

# GM 65863

PROPERTY VISIT, KAPIWAK PROJECT

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THE KAPIWAK PROJECT,  
QUEBEC, CANADA  
- PROPERTY VISIT -  
  
KAPIWAK PROJECT

REÇU AU MRPF

03 AOUT 2011

Direction du développement minéral

Presented to  
Rock Teck Resources Inc.

By  
Sylvain DESBIENS, geologist

IOS Services Géoscientifiques inc.

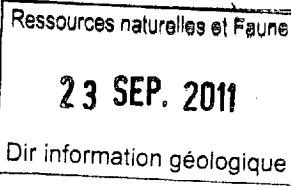
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GM65863

Ville de Saguenay

October 6<sup>th</sup>, 2009



THE KAPIWAK PROJECT - PROPERTY VISITING REPORT -  
ROCK TECH RESOURCES INC.

EXECUTIVE SUMMARY

Rock Teck Resources Inc. obtained in 2009 mining exploration rights on a group of 119 map designed cells covering approximately 62.88 km<sup>2</sup> (**map 1**) in James Bay, Quebec. The property covers part of the Kapiwak Pluton and its northern bordering meta-sedimentary country rocks. It is located south of the Eastmain River and it is bounded by the longitudes 76° 56' 0" and 77° 9' 30" west and latitudes 52° 8' 0" and 52° 13' 41" north. Following a short visit in July 2009, this report provides an insight into the Kapiwak property.

Significant pegmatite spodumene dykes (Cyr-Lithium prospect) related to the Kapiwak pluton are found just north of the property. The aims of this project is to check for possible other spodumene-rare metals deposits associated to that pluton. Spodumen pegmatite boulders found in the northern part of the Kapiwak property incite to detail prospecting.

RÉSUMÉ

Rock Teck Resources Inc. a acquis en 2009 les droits d'exploration minière sur un groupe de 119 cellules localisées à la Baie-James. Cette propriété, d'une superficie de 62,88 km<sup>2</sup> (**carte 1**), couvre une partie du pluton de Kapiwak et de son contact avec un encaissant méta-sédimentaire au nord. Elle est située au sud de la rivière Eastmain, entre les longitudes 76° 56' 0" et 77° 9' 30", et entre les latitudes 52° 8' 0" et 52° 13' 41". Ce rapport survole la propriété Kapiwak à la suite d'une courte visite effectuée en juillet 2009.

De nombreux filons de pegmatites à spodumene (prospect de Cyr-Lithium) reliés au pluton de Kapiwak sont présents juste au nord de la propriété de Rock Teck Resources Inc. Le projet vise à vérifier l'existence potentielle d'autres dépôts de pegmatites à spodumene et de métaux rares associés au pluton de Kapiwak. La présence de blocs de pegmatite à spodumene dans la partie nord de la propriété de Kapiwak incite à une prospection détaillée.

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## INTRODUCTION

This report provides a short insight on the Kapiwak property in James Bay (**figure 1**). The property was shortly visited July 6 and 8, soon after its registration in 2009.

## THE KAPIWAK PROPERTY

The Kapiwak property is constituted of 119 map designed cells covering 62.88 km<sup>2</sup> (**map 1**). It is largely contained in the SNRC 33C/03, but it slightly overlaps north-western part of SNRC 33C/02. It is bounded by longitudes 76° 56' 0" and 77° 9' 30" west and latitudes 52° 8' 0" and 52° 13' 41" north. That property was first registered to Gene Leong of Spectra Capital Group Inc. in Calgary, then transferred to Rock Tech Resources Inc. which now held 100 % interest in the project.

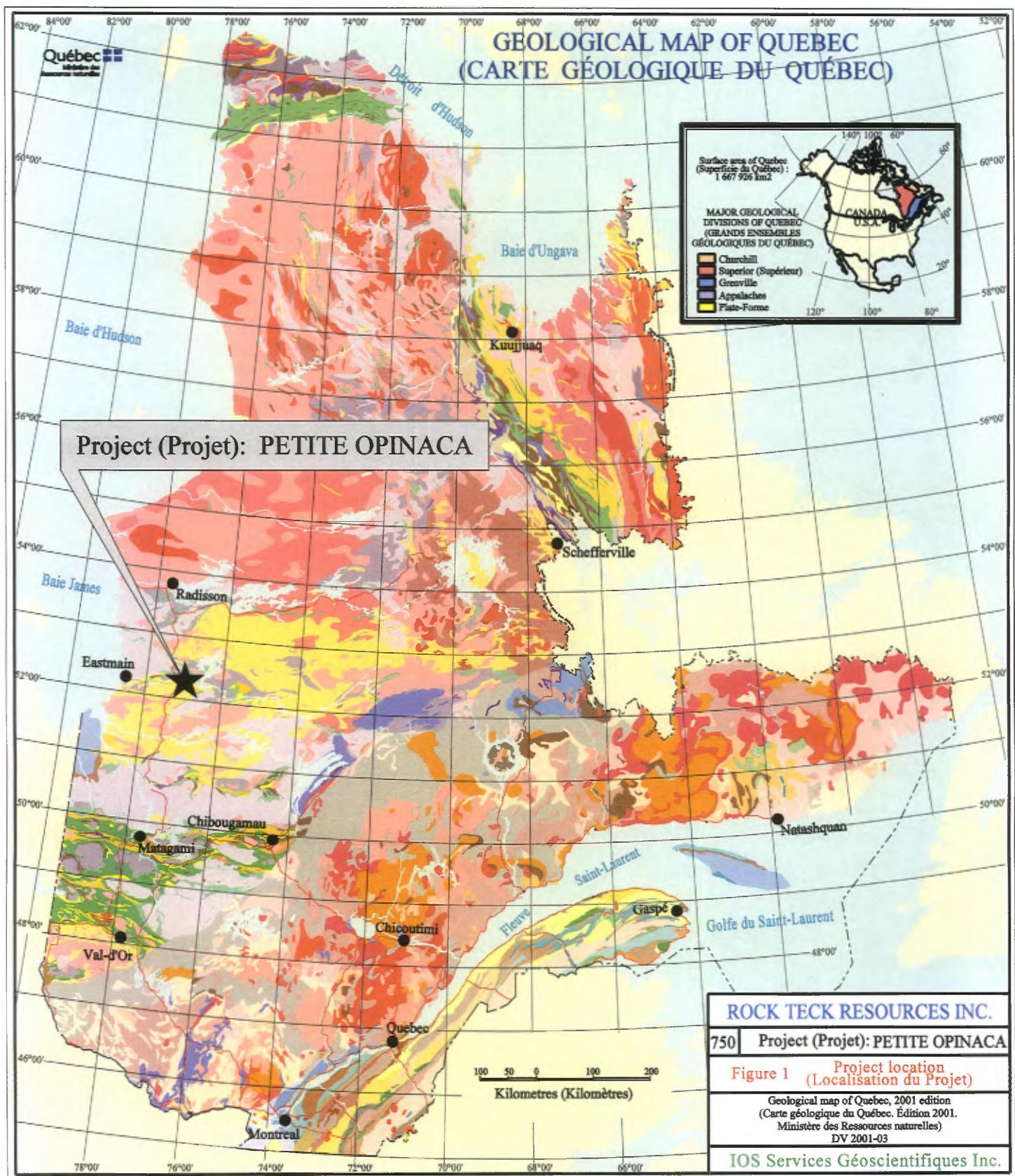
The Matagami-Radisson James Bay road cross the northern part of the property. The remaining parts of the property is accessible by walks in lands recently affected (2005) by a forest fire. The Société de la Baie James km 381 truck stop is located 1 km north of the property.

## PROPERTY GEOLOGY

The Kapiwak property is located over the Archean Lower-Eastmain Group, constituted of volcano-sedimentary formationnal units and ultramafic to felsic intrusives. Felsic intrusives of the Kapiwak pluton represent about 65-70% of the property surface area (**map 2**). These felsic rocks intruded paragneiss, sandstone and conglomerate. Younger rocks are restricted to a Proterozoic diabase dyke. The northern part of the property is covered by glacial and post-glacial materials

### The Kapiwak Pluton

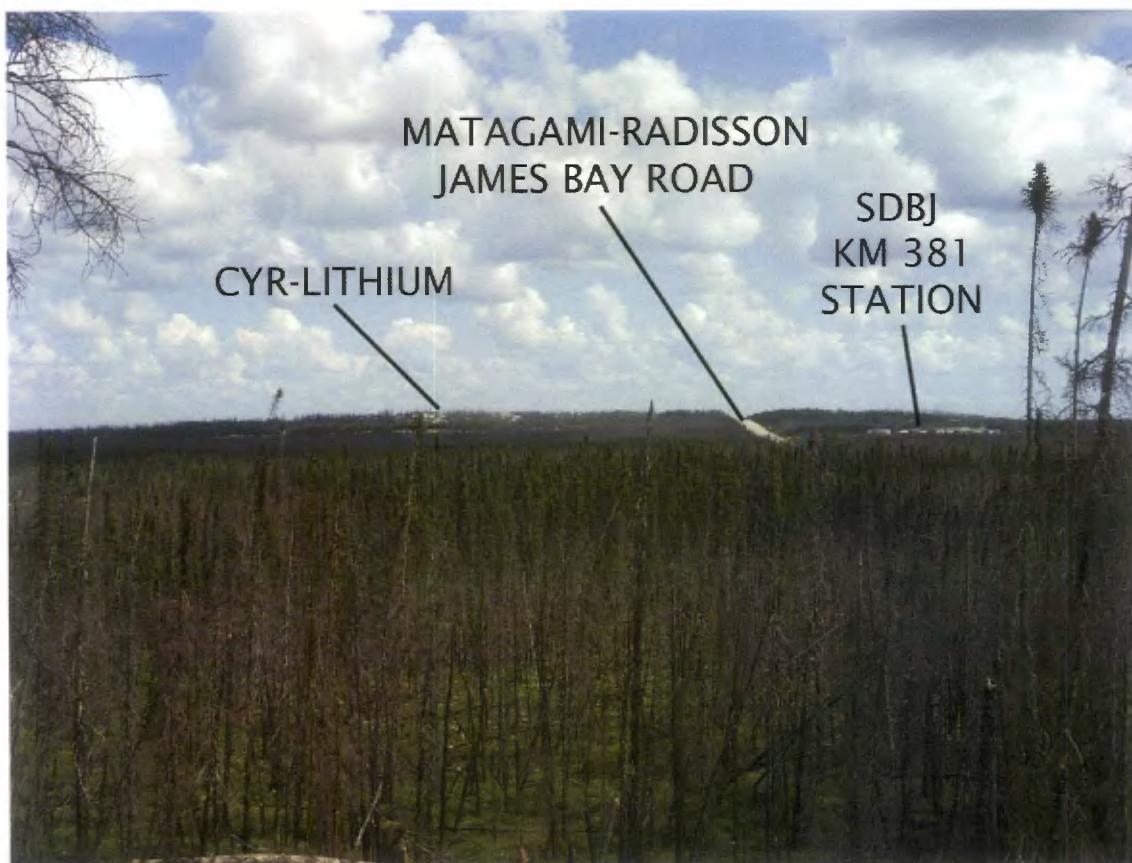
The Kapiwak Pluton includes tourmaline-muscovite pegmatites, granodiorites, monzonites, and spodumene pegmatites (Mouhkhil et al. 2001).



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Tourmaline and muscovite pegmatites and coarse grained granodiorites constitute the largest part of the Kapiwak property, where these lithologies cover about 65% of its total superficy in its southern part. This major part of the property was mapped as white pegmatites with paragneiss enclaves by Franconi (1978; DPV 574). Paragneiss and volcanosedimentary country rocks of the Auclair Formation constitute the remaining northern part of the Kapiwak property.

The Cyr-Lithium spodumene permatite swarm fringes the northern limit of the Kapiwak property (**figure 2**). Monzonites occur south-east of that later. The spodumene pegmatite dyke swarm of the Pontax River Project (Ressources Sirios Inc.), some 20 km south of the Kapiwak Project (cf. Furic and Girard 2007; GM 63046), is possibly also related to the Kapiwak Pluton.



**Figure 2:** View toward the north from the center of the Kapiwak property.

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**Auclair Formation**

The northern part of the property is mainly constituted of fine grained paragneiss assigned to the Auclair Formation by Mouhksil et al. (2001). Enclaves of these paragneiss are common within the pegmatites of the central and southern parts of the property. North of the Kapiwak property, pegmatites of the Cyr-Lithium deposit intrude these paragneiss.

The northern part of the Kapiwak property shows very few outcrops. It is a marshy lowland bordering to the south the east-west Cyr-Lithium bearing pegmatite area, that later forming a crest north of km 381 truck stop perpendicular to the Radisson-Matagami James Bay Road.

**Komo Formation**

Amphibolites and metabasalts assigned to the Komo Formation have been mapped in the north-eastern corner of the Kapiwak property, with some gold occurrences reported by Ressources D'Arienne inc. just north of that later.

**Unassigned sediments**

An outcrop zone centered on UTMs 358215E/5786714N shows coarse grained sandstones and polymict conglomerates. These undeformed sediments are crossed by a magnetite gabbro dyke. They may represent a coarse grained facies of the Auclair Formation, but supplementary field work is needed to establish their formational relationship.

**Diabase dyke of the Matachewan swarm**

The center of the Kapiwak property is crossed by a nearly N-S diabase dyke of the Matachewan swarm.

**WORK PERFORMED**

Parts of the Kapiwak property were quickly visited July 5 to 9 in 2009:

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- Tourmaline and muscovite pegmatites along a WSW-ENE outcropping zone have been walked and sampled in the center of the property. These pegmatites are typically coarse grained with some aplitic bands containing some small bluish beryls. No spodumene was observed, but these rocks need to be examined in more details.
- The southern parts of the property contains muscovite and tourmaline pegmatites, as coarse granodiorite. Some small bluish beryls have been observed. No spodumene was noted.
- The northern part of the property was examined along the Radisson-Matagami road and from short traverses each sides of it. There is no outcrops pertaining to the property along that road, but spodumene pegmatite boulders have been noted and sampled. Similar spodumene pegmatite boulders were also found east of that road. These boulders could potentially come from undiscovered lithium bearing pegmatite dykes from the non-outcropping northern part of the Kapiwak property, or from the Cyr-Lithium deposit further north. Five old digs realized by mechanical means were localized during our short investigations in that sector (**table 1**). These 1-3 metres deep digs do not seem to have touched the bedrock. Three of these digs are located on a slightly elevated ridge with a large sedimentary outcrop at its northern end.

DIG NUMBER	UTMx	UTMy
1	357584	5786717
2	357805	5786528
3	357919	5786509
4	357969	5786540
5	358052	5786592

*Table 1: Location of old digs in the northern part of the property.*

A total of 27 samples were collected (**map 2** and **appendix 1**), mainly from different types of pegmatite, for chemical characterization, 14 from outcrops and 13 from boulders.

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**ANALYTICAL PROTOCOL**

Pegmatite samples have been analysed by the SGS laboratories in Toronto, using the ICP-MS after a sodium peroxide fusion ICM90A method (**appendix 2**). Sodium peroxide fusion is needed to achieve a total dissolution of the rock. ICM90A is a 55 elements package that includes Be, Cs, Li, Mo, Nb, Rb, Sn, Ta, W and many others light rare earth elements. Detailed analytical procedure used by SGS has not been provided to the authors. Certificates of analysis are provided in **appendix 4**.

**Analytical quality control**

The quality control of analysis implied the following protocol:

- ❖ Insertion by IOS of the reference certified NCS DC73335 standard (**appendix 3, table 1**) produced by SYLAB (SYstèmes de LABoratoires in France). The base content of this synthetic silicate standard is  $\text{SiO}_2$  72%,  $\text{Al}_2\text{O}_3$  15%,  $\text{Fe}_2\text{O}_3$  4%,  $\text{CaMg}(\text{CO}_3)_2$  (pure dolomite) 4%,  $\text{Na}_2\text{SO}_4$  2.5%,  $\text{K}_2\text{SO}_4$  2.5%, stoved at 950°C. It contains 0.101 +/- 0.003% Li.
- ❖ Insertion by IOS of an internal reference material, MRIMIL06 (**appendix 3, table 2**). MRIMIL06 is an homogenized heavy rich natural mineral concentrate to which Niobec pyrochlore ( $\text{Nb}_2\text{O}_5$ ) from St-Honoré-de-Chicoutimi have been added.
- ❖ A total of 5 quartz placebos were inserted by IOS, which were contaminated at 0.54% FeO by pulveriser (**appendix 3, table 3**) in order to measure the laboratory contamination and to test memory effects. This quartz is from the "Lac Bouchette" high purity quartz vein, laboratory cleaned and soaked in oxalic acid to remove any iron staining. Thousands of analyses are available to the authors with numerous methods and laboratory. This material can be considered as a certified blank.

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- ❖ Some of the analyses were re-run by ICM90A by SGS. These replicates allow the estimation of the instrumental stability (**appendix 3, table 4**).

**ASSAY RESULTS**

**Tables 2 and 3** provides an overview of the analytical results for the spodumene pegmatite boulders from the northern part of the Kapiwak property and for the tourmaline and muscovite pegmatite outcrops from the central and southern part of the property.

**Spodumene pegmatite boulders of the northern part of the property**

The highest lithium content was obtained from boulder 74790432 (2.90% Li<sub>2</sub>O), at the margin of the old exploration pit number 2. This spodumene pegmatite boulder, in which small bluish beryls was observed, contains 151 ppm Be and 80 ppm Nb. Anomalous 116-253 ppm Be content was also found in the spodumene pegmatite boulders collected along the James Bay road (samples 74790406 to 74790409).

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Assay n°	Field n°	UTMx	UTMy	Li (ppm)	Li <sub>2</sub> O (%)	Be (ppm)	Nb (ppm)	Ta (ppm)	Description
74790406	747-3	356858	5786459	6110	1.31	161	73	21.4	Sub-angular spodumene pegmatite boulder, 20x25 cm, White feldspars 65%, Qz 20%, muscovite 10-12%, pale green up to 7-8 cm spodumene crystals 3-5%, tr. of small blue-green beryl. East side of James Bay road.
74790407	747-4	356859	5786471	6780	1.46	116	37	6.3	Spodumene pegmatite boulder, 75% albite and K-feldspars, 15% Qz, 5% apple green spodumene (up to 8-10 cm), 5% muscovite. Close to 747-3.
74790408	747-5	356855	5786467	6390	1.37	253	51	13.5	Sub-angular spodumene pegmatite boulder, 35x25x25 cm, 75% white to pinkish feldspars, 15% Qz, 7% apple up to 10 cm green spodumene, 2% muscovite, 1% pinkish garnet, tr. of beryl. Close to James Bay road.
74790409	747-8	357509	5786816	3890	0.84	249	79	50.7	Sub-angular spodumene pegmatite boulder, 10x10x10 cm, white to grey feldspars 90% with 5% Qz, 3-5% spodumene, 1% biotite and muscovite, 1% ind. dark mineral, tr. to locally 1% small blue-green beryls. Close to James Bay Road.
74790429	747-36	357586	5786722	4410	0.95	77	63	49.8	Angular spodumene pegmatite boulder, 25x25x15 cm, 55% feldspars, 28% QZ, 7-8% pale to dark green spodumene, 1% muscovite, tr. of blue-green beryl. Close to old exploration pit n° 1.
74790432	747-39	357805	5786528	13500	2.90	151	80	20.8	Sub-angular spodumene pegmatite boulder, 20x20x13 cm, Qz 40%, feldspars 35%, with 20-25% pale green to whitish spodumene (up to 10 cm crystals) and 2% muscovite. At the margin of old exploration pit n° 2.

Table 2: Some data on spodumene pegmatite boulders from the northern part of the Kapiwak property.

Muscovite-tourmaline pegmatite outcrops of the central and southern parts of the property

Different lithologies have been sampled for chemical characterization in the muscovite-tourmaline pegmatites of the central and southern part of the property. Some samples provided anomalous content in rare metals including lithium (**table 3**), supporting a genetic relationship of these pegmatitic intrusives with the spodumene pegmatites of the Cyr-Lithium prospect, together included in the Kapiwak Pluton by Mouhkhil et al. (2001). In particular, the muscovite appears to be locally enriched in rare metals. As example, a sampled pod of pure muscovite (sample 74790416) provided 6200 ppm Rb, 488 ppm Cs, 130 ppm Li, 142 ppm Nb and 95 ppm Ta.

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Assay #	Field #	UTMx	UTMy	Li (ppm)	Be (ppm)	Nb (ppm)	Ta (ppm)	Description
74790412	747-13	359070	5784275	80	<5	9	1.5	Aplitic zone in contact with tourmaline pegmatite, with about 40% feldspars, 40% quartz, 19% muscovite and 1% pinkish garnet.
74790414	747-14	360188	5784153	150	<5	8	<0.5	Metric large pod of Qz (60%)-muscovite (25%) and feldspars (15%). Accessory tourmaline.
74790416	747-16	359718	5784118	130	18	142	94.5	25-30 cm pod of muscovite (100%) in a 90% Qz large lense.

*Table 3: Samples from the muscovite-tourmaline pegmatites of the central part of the Kapiwak property showing low anomalous Li content.*

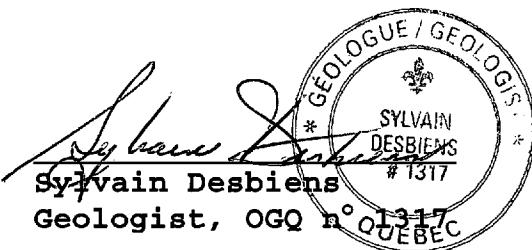
#### CONCLUSIONS AND COMMENTS

- Rare metal lithium bearing pegmatites, including the Cyr-Lithium prospects, are associated to the Kapiwak pluton.
- The Rock Tech Resources Kapiwak property covers a large superficy of the northern part of the Kapiwak Pluton, south of the Cyr-Lithium prospects.
- Spodumene pegmatite boulders grading up to 2.9% Li<sub>2</sub>O are found in the northern parts of the Kapiwak property.
- Potential sources for the above mentioned spodumene pegmatite boulders could be from a non outcropping land area southern-fringing the Cyr-Lithium deposits, or/and from the Cyr-Lithium pegmatite dyke swarm.
- A systematic exploration program of the Kapiwak property is recommended, with higher priority on its northern part.
- Although geophysical tools are often of limited used in the exploration for rare metal pegmatites, such tools will have nevertheless to be tested on the non-outcropping more prospective northern part of the property. A geophysical survey will have to focus on eventual different resistivity signals between the pegmatite bodies and their fine grained paragneiss hosts.

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**RECOMMANDATIONS**

- A first two weeks exploration program consisting of ground prospecting is recommended on the Kapiwak Property. Such work would permit to complete the property evaluation. It should consist of:
  - Systematic covering of the mainly non-outcropping northern part of the property for boulders and search for outcrops;
  - Systematic covering of the outcropping middle and southern parts of the property for spodumene pegmatite indices.
- Despite potential limited usefulness, a ground resistivity-IP survey combined with a magnetometer survey shall be tested on the northern non-outcropping part of the property.
- Possibility of new exploration trenchings in the sector of the property where old pits and spodumene bearing pegmatite boulders were found have to be evaluated.



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CITED REFERENCES

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- MOUKHSIL, A., VOICU, G., DION, C., DAVID, J., DAVIS, D.W. & PARENT, M., 2001. Géologie de la région de la Basse-Eastmain centrale (33C/03, 33C/04, 33C/05 et 33C/06). Ministère des Ressources naturelles du Québec, RG 2001-08.
- FURIC, R. et GIRARD, R, 2007. Campagne d'exploration et de cartographie dans le secteur de la rivière Pontax moyenne Baie-James, Québec. Projet Pontax. Ministère des Ressources naturelles et de la faune du Québec, GM 63046.

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**APPENDIX 1**

**SAMPLE LOCATION AND DESCRIPTION**

PROJECT NUMBER	SAMPLE	UTMX (nad 27)	UTMY (nad 27)	ELEVATION (m)	NOTES ET COMMENTAIRES
Nb Analyses: 27					
747	74790404	357099	5786650	224	Angular tourmaline pegmatite boulder, 40x25 cm, 75% white feldspars, 15% Qz, 5% tourmaline, 5% muscovite, small rusty zones. West of James Bay road.
747	74790405	357117	5786621		Sud-rounded pegmatite boulder, 40 cm, white feldspars 73%, biotite 20%, muscovite 2-4%, quartz 2-4%, Tr-1% apatite?
747	74790406	356858	5786458		Sub-angular spodumene pegmatite boulder, 20x25 cm, white feldspars 65%, Qz 20%, muscovite 8-10%, pale green up to 7-8 cm spodumene crystals 3-5%, Tr. of small blue-green beryl. East side of James Bay road.
747	74790407	356859	5786471		Spodumene pegmatite boulder, 75% albite and K-feldspars, 15% Qz, 5% apple green spodumene (up to 8-10 cm), 3-5% muscovite. Close to 747-3.
747	74790408	356855	5786467		Sub-angular spodumene pegmatite boulder, 35x25x25 cm, 75% white to pinkish feldspars, 15% Qz, 5-7% up to 10 cm apple green spodumene, 2% muscovite, 1% pinkish garnet, Tr. of beryl.
747	74790409	357509	5786816	218	Sub-angular spodumene pegmatite boulder, 10x10x10 cm, white to grey feldspars 90% with 5% Qz, 3% spodumene, 1% biotite and muscovite, 1% ind. dark mineral, Tr. to locally 1% small blue-green beryls.
747	74790410	357284	5786724		Nearly angular large 75x50x60 cm pegmatite boulder, 75% white feldspars, 15% biotite and muscovite, 9% Qz, accessory small beryls and reddish garnet.
747	74790411	357201	5788697	221	Very angular large 1.5x1x1 m pegmatite boulder, 50% Qz, 40% white feldspars, 10% biotite and muscovite, Tr. of blue-green small beryls, accessory needle tourmaline. With a 25x15 cm enclave of paragneiss.
747	74790412	358070	5784275		Aplitic zone in contact with tourmaline pegmatite, with about 40% feldspars, 40% quartz, 18% muscovite and 1% pinkish garnet. Test.
747	74790414	360188	5784153		From a metric large pod of Qz (60%)-muscovite (25%) and feldspars (15%). Accessory tourmaline.
747	74790415	358909	5784216	244	From a 20 cm tourmaline rich pegmatite band, 49% feldspars, 25% QZ, 20% tourmaline, 5% muscovite, 1% pinkish garnet, Tr. of 1-3 mm blue green beryls.
747	74790416	359718	5784118	240	From a 25-30 cm pod of muscovite (100%) in a 90% Qz large lenses.
747	74790417	359156	5784049	258	Pegmatite, contact of a Cz-tourmaline band with an aplitic layer.
747	74790418	358974	5784293	226	Finely grained pegmatite with 10-15% pinkish small garnet, 60-63% feldspars, 25% Qz, 2% muscovite.
747	74790419	358619	5784398	208	Coarse grained pegmatite, 75% white feldspars, 20% Qz, 5% muscovite.
747	74790420	358445	5784354	210	Massive magnetite gabbro intruding paragneiss.
747	74790421	358204	5784336	210	Pegmatite, very fine grained aplitic zone, about 2-3% muscovite, 2% tourmaline, 1% pinkish garnet, close to 1% tiny blue-green beryl crystals, the remaining being constituted of feldspars and quartz.
747	74790422	358123	5784278	214	From an aplitic layer with 7-8% small pinkish garnets, 1-2% tourmaline, 5% muscovite and traces of beryl. A 3 cm yellow tourmaline crystal observed at the contact with that aplitic layer.
747	74790424	353955	5784617	235	From a 50 cm "sub-aplitic" layer (2 mm crystal size). 67% feldspars, 23% quartz, 10% biotite and muscovite, 1% tourmaline, accessory small beryls.
747	74790426	353744	5784428	245	Tourmaline pegmatite.
747	74790427	354061	5784805	223	Pegmatite, aplitic band at contact with a paragneiss enclave. 60% feldspars, 33% quartz, 5% muscovite and biotite, 2% pinkish garnet.
747	74790428	356572	5777934	236	Granodiorite, 50% white feldspars, 40% quartz and 10% hornblende.
747	74790429	357586	5786722	218	Angular spodumene pegmatite boulder, 25x25x15 cm, 55% feldspars, 28% QZ, 10-12% pale to dark green spodumene, 1% muscovite, tr. of blue-green beryl. Close to old exploration pit #1.
747	74790430	357584	5786717	218	Angular pegmatite boulder, 50x50x30 cm, 73% feldspars, 24% myrmekitic quartz, 2% muscovite close to 1% small blue-green beryls. At the old exploration pit # 1.
747	74790431	357744	5786586	215	Large spodumene-pegmatite boulders, 125x85x80 cm, corners sub-rounded, feldspars 60%, Qz 27%, spodumene 8-10%, muscovite 3-5%, some tiny black specks.
747	74790432	357805	5786528	215	Subangular spodumene pegmatite boulder, 20x20x13 cm, Qz 43%, feldspars 35%, with 20% pale green to whitish spodumene (up to 10 cm crystals) and 2% muscovite. At the margin of old exploration pit # 2.
747	74790434	357919	5786509	218	Tourmaline pegmatite boulder, 75% feldspars, 12% Qz, 7-8% tourmaline, 5% muscovite. Margin of old exploration pit # 3.

THE KAPIWAK PROJECT - PROPERTY VISITING REPORT -  
ROCK TECH RESOURCES INC.

**APPENDIX 2**

**ICM90A ANALYSIS**

PROJECT NUMBER	SAMPLE	CERTIFICATE	DATE RECEIVED	ICM90A																											
				Al	Ba	Be	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Tl	V	Zn	Ag	As	Bi	Cd	Ce	Co	Cs	Dy	Er	
%	ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Nb Analyses: 27				0.01	0.6	5	0.01	10	5	0.01	10	5	0.01	10	5	0.01	5	0.1	0.01	5	1	30	0.1	0.2	0.1	0.5	0.1	0.05	0.05		
Compte Historique				637	636,0	638	637,00	637	637,00	637	637,00	637	637,00	637	637,00	637	636,0	637,00	637	628	636	637	637,0	637,0	637,0	637,0	637,0	637,00	637,00		
99 Percentile Historique				9.46	9612,5	320	5,79	0,66	3868	17,56	6,04	16828	4,37	9605	97	0,11	46	975,3	2,11	949	9143	10	30	104,6	24,1	926,5	155,0	378,9	22,13	15,50	
Moyenne Historique				8,81	316,8	98	0,74	181	146	1,34	3838	0,35	977	10	0,02	-1	73,0	0,11	45	257	-1	-26	5,4	1,0	30,9	6,4	96,4	1,75	0,78		
Écart-type Historique				2,18	1614,7	89	1,36	212	839	3,33	1,38	4500	1,13	1734	54	0,03	12	163,7	0,41	177	1172	2	12	18,8	4,4	162,3	27,1	84,4	3,86	2,74	
Maximum Historique				17,40	9990,0	888	10,80	2110	3880	18,70	7,74	19400	11,30	9970	935	0,36	76	1040,0	2,23	988	9700	12	40	118,0	26,4	1120,0	173,0	468,0	24,00	17,30	
Minimum Historique				-0,01	-0,5	-5	0,02	-10	-5	0,10	-0,01	-10	-5	-0,01	-5	-5	-0,1	-0,01	-5	-1	-30	-0,1	-0,1	-0,1	-0,5	-0,1	-0,05	-0,05			
Compte Projet				27	27,0	27	27,00	27	27	27,00	27	27,00	27	27,00	27	27,00	27	27,00	27	27	27,0	27,0	27,0	27,0	27,0	27,00	27,00	27,00			
Moyenne Projet				7,55	133,2	39	0,55	13	0	1,18	2,17	1548	0,21	724	13	0,08	-4	73,8	0,06	27	-1	-2	3,3	0,0	7,9	1,6	36,7	0,76	0,41		
Écart-type Projet				2,18	286,6	79	0,99	13	1	1,88	1,59	3261	0,58	1488	26	0,07	4	75,9	0,29	57	36	1	6	4,9	0,3	16,9	8,2	92,2	1,40	0,82	
Maximum Projet				17,40	1050,0	253	5,29	50	20	10,30	7,74	13500	2,83	7590	131	0,36	15	344,0	1,49	293	152	2	12	18,0	0,0	75,5	42,4	488,0	7,02	4,08	
Minimum Projet				4,12	1,6	-5	0,08	-10	-5	0,24	-0,01	-10	-5	-0,01	-5	-5	-0,2	-0,01	-5	-1	-5	-0,2	-0,2	0,3	-0,5	-0,1	-0,05	-0,05			
747	74790404	TO106784	2009-09-03	7,08	13,0	6	0,31	20	10	0,44	1,79	-10	0,03	190	7	0,06	-5	14,0	0,01	-5	15	-1	-5	0,3	-0,2	2,2	-0,5	8,7	0,27	0,14	
747	74790405	TO106784	2009-09-03	7,35	109,0	-5	0,94	20	5	0,73	2,22	10	0,09	140	-5	0,09	-5	154,0	0,01	-5	-5	-1	-5	6,0	0,3	3,7	0,7	2,2	1,04	0,52	
747	74790406	TO106784	2009-09-03	8,16	46,7	161	0,19	20	-5	0,67	2,09	6110	0,03	310	-5	0,11	-5	104,0	-0,01	-5	25	1	6	0,8	-0,2	1,2	-0,5	44,5	-0,05	-0,05	
747	74790407	TO106784	2009-09-03	7,98	252,2	116	0,20	20	-5	0,40	1,33	6780	0,03	330	-5	0,09	-5	82,9	-0,01	-5	38	-1	12	0,4	-0,2	0,6	-0,5	30,0	-0,05	-0,05	
747	74790408	TO106784	2009-09-03	7,70	96,8	253	0,17	20	-5	1,05	1,50	6390	0,04	1750	8	0,06	-5	63,3	-0,01	-5	21	-1	7	1,2	-0,2	1,7	-0,8	56,4	0,10	-0,05	
747	74790409	TO106784	2009-09-03	8,92	34,0	249	0,15	10	-5	0,76	0,71	3890	0,06	260	8	0,04	-5	85,3	0,01	-5	24	1	7	5,8	0,2	0,7	-0,5	64,9	-0,05	-0,05	
747	74790410	TO106784	2009-09-03	7,68	285,0	5	0,24	20	8	0,26	6,14	70	0,04	120	6	0,09	-5	98,9	-0,01	-5	-1	-5	-5	11,2	0,2	1,5	-0,5	25,7	0,35	0,15	
747	74790411	TO106784	2009-09-03	6,64	73,8	-5	0,65	10	8	0,78	1,22	-10	0,18	110	8	0,07	-5	104,0	0,01	-5	-1	-5	-16,0	0,2	3,5	0,8	1,1	0,65	0,40		
747	74790412	TO106784	2009-09-03	7,25	1,8	-5	0,24	10	-5	0,80	1,89	80	0,04	790	12	0,09	-5	9,2	-0,01	-5	21	-1	-5	1,6	-0,2	1,3	-0,5	27,5	0,31	0,15	
747	74790414	TO106784	2009-09-03	4,12	6,6	-5	0,08	10	6	0,97	1,72	150	0,08	220	13	-0,01	-5	5,2	0,01	-5	12	-1	-5	4,5	-0,2	1,2	-0,5	3,6	0,49	0,32	
747	74790415	TO106784	2009-09-03	7,07	13,6	-5	0,58	-10	-5	0,95	1,90	20	0,13	568	-5	0,10	-5	40,9	-0,01	-5	13	-1	-5	4,0	-0,2	5,3	-0,5	5,1	0,85	0,75	
747	74790416	TO106784	2009-09-03	17,40	3,3	18	0,08	-10	-5	1,01	7,74	130	0,02	220	10	0,04	-5	59,0	0,01	-5	86	2	6	-0,1	-0,2	0,3	-0,5	486,0	-0,05	-0,05	
747	74790417	TO106784	2009-09-03	6,16	4,3	-5	0,29	10	-5	0,81	2,24	-10	0,06	180	11	0,13	-5	10,0	-0,01	-5	19	-1	-5	4,3	-0,2	2,0	-0,5	22,5	-0,39	0,18	
747	74790418	TO106784	2009-09-03	6,88	4,8	-5	0,22	10	-5	1,91	2,28	20	0,04	7590	-5	0,09	-5	5,4	-0,01	-5	12	-1	-5	16,8	0,8	2,7	-0,5	12,2	1,57	0,95	
747	74790419	TO106784	2009-09-03	6,40	117,0	-5	0,45	-10	20	0,37	1,50	10	0,10	80	15	0,08	-5	77,3	0,01	-5	-1	-5	4,0	-0,2	5,0	-0,5	4,8	2,7	1,11	-0,2	
747	74790420	TO106784	2009-09-03	6,98	897,0	-5	5,29	50	17	10,30	1,29	10	2,63	1740	40	0,36	15	344,0	1,49	293	152	1	-5	-0,1	0,4	75,5	42,4	5,7	7,02	4,08	
747	74790421	TO106784	2009-09-03	7,11	5,7	-5	0,24	10	-5	0,76	2,62	20	0,03	750	5	0,10	-5	9,1	-0,01	-5	13	-1	-5	1,8	0,4	1,6	-0,5	29,7	0,47	0,19	
747	74790422	TO106784	2009-09-03	7,26	4,6	-5	0,16	10	-5	0,85	1,31	20	0,03	2330	7	0,07	-5	7,5	-0,01	-5	81	-1	-5	1,1	0,3	1,1	-0,5	24,0	0,38	0,15	
747	74790424	TO106784	2009-09-03	7,09	84,0	-5	0,74	10	-5	0,83	3,05	40	0,12	130	14	0,08	-5	87,1	0,02	-5	8	-1	-5	5,5	-0,2	9,0	0,6	3,5	2,66	1,50	
747	74790426	TO106784	2009-09-03	5,33	3,9	-5	0,16	20	-5	2,15	0,05	-10	1,01	160	24	-0,01	-5	14,4	0,09	18	82	-1	-5	-0,1	-0,2	0,7	3,3	0,1	0,65	-0,05	
747	74790427	TO106784	2009-09-03	6,59	522,0	-5	1,12	20	-5	1,01	2,10	10	0,17	140	7	0,06	-5	187,0	0,04	6	7	-1	-5	0,2	-0,2	34,7	1,4	2,4	1,27	0,46	
747	74790428	TO106784	2009-09-03	6,85	1050,0	-5	0,79	20	-5	1,45	3,44	10	0,23	200	13	-0,01	-5	179,0	0,10	14	15	-1	-5	0,1	-0,2	44,0	2,0	2,3	0,64	0,34	
747	74790429	TO106784	2009-09-03	8,40	63,7	77	0,15	20	11	0,24	2,64	4410	0,03	130	131	0,09	-5	72,2	-0,01	-5	8	-1	5	1,3	-0,2	0,6	-0,5	49,2	-0,05	-0,05	
747	74790430	TO106784	2009-09-03	7,27	95,4	7	0,82	20	-5	0,47	2,64	20	0,03	90	8	0,12	-5	79,5	-0,01	-5	-1	-5	0,3	0,2	1,7	-0,5	6,2	0,26	0,18		
747	74790431	TO106784	2009-09-03	7,41	12,1	90	0,12	-10	-5	0,46	2,21	100	-0,01	220	8	0,10	-5	26,0	-0,01	-5	7	-1	-5	0,6	-0,2	6,6	-0,5	52,1	-0,05	-0,05	
747	74790432	TO106784	2009-09-03	8,01	9,4	151	0,10	10	-5	0,42	0,40	13500	0,01	630	13	0,10	-5	13,3	-0,01	-5	6	60	-1	8	0,2	-0,2	2,0	1,1	14,0	-0,05	-0,05
747	74790434	TO106784	2009-09-03	7,08	10,2	-5	0,56	20	7	1,13</																					

PROJECT NUMBER	SAMPLE	ICM90A																											
		Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm	In ppm	La ppm	Lu ppm	Mo ppm	Nb ppm	Nd ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sm ppm	Sn ppm	Ta ppm	Tb ppm	Tl ppm	Tm ppm	U ppm	W ppm	Y ppm	Yb ppm	Zr ppm	
Nb Analyses: 27	0.05	1	0.05	1	1	0.05	0.2	0.1	0.05	2	1	0.1	5	0.05	0.2	0.1	0.1	1	0.5	0.05	0.1	0.5	0.05	1.0	0.5	0.1	0.5		
Compte Historique	634.00	637	637.00	637	637	637.00	637.0	637.0	637.00	638	637	637.0	637	637.00	637.0	637.0	637.0	637	637.00	637.00	637.0	637.00	637.0	637.0	637.0	637.0	637.0		
99 Percentile Historique	3.78	67	18.06	6	20	4.78	1.2	57.2	2.37	104	2852	71.4	987	17.72	6308.8	104.6	16.3	106	152.9	3.39	110.8	53.5	2.23	13.93	105.2	125.9	99.5	829.3	
Moyenne Historique	0.14	31	2.28	3	2	0.25	-0.2	3.0	0.11	10	130	4.2	41	1.02	1759.0	3.2	2.1	25	37.2	0.39	5.6	14.6	0.06	3.52	3.8	5.3	53.5	53.5	
Écart-type Historique	0.69	15	3.11	2	4	0.85	0.2	9.8	0.45	18	438	12.0	173	2.98	1515.2	17.8	2.8	22	38.2	0.59	17.7	13.5	0.41	3.61	17.8	21.9	17.3	165.5	
Maximum Historique	4.29	179	18.80	8	24	5.38	1.3	63.9	3.90	115	3060	77.4	1160	19.70	7980.0	116.0	17.1	228	385.0	3.93	121.0	77.0	2.82	33.30	118.0	137.0	114.0	913.0	
Minimum Historique	-0.05	-1	-0.05	-1	-1	-0.05	-0.2	-0.1	-0.05	-2	-1	-0.1	-5	-0.05	0.2	-0.1	-0.1	-1	-0.5	-0.05	-0.1	-0.5	-0.05	-1.0	-0.5	-0.1	-0.5		
Compte Projet	27.00	27	27.00	27	27	27.00	27.0	27.00	27	27	27.00	27.0	27.0	27.0	27.00	27.0	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00			
Moyenne Projet	0.28	31	0.70	2	0	0.13	-0.2	3.9	0.00	-2	24	3.5	10	0.92	475.3	-0.1	0.7	22	9.9	0.11	1.7	2.1	2.0	0.02	2.84	1.3	4.6	0.4	23.9
Écart-type Projet	0.61	32	1.68	1	1	0.30	0.0	8.0	0.13	1	35	9.4	14	2.21	1175.9	0.1	1.8	44	22.0	0.28	3.0	5.0	0.13	2.19	3.1	8.3	0.7	34.2	
Maximum Projet	3.26	179	8.58	5	3	1.48	-0.2	33.3	0.52	2	142	46.7	48	10.40	6200.0	0.1	8.9	228	94.5	1.34	13.8	24.9	0.54	8.18	12.0	40.3	3.5	143.0	
Minimum Projet	0.06	12	-0.05	1	-1	-0.05	-0.2	0.1	-0.05	-2	-1	-0.1	-5	-0.05	1.2	-0.1	-0.1	-1	-0.5	-0.05	0.2	-0.5	-0.05	-0.13	-1.0	-0.5	-0.1	-0.5	
747	74790404	0.07	20	0.11	2	-1	-0.05	-0.3	1.2	-0.05	-2	8	0.8	5	0.23	124.0	-0.1	0.1	8	0.8	-0.05	0.6	0.6	-0.05	4.88	2.0	1.6	0.3	8.4
747	74790405	0.37	17	0.69	1	-1	0.22	-0.2	2.0	-0.05	-2	5	1.3	24	0.41	67.8	-0.1	0.5	3	-0.5	0.17	0.9	-0.5	0.08	3.02	3.0	6.4	0.5	8.1
747	74790406	0.09	39	-0.05	4	-1	-0.05	-0.3	0.7	-0.05	-2	73	0.4	7	0.13	653.0	-0.1	-0.1	47	21.4	-0.05	1.1	4.0	-0.05	1.15	2.0	-0.5	-0.1	5.2
747	74790407	0.06	37	-0.05	3	-1	-0.05	-0.2	0.3	-0.05	-2	37	0.2	5	-0.06	417.0	-0.1	-0.1	33	6.3	-0.05	0.4	2.6	-0.05	0.03	-1.0	-0.5	-0.1	2.0
747	74790408	0.09	46	0.11	4	-1	-0.05	-0.2	0.6	-0.05	-2	51	0.4	-5	0.13	516.0	-0.1	-0.1	34	13.5	-0.05	0.6	3.0	-0.05	2.33	1.0	-0.5	-0.1	6.7
747	74790409	0.08	55	-0.05	4	-1	-0.05	-0.2	0.3	-0.05	-2	79	0.3	-5	0.04	166.0	0.1	-0.1	18	50.7	-0.05	0.7	1.1	-0.05	0.56	-1.0	-0.5	-0.1	2.1
747	74790410	0.26	13	0.20	2	-1	0.06	-0.2	0.8	-0.05	-2	5	0.6	48	0.17	304.0	-0.1	0.2	5	0.6	0.05	0.6	1.7	-0.05	1.12	2.0	1.8	0.2	7.4
747	74790411	0.29	14	0.48	1	-1	0.13	-0.2	2.5	0.11	-2	2	1.6	11	0.45	49.4	-0.1	0.4	3	-0.5	0.11	0.7	-0.5	0.06	4.08	3.0	4.6	0.4	2.4
747	74790412	0.07	24	0.18	2	0	0.06	-0.2	0.6	-0.05	-2	9	0.4	7	0.12	370.0	0.1	0.2	13	1.5	0.09	1.4	1.6	-0.05	1.61	1.0	2.1	0.2	29.8
747	74790414	0.08	22	0.19	1	-1	0.09	-0.2	0.7	-0.05	-2	6	0.5	-5	0.15	122.0	-0.1	0.2	8	-0.5	0.08	0.6	0.5	0.05	0.49	5.0	3.3	0.4	5.3
747	74790415	0.13	14	0.41	2	1	0.19	-0.2	3.8	0.18	-2	2	2.1	23	0.64	64.6	-0.1	0.5	2	-0.5	0.12	1.2	-0.5	0.14	6.18	-1.0	7.3	1.2	28.1
747	74790416	0.07	179	-0.05	4	-1	-0.05	-0.2	0.1	-0.05	-2	142	-0.1	-5	-0.05	6200.0	-0.1	-0.1	226	94.5	-0.05	0.3	24.9	-0.05	0.38	8.0	-0.5	-0.1	1.9
747	74790417	0.10	22	0.26	2	-1	0.06	-0.2	1.0	-0.05	-2	7	0.7	12	0.24	206.0	-0.1	0.3	12	1.0	0.07	1.4	1.1	-0.05	6.04	12.0	2.5	0.2	17.0
747	74790418	0.07	17	0.55	4	2	0.30	-0.2	1.1	0.17	-2	5	1.0	11	0.27	201.0	-0.1	0.3	4	-0.5	0.24	1.5	1.1	0.16	7.04	-1.0	13.2	1.4	50.9
747	74790419	0.23	14	0.44	1	-1	0.23	-0.2	1.6	0.09	-2	2	0.9	12	0.29	51.2	-0.1	0.3	3	-0.5	0.13	1.2	-0.5	0.12	3.34	2.0	8.2	0.9	14.2
747	74790420	3.26	22	8.58	2	3	1.48	-0.2	33.3	0.52	-2	13	46.7	51	10.40	46.2	-0.1	8.0	1	-0.5	1.34	1.6	-0.5	0.54	0.34	-1.0	40.3	3.5	143.0
747	74790421	0.07	21	0.30	2	1	0.06	-0.2	0.8	-0.05	-2	6	0.6	9	0.19	301.0	-0.1	0.2	9	-0.5	0.10	0.9	1.6	-0.05	5.54	-1.0	2.8	0.2	21.4
747	74790422	0.06	24	0.14	3	2	0.07	-0.2	0.5	-0.05	-2	7	0.4	-5	0.12	198.0	-0.1	0.1	27	1.5	0.05	1.0	0.8	-0.05	4.50	1.0	2.6	0.3	44.3
747	74790424	0.28	22	2.09	1	-1	0.51	-0.2	4.4	0.10	-2	5	4.3	23	1.18	114.0	-0.1	1.5	3	-0.5	0.49	3.6	-0.5	0.17	4.29	4.0	16.0	1.1	20.3
747	74790426	0.10	21	-0.05	1	-1	-0.05	-0.2	0.4	-0.05	-2	-1	0.2	-5	0.08	1.2	-0.1	0.1	3	-0.5	-0.05	0.2	-0.5	-0.05	0.13	-1.0	-0.5	-0.1	-0.5
747	74790427	0.58	16	1.84	1	2	0.21	-0.2	18.0	-0.05	-2	4	13.0	27	3.83	82.1	-0.1	2.6	1	-0.5	0.28	9.3	-0.5	0.07	1.86	-1.0	5.9	0.4	57.3
747	74790428	0.62	17	1.84	1	3	0.13	-0.2	24.1	-0.05	-2	6	15.6	24	4.85	144.0	-0.1	2.3	-1	-0.5	0.21	13.9	0.7	-0.05	2.92	-1.0	3.7	0.3	115.0
747	74790429	0.07	40	-0.05	4	1	-0.05	-0.2	0.4	-0.05	-2	63	0.2	8	0.09	976.0	-0.1	-0.1	22	49.8	-0.05	0.5	7.7	-0.05	1.87	-1.0	-0.5	-0.1	6.8
747	74790430	0.18	12	0.16	2	-1	0.05	-0.2	1.1	-0.05	-2	1	0.5	33	0.16	103.0	-0.1	0.2	2	-0.5	-0.05	0.2	-0.5	-0.05	0.63	-1.0	2.1	0.2	2.1
747	74790431	0.06	44	0.08	5	-1	-0.05	-0.2	0.8	-0.05	-2	35	0.2	-5	0.08	1080.0	-0.1	-0.1	51	11.1	-0.05	0.5	6.7	-0.05	2.27	-1.0	-0.5	-0.1	4.6
747	74790432	0.08	50	0.08	5	2	-0.05	-0.2	1.5	-0.05	-2	80	0.6	-5	0.17	236.0	-0.1	-0.1	43	20.8	-0.05	1.1	1.3	-0.05	4.12	-1.0	-0.5	-0.1	24.5
747	74790434	0.17	18	0.43	2	-1	0.15	-0.2	1.9	-0.05	-2	14	6	0.39	38.4	-0.1	0.4	7	-0.5	0.10	1.2	-0.5	0.07	2.95	2.0	5.0	0.4	16.6	

THE KAPIWAK PROJECT - PROPERTY VISITING REPORT -  
ROCK TECH RESOURCES INC.

**APPENDIX 3**

**ANALYTICAL QUALITY CONTROL**

**Table 1:** NCS DC73335 certified reference material analysis

**Table 2:** MRIMIL06 internal reference material analysis

**Table 3:** Quartz internal reference material analysis

**Table 4:** Replicates analysis, by SGS

PROJECT NUMBER	SAMPLE	CERTIFICATE	DATE RECEIVED	ICM90A																											
				Al	Ba	Be	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Tl	V	Zn	Ag	As	Bi	Cd	Ce	Co	Cs	Dy	Er	Eu
%	ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm											
Nb Analyses:	1			0.01	0.5	5	0.01	10	5	0.01	0.01	10	0.01	10	5	0.01	5	0.1	0.01	5	5	1	30	0.1	0.2	0.1	0.6	0.1	0.05	0.05	
Compte	Historique			20	20	20	20,00	20	20	20,00	20	20	20,00	20	20	20,00	20	20	20,00	20	20	20,00	20	20	20,00	20,00	20,00	20,00	19,00		
Moyenne	Historique			6,80	9023	98	0,98	898	938	2,49	1,02	1001	0,48	9539	1	0,00	-1	950	0,91	941	1126	10	-1	100,6	9,8	924	0,9	0,6	0,02	0,01	0,00
Ecart-type	Historique			0,23	2139	2	0,12	88	32	0,08	0,04	75	0,03	243	3	0,01	2	50	0,02	22	92	1	2	9,1	0,7	85	0,1	1,0	0,08	0,04	0,00
Maximum	Historique			7,18	9890	99	1,38	980	988	2,68	1,12	1130	0,58	9870	10	0,02	0	1040	0,94	988	1300	11	0	118,0	11,2	1120	1,3	4,4	0,19	0,09	0,00
Minimum	Historique			6,33	0	91	0,84	560	884	2,37	0,95	880	0,45	9110	-5	-0,01	-5	854	0,68	869	970	7	-5	80,7	8,7	743	0,7	-0,1	-0,05	-0,05	0,00
Compte	Projet			1	1	1	1,00	1	1	1,00	1,00	1	1	1,00	1	1	1	1,00	1	1	1	1	1	1,0	1,0	1	1,0	1,00	1,00	0,00	
Moyenne	Projet			6,80	9520	98	0,94	560	890	2,43	1,01	960	0,48	9540	8	0,02	-5	976	0,87	939	1080	7	-5	80,7	10,0	743	0,7	0,1	-0,05	-0,05	#DIV/0!
Ecart-type	Projet			#DIV/0!																											
Maximum	Projet			6,80	9520	98	0,94	560	890	2,43	1,01	960	0,48	9540	8	0,02	-5	976	0,87	939	1080	7	-5	80,7	10,0	743	0,7	0,1	-0,05	-0,05	0,00
Minimum	Projet			6,80	9520	98	0,94	560	890	2,43	1,01	960	0,48	9540	8	0,02	-5	976	0,87	939	1080	7	-5	80,7	10,0	743	0,7	0,1	-0,05	-0,05	0,00
VALEUR CERTIFIÉE INFÉRIEURE				9800	93	990	980		980		9800		9800		9800		970	0,98	990	980	9,5	98	9,5	980							
VALEUR CERTIFIÉE				10000	100	1000	1000		1010		10000		10000		10000		1000	1,00	10000	1000	10	100	10,0	1000							
VALEUR CERTIFIÉE SUPÉRIEURE				10200	107	1010	1020		1040		10200		1030	1,02	1010	1020	10,6	104	10,5	1020											
747	74790402	TO106784	2009-09-03	6,80	9520,0	96,0	0,94	560	890	2,43	1,01	960	0,48	9540	8	0,02	-5	976	0,87	939	1080	7	-5	80,7	10	743	1	0,1	-0,05	-0,05	

PROJECT NUMBER	SAMPLE	CERTIFICATE	DATE RECEIVED	ICM90A																										
				Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm	In ppm	La ppm	Lu ppm	Mo ppm	Nb ppm	Nd ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sm ppm	Sn ppm	Ta ppm	Tb ppm	Th ppm	Tl ppm	Tm ppm	U ppm	W ppm	Y ppm	Yb ppm	Zr ppm
1	0.05	1	1	0.05	0.2	0.1	0.05	2	1	0.1	5	0.05	0.2	0.1	1	0.1	1	0.1	1	0.5	0.05	0.1	0.5	0.05	0.05	0.05	1,0	0.5	0.1	0.5
Nb Analyses:	1																													
Compte	Historique			20	20,00	20	20	20,00	20,0	20,0	20,00	20	20	20,00	20,0	20,0	20,0	20,0	20,00	20,0	20,00	20,0	20,00	20,0	20,0	20,0	20,0	20,0		
Moyenne	Historique			16	-0,05	0	20	-0,01	0,0	0,3	0,03	101	20	0,2	988	0,03	10,7	101,5	0,0	100	0,9	0,10	0,3	0,0	-0,01	0,09	101,3	0,1	98,1	825,0
Écart-type	Historique			1	0,08	0	2	0,02	0,1	0,2	0,08	6	5	0,3	75	0,07	20,3	7,8	0,1	7	0,8	0,03	0,1	0,3	0,02	0,04	11,0	0,4	8,4	37,0
Maximum	Historique			17	0,24	0	24	0,00	0,0	1,1	0,31	115	28	1,1	1160	0,27	76,1	116,0	0,2	115	2,8	0,15	0,8	0,6	0,00	0,18	118,0	1,1	114,0	913,0
Minimum	Historique			14	-0,05	-1	18	-0,05	-0,2	0,0	-0,05	89	13	0,0	820	-0,05	0,4	90,1	-0,1	90	-0,5	0,08	0,0	-0,5	-0,05	0,05	72,0	-0,5	79,9	772,0
Compte	Projet			1	1,00	1	1	1,00	1,0	1,0	1,00	1	1	1,00	1,0	1,00	1,0	1,0	1	1,00	1,0	1,00	1,0	1,00	1,00	1,0	1,0	1,0	1,0	
Moyenne	Projet			16	-0,05	-1	18	-0,05	-0,2	0,2	-0,05	95	24	0,2	820	-0,05	0,7	98,8	-0,1	95	-0,5	0,12	0,3	-0,5	-0,05	0,09	72,0	-0,5	79,9	800,0
Écart-type	Projet			#DIV/0!																										
Maximum	Projet			16	-0,05	-1	18	-0,05	-0,2	0,2	-0,05	95	24	0,2	820	-0,05	0,7	98,8	-0,1	95	-0,5	0,12	0,3	-0,5	-0,05	0,09	72,0	-0,5	79,9	800,0
Minimum	Projet			16	-0,05	-1	18	-0,05	-0,2	0,2	-0,05	95	24	0,2	820	-0,05	0,7	98,8	-0,1	95	-0,5	0,12	0,3	-0,5	-0,05	0,09	72,0	-0,5	79,9	800,0
VALEUR CERTIFIÉE INFÉRIEURE																														
VALEUR CERTIFIÉE																														
VALEUR CERTIFIÉE SUPÉRIEURE																														
747	74790402	TO106784	2009-09-03	16	-0,05	-1	18	-0,05	-0,20	0,2	-0,05	95	24	0,2	820	-0,05	0,7	98,8	-0,1	95	-0,5	0,12	0	-0,5	-0,05	0,1	72	-0,5	79,9	600

PROJECT NUMBER	SAMPLE	CERTIFICATE	DATE RECEIVED	ICM90A																												
				Al		Ba	Be	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Tl	V	Zn	Ag	As	Bi	Cd	Ce	Co	Cs	Dy	Er	Eu
				%	ppm	ppm	%	ppm	ppm	%	%	%	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Nb Analyses:	1			0.01	0.5	5	0.01	10	5	0.01	0.01	10	0.01	10	5	0.01	5	0.1	0.01	5	5	1	30	0.1	0.2	0.1	0.5	0.1	0.06	0.05	0.05	
Compte Historique				19	19,0	19	19,00	19	19	19,00	19,00	19	19,00	19	19,00	19	19,00	19	19,0	19,00	19	19,0	19,00	19,00	19,00	19,00	19,00	19,00	19,00	19,00	19,00	19,00
Moyenne Historique				5,20	119,4	0	5,33	651	3662	17,31	0,35	7	3,87	3797	68	0,05	45	179,0	2,09	265	4895	2	27	0,7	23,6	141,2	151,6	0,7	21,80	15,13	3,66	
Ecart-type Historique				0,16	5,2	3	0,20	319	120	0,70	0,03	13	0,10	103	9	0,01	9	8,9	0,05	8	4777	3	11	0,2	1,4	8,1	11,8	0,7	1,28	1,25	0,34	
Maximum Historique				5,46	130,0	8	5,74	1120	3860	18,70	0,38	40	4,14	3980	101	0,06	76	200,0	2,23	289	9700	12	40	1,4	26,4	158,0	173,0	2,5	24,00	17,30	4,29	
Minimum Historique				4,88	111,0	-5	5,04	210	3460	15,70	0,29	-10	3,74	3570	57	0,04	28	164,0	2,02	252	0	0	-5	0,5	20,9	120,0	121,0	0,2	19,00	12,20	2,87	
Compte Projet				1	1,0	1	1,00	1	1	1,00	1	1,00	1	1	1,00	1	1,00	1	1,00	1	1	0	1	1,0	1,0	1,0	1,00	1,00	1,00			
Moyenne Projet				5,46	118,0	-5	5,45	210	3860	16,00	0,38	-10	3,94	3860	101	0,06	28	173,0	2,07	289	8890	#DIV/0!	-5	0,5	22,1	126,0	121,0	0,2	19,00	12,20	3,09	
Ecart-type Projet				5,46	118,0	-5	5,45	210	3860	16,00	0,38	-10	3,94	3860	101	0,06	28	173,0	2,07	289	8890	#DIV/0!										
Maximum Projet				5,46	118,0	-5	5,45	210	3860	16,00	0,38	-10	3,94	3860	101	0,06	28	173,0	2,07	289	8890	0	-5	0,5	22,1	126,0	121,0	0,2	19,00	12,20	3,09	
Minimum Projet				5,46	118,0	-5	5,45	210	3860	16,00	0,38	-10	3,94	3860	101	0,06	28	173,0	2,07	289	8890	0	-5	0,5	22,1	126,0	121,0	0,2	19,00	12,20	3,09	
747	74790401	TO106784	2009-09-03	5,46	118,0	-5,0	5,45	210	3860	16,00	0,38	-10	3,94	3860	101	0,06	28	173	2,07	289	6,690	-5	0,5	22	126	121	0,2	19,0	12,2	3,09		

PROJECT NUMBER	SAMPLE	CERTIFICATE	DATE RECEIVED	ICM90A																										
				Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm	In ppm	La ppm	Lu ppm	Mo ppm	Nb ppm	Nd ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sm ppm	Sn ppm	Ta ppm	Tb ppm	Th ppm	Tl ppm	Tm ppm	U ppm	W ppm	Y ppm	Yb ppm	Zr ppm
Nb Analyses:	1			1	0.05	1	1	0.05	0.2	0.1	0.05	2	1	0.1	5	0.05	0.2	0.1	0.1	1	0.5	0.05	0.1	0.5	0.05	0.05	1,0	0.5	0.1	0.5
Compte Historique				19	19.00	19	19	19.00	19.0	19.0	19.00	19	19	19.0	19.00	19.0	19.0	19.0	19.0	19.0	19.00	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
Moyenne Historique				19	17.60	5	13	4.70	1.2	56.7	2.27	22	2581	89.6	128	17.35	15.2	1.3	15.8	14	24.5	3.37	104.9	0.0	2.15	11.86	2.8	121.9	14.3	515.7
Ecart-type Historique				1	0.88	0	1	0.36	0.1	3.1	0.25	16	353	4.2	14	1.30	13.9	0.3	1.1	4	4.5	0.24	15.1	0.2	0.18	2.27	3.1	6.4	1.2	24.5
Maximum Historique				21	18.60	6	15	5.38	1.3	63.9	2.69	46	3080	77.4	152	19.79	51.8	2.1	17.1	28	28.9	3.93	121.0	0.5	2.40	14.60	10.0	133.0	16.0	568.0
Minimum Historique				17	15.70	4	10	4.08	1.0	52.3	1.58	-2	1810	83.3	86	15.50	4.8	1.0	13.3	11	9.6	3.03	62.9	-0.5	1.66	4.63	-1.0	109.0	10.8	484.0
Complexe Projet				1	1.00	1	1	1.00	1.0	1.00	1	1	1.0	1	1.00	1.0	1.0	1.0	1	1.00	1.0	1.00	1.00	1.00	1.0	1.00	1.0	1.00	1.0	
Moyenne Projet				19	15.70	5	10	4.10	1.0	54.8	1.58	-2	1810	83.7	86	15.90	6.5	1.0	13.5	12	9.6	3.15	62.9	-0.5	1.66	4.63	-1.0	109.0	10.8	515.0
Ecart-type Projet				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!																							
Maximum Projet				19	15.70	5	10	4.10	1.0	54.8	1.58	-2	1810	83.7	86	15.90	6.5	1.0	13.5	12	9.6	3.15	62.9	-0.5	1.66	4.63	-1.0	109.0	10.8	515.0
Minimum Projet				19	15.70	5	10	4.10	1.0	54.8	1.58	-2	1810	83.7	86	15.90	6.5	1.0	13.5	12	9.6	3.15	62.9	-0.5	1.66	4.63	-1.0	109.0	10.8	515.0
747	74790401	TO106784	2009-09-03	19	15.7	5	10	4.10	1.0	54.8	1.58	-2	1810	83.7	86	15.9	8.5	1.0	13.5	12	9.6	3.15	63	-0.5	1.66	4.6	-1	109	10.8	515

PROJECT NUMBER	SAMPLE	CERTIFICATE	DATE RECEIVED	ICM90A																											
				Al	Ba	Be	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Tl	V	Zn	Ag	As	Bi	Cd	Ce	Co	Cs	Dy	Er	Eu
				%	ppm	ppm	%	ppm	ppm	%	%	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Nb	Analyses:	5		0.01	0.6	5	0.01	10	5	0.01	0.01	10	0.01	10	5	0.01	5	0.1	0.01	5	1	30	0.1	0.2	0.1	0.5	0.1	0.05	0.05	0.05	
Compte Historique				51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
Moyenne Historique				0,05	5,2	0	0,18	198	6	0,26	0,04	27	0,02	29	6	0,00	0	5,2	0,00	0	5	0	0	0,0	0,3	0,3	0,5	0,04	0,02	0,01	
Écart-type Historique				0,03	3,8	1	0,18	130	5	0,12	0,02	34	0,03	17	5	0,01	1	4,4	0,00	2	8	0	0	0,0	0,2	0,3	0,5	0,09	0,05	0,03	
Maximum Historique				0,12	18,3	10	0,99	510	16	0,63	0,08	130	0,11	70	16	0,03	9	16,8	0,01	11	36	0	0	0,1	0,0	1,0	1,0	2,6	0,52	0,27	0,09
Minimum Historique				0,00	0,0	0	0,02	10	0	0,10	0,00	0	0,00	0	0	0,00	0	0	0,0	0	0	0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	
Compte Projet				5	5,0	5	5,00	5	5	5,00	5,00	5	5,00	5	5	5,00	5	5,00	5	5	5	5	5,0	5,0	5,0	5,0	5,0	5,0	5,00	5,00	
Moyenne Projet				0,04	5,4	#DIV/0!	0,07	28	14	0,43	0,03	50	0,02	52	11	0,02	#DIV/0!	3,7	#DIV/0!	8	#DIV/0!	#DIV/0!	#DIV/0!	0,1	0,5	#DIV/0!	0,1	0,08	#DIV/0!	0,08	
Écart-type Projet				0,01	4,1	#DIV/0!	0,02	11	4	0,16	0,00	#DIV/0!	0,01	25	5	0,01	#DIV/0!	1,3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0,2	#DIV/0!	0,1	#DIV/0!	#DIV/0!	0,01		
Maximum Projet				0,05	12,2	0	0,09	40	16	0,57	0,04	50	0,02	70	16	0,03	0	5,9	0,00	8	0	0	0,1	0,0	0,7	0,0	0,2	0,08	0,00	0,09	
Minimum Projet				0,03	1,8	0	0,05	20	11	0,14	0,03	50	0,01	10	6	0,01	0	2,4	0,00	8	0	0	0,1	0,0	0,3	0,0	0,1	0,08	0,00	0,06	
747 74790400 TO106784 2009-09-03 0,04 1,8 -5 0,09 20 16 0,57 0,03 -10 0,01 70 -5 0,01 -5 5,9 -0,01 8 -5 -1 -5 -0,1 -0,2 0,6 -0,6 -0,1 -0,05 -0,05 0,09																															
747 74790403 TO106784 2009-09-03 0,03 12,2 -5 0,08 40 11 0,39 0,03 -10 -0,01 50 16 0,03 -5 3,6 -0,01 -5 -5 -1 -5 0,1 -0,2 0,7 -0,5 -0,1 -0,05 -0,05 0,08																															
747 74790413 TO106784 2009-09-03 0,04 6,1 -5 0,05 20 -5 0,14 0,03 -10 -0,01 10 6 0,01 -5 2,4 -0,01 -5 -5 -1 -5 -0,1 -0,2 0,3 -0,6 0,1 -0,05 -0,05 0,07																															
747 74790423 TO106784 2009-09-03 0,05 2,9 -5 0,08 20 -5 0,55 0,03 -10 -0,01 70 11 0,01 -5 3,0 -0,01 -5 -5 -1 -5 -0,1 -0,2 0,4 -0,5 0,1 -0,05 -0,05 0,09																															
747 74790433 TO106784 2009-09-03 0,04 4,2 -5 0,07 40 -5 0,52 0,04 50 0,02 60 -5 -0,01 -5 3,7 -0,01 -6 -5 -1 -5 -0,1 -0,2 0,3 -0,6 0,2 -0,05 -0,05 0,06																															

PROJECT NUMBER	SAMPLE	CERTIFICATE	DATE RECEIVED	ICN90A																										
				Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm	In ppm	La ppm	Lu ppm	Mo ppm	Nb ppm	Nd ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sm ppm	Sn ppm	Ta ppm	Tb ppm	Th ppm	Tl ppm	Tm ppm	U ppm	W ppm	Y ppm	Yb ppm	Zr ppm
Nb Analyses: 6			1	0.05	1	1	0.05	0.2	0.1	0.05	2	1	0.1	5	0.05	0.2	0.1	0.1	1	0.5	0.05	0.1	0.5	0.05	0.05	1.0	0.5	0.1	0.5	
Compte Historique				51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
Moyenne Historique				0	0.04	0	0	0.00	0	0.1	0.05	10	1	0.1	1	0.02	0.2	0.0	0.0	1	0.1	0.00	0.1	0.0	0.02	0.7	0.2	0.0	1.2	
Écart-type Historique				0	0.08	0	0	0.01	0	0.1	0.14	8	2	0.1	3	0.03	11.6	0.1	0.0	4	0.2	0.01	0.1	0.1	0.00	0.04	1.1	0.5	0.0	1.3
Maximum Historique				0	0.48	1	0	0.09	0	0.8	0.76	27	10	0.5	14	0.13	63.6	0.3	0.1	29	1.1	0.08	0.4	0.6	0.00	0.14	3.0	3.1	0.2	5.9
Minimum Historique				0	0.00	0	0	0.00	0	0.00	0.00	0	0	0.0	0	0.00	0.2	0.0	0.0	0	0.0	0.00	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0
Compte Projet			5	5.00	5	5	5.00	5.0	5.00	5	5	5.0	5	5.00	5.00	5.0	5.0	5.0	5	5.00	5.00	5.0	5.00	5.00	5.0	5.0	5.0	5.0	5.0	
Moyenne Projet			#DIV/0!	0.07 #DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.2 #DIV/0!	#DIV/0!	6	0.2 #DIV/0!	0.07	1.2	0.1 #DIV/0!	29 #DIV/0!	#DIV/0!	0.3 #DIV/0!	2.0											
Écart-type Projet			#DIV/0!	0.00 #DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.1 #DIV/0!	#DIV/0!	1	0.1 #DIV/0!	0.01	1.0 #DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.1 #DIV/0!	1.3											
Maximum Projet			0	0.07	0	0	0.00	0.0	0.4	0.00	0	6	0.3	0	0.08	2.9	0.1	0.0	29	0.0	0.00	0.4	0.0	0.00	0.00	0.0	0.0	0.0	3.9	
Minimum Projet			0	0.07	0	0	0.00	0.0	0.1	0.00	0	5	0.1	0	0.08	0.2	0.1	0.0	29	0.0	0.00	0.2	0.0	0.00	0.00	0.0	0.0	0.0	0.9	
747 74790400 TO106784 2009-09-03	-1	0.07	-1	-1	-0.05	-0.2	0.4	-0.05	-2	6	0.3	-5	0.08	0.5	-0.1	-0.1	-1	-0.5	-0.05	0.4	-0.5	-0.05	-0.05	-1	-0.5	-0.1	1.8			
747 74790403 TO106784 2009-09-03	-1	-0.05	-1	-1	-0.05	-0.2	0.1	-0.05	-2	5	0.1	-5	-0.05	0.2	0.1	-0.1	-1	-0.5	-0.05	0.3	-0.5	-0.05	-0.05	-1	-0.5	-0.1	3.9			
747 74790413 TO106784 2009-09-03	-1	-0.05	-1	-1	-0.05	-0.2	0.1	-0.05	-2	-1	0.1	-5	-0.05	1.1	-0.1	-0.1	-1	-0.5	-0.05	0.2	-0.5	-0.05	-0.05	-1	-0.5	-0.1	0.9			
747 74790423 TO106784 2009-09-03	-1	0.07	-1	-1	-0.05	-0.2	0.2	-0.05	-2	-1	0.2	-5	0.08	1.2	-0.1	-0.1	-1	-0.5	-0.05	0.3	-0.5	-0.05	-0.05	-1	-0.5	-0.1	1.5			
747 74790433 TO106784 2009-09-03	-1	-0.05	-1	-1	-0.05	-0.2	0.2	-0.05	-2	-1	0.2	-5	-0.05	2.8	-0.1	-0.1	29	-0.5	-0.05	0.2	-0.5	-0.05	-0.05	-1	-0.5	-0.1	-0.5			

PROJECT NUMBER	SAMPLE	CERTIFICATE	DATE RECEIVED	ICM90A																											
				Al	Ba	Be	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Tl	V	Zn	Ag	As	Bi	Cd	Ce	Co	Cs	Dy	Er	Eu
				%	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Nb Analyses:	6			0.01	0.5	5	0.01	10	5	0.01	0.01	10	0.01	10	6	0.01	5	0.1	0.01	5	5	1	30	0.1	0.2	0.1	0.5	0.05	0.05		
747	74790400	TO106784	2009-09-03	0,04	1,8	-5	0,09	20	16	0,57	0,03	-10	0,01	70	-5	0,01	-5	5,9	-0,01	8	-5	-1	-5	-0,1	-0,2	0,6	-0,5	-0,1	-0,05	0,09	
747	DUP-74790400	TO106784	2009-09-03	0,04	1,5	-5	0,09	20	16	0,55	0,04	-10	0,03	70	10	0,04	-5	6,0	-0,01	-5	-5	-1	-5	-0,1	-0,2	0,3	-0,5	-0,1	-0,05	0,07	
747	74790412	TO106784	2009-09-03	7,25	1,6	-5	0,24	10	-5	0,80	1,69	80	0,04	780	12	0,09	-5	9,2	-0,01	-5	21	-1	-5	1,6	-0,2	1,3	-0,5	27,5	0,31	0,15	0,07
747	DUP-74790412	TO106784	2009-09-03	7,27	1,2	-5	0,26	-10	-5	0,79	1,64	80	0,04	780	5	0,07	-5	9,7	-0,01	-5	31	-1	-5	1,8	0,2	1,4	-0,5	26,9	0,30	0,16	0,07
747	74790424	TO106784	2009-09-03	7,09	84	-5	0,74	10	-5	0,83	3,05	40	0,12	130	14	0,09	-5	87,1	0,02	-5	9	-1	-5	5,5	-0,2	9,0	0,6	3,5	2,86	1,50	0,26
747	DUP-74790424	TO106784	2009-09-03	7,08	78,6	-5	0,74	-10	-5	0,65	3,04	40	0,13	130	-5	0,10	-5	84,8	0,02	-5	13	-1	-5	5,4	0,3	9,9	0,5	3,6	2,92	1,38	0,28

PROJECT NUMBER	SAMPLE	CERTIFICATE	DATE RECEIVED	ICN90A																										
				Ga ppm	Gd ppm	Ge ppm	Hf ppm	No ppm	In ppm	La ppm	Lu ppm	Mo ppm	Nb ppm	Nd ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sm ppm	Sn ppm	Ta ppm	Tb ppm	Th ppm	Tl ppm	Tm ppm	U ppm	W ppm	Y ppm	Yb ppm	Zr ppm
Nb Analyses:	6			1	0.05	1	1	0.05	0.2	0.1	0.05	2	1	0.1	5	0.05	0.2	0.1	0.1	1	0.5	0.05	0.1	0.05	0.05	1,0	0.5	0.1	0.5	
747	74790400	TO106784	2009-09-03	-1	0,07	-1	-1	-0,05	-0,2	0,4	-0,05	-2	6	0,3	-5	0,08	0,5	-0,1	-0,1	-1	-0,5	-0,05	0,4	-0,5	-0,05	-0,05	-1	-0,5	-0,1	1,8
747	DUP-74790400	TO106784	2009-09-03	-1	0,07	-1	-1	-0,05	-0,2	0,2	-0,05	-2	3	0,3	-5	0,06	0,6	-0,1	-0,1	-1	-0,5	-0,05	0,1	-0,5	-0,05	-0,05	-1	-0,5	-0,1	-0,5
747	74790412	TO106784	2009-09-03	24	0,18	2	2	0,06	-0,2	0,6	-0,05	-2	9	0,4	7	0,12	370	0,1	0,2	13	1,5	0,05	1,4	1,6	-0,05	1,61	1	2,1	0,2	29,8
747	DUP-74790412	TO106784	2009-09-03	24	0,16	3	2	0,05	-0,2	0,7	-0,05	-2	9	0,4	7	0,15	384	-0,1	0,2	14	1,6	-0,05	1,7	1,7	-0,05	1,71	1	2,1	0,2	27,1
747	74790424	TO106784	2009-09-03	22	2,09	1	-1	0,51	-0,2	4,4	0,10	-2	5	4,3	23	1,18	114	-0,1	1,5	3	-0,5	0,49	3,6	-0,5	0,17	4,29	4	16,0	1,1	20,3
747	DUP-74790424	TO106784	2009-09-03	22	2,17	1	-1	0,53	-0,2	4,6	0,13	-2	5	4,4	24	1,22	112	-0,1	1,8	2	-0,5	0,50	4,0	-0,5	0,18	4,06	4	18,1	1,2	19,7

THE KAPIWAK PROJECT - PROPERTY VISITING REPORT -  
ROCK TECH RESOURCES INC.

**APPENDIX 4**

**CERTIFICATES OF ANALYSIS**



## Certificate of Analysis

Work Order: TO106784

To: IOS Services Geoscientifices Inc.  
Attn: Rejean Girard  
1319 Boulevard St-Paul  
CHICOUTIMI  
QUEBEC G7J 3Y2

Date: Sep 03, 2009

P.O. No. : PO#:114839  
Project No. : DEFAULT  
No. Of Samples 34  
Date Submitted Jul 21, 2009  
Report Comprises Pages 1 to 7  
(Inclusive of Cover Sheet)

**Distribution of unused material:**

Return to client: 34 Rocks

Certified By :

Gavin McGill  
Operations Manager

**SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at <http://www.scc.ca/en/programs/lab/mineral.shtml>**

Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample  
n.a. = Not applicable - = No result

\*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted

Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Element Method Det.Lim. Units	WtKg WGH79 0.001 kg	Al @ICM90A 0.01 %	Ba @ICM90A 0.5 ppm	Be @ICM90A 5 ppm	Ca @ICM90A 0.01 %	Cr @ICM90A 10 ppm	Cu @ICM90A 5 ppm	Fe @ICM90A 0.01 %	K @ICM90A 0.01 %	Li @ICM90A 10 ppm
74790400	1.095	0.04	1.8	<5	0.09	20	16	0.57	0.03	<10
*Rep 74790400	<0.001	0.04	1.5	<5	0.09	20	16	0.55	0.04	<10
74790401	0.060	5.46	118	<5	5.45	210	3860	16.0	0.38	<10
74790402	0.001	6.80	9520	96	0.94	560	890	2.43	1.01	960
74790403	1.412	0.03	12.2	<5	0.06	40	11	0.39	0.03	<10
74790404	1.604	7.06	13.0	6	0.31	20	10	0.44	1.78	<10
74790405	1.320	7.35	109	<5	0.94	20	5	0.73	2.22	10
74790406	1.224	8.16	48.7	161	0.19	20	<5	0.67	2.09	6110
74790407	1.637	7.98	25.2	116	0.20	20	<5	0.40	1.33	6780
74790408	1.717	7.70	96.8	253	0.17	20	<5	1.05	1.50	6390
74790409	1.548	8.92	34.0	249	0.15	10	<5	0.76	0.71	3890
74790410	0.981	7.86	285	5	0.24	20	6	0.26	6.14	70
74790411	0.622	6.64	73.8	<5	0.55	10	6	0.76	1.22	<10
74790412	0.601	7.25	1.6	<5	0.24	10	<5	0.80	1.69	80
*Rep 74790412	<0.001	7.27	1.2	<5	0.26	<10	<5	0.79	1.64	80
74790413	0.859	0.04	6.1	<5	0.05	20	<5	0.14	0.03	<10
74790414	0.585	4.12	8.6	<5	0.08	10	6	0.97	1.72	150
74790415	0.822	7.07	13.6	<5	0.58	<10	<5	0.95	1.90	20
74790416	0.693	17.4	3.3	18	0.08	<10	<5	1.01	7.74	130
74790417	1.263	8.16	4.3	<5	0.29	10	<5	0.81	2.24	<10
74790418	0.481	6.86	4.9	<5	0.22	10	<5	1.91	2.28	20
74790419	0.487	6.40	117	<5	0.45	<10	20	0.37	1.50	10
74790420	0.501	6.96	897	<5	5.29	50	17	10.3	1.29	10
74790421	0.728	7.11	5.7	<5	0.24	10	<5	0.76	2.62	20
74790422	0.682	7.26	4.6	<5	0.16	10	<5	0.85	1.31	20
74790423	1.200	0.05	2.9	<5	0.06	20	<5	0.55	0.03	<10
74790424	0.497	7.09	84.0	<5	0.74	10	<5	0.83	3.05	40
*Rep 74790424	<0.001	7.08	78.8	<5	0.74	<10	<5	0.85	3.04	40
74790426	0.500	5.33	3.9	<5	0.16	20	<5	2.15	0.05	<10
74790427	0.435	6.59	522	<5	1.12	20	<5	1.01	2.10	10
74790428	0.563	6.65	1050	<5	0.70	20	<5	1.45	3.44	10
74790429	0.622	8.40	63.7	77	0.15	20	11	0.24	2.64	4410
74790430	0.843	7.27	95.4	7	0.82	20	<5	0.47	2.64	20
74790431	0.333	7.41	12.1	90	0.12	<10	<5	0.46	2.21	100
74790432	0.882	8.01	9.4	151	0.10	10	<5	0.42	0.40	13500
74790433	0.701	0.04	4.2	<5	0.07	40	<5	0.52	0.04	50
74790434	0.842	7.08	10.2	<5	0.56	20	7	1.13	0.90	<10

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Element	Mg @ICM90A	Mn 10 ppm	Ni 5 ppm	P 0.01 %	Sc 5 ppm	Sr 0.1 ppm	Ti 0.01 %	V 5 ppm	Zn 5 ppm	Ag 1 ppm
Method										
Det.Lim.	0.01	10	5	0.01	5	0.1	0.01	5	5	<1
Units	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
74790400	0.01	70	<5	0.01	<5	5.9	<0.01	8	<5	<1
*Rep 74790400	0.03	70	10	0.04	<5	6.0	<0.01	<5	<5	<1
74790401	3.94	3860	101	0.06	28	173	2.07	289	8690	INF
74790402	0.48	9540	8	0.02	<5	976	0.87	939	1060	7
74790403	<0.01	50	16	0.03	<5	3.6	<0.01	<5	<5	<1
74790404	0.03	190	7	0.06	<5	14.0	0.01	<5	15	<1
74790405	0.09	140	<5	0.09	<5	154	0.01	<5	<5	<1
74790406	0.03	310	<5	0.11	<5	104	<0.01	<5	25	1
74790407	0.03	330	<5	0.09	<5	82.9	<0.01	<5	38	<1
74790408	0.04	1750	8	0.06	<5	63.3	<0.01	<5	21	<1
74790409	0.06	280	6	0.04	<5	85.3	0.01	<5	24	1
74790410	0.04	120	6	0.09	<5	98.9	<0.01	<5	5	<1
74790411	0.10	110	6	0.07	<5	104	0.01	<5	<5	<1
74790412	0.04	790	12	0.09	<5	9.2	<0.01	<5	21	<1
*Rep 74790412	0.04	790	5	0.07	<5	9.7	<0.01	<5	31	<1
74790413	<0.01	10	6	0.01	<5	2.4	<0.01	<5	<5	<1
74790414	0.08	220	13	<0.01	<5	5.2	0.01	<5	12	<1
74790415	0.13	560	<5	0.10	<5	40.9	<0.01	<5	13	<1
74790416	0.02	220	10	0.04	<5	59.0	0.01	<5	86	2
74790417	0.06	180	11	0.13	<5	10.0	<0.01	<5	19	<1
74790418	0.04	7590	<5	0.09	<5	5.4	<0.01	<5	12	<1
74790419	0.10	80	15	0.06	<5	77.3	0.01	<5	<5	<1
74790420	2.83	1740	40	0.36	15	344	1.49	293	152	1
74790421	0.03	750	5	0.10	<5	9.1	<0.01	<5	13	<1
74790422	0.03	2330	7	0.07	<5	7.5	<0.01	12	81	<1
74790423	<0.01	70	11	0.01	<5	3.0	<0.01	<5	<5	<1
74790424	0.12	130	14	0.09	<5	87.1	0.02	<5	9	<1
*Rep 74790424	0.13	130	<5	0.10	<5	84.8	0.02	<5	13	<1
74790426	1.01	180	24	<0.01	<5	14.4	0.09	18	82	<1
74790427	0.17	140	7	0.06	<5	197	0.04	6	7	<1
74790428	0.23	200	13	<0.01	<5	179	0.10	14	15	<1
74790429	0.03	130	131	0.09	<5	72.2	<0.01	<5	9	<1
74790430	0.03	90	8	0.12	<5	79.5	<0.01	<5	<5	<1
74790431	<0.01	220	8	0.10	<5	26.6	<0.01	<5	7	<1
74790432	0.01	630	13	0.10	<5	13.3	<0.01	6	60	<1
74790433	0.02	60	<5	<0.01	<5	3.7	<0.01	<5	<5	<1
74790434	0.19	150	8	0.09	<5	50.6	0.01	<5	24	<1

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Element Method Det.Lim. Units	As @ICM90A ppm	Bi @ICM90A ppm	Cd @ICM90A ppm	Ce @ICM90A ppm	Co @ICM90A ppm	Cs @ICM90A ppm	Dy @ICM90A ppm	Er @ICM90A ppm	Eu @ICM90A ppm	Ga @ICM90A ppm
74790400	<5	<0.1	<0.2	0.6	<0.5	<0.1	<0.05	<0.05	0.09	<1
*Rep 74790400	<5	<0.1	<0.2	0.3	<0.5	<0.1	<0.05	<0.05	0.07	<1
74790401	<5	0.5	22.1	126	121	0.2	19.0	12.2	3.09	19
74790402	<5	80.7	10.0	743	0.7	0.1	<0.05	<0.05	INF	16
74790403	<5	0.1	<0.2	0.7	<0.5	<0.1	<0.05	<0.05	0.08	<1
74790404	<5	0.3	<0.2	2.2	<0.5	8.7	0.27	0.14	0.07	20
74790405	<5	6.0	0.3	3.7	0.7	2.2	1.04	0.52	0.37	17
74790406	8	0.8	<0.2	1.2	<0.5	44.5	<0.05	<0.05	0.09	39
74790407	12	0.4	<0.2	0.6	<0.5	30.0	<0.05	<0.05	0.06	37
74790408	7	1.2	<0.2	1.7	0.9	56.4	0.10	<0.05	0.09	46
74790409	7	5.8	0.2	0.7	<0.5	64.9	<0.05	<0.05	0.08	55
74790410	<5	11.2	0.2	1.5	<0.5	25.7	0.35	0.15	0.26	13
74790411	<5	18.0	0.2	3.5	0.6	1.1	0.65	0.40	0.29	14
74790412	<5	1.6	<0.2	1.3	<0.5	27.5	0.31	0.15	0.07	24
*Rep 74790412	<5	1.8	0.2	1.4	<0.5	26.9	0.30	0.16	0.07	24
74790413	<5	<0.1	<0.2	0.3	<0.5	0.1	<0.05	<0.05	0.07	<1
74790414	<5	4.5	<0.2	1.2	<0.5	3.6	0.49	0.32	0.08	22
74790415	<5	4.0	0.2	5.3	<0.5	5.1	0.85	0.75	0.13	14
74790416	<5	<0.1	<0.2	0.3	<0.5	488	<0.05	<0.05	0.07	179
74790417	<5	4.3	<0.2	2.0	<0.5	22.5	0.39	0.18	0.10	22
74790418	<5	16.9	0.8	2.7	<0.5	12.2	1.57	0.95	0.07	17
74790419	<5	4.0	<0.2	3.0	<0.5	2.7	1.11	0.72	0.23	14
74790420	<5	<0.1	0.4	75.5	42.4	5.7	7.02	4.08	3.26	22
74790421	<5	1.8	0.4	1.8	<0.5	29.7	0.47	0.19	0.07	21
74790422	<5	1.1	0.3	1.1	<0.5	24.0	0.38	0.15	0.06	24
74790423	<5	<0.1	<0.2	0.4	<0.5	0.1	0.08	<0.05	0.09	<1
74790424	<5	5.5	<0.2	9.0	0.6	3.5	2.66	1.50	0.26	22
*Rep 74790424	<5	5.4	0.3	9.9	0.5	3.5	2.92	1.38	0.28	22
74790426	<5	<0.1	<0.2	0.7	3.3	0.1	0.05	<0.05	0.10	21
74790427	<5	0.2	<0.2	34.7	1.4	2.4	1.27	0.48	0.58	16
74790428	<5	0.1	<0.2	44.0	2.0	2.3	0.84	0.34	0.62	17
74790429	5	1.3	<0.2	0.8	<0.5	49.2	<0.05	<0.05	0.07	40
74790430	<5	0.3	0.2	1.7	<0.5	8.2	0.26	0.18	0.18	12
74790431	<5	0.6	<0.2	8.6	<0.5	52.1	<0.05	<0.05	0.06	44
74790432	8	0.2	<0.2	2.0	1.1	14.0	<0.05	<0.05	0.08	50
74790433	<5	<0.1	<0.2	0.3	<0.5	0.2	<0.05	<0.05	0.06	<1
74790434	<5	<0.1	<0.2	3.5	<0.5	3.5	0.79	0.40	0.17	18

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Element Method Det.Lim. Units	Gd @ICM90A 0.05 ppm	Ge @ICM90A 1 ppm	Hf @ICM90A 1 ppm	Ho @ICM90A 0.05 ppm	In @ICM90A 0.2 ppm	La @ICM90A 0.1 ppm	Lu @ICM90A 0.4 ppm	Mo @ICM90A 2 ppm	Nb @ICM90A 1 ppm	Nd @ICM90A 0.1 ppm
74790400	0.07	<1	<1	<0.05	<0.2	0.4	<0.05	<2	6	0.3
*Rep 74790400	0.07	<1	<1	<0.05	<0.2	0.2	<0.05	<2	3	0.3
74790401	15.7	5	10	4.10	1.0	54.8	1.58	<2	1810	63.7
74790402	<0.05	<1	16	<0.05	<0.2	0.2	<0.05	95	24	0.2
74790403	<0.05	<1	<1	<0.05	<0.2	0.1	<0.05	<2	5	0.1
74790404	0.11	2	<1	<0.05	<0.2	1.2	<0.05	<2	9	0.8
74790405	0.69	1	<1	0.22	<0.2	2.0	<0.05	<2	5	1.3
74790406	<0.05	4	<1	<0.05	<0.2	0.7	<0.05	<2	73	0.4
74790407	<0.05	3	<1	<0.05	<0.2	0.3	<0.05	<2	37	0.2
74790408	0.11	4	<1	<0.05	<0.2	0.6	<0.05	<2	51	0.4
74790409	<0.05	4	<1	<0.05	<0.2	0.3	<0.05	<2	79	0.3
74790410	0.20	2	<1	0.06	<0.2	0.8	<0.05	<2	3	0.6
74790411	0.48	1	<1	0.13	<0.2	2.5	0.11	<2	2	1.6
74790412	0.18	2	2	0.06	<0.2	0.6	<0.05	<2	9	0.4
*Rep 74790412	0.16	3	2	0.05	<0.2	0.7	<0.05	<2	9	0.4
74790413	<0.05	<1	<1	<0.05	<0.2	0.1	<0.05	<2	<1	0.1
74790414	0.19	1	<1	0.09	<0.2	0.7	<0.05	<2	8	0.5
74790415	0.41	2	1	0.19	<0.2	3.8	0.18	<2	2	2.1
74790416	<0.05	4	<1	<0.05	<0.2	0.1	<0.05	<2	142	<0.1
74790417	0.26	2	<1	0.06	<0.2	1.0	<0.05	<2	7	0.7
74790418	0.55	4	2	0.30	<0.2	1.1	0.17	<2	3	1.0
74790419	0.44	1	<1	0.23	<0.2	1.6	0.09	<2	2	0.9
74790420	8.56	2	3	1.48	<0.2	33.3	0.52	<2	13	48.7
74790421	0.30	2	1	0.06	<0.2	0.8	<0.05	<2	6	0.6
74790422	0.14	3	2	0.07	<0.2	0.5	<0.05	<2	7	0.4
74790423	0.07	<1	<1	<0.05	<0.2	0.2	<0.05	<2	<1	0.2
74790424	2.09	1	<1	0.51	<0.2	4.4	0.10	<2	5	4.3
*Rep 74790424	2.17	1	<1	0.53	<0.2	4.6	0.13	<2	5	4.4
74790426	<0.05	1	<1	<0.05	<0.2	0.4	<0.05	<2	<1	0.2
74790427	1.84	1	2	0.21	<0.2	18.0	<0.05	<2	4	13.0
74790428	1.84	1	3	0.13	<0.2	24.1	<0.05	<2	6	15.6
74790429	<0.05	4	1	<0.05	<0.2	0.4	<0.05	<2	63	0.2
74790430	0.16	2	<1	0.05	<0.2	1.1	<0.05	<2	1	0.5
74790431	0.06	5	<1	<0.05	<0.2	0.6	<0.05	<2	35	0.2
74790432	0.08	5	2	<0.05	<0.2	1.5	<0.05	<2	80	0.6
74790433	<0.05	<1	<1	<0.05	<0.2	0.2	<0.05	<2	<1	0.2
74790434	0.43	2	<1	0.15	<0.2	1.9	<0.05	<2	2	1.4

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Element Method Det.Lim. Units	Pb @ICM90A ppm	Pr @ICM90A ppm	Rb @ICM90A ppm	Sb @ICM90A ppm	Sm @ICM90A ppm	Sn @ICM90A ppm	Ta @ICM90A ppm	Tb @ICM90A ppm	Th @ICM90A ppm	Tl @ICM90A ppm
74790400	<5	0.08	0.5	<0.1	<0.1	<1	<0.5	<0.05	0.4	<0.5
*Rep 74790400	<5	0.06	0.6	<0.1	<0.1	<1	<0.5	<0.05	0.1	<0.5
74790401	86	15.9	6.5	1.0	13.5	12	9.6	3.15	62.9	<0.5
74790402	820	<0.05	0.7	98.8	<0.1	95	<0.5	0.12	0.3	<0.5
74790403	<5	<0.05	0.2	0.1	<0.1	<1	<0.5	<0.05	0.3	<0.5
74790404	5	0.23	124	<0.1	0.1	9	0.8	<0.05	0.6	0.6
74790405	24	0.41	67.8	<0.1	0.5	3	<0.5	0.17	0.9	<0.5
74790406	7	0.13	653	<0.1	<0.1	47	21.4	<0.05	1.1	4.0
74790407	5	<0.05	417	<0.1	<0.1	33	6.3	<0.05	0.4	2.5
74790408	<5	0.13	516	<0.1	<0.1	34	13.5	<0.05	0.6	3.0
74790409	<5	0.07	166	0.1	<0.1	18	50.7	<0.05	0.7	1.1
74790410	48	0.17	304	<0.1	0.2	5	0.8	0.05	0.6	1.7
74790411	11	0.45	49.4	<0.1	0.4	3	<0.5	0.11	0.7	<0.5
74790412	7	0.12	370	0.1	0.2	13	1.5	0.05	1.4	1.6
*Rep 74790412	7	0.15	364	<0.1	0.2	14	1.6	<0.05	1.7	1.7
74790413	<5	<0.05	1.1	<0.1	<0.1	<1	<0.5	<0.05	0.2	<0.5
74790414	<5	0.15	122	<0.1	0.2	9	<0.5	0.06	0.6	0.5
74790415	23	0.64	64.6	<0.1	0.5	2	<0.5	0.12	1.2	<0.5
74790416	<5	<0.05	6200	<0.1	<0.1	226	94.5	<0.05	0.3	24.9
74790417	12	0.24	206	<0.1	0.3	12	1.0	0.07	1.4	1.1
74790418	11	0.27	201	<0.1	0.3	4	<0.5	0.24	1.5	1.1
74790419	12	0.29	51.2	<0.1	0.3	3	<0.5	0.13	1.2	<0.5
74790420	5	10.4	46.2	<0.1	8.9	1	<0.5	1.34	1.6	<0.5
74790421	9	0.19	301	<0.1	0.2	8	<0.5	0.10	0.9	1.6
74790422	<5	0.12	198	<0.1	0.1	27	1.5	0.05	1.0	0.8
74790423	<5	0.06	1.2	<0.1	<0.1	<1	<0.5	<0.05	0.3	<0.5
74790424	23	1.16	114	<0.1	1.5	3	<0.5	0.49	3.6	<0.5
*Rep 74790424	24	1.22	112	<0.1	1.8	2	<0.5	0.50	4.0	<0.5
74790426	<5	0.08	1.2	<0.1	<0.1	3	<0.5	<0.05	0.2	<0.5
74790427	27	3.83	82.1	<0.1	2.6	1	<0.5	0.28	9.3	<0.5
74790428	24	4.85	144	<0.1	2.3	<1	<0.5	0.21	13.9	0.7
74790429	8	0.09	976	<0.1	<0.1	22	49.8	<0.05	0.5	7.7
74790430	33	0.16	103	<0.1	0.2	2	<0.5	<0.05	0.2	<0.5
74790431	<5	0.08	1080	<0.1	<0.1	51	11.1	<0.05	0.5	8.7
74790432	<5	0.17	236	<0.1	<0.1	43	20.8	<0.05	1.1	1.3
74790433	<5	<0.05	2.9	<0.1	<0.1	29	<0.5	<0.05	0.2	<0.5
74790434	6	0.38	38.4	<0.1	0.4	7	<0.5	0.10	1.2	<0.5

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Element Method Det.Lim. Units	Tm @ICM90A 0.05 ppm	U @ICM90A 0.05 ppm	W @ICM90A 1 ppm	Y @ICM90A 0.5 ppm	Yb @ICM90A 0.1 ppm	Zr @ICM90A 0.5 ppm
74790400	<0.05	<0.05	<1	<0.5	<0.1	1.8
*Rep 74790400	<0.05	<0.05	<1	<0.5	<0.1	<0.5
74790401	1.66	4.63	<1	109	10.8	515
74790402	<0.05	0.09	72	<0.5	79.9	800
74790403	<0.05	<0.05	<1	<0.5	<0.1	3.9
74790404	<0.05	4.88	2	1.6	0.3	8.4
74790405	0.08	3.02	3	6.4	0.5	8.1
74790406	<0.05	1.15	2	<0.5	<0.1	5.2
74790407	<0.05	0.93	<1	<0.5	<0.1	2.0
74790408	<0.05	2.33	1	<0.5	<0.1	6.7
74790409	<0.05	0.56	<1	<0.5	<0.1	2.1
74790410	<0.05	1.12	2	1.9	0.2	7.4
74790411	0.06	4.09	3	4.8	0.4	2.4
74790412	<0.05	1.61	1	2.1	0.2	29.8
*Rep 74790412	<0.05	1.71	1	2.1	0.2	27.1
74790413	<0.05	<0.05	<1	<0.5	<0.1	0.9
74790414	0.05	0.49	5	3.3	0.4	5.3
74790415	0.14	8.18	<1	7.3	1.2	29.1
74790416	<0.05	0.38	8	<0.5	<0.1	1.9
74790417	<0.05	6.04	12	2.5	0.2	17.0
74790418	0.16	7.04	<1	13.2	1.4	50.9
74790419	0.12	3.34	2	8.2	0.9	14.2
74790420	0.54	0.34	<1	40.3	3.5	143
74790421	<0.05	5.54	<1	2.8	0.2	21.4
74790422	<0.05	4.50	1	2.6	0.3	44.3
74790423	<0.05	<0.05	<1	<0.5	<0.1	1.5
74790424	0.17	4.29	4	16.0	1.1	20.3
*Rep 74790424	0.18	4.06	4	16.1	1.2	19.7
74790426	<0.05	0.13	<1	<0.5	<0.1	<0.5
74790427	0.07	1.86	<1	5.9	0.4	57.3
74790428	<0.05	2.92	<1	3.7	0.3	115
74790429	<0.05	1.87	<1	<0.5	<0.1	6.8
74790430	<0.05	0.63	<1	2.1	0.2	2.1
74790431	<0.05	2.27	<1	<0.5	<0.1	4.6
74790432	<0.05	4.12	<1	<0.5	<0.1	24.5
74790433	<0.05	<0.05	<1	<0.5	<0.1	<0.5
74790434	0.07	2.95	2	5.0	0.4	16.6

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