-01	0	0	0	0	15.2	0	0	0	0
TPKRC-10-49-02	10	1	5	4	15.1	1975	42	76	1856
TPKRC-10-50-01	12	7	3	2	24.2	70	61	8	1
TPKRC-10-50-02	9	1	5	3	23.4	67	16	41	9
TPKRC-10-51-01	35	2	10	23	17.2	1244	986	80	178
TPKRC-10-52-01	39	11	14	14	21.5	754	564	113	78
TPKRC-10-53-01	20	1	8	11	8.9	325	72	39	214
TPKRC-10-53-02	7	3	2	2	21.7	36	2	<1	33
TPKRC-10-54-01	61	1	23	37	16.2	551	2	165	385
TPKRC-10-54-02	115	5	34	76	18.6	2407	239	471	1697
TPKRC-10-55-01	24	7	13	4	7.8	3938	614	3307	17
TPKRC-10-55-02	93	31	38	24	18.7	2787	1547	1146	93
TPKRC-10-56-01	34	16	12	6	19.1	1544	1492	33	18
TPKRC-10-57-01	68	17	21	30	14.3	1573	975	351	247
TPKRC-10-57-02	15	4	11	0	15.8	330	249	81	0
TPKRC-10-57-03	6	0	4	2	20.7	29	0	16	13
TPKRC-10-57-04	195	4	37	154	38.2	3071	70	137	2865
TPKRC-10-57-05	328	18	121	189	29.0	4443	463	1998	1982

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
TPKRC-10-58-01	36	9	14	13	20.6	543	96	399	49
TPKRC-10-58-02	14	6	7	1	10.3	6552	112	6438	2
TPKRC-10-58-03	107	24	41	42	36.9	1030	360	556	114
TPKRC-10-59-01	32	11	10	11	17.2	456	262	123	72
TPKRC-10-59-02	41	11	15	15	19.4	3415	274	3004	137
TPKRC-10-59-03	36	19	6	11	20.7	1922	1846	35	42
TPKRC-10-59-04	34	4	17	13	22.9	936	56	863	17
TPKRC-10-59-05	32	2	22	8	17.7	163	6	116	41
TPKRC-10-60-01	59	4	26	29	13.4	864	42	447	375
TPKRC-10-60-02	51	6	21	24	19.8	836	30	701	105
TPKRC-10-60-03	30	4	12	14	14.5	287	53	85	149
TPKRC-10-60-04	13	3	4	6	18.7	466	409	45	12
TPKRC-10-60-05	20	3	8	9	18.6	445	323	116	6
TPKRC-10-60-06	2	0	0	2	20.2	2	0	0	2
TPKRC-10-60-07	5	0	5	0	25.0	73	0	73	0
TPKRC-10-61-01	153	8	41	104	23.6	1198	91	354	753
TPKRC-10-62-01	75	12	37	26	29.5	394	79	239	76
TPKRC-10-63-01	99	35	45	19	42.4	3061	175	1071	1816
TPKRC-10-63-02	177	20	85	72	43.5	1596	782	434	380
TPKRC-10-63-03	210	14	71	125	31.6	2689	235	451	2004
TPKRC-10-63-04	245	12	71	162	26.3	3353	333	839	2181
TPKRC-10-64-01	30	1	13	16	14.4	660	6	441	214
TPKRC-10-64-02	22	0	7	15	17.5	217	0	35	182
TPKRC-10-65-01	17	1	7	9	17.5	168	5	83	80
TPKRC-10-66-01	89	14	42	33	16.6	1937	192	700	1044
TPKRC-10-66-02	73	9	30	34	19.6	5079	3488	1444	147
TPKRC-10-67-01	4	0	3	1	2.8	344	0	335	9
TPKRC-10-68-01	24	6	8	10	15.5	231	75	70	86
TPKRC-10-68-02	23	12	8	3	21.2	395	284	99	11
TPKRC-10-69-01	16	9	3	4	16.9	659	617	13	29
TPKRC-10-69-02	19	6	7	6	19.1	480	136	71	272
TPKRC-10-69-03	6	2	3	1	18.5	34	21	13	<1
TPKRC-10-69-04	29	8	11	10	25.5	255	114	102	39
TPKRC-10-69-05	68	17	35	16	32.0	1623	1310	243	70
TPKRC-10-69-06	48	11	25	12	32.8	3974	2975	957	43
TPKRC-10-69-07	14	3	8	3	29.1	198	105	84	10
TPKRC-10-69-08	31	7	14	10	23.0	239	67	121	51
TPKRC-10-70-01	2	0	1	1	19.0	83	0	79	4
TPKRC-10-70-02	27	0	10	17	21.9	5471	0	1767	3704
TPKRC-10-70-03	25	5	15	5	21.8	564	60	430	74
TPKRC-10-70-04	9	6	3	0	24.3	30	22	8	0
TPKRC-10-70-05	32	3	13	16	23.9	648	38	466	144
TPKRC-10-70-06	28	2	16	10	18.5	1165	6	1059	100
TPKRC-10-71-01	14	0	4	10	10.4	408	0	231	177
TPKRC-10-71-02	9	1	2	6	13.3	853	6	30	817
TPKRC-10-71-03	5	1	2	2	22.0	67	9	12	46
TPKRC-10-71-04	11	2	6	3	18.9	619	6	60	554
TPKRC-10-71-05	78	8	26	44	16.4	2168	251	641	1277
TPKRC-10-72-01	40	10	17	13	20.4	1479	127	125	1227
TPKRC-10-72-02	13	1	9	3	25.1	68	8	46	14
TPKRC-10-72-03	21	12	7	2	24.3	143	121	18	4
TPKRC-10-72-04	9	4	4	1	25.1	87	13	17	57
TPKRC-10-72-05	12	0	11	1	18.9	1294	0	1284	10
TPKRC-10-72-06	21	3	8	10	25.7	93	33	30	30
TPKRC-10-72-07	13	6	4	3	18.9	117	71	41	5
TPKRC-10-72-08	32	5	20	7	16.8	260	70	163	27
TPKRC-10-73-01	14	2	4	8	14.8	396	56	99	241
TPKRC-10-73-02	9	4	2	3	17.7	830	367	423	39
TPKRC-10-73-03	34	17	14	3	20.9	650	507	120	23
TPKRC-10-73-04	42	18	17	7	24.8	3325	287	2684	353
TPKRC-10-73-05	89	17	55	17	27.5	1790	220	1432	137
TPKRC-10-74-01	2	0	1	1	21.7	139	0	4	135
TPKRC-10-74-02	2	0	2	0	28.3	8	0	8	0
TPKRC-10-74-03	2	1	1	0	23.9	24	16	8	0
TPKRC-10-74-04	18	6	8	4	31.4	336	51	148	137
TPKRC-10-74-05	36	4	21	11	21.2	738	53	594	91
TPKRC-10-75-01	5	0	1	4	23.4	394	0	27	366
TPKRC-10-75-02	3	1	2	0	22.9	82	82	<1	0
TPKRC-10-75-03	2	1	1	0	19.5	11	1	10	0

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-01-01	Yes	8 C	25	50				1	1		~2500 grains pyrite (25-200µm).
								1	14.2	6	~10,000 grains marcasite (25-50µm).
TPKRC-10-02-01	Yes	5 C	25	25	1	2	1	4			~1000 grains pyrite (25-100µm).
		8 C	25	50	1		1	2			~20 grains arsenopyrite (25-150µm).
		15 C	25	125		1		1			~2500 grains marcasite (25µm).
		13 C	50	75	1			1			
		15 C	75	75	1			1			
								9	26.9	134	
TPKRC-10-02-02	Yes	8 C	25	50	2			2			~2000 grains pyrite (25-200µm).
		13 C	50	75			1	1			~50 grains arsenopyrite (50-200µm).
								3	24.6	22	~500 grains marcasite (25µm).
											~10 grains galena (25-100µm).
											2 grains scheelite (100µm).
TPKRC-10-02-03	Yes	5 C	25	25	1			1			~2500 grains pyrite (25-200µm).
								1	14.7	2	~20 grains arsenopyrite (50-100µm).
											~500 grains marcasite (25µm).
											~10 grains galena (25-100µm).
											1 grain scheelite (100µm).
TPKRC-10-03-01	Yes	5 C	25	25			3	3			~2000 grains pyrite (25-250µm).
		8 C	25	50	1	1		2			~50 grains arsenopyrite (50-300µm).
		10 C	50	50		1		1			
								6	8.0	54	
TPKRC-10-03-02	Yes	3 C	15	15	2	1		3			~2500 grains pyrite (25-750µm).
		5 C	25	25	2			2			~100 grains arsenopyrite (50-750µm).
		8 C	25	50		1		1			5 grains scheelite (100-400µm).
		10 C	50	50	1			1			
		15 C	50	100	1			1			
								8	19.3	51	
TPKRC-10-03-03	Yes	3 C	15	15		4		4			~2500 grains pyrite (25-750µm).
		5 C	25	25	1	4	1	6			SEM checks: 5 of ~1000
		8 C	25	50	3	3		6			arsenopyrite versus loellingite
		10 C	50	50		1		1			candidates = 5 arsenopyrite
		13 C	50	75	1			1			(50-200µm).
		20 C	100	100	1			1			
								19	20.1	135	
TPKRC-10-04-01	Yes	5 C	25	25	1	3		4			~2500 grains pyrite (25-300µm).
		8 C	25	50		1		1			~50 grains arsenopyrite (50-300µm).
		10 C	25	75	1			1			2 grains scheelite (200µm).
		10 C	50	50		1		1			
		13 C	50	75		1		1			
								8	17.1	55	
TPKRC-10-05-01	Yes	3 C	15	15		1		1			~2500 grains pyrite (25-700µm).
		5 C	25	25	1	2		3			~20 grains arsenopyrite (25-400µm).
		8 C	25	50	1	1		2			2 grains scheelite (150µm).
		10 C	50	50		1		1			
								7	10.4	42	
TPKRC-10-05-02	Yes	3 C	15	15	1	1	3	5			~500 grains pyrite (50-100µm).
		5 C	25	25	2		2	4			1% marcasite.
		8 C	25	50	3	5	3	11			
		10 C	25	75	1	1	1	3			
		15 C	25	125		1		1			
		13 C	50	75	2	1		3			
								27	14.0	240	
TPKRC-10-05-03	Yes	3 C	15	15		2	1	3			~1000 grains pyrite (25-100µm).
		5 C	25	25	1	3	1	5			~20 grains arsenopyrite (50-150µm).
		8 C	25	50	3	2	2	7			~2000 grains marcasite (25µm).
		10 C	25	75		1		1			
		10 C	50	50	1	3		4			
		13 C	50	75		1		1			
		15 C	50	100		1		1			
		18 C	75	100		1		1			
		50 M	75	125			1	1			
								24	10.9	683	
TPKRC-10-06-01	Yes	3 C	15	15	2	5	2	9			~2000 grains pyrite (50-100µm).
		5 C	25	25	1	6	3	10			~100 grains arsenopyrite (50-250µm).
		8 C	25	50	3	3	1	7			~2000 grains marcasite (15-25µm).
		10 C	25	75		2		2			
		10 C	50	50		2	2	4			
		13 C	50	75		1	1	1			
		15 C	50	100		1		1			
		50 M	125	250		1		1			
								35	5.6	2895	

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks	
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total				
TPKRC-10-07-01	Yes	3 C	15	15			3	3			~200 grains pyrite (25-100µm). 5 grains arsenopyrite (50-100µm). SEM check: 1 molybdenite candidate = 1 molybdenite (250µm); and 2 of ~15 scheelite candidates = 2 scheelite (75-200µm).	
		5 C	25	25	2	5	5	12				
		8 C	25	50	2	6	11	19				
		10 C	25	75			1	2	3			
		13 C	25	100			1	2	3			
		10 C	50	50	2	1	2	5				
		13 C	50	75	1	1	2	4				
		15 C	50	100				1	1			
		18 C	75	100	1			1				
		25 M	100	125	1			1				
							52	13.2	760			
TPKRC-10-07-02	Yes	3 C	15	15	2	2	2	6			~200 grains pyrite (25-100µm). 2 grains arsenopyrite (100µm). ~10 grains scheelite (75µm).	
		5 C	25	25	2	3	3	8				
		8 C	25	50	3	2	3	8				
		10 C	25	75	1	1		2				
		10 C	50	50	1		1	2				
		13 C	50	75	2	1	4	7				
		15 C	50	100		2		2				
		25 M	50	125	1			1				
		15 C	75	75		1		1				
		18 C	75	100		1		1				
							38	14.1	612			
TPKRC-10-07-03	Yes	3 C	15	15	2		2	4			~2500 grains pyrite (25-200µm). ~25 grains arsenopyrite (75-250µm).	
		5 C	25	25	2		1	3				
		8 C	25	50	2	2	2	6				
		10 C	25	75		2		2				
		10 C	50	50	1		3	4				
		13 C	50	75		1	2	3				
		15 C	50	100		1		1				
		18 C	50	125			1	1				
		15 C	75	75			1	1				
		20 C	75	125			1	1				
		50 M	75	125			1	1				
		100 M	125	200		1		1				
							28	7.8	3872			
TPKRC-10-08-01	Yes	3 C	15	15	1		1	2			~5000 grains pyrite (25-500µm). ~10,000 grains marcasite (25µm).	
		5 C	25	25	1	1	1	3				
		8 C	25	50		2		2				
		10 C	50	50		2		2				
		13 C	50	75			1	1				
							10	12.4	81			
TPKRC-10-09-01	Yes	3 C	15	15	1			1			~1500 grains pyrite (25-150µm). ~20 grains arsenopyrite (75-500µm). ~1000 grains marcasite (15-25µm).	
		5 C	25	25			2	2				
		8 C	25	50	1	1	4	6				
		10 C	25	75		2	1	3				
		15 C	50	100		1		1				
							13	6.7	263			
TPKRC-10-10-01	Yes	3 C	15	15		1		1			~500 grains pyrite (25-500µm). 5 grains arsenopyrite (75-200µm). 2 grains scheelite (75-100µm).	
		5 C	25	25		2		2				
		8 C	25	50			2	2				
		25 M	50	75			1	1				
							6	5.7	167			
TPKRC-10-10-02	Yes	5 C	25	25		1		1			~500 grains pyrite (50-500µm). ~500 grains marcasite (25µm). 2 grains scheelite (100µm).	
		8 C	25	50		1		1				
		10 C	50	50	1		1	2				
		13 C	50	75	1			1				
							5	8.2	105			
TPKRC-10-11-01	Yes	8 C	25	50			1	1			~500 grains pyrite (25-500µm). ~20 grains arsenopyrite (50-200µm). ~200 grains marcasite (25µm). 1 grain galena (100µm).	
		15 C	25	125	1			1				
		10 C	50	50				1				
		13 C	50	75				1				
							4	6.8	189			
TPKRC-10-11-02	Yes	5 C	25	25	1	1		2			0.5% pyrite. ~200 grains arsenopyrite (75-100µm). ~200 grains marcasite (25µm). ~10 grains galena (50-150µm).	
		8 C	25	50		2	1	3				
		13 C	50	75			1	1				
		15 C	50	100		1		1				
							7	15.0	87			
TPKRC-10-11-03	Yes	3 C	15	15		1	2	3			0.5% pyrite. ~250 grains arsenopyrite (75-1000µm). ~1000 grains marcasite (15-25µm). ~30 grains galena (75-250µm).	
		5 C	25	25	3	2	3	8				
		8 C	25	50	2	1		3				
		10 C	50	50	2	1		3				
		50 M	125	225		1		1				
							18	12.2	1026			

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks	
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total				
TPKRC-10-11-04	Yes	3 C	15	15				1	1		~5000 grains pyrite (25-500µm). ~100 grains arsenopyrite (50-500µm). ~2000 grains marcasite (15-50µm). 5 grains galena (50-100µm).	
		5 C	25	25				3	3			
		8 C	25	50		1			1	2		
		10 C	25	75					1	1		
		13 C	50	75				1	1	2		
		15 C	75	75		1	1			2		
		18 C	75	100				1	1			
								12	12.8	271		
TPKRC-10-12-01	Yes	5 C	25	25				2	2		~400 grains pyrite (25-500µm). ~10 grains arsenopyrite (75-400µm).	
		8 C	25	50				2	2			
		10 C	50	50		2			1	1		
		50 M	50	125		1			1	1		
		75 M	100	175		1			1	1		
								7	9.4	1480		
TPKRC-10-13-01	Yes	5 C	25	25				2	2		1% pyrite. ~250 grains arsenopyrite (75-1000µm). ~10 grains galena (50-200µm). 2 grains scheelite (100µm).	
		10 C	50	50		1			1	1		
								3	10.8	22		
TPKRC-10-13-02	Yes	5 C	25	25				2	2		0.5% pyrite. ~200 grains arsenopyrite (50-2000µm). ~50 grains galena (50µm).	
		10 C	50	50		1	2		1	1		
								3	8.0	30		
TPKRC-10-14-01	Yes	5 C	25	25				3	3		~2500 grains pyrite (25-1000µm). ~100 grains arsenopyrite (50-250µm).	
		8 C	25	50		3			1	1		
		50 M	50	100		1	2		1	3		
								7	16.7	145		
TPKRC-10-15-01	Yes	3 C	15	15				1	2		~1500 grains pyrite (25-750µm). ~50 grains arsenopyrite (75-1000µm). ~2000 grains marcasite (15-25µm). 5 grains scheelite (75-200µm).	
		5 C	25	25				1	1			
		8 C	25	50		1			1	1		
		10 C	25	75				1	1	1		
								5	13.5	23		
TPKRC-10-15-02	Yes	3 C	15	15				1	1		~2000 grains pyrite (25-750µm). ~50 grains arsenopyrite (50-500µm). ~500 grains marcasite (25µm). ~20 grains galena (25-300µm). 2 grains scheelite (100µm).	
		5 C	25	25		1	1		1	1		
								2	20.8	1		
TPKRC-10-16-01	Yes	3 C	15	15				2	3		~1000 grains pyrite (25-1500µm). ~100 grains arsenopyrite (75-1500µm). ~1500 grains marcasite (15-25µm).	
		8 C	25	50				1	1			
		10 C	50	50		1	1		1	1		
								5	30.5	9		
TPKRC-10-16-02	Yes	NO VISIBLE GOLD									~1500 grains pyrite (25-200µm). ~100 grains arsenopyrite (50-200µm). ~1000 grains marcasite (15-25µm).	
TPKRC-10-16-03	Yes	NO VISIBLE GOLD									~1000 grains pyrite (25-250µm). 1 grain arsenopyrite (250µm). ~500 grains marcasite (25-250µm). 2 grains scheelite (100µm).	
TPKRC-10-17-01	Yes	5 C	25	25				3	4		2% pyrite. ~50 grains arsenopyrite (75-100µm). ~2500 grains marcasite (15-25Rm). 3 grains scheelite (250µm).	
		8 C	25	50				1	1			
		10 C	50	50		1	1		2	2		
								8	18.4	35		
TPKRC-10-18-01	Yes	3 C	15	15				3	7		~2500 grains pyrite (25-100µm). ~50 grains arsenopyrite (50-150µm). ~50,000 grains marcasite (15-25µm). ~10 grains scheelite (75-200µm).	
		5 C	25	25				1	5			
		8 C	25	50				1	4			
		10 C	25	75				2	2			
		10 C	50	50		2			1	3		
		22 C	75	150				1	1	2		
		100 M	175	175		1		1	1			
								39	13.5	1983		
TPKRC-10-18-02	Yes	3 C	15	15				1	1		~2000 grains pyrite (25-250µm). ~100 grains arsenopyrite (50-500µm). ~25,000 grains marcasite (15-25µm). 3 grains scheelite (100-400µm).	
		5 C	25	25				3	1			
		8 C	25	50				2	1			
		10 C	25	75				1	1			
		10 C	50	50		1			1	1		
		13 C	50	75				2	1	3		
		18 C	75	100				1	1	1		
		22 C	75	150				1	1	1		
								21	17.9	293		

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-19-01	Yes	3 C	15	15	1	1	4	6	~1500 grains pyrite (25-1000µm). ~25 grains arsenopyrite (25-500µm).		
		5 C	25	25	4	5	4	13			
		8 C	25	50	1	2	2	5			
		10 C	25	75			2	2			
		10 C	50	50	2		3	5			
		13 C	50	75		1	1	2			
		15 C	75	75	1			1			
		18 C	75	100		2		2			
						36	11.2	492			
TPKRC-10-20-01	Yes	NO VISIBLE GOLD								~1500 grains pyrite (25-1500µm). 1 grain arsenopyrite (200µm). ~500 grains marcasite (25-25µm). ~100 grains galena (50-250µm). ~20 grains scheelite (75-500µm).	
TPKRC-10-21-01	Yes	5 C	25	25			1	1	~1500 grains pyrite (25-1500µm). ~150 grains arsenopyrite (50-300µm). ~200 grains marcasite (15-75µm).		
		8 C	25	50	2	2		4			
		13 C	50	75			1	1			
		100 M	125	150		1		1			
						7	19.6	760			
TPKRC-10-21-02	Yes	3 C	15	15		1	1	2	~1000 grains pyrite (50-1500µm). ~100 grains arsenopyrite (75-750µm). ~10,000 grains marcasite (15-25µm).		
		5 C	25	25	3	1	1	5			
		8 C	25	50	1			1			
		10 C	25	75		1	1	2			
		10 C	50	50	2	3	1	6			
		13 C	50	75	1			1			
		15 C	50	100	1			1			
		18 C	75	100		1		1			
		50 M	75	125		1		1			
		100 M	100	175		1		1			
						21	22.8	952			
TPKRC-10-23-01	Yes	3 C	15	15	2	2	16	20	~250 grains pyrite (50-250µm). 1 grain arsenopyrite (100µm). ~200 grains marcasite (15-25µm). 1 grain molybdenite (600-1000µm).		
		5 C	25	25	4	16	34	54			
		8 C	25	50	5	11	18	34			
		10 C	25	75	8	7	2	17			
		25 M	25	100		1		1			
		15 C	25	125			2	2			
		10 C	50	50	6	7	8	21			
		13 C	50	75	8	8	13	29			
		15 C	50	100	2	1	3	6			
		50 M	50	125		1	2	3			
		15 C	75	75	3	6		9			
		18 C	75	100		5		5			
		20 C	75	125			1	1			
		20 C	75	125	1	1		2			
		20 C	75	125		1		1			
		22 C	75	150		1		1			
		20 C	100	100	1			1			
		100 M	100	100			1	1			
		22 C	100	125		1		1			
		50 M	100	125		1		1			
		75 M	100	125		1		1			
		100 M	100	125		1	1	2			
		75 M	100	200			1	1			
25 C	125	125		1		1					
36 C	125	250			1	1					
29 C	150	150		1		1					
75 M	200	225		1		1					
42 C	200	250		1		1					
						219	15.2	11122			
TPKRC-10-24-01	Yes	5 C	25	25	1	2	2	5	5% pyrite. ~500 grains arsenopyrite (75-1000µm). ~500 grains marcasite (15-25µm).		
		30 C	254	50		2	1	3			
		10 C	25	75	1			1			
		10 C	50	50	1	1	1	3			
		15 C	50	100		1		1			
		18 C	75	100	1			1			
		27 C	100	175		1		1			
						15	28.2	772			
TPKRC-10-24-02	Yes	3 C	15	15	2		3	5	2% pyrite. ~300 grains arsenopyrite (100-100µm). ~1000 grains marcasite (125µm).		
		5 C	25	25		2	7	9			
		8 C	25	50	1	2	2	5			
		10 C	25	75		1		1			
		10 C	50	50	2	1		3			
		13 C	50	75	3	1		4			
		50 M	75	100	1		1	2			
		50 M	100	125	1			1			
						30	23.0	583			

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-24-03	Yes	5 C	25	25			2	2			~2000 grains pyrite (50-2000µm). ~500 grains arsenopyrite (100-2000µm). ~1500 grains marcasite (25µm).
		8 C	25	50				1	1		
		10 C	50	50			1	1	1		
		13 C	50	75			1	1	1		
		15 C	50	100		1			1	1	
		15 C	75	75		1	1	1	3		
		100 M	100	100		1			1	1	
							10	17.7	608		
TPKRC-10-25-01	Yes	3 C	15	15				3	3		~50 grains pyrite (25-100µm). ~100 grains marcasite (25µm).
		5 C	25	25			2	2	4		
		8 C	25	50			1	2	3		
		10 C	25	75			2	2	2		
		10 C	50	50		1	2		3		
		13 C	50	75				1	1		
		13 C	25	100		1			1	1	
							17	19.9	104		
TPKRC-10-25-02	Yes	3 C	15	15				1	1		~300 grains pyrite (25-1000µm). ~20 grains arsenopyrite (75-750µm). ~50 grains marcasite (25µm).
		5 C	25	25		1	2	3	6		
		8 C	25	50			1		1		
		10 C	50	50				1	1		
		13 C	50	75			1		1		
							10	28.9	28		
TPKRC-10-25-03	Yes	3 C	15	15				2	2		5% pyrite. ~500 grains arsenopyrite (75-1000µm). ~500 grains marcasite (15-25µm).
		4 C	15	25			4	4	4		
		8 C	25	50			1		1		
		10 C	50	50				1	1		
		13 C	50	75			2	1	3		
		15 C	50	100		1	1	1	3		
		50 M	75	125			1		1	1	
							15	22.8	313		
TPKRC-10-25-04	Yes	5 C	25	25		1	2	1	4		0.5% pyrite. ~500 grains arsenopyrite (50-1000µm). ~200 grains marcasite (25µm).
		18 C	25	150		1			1		
		10 C	50	50		1		1	2		
		25 M	75	125		1			1		
							8	19.6	172		
TPKRC-10-26-01	Yes	3 C	15	15				2	4	6	1% pyrite. ~200 grains arsenopyrite (100-2000µm). ~200 grains marcasite (25µm).
		5 C	25	25		3	5	7	15		
		8 C	25	50			3	3	6		
		15 C	25	125			1		1		
		10 C	50	50		1	2	1	4		
		13 C	50	75		2	1	2	5		
		15 C	75	75				1	1		
		18 C	75	100		2	1	1	4		
		29 C	100	200			1		1	1	
									43	12.2	
TPKRC-10-27-01	Yes	3 C	15	15		1	2	6	9		~200 grains pyrite (25-1000µm). 1 grain arsenopyrite (75µm). ~50 grains marcasite (25µm).
		5 C	25	25		5	5	8	18		
		8 C	25	50		1		3	4		
		10 C	25	75			2		2		
		13 C	25	100		1			1		
		10 C	50	50		1		2	3		
		13 C	50	75		3	2	2	7		
		15 C	50	100		1		1	2		
		15 C	75	75		1		1	1		
		18 C	75	100		1		1	2		
		50 M	75	125		1			1	1	
							50	19.8	629		
TPKRC-10-27-02	Yes	3 C	15	15		1	6	11	18		~60 grains pyrite (25-750µm). ~350 grains arsenopyrite (25µm). ~50 grains marcasite (50-500µm).
		5 C	25	25		1	8	18	27		
		8 C	25	50			6	8	14		
		10 C	25	75			1	1	2		
		10 C	50	50		1	3	7	11		
		13 C	50	75		1	5	3	9		
		15 C	50	100		1	1		2		
		15 C	75	75		1		1	2		
		18 C	75	100				3	3		
		50 M	75	125			2	1	3		
		100 M	100	100		1	1		2		
		100 M	100	125				1	1		
		100 M	150	200			1		1	1	
							95	21.1	3415		

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-27-03	Yes	3 C	15	15				3	3		~300 grains pyrite (25-1000µm). ~20 grains arsenopyrite (50-200µm).
		5 C	25	25			2	3	5		
		8 C	25	50			1	2	3		
		10 C	25	75	1			1	2		
		10 C	50	50			2	1	3		
		13 C	50	75			2		2		
		18 C	50	125	1				1		
		18 C	75	100		1			1		
		100 M	125	200	1				1		
	200 M	300	350	1			1				
							22	25.1	7265		
TPKRC-10-27-04	Yes	3 C	15	15	1	2		4	7		~1000 gains pyrite (25-1000µm). ~50 grains arsenopyrite (50-200µm).
		5 C	25	25	3	3		2	8		
		8 C	25	50	1			2	3		
		10 C	50	50				2	2		
		13 C	50	75	1			3	4		
		15 C	50	100	2			1	3		
		15 C	75	75	1				1		
		18 C	75	100	1			1	2		
		50 M	100	150		1			1		
							31	20.0	640		
TPKRC-10-27-05	Yes	5 C	25	25	1			1	2		~2500 gains pyrite (25-1000µm). ~1000 grains arsenopyrite (50-250µm). ~500 grains marcasite (15-25@m). 4 grains galena (125µm).
		8 C	25	50	1				1		
		10 C	50	50	1	1			2		
		13 C	50	75		1			1		
		15 C	75	75	1			1	2		
		18 C	75	100		1			1		
		31 C	125	200					1		
		34 C	150	200		1			1		
							11	28.1	610		
TPKRC-10-28-01	Yes	3 C	15	15	1			2	3		~500 grains pyrite (25-500µm). ~500 grains marcasite (25µm).
		5 C	25	25	1	1		3	5		
		8 C	25	50		1		2	3		
		10 C	25	75				1	1		
		13 C	50	75		1			1		
							13	15.1	63		
TPKRC-10-28-02	Yes	3 C	15	15		1			1		~500 grains pyrite (25-500µm). ~20 grains marcasite (25µm).
		8 C	25	50	1	1		1	3		
		13 C	50	75				1	1		
		50 M	100	150	1				1		
							6	18.4	352		
TPKRC-10-28-03	Yes	8 C	25	50				1	1		~4000 grains pyrite (25-1000µm). ~50 grains marcasite (25µm). ~300 grains galena (25-50µm).
		10 C	50	50	1	3			4		
		13 C	50	75	2	1			3		
							8	19.9	99		
TPKRC-10-28-04	Yes	8 C	25	50	1	1			2		0.5% pyrite. ~50 grains arsenopyrite (50-200µm). ~200 gains marcasite (25µm). ~1000 grains galena (25-100µm).
									2	33.4	
TPKRC-10-28-05	Yes	5 C	25	25	2	2			4		5% pyrite. ~200 gains arsenopyrite (50-200µm). ~100 grains marcasite (25µm). ~500 grains galena (25-75µm).
		8 C	25	50	1				1		
		25 M	25	125	1				1		
		10 C	50	50	2				2		
							8	20.3	80		
TPKRC-10-29-01	Yes	3 C	15	15	1	1		1	3		5% pyrite. 2% arsenopyrite (65,000 gr). ~2000 grains marcasite (25µm).
		5 C	25	25	7	3		2	12		
		25 M	25	100					1	1	
		8 C	25	50	2	1		4	7		
		10 C	25	75		1			1		
		10 C	50	50	2	2		3	7		
		13 C	50	75		1			1		
		15 C	50	100		1			1		
		18 C	50	125		1			1		
		18 C	75	100		1			1		
		22 C	75	150	1				1		
		100 M	100	125		1			1		
							37	32.3	551		
TPKRC-10-30-01	Yes	3 C	15	15	1				1		~2000 grains pyrite (25-1500µm). ~1000 grains arsenopyrite (50-1000µm). ~1000 grains marcasite (15-25µm). 5 grains galena (75-200µm). 1 grain scheelite (250µm). 1 grain gold + arsenopyrite; photomicrographed.
		5 C	25	25	1	3		1	5		
		8 C	25	50		2			2		
		10 C	50	50	1	1		3	5		
		13 C	50	75		1		1	2		
		15 C	75	75		1			1		
		20 C	75	125	1				1		
							17	26.6	156		

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-30-02	Yes	3 C	15	15	2			2			2% pyrite. ~1500 grains arsenopyrite (50-100µm). 7 grains galena (75-125µm). ~10 grains scheelite (75-250µm). SEM check: 1 molybdenite candidate = 1 molybdenite (300µm); and 2 of 7 galena versus molybdenite candidates = 2 galena (75-125µm).
		5 C	25	25			1	1			
		8 C	25	50	1			1			
		10 C	25	75		1		1			
		25 M	25	125	1			1			
		13 C	50	75		1		1			
								7	24.0	72	
TPKRC-10-30-03	Yes	8 C	25	50		1	1	2			5% pyrite. ~250 grains arsenopyrite (75-500µm). 3 grains galena (75-150µm). 2 grains scheelite (150µm).
		10 C	50	50		2		2			
		13 C	50	75	1			1			
								5	24.4	38	
TPKRC-10-31-01	Yes	5 C	25	25	1			1			~1000 grains pyrite (25-500µm). ~100 grains arsenopyrite (75-500µm). ~300 grains marcasite (125µm).
		8 C	25	50			1	1			
		50 M	75	125	1			1			
		50 M	100	125		1		1			
								4	16.3	528	
TPKRC-10-31-02	Yes	3 C	15	15			1	1			~2000 grains pyrite (25-1000µm). ~100 grains arsenopyrite (50-500µm). ~500 grains marcasite (25µm). 6 grains scheelite (150-1000µm).
		5 C	25	25		1	2	3			
		8 C	25	50		2		2			
		15 C	75	75		1		1			
								7	27.6	32	
TPKRC-10-31-03	Yes	5 C	25	25	1			1			5% pyrite. ~100 grains arsenopyrite (50-500µm). 3 grains molybdenite (150-200µm). 2 grains scheelite (150µm).
								1	24.1	1	
TPKRC-10-31-04	Yes	3 C	15	15	1	1	3	5			5% pyrite. ~2000 grains arsenopyrite (50-1500µm). 1 grain galena (400µm). 1 grain scheelite (150µm).
		5 C	25	25		3	3	6			
		8 C	25	50	1	3	3	7			
		10 C	50	50	1		1	2			
								20	25.4	44	
TPKRC-10-31-05	Yes	5 C	25	25	2			2			10% pyrite. ~5000 grains arsenopyrite (50-1500µm). ~20 grains galena (50-200µm). ~10 grains scheelite (75-250µm). 5 grains molybdenite (75-200µm).
		8 C	25	50		1	1	2			
		10 C	50	50		1		1			
		13 C	50	75			1	1			
								6	30.6	25	
TPKRC-10-31-06	Yes	3 C	15	15			2	2			5% pyrite. ~2000 grains arsenopyrite (50-1500µm). ~500 grains marcasite (25µm). 6 grains galena (100-200µm). 5 grains scheelite (200-1000µm). 1 grain molybdenite (200µm).
		5 C	25	25		3		3			
		8 C	25	50		1		1			
		10 C	25	75	1			1			
		10 C	50	50		1	1	2			
		13 C	50	75		1		1			
		15 C	75	75			1	1			
		225 M	225	650	1			1			
								12	20.1	16157	
TPKRC-10-32-01	Yes	3 C	15	15	1			1			~1000 grains pyrite (25-1000µm). ~25 grains arsenopyrite (75-500µm). ~2000 grains marcasite (15-25µm). 2 grains scheelite (150µm).
		8 C	25	50		2		2			
								3	22.3	8	
TPKRC-10-32-02	Yes	3 C	15	15			1	1			1% pyrite. ~20 grains arsenopyrite (75-250µm). ~1000 grains marcasite (25µm). 1 grain scheelite (100µm).
		5 C	25	25	4	3	1	8			
		8 C	25	50	2	3		5			
		25 M	25	100	1			1			
		13 C	50	75	2	1		3			
		15 C	50	100	1			1			
								19	22.3	139	
TPKRC-10-32-03	Yes	5 C	25	25		2		2			0.5% pyrite. 1 grain arsenopyrite (500µm). ~50 grains galena (50-150µm).
		8 C	25	50	1			1			
		10 C	50	50	1			1			
								4	29.0	11	
TPKRC-10-32-04	Yes	3 C	15	15	1			1			1% pyrite. ~50 grains arsenopyrite (75-500µm). ~500 grains marcasite (15-25µm). 3 grains galena (75-150µm). 5 grains scheelite (125-250µm).
		5 C	25	25	1			1			
								2	25.7	1	
TPKRC-10-33-01	Yes	3 C	15	15	1			1			~1000 grains pyrite (25-1000µm). 3 grains arsenopyrite (250µm). ~1000 grains marcasite (15-25µm).
		5 C	25	25	1			1			
		10 C	50	50	1		1	2			
		13 C	50	75		1		1			
								5	26.3	30	

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-33-02	Yes	3 C	15	15	1	2		3			5% pyrite. 2 grains arsenopyrite (150µm). ~2500 grains marcasite (15-25µm).
								3	33.5	<1	
TPKRC-10-33-03	Yes	8 C	25	50	1			1			5% pyrite. 3 grains arsenopyrite (75-150µm). ~3000 grains marcasite (15-25µm). 1 grain galena (75µm).
								1	24.8	3	
TPKRC-10-33-04	Yes	3 C 20 C	15 75	15 125	1 1			1 1			5% pyrite. ~1000 grains marcasite (15-25µm).
								2	21.4	70	
TPKRC-10-33-05	Yes	NO VISIBLE GOLD									5% pyrite. ~10 grains arsenopyrite (75-250µm). ~500 grains marcasite (15-25µm). 5 grains galena (75-200µm). ~10 grains scheelite (100-300µm). 1 grain molybdenite (200µm).
TPKRC-10-34-01	Yes	3 C 5 C 8 C 10 C 13 C 10 C 13 C 18 C 50 M 15 C 18 C 75 M 50 M 50 M 125 M	15 25 25 50 75 100 50 50 125 75 75 100 100 150 125	15 25 50 75 100 50 75 175 75 100 400 100 150 150		2 3 2 1 1 2 1 1 1 2 1 1 1 1		3 8 1 2 3 3 1 1 2 1 1 1 1 1	5 20 5 1 2 7 8 1 4 2 1 1 1 1		2% pyrite. ~60,000 grains arsenopyrite (50-1000µm). ~200 grains marcasite (25µm).
								60	20.3	3724	
TPKRC-10-35-01	Yes	3 C 10 C	15 25	15 75		1		1 1			2% pyrite. ~150 grains arsenopyrite (75-1000µm). ~5000 grains marcasite (15-25µm). 5 grains scheelite (150-300µm). 2 grains molybdenite (500µm).
								2	24.1	8	
TPKRC-10-35-02	Yes	5 C 8 C	25 25	25 50	2 1		1	2 2			1% pyrite. ~175 grains arsenopyrite (50-250µm). ~1000 grains marcasite (15-25µm). 2 grains galena (100µm). 3 grains scheelite (150µm). 1 grain molybdenite (150µm).
								4	28.0	8	
TPKRC-10-36-01	Yes	3 C 5 C 8 C 10 C 10 C 13 C	15 25 25 50 75 50	15 25 50 75 50 75	1 1 1 1 1 1		1	2 3 1 1 1 2			0.5% pyrite. ~100 grains arsenopyrite (50-400µm). 2 grains galena (100µm). 2 grains scheelite (75µm). 1 grain molybdenite (100µm).
								10	14.0	93	
TPKRC-10-37-01	Yes	8 C 10 C	25 50	50 50	2 1			2 1			2% pyrite. ~150 grains arsenopyrite (50-500µm). 1 grain galena (75µm). 4 grains scheelite (75µm).
								3	24.7	14	
TPKRC-10-37-02	Yes	3 C 10 C	15 50	15 50		1		2 1			2% pyrite. ~75 grains arsenopyrite (75-500µm). ~200 grains marcasite (25µm). 5 grains galena (100-400µm). 4 grains scheelite (100-200µm).
								3	22.8	9	
TPKRC-10-37-03	Yes	3 C 5 C 10 C 75 M	15 25 25 75	15 25 75 100	3 1 1 1		3	3 5 1 1			1% pyrite. ~100 grains arsenopyrite (50-400µm). ~500 grains marcasite (25-50µm). 2 grains scheelite (75µm).
								10	17.8	260	
TPKRC-10-38-01	Yes	5 C 8 C 10 C 20 C	25 25 50 75	25 50 50 125		3 1 1 1		4 1 2 1			~2000 grains pyrite (15-400µm). ~50 grains arsenopyrite (50-300µm). 3 grains scheelite (75µm).
								12	13.5	164	

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks	
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total				
TPKRC-10-39-01	Yes	3 C	15	15	2	1	3	6			~500 grains pyrite (15-500µm). 2 grains arsenopyrite (150µm). ~50 grains marcasite (25µm). 2 grains scheelite (100µm).	
		5 C	25	25	4	9	13					
		8 C	25	50	3	2	1	6				
		10 C	50	50	1			1				
		13 C	50	75	2	1		3				
		75 M	100	150		1		1				
		50 M	125	200		1		1				
		50 M	150	200	1			1				
							32	15.6	2072			
TPKRC-10-40-01	Yes	3 C	15	15		1		1			~1000 grains pyrite (15-1000µm). 2 grains arsenopyrite (200µm). 3 grains scheelite (200µm).	
		5 C	25	25	1			1				
		10 C	50	50	1			1				
		13 C	50	75	1			1				
		50 M	125	150	1			1				
							5	11.8	651			
TPKRC-10-40-02	Yes	3 C	15	15			1	1			~800 grains pyrite (15-1000µm). 3 grains arsenopyrite (75-300µm). 2 grains scheelite (100µm).	
		5 C	25	25		1		1				
		8 C	25	50		1		1				
		25 M	25	125	1			1				
		10 C	50	50		1		1				
		13 C	50	75	1	1		2				
		50 M	75	125		1		1				
							8	22.1	265			
TPKRC-10-40-03	Yes	5 C	25	25		2		2			1% pyrite (15-1500µm). ~75 grains arsenopyrite (50-500µm). 4 grains scheelite (100µm). 1 grain molybdenite (75µm).	
		8 C	25	50	1		1	2				
		13 C	50	75	1			1				
		15 C	50	100	1			1				
		50 M	75	100	1			1				
							7	23.4	175			
TPKRC-10-40-04	Yes	75 M	225	350	1			1			2% pyrite. ~100 grains arsenopyrite (50-400µm). 2 grains scheelite (100µm). 2 grains molybdenite (150-400µm).	
												1
TPKRC-10-40-05	Yes	5 C	25	25	1	1		2			5% pyrite. ~150 gains arsenopyrite (50-400µm). 4 grains scheelite (100µm). ~20 grains molybdenite (50-200µm).	
												2
TPKRC-10-41-01	Yes	3 C	15	15	4	2		6			1% pyrite. 9 grains arsenopyrite (75-500µm). 2 grains scheelite (100µm). 2 molybdenite (75-1000µm).	
		5 C	25	25	8	2		10				
		8 C	25	50	1			1				
		10 C	25	75		1		1				
		10 C	50	50	2	2		4				
		13 C	50	75	2			2				
							24	20.4	101			
TPKRC-10-41-02	Yes	3 C	15	15	1			1			1% pyrite. 2 grains arsenopyrite (500µm).	
		5 C	25	25	1			1				
		13 C	50	75	1	1		2				
							4	30.4	26			
TPKRC-10-41-03	Yes	5 C	25	25	2			2			0.5% pyrite. 3 gains arsenopyrite (200µm). ~1000 grains marcasite (15-50µm). 4 grains molybdenite (75-200µm).	
		10 C	50	50	4			4				
							6	31.9	26			
TPKRC-10-41-04	Yes	10 C	50	50	2			2			0.5% pyrite. 1 grain arsenopyrite (100µm). ~1000 grains marcasite (15-50µm). 1 grain scheelite (100µm). 1 grain molybdenite (150µm).	
		13 C	50	75	1			1				
							3	20.8	36			
TPKRC-10-41-05	Yes	5 C	25	25	1			1			0.5% pyrite. 4 grains arsenopyrite (50-500µm). ~1500 grains marcasite (15-50µm). 2 grains galena (200µm).	
		10 C	50	50	2			2				
							3	17.6	23			
TPKRC-10-41-06	Yes	5 C	25	25	1			1			1% pyrite. 10 grains arsenopyrite (50-1000µm). ~1500 grains marcasite (15-50µm). 2 grains molybdenite (100µm).	
		8 C	25	50		2		2				
		10 C	25	75		1		1				
		10 C	50	50	2			2				
		18 C	50	125	1			1				
							7	19.3	92			

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-41-07	Yes	5 C 13 C 15 C 18 C	25 50 50 75	25 75 100 100		1 1		1 2 1 1			2% pyrite. ~50 grains arsenopyrite (50-400µm). 5 grains galena (75-200µm). 2 grains scheelite (100µm). ~15 grains molybdenite (75-200µm).
TPKRC-10-42-01	Yes	5 C 10 C 25 M	25 50 100	25 50 125		1 1 1		2 1 1	15.7	166	0.5% pyrite. 7 grains arsenopyrite (75-200µm). 1 grain scheelite (100µm). 2 grains molybdenite (75-200µm).
TPKRC-10-42-02	Yes	5 C 8 C 10 C	25 25 50	25 50 50		2 1	1	2 1 1	25.0	13	~3000 grains pyrite (25-1000µm). 3 grains arsenopyrite (100-250µm). ~500 grains marcasite (15-25µm). 2 grains galena (50-75µm). 2 grains scheelite (250µm). ~25 brass metal turnings (25-50µm; contamination).
TPKRC-10-42-03	Yes	10 C	50	50		1		1 1	11.9	16	~2500 grains pyrite (25-1000µm). 2 grains arsenopyrite (100µm). ~500 grains marcasite (15-25µm). ~10 brass metal turnings (25µm; contamination).
TPKRC-10-42-04	Yes	10 C	50	50		1		1 1	8.5	23	~3000 grains pyrite (25-1000µm). ~200 grains marcasite (15-25µm). 1 grain molybdenite (100µm). 1 grain scheelite (150µm). ~20 brass metal turnings (25µm; contamination).
TPKRC-10-42-05	Yes	3 C 5 C 8 C	15 25 25	15 25 50		2 1 1		2 1 1	11.9	10	~1500 grains pyrite (25-1000µm). 1 grain arsenopyrite (100µm). 5 grains scheelite (100-300µm). ~20 grains molybdenite (100-1000µm). ~250 brass metal turnings (25-50µm; contamination).
TPKRC-10-42-06	Yes	5 C 8 C 10 C	25 25 50	25 50 50		1 1 1		1 1 1	28.5	10	2% pyrite. 1 grain arsenopyrite (300µm). 1 grain scheelite (200µm). ~10 brass metal turnings (25µm; contamination).
TPKRC-10-42-07	Yes	8 C 10 C 18 C	25 25 75	50 75 100		2 1 1		2 1 1	19.0	72	~2000 grains pyrite (25-1500µm). ~100 grains scheelite (75-250µm).
TPKRC-10-42-08	Yes	5 C 8 C 10 C	25 25 50	25 50 50		2 1 1		2 1 1	16.6	19	~1500 grains pyrite (25-1000µm). 1 grain arsenopyrite (300µm). ~15 grains scheelite (50-150µm). 2 brass (25µm; contamination).
TPKRC-10-43-01	Yes	5 C 8 C 13 C	25 25 50	25 50 75		3 1 1	1	3 1 2	23.9	38	~250 grains pyrite (25-100µm). 1 grain arsenopyrite (100µm). ~10 grains scheelite (75-150µm). ~10 brass (25µm; contamination).
TPKRC-10-43-02	Yes	NO VISIBLE GOLD									~500 grains pyrite (25-100µm). ~10 grains arsenopyrite (75-150µm). ~10 grains scheelite (75-150µm).
TPKRC-10-44-01	Yes	3 C 5 C 8 C 10 C 13 C 18 C 10 C 13 C 15 C 18 C 20 C 25 C	15 25 25 50 75 25 50 75 50 75 100 150	15 25 50 75 100 150 50 75 100 125 150		1 4 2 3 1 1 1 1 1 1 1 1	3 4 8 3 1 1 1 1 1 1 1 1	4 11 11 5 1 1 2 2 1 1 1 1		822	~500 grains pyrite (25-1000µm). ~15 grains arsenopyrite (75-500µm). ~10 grains scheelite (25-150µm). 5 grains molybdenite (75-750µm).
TPKRC-10-46-01	Yes	3 C 5 C	15 25	15 25		2 4	1 1	3 5	21.5	6	~3500 grains pyrite (25-2000µm). ~750 grains arsenopyrite (50-500µm). 5 grains scheelite (75-150µm). 1 grain molybdenite (500µm).

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-46-02	Yes	8 C	25	50	1			1			~3500 grains pyrite (25-2000µm).
		10 C	25	75	1			1			~1000 grains arsenopyrite (25-1000µm).
		25 M	75	250	1			1			1 grain scheelite (150µm).
								3	22.1	236	1 grain molybdenite (250µm).
TPKRC-10-47-01	Yes	NO VISIBLE GOLD									~3500 grains pyrite (25-2000µm).
											~10 grains arsenopyrite (75-500µm).
											~500 grains marcasite (25-50µm).
											5 grains scheelite (75-800µm).
											2 grains molybdenite (400-500µm).
											1 grain galena (75µm).
TPKRC-10-48-01	Yes	3 C	15	15	1	1		2			~1000 grains pyrite (25-500µm).
		5 C	25	25	1			1			2 grains arsenopyrite (100µm).
		15 C	75	75	1			1			~250 grains marcasite (25µm).
								4	21.4	32	2 grains scheelite (50-500µm).
											1 grain molybdenite (250µm).
TPKRC-10-48-02	Yes	5 C	25	25		1		1			~500 grains pyrite (25-500µm).
		8 C	25	50	1			1			1 grain arsenopyrite (100µm).
		10 C	25	75	1			1			~100 grains marcasite (25µm).
								3	17.0	18	1 grain scheelite (50-500µm).
TPKRC-10-48-03	Yes	5 C	25	25	1	1		2			~100 grains pyrite (25-1000µm).
		8 C	25	50		1		1			2 grains arsenopyrite (75-100µm).
								3	19.4	7	~100 grains marcasite (25µm).
											5 grains scheelite (100-200µm).
TPKRC-10-49-01	Yes	NO VISIBLE GOLD									~1500 grains pyrite (25-500µm).
											~500 grains marcasite (25µm).
											2 grains scheelite (75µm).
TPKRC-10-49-02	Yes	5 C	25	25		1		1			~500 grains pyrite (25-200µm).
		13 C	25	100		2	1	3			1 grain arsenopyrite (100µm).
		10 C	50	50		2		2			2 grains scheelite (100µm).
		13 C	50	75			1	1			
		15 C	50	100	1			1			
		25 M	100	100				1			
		75 M	125	300				1			
								10	15.1	1975	
TPKRC-10-50-01	Yes	3 C	15	15			1	1			1% pyrite.
		5 C	25	25	3	1	1	5			~800 grains arsenopyrite (50-1500µm).
		8 C	25	50		2		2			~500 grains marcasite (25-50µm).
		10 C	25	75	1			1			3 grains scheelite (100-1000µm).
		10 C	50	50	1			1			2 grains galena (25-200µm).
		13 C	50	75	1			1			5 grains molybdenite (50-200µm).
		15 C	75	75	1			1			
								12	24.2	70	
TPKRC-10-50-02	Yes	3 C	15	15			1	1			2% pyrite.
		5 C	25	25		2	1	3			~600 grains arsenopyrite (50-1500µm).
		8 C	25	50		1		1			~200 grains marcasite (25-50µm).
		10 C	25	75			1	1			~20 grains scheelite (100-400µm).
		10 C	50	50		1		1			1 grain galena (100µm).
		13 C	50	75	1			1			5 grains molybdenite (200-400µm).
		15 C	75	75		1		1			
								9	23.4	67	
TPKRC-10-51-01	Yes	3 C	15	15			3	3			~2000 grains pyrite (25-1000µm).
		5 C	25	25			3	8			~70 grains arsenopyrite (50-500µm).
		8 C	25	50	1		2	4			~100 grains marcasite (25-50µm).
		10 C	25	75		2	1	3			2 grains scheelite (200µm).
		13 C	25	100			1	1			1 grain molybdenite (100µm).
		10 C	50	50		2	3	5			
		13 C	50	75		1	2	3			
		15 C	75	75			1	1			
		100 M	125	175	1			1			
								35	17.2	1244	
TPKRC-10-52-01	Yes	3 C	15	15	1		2	3			~1000 grains pyrite (15-2000µm).
		5 C	25	25	1	3	4	8			~150 grains arsenopyrite (25-2000µm).
		8 C	25	50	4	6	3	13			~100 grains marcasite (25µm).
		10 C	25	75	1	1	2	4			5 grains scheelite (75-200µm).
		13 C	25	100	1			1			1 grain molybdenite (100µm).
		10 C	50	50	1	2	1	4			
		13 C	50	75	1		2	3			
		15 C	50	100			1	1			
		15 C	75	75		1		1			
		75 M	100	175	1			1			
								39	21.5	754	

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-53-01	Yes	3 C	15	15		4	2	6			~250 grains pyrite (25-1000µm). ~10 grains arsenopyrite (100-500µm).
		5 C	25	25		2	3	5			
		8 C	25	50		1	3	4			
		10 C	25	75		1		1			
		10 C	50	50				1	1		
		13 C	50	75				1	1		
		18 C	50	125				1	1		
		15 C	75	75	1			1	1		
							20	8.9	325		
TPKRC-10-53-02	Yes	3 C	15	15	1	2		3			~1000 grains pyrite (25-1500µm). ~20 grains arsenopyrite (75-750µm). ~200 grains marcasite (15-25µm). 5 grains scheelite (100-500µm). 2 grains galena (75µm).
		5 C	25	25	2			2			
		8 C	25	50				1	1		
		15 C	50	100				1	1		
							7	21.7	36		
TPKRC-10-54-01	Yes	3 C	15	15		2	5	7			~1000 grains pyrite (25-1000µm). 3 grains arsenopyrite (100-250µm). ~200 grains marcasite (25µm). ~25 grains scheelite (100-500µm). 3 grains molybdenite (150-300µm).
		5 C	25	25	1	8	11	20			
		8 C	25	50		6	8	14			
		10 C	25	75		2	3	5			
		13 C	25	100			1	1			
		10 C	50	50		3	2	5			
		13 C	50	75		1	2	3			
		15 C	50	100		1	3	4			
		15 C	75	75			2	2			
							61	16.2	551		
TPKRC-10-54-02	Yes	3 C	15	15		3	14	17			5% pyrite. ~750 grains arsenopyrite (50-1000µm). 3 grains scheelite (150µm). 5 grains molybdenite (300µm).
		5 C	25	25		11	19	30			
		8 C	25	50	3	11	15	29			
		10 C	25	75		3	4	7			
		10 C	50	50		4	9	13			
		13 C	50	75	1	1	4	6			
		15 C	50	100			1	1			
		15 C	75	75			3	3			
		18 C	75	100			2	2			
		22 C	75	150			1	1			
		25 M	100	100			1	1			
		25 M	100	150			1	1			
		50 M	125	125		1	1	2			
		50 M	150	150			1	1			
27 C	125	150	1			1					
							115	18.6	2407		
TPKRC-10-55-01	Yes	3 C	15	15	1	1	1	3			2% pyrite. ~5000 grains arsenopyrite (50-750µm). 1 grain scheelite (250µm). 2 grains molybdenite (150µm).
		5 C	25	25		3	2	5			
		8 C	25	50	1	2	1	4			
		10 C	25	75	2	2		4			
		10 C	50	50	1	1		2			
		13 C	50	75	1	1		2			
		50 M	50	125		1		1			
		15 C	75	75		1		1			
		50 M	100	100	1			1			
		125 M	150	150		1		1			
							24	7.8	3938		
TPKRC-10-55-02	Yes	3 C	15	15	1	7	8	16			5% pyrite. ~6000 grains arsenopyrite (25-1000µm). 2 grains scheelite (150µm). 3 grains molybdenite (300µm). 3 grains galena (75-150µm).
		5 C	25	25	10	11	9	30			
		8 C	25	50	3	8	2	13			
		10 C	25	75	5	3	2	10			
		10 C	50	50	1	2	1	4			
		13 C	50	75	2	3	2	7			
		15 C	50	100	2			2			
		15 C	75	75	1	2		3			
		18 C	75	100	2			2			
		20 C	75	125	2			2			
		75 M	100	100		1		1			
		50 M	100	125	1			1			
		50 M	125	225		1		1			
75 M	150	175	1			1					
							93	18.7	2787		
TPKRC-10-56-01	Yes	3 C	15	15		3	1	4			2% pyrite. ~5000 grains arsenopyrite (25-1500µm). 3 grains scheelite (100µm). 2 grains molybdenite (150µm). 4 grains galena (75-250µm).
		5 C	25	25	2	6	3	11			
		8 C	25	50	4	1	1	6			
		10 C	25	75		1	1	2			
		10 C	50	50	2	1		3			
		13 C	50	75	3			3			
		15 C	75	75	2			2			
		25 M	75	150	1			1			
		75 M	100	150	1			1			
100 M	125	150	1			1					
							34	19.1	1544		

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-57-01	Yes	3 C	15	15	1	3	5	9	~1000 grains pyrite (25-1000µm). ~150 grains arsenopyrite (25-500µm). 1 grain scheelite (100µm).		
		5 C	25	25	1	7	11	19			
		8 C	25	50	1		4	5			
		10 C	25	75	1	2	2	5			
		13 C	25	100		1		1			
		10 C	50	50	3	4	4	11			
		13 C	50	75	2		3	5			
		18 C	50	125	1			1			
		15 C	75	75	3	2	1	6			
		18 C	75	100	1	2		3			
		20 C	75	125	1			1			
		22 C	75	150	1			1			
		50 M	100	125	1			1			
								68		14.3	1573
TPKRC-10-57-02	Yes	3 C	15	15		1	1	1	~300 grains pyrite (25-750µm). ~10 grains arsenopyrite (100-200µm). 3 grains scheelite (75-150µm). 1 grain molybdenite (200µm).		
		5 C	25	25	1	3		4			
		8 C	25	50	2	3		5			
		10 C	50	50		3		3			
		13 C	50	75		1		1			
		50 M	75	125	1			1			
						15	15.8	330			
TPKRC-10-57-03	Yes	5 C	25	25		2		2	~500 grains pyrite (25-1000µm). ~20 grains arsenopyrite (75-300µm). ~200 grains marcasite (15-25µm). 1 grain molybdenite (250µm).		
		8 C	25	50		1	1	2			
		10 C	50	50		1	1	2			
						6	20.7	29			
TPKRC-10-57-04	Yes	3 C	15	15		1	21	22	10% pyrite. ~200 grains arsenopyrite (75-100µm). ~10 grains galena (50-100µm).		
		5 C	25	25		9	50	59			
		8 C	25	50	2	14	31	47			
		10 C	25	75		1	5	6			
		13 C	25	100			1	1			
		10 C	50	50		6	11	17			
		13 C	50	75	1	5	13	19			
		15 C	50	100			4	4			
		15 C	75	75		1	4	5			
		18 C	75	100			5	5			
		20 C	75	125			2	2			
		22 C	75	150	1		1	2			
		75 M	75	200			2	2			
		50 M	100	100			1	1			
75 M	150	200			2	2					
75 M	150	250			1	1					
						195	38.2	3071			
TPKRC-10-57-05	Yes	3 C	15	15		7	26	33	~5000 grains pyrite (25-1500µm). ~250 grains arsenopyrite (75-750µm). 1 grain galena (75µm).		
		5 C	25	25	3	27	57	87			
		8 C	25	50	8	46	40	94			
		10 C	25	75	1	7	13	21			
		13 C	25	100		1	3	4			
		10 C	50	50	1	12	26	39			
		13 C	50	75	1	9	13	23			
		15 C	50	100		5	4	9			
		15 C	75	75	1	2	3	6			
		18 C	75	100	1			1			
		20 C	75	125	1	1	2	4			
		27 C	75	200		1		1			
		22 C	100	125		1		1			
		75 M	100	150	1	1		2			
100 M	125	175			1	1					
75 M	125	300		1		1					
75 M	150	175			1	1					
						328	29.0	4443			
TPKRC-10-58-01	Yes	3 C	15	15		3	3	6	~500 grains pyrite (25-1000µm). 5 grains arsenopyrite (100-250µm). SEM check: 1 of ~50 steel metal turnings = 1 Cr-steel (contamination).		
		5 C	25	25	1	3	4	8			
		8 C	25	50	2		4	6			
		10 C	25	75	1	1		2			
		10 C	50	50	3	3	1	7			
		13 C	50	75	1	3	1	5			
		15 C	75	75	1			1			
		31 C	75	250		1		1			
						36	20.6	543			
TPKRC-10-58-02	Yes	5 C	25	25	2	2	1	5	No sulphides.		
		8 C	25	50	1	2		3			
		10 C	25	75	2			2			
		15 C	75	75	1			1			
		18 C	75	100		2		2			
		75 M	125	550		1		1			
						14	10.3	6552			

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-58-03	Yes	3 C	15	15		2	5	12	19	0.5% pyrite. ~1500 grains arsenopyrite (50-1500µm). 3 grains scheelite (100-400µm). 1 grain molybdenite (1500µm). 1 grain galena (150µm).	
		5 C	25	25		6	8	16	30		
		8 C	25	50		2	6	5	13		
		10 C	25	75			3		3		
		10 C	50	50		4	7	3	14		
		13 C	50	75		4	4	4	12		
		15 C	50	100		2	2		4		
		15 C	75	75		2	2	2	6		
		18 C	75	100		1	1		2		
		20 C	75	125			1		1		
		27 C	75	200			1		1		
		100 M	100	100			1		1		
		75 M	100	125		1			1		
							107	36.9	1030		
TPKRC-10-59-01	Yes	3 C	15	15			1	3	4	~600 grains pyrite (25-1500µm). ~150 grains arsenopyrite (50-1500µm). ~100 grains marcasite (25µm).	
		5 C	25	25			4	5	9		
		8 C	25	50		2	2	1	5		
		10 C	25	75		2			2		
		10 C	50	50		2	1		3		
		13 C	50	75				1	1		
		15 C	50	100		1		1	2		
		15 C	75	75		3	1		4		
		18 C	75	100		1	1		2		
							32	17.2	456		
TPKRC-10-59-02	Yes	3 C	15	15			1	4	5	~2000 grains pyrite (25-2000µm). ~700 grains arsenopyrite (25-200µm). ~100 grains marcasite (25µm). 2 grains molybdenite (100µm). 2 grains galena (100-400µm).	
		5 C	25	25		1	4	3	8		
		8 C	25	50		1	3	3	7		
		10 C	25	75				1	1		
		25 M	25	100				1	1		
		25 M	25	125			1		1		
		10 C	50	50		3	1		4		
		13 C	50	75		3	3	2	8		
		15 C	75	75			1	1	2		
		18 C	75	100		2			2		
		20 C	75	125		1			1		
		75 M	300	325			1		1		
									41		19.4
TPKRC-10-59-03	Yes	3 C	15	15		1		1	2	~1000 grains pyrite (25-2000µm). ~2000 grains arsenopyrite (50-2000µm). ~500 grains marcasite (25-50µm). 5 grains scheelite (100-400µm). 4 grains molybdenite (100-200µm). 3 grains galena (25-250µm).	
		5 C	25	25		1	3	5	9		
		8 C	25	50		4	1	2	7		
		10 C	25	75		1	1	2	4		
		10 C	50	50		2		1	3		
		13 C	50	75		2	1		3		
		15 C	50	100		1			1		
		15 C	75	75		2			2		
		18 C	75	100		2			2		
		20 C	75	125		1			1		
		25 M	100	125		1			1		
		125 M	125	225		1			1		
									36		20.7
TPKRC-10-59-04	Yes	3 C	15	15			1	5	6	5% pyrite. ~5000 grains arsenopyrite (15-2000µm). ~1000 grains marcasite (25-50µm). 1 grain molybdenite (200µm). 4 grains galena (100-400µm).	
		5 C	25	25			5	5	10		
		8 C	25	50		1	3	3	7		
		10 C	25	75			1		1		
		10 C	50	50		1	3		4		
		13 C	50	75		1	2		3		
		15 C	75	75		1	1		2		
		75 M	150	200			1		1		
							34	22.9	936		
TPKRC-10-59-05	Yes	3 C	15	15			1	2	3	1% pyrite. 3 grains molybdenite (200-400µm). 9 grains galena (75-200µm).	
		5 C	25	25		1	7	1	9		
		8 C	25	50		1	9	4	14		
		10 C	25	75			2		2		
		10 C	50	50			2		2		
		13 C	50	75			1	1	2		
							32	17.7	163		
TPKRC-10-60-01	Yes	3 C	15	15				7	7	~500 grains pyrite (25-500µm). ~150 grains arsenopyrite (25-400µm).	
		5 C	25	25		1	7	9	17		
		8 C	25	50		2	7	4	13		
		10 C	25	75			2	1	3		
		13 C	25	100		1			1		
		10 C	50	50			5	3	8		
		13 C	50	75			2	1	3		
		18 C	50	125				1	1		
		15 C	75	75			1	2	3		
		18 C	75	100			1	1	2		
		20 C	100	100			1		1		
									59		13.4

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-60-02	Yes	3 C	15	15			1	3	4		~2000 grains pyrite (25-1000µm). ~300 grains arsenopyrite (25-500µm). 1 grain molybdenite (100µm).
		5 C	25	25			2	4	8	14	
		8 C	25	50			2	6	9	17	
		10 C	25	75			1		1	2	
		10 C	50	50			1	3	1	5	
		13 C	50	75				3	2	5	
		15 C	50	100				1		1	
		15 C	75	75				1		1	
		25 M	100	100				1		1	
		50 M	100	200				1		1	
								51	19.8	836	
TPKRC-10-60-03	Yes	3 C	15	15			1	3	4		~5000 grains pyrite (25-2000µm). ~1500 grains arsenopyrite (25-1500µm). 1 grain molybenite (100µm). 1 grain galena (100µm).
		5 C	25	25			5	7	12		
		8 C	25	50			2	2	1	3	
		10 C	25	75		2	2	1	1	5	
		10 C	50	50		2	1		3		
		13 C	50	75			1		1		
		15 C	75	75				1	1		
		25 M	75	75				1	1		
								30	14.5	287	
TPKRC-10-60-04	Yes	3 C	15	15				2	2		0.5% pyrite. ~1000 grains arsenopyrite (25-2000µm). 1 grain scheelite (100µm). 1 grain molybdenite (250µm). 3 grains galena (100-300µm).
		5 C	25	25				2	2		
		8 C	25	50				1	2	3	
		10 C	25	75				1	1		
		10 C	50	50		1	1		2		
		13 C	50	75		1	1		2		
		50 M	125	150		1			1		
								13	18.7	466	
TPKRC-10-60-05	Yes	3 C	15	15				6	6		~30,000 grains pyrite (15-2000µm). ~15,000 grains arsenopyrite (25-2000µm). 2 grains scheelite (125µm). 1 grain molybdenite (100µm). 4 grains galena (75-150µm).
		5 C	25	25			2	3	5		
		8 C	25	50		1	2		3		
		10 C	25	75			1		1		
		10 C	50	50		1			1		
		13 C	50	75			2		2		
		18 C	50	125			1		1		
25 M	150	200		1			1				
								20	18.6	445	
TPKRC-10-60-06	Yes	5 C	25	25				2	2		~5000 grains pyrite (25-1500µm). ~300 grains arsenopyrite (25-750µm). ~500 grains marcasite (15-25µm). 2 grains scheelite (150µm). 1 grain galena (500µm).
									2	20.2	
TPKRC-10-60-07	Yes	5 C	25	25			2		2		~3500 grains pyrite (25-1500µm). ~500 grains arsenopyrite (50-750µm).
		8 C	25	50			1		1		
		10 C	25	75			1		1		
		20 C	75	125			1		1		
								5	25.0	73	
TPKRC-10-61-01	Yes	3 C	15	15			3	15	18		~2000 grains pyrite (25-1000µm). ~400 grains arsenopyrite (25-400µm). 5 grains scheelite (75-100µm).
		5 C	25	25		2	11	35	48		
		8 C	25	50		3	9	22	34		
		10 C	25	75			1	3	4		
		13 C	25	100			1	1	2		
		10 C	50	50		1	7	17	25		
		13 C	50	75			4	4	8		
		15 C	50	100			2	3	5		
		18 C	50	125			1		1		
		15 C	75	75		1	1	1	3		
		18 C	75	100		1	1	2	4		
		50 M	100	125				1	1		
								153	23.6	1198	
TPKRC-10-62-01	Yes	3 C	15	15				5	5		~5000 grains pyrite (15-1000µm). ~1000 grains arsenopyrite (15-400µm). ~500 grains marcasite (25-50µm). 1 grain scheelite (100µm). 1 grain molybdenite (100µm). 1 grain galena (75µm).
		5 C	25	25		2	6	8	16		
		8 C	25	50		4	19	10	33		
		10 C	25	75			2	1	3		
		10 C	50	50		3	5		8		
		13 C	50	75		2	3	1	6		
		15 C	50	100		1			1		
		15 C	75	75				1	1		
		18 C	75	100			1		1		
		25 M	75	125			1		1		
								75	29.5	394	

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-63-01	Yes	3 C	15	15	1	2	2	5	5% pyrite. ~60,000 grains arsenopyrite (15-2000µm). ~2000 grains marcasite (25-50µm). 2 grains molybdenite (100µm). 1 grain galena (100µm).		
		5 C	25	25	5	7	3	15			
		8 C	25	50	9	6	4	19			
		10 C	25	75	2	2	2	6			
		10 C	50	50	9	10	4	23			
		13 C	50	75	5	7	1	13			
		15 C	50	100	2	2		4			
		18 C	50	125		1		1			
		15 C	75	75	2	3		5			
		50 M	75	100		2	1	3			
		25 M	75	125			1	1			
		50 M	100	300		1		1			
		50 M	125	200		1		1			
		25 M	150	175		1		1			
		150 M	200	300			1	1			
								99		42.4	3061
TPKRC-10-63-02	Yes	3 C	15	15		6	9	15	5% pyrite. ~20,000 grains arsenopyrite (15-5000µm). ~1000 grains marcasite (25-50µm). 3 grains molybdenite (100-400µm). 4 grains galena (50-100µm).		
		5 C	25	25	1	29	19	49			
		8 C	25	50	3	19	17	39			
		10 C	25	75	1	4	7	12			
		13 C	25	100		1	1	2			
		15 C	25	125	1			1			
		10 C	50	50	2	15	7	24			
		13 C	50	75	3	3	3	9			
		15 C	50	100	1	2	5	8			
		18 C	50	125	2			2			
		15 C	75	75	1	2	2	5			
		18 C	75	100		3	1	4			
		20 C	75	125	1			1			
		75 M	75	125	1			1			
		50 M	75	150	2			2			
		50 M	100	150		1		1			
29 C	100	200			1	1					
50 M	125	225	1			1					
						177	43.5	1596			
TPKRC-10-63-03	Yes	3 C	15	15		10	23	33	5% pyrite. ~20,000 grains arsenopyrite (15-1500µm). ~1000 grains marcasite (25-50µm). 3 grains molybdenite (100-400µm). 4 grains galena (50-100µm).		
		5 C	25	25	3	19	36	58			
		8 C	25	50	4	13	23	40			
		10 C	25	75	1	6	12	19			
		13 C	25	100			1	1			
		10 C	50	50	1	8	10	19			
		13 C	50	75	2	6	6	14			
		15 C	50	100	1	2	4	7			
		18 C	50	125			1	1			
		15 C	75	75		3	2	5			
		18 C	75	100		3	1	4			
		20 C	75	125	1	1	3	5			
		22 C	75	150			1	1			
		20 C	100	100			1	1			
		50 M	100	100	1			1			
		50 M	200	450			1	1			
						210	31.6	2689			
TPKRC-10-63-04	Yes	3 C	15	15		7	21	28	20% pyrite. ~30,000 grains arsenopyrite (25-1500µm).		
		5 C	25	25	2	15	34	51			
		8 C	25	50	1	21	32	54			
		10 C	25	75		3	13	16			
		13 C	25	100	1		1	2			
		10 C	50	50	1	10	28	39			
		13 C	50	75		3	11	14			
		15 C	50	100	1	3	4	8			
		18 C	50	125	1	1	3	5			
		25 M	75	75	2	5	5	12			
		25 M	75	100	3	1	6	10			
		50 M	100	100		1		1			
		25 M	100	125			3	3			
		25 M	100	150		1		1			
		75 M	175	150			1	1			
								245		26.3	3353
TPKRC-10-64-01	Yes	3 C	15	15		1	4	5	~1500 grains pyrite (25-1500µm). ~500 grains arsenopyrite (50-1000µm). 5 grains scheelite (125µm).		
		5 C	25	25		2	4	6			
		8 C	25	50	1	5	4	10			
		10 C	50	50		1	2	3			
		13 C	50	75			1	1			
		15 C	50	100		1		1			
		25 M	75	75		1		1			
		25 M	75	125		1	1	2			
22 C	100	125		1		1					
						30	14.4	660			

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-64-02	Yes	3 C	15	15			1	4	5	~1000 grains pyrite (25-1500µm). ~350 grains arsenopyrite (50-750µm). 3 grains scheelite (200µm). 3 grains galena (75-100µm).	
		5 C	25	25			3	3	6		
		8 C	25	50			2	5	7		
		10 C	50	50				1	1		
		13 C	50	75			1	1	2		
		22 C	100	125				1	1		
							22	17.5	217		
TPKRC-10-65-01	Yes	3 C	15	15			2	1	3	~500 grains pyrite (25-500µm). ~25 grains arsenopyrite (50-200µm). 2 grains scheelite (150µm). 2 grains molybdenite (75-100µm).	
		5 C	25	25				3	3		
		8 C	25	50	1		3		4		
		10 C	25	75			1	2	3		
		13 C	25	100				1	1		
		10 C	50	50				1	1		
		13 C	50	75				1	1		
		18 C	50	125			1		1		
							17	17.5	168		
TPKRC-10-66-01	Yes	3 C	15	15	3		1	11	15	10% pyrite. ~12,000 grains arsenopyrite (50-1500µm). ~500 grains marcasite (25-25µm). 2 grains scheelite (200µm). ~15 grains molybdenite (150-250µm).	
		5 C	25	25	3		11	12	26		
		8 C	25	50	3		7	1	11		
		10 C	25	75	1		3	2	6		
		10 C	50	50			7	1	8		
		13 C	50	75	1		4	3	8		
		15 C	50	100			4		4		
		15 C	75	75			2	2	4		
		18 C	75	100	1		2	2	5		
		20 C	75	125			1		1		
		50 M	125	250				1	1		
									89		16.6
TPKRC-10-66-02	Yes	3 C	15	15			3	3	6	5% pyrite. ~1500 grains arsenopyrite (25-1500µm). ~2000 grains marcasite (25µm). 2 grains scheelite (100µm). 5 grains molybdenite (100-500µm).	
		5 C	25	25			6	16	22		
		8 C	25	50	1		3	11	15		
		10 C	25	75			2	2	3		
		10 C	50	50	2		2		4		
		13 C	50	75	2		2	2	6		
		15 C	50	100	1		2		3		
		18 C	50	125			2		2		
		15 C	75	75			1	1	2		
		18 C	75	100	1		2		3		
		20 C	75	125			2		2		
		75 M	75	150			1		1		
		20 C	100	100			1		1		
		75 C	100	150	1				1		
		75 C	125	125			1		1		
		100 M	150	400	1				1		
							73	19.6	5079		
TPKRC-10-67-01	Yes	5 C	25	25				1	1	~1500 grains pyrite (25-75µm). ~150 grains arsenopyrite (25-500µm). ~200 grains marcasite (15-25µm).	
		10 C	25	75			1		1		
		13 C	50	75			2		2		
							4	2.8	344		
TPKRC-10-68-01	Yes	3 C	15	15			1	5	6	~500 grains pyrite (25-250µm). ~50 grains arsenopyrite (50-200µm).	
		5 C	25	25			2	2	5		
		8 C	25	50	1		1	1	3		
		10 C	25	75			1		1		
		10 C	50	50	2		2	1	5		
		13 C	50	75			1	1	2		
		15 C	50	100	1				1		
		15 C	75	75				1	1		
							24	15.5	231		
TPKRC-10-68-02	Yes	3 C	15	15	4		2		6	~500 grains pyrite (25-200µm). ~50 grains arsenopyrite (50-100µm). 1 grain scheelite (150µm).	
		5 C	25	25	2		2	2	6		
		8 C	25	50	1				1		
		10 C	25	75			1		1		
		13 C	25	100	1				1		
		10 C	50	50	2		1	1	4		
		13 C	50	75	1				1		
		15 C	75	75			1		1		
		18 C	75	100			1		1		
		50 M	75	150	1				1		
							23	21.2	395		

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-69-01	Yes	3 C	15	15			1	1	2	~200 grains pyrite (25-100µm). 2 grains arsenopyrite (150µm). 2 grains scheelite (200µm).	
		5 C	25	25			1	1	2		
		8 C	25	50		2		1	3		
		10 C	25	75			1	1	1		
		13 C	25	100				1	1		
		10 C	50	50		1			1		
		13 C	50	75		2			2		
		15 C	50	100		2			2		
		27 C	100	175		1			1		
		25 M	125	175		1			1		
									16		16.9
TPKRC-10-69-02	Yes	3 C	15	15	2		1	4	~750 grains pyrite (25-750µm). ~30 grains arsenopyrite (50-150µm). 1 grain molybdenite (200µm).		
		5 C	25	25			2	3		5	
		10 C	50	50	1		1	2		2	
		13 C	50	75	1		3	1		5	
		18 C	75	100	2			2		2	
		50 M	100	125				1		1	
										19	19.1
TPKRC-10-69-03	Yes	3 C	15	15				1	1	2% pyrite. ~1500 grains arsenopyrite (50-750µm). 3 grains molybdenite (150-200µm). 5 grains galena (75-150µm).	
		5 C	25	25			2	2	2		
		10 C	25	75	1		1	2	2		
		10 C	50	50	1			1	1		
							6	18.5	34		
TPKRC-10-69-04	Yes	3 C	15	15			1	3	4	2% pyrite. ~8000 grains arsenopyrite (25-1000µm). 2 grains molybdenite (100-150µm). ~10 grains galena (50-150µm).	
		5 C	25	25	2		4	2	8		
		8 C	25	50	2		1	2	5		
		10 C	25	75	1			1	1		
		10 C	50	50			2	2	4		
		13 C	50	75	1		1	1	3		
		15 C	50	100	1		1	1	2		
		18 C	50	125			1	1	1		
		20 C	50	150	1			1	1		
									29		25.5
TPKRC-10-69-05	Yes	3 C	15	15	1		4	1	6	5% pyrite. ~2000 grains arsenopyrite (25-1500µm). ~10 grains galena (50-150µm).	
		5 C	25	25	3		14	3	20		
		8 C	25	50	6		8	7	21		
		10 C	25	75	2			1	3		
		10 C	50	50	1		3	2	6		
		13 C	50	75	1		1	1	3		
		15 C	50	100			3		3		
		15 C	75	75	1			1	2		
		18 C	75	100	1		1	1	2		
		50 M	75	100			1	1	1		
		75 M	200	325	1			1	1		
							68	32.0	1623		
TPKRC-10-69-06	Yes	3 C	15	15	1		6	4	11	5% pyrite. ~1500 grains arsenopyrite (25-1500µm). 4 grains galena (75-100µm).	
		5 C	25	25	2		11	4	17		
		8 C	25	50	4		4	1	9		
		10 C	25	75			1	1	2		
		10 C	50	50	2		1	1	3		
		13 C	50	75	1		1	1	3		
		15 C	75	75				1	1		
		100 M	150	250			1	1	1		
71 C	300	550	1			1	1				
							48	32.8	3974		
TPKRC-10-69-07	Yes	3 C	15	15			1	2	2% pyrite. ~500 grains arsenopyrite (50-1500µm). ~500 grains marcasite (15-25µm). 2 grains scheelite (200µm).		
		5 C	25	25			1	1		1	
		8 C	25	50	2		1	1		4	
		10 C	50	50			1	1		2	
		13 C	50	75			3			3	
		18 C	75	100			1			1	
		25 C	100	150	1			1		1	
							14	29.1	198		
TPKRC-10-69-08	Yes	3 C	15	15				2	2	0.5% pyrite.	
		5 C	25	25			3	2	5		
		8 C	25	50	4		6	2	12		
		10 C	25	75	1		2	1	4		
		10 C	50	50			1	2	3		
		13 C	50	75	1			1	2		
		15 C	75	75	1		1		2		
18 C	75	100			1		1				
							31	23.0	239		
TPKRC-10-70-01	Yes	8 C	25	50				1	1	~50 grains pyrite (25-200µm). ~15 grains arsenopyrite (50-150µm). 1 grain scheelite (250µm).	
		20 C	100	100			1	1	1		
							2	19.0	83		

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-70-02	Yes	5 C	25	25			2	3	5		~600 pyrite (25-1500µm). ~250 grains arsenopyrite (25-750µm). ~100 grains marcasite (100µm).
		8 C	25	50			3	4	7		
		10 C	25	75				2	2		
		10 C	50	50			2	4	6		
		15 C	50	100				1	1		
		18 C	50	125			1		1		
		50 M	50	175				1	1		
		75 M	125	225				1	1		
		75 M	150	200			1		1		
		75 M	175	200			1		1		
		150 M	150	300				1	1		
									27	21.9	
TPKRC-10-70-03	Yes	3 C	15	15				1	1		1% pyrite. ~1000 grains arsenopyrite (25-1500µm). ~2000 grains marcasite (25-50µm). 2 grains molybdenite (150µm). 3 grains galena (100-200µm).
		5 C	25	25		1	5	1	7		
		8 C	25	50		1	2		3		
		10 C	25	75			2	1	3		
		13 C	25	100			1		1		
		10 C	50	50		1	1		2		
		13 C	50	75		1	1	1	3		
		15 C	75	75		1	1		2		
		18 C	75	100				1	1		
		25 M	75	150			1		1		
		50 M	100	125			1		1		
									25	21.8	
TPKRC-10-70-04	Yes	5 C	25	25		3	1		4		2% pyrite. ~2000 grains arsenopyrite (25-1000µm). ~1000 grains marcasite (25-50µm). 5 grains scheelite (100-400µm). 1 grain molybdenite (100µm). ~10 grains galena (100-175µm).
		8 C	25	50		1	2		3		
		10 C	25	75			1		1		
		10 C	50	50		1			1		
							9	24.3	30		
TPKRC-10-70-05	Yes	3 C	15	15			2	2	4		5% pyrite. ~4500 grains arsenopyrite (25-1000µm). 4 grains scheelite (150-300µm). 2 grains molybdenite (150-250µm). 1 grain galena (500µm).
		5 C	25	25			2	8	10		
		8 C	25	50		1	5		6		
		10 C	25	75		1		1	2		
		13 C	25	100			1		1		
		10 C	50	50			2		2		
		13 C	50	75				2	2		
		15 C	50	100		1		1	2		
		15 C	75	75				1	1		
		18 C	75	100				1	1		
		50 M	75	250			1		1		
									32	23.9	
TPKRC-10-70-06	Yes	3 C	15	15			2	1	3		5% pyrite. ~4500 grains arsenopyrite (25-1500µm). ~1000 grains marcasite (25-50µm). 4 grains scheelite (75-1500µm). 3 grains molybdenite (75-150µm). 4 grains galena (75-200µm).
		5 C	25	25		1	6	4	11		
		8 C	25	50		1	4	1	6		
		10 C	25	75			2	1	3		
		10 C	50	50				1	1		
		15 C	50	100				1	1		
		20 C	50	150			1		1		
		15 C	75	75				1	1		
		75 M	100	250			1		1		
							28	18.5	1165		
TPKRC-10-71-01	Yes	3 C	15	15			1	2	3		~200 grains pyrite (25-500µm). 4 grains arsenopyrite (50-100µm).
		5 C	25	25				5	5		
		8 C	25	50			1	1	2		
		10 C	50	50			1	1	2		
		22 C	50	175			1		1		
		25 M	75	100				1	1		
							14	10.4	408		
TPKRC-10-71-02	Yes	3 C	15	15				1	1		~200 grains pyrite (25-500µm). ~40 grains arsenopyrite (50-250µm). 5 grains scheelite (100-200µm).
		5 C	25	25			1	1	2		
		8 C	25	50		1		1	2		
		10 C	25	75				1	1		
		13 C	50	75			1		1		
		22 C	50	175				1	1		
		50 M	100	200				1	1		
							9	13.3	853		
TPKRC-10-71-03	Yes	8 C	25	50			1		1		~800 grains pyrite (25-1000µm). ~20 grains arsenopyrite (50-400µm). 2 grains scheelite (150µm).
		10 C	25	75			1		1		
		10 C	50	50		1			1		
		13 C	50	75				1	1		
		15 C	75	75				1	1		
							5	22.0	67		

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-71-04	Yes	5 C	25	25		1	1		2		~1500 grains pyrite (15-1000µm). ~50 grains arsenopyrite (50-400µm). 4 grains scheelite (50-500µm).
		8 C	25	50		1	2		3		
		13 C	25	100			1		1		
		10 C	50	50			1	1	2		
		13 C	50	75			1		2		
		50 M	125	200				1	1		
							11	18.9	619		
TPKRC-10-71-05	Yes	3 C	15	15				12	12		~3000 grains pyrite (25-1000µm). ~250 grains arsenopyrite (25-1000µm). ~1000 grains marcasite (15-50µm). 2 grains scheelite (100-250µm). 3 grains molybdenite (75-150µm).
		5 C	25	25			11	10	21		
		8 C	25	50		2	5		6	13	
		10 C	25	75		1			3	4	
		13 C	25	100					1	1	
		10 C	50	50		2	2		6	10	
		13 C	50	75		1	1		2	4	
		15 C	50	100					1	1	
		15 C	75	75					2	2	
		18 C	75	100			4		1	5	
		20 C	75	125		1	1			2	
		20 C	100	100		1				1	
		25 C	125	125			1			1	
50 M	200	200					1	1			
							78	16.4	2168		
TPKRC-10-72-01	Yes	3 C	15	15			1	2	3		1% pyrite. ~350 grains arsenopyrite (50-500µm). 5 grains galena (50-75µm). 1 grain molybdenite (250µm).
		5 C	25	25		2	4		2	8	
		8 C	25	50		4	6		3	13	
		10 C	25	75		1	1			2	
		13 C	25	100		1	1			2	
		10 C	50	50			2		3	5	
		13 C	50	75			1			1	
		15 C	50	100					1	1	
		18 C	50	125					1	1	
		15 C	75	75		1	1			2	
		18 C	75	100		1				1	
		75 M	150	250					1	1	
							40	20.4	1479		
TPKRC-10-72-02	Yes	3 C	15	15			1		1		1% pyrite. ~500 grains arsenopyrite (25-1000µm). 1 grain molybdenite (1500µm).
		5 C	25	25			3		3		
		8 C	25	50			3		2	5	
		10 C	25	75		1	1			2	
		10 C	50	50					1	1	
15 C	50	100			1			1			
							13	25.1	68		
TPKRC-10-72-03	Yes	3 C	15	15		2	1		3		1% pyrite. ~600 grains arsenopyrite (25-500µm). ~1000 grains marcasite (25µm). 3 grains scheelite (100-200µm). 6 grains molybdenite (25-200µm). 8 grains galena (50-250µm).
		5 C	25	25		2	3		1	6	
		8 C	25	50		3	2		1	6	
		10 C	25	75			1			1	
		10 C	50	50		1	1			2	
		13 C	50	75		2				2	
20 C	100	100		1				1			
							21	24.3	143		
TPKRC-10-72-04	Yes	5 C	25	25		2			2		0.5% pyrite. ~1000 grains arsenopyrite (25-1000µm). ~1000 grains marcasite (25-50µm). 3 grains scheelite (25-250µm). 2 grains molybdenite (100µm). 5 grains galena (50-300µm).
		8 C	25	50		1	3		4		
		10 C	50	50		1	1		2		
		25 M	75	100					1	1	
							9	25.1	87		
TPKRC-10-72-05	Yes	3 C	15	15			1		1		0.5% pyrite. ~1000 grains arsenopyrite (25-1000µm). ~1000 grains marcasite (25-50µm). 3 grains scheelite (75-200µm). 4 grains molybdenite (25-300µm). 7 grains galena (75-500µm).
		5 C	25	25			4		4		
		8 C	25	50			2		2		
		10 C	25	75					1	1	
		10 C	50	50			2			2	
		15 C	50	100			1			1	
100 M	150	200			1			1			
							12	18.9	1294		
TPKRC-10-72-06	Yes	3 C	15	15				2	2		0.5% pyrite. ~1200 grains arsenopyrite (25-1500µm). ~1000 grains marcasite (25-50µm). 2 grains scheelite (100µm). 1 grain molybdenite (75µm). 1 grain galena (150µm).
		5 C	25	25		1	5		4	10	
		8 C	25	50			1		1	2	
		10 C	50	50		1	1		3	5	
		13 C	50	75			1			1	
15 C	75	75		1				1			
							21	25.7	93		

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks		
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total					
TPKRC-10-72-07	Yes	3 C	15	15				2	2		0.5% pyrite. ~1300 grains arsenopyrite (25-1000µm). ~2000 grains marcasite (25-50µm). 3 grains molybdenite (100-500µm). 4 grains galena (75-300).		
		5 C	25	25			1	1	1				
		8 C	25	50		4		1	5				
		10 C	25	75			1	1	1				
		10 C	50	50			1	1	1				
		13 C	50	75		1	1		2				
		15 C	75	75		1			1				
							13	18.9	117				
TPKRC-10-72-08	Yes	3 C	15	15	1	1		2	2		1% pyrite. ~500 grains arsenopyrite (25-750µm). ~2500 grains marcasite (15-50µm). ~10 grains galena (50-75µm).		
		5 C	25	25		3		4	7				
		8 C	25	50	2	7		2	11				
		10 C	25	75		2		2	2				
		10 C	50	50		5	1	1	6				
		13 C	50	75	1	2		3	3				
		15 C	75	75	1			1	1				
							32	16.8	260				
TPKRC-10-73-01	Yes	5 C	25	25			1	3	4		~500 grains pyrite (25-200µm). ~10 grains arsenopyrite (50-100µm).		
		8 C	25	50				3	3				
		10 C	25	75			1	1	1				
		10 C	50	50	1	1		2	2				
		13 C	50	75				1	1				
		15 C	50	100	1			1	1				
		25 M	75	75		1		1	1				
		50 M	75	100				1	1				
							14	14.8	396				
TPKRC-10-73-02	Yes	3 C	15	15	1			1	1		0.5% pyrite. ~2000 grains arsenopyrite (25-2000µm). ~500 grains marcasite (25µm). 5 grains scheelite (50-300µm). 3 grains molybdenite (100-500µm). 17 grains galena (50-200µm).		
		5 C	25	25				2	2				
		8 C	25	50	1			1	1				
		13 C	50	75		1		1	1				
		15 C	50	100				1	1				
		50 M	75	75	1			1	1				
		75 M	75	100	1			1	1				
		75 M	100	125		1		1	1				
							9	17.7	830				
TPKRC-10-73-03	Yes	3 C	15	15	1	1		2	2		0.5% pyrite. ~2000 grains arsenopyrite (25-1500µm). 5 grains scheelite (50-300µm). 2 grains molybdenite (100µm). 8 grains galena (50-200µm).		
		5 C	25	25	2	5		1	8				
		8 C	25	50	4	3		1	8				
		10 C	25	75	2	1		2	3				
		10 C	50	50	1	1		2	2				
		13 C	50	75	4	2		1	7				
		15 C	75	75	1			1	1				
		18 C	75	100		1		1	1				
		50 M	75	125	1			1	1				
		50 M	100	100	1			1	1				
									34	20.9		650	
TPKRC-10-73-04	Yes	3 C	15	15	2	2	1	5	5		1% pyrite. ~3500 grains arsenopyrite (25-200µm). ~1000 grains marcasite (25-50µm). ~10 grains scheelite (50-1000µm). 1 grain molybdenite (100µm). 13 grains galena (50-200µm). 1 grain gold (175 x 175 x 200) attached to arsenopyrite.		
		5 C	25	25	5	4		9	9				
		8 C	25	50	1	2	1	4	4				
		10 C	25	75	1	1	1	3	3				
		10 C	50	50	1	3	2	6	6				
		13 C	50	75	4			4	4				
		15 C	50	100	1	2		3	3				
		18 C	50	125			1	1	1				
		18 C	75	100	2			2	2				
		25 M	75	100		1		1	1				
		25 M	75	200		1		1	1				
		25 M	100	125	1			1	1				
		50 M	125	150			1	1	1				
		175 M	175	250		1		1	1				
							42	24.8	3325				
TPKRC-10-73-05	Yes	3 C	15	15	1	6	1	8	8		1% pyrite. ~4000 grains arsenopyrite (25-1500µm). ~1000 grains marcasite (15-50µm). 7 grains scheelite (50-250µm). 4 grains molybdenite (50-150µm). ~40 grains galena (50-250µm).		
		5 C	25	25	4	17	4	25	25				
		8 C	25	50	5	11	4	20	20				
		10 C	25	75	1	2		3	3				
		10 C	50	50	2	6	3	11	11				
		13 C	50	75	2	6	3	11	11				
		15 C	50	100		1	1	2	2				
		18 C	50	125			1	1	1				
		25 M	50	150		1		1	1				
		50 M	75	75	2			2	2				
		50 M	75	100		2		2	2				
		50 M	75	150		1		1	1				
		75 M	125	150		2		2	2				
							89	27.5	1790				
TPKRC-10-74-01	Yes	8 C	25	50		1		1	1		~4000 grains pyrite (25-500µm). ~500 grains arsenopyrite (25-100µm). ~1000 grains marcasite (25-50µm).		
		25 M	125	125			1	1	1				
								2	21.7	139			

Sample Number	Panned No/Yes	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TPKRC-10-74-02	Yes	5 C	25	25			1	1	28.3	8	~4000 grains pyrite (25-1000µm). ~150 grains arsenopyrite (50-150µm). ~2000 grains marcasite (25-50µm). 1 grain scheelite (50µm). 8 grains galena (50-200µm).
		10 C	50	50			1	1			
TPKRC-10-74-03	Yes	10 C	50	50			1	1	23.9	24	0.5% pyrite. ~20 grains arsenopyrite (50-200µm). ~2000 grains marcasite (25-50µm). 3 grains scheelite (250µm). 2 grains molybdenite (100µm). 22 grains galena (50-150µm).
		13 C	50	75	1			1			
TPKRC-10-74-04	Yes	5 C	25	25	1	2	1	4	31.4	336	2% pyrite. ~1000 grains arsenopyrite (25-2000µm). ~500 grains marcasite (25µm). 5 grains scheelite (50-200µm). 5 grains galena (50-200µm).
		10 C	50	50	3			3			
		13 C	50	75	1		1	2			
		15 C	50	100	1	1		2			
		18 C	50	125		1		1			
		15 C	75	75		3		3			
		18 C	75	100		1	1	2			
		25 C	75	175			1	1			
TPKRC-10-74-05	Yes	5 C	25	25		4	4	8	21.2	738	2% pyrite. ~2000 grains arsenopyrite (25-2000µm). ~500 grains marcasite (25µm). 5 grains scheelite (50-200µm). 5 grains galena (50-200µm).
		8 C	25	50		5	3	8			
		10 C	25	75	1			1			
		13 C	25	100	1			1			
		10 C	50	50	1	3	1	5			
		13 C	50	75	1	4	2	7			
		15 C	50	100		3	1	4			
		18 C	50	125		1		1			
		50 M	125	150		1		1			
								36			
TPKRC-10-75-01	Yes	5 C	25	25			2	2	23.4	394	~1000 grains pyrite (25-400µm). 22 grains arsenopyrite (50-200µm). ~50 grains marcasite (25µm). 2 grains scheelite (50-200µm). 2 grains galena (50-100µm).
		8 C	25	50			1	1			
		15 C	75	75		1		1			
		50 M	125	175			1	1			
TPKRC-10-75-02	Yes	3 C	15	15		2	2	22.9	82	0.5% pyrite. ~100 grains arsenopyrite (50-200µm). ~100 grains marcasite (25µm). 2 grains scheelite (50-250µm). 2 grains molybdenite (250µm). 3 grains galena (50-200µm).	
		25 M	100	100	1						1
TPKRC-10-75-03	Yes	5 C	25	25	1		1	19.5	11	1% pyrite. ~400 gains arsenopyrite (50-200µm). ~500 grains marcasite (25-50µm). 5 grains scheelite (75-200µm). 8 grains molybdenite (50-150µm). 15 grains galena (25-75µm).	
		10 C	25	75		1					1

Appendix E

Invoiced Expenditures for the Drilling Program

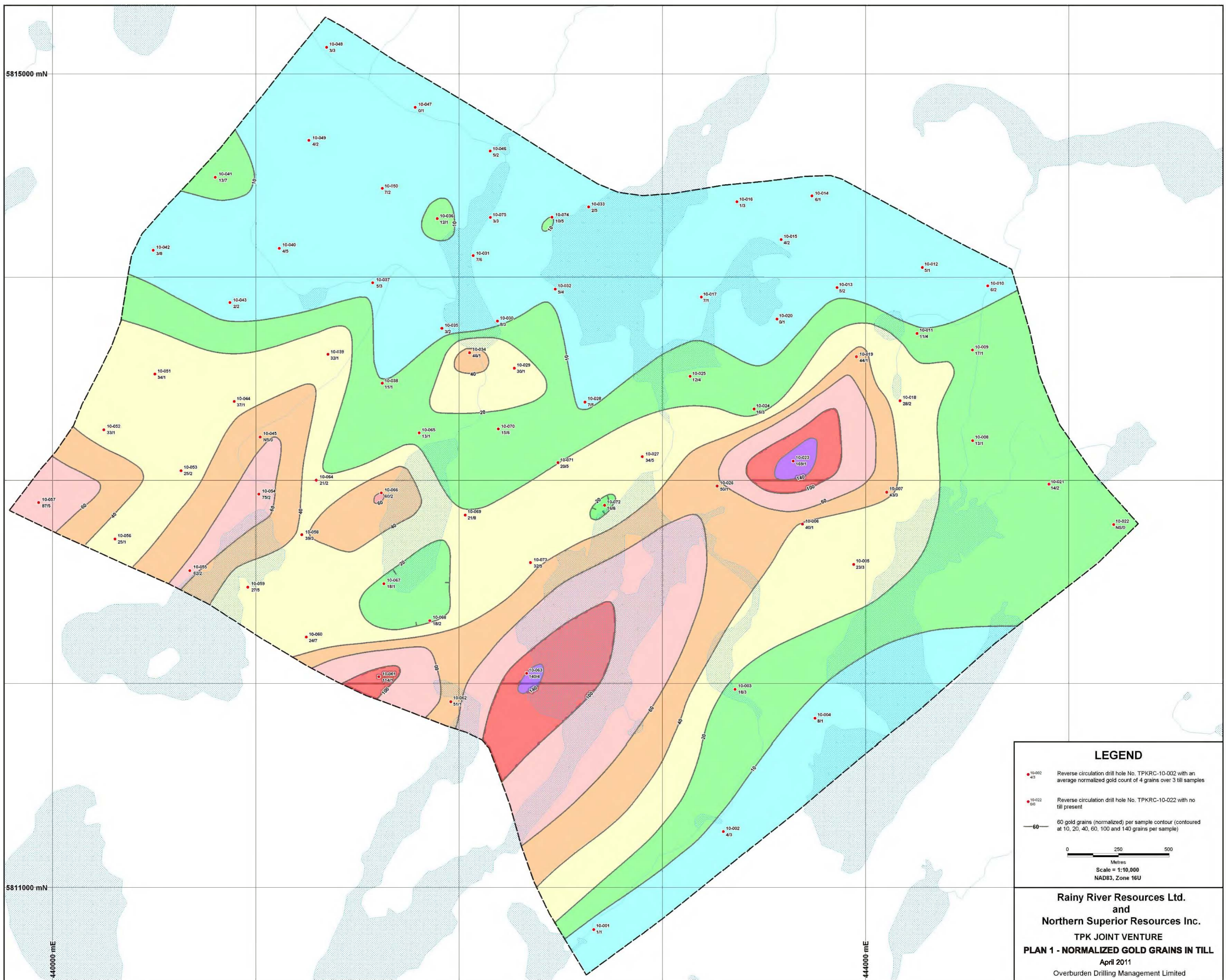
Date	Invoice Number	Contractor	Details	Amount
Camp - operational costs				
01/04/2010	408201011	The North West Company	groceries	17.05
01/04/2010	408201652	The North West Company	milk	3.55
01/04/2010	408201881	The North West Company	groceries	39.16
01/04/2010	408202275	The North West Company	groceries	3.80
14/01/2010	IN162416	Wasaya Airways	Don B - Th Bay to LH	158.50
18/01/2010	1001170007	Victoria Inn - Thunder Bay	Don B - for winter camp organization	102.99
26/01/2010	IN163258	Wasaya Airways	Don's flight - T Bay to L House	158.50
27/01/2010	408208982	The North West Company	gas	42.00
27/01/2010	408209016	The North West Company	groceries	249.38
27/01/2010	408209056	The North West Company	groceries & supplies	9.33
27/01/2010	408209017	The North West Company	gas & oil	21.32
27/01/2010	1001260021	Victoria Inn - Thunder Bay	acc and sustenance - Don - Jan 18-27	1,668.21
28/01/2010	408209098	The North West Company	gas and oil	12.88
29/01/2010	408209337	The North West Company	supplies for crew	45.89
29/01/2010	408209416	The North West Company	2 phone cards	5.40
30/01/2010	408209610	The North West Company	groceries & supplies	118.40
31/01/2010	2010-01-001	Donald R Boucher	Jan 2010 Contract Fees	10,000.00
31/01/2010	9804	North Star Air Ltd.	flights to & from Rowlandson Lk .Jan 27-31, 2010	28,668.00
31/01/2010	9824	North Star Air Ltd.	water jugs for winter camp	207.69
31/01/2010	9825	North Star Air Ltd.	oil and supplies for snow machines	289.16
31/01/2010	9896	North Star Air Ltd.	Jan flights to Rowlandson Lk.	2,100.00
31/01/2010	Jan 2010	Matt Sooley - Exp	satelite phone	86.39
02/01/2010	408209786	The North West Company	groceries and fuel & misc. supplies	3.49
02/01/2010	2010-02	Dennis A Forbes & Associates	consulting & erands for camp	6,453.59
02/02/2010	1011285180	Johnnys Fresh Market	groceries and other supplies	1,311.97
02/02/2010	2010-01	Dennis A Forbes & Associates	Dec 09 meetings & logistics	2,946.88
02/02/2010	408209929	The North West Company	supplies	39.91
02/02/2010	408209919	The North West Company	gas and groceries	186.19
02/03/2010	408210168	The North West Company	supplies	125.24
02/04/2010	408210203	The North West Company	groceries	71.86
02/04/2010	408210250	The North West Company	supplies	89.07
02/05/2010	408210358	The North West Company	gas	142.00
02/06/2010	408210584	The North West Company	groceries	45.24
02/06/2010	408210604	The North West Company	gas and supplies	151.55
02/07/2010	4630546	Roadpost	satelite phone services	26.98
02/08/2010	408210738	The North West Company	groceries	32.73
02/09/2010	408210882	The North West Company	gas	168.00
02/10/2010	IN164558	Wasaya Airways	Don's flight from LH to T Bay - feb12	158.50
02/10/2010	10112885725	Johnnys Fresh Market	groceries and other supplies	1,256.85
02/10/2010	408211142	The North West Company	gas and groceries	121.38
02/10/2010	408211130	The North West Company	gas	178.00
02/10/2010	408211079	The North West Company	groceries	190.07
02/10/2010	408211041	The North West Company	gas	204.00
02/10/2010	408211169	The North West Company	gas	186.00
02/10/2010	408211038	The North West Company	groceries	70.94
02/11/2010	9876	North Star Air Ltd.	transport of supplies	586.88
02/11/2010	9877	North Star Air Ltd.	consumable supplies from Mistik store	430.14
02/12/2010	9843	North Star Air Ltd.	flights with fuel, groceries etc. to winter camp	2,238.96
13/02/2010	1002130001	Victoria Inn - Thunder Bay	sustenance - Don B. in Thunder bay	125.53
16/02/2010	9895	North Star Air Ltd.	transportaion of fuel, crew and supplies	8,820.00
16/02/2010	9836	North Star Air Ltd.	transportation of supplies etc. to winter camp	20,565.68
17/02/2010	9897	North Star Air Ltd.	consumable supplies from Mistik store	2,910.87
17/02/2010	10112875484	Johnnys Fresh Market	groceries and other supplies	1,447.42
18/02/2010	IN165118	Wasaya Airways	Tom M flight from LH to T Bay - Feb 18	158.50
18/02/2010	9899	North Star Air Ltd.	purchase of various supplies for camp	4,134.87
18/02/2010	55817	Randy Thorvaldson	electrical supplies for camp	483.68
19/02/2010	9922	North Star Air Ltd.	purchase of supplies & groceries	947.04
19/02/2010	IN165189	Wasaya Airways	Don B - flight to L House	158.50
19/02/2010	00003585	Forest Helicopters Inc	36.45 hours -Jan 27 to Feb 19 - winter camp support	50,847.75
20/02/2010	1792	Star Tek Satellite	install of satellite communications	2,337.28
23/02/2010	1002230002	Victoria Inn - Thunder Bay	T.Morris - accomodation	128.45
23/02/2010	10112885725	Johnnys Fresh Market	groceries and other supplies	3,162.28
23/02/2010	9934	North Star Air Ltd.	supplies for camp construction	1,740.90
24/02/2010	10112886984	Johnnys Fresh Market	groceries and other supplies	446.49
26/02/2010	Feb 2010	Donald R Boucher	contract fees	10,000.00
26/02/2010	9947	North Star Air Ltd.	supplies for winter camp	8,769.34
26/02/2010	9952	North Star Air Ltd.	camp supplies	60.98
26/02/2010	Feb 2010	Thomas Morris	visit to camp	1,250.00
28/02/2010	feb 2010TPK	Don Boucher - Exp	transport and sustenance to and from project	936.15
28/02/2010	2010-03	Dennis A Forbes & Associates	camp supplies and meetings	3,923.64
28/02/2010	00003594	Forest Helicopters Inc	transport of supplies and equip	6,401.43
28/02/2010	2010-NEDC-0084	Neskantaga Economic Development Corp.	truck rental and accomodations	8,497.14
28/02/2010	9906	North Star Air Ltd.	transport of supplies	3,969.00
28/02/2010	Feb 2010 Exp	Thomas Morris	transportaion etc fo project mgmt	728.00
03/01/2010	2010-08	Dennis A Forbes & Associates	parts and transport for camp construction	445.53
03/01/2010	10049	North Star Air Ltd.	Blair Scott in Rowlandson Lk for 21 days	6,037.50
03/09/2010	10014	North Star Air Ltd.	purchase of supplies	1,576.93
03/11/2010	10043	North Star Air Ltd.	camp supplies	64.72
17/03/2010	10104	North Star Air Ltd.	supplies for camp	461.52
17/03/2010	10106	North Star Air Ltd.	purchase of supplies	460.61
18/03/2010	10113	North Star Air Ltd.	purchase of supplies	351.30
31/03/2010	March2010	Dennis A Forbes & Associates	supplies and meetings	904.57

Date	Invoice Number	Contractor	Details	Amount
30/04/2010	Exp- April - TPK	Thomas Morris	maintenance of phone & internet services	389.97
30/04/2010	Exp-Apr-TPK	Don Boucher - Exp	camp maintenance costs	1,466.40
				\$ 216,534
07/01/2010	4512031	Roadpost	satellite phone service	53.94
26/01/2010	10112842169	Johnnys Fresh Market	general groceries	1,954.98
26/01/2010	10112842204	Johnnys Fresh Market	general groceries for winter camp	1,129.45
31/01/2010	Jan 2010	Hydro One Remote Communities	hydro for core shack - Jan 2010	30.62
31/01/2010	Jan 2010	Matt Sooley - Exp	storage bin	53.99
31/01/2010	Jan 2010	Tom Hart - Exp	meeting in OTT with Stu Avril re drill program	328.46
31/01/2010	Jan 2010	Tom Hart - Exp	meeting in TO with LSG re drill program	1,102.18
31/01/2010	Jan 2010 - Exp Rep	Don Boucher - Exp	acc, travel, sustenance & supplies	4,270.96
31/01/2010	Jan 2010	Thomas Hart	Jan 2010 Contract Fees	3,060.00
31/01/2010	Jan 2010	WSIB	WSIB exp - Jan 2010	1,187.84
31/01/2010	9830	North Star Air Ltd.	gear & groceries - Pickle Lk to L House	1,586.88
31/01/2010	NFN008-2009/10	Neskantaga First Nation	core shack rental for Jan 2010	2,600.00
31/01/2010	2010-01-001	Donald R Boucher	Jan 2010 Contract Fees	5,500.00
03/02/2010	10112854574	Johnnys Fresh Market	groceries	99.79
07/02/2010	4630546	Roadpost	satellite phone services	26.97
09/02/2010	NFN009 - 2009/10	Neskantaga First Nation	Feb 2010 core shack rental	2,600.00
10/02/2010	10112865075	Johnnys Fresh Market	groceries and supplies	1,256.85
11/02/2010	27687	Nakina Air Service	Tom M - excess baggage - Feb 11, 2010	214.29
12/02/2010	9843	North Star Air Ltd.	flights with fuel, groceries etc.	8,435.56
16/02/2010	9895	North Star Air Ltd.	transportation of fuel, crew and supplies	24,559.04
16/02/2010	9836	North Star Air Ltd.	transportation of supplies etc.	2,076.80
18/02/2010	Feb 2010	Hydro One Remote Communities	hydro for core shack - Feb 2010	29.30
18/02/2010	55817	Randy Thorvaldson	transport of freight	93.44
19/02/2010	00003585	Forest Helicopters Inc	12.15 hours -Jan 27 to Feb 19 - winter camp support	16,949.25
19/02/2010	9901	North Star Air Ltd.	consultation fees for winter road building	1,725.00
19/02/2010	9921	North Star Air Ltd.	purchase of 59 drums of fuel	20,650.00
19/02/2010	9921	North Star Air Ltd.	delivery of fuel and one groomer for ice road maintenance	3,200.00
19/02/2010	9922	North Star Air Ltd.	purchase of supplies & groceries	569.09
24/02/2010	IN165622	Wasaya Airways	excess baggage charge - T. Morris	25.00
26/02/2010	8836	Basic Machining	supplies/repairs for winter camp	638.03
26/02/2010	Feb 2010	Matthew Sooley	contract fees	167.50
26/02/2010	Feb 1-28, 2010	Thomas Hart	contract fees	510.00
26/02/2010	Feb 2010	Thomas Morris	contract fees	3,375.00
26/02/2010	9985	North Star Air Ltd.	transport of part for welding repair	300.00
26/02/2010	Feb 2010	Donald R Boucher	contract fees	5,500.00
28/02/2010	Feb 2010	WSIB	WSIB expense	1,035.36
28/02/2010	9984	North Star Air Ltd.	transport of groomer & escort	1,900.00
28/02/2010	9984	North Star Air Ltd.	transport of 101 drums of fuel	12,929.97
28/02/2010	9984	North Star Air Ltd.	purchase of 101 drums of fuel	20,905.03
28/02/2010	9906	North Star Air Ltd.	transport of supplies, fuel etc to camp	34,389.66
28/02/2010	Feb 2010 Exp	Thomas Morris	transportation etc fo project mgmt	728.09
28/02/2010	0210143	Overburden Drilling Management Ltd.	consulting for drill program	43,565.63
28/02/2010	4748581	Roadpost	satellite phone service	264.75
28/02/2010	5068	Sigfusson Northern	moved equipment - pickle lake to lansdowne house	6,500.00
01/03/2010	BF-51544	Bradley Bros. Limited	drill mobilization	29,140.00
01/03/2010	BF-51580	Bradley Bros. Limited	drill operations - Feb 18 to 28, 2010	40,544.21
01/03/2010	408211406	The North West Company	gas	150.00
01/03/2010	408211452	The North West Company	gas	100.00
01/03/2010	408211537	The North West Company	gas	154.00
01/03/2010	408211672	The North West Company	anti freeze	53.98
01/03/2010	408211674	The North West Company	gas	60.00
01/03/2010	408125842	The North West Company	gas	112.00
01/03/2010	408212688	The North West Company	groceries	38.79
01/03/2010	408212446	The North West Company	groceries & supplies	218.36
01/03/2010	408212363	The North West Company	groceries	14.18
01/03/2010	408212261	The North West Company	groceries	42.36
01/03/2010	408212262	The North West Company	gas	100.10
01/03/2010	408211855	The North West Company	groceries	148.63
01/03/2010	408211681	The North West Company	groceries	54.88
01/03/2010	408211697	The North West Company	gas	96.00
01/03/2010	408211727	The North West Company	gas	262.00
01/03/2010	408210355	The North West Company	supplies	23.74
01/03/2010	408211229	The North West Company	gas	140.00
02/03/2010	408214433	The North West Company	groceries	6.91
02/03/2010	408211400	The North West Company	gas	152.00
02/03/2010	10112897261	Johnnys Fresh Market	groceries and supplies	4,140.81
03/03/2010	10112898661	Johnnys Fresh Market	consumable kitchen supplies	9.71
09/03/2010	10014	North Star Air Ltd.	groceries	69.79
09/03/2010	10112908447	Johnnys Fresh Market	groceries and supplies	1,871.28
09/03/2010	10112908446	Johnnys Fresh Market	grocery refund	-9.80
10/03/2010	10112910029	Johnnys Fresh Market	groceries	123.96
10/03/2010	10112909994	Johnnys Fresh Market	groceries	63.99
11/03/2010	159	Diamond Blades	4 diamond blades	1,415.30
11/03/2010	10045	North Star Air Ltd.	transportation and fuel	328.00
15/03/2010	328-10	Outland Camps	Feb charges for camp manager and personnel	29,361.40
15/03/2010	BF-51628	Bradley Bros. Limited	drilling of 36 holes March 1-15, 2010	89,648.05
16/03/2010	10112919516	Johnnys Fresh Market	groceries	1,533.23
17/03/2010	IN167278	Wasaya Airways	flight to LH	317.00
18/03/2010	1003180012	Victoria Inn - Thunder Bay	Accommodation etc for Don B	568.30

Total Camp
Drilling

Date	Invoice Number	Contractor	Details	Amount
18/03/2010	14574322	Manitoulin Transport	transport of pails , lids, core boxes etc.	904.59
19/03/2010	March 2010	Hydro One Remote Communities	core shack hydro	29.30
19/03/2010	10006	North Star Air Ltd.	transport of supplies and fuel	24,419.10
19/03/2010	10138	North Star Air Ltd.	purchase of fuel & supplies	414.43
19/03/2010	10007	North Star Air Ltd.	transportation & purchase of fuel	3,704.56
20/03/2010	IN167506	Wasaya Airways	excess baggage fee	70.35
22/03/2010	408217862	The North West Company	groceries	49.02
22/03/2010	408217918	The North West Company	groceries	19.45
22/03/2010	408217919	The North West Company	supplies	34.54
23/03/2010	00003601	Forest Helicopters Inc	23 drums of fuel at \$316.75 per drum	7,285.25
23/03/2010	433	Sigfusson Northern	transportaion of dozer	3,250.00
23/03/2010	13251104	Manitoulin Transport	transport of saw	141.56
24/03/2010	10153	North Star Air Ltd.	accomodation	89.25
25/03/2010	408218435	The North West Company	groceries	151.76
25/03/2010	10170	North Star Air Ltd.	purchase of supplies	18.69
25/03/2010	011986	Dominic Moonias	gas	210.00
26/03/2010	00003609	Forest Helicopters Inc	flight time and fuel charges	76,049.80
27/03/2010	408218714	The North West Company	groceries	331.31
29/03/2010	10211	North Star Air Ltd.	purchase of supplies	2,282.82
29/03/2010	10207	North Star Air Ltd.	paid Blair Scott for 13 days	3,737.50
29/03/2010	10204	North Star Air Ltd.	supplies for core saw	116.27
30/03/2010	2010-03-001	Donald R Boucher	Contract fees	15,500.00
30/03/2010	3	Matthew Sooley	Contract fees	3,250.00
30/03/2010	302	Fitzpatrick & Partners	wages for drilling	1,200.00
30/03/2010	00002610	Forest Helicopters Inc	fuel transportaion	1,429.56
31/03/2010	March 2010	WSIB	WSIB exp - March 2010	1,200.00
31/03/2010	March 2010	Tom Hart - Exp	core saw rental	2,418.12
31/03/2010	March 2010	Matt Sooley - Exp	supplies for core saw & pails	908.11
31/03/2010	Mar-2010-TPK	Thomas Morris	phone and internet service for camp	568.25
31/03/2010	NFN010-2009-10	Neskantaga First Nation	core shack rental for march 2010	2,600.00
31/03/2010	NSR-003	Neskantaga First Nation	grader and sleigh - Mar 15 and 16	5,600.00
31/03/2010	Mar-2010-TPK	Don Boucher - Exp	transport and sustenance for TPK	2,196.02
31/03/2010	BF-51642	Bradley Bros. Limited	drilling expense - March 16-31	80,711.85
31/03/2010	00003611	Forest Helicopters Inc	transportaion - Mar 27-Apr 2	21,490.02
31/03/2010	338-10	Outland Camps	camp manager & cooks for March 2010	28,858.00
31/03/2010	10143	North Star Air Ltd.	transportaion and fule purchase	20,581.97
31/03/2010	10261	North Star Air Ltd.	transportation - de-mob	3,606.00
31/03/2010	10264	North Star Air Ltd.	de-mob	3,868.72
31/03/2010	4868054	Roadpost	satelite phone	124.75
31/03/2010	0310177	Overburden Drilling Management Ltd.	consulting services & equip rental	45,914.24
01/04/2010	237135	Victoria Inn - Thunder Bay	Don Boucher	102.99
01/04/2010	25422	Nakina Air Service	don's flight on march 6	214.29
01/04/2010	408219359	The North West Company	groceries	31.05
01/04/2010	408219358	The North West Company	camp maintenance	972.50
12/04/2010	1812	Star Tek Satellite	wireless router, internet dish etc.	417.96
21/04/2010	00145440	Exploration Services	consumable supplies	99.74
21/04/2010	April 2010	Hydro One Remote Communities	core shack hydro	29.15
23/04/2010	10455	North Star Air Ltd.	groceries for camp	1,071.77
26/04/2010	1004260001	Victoria Inn - Thunder Bay	Don Boucher	108.14
28/04/2010	IN170689	Wasaya Airways	Don Boucher - Pickle lake to Th Bay	436.00
30/04/2010	Exp-Apr-TPK	Don Boucher - Exp	transport etc to/from project site	2,070.79
30/04/2010	Exp-Apr2010	Tom Hart - Exp	supplies for saw	140.30
30/04/2010	2010-04-001	Donald R Boucher	contract fees	12,632.50
30/04/2010	00145803	Exploration Services	reprographic services for April 2010	24.30
30/04/2010	4988916	Roadpost	satellite phone service	53.95
30/04/2010	BF-51713	Bradley Bros. Limited	April 2010 stand by charges	12,000.00
30/04/2010	Apr-2010-MNP	Meyers Norris Penny	FN workers camp maint & clean up	11,289.00
30/04/2010	April 2010	WSIB	WSIB Expense for April 2010	1,403.36
10-May-10	410196	Overburden Drilling Management Ltd.	consulting services	\$28,867.78
07-Jun-10	510209	Overburden Drilling Management Ltd.	data interpretation	\$4,581.00
05-Jul-10	610234	Overburden Drilling Management Ltd.	data interpretation	\$4,400.00
05-Jul-10	610233	Overburden Drilling Management Ltd.	data interpretation	\$5,355.00
31-Jul-11	710004	Overburden Drilling Management Ltd.	report generation	\$2,420.13
31-Aug-11	810034	Overburden Drilling Management Ltd.	report generation	\$4,470.00
30-Sep-11	910070	Overburden Drilling Management Ltd.	report generation	\$8,040.00
31-Oct-11	1010093	Overburden Drilling Management Ltd.	report generation	\$14,415.26
Total Drilling				\$ 920,114
Geology (wages)				
program preparation and				
program support				
29/01/2010	00142768	Exploration Services	map reproduction	97.20
31/01/2010	Jan 2010	Steve vanHaafden	Jan 2010 Contract Fees	4,340.00
31/01/2010	1 - Jan 2010	Matthew Sooley	Jan 2010 Contract Fees	3,182.50
31/01/2010	Jan 2010	Thomas Hart	Jan 2010 Contract Fees	2,550.00
31/01/2010	Jan 2010	WSIB	WSIB exp - Jan 2010	644.64
26/02/2010	Feb 2010	Steve vanHaafden	contract fees	1,085.00
28/02/2010	Feb 2010	WSIB	WSIB expense	69.44
30/03/2010	March 2010	Steve vanHaafden	Contract fees	3,410.00
31/03/2010	March 2010	WSIB	WSIB exp - March 2010	218.24
30/04/2010	April 26, 2010	Matthew Sooley	contract fees	3,685.00
30/04/2010	April 26, 2010	Steve vanHaafden	contract fees	3,410.00
30/04/2010	April 26, 2010	Thomas Hart	contract fees	5,610.00
30/04/2010	April 2010	WSIB	WSIB Expense for April 2010	218.24
Total Geology				\$ 28,520
Site Access				

	<u>Date</u>	<u>Invoice Number</u>	<u>Contractor</u>	<u>Details</u>	<u>Amount</u>
and trail maintenance	04/01/2010	408201881	The North West Company	groceries	39.17
	04/01/2010	408202275	The North West Company	groceries	11.38
	04/01/2010	408201652	The North West Company	milk	10.63
	04/01/2010	408201011	The North West Company	groceries	51.17
	14/01/2010	IN162416	Wasaya Airways	Don B - Th Bay to LH	158.50
	26/01/2010	IN163258	Wasaya Airways	Don's flight - T Bay to L House	158.50
	27/01/2010	21983 & 4	Nakina Air Service	two flights for winter trail cutting crew	704.76
	27/01/2010	408208982	The North West Company	gas	126.00
	27/01/2010	408209016	The North West Company	groceries	748.19
	27/01/2010	408209056	The North West Company	groceries & supplies	28.01
	27/01/2010	408209017	The North West Company	gas & oil	63.98
	28/01/2010	408209098	The North West Company	gas and oil	38.67
	29/01/2010	408209337	The North West Company	supplies for crew	137.67
	29/01/2010	408209416	The North West Company	2 phone cards	16.20
	30/01/2010	408209610	The North West Company	groceries & supplies	355.22
	09/02/2010	Jan 31,2010	Outland Camps	advance payment for crew for winter camp	2,130.00
	09/02/2010	286	Fitzpatrick & Partners	winter road - trail	14,392.12
	09/02/2010	admin-009-2009/10	Neskantaga First Nation	admin fee for Feb 2010 per EEBA agreement	3,500.00
	10/02/2010	IN164558	Wasaya Airways	Don's flight from LH to T Bay - feb12	158.50
	18/02/2010	IN165118	Wasaya Airways	Tom M flight from LH to T Bay - Feb 18	158.50
	19/02/2010	IN165189	Wasaya Airways	Don B - flight to L House	158.50
	20/02/2010	2010-NEDC-0086	Neskantaga Economic Development Corp.	accommodations	4,036.00
	23/02/2010	287	Fitzpatrick & Partners	winter road - trail	8,385.75
	28/02/2010	Feb 2010 Exp	Thomas Morris	equipment supplies for groomer	4,289.70
	28/02/2010	NSR-001	Neskantaga First Nation	grader and groomer operators	63,732.50
	28/02/2010	2010-NEDC-0084	Neskantaga Economic Development Corp.	truck rental and accommodations	20,803.36
	28/02/2010	00003594	Forest Helicopters Inc	transport of supplies and equip	36,274.82
	02/03/2010	NSR-002	Neskantaga First Nation	road grading & grooming	7,180.00
	03/03/2010	10009	North Star Air Ltd.	Carter Rice - road consulting	1,725.00
	12/03/2010	10047	North Star Air Ltd.	Carter Rice - ice consulting	1,725.00
	15/03/2010	328-10	Outland Camps	ice road construction costs	9,133.00
	18/03/2010	10120	North Star Air Ltd.	repairs on the groomer	1,331.07
	30/03/2010	302	Fitzpatrick & Partners	winter road - trail	4,614.00
Total Site Access					<u>\$ 186,376</u>
Total - TPK					\$ 1,351,544

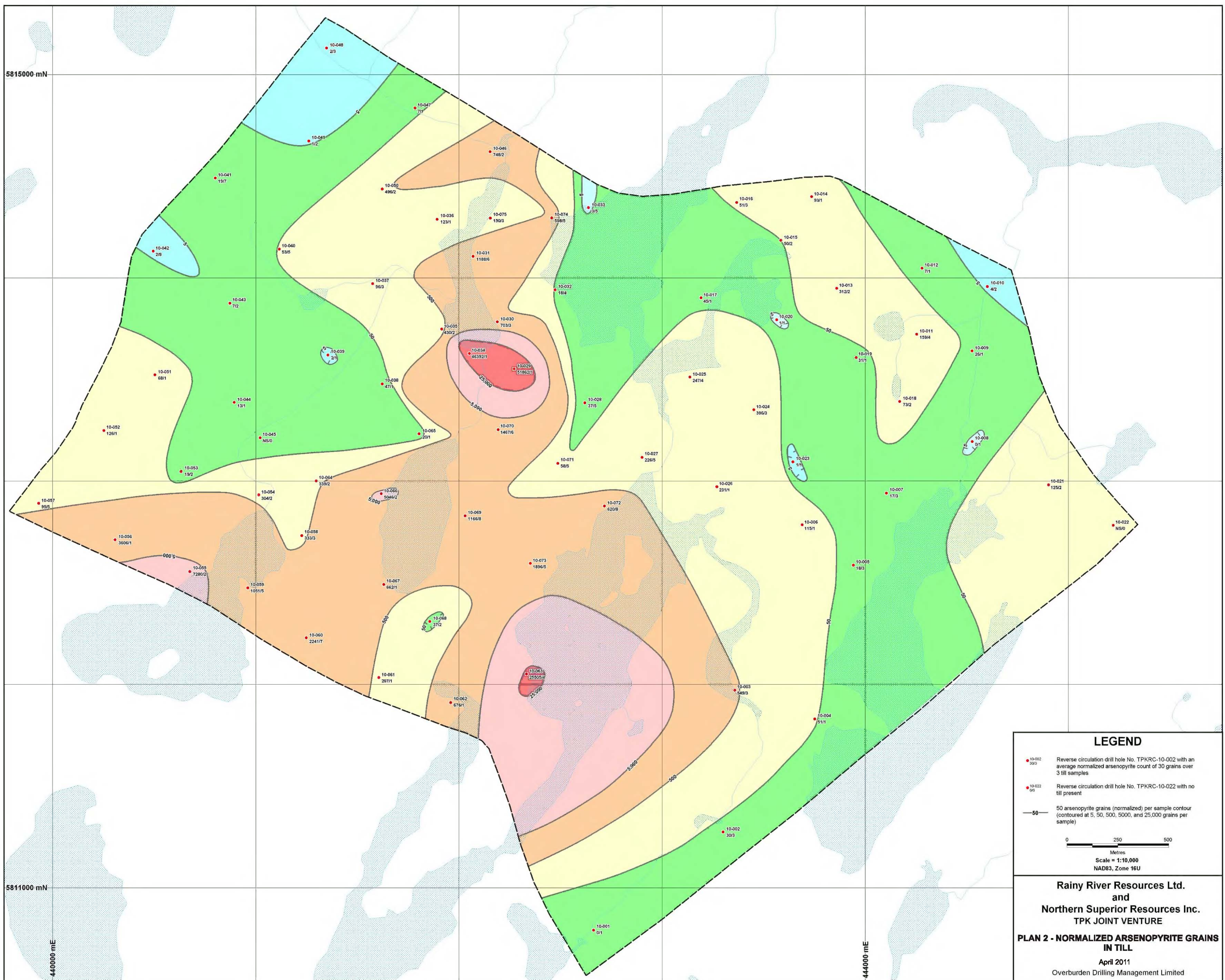


LEGEND

- 10-002 4/3 Reverse circulation drill hole No. TPKRC-10-002 with an average normalized gold count of 4 grains over 3 till samples
- 10-022 2/0 Reverse circulation drill hole No. TPKRC-10-022 with no till present
- 60— 60 gold grains (normalized) per sample contour (contoured at 10, 20, 40, 60, 100 and 140 grains per sample)

0 250 500
 Metres
 Scale = 1:10,000
 NAD83, Zone 16U

Rainy River Resources Ltd.
and
Northern Superior Resources Inc.
 TPK JOINT VENTURE
PLAN 1 - NORMALIZED GOLD GRAINS IN TILL
 April 2011
 Overburden Drilling Management Limited



LEGEND

- 10-002 309/2
 Reverse circulation drill hole No. TPKRC-10-002 with an average normalized arsenopyrite count of 30 grains over 3 till samples
- 10-022 00
 Reverse circulation drill hole No. TPKRC-10-022 with no till present
- 50
 50 arsenopyrite grains (normalized) per sample contour (contoured at 5, 50, 500, 5000, and 25,000 grains per sample)

0 250 500
Metres
Scale = 1:10,000
NAD83, Zone 16U

**Rainy River Resources Ltd.
and
Northern Superior Resources Inc.
TPK JOINT VENTURE**

**PLAN 2 - NORMALIZED ARSENOPIRYTE GRAINS
IN TILL**

April 2011
Overburden Drilling Management Limited