



REPORT

ON

**THE 2007 EXPLORATION PROGRAM
FOR THE
KENORA NORTH URANIUM PROJECT**

**KENORA MINES & MINERALS DIVISION
ONTARIO**

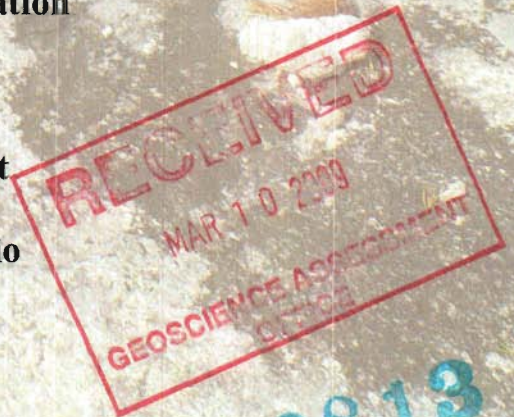
For

Quest Uranium Corporation

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9-40813



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1.0 Summary

The Kenora North Uranium Project is a contiguous block of 64 mining claims totaling 846 claim units (13,500 ha). This is approximately 135 square km and covers 48 km of strike length on airborne radiometric anomalies.

The property is located 75 km north of Kenora Ontario. These claims were staked by the Freewest from February 2007 to Nov 2007 and are 100% owned. The uranium assets of Freewest have been subsequently transferred to Quest Uranium, a related corporation.

Prospecting with a scintillometer from June to November 2007 located numerous areas of uranium mineralization. Several historic showings were located, evaluated and sampled. Potential exists for significant REE and lithium-tantalum bearing zones.

Significant uranium mineralization occurs on a local scale and in “corridor” style zones on the property. Potential exists at Kenora North for large tonnage low to medium grade pegmatite hosted uranium mineralization.

2.0 Introduction and Terms of Reference

The author was retained by Don Hoy , Vice President of Exploration for Freewest Resources Canada Inc.(Freewest), to supervise an exploration program in progress in the Kenora North area. The emphasis on the program was to locate and evaluate known uranium occurrences and determine the potential of the area for economic uranium mineralization.

The Kenora North Project was originally staked as two separate claim blocks of 32 units each to cover historic showings known as the CanFer and the Pancer (Davidson) Occurrences. Initial positive results prompted Freewest to acquire more claims to cover almost 50 km of strike length on favourable radiometric airborne anomalies.

The work program was initiated in May 2007 with a prospecting crew. The property was expanded by staking from July to November 2007. Two prospecting crews were on site in October 2007 and preliminary geologic evaluation began. The project terminated in late November due to winter conditions.

3.0 Location and Access

The Property is located 75 road km north of Kenora Ontario. The property is accessed from the English River Road, an all weather logging road which crosses the English River at Separation Rapids, a few km south of the property. The logging road network continues to Ear Falls and Red Lake. (Figure 1)

The eastern half of the Property is directly road accessible. The main road and older haul roads provide access to the Lennan-Scotty Lakes area at the east end of the property. The southwest portion of the property can be accessed from the Avalon Road to the Big Whopper petalite deposit using ATVs. The western portion of the property on the English River is accessible by boat from Separation Rapids or Caribou Falls, or by aircraft from Kenora.

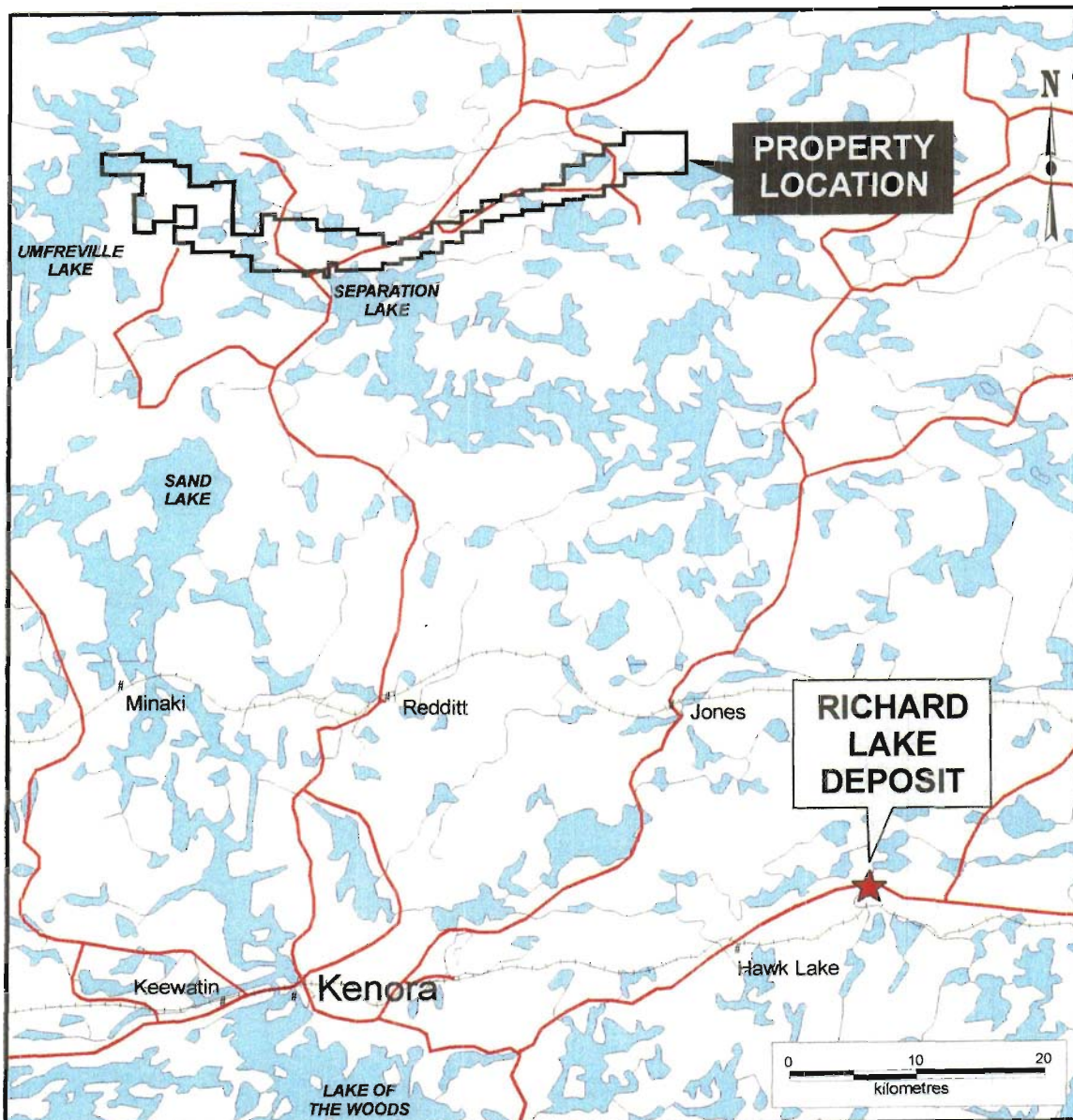


Figure 1. Location Map

4.0 Local Resources, Infrastructure, Climate

Kenora is a full service community of 15,000 people and has a mining rich history, particularly in gold mining. Logging is an integral part of the local economy. The main access road, the English River Road, is well maintained. The property is road accessible on a year round basis

The English River system is considered a tourism destination for sport fisherman and hunting. Outfitters are located on the river system and on fly-in lakes throughout the area. The original White Dog First Nations Reserve is located on an island several kilometers west of the CanFer Occurrence. This community is now located at Caribou Falls.

The town of Redditt is 50 km south of the property on the main CNR line. Umfreville Lake is a reservoir on the English River for the hydroelectric station at Caribou Falls, and a power line from dam to the main power grid is approximately 30 km west of the property.

The climate is northern temperate with normal summer temperatures up to 35°C and winter temperatures as low as -40°C. The eastern limit of the Prairies is about 100 km southwest of the Property and results in windier conditions than most areas of northwestern Ontario. Winds are typically persistent westerly and thunderstorms are common in the summer.

Weather data for Kenora is presented in Table 1.

Location of weather station: 49.8 N, 94.4 W, altitude 407 m

	Data Period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean Maximum Temperature (deg C)	1938-1990	-13.1	-9	-1.1	8.5	16.8	21.6	24.7	22.9	16.3	9.3	-1.2	-10.2
Meant Temperature (deg C)	1938-1990	-17.8	-14	-6.2	3.3	11.2	16.4	19.6	17.9	11.8	5.5	-4.5	-14.4
Mean Minimum Temperature (deg C)	1938-1990	-22.7	-19	-11	-2	5.4	11.1	14.5	12.9	7.3	1.6	-7.9	-18.7
Rainfall Amount (mm)	1938-1990	27.7	21	31	37	56.1	100	89.9	83.8	73.8	46	38	28.2
Days with Rain (>0.2mm of rainfall)	1938-1990	15	11	10	9	11	12	12	12	11	12	13	14

Table 1. Kenora Weather Data (After Hong Kong Observatory data).

5.0 Property Description

The Property consists of 64 unpatented mining claims totaling 846 units. This totals approximately 135 square km or 13,500 hectares. The claims are contiguous and the Kenora North Project presently covers almost 50 km of strike length on favourable radiometric anomalies. (Maps 5 & 6 in back pocket)

The Kenora North Project was originally staked as two separate claim blocks of 32 units each. These claims covered the historic showings described in government publications (Robertson 1968) known as the CanFer and the Pancer (Davidson) Occurrences. To cover more of the airborne radiometric anomaly, Freewest acquired claims between the Pancer and CanFer Blocks and acquired what became the Thor Block (261 units). Initial prospecting results from the Thor Block area prompted Freewest to expand from the Pancer Property around the Thor Block and to 25 km to the NE to the Scotty Lake area (521 units).

Table 2. Kenora North Claim Information

Kenora North Project						
Kenora Mining Division			Claims Summary			
Location west to east as recorded	Number of Claims (as recorded)	Claim Number	Number of Units	Recording Date	Due Date	Work Required
Canfer	2	4210840	16	Mar 14/07	Mar 14/09	\$6,400
		4210841	16	Mar 14/07	Mar 14/09	\$6,400
Canfer -Pancer Ext	10	4215799	12	Sep 13/07	Sep 13/09	\$4,800
		4216280	15	Sep 13/07	Sep 13/09	\$6,000
		4216281	15	Sep 13/07	Sep 13/09	\$6,000
		4216282	2	Sep 13/07	Sep 13/09	\$800
		4216283	9	Sep 13/07	Sep 13/09	\$3,600
		4216284	16	Sep 13/07	Sep 13/09	\$6,400
		4216285	16	Sep 13/07	Sep 13/09	\$6,400
		4216286	16	Sep 13/07	Sep 13/09	\$6,400
		4216287	1	Sep 13/07	Sep 13/09	\$400
		Paterson Lake	1	4216288	16	Sep 13/07
		4216289	12	Sep 13/07	Sep 13/09	\$4,800
Pancer	2	4210884	16	Mar 12/07	Mar 12/09	\$6,400
		4210885	16	Mar 12/07	Mar 12/09	\$6,400
Canfer -Pancer Ext	6	4221621	10	Aug 27/07	Aug 27/09	\$4,000
		4221622	7	Aug 27/07	Aug 27/09	\$2,800
		4221623	8	Aug 27/07	Aug 27/09	\$3,200
		4221624	10	Aug 27/07	Aug 27/09	\$4,000
		4221625	16	Aug 27/07	Aug 27/09	\$6,400
		4221626	16	Aug 27/07	Aug 27/09	\$6,400
THOR	7	4218865	16	Aug 22/07	Aug 22/09	\$6,400

Main Block		4218866	16	Aug 22/07	Aug 22/09	\$6,400	
		4218867	13	Aug 22/07	Aug 22/09	\$5,200	
		4218868	1	Aug 22/07	Aug 22/09	\$400	
		4218869	2	Aug 22/07	Aug 22/09	\$800	
		4218870	8	Aug 22/07	Aug 22/09	\$3,200	
		4218871	8	Aug 22/07	Aug 22/09	\$3,200	
Thor Extension - west	6	4219470	16	Nov 23/07	Nov 23/09	\$6,400	
		4219471	16	Nov 23/07	Nov 23/09	\$6,400	
		4219472	12	Nov 23/07	Nov 23/09	\$4,800	
		4219473	8	Nov 23/07	Nov 23/09	\$1,600	
		4219474	16	Nov 23/07	Nov 23/09	\$6,400	
		4219475	16	Nov 23/07	Nov 23/09	\$6,400	
Thor Extension - East	6	4219476	16	Nov 23/07	Nov 23/09	\$6,400	
		4219477	16	Nov 23/07	Nov 23/09	\$6,400	
		4219478	16	Nov 23/07	Nov 23/09	\$6,400	
Treelined Lake Area		4219479	4	Nov 23/07	Nov 23/09	\$1,600	
		4219480	15	Nov 23/07	Nov 23/09	\$6,000	
		4219481	16	Nov 23/07	Nov 23/09	\$6,400	
Thor Extension - South	2	4219395	9	Nov 16/07	Nov 16/09	\$3,600	
		4219396	9	Nov 16/07	Nov 16/09	\$3,600	
Lennan Road Ext	5	4219509	16	Nov 29/07	Nov 29/09	\$6,400	
		4219510	16	Nov 29/07	Nov 29/09	\$6,400	
		4219511	16	Nov 29/07	Nov 29/09	\$6,400	
		4219512	4	Nov 29/07	Nov 29/09	\$1,600	
Lennan Lake Area		4219513	16	Nov 29/07	Nov 29/09	\$6,400	
	4	4219514	16	Nov 29/07	Nov 29/09	\$6,400	
		4219515	16	Nov 29/07	Nov 29/09	\$6,400	
		4219516	16	Nov 29/07	Nov 29/09	\$6,400	
		4219517	16	Nov 29/07	Nov 29/09	\$6,400	
	Helder-Scotty Lake	7	4219518	16	Nov 27/07	Nov 27/09	\$6,400
			4219519	16	Nov 27/07	Nov 27/09	\$6,400
		4219520	12	Nov 27/07	Nov 27/09	\$4,800	
		4219397	16	Nov 27/07	Nov 27/09	\$6,400	
Scotty Lake Area		4219404	16	Nov 27/07	Nov 27/09	\$6,400	
		4219405	16	Nov 27/07	Nov 27/09	\$6,400	
		4219406	16	Nov 27/07	Nov 27/09	\$6,400	
	6	4219407	16	Nov 28/07	Nov 27/09	\$6,400	
		4219508	16	Nov 28/07	Nov 27/09	\$6,400	
		4219505	16	Nov 28/07	Nov 27/09	\$6,400	
		4219507	16	Nov 28/07	Nov 27/09	\$6,400	
		4219504	16	Nov 28/07	Nov 27/09	\$6,400	
		4219506	16	Nov 28/07	Nov 27/09	\$6,400	
Kenora North totals	64	claims	846	units	per year	\$336,800	

6.0 Geological Setting

6.1 Regional Geology

The boundary of the Winnipeg River and English River Subprovinces is marked by the Separation Lake Greenstone Belt (Breaks 1991; and Sanborn–Barrie 1988). The greenstone belt is typically a thin remnant or septum that is less than 200 m thick. In the Separation Rapids area, the volcano-sedimentary belt achieves a thickness of several kilometers. The Kenora North property is located along this trend and is underlain by mostly metasediments and granitoids of the English River Subprovince (Figure 2).

The volcanics of the Separation Lake Greenstone belt are characterized by amphibolitised pillowed mafic volcanics which host thin sulphide and/or oxide iron formations. These are interpreted to be unconformably overlain or in fault contact with migmatized sedimentary rocks to the north. A conglomerate unit is often found near the contact. Amphibolite to granulite grade of metamorphism in the belt has altered the iron sulphide in the iron formations to silver coloured pyrrhotite.

The English River Subprovince is bounded to the north by the Uchi Subprovince defined by Sydney Lake-Lake St. Joseph Fault. This contact is approximately twenty (20) km north of the property. The English River Subprovince is characterized by older clastic metasediments in a variably migmatized terraine. Metamorphic grades vary from medium to granulite facies in the metasediments. Peraluminous granitic plutons, derived from regional anatexis intrude the metasediments along the entire English River Subprovince, especially near granulite facies zones (Breaks 1991).

The Winnipeg River Subprovince is characterized by felsic plutonic batholiths and plutons with irregular gneissic belts south of the Separation Lake belt. Further south and included in this terraine is the granite-greenstone domain of the western Wabigoon Subprovince.

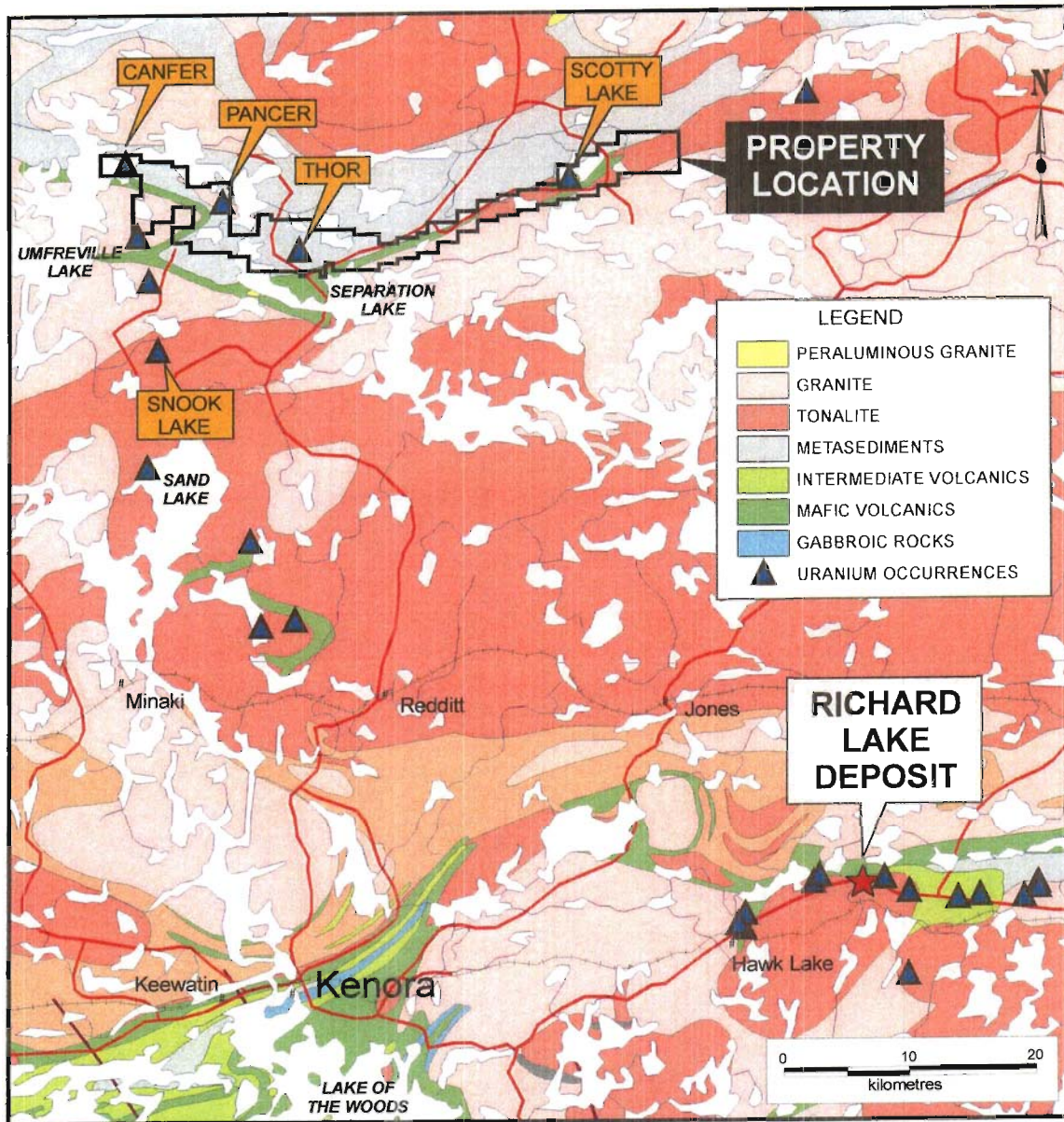


Figure 2. Regional Geology with Uranium Occurrences

6.2 Geology of the Kenora North Property

The Kenora North Project spans a 50 kilometre-long segment along or near the contact of the English River and Winnipeg River Subprovinces. This contact is defined by the Separation Rapids Greenstone Belt. At the eastern end of the Project area, an elongate radiometric trend and the mafic volcanic unit are a coincident trend (Lennan Lake Road area). From Trout Lake to the western boundary (northwest), the Project is underlain by metasediments and migmatites of the English River Subprovince.

The metasediments on the property were observed to be amphibolite grade biotite schists. These are typically massive to foliated metagreywacke with varying degrees of anatexis. A conglomeratic unit was noted south of Trout Lake, near the mafic volcanic contacts. To the west, the sediments are folded around the Paterson Lake Stock, a magnetite bearing syntectonic pluton.

No diabase or lamprophyre intrusives were noted.



Plate 1. Anatectic textures, south of Thor Pegmatite

7.0 Exploration History of the Kenora North Project Area

Uranium exploration in the area followed cycles in the industry, the mid 1950s and the early 1970s were the most active. The area was mostly overlooked in the early 1980s when uranium exploration focused on high grade unconformity-type targets. Up until the 1970's, access was via float plane.

Prospecting in the early 1950's located some of the known occurrences on the property. Few records exist of this early work. Several base metal occurrences were located in the sedimentary-volcanic belt that underlies most of the property.

In the late 1960s and early 70s, the area was active for uranium and for iron and base metals. Most of the historic work on record is from this time period. The CanFer Property was being explored for iron when radioactive pegmatites were discovered. The Pancer Property was being explored with trenching and some diamond drilling from 1969 to 1970. The company Urangasellschaft had claims in the area at this time.

Government airborne surveys were released in 1977. This information was one of the criteria used by the Freewest for acquiring the Kenora North Property.

In the late 1980s Champion Bear Resources assessed most of the project area for base metals and gold. Airborne surveys and intensive ground follow-up advanced to diamond drilling in 1992.

A graphite occurrence at the east end of Trout Lake was assessed for flake graphite potential in the late 1980's. This metasediment hosted formation is extensive and appears to have a maximum thickness of 60 m. in the Trout Lake area. This zone and numerous other thinner graphitic zones contain stringers and layers of magnetic pyrrhotite, chert and magnetite.

In the early 1980's, the first indications of petalite mineralization were noted by government geologists. This led to the discovery and development of the Big Whopper (Avalon Minerals) and Big Mac (Emerald Fields Resources) petalite deposits, primarily for lithium and rare earth metals. These Rare-Metal-Element dikes are derived from evolved fractionated sources and are hosted by mafic volcanics. The petalite dike trend continues on the east side of the English River where three minor petalite occurrences are within the Kenora North Property.

8.0 Uranium Deposit Types

The Kenora North uranium mineralization occurs in fresh unoxidized bedrock of the Canadian Shield. Mineralization is pegmatite type hosted by granitoid rocks intruding or formed from the partial melting of metasediments. The target is a large tonnage, low to medium grade deposit. Forty kilometers southeast of the Kenora North Property, the Richard Lake Deposit has historical shallow resources reported at 650,000 tonnes @ 0.1% U_3O_8 (Robertson 1968). The deposit dimensions are on the order of 10 feet by 700 feet (3 x 200 m).

Pegmatite type deposits are often compared to a large low grade deposit typified by the Rossing Mine in Namibia. Here granitic hosted mineralization averaging about 350 ppm U_3O_8 is being mined on a large scale. In light of the economics of uranium, large tonnage lower grade deposits are being reconsidered as a potential source. At Rossing, most (60%) of the uranium is uraninite (UO_2) and secondary oxides (carnotite-uranophane). A portion (5%) is betafite, a thorium-rare earth bearing oxide is that is not recovered in the acid processing.

At Rossing the host rocks are granitoids typified by leucogranite and associated phases varying from aplite to pegmatite. The uranium rich granitoids are emplaced along a trend of amphibolitized metasedimentary units including marbles. The granitoid source is interpreted to be anatexis of uranium "rich" metasediments.

Occurrences in the Kenora North Property are probably coeval with regional scale granulite zones, migmatization and the intrusion of local or large scale granite plutons such as the Paterson Lake Batholith, the Gone Lake Stock and the Treelined Lake Granite. The CanFer and Pancer Occurrences may be spatially related to the Paterson Lake Batholith.

Uranium mineralization at Kenora North is hosted as two types. These are the palingenic type and the pegmatitic (magmatic) type. In the environment of the English River Subprovince, these types are probably related.

The palingenic type represents a localized accumulation of mineralizing fluids from a uranium rich source. The typical host is peralkaline granite (white leucogranite) where accumulations are related to regional scale granulite zones (Breaks 1989). White leucogranites are present at Thor, Pancer and the Canfer Occurrences described in this report.

The pegmatoid deposit is typical of a granitic melt on a larger scale. Uranium enrichment is a magmatic process where crystallization processes exclude uranium oxides until the later phases. These granites and pegmatites are more evolved and have higher potassium characterized by their pink to reddish colours.

On the Kenora North Property, the uranium occurrences often have characteristics of both styles. This suggests that the precursor rocks were anomalous in uranium.

9.0 Description of Uranium Occurrences

9.1 Thor Pegmatite Occurrence

Located 5 km north of Separation Rapids, immediately west of Trout Lake, this area is road accessible. The Thor Pegmatite is exposed on a ridge adjacent to a new logging road and recent clear cutting.

The Thor Occurrence is a new area of mineralization discovered by prospecting. Several old trenches were located, although no records of this work are available. No evidence of diamond drilling was observed.

The Pegmatite intrudes metasedimentary (biotite schist) country rock in a north-south discordant mass. Regional schistosity is east-west. The contacts of the pegmatite are not well exposed, although mapping was limited.

Metasedimentary rocks enclose the Thor Pegmatite to the east and west. To the south about 200 metres, the sediments become more siliceous and display anatexis features. Plate 1. A graphite-rich horizon is located in this stratigraphy. To the northeast and within 500 metres of the Pegmatite is a distinctive medium grained clotted leucogranite pluton. This type of granite is a peraluminous intrusion (part of the Treelined Lake Batholith, Breaks 1991 and is related to melting in granulite facies zones in the English River Subprovince. The Thor Pegmatite may be a feeder conduit or residual phase of this intrusion.

The pegmatite dyke itself is typically a coarse grained, pale grey to pink weathering, two feldspar pegmatite. Biotite is coarse grained with thin crystals, occasionally in radiating clusters called birdsclaw biotite. Muscovite micas were not common. The Thor Pegmatite does not appear to be zoned although finer grained phases occur, particularly near metasediment inclusions. Medium grained leucogranite is also present and is more common near the north end of the exposure.

Within the pegmatite are semi concordant metasediment inclusions, parallel to regional schistosity of the host metasediments. Inclusions are typically on the scale of 0.5 to 2 m in length with lens shaped outlines. Where resorption into the pegmatite melt has taken place, the inclusions are rounder (Plate 2). Occasionally the inclusions have minor reaction rims or show brecciated textures typical of intrusive movement.

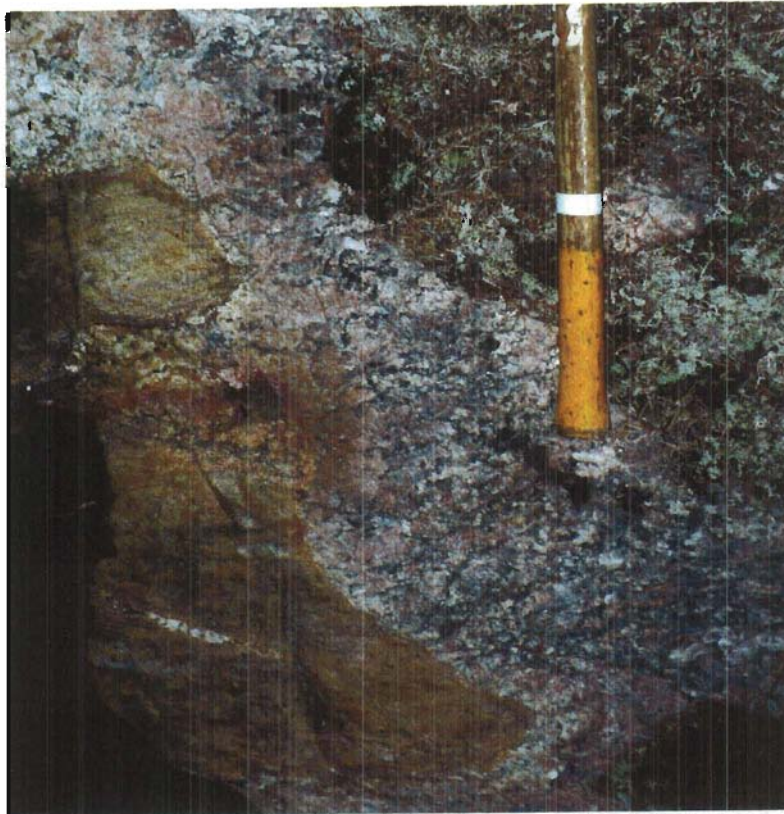


Plate 2. Inclusion contact, Thor Pegmatite, top right of photo is moss cover

The entire outcropping of pegmatite has high background count typically 600-1000 cps. Counts of 1500 cps are common. Yellow uranium oxide (carnotite) weathering can be found in patches and on biotite crystals in freshly broken samples. Counts over 3000 cps consistently yield uranium values over 500 ppm U_3O_8 .

In the vicinity of Thor Pegmatite over 200 samples were taken. Where access was good, most of the sampling was done using channel cut grab samples. West, south and east of the main pegmatite occurrence approximately 60 of the samples were chiseled grab (rock chip) samples.

For **196** samples, taken for uranium, **38** assayed higher than **1000 ppm U_3O_8** . (Table on Figure 3). The **average assay** for all these samples was **630 ppm U_3O_8** . High uranium content is often associated with finer grained phases of the pegmatite on strike with or adjacent to metasediment inclusions. These phases trend east-to west and may be associated with inclusion contacts.

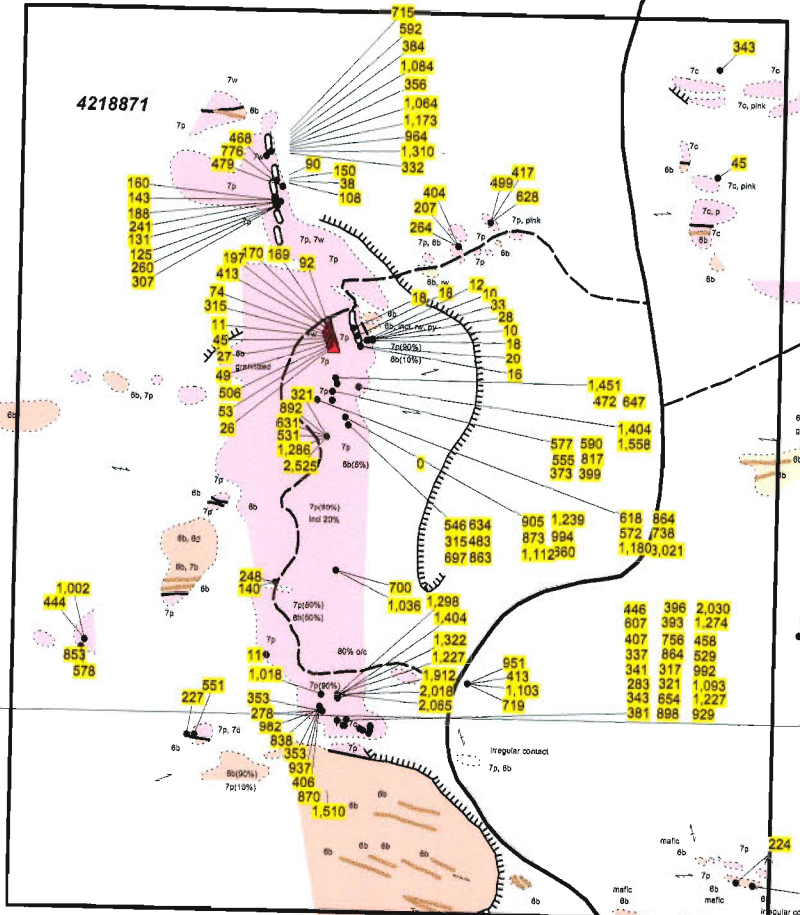
Uranium enriched mineralized zones are common along the entire north-south exposure of pegmatite. Thorium values are relatively low and Th/U ratios are typically <0.4 for samples > 200 ppm U. Samples with higher Th/U ratios usually contain elevated REEs, typically less than $<0.2\%$.

ASSAY DATA - 630ppm Average of 196 SAMPLES

SAMPLE No.	CPS	U(ppm)	U3O8(ppm)	Th(ppm)	SAMPLE No.	CPS	U(ppm)	U3O8(ppm)	Th(ppm)	SAMPLE No.	CPS	U(ppm)	U3O8(ppm)	Th(ppm)	SAMPLE No.	CPS	U(ppm)	U3O8(ppm)	Th(ppm)	
17211	450	6	7	143	213366	1000	136	160	54	213302	8000	756	882	104	213302	8000	756	882	104	
31420	1000	10	11	497	361693	2700	139	164	35	213354	1000	761	898	29	213354	1000	761	898	29	
252922	2500	11	13	45	361688	5700	155	183	211	213312	5000	767	905	85	213312	5000	767	905	85	
252921	3000	12	14	8	213360	800	169	188	61	252947	4000	787	929	127	252947	4000	787	929	127	
213397	1000	14	17	7	17209	3800	168	198	347	213334	2800	794	937	30	213334	2800	794	937	30	
213396	1000	16	19	8	213382	7000	175	207	213	252929	10000	806	951	272	252929	10000	806	951	272	
252917	2500	17	20	5	361687	6500	190	224	341	213372	8000	817	964	311	213372	8000	817	964	311	
252914	2300	19	22	16	213251	3700	192	227	220	213367	>10000	818	965	364	213367	>10000	818	965	364	
17220	5600	20	23	44	17224	3800	200	236	561	252948	2150	832	982	54	252948	2150	832	982	54	
17225	2100	27	32	141	213359	800	204	241	103	213349	1000	841	992	23	213349	1000	841	992	23	
213363	800	32	38	49	31413	200	207	244	98	213308	4000	842	994	62	213308	4000	842	994	62	
17215	1850	33	39	80	213280	6600	210	248	515	213255	6000	849	1002	331	213255	6000	849	1002	331	
252920	3000	33	39	62	213356	700	220	260	23	213300	4000	863	1018	312	213300	4000	863	1018	312	
17219	2700	35	41	60	213381	7000	224	264	213	213262	9100	878	1036	323	213262	9100	878	1036	323	
17216	3700	35	42	58	361675	7400	230	271	204	213365	>10000	895	1056	298	213365	>10000	895	1056	298	
361680	2700	38	45	41	252949	6100	236	278	157	213374	8000	902	1064	443	213374	8000	902	1064	443	
213395	1000	43	51	7	213407	>8400	243	287	147	213376	8000	919	1084	411	213376	8000	919	1084	411	
213257	4500	45	53	277	213355	700	260	307	54	213353	1000	926	1093	24	213353	1000	926	1093	24	
361694	2800	45	53	20	213318	7000	267	315	158	252927	>10000	935	1103	334	252927	>10000	935	1103	334	
213258	4500	47	55	132	252945	92000	269	317	183	213310	11000	935	1103	423	213310	11000	935	1103	423	
361684	1300	52	62	103	213301	5000	272	321	105	213317	7000	937	1112	79	213317	7000	937	1112	79	
361683	3200	57	67	104	252944	92000	272	321	193	213266	7400	938	1113	429	213266	7400	938	1113	429	
361691	4000	57	67	116	361682	off scale	276	326	647	213350	1000	954	1180	381	213350	1000	954	1180	381	
17221	5100	58	68	143	213370	8000	281	332	35	213295	4000	1040	1227	421	213295	4000	1040	1227	421	
361676	4200	64	75	99	213342	3500	286	337	83	17217	3000	1050	1239	63	17217	3000	1050	1239	63	
361674	2600	67	79	113	252942	4000	289	341	160	213309	5000	1050	1239	74	213309	5000	1050	1239	74	
17218	6000	71	84	72	213339	4000	291	343	79	213343	4100	1080	1274	182	213343	4100	1080	1274	182	
361682	2200	72	85	146	361681	5200	291	343	2	213305	7000	1090	1286	123	213305	7000	1090	1286	123	
213406	>8400	75	89	71	213375	8000	302	356	36	213371	8000	1100	1298	518	213371	8000	1100	1298	518	
213361	800	76	90	64	213322	7000	316	373	241	213298	8000	1110	1310	416	213298	8000	1110	1310	416	
213408	>8400	78	92	86	213340	4000	323	381	97	213268	4000	1120	1322	458	213268	4000	1120	1322	458	
252916	3000	78	92	31	213377	8000	325	384	122	252941	12000	1190	1404	448	252941	12000	1190	1404	448	
361690	4200	81	95	64	213391	7000	330	389	216	213389	>10000	1210	1428	364	213389	>10000	1210	1428	364	
252930	2400	82	97	23	213337	4000	333	393	81	213263	7100	1230	1451	450	213263	7100	1230	1451	450	
17223	2700	85	100	7	213338	4000	336	396	82	213331	2800	1280	1510	45	213331	2800	1280	1510	45	
361695	1600	87	102	42	213319	5000	338	399	160	213267	12000	1320	1558	466	213267	12000	1320	1558	466	
361689	3300	89	105	60	213336	2800	342	404	260	361679	6500	1410	1664	290	361679	6500	1410	1664	290	
213382	800	92	108	98	213333	2800	344	406	125	252940	6000	1620	1912	559	252940	6000	1620	1912	559	
17210	7500	93	109	101	213341	3500	345	407	90	213346	4100	1720	2030	112	213346	4100	1720	2030	112	
361686	3000	95	112	99	213384	7100	350	413	248	213298	4000	1750	2065	386	213298	4000	1750	2065	386	
213357	700	106	125	66	252928	11000	350	413	248	213405	>10000	1790	2112	746	213405	>10000	1790	2112	746	
213358	700	111	131	62	213349	>8400	358	422	220	213402	>10000	2140	2525	241	213402	>10000	2140	2525	241	
252931	5000	118	139	90	213409	>8400	376	444	278	213306	7000	2140	2525	241	213306	7000	2140	2525	241	
213259	6800	119	140	282	213256	6000	378	446	32	213404	>10000	2490	2938	750	213404	>10000	2490	2938	750	
361697	5800	119	140	108	213347	2800	378	446	32	213325	>10000	2560	3021	1350	213325	>10000	2560	3021	1350	
213365	1000	121	143	46	213351	1000	398	458	24	361678	8800	3610	4260	102	361678	8800	3610	4260	102	
361685	3200	123	145	146	213369	800	397	468	459											
361696	3000	123	145	107																
213384	800	127	150	92																

GEOLOGICAL LEGEND

- 7p Pegmatite
- 7w White Leucogranite
- 7c Pink Granite
- 7a Peraluminous Granite
- 6b Metasediments
- Sample Location
- Outcrop
- Steep Outcrop
- Road
- Trail
- Shallow Trench



THOR WEST

4218865

FREEWEST
FREEWEST RESOURCES CANADA INC.

FIGURE 3
Date: 20200908
Author: R. KIRBY
Title: THOR SHOWING GEOLOGY AND ROCK SAMPLES U3O8 (ppm)
Drawing:
Scale: 1:5000
Projection: UTM Zone 18 (NAD 83)

KENORA NORTH PROPERTY THOR SHOWING GEOLOGY AND ROCK SAMPLES U3O8 (ppm)

0 50 100 200 metres

Prospecting in the vicinity of the Thor Pegmatite has yielded encouraging assay results. Up to **2 km west** of the main dike, (**Thor West**) prospecting returned several samples with assays from 17 to **2938 ppm U₃O₈**. These were taken from pegmatitic rocks similar to the main dike. A sample in this area also returned anomalous REEs.

The highest grade assay from the area returned **4260 ppm U₃O₈** with 102 ppm Th. This area is about 400 m northeast of the main pegmatite occurrence. Two other samples returned 808 and 1664 ppm U₃O₈. The thickness and strike extent of this zone has yet to be determined.

9.2 Pancer Occurrence

This occurrence is located near the east end of Umfreville Lake approximately 8 km NW of the Thor Pegmatite. Access is by boat from Separation Rapids on the English River, a distance of 18 km on the water.

The property has a known occurrence and partial records of diamond drilling in two areas. Diamond drill records do not include assay results.

Several trenches were relocated and sampled. No evidence was found of the diamond drilling or a grid from the 1970s. The most significant area is a trend of **pink to reddish pegmatitic granite dikes** along a ridge west from main trenched area. Radioactive responses are strong along this ridge. Several other zones of interest were identified.

Two north-south trenches designated the “**Main**” trench and the “**8K**” trench were sampled. Potassium rich pegmatitic granite exposed in these trenches strike westerly along the ridge. Old records indicate five parallel pegmatite dikes.

West of the Main and 8K trenches, evidence of previous work is limited to several shallow dynamite “pops” from radioactive pegmatite outcrops. Rocks consisting of zones of amphibolitized inclusions, pale weathering arkosic metasediment and a gossanous graphitic metasediment are intercalated with the pegmatitic granitoids along the ridge.

Five original grab samples from the Main and 8K Trenches returned from **270 to 1451 ppm U₃O₈**. Twenty two (22) samples taken along the ridge returned from 34 to 2867 ppm U₃O₈. A mineralized corridor is on the order of 90x 200 metres was outlined by this initial prospecting, where twenty seven (**27**) **samples averaged 917 ppm U₃O₈** (Figure 4).

Detailed sampling in the Main and 8K Trenches consisted of grab samples at one (1) metre intervals. Mineralized intervals in the 8K and the Main Trench returned **504 ppm U₃O₈ over 7 metres** and **321 ppm U₃O₈ over 14 metres** respectively (Figure 4 inset).

A second area of mineralization was found about **150 metres south** of the Main Trench. This area is characterized by of palingenic-type mineralization in white



Plate 3. Palingenic-type mineralization, Pancer Occurrence

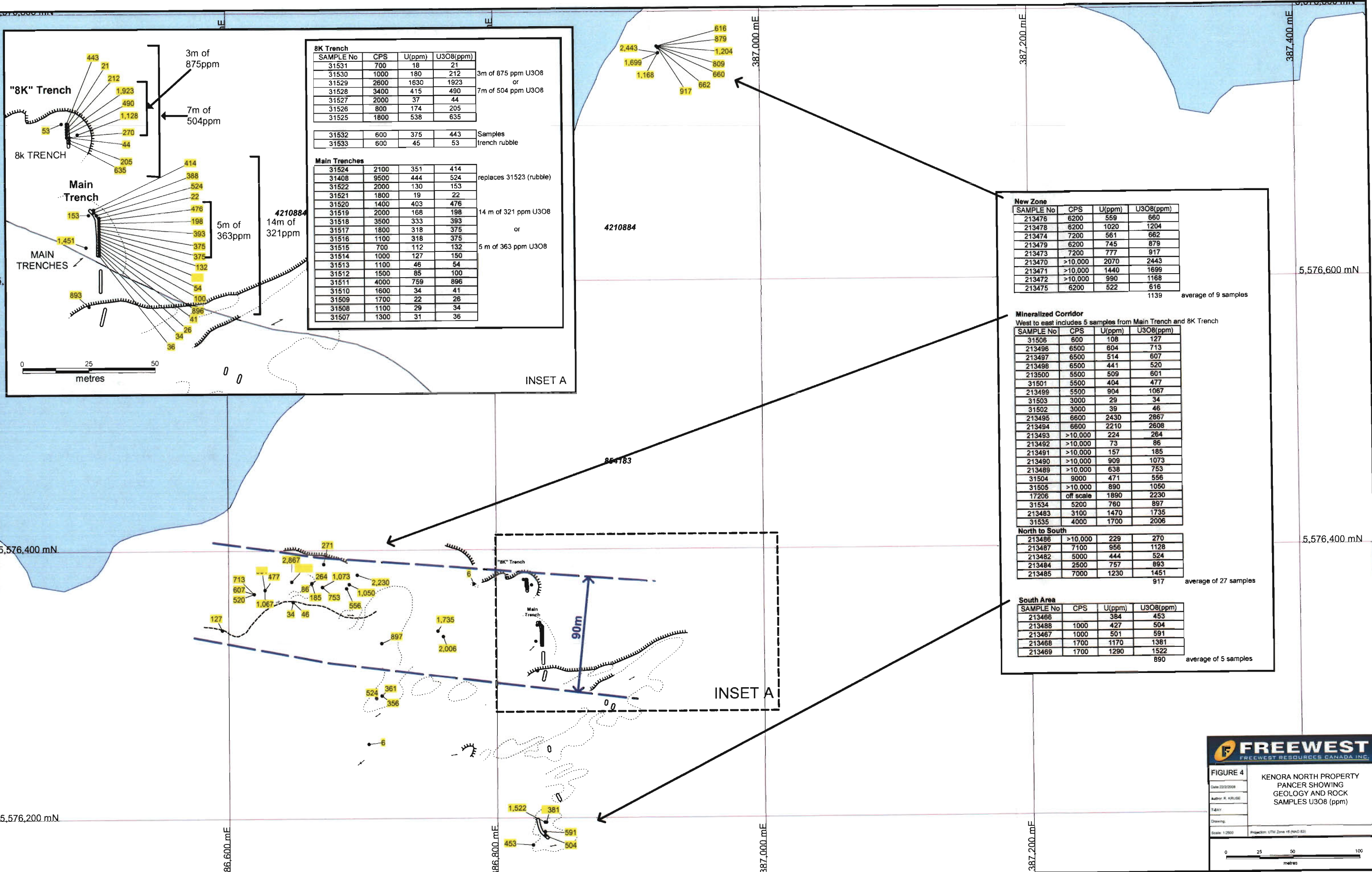
leucogranites and partially melted siliceous metasediments. Carnotite staining is widespread. A shallow trench from the 1970s was located. Five (5) grab samples from this area returned from **453 to 1522 ppm U₃O₈, averaging 890 ppm U₃O₈.**

A third occurrence in pegmatite is located about 350 metres northeast of the main trenches. Nine (9) samples returned from **616 to 2443 ppm U₃O₈ and averaged 1139 ppm U₃O₈.** This pegmatite is more typical of the Thor area and is a new occurrence (Figure 4).

9.3 CanFer Occurrence

This occurrence is located on the north shore of Umfreville Lake approximately 24 km by boat from Separation Rapids on the English River.

The occurrence is of the palingenic type, in a lit par lit banded migmatite terrain. Metamorphism is of upper amphibolite grade. A granulite isotherm and a foliated biotite trondjemite stock (possible part of the Gone Lake Stock) is interpreted to



8K Trench

SAMPLE No	CPS	U(ppm)	U3O8(ppm)
31531	700	18	21
31530	1000	180	212
31529	2600	1630	1923
31528	3400	415	490
31527	2000	37	44
31526	800	174	205
31525	1800	538	635

3m of 875 ppm U3O8
or
7m of 504 ppm U3O8

31532	600	375	443
31533	600	45	53

Samples trench rubble

Main Trenches

31524	2100	351	414
31408	9500	444	524
31522	2000	130	153
31521	1800	19	22
31520	1400	403	476
31519	2000	168	198
31518	3500	333	393
31517	1800	318	375
31516	1100	318	375
31515	700	112	132
31514	1000	127	150
31513	1100	46	54
31512	1500	85	100
31511	4000	759	896
31510	1600	34	41
31509	1700	22	26
31508	1100	29	34
31507	1300	31	36

replaces 31523 (rubble)
14 m of 321 ppm U3O8
or
5 m of 363 ppm U3O8

New Zone

SAMPLE No	CPS	U(ppm)	U3O8(ppm)
213476	6200	559	660
213478	6200	1020	1204
213474	7200	561	662
213479	6200	745	879
213473	7200	777	917
213470	>10,000	2070	2443
213471	>10,000	1440	1699
213472	>10,000	990	1168
213475	6200	522	616

1139 average of 9 samples

Mineralized Corridor
West to east includes 5 samples from Main Trench and 8K Trench

SAMPLE No	CPS	U(ppm)	U3O8(ppm)
31506	600	108	127
213496	6500	604	713
213497	6500	514	607
213498	6500	441	520
213500	5500	509	601
31501	5500	404	477
213499	5500	904	1067
31503	3000	29	34
31502	3000	39	46
213495	6600	2430	2867
213494	6600	2210	2608
213493	>10,000	224	264
213492	>10,000	73	86
213491	>10,000	157	185
213490	>10,000	909	1073
213489	>10,000	638	753
31504	9000	471	556
31505	>10,000	890	1050
17206	off scale	1890	2230
31534	5200	760	897
213483	3100	1470	1735
31535	4000	1700	2006

North to South

213486	>10,000	229	270
213487	7100	956	1128
213482	5000	444	524
213484	2500	757	893
213485	7000	1230	1451

917 average of 27 samples

South Area

SAMPLE No	CPS	U(ppm)	U3O8(ppm)
213466		384	453
213488	1000	427	504
213467	1000	501	591
213468	1700	1170	1381
213469	1700	1290	1522

890 average of 5 samples

FREWEST
FREWEST RESOURCES CANADA INC.

FIGURE 4
KENORA NORTH PROPERTY
PANCER SHOWING
GEOLOGY AND ROCK
SAMPLES U3O8 (ppm)

Date: 2/22/2008
Author: R. KRUSE
Title:
Drawing:
Scale: 1:2500
Projection: UTM Zone 18 NAD 83

occur north of the property (Breaks 1982). The granulite facies Werner Lake-Rex Lake Cu-Ni-Co trend is located several km northwest of the property.

Uranium mineralization is associated with pale white and pink leucogranites and minor quartz veins. Contacts with amphibolitized metasedimentary bands often display metamictic black quartz and high radioactivity. Thorium content is low in most samples.

Numerous areas of carnotite/uranophane staining were observed and thin grey quartz veining displays uranium oxide coatings. Green torbernite was noted on some weathered surfaces. Anomalous radioactivity with counts of 1000- 1200 cps are common throughout these rock units, particularly in the white granites. Pink and white leucogranites form irregular elongated bodies with exposed areas on the order 25 x150 m. Two main trends of white leucogranite were noted, separated by 50 m of pink leucogranite and sediment inclusions. There may be three separate granitic zones, or two folded lenses of white leucogranite with the pink leucogranite in the hinge. Ptygmatic folding is common in migmatites.

A total of nine (9) shallow trenches from previous work were located. Grab sample was taken from several trenches. Eight (8) white leucogranite samples from trenches returned from **53 to 479 ppm U₃O₈**. Ten other samples cut from areas with carnotite staining in pink leucogranites returned assays from 398 to 3623 ppm U₃O₈.

A sample taken from white leucogranite on an island west of the main showings returned **1971 ppm U₃O₈**. Carnotite staining was also observed (Figure 5).

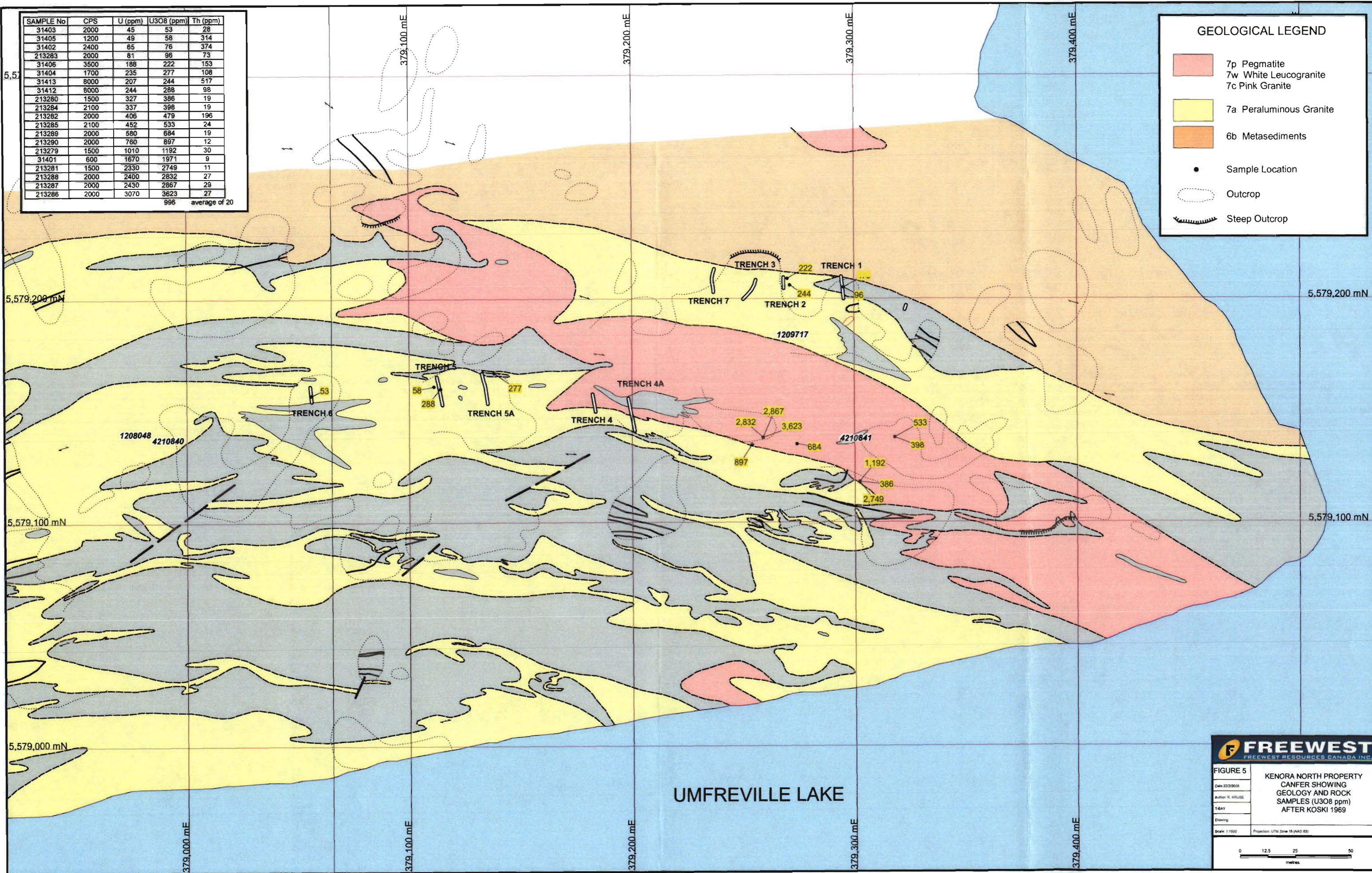


Plate 4. White leucogranite, CanFer Trench #3, note carnotite staining

SAMPLE No	CPS	U (ppm)	U308 (ppm)	Th (ppm)
31403	2000	45	53	28
31405	1200	49	58	314
31402	2400	65	76	374
213283	2000	81	96	73
31406	3500	188	222	153
31404	1700	235	277	108
31413	8000	207	244	517
31412	8000	244	288	98
213280	1500	327	386	19
213284	2100	337	398	19
213282	2000	406	479	196
213285	2100	452	533	24
213289	2000	580	684	19
213290	2000	760	897	12
213279	1500	1010	1192	30
31401	600	1670	1971	9
213281	1500	2330	2749	11
213288	2000	2400	2832	27
213287	2000	2430	2867	29
213286	2000	3070	3623	27
				996 average of 20

GEOLOGICAL LEGEND

- 7p Pegmatite
- 7w White Leucogranite
- 7c Pink Granite
- 7a Peraluminous Granite
- 6b Metasediments
- Sample Location
- Outcrop
- Steep Outcrop



FREEWEST
 FREEWEST RESOURCES CANADA INC.

FIGURE 5
 KENORA NORTH PROPERTY
 CANFER SHOWING
 GEOLOGY AND ROCK
 SAMPLES (U308 ppm)
 AFTER KOSKI 1969

Date: 2022/08/18
 Author: R. KRUSE
 T-BAY
 Drawing
 Scale: 1:5000 Projection: UTM Zone 18N (NAD 83)

0 12.5 25 50
 metres

9.4 Scotty Lake Area

This area is near the northeast end of the property and is road accessible. Prospecting along the Lennan and Scotty Road yielded several significant new zones. The discovery area is near the west end of a lobe shaped radiometric anomaly north of Scotty Lake. No record of work for uranium has been noted for this area, nor were any workings for uranium noted.

Two new uranium occurrences were located in medium grained pegmatoids. Two separate zones along Scotty Lake Road returned values of **1640 and 5192 ppm U₃O₈** (Figure 6). The easternmost zone represents the best value obtained for the entire program and is immediately adjacent to a graphitic zone in amphibolitized volcanics. Anomalous radioactivity can be traced on the ground on the scale of tens to hundreds of metres along strike with these samples.

A volcanic unit, which marks the remnant Separation Lake Greenstone Belt, is coincident with the axis of the airborne radiometric trend in this area of the Property. Several small pits and stripping were noted for sulphides in graphitic iron formations. These graphitic zones are proximal to and may be important to the controls on uranium mineralization in the area.

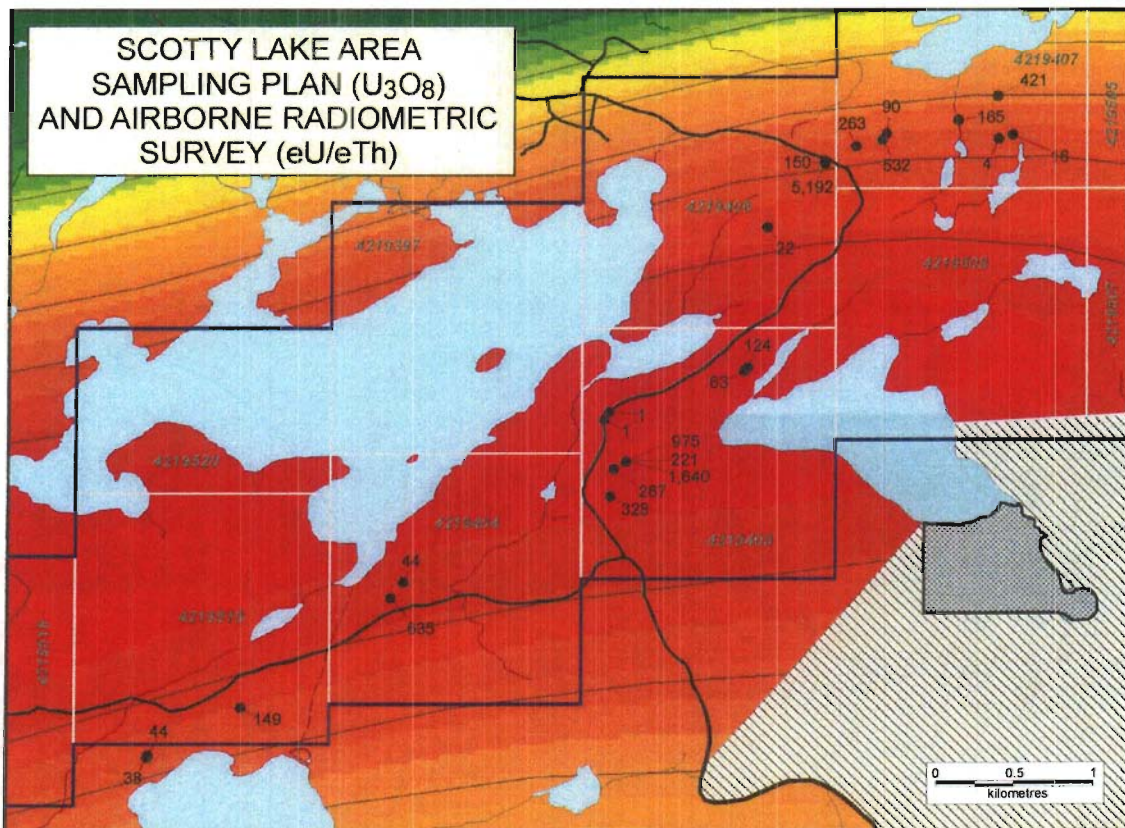


Figure 6. Sampling from the Scotty Lake Area – ppm U₃O₈.

9.5 Rare Earth Metals

A significant occurrence of Rare Earth metals was discovered on the English River during prospecting for uranium. Five grab samples were taken from a rusty-weathered pegmatite in contact with amphibolite. The potential for this zone has not been evaluated.

Rare earth oxides REEs are typically subdivided into HREE and LREE (heavy and light). There is presently market interest in several of the HREE for consumer electronics, notably Terbium and Dysprosium. Neodymium and Samarium alloys are used in high intensity magnets. Yttrium is also indicated in several samples.

Five (5) samples from moderately radioactive rocks returned slightly anomalous uranium values, the highest being **107 ppm U₃O₈**. The radioactivity appears to be caused by **thorium**, which averages **2690 ppm Th** for 5 samples. **Total REO content is over 2 percent** for the five samples. Lanthanum and Cerium in all five samples total over 1%. Neodymium and Samarium content averages 2512 and 395 ppm respectively for the five samples. Terbium is also present (30 ppm).

The metal ratios and the high content of phosphorous suggest the presence **monazite** as a source mineral, although apatite may be present.

General Location	Easting	Northing	Sample no.	cps	U3O8	Th	La	Ce	Nd	Sm	Tb	Yb	P	Y
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	(%)	ppm
Thor West	392230	5571983	213402	>10000	2490	825	735	1425	638	90	23	18	0.11	433
Thor West	392230	5571983	213404	>10000	2938	750	638	1200	525	72	20	23	0.02	718
Thor West	393375	5572002	213251	3700	227	220	223	458	98	30	4	4	0.05	48
Thor West	393306	5572063	213255	6000	1002	331	326	542	133	35	4	3	0.06	67
Thor West	393475	5572030	213296	4000	1322	458	311	608	124	26	7	11	0.09	49
Thor West	395490	5572590	31419	2400	101	497	660	1180	291	84	14	6	0.1	184
Thor West	394005	5571660	252918	7000	565	189	404	487	77	29	5	4	0.17	66
Thor West	391888	5572186	17224	3800	236	561	329	784	141	63	30	28	0.09	>1000
Pancer Ext	385817	5574258	361669	9700	280	1650	2100	4100	1600	260	23	28	0.26	434
Pancer Ext	385240	5573344	361671	1800	98	401	665	1090	338	80	12	7	0.1	128
Thor Discovery	393475	5572028	252940	6000	1912	559	465	825	332	48	12	21	0.08	153
CanFer Tr #2	379271	5579206	31413	8000	244	517	590	1020	244	41	4	tr	0.06	38
English River	387074	5578870	252933	6000	59	2200	6050	8240	2210	367	34	tr	0.74	377
English River	387074	5578870	252934	6000	47	1940	5400	7440	1970	313	26	22	0.37	338
English River	387074	5578870	252935	6000	107	3870	10000	10000	3230	519	34	2	1.25	545
English River	387074	5578870	252936	6000	51	1960	5510	7400	1980	302	29	1	0.65	322
English River	387074	5578870	252937	6000	96	3480	8610	10000	3170	475	26	2	0.96	604

Table 3. Selected REE assays

Several other samples returned anomalous REE and are included in Table 5. Further study and sampling of the zone on the English River and is required. Samples should also be tested for niobium, tantalum and zirconium, as these also occur in the REE suite.

9.5 Lithium-Tantalum (Petalite) Occurrences

The Separation Rapids area has been the focus of several advanced projects primarily for lithium. These are notably the Big Whopper (Avalon Resources) and the Big Mack (Emerald Fields). Mapping by government geologists in the early 1980s led to the discovery of these and numerous other Rare Metal pegmatite dikes.

The southern boundary of the Kenora North property, north of Separation Rapids is located near the eastern end of the subgroup which hosts the major petalite deposits west of the English River (Breaks and Tindle). The most significant of these is the Markos dyke, which has seen significant amount of work by Champion Bear Resources from 1997 to 2002. The present claim boundary includes the Markos Zone as part of the Kenora North Property. This may be a partial overstaking of the original claims from 1991.

The Markos pegmatite is exposed as two irregular boudinaged lenses intruding the volcanic country rock along an oxide and sulphide graphitic iron formation. Twenty-two (22) drill holes have been drilled from 1997 to 2002. This zoned dike(s) is very coarse grained with several 3 to 5 metre thick lenses of coarse grained petalite and associated oxide which of are Cs-Ta-Rb rich. The western strike extension of this deposit is covered by the Kenora North Property.

Several other smaller dikes identified by previous work are on the Kenora North Property. The "James Dike" was located and sampled. Results (Table 5) show enrichment in rubidium, cesium and tantalum similar to other Petalite occurrences

Occurrences known as Number 9 Dike and the Draven's dike are on the property. The No 9 dike is reported to be Rb rich. Draven's Dyke is a narrow petalite dike. The potential of these zones is undetermined.

Kenora North Property

General Location	Easting	Northing	Sample no.	cps	U3O8 ppm	Th ppm	Be ppm	Cs ppm	Rb ppm	Sb ppm	W ppm	Ta ppm	P (%)
West of Dravens	392450	5573100	31414	<100	4	13	11	77	660	3	10	27	0.03
James Dyke	394011	5570558	31415	<100	5	4	155	74	6100	4	4	80	0.11
James Dyke	393991	5570550	31416	<100	3	2	714	376	4760	7	21	211	0.13
James Dyke	393990	5570552	31417	<100	10	10	170	166	3520	11	31	202	1.4
English River Rd	393780	5569500	31418	<100	9	8	6	17	762	12	<0.1	15	0.01

Table 4 Fractionated dyke samples

Table 5. Exploration Priorities, Kenora North Project 2007

EXPLORATION PRIORITIES				
KENORA NORTH PROPERTY				
Priority	Project Designation	Location	Project Details	Proposed Work
1	Regional Follow up	Property wide	Airborne survey will identify new targets with good resolution	-Locate specific ground targets and evaluate potential.
2	Thor Pegmatite	North of Separation Rapids	Extensive corridor of significant mineralization, zone of enrichment near major lithologic contacts	-establish grid, radiometric, magnetometer, mapping surveys -detailed sampling and channel cutting
3	Pancer Occurrence	English River Umfreville Lake	Zone with multiple granitic pegmatites with excellent grade and potential width	-establish grid, magnetometer, radiometric, mapping surveys. -detailed prospecting with some stripping and channel cutting
4	CanFer	Umpfreville Lake	Zone with leucogranite affinity, potential for 10x200m zone	-establish grid, radiometric, magnetometer, mapping surveys -detailed sampling with some stripping
5	Scotty Lake	East end of property, Helder, Scotty Lake area	Pegmatite zones near mafic volcanic and sediment contacts, high grade potential	-establish grid -detailed radiometric, magnetometer, mapping surveys
6	Rare Earth Elements	English River Area, Thor	Thorium rich REE anomalous samples, new area, unknown potential or affinities	-detailed prospecting and mapping to evaluate REE potential for area
7	Petalite Lithium	Lennan Lake Road Area	Known Petalite occurrences are hosted in volcanic unit. Research, locate and sample known occurrence	-prospecting magnetic lows, recognition of this type of pegmatite while prospecting.
8	Helder Lake Gold	Helder Lake Area	A gold - base metal target is known from assessment files	-locate and evaluate the occurrence

A proposed budget for Phase II exploration program in 2008 is outlined in Table 6.

Table 6. Proposed Phase II Exploration Expenditures

**Kenora North Project
2007**

Airborne Survey	avg linelength	lines	price per km	line km tot	
	5 km	250	\$150	1250	\$187,500

Regional Prospecting	30 day	\$750 per day			\$22,500
assays	200 sam	\$45 per sam			\$9,000
support/equipment/accomod.	1 mon	\$8,000 per mon			\$8,000

Local Projects

Thor	Linecutting	28 km	\$550 per km	\$15,400	
	Geophysics	25 km	\$250 per km	\$6,250	
	detailed sampling	10 day	\$750 per day	\$7,500	
	Geology	10 day	\$600 per day	\$6,000	subtotal
					\$35,150

Pancer	Linecutting	18 km	\$550 per km	\$9,900	
	Geophysics	15 km	\$250 per km	\$3,750	
	detailed sampling	8 day	\$750 per day	\$6,000	
	Geology	8 day	\$600 per day	\$4,800	subtotal
					\$24,450

CanFer	Linecutting	10 km	\$550 per km	\$5,500	
	Geophysics	8 km	\$250 per km	\$2,000	
	detailed sampling	5 day	\$750 per day	\$3,750	
	Geology	5 day	\$600 per day	\$3,000	subtotal
					\$14,250

Scotty Lake	Linecutting	12 km	\$550 per km	\$6,600	
	Geophysics	10 km	\$250 per km	\$2,500	
	detailed sampling	5 day	\$750 per day	\$3,750	
	Geology	5 day	\$600 per day	\$3,000	subtotal
					\$15,850

Diamond drilling	holes	avg length m	price/m	total metres	drilling total
-------------------------	-------	--------------	---------	--------------	-----------------------

	10	100	\$200	1000	\$200,000
helicopter time	days	hours/days	cost/hr	cost/day	total helicopter
	25	0	\$2,000	\$0	\$0

support/equipment/accomod.	3	mon	\$8,000	per mon	total support
		n			\$24,000

Assaying Costs		no. samples	cost per assay	
assays		800	\$45	\$36,000
Shipping		shipments	cost per shipment	
		12	\$200	\$2,400
Extras	radiation safety practices			\$5,000

Technical		mandays	mandayrate	
		20	\$500	\$10,000

2008	
Phase II Total	\$594,100

The Phase II Budget will vary based on the amount of drilling required where helicopter support may be required.

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Appendix 1

Sample Methodology and Analysis

Sampling Rationale

The process of prospecting using a scintillometer was used to identify anomalous radioactivity. Grab samples were obtained with a hammer/chisel or from saw cut channeled zones. Saw cut channeling was done to obtain fresh material in sufficient volume for assaying from flat outcrop locations where there was good access. No attempt was made to channel cut for widths over 30 cm and saw cut samples represent grabs.

Sample locations were logged in sample books and locations were noted using hand held GPS units. Locations were flagged and labeled with marker on flagging tape.

Approximately 1 to 2 kg of fresh rock was taken from each sample site. Samples were placed in heavy polyethylene bags and sealed with plastic labels by electrical tape. Daily samples were stored in poly-fibre bags and placed in a secure area. Samples were securely maintained until shipment in poly-fibre bags by courier or bus from Thunder Bay to Activation Laboratories Ltd, in Ancaster Ontario.

Sample Preparation

As a routine practice with rock samples, the entire sample is crushed to a nominal minus 10 mesh (1.7 mm) using a mild steel mill. Each crushed sample is mechanically split (riffle) to obtain a representative sample and then pulverized to at least 85% minus 200 mesh (75 microns).

To eliminate contamination, a routine practice of passing cleaner sand through the crusher and pulverizer is used between each sample. Samples aliquots are then taken for the analysis.

Samples were analysed for uranium using a Delayed Neutron Count method. This allowed for a rapid turnaround for the initial prospecting phase. The samples were subsequently analyzed for 49 elements using INAA and ICP.

Analytical Laboratory Protocols

Delayed Neutron Counting (DNC)

DNC is a rapid form of neutron activation analysis which is used for measuring fissile elements such as U^{235} . Approximately 1 gram aliquots of each sample is placed in a neutron flux in a nuclear reactor. The U^{235} within the sample absorbs neutrons which breaks down some of the U^{235} fission products producing neutrons. After rapid removal from the reactor, the neutrons are thermalized and measured by an array of BF3 neutron detectors. This technique is ideal for measuring uranium from sub-ppm to percentage levels.

Hoffman, E.L. 1992. Instrumental Neutron Activation in Geoanalysis. *Journal of Geochemical Exploration*, volume 44, pp 297-319

Instrumental Neutron Activation Analysis (INAA)

INAA is a non-destructive trace element technique, capable of measuring up to 35 elements at the ppb to percent level in most materials. INAA is dependent on measuring primary gamma radiation which is emitted by the radioactive isotopes produced by irradiating samples in a nuclear reactor. Each element which is activated will emit a characteristic gamma radiation signature which can be measured and quantified.

INAA is one of the lowest cost multi-element techniques. As it requires no chemistry, there is little worry of contamination or whether the elements in question are in solution. The additional worry of where there are abnormal amounts of a particular element which will cause chemical or instrumental interferences is also generally avoided with INAA.

INAA is exceptionally sensitive to a number of trace elements like gold, arsenic, antimony, tantalum, uranium, thorium, etc. Many of these elements are very difficult and expensive to determine by conventional chemical procedures. In addition, trace elements in organic material such as humus or vegetation are easily determined directly with exceptionally low detection limits. The INAA technique does not require the expensive and slow ashing procedure of the other chemical methods. This lack of ashing prevents potential loss of certain elements and improves the reliability of data due to lesser sample handling and potential human error.

Hoffman, E.L. 1992. Instrumental Neutron Activation in Reanalysis. *Journal of Geochemical Exploration*, volume 44, pp 297-319

INAA Portion

An approximately 30 gram aliquot is encapsulated and weighed in a polyethylene vial and irradiated with NiCr flux wires and an internal standard (1 for 11 samples) at thermal neutron flux of $7 \times 10^{12} \text{ cm}^{-2} \text{ s}^{-1}$. After a seven day decay to allow Na^{24} to decay, the samples are counted on a high purity Ge detector with a resolution of better than 1.67 KeV for the 1332 KeV Co-60

photopeak. The detector is linked to a Canberra Series 95 Multi-channel analyzer under computer control.

Using the flux wires, the decay corrected activities are compared to a calibration developed from multiple certified international reference materials. The standard present is only a check on accuracy of the analysis and is not used for calibration purposes. From 10-30% of samples are rechecked by remeasurement.

Hoffman, E.L. 1992. Instrumental Neutron Activation in Geoanalysis. Journal of Geochemical Exploration, volume 44, pp 297-319

ICP Portion.

A 0.25 g sample is digested at 260°C with four acids beginning with hydrofluoric, followed by a mixture of nitric and perchloric acids, heated using précis programmer controlled heating in several ramping and holding cycles which takes the samples to dryness. After complete drying, the samples are redissolved in aqua regia. This leach is partial for magnetite, chromite, spinels, zircon and massive sulphides. The solutions re analyzed using either Varian VISTA PRO , Varian 735-ES or Perkin Elmer OPTIMA 3000 Radial ICP.

Appendix 2

Kenora North Database

KENORA NORTH ROCK SAMPLES						DNC			INAA		calculations				
SAMPLE NUMBER	UTM Na 83 EASTING	UTM Na 83 NORTHING	SAMPLE TAK	DATE	GRID BLOCK	ROCK DESCRIPTION	SAMPLE TYPE	GPS U	ppm U308	ppm MASS	g	ppm Th	ppm U	RATIO Th/U	RATIO DNC/INAA
17202	384786	5574091	WS	Oct 12,07	Pancer EXT - SW	gossan zone near W boundary, po, py aspy	o/c		15	17	1.07	10	16	0.7	92.7%
17203	385701	5574208	WS	Oct 13,07	Pancer EXT - SW	peg, 1m wide, 450cps in bag, carnotite, biotite	o/c	2600	124	146	1.06	76	128	0.6	97.1%
17204	385736	5574507	WS	Oct 13,07	Pancer EXT - SW	peg, 2.5 m across strike	o/c	3800	85	100	1.08	96	87	1.1	97.1%
17205	385793	5574329	WS	Oct 13,07	Pancer EXT - SW	granite, layered biotite	o/c	2000	73	87	1.04	113	77	1.5	95.1%
17206	386696	5576382	WS	Oct 14,07	Pancer EXT - SW	2m, wide zone, black, biotite rich	o/c	off scale	1890	2230	1.03	195	1740	0.1	108.6%
17207	384962	5573664	WS	Oct 15,07	Pancer EXT - SW	peg, dark green staining	o/c	1500	40	47	1.04	65	43	1.6	92.6%
17208	384813	5573717	WS	Oct 15,07	Pancer EXT - SW	alt granite, hematite staining, biotite	o/c	1500	26	31	1.07	74	27	2.8	95.0%
17209	392781	5572040	WS	Oct 16,07	SW THOR	granite, glassy black quartz, carnotite, biotite	o/c	3800	168	198	1.06	347	152	2.1	110.8%
17210	392978	5571936	WS	Oct 16,07	SW THOR	granite, black quartz	o/c	7500	93	109	1.08	101	95	1.1	97.1%
17211	392680	5571373	WS	Oct 16,07	Umfreville Rd at ER	granite host, gossan zone, po-py	o/c	450	6	7	1.06	13	7	2.2	84.1%
17213	396103	5571211	WS	Oct 16,07	ENGLISH RIVER R	gossan zone, po-py	o/c		7	8	1.07	11	7	1.5	94.9%
17215	393588	5571570	WS	Oct 22,07	S of THOR	peg, localized 1x3m, carnotite, biotite	o/c	1850	33	39	1.01	80	33	2.4	98.7%
17216	393528	5571534	WS	Oct 22,07	S of THOR	peg, 1 m wide, 2m along strike, biotite	o/c	3700	35	42	1.08	58	38	1.6	92.2%
17217	393418	5571434	WS	Oct 22,07	S of THOR	peg, 30-40 cm along strike, carnotite, biotite	o/c	3000	1050	1239	1.04	63	1040	0.1	100.9%
17218	393358	5571714	WS	Oct 22,07	S of THOR	peg, hematite staining, biotite rich	o/c	6000	71	84	1.05	72	67	1.0	105.1%
17219	394547	5571834	WS	Oct 23,07	SE of THOR	granite, sheared, biotite	o/c	2700	35	41	1.06	60	35	1.7	98.7%
17220	394065	5571712	WS	Oct 24,07	SE of THOR	peg, biotite	o/c	5600	20	23	1.08	44	23	2.2	87.6%
17221	394105	5571958	WS	Oct 24,07	SE of THOR	peg, biotite	o/c	5100	58	68	1.06	143	55	2.5	103.7%
17222	391778	5571986	WS	Oct 24,07	THOR WEST	peg, biotite rich, carnotite	o/c	6500	479	565	1.05	395	423	0.8	113.2%
17223	391911	5572046	WS	Oct 24,07	THOR WEST	granite, dark green staining	o/c	2700	85	100	1.06	7	89	0.1	95.9%
17224	391888	5572186	WS	Oct 24,07	THOR WEST	granite, 3 m wide, carnotite, biotite	o/c	3800	200	236	1.02	561	184	2.8	108.8%
17225	390798	5571948	WS	Oct 25,07	THOR WEST	pink granite, dk green staining	o/c	2100	27	32	1.04	141	29	5.3	91.5%
17226	416923	5577809	WS	OCT25,07	SCOTTY LAKE	granite Au, gossan, py-mag	o/c		1	1	1.07	1	2	1.1	46.3%
17227	416953	5577859	WS	OCT25,07	SCOTTY LAKE	mafic, Au, fuchsite, py-mag	o/c	1200	0	1	1.03	1	2	2.5	16.8%
17228	416775	5578350	WS	OCT25,07	SCOTTY LAKE	mafic, Au, gossan, py-mag	o/c		0	1	1.06	1	3	11.0	3.1%
17229	418515	5579551	WS	Oct 26,07	SCOTTY LAKE	pink granite, carnotite, biotite	o/c	6000	223	263	1.02	36	221	0.2	100.7%
17230	418679	5579592	WS	Oct 26,07	SCOTTY LAKE	granite, carnotite, biotite	o/c	7000	451	532	1.02	31	451	0.1	99.9%
17231	418706	5579630	WS	Oct 26,07	SCOTTY LAKE	granite, carnotite, biotite	o/c	3000	76	90	1.08	31	82	0.4	93.3%
17232	416988	5577490	WS	Oct 27,07	SCOTTY LAKE	pink granite, carnotite, biotite	o/c	2200	226	267	1.03	12	227	0.1	99.6%
17233	419418	5579598	WS	Oct 27,07	SCOTTY LAKE	Au, sericite schist, gossan, py	o/c		4	4	1.04	7	6	2.0	57.9%
17234	419507	5579622	WS	Oct 27,07	SCOTTY LAKE	pink granite, Au, gossan, py	o/c		14	16	1.05	25	16	1.8	86.3%
17235	419412	5579871	WS	Oct 27,07	SCOTTY LAKE	pink granite, carnotite, biotite	o/c	9500	357	421	1.04	13	360	0.0	99.3%
17236	417062	5577643	WS	Oct 27,07	SCOTTY LAKE	pink granite, carnotite, biotite	o/c	4000	187	221	1.07	9	189	0.0	98.9%
17237	417062	5577543	WS	Oct 28,07	HELDER LAKE	pink granite, carnotite, biotite	o/c	2700	1390	1640	1.05	63	1410	0.0	99%
17238	417062	5577543	WS	Oct 28,07	HELDER LAKE	granite, carnotite, biotite	o/c	1800	826	975	1.05	41	799	0.1	103%
17239	417828	5578144	WS	Oct 29,07	LENNAN, HELDER	granite, biotite rich	o/c	3000	105	124	1.07	349	99	3.3	106%
17240	417807	5578123	WS	Oct 29,07	LENNAN, HELDER	granite, biotite rich	o/c	3000	53	63	1.03	126	46	2.4	115%
17241	415650	5576776	WS	Oct 29,07	LENNAN, HELDER	ping peg granite dk green staining	o/c	2000	37	44	1.06	107	37	2.9	100%
17242	414631	5575969	WS	Oct 29,07	LENNAN, HELDER	pink granite, carnotite, biotite	o/c	5500	126	149	1.08	202	121	1.6	104%
17243	412215	5574880	WS	Oct 30,07	LENNAN ROAD	pink granite, dk green staining	o/c	2000	83	98	1.06	36	81	0.4	102%
17244	412432	5575532	WS	Oct 30,07	LENNAN ROAD	pin peg granite, dk green staining	o/c	700	24	28	1.03	53	25	2.2	95%
17245	412413	5576013	WS	Oct 30,07	LENNAN ROAD	pink granite, dk green staining	o/c	4400	26	30	1.08	22	28	0.9	91%
17246	409265	5577098	WS	Oct 30,07	LENNAN ROAD	granite, sheared	o/c	4000	44	52	1.06	16	47	0.4	94%
17247	409188	5577077	WS	Oct 30,07	LENNAN ROAD	granite, biotite rich	o/c	8000	84	100	1.06	33	84	0.4	100%
17248	409160	5577020	WS	Oct 30,07	LENNAN ROAD	pink granite, carnotite, biotite	o/c	3600	30	35	1.04	297	35	9.9	86%
213251	393375	5572002	KL	20070801	THOR	Fine grain biotite, grayish granite	o/c	3700	192	227	1.07	220	197	1.1	98%
213252	393380	5572002	KL	20070801	THOR	Quartz crystalline, pink granite, fine grain biotite	o/c	5400	467	551	1.05	205	455	0.4	103%
213253	393304	5572058	KL	20070801	THOR	Biotite crystals, yellow cake, white granite	o/c	6300	490	578	1.03	315	494	0.6	99%
213254	393304	5572058	KL	20070801	THOR	Biotite crystals, yellow cake, white granite	o/c	6300	723	853	1.04	312	679	0.4	106%
213255	393306	5572063	KL	20070801	THOR	Biotite crystals, coarse grain granite (reddish) ling	o/c	8000	849	1002	1.06	331	890	0.4	95%
213256	393306	5572063	KL	20070801	THOR	Biotite crystals, coarse grain granite (reddish) ling	o/c	6000	376	444	1.05	278	376	0.7	100%
213257	392282	5572059	KL	20070801	THOR	Biotite crystals, white & reddish granite, fine-med	o/c	4500	45	53	1.04	277	41	6.2	109%
213258	392282	5572059	KL	20070801	THOR	Biotite crystals, white & reddish granite, fine-med	o/c	4500	47	55	1.02	132	47	2.8	100%
213259	393432	5572103	KL	20070801	THOR	Yellow staining, reddish granite, biotite clusters,	o/c	6800	119	140	1.07	282	118	2.4	101%
213260	393432	5572103	KL	20070801	THOR	Yellow staining, reddish granite, biotite clusters,	o/c	6800	210	248	1.05	515	217	2.5	97%
213261	393472	5572112	KL	20070801	THOR	Small pegmatite, med grain granite, biotite crysta	o/c	9100	593	700	1.04	143	590	0.2	100%
213262	393472	5572112	KL	20070801	THOR	Small pegmatite, med grain granite, biotite crysta	o/c	9100	878	1036	1.05	323	871	0.4	101%
213263	393469	5572239	KL	20070801	THOR	Yellow staining, white granite, med pegmatite	o/c	7100	1230	1451	1.03	450	1250	0.4	98%
213265	393470	5572235	KL	20070801	THOR	Yellow staining, fine grain biotite, small pegmatite	o/c	7400	400	472	1.03	279	402	0.7	100%
213266	393470	5572235	KL	20070801	THOR	Yellow staining, fine grain biotite, small pegmatite	o/c	7400	548	647	1.06	348	542	0.6	101%
213267	393484	5572233	KL	20070801	THOR	Yellow staining, white granite, biotite crystals	o/c	12000	1320	1558	1.06	486	1370	0.4	96%
213268	393484	5572233	KL	20070801	THOR	Yellow staining, white granite, biotite crystals	o/c	12000	1190	1404	1.05	448	1220	0.4	98%
213269	393485	5572260	KL	20070801	THOR OLD PIT	Fine grain biotite, med pegmatite	o/c	1000	17	20	1.03	18	22	1.1	76%
213270	393485	5572260	KL	20070801	THOR OLD PIT	Fine grain biotite, med pegmatite	o/c	1000	14	16	1.05	17	17	1.3	83%
213271	393480	5572272	KL	20070801	THOR OLD PIT	Fine grain biotite, red granite	o/c	1000	15	18	1.01	30	19	2.0	80%
213272	393483	5572267	KL	20070801	THOR OLD PIT	White granite, biotite crystals	o/c	1000	16	18	1.05	35	18	2.3	85%
213273	393493	5572265	KL	20070801	THOR OLD PIT	Coarse grain granite, biotite crystals	o/c	1000	28	33	1.01	29	28	1.1	108%
213274	393493	5572265	KL	20070801	THOR OLD PIT	Fine grain sandstone, rusty spots	o/c	1000	15	28	1.05	16	15	1.0	102%
213275	393493	5572265	KL	20070801	THOR OLD PIT	Rusty rock, fine grain biotite, biotite schist	o/c	1000	23	10	1.04	65	23	2.8	102%
213276	393493	5572264	KL	20070801	THOR OLD PIT	Fine grain biotite, sandstone, rusty spots	o/c	1000	9	18	1.04	18	10	2.1	88%
213277	393490	5572264	KL	20070801	THOR OLD PIT	Fine grain biotite, sulphur, rusty spots	o/c	1000	8	10	1.06	34	7	4.2	122%
213278	393489	5572264	KL	20070801	THOR OLD PIT	Biotite schist, sandstone	o/c	1000	10	12	1.04	26	11	2.6	90%
213279	379302	5579118	KL	20070801	CAN-FER	Biotite crystals, med-pegmatite, yellow cake & st	o/c	1500	1010	1192	1.06	30	999	0.0	101%
213280	379302	5579118	KL	20070801	CAN-FER	Biotite crystals, med-pegmatite, yellow cake & st	o/c	1500	327	386	1.06	19	341	0.1	96%
213281	379302	5579118	KL	20070801	CAN-FER	Biotite crystals, med-pegmatite, yellow cake & st	o/c	1500	2330	2749	1.04	11	2290	0.0	102%
213282	379295	5579205	KL	20070801	CAN-FER(PIT)	Quartz crystals, fine grain biotite, med pegmatite	o/c	2000	406	479	1.07	198	407	0.5	100%
213283	379295	5579205	KL	20070801	CAN-FER(PIT)	Quartz crystals, fine grain biotite, med pegmatite	o/c	2000	81	96	1.05	73	92	0.9	88%
213284	379318	5579138	KL	20070801	CAN-FER	Biotite crystals, pink granite, yellow staining	o/c	2100	337	398	1.10	19	353	0.1	95%
213285	379318	5579138	KL	20070801	CAN-FER	Biotite crystals, pink granite, yellow staining	o/c	2100	452	533	1.02	24	444	0.1	102%
213286	379259	5579138	KL	20070801	CAN-FER	Biotite crystals, yellow cake & staining									

KENORA NORTH ROCK SAMPLES						DNC			INAA		calculations				
SAMPLE NUMBER	UTM Na 83 EASTING	UTM Na 83 NORTHING	SAMPLE TAK	DATE	GRID BLOCK	SAMPLE TYPE	ppm CPS	ppm U	ppm U308	ppm MASS	ppm Th	ppm U	RATIO Th/U	RATIO DNC/INAA	
213290	379254	5579135	KL	20070801	CAN-FER	Biotite crystals, yellow staining	o/c	2000	760	897	1.03	12	813	0.0	93%
213291	393756	5569893	KL	20070801	ENGLISH RIVER	Pyrite, pyrrhotite, chalcopyrite?	o/c	N/A	6	7	1.10	0	7	0.0	90%
213292	393756	5569893	KL	20070801	ENGLISH RIVER	Pyrite, pyrrhotite, chalcopyrite?	o/c	N/A	2	2	1.09	1	2	0.4	79%
213293	392911	5570391	KL	20070801	ENGLISH RIVER	Pyrite, pyrrhotite, chalcopyrite?	o/c	N/A	5	6	1.06	6	7	1.2	75%
213294	392911	5570391	KL	20070801	ENGLISH RIVER	Pyrite, pyrrhotite, chalcopyrite?	o/c	N/A	2	2	1.08	3	3	1.7	65%
213295	393475	5572030	KL	20070907	THOR	Carnotite, biotite crystals, pink granite, reddish t	o/c	4000	1040	1227	1.06	421	1250	0.4	83%
213296	393475	5572030	KL	20070907	THOR	Carnotite, biotite crystals, pink granite, reddish t	o/c	4000	1120	1322	1.00	458	1360	0.4	82%
213297	393475	5572030	KL	20070907	THOR	Carnotite, biotite crystals, pink granite, reddish t	o/c	4000	1100	1298	1.02	518	1380	0.5	80%
213298	393475	5572030	KL	20070907	THOR	Carnotite, biotite crystals, pink granite, reddish t	o/c	4000	1750	2065	1.03	386	1940	0.2	90%
213299	393475	5572030	KL	20070907	THOR	Carnotite, biotite crystals, pink granite, reddish t	o/c	4000	1710	2018	1.03	381	1880	0.2	91%
213300	393464	5572030	KL	20070907	THOR	Carnotite, biotite crystals, pink granite, reddish t	o/c	4000	863	1018	1.03	312	1110	0.4	78%
213301	393464	5572200	KL	20070907	THOR	Yellow cake(carnotite) white-pink granite, biotite c	o/c	5000	272	321	1.01	105	314	0.4	87%
213302	393464	5572200	KL	20070907	THOR	Yellow cake(carnotite) white-pink granite, biotite c	o/c	6000	756	892	1.00	104	825	0.1	92%
213303	393464	5572200	KL	20070907	THOR	Yellow cake(carnotite) white-pink granite, biotite c	o/c	7000	535	631	1.02	180	624	0.3	86%
213304	393464	5572200	KL	20070907	THOR	Yellow cake(carnotite) white-pink granite, biotite c	o/c	7000	450	531	1.02	118	550	0.3	82%
213305	393464	5572200	KL	20070907	THOR	Yellow cake(carnotite) white-pink granite, biotite c	o/c	7000	1090	1286	1.08	123	1230	0.1	89%
213306	393464	5572200	KL	20070907	THOR	Yellow cake(carnotite) white-pink granite, biotite c	o/c	7000	2140	2525	1.00	241	2300	0.1	93%
213307	393476	5572213	KL	20070907	THOR	(carnotite) white-pink granite, biotite crystals	o/c	3000	559	660	1.01	84	658	0.1	85%
213308	393476	5572213	KL	20070907	THOR	(carnotite) white-pink granite, biotite crystals	o/c	4000	842	994	1.03	62	966	0.1	87%
213309	393476	5572213	KL	20070907	THOR	(carnotite) white-pink granite, biotite crystals	o/c	5000	1050	1239	1.02	74	1150	0.1	91%
213310	393476	5572213	KL	20070907	THOR	(carnotite) white-pink granite, biotite crystals	o/c	5000	942	1112	1.04	79	1040	0.1	91%
213311	393476	5572213	KL	20070907	THOR	(carnotite) white-pink granite, biotite crystals	o/c	5000	740	873	1.02	76	874	0.1	85%
213312	393476	5572213	KL	20070907	THOR	(carnotite) white-pink granite, biotite crystals	o/c	5000	767	905	1.02	85	879	0.1	87%
213313	393478	5572208	KL	20070907	THOR	(carnotite) white granite	o/c	5000	731	863	1.00	254	804	0.3	91%
213314	393478	5572208	KL	20070907	THOR	(carnotite) white granite	o/c	7000	591	697	1.01	234	725	0.4	82%
213315	393478	5572208	KL	20070907	THOR	(carnotite) white granite	o/c	7000	409	483	1.03	172	466	0.4	88%
213316	393478	5572208	KL	20070907	THOR	(carnotite) white granite	o/c	7000	267	315	1.00	158	295	0.6	91%
213317	393478	5572208	KL	20070907	THOR	(carnotite) white granite	o/c	7000	537	634	1.00	217	620	0.4	87%
213318	393478	5572208	KL	20070907	THOR	(carnotite) white granite	o/c	7000	463	546	1.00	209	551	0.5	84%
213319	393467	5572230	KL	20070907	THOR	(carnotite) white-pink granite	o/c	5000	338	399	1.01	160	388	0.5	87%
213320	393467	5572230	KL	20070907	THOR	(carnotite) white-pink granite	o/c	5000	692	817	1.05	337	786	0.5	88%
213321	393467	5572230	KL	20070907	THOR	(carnotite) white-pink granite	o/c	6000	500	590	1.00	268	584	0.5	86%
213322	393467	5572230	KL	20070907	THOR	(carnotite) white-pink granite	o/c	7000	316	373	1.00	241	368	0.8	86%
213323	393467	5572230	KL	20070907	THOR	(carnotite) white-pink granite	o/c	7000	470	555	1.01	249	546	0.5	86%
213324	393467	5572230	KL	20070907	THOR	(carnotite) white-pink granite	o/c	7000	489	577	1.01	230	535	0.5	91%
213325	393467	5572224	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	>10,000	2560	3021	1.00	1350	4010	0.5	64%
213326	393457	5572224	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	>10,000	625	738	1.00	260	678	0.4	92%
213327	393457	5572224	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	>10,000	732	864	1.05	490	868	0.7	84%
213328	393457	5572224	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	>10,000	1000	1180	1.03	381	1120	0.4	89%
213329	393457	5572224	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	>10,000	485	572	1.05	315	535	0.6	91%
213330	393457	5572224	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	>10,000	524	618	1.08	238	634	0.5	83%
213331	393463	5572022	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	2800	1280	1510	1.00	45	1450	0.0	88%
213332	393463	5572022	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	2800	737	870	1.01	26	855	0.0	86%
213333	393463	5572022	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	2800	344	406	1.02	125	409	0.4	84%
213334	393463	5572022	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	2800	794	937	1.03	30	876	0.0	91%
213335	393463	5572022	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	2800	299	353	1.01	50	346	0.2	86%
213336	393463	5572022	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	2800	710	838	1.06	61	820	0.1	87%
213337	393475	5572013	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	4000	333	393	1.06	81	393	0.2	85%
213338	393475	5572013	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	4000	336	396	1.01	82	394	0.2	85%
213339	393475	5572013	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	4000	291	343	1.03	79	324	0.3	90%
213340	393475	5572013	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	4000	323	381	1.04	97	371	0.3	87%
213341	393480	5572010	KL	20070907	THOR	(carnotite) white granite, reddish spots	o/c	3500	345	407	1.03	90	410	0.3	84%
213342	393480	5572010	KL	20070907	THOR	(carnotite) white granite, reddish spots	o/c	3500	286	337	1.06	83	313	0.3	91%
213343	393492	5572007	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	4100	1080	1274	1.04	182	1230	0.2	88%
213344	393492	5572007	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	4100	732	864	1.08	144	846	0.2	87%
213345	393492	5572007	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	4100	641	756	1.04	116	698	0.2	92%
213346	393492	5572007	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	4100	1720	2030	1.01	112	1750	0.1	98%
213347	393479	5572010	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	2800	378	446	1.03	32	455	0.1	83%
213348	393479	5572010	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	2800	514	607	1.04	25	616	0.0	83%
213349	393497	5572007	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	1000	841	992	1.03	23	964	0.0	87%
213350	393497	5572010	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	1000	554	654	1.04	36	709	0.1	78%
213351	393497	5572010	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	1000	388	458	1.01	24	463	0.1	84%
213352	393497	5572010	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	1000	448	529	1.00	24	535	0.1	84%
213353	393497	5572010	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	1000	926	1093	1.00	24	1010	0.0	92%
213354	393497	5572009	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	1000	761	898	1.04	29	979	0.0	78%
213355	393428	5572351	KL	20070907	THOR	(carnotite) blasted area, biotite book, biotite cryst	o/c	700	260	307	1.05	54	266	0.2	98%
213356	393428	5572351	KL	20070907	THOR	(carnotite) blasted area, biotite book, biotite cryst	o/c	700	220	260	1.06	23	232	0.1	95%
213357	393428	5572351	KL	20070907	THOR	(carnotite) blasted area, biotite book, biotite cryst	o/c	700	106	125	1.07	66	118	0.6	90%
213358	393428	5572351	KL	20070907	THOR	(carnotite) blasted area, biotite book, biotite cryst	o/c	700	111	131	1.05	62	109	0.6	102%
213359	393430	5572354	KL	20070907	THOR	(carnotite) blasted area, biotite crystals, white gre	o/c	800	204	241	1.08	103	216	0.5	94%
213360	393430	5572354	KL	20070907	THOR	(carnotite) blasted area, biotite crystals, white gre	o/c	800	159	188	1.01	61	173	0.4	92%
213361	393427	5572368	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	800	76	90	1.00	64	80	0.8	96%
213362	393427	5572368	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	800	92	108	1.08	98	94	1.1	98%
213363	393427	5572368	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	800	32	38	1.02	49	35	1.5	91%
213364	393427	5572368	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	800	127	150	1.03	92	133	0.7	95%
213365	393426	5572355	KL	20070907	THOR	White granite, biotite crystals, quartz	o/c	1000	121	143	1.06	46	130	0.4	93%
213366	393426	5572355	KL	20070907	THOR	White granite, biotite crystals, quartz	o/c	1000	136	160	1.04	54	149	0.4	91%
213367	393431	5572364	KL	20070907	THOR	White granite, biotite crystals, quartz	o/c	800	406	479	1.08	469	396	1.2	103%
213368	393431	5572364	KL	20070907	THOR										

KENORA NORTH ROCK SAMPLES						DNC			INAA		calculations				
SAMPLE NUMBER	UTM Na 83 EASTING	UTM Na 83 NORTHING	SAMPLE TAK	DATE	GRID BLOCK	ROCK DESCRIPTION	SAMPLE TYPE	ppm U	ppm g	ppm Th	ppm U	RATIO Th/U	RATIO DNC/INAA		
213373	393423	5572387	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	8000	994	1173	1.03	429	829	0.4	120%
213374	393423	5572387	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	8000	902	1064	1.06	443	881	0.5	102%
213375	393420	5572384	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	8000	302	356	1.07	36	316	0.1	96%
213376	393420	5572384	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	8000	919	1084	1.06	411	796	0.4	115%
213377	393420	5572384	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	8000	325	384	1.04	122	323	0.4	101%
213378	393420	5572384	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	8000	502	592	1.03	219	479	0.4	105%
213379	393420	5572384	KL	20070907	THOR	(carnotite) white granite, biotite crystals	o/c	8000	606	715	1.05	318	612	0.5	99%
213380	393549	5572327	KL	20070907	THOR	Red granite, fine grain biotite	o/c	7000	342	404	1.02	260	316	0.8	108%
213381	393549	5572327	KL	20070907	THOR	Red granite, fine grain biotite	o/c	7000	224	264	1.03	213	221	1.0	101%
213382	393549	5572327	KL	20070907	THOR	Red granite, fine grain biotite	o/c	7000	175	207	1.02	213	179	1.2	98%
213383	393570	5572343	KL	20070907	THOR	WHITE-PINK GRANITE, BIOTITE CRYSTALS	o/c	7100	532	628	1.02	327	477	0.6	112%
213384	393570	5572343	KL	20070907	THOR	WHITE-PINK GRANITE, BIOTITE CRYSTALS	o/c	7100	353	417	1.06	196	351	0.6	101%
213385	393570	5572343	KL	20070907	THOR	WHITE-PINK GRANITE, BIOTITE CRYSTALS	o/c	7100	423	499	1.03	316	397	0.7	107%
213386	392236	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, pink-white granite	o/c	>10000	895	1056	1.07	298	830	0.3	108%
213387	392236	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, pink-white granite	o/c	>10000	818	965	1.01	364	910	0.4	90%
213388	392236	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, pink-white granite	o/c	>10000	726	857	1.02	329	670	0.5	108%
213389	392236	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, pink-white granite	o/c	>10000	1210	1428	1.01	504	1170	0.4	103%
213390	392236	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, pink-white granite	o/c	>10000	935	1103	1.10	334	1022	0.4	91%
213391	392237	5571984	KL	20070929	THOR-WEST	Reddish granite, fine grain biotite	o/c	7000	330	389	1.07	216	361	0.7	91%
213392	392237	5571984	KL	20070929	THOR-WEST	Reddish granite, fine grain biotite	o/c	7000	415	490	1.04	197	431	0.5	96%
213393	392911	5570391	KL	20070907	ENGLISH RIVER	Pyrite, chalcopyrite, pyrrolite?	o/c	N/A	136	160	1.02	25	155	0.2	88%
213394	392911	5570391	KL	20070907	ENGLISH RIVER	Pyrite, chalcopyrite, pyrrolite?	o/c	N/A	13	15	1.05	7	15	0.6	82%
213395	392229	5571984	KL	20070929	THOR-WEST	Biotite book, biotite crystals, white granite	o/c	1000	43	51	1.08	7	50	0.2	86%
213396	392229	5571984	KL	20070929	THOR-WEST	Biotite book, biotite crystals, white granite	o/c	1000	16	19	1.08	8	19	0.5	85%
213397	392229	5571984	KL	20070929	THOR-WEST	Biotite book, biotite crystals, white granite	o/c	1000	14	17	1.05	7	17	0.5	85%
213398	392230	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, white granite	o/c	6000	733	865	1.06	228	840	0.3	87%
213399	392230	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, white granite	o/c	6000	632	746	1.04	166	616	0.3	103%
213400	392230	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, white granite	o/c	6000	646	762	1.08	201	744	0.3	87%
213401	392230	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, white granite	o/c	6000	715	844	1.09	215	787	0.3	91%
213402	392230	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, white granite	o/c	>10000	2110	2490	1.01	825	2200	0.4	96%
213403	392230	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, white granite	o/c	>10000	556	656	1.03	303	667	0.5	83%
213404	392230	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, white granite	o/c	>10000	2490	2938	1.06	750	2400	0.3	104%
213405	392230	5571983	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, white granite	o/c	>10000	1790	2112	1.02	746	1710	0.4	105%
213406	392257	5571887	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, white granite	o/c	>8400	75	89	1.07	71	92	1.0	81%
213407	392257	5571887	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, white granite	o/c	>8400	243	287	1.06	147	303	0.6	80%
213408	392257	5571887	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, white granite	o/c	>8400	78	92	1.01	66	100	0.8	78%
213409	392257	5571887	KL	20070929	THOR-WEST	(Carnotite)biotite crystals, white granite	o/c	>8400	358	422	1.04	220	409	0.6	87%
213465	386847	5576097	KL	20071110	PANCER	Graphite, pyrrolite?	o/c	6	7	1.05	19	5	3.2	114%	
213466	386826	5576180	KL	20071111	PANCER (TRENCH)	Sheared pegmatite, biotite crystals	o/c	384	453	1.06	17	357	0.0	108%	
213467	386835	5576190	KL	20071112	PANCER	Carnotite, med. Pegmatite	o/c	1000	501	591	1.09	3	477	0.0	105%
213468	386836	5576197	KL	20071113	PANCER	Carnotite, med. Pegmatite, biotite crystals	o/c	1700	1170	1381	1.03	78	1160	0.1	101%
213469	386835	5576197	KL	20071114	PANCER	Carnotite, med. Pegmatite, biotite crystals	o/c	1700	1290	1522	1.02	14	1260	0.0	102%
213470	386924	5576769	KL	20071115	PANCER	Biotite cluster, orange granite, carnotite	o/c	>10,000	2070	2443	1.07	245	1820	0.1	114%
213471	386924	5576769	KL	20071116	PANCER	Biotite cluster, orange granite, carnotite	o/c	>10,000	1440	1699	1.01	162	1350	0.1	107%
213472	386924	5576769	KL	20071117	PANCER	Biotite cluster, orange granite, carnotite	o/c	>10,000	990	1168	1.05	152	970	0.2	102%
213473	386924	5576773	KL	20071118	PANCER	Biotite crystals, red granite, carnotite	o/c	7200	777	917	1.08	93	732	0.1	106%
213474	386924	5576773	KL	20071119	PANCER	Biotite crystals, red granite, carnotite	o/c	7200	561	662	1.05	80	517	0.1	109%
213475	386923	5576774	KL	20071120	PANCER	Biotite crystals, red granite, carnotite	o/c	6200	522	616	1.06	144	483	0.3	108%
213476	386923	5576774	KL	20071121	PANCER	Biotite crystals, red granite, carnotite	o/c	6200	559	660	1.04	115	547	0.2	102%
213477	386923	5576774	KL	20071122	PANCER	Biotite crystals, red granite, carnotite	o/c	6200	686	809	1.01	164	639	0.2	107%
213478	386923	5576774	KL	20071123	PANCER	Biotite crystals, red granite, carnotite	o/c	6200	1020	1204	1.08	247	991	0.2	103%
213479	386923	5576774	KL	20071124	PANCER	Biotite crystals, red granite, carnotite	o/c	6200	745	879	1.06	171	731	0.2	102%
213480	386714	5576292	KL	20071125	PANCER (TRENCH)	Glass texture, carnotite, biotite crystals	o/c	4000	306	361	1.06	10	302	0.0	101%
213481	386714	5576292	KL	20071126	PANCER	Glass texture, carnotite, biotite crystals	o/c	4000	302	356	1.01	20	301	0.1	100%
213482	386710	5576290	KL	20071127	PANCER	Grey granite, biotite crystals	o/c	5000	444	524	1.05	38	445	0.1	100%
213483	386756	5576340	KL	20071128	PANCER	Biotite crystals, pink granite, carnotite	o/c	3100	1470	1735	1.02	46	1400	0.0	105%
213484	386830	5576310	KL	20071129	PANCER (TRENCH)	Biotite crystals, pink granite, carnotite	o/c	2500	757	893	1.07	66	728	0.1	104%
213485	386829	5576332	KL	20071130	PANCER (TRENCH)	Biotite crystals, orange granite, carnotite	o/c	7000	1230	1451	1.07	158	1260	0.1	98%
213486	386822	5576373	KL	20071201	PANCER	Sedimentary, biotite, glassy texture	o/c	>10,000	229	270	1.00	126	223	0.6	103%
213487	386826	5576374	KL	20071202	PANCER	Biotite crystals, pink granite, carnotite	o/c	7100	956	1128	1.07	171	920	0.2	104%
213488	386835	5576187	KL	20071203	PANCER	Carnotite, large pegmatite, biotite crystals	o/c	1000	427	504	1.06	11	419	0.0	102%
213489	386670	5576373	KL	20071204	PANCER	Sedimentary, biotite, glassy texture	o/c	>10,000	638	753	1.04	238	608	0.4	105%
213490	386670	5576373	KL	20071205	PANCER	Sedimentary, biotite, glassy texture	o/c	>10,000	909	1073	1.06	240	888	0.3	102%
213491	386662	5576376	KL	20071206	PANCER	Biotite crystals, sedimentary rock, glassy texture	o/c	>10,000	157	185	1.07	45	151	0.3	104%
213492	386662	5576376	KL	20071207	PANCER	Biotite crystals, sedimentary rock, glassy texture	o/c	>10,000	73	85	1.01	95	76	1.3	96%
213493	386662	5576376	KL	20071208	PANCER	Biotite crystals, sedimentary rock, glassy texture	o/c	>10,000	224	264	1.07	57	230	0.3	97%
213494	386647	5576377	KL	20071209	PANCER	Fine grain biotite, glassy texture	o/c	6600	2210	2608	1.03	470	1990	0.2	111%
213495	386647	5576377	KL	20071210	PANCER	Fine grain biotite, glassy texture	o/c	6600	2430	2867	1.07	345	2120	0.1	115%
213496	386619	5576368	KL	20071211	PANCER	Biotite crystals, pink granite, bird claw	o/c	6500	604	713	1.07	49	590	0.1	102%
213497	386619	5576368	KL	20071212	PANCER	Biotite crystals, pink granite, bird claw	o/c	6500	514	607	1.00	42	517	0.1	99%
213498	386619	5576368	KL	20071213	PANCER	Biotite crystals, pink granite, bird claw	o/c	6500	441	520	1.05	42	424	0.1	104%
213499	386627	5576371	KL	20071214	PANCER	Biotite crystals, orange granite, carnotite	o/c	5500	904	1067	1.03	96	960	0.1	94%
213500	386627	5576371	KL	20071215	PANCER	Biotite crystals, orange granite, carnotite	o/c	5500	509	601	1.07	69	535	0.1	95%
252914	394005	5571862	KL	20070801	ENGLISH RIVER	White granite, biotite schist	o/c	2300	19	22	1.02	16	16	0.8	116%
252915	392214	5574593	KL	20070801	ENGLISH RIVER	Med grain granite, med grain biotite	o/c	2100	6	8	1.02	17	6	2.6	116%
252916	394005	5571863	KL	20070801	ENGLISH RIVER	White granite, biotite crystals	o/c	3000	78	92	1.03	31	73	0.4	108%
252917	393980	5571437	KL	20070801	ENGLISH RIVER	Large biotite crystals, white granite	o/c	2500	17	20	1.01	5	14	0.3	121%
252918	394005	5571860	KL	20070801	ENGLISH RIVER	Med grain white granite, large biotite crystals	o/c	7000	479	565	1.03	189	440	0.4	109%
252919	394005	5571860	KL												

KENORA NORTH ROCK SAMPLES										DNC			INAA		calculations	
SAMPLE NUMBER	UTM Na 83 EASTING	UTM Na 83 NORTHING	SAMPLE TAK	DATE	GRID BLOCK	ROCK DESCRIPTION	SAMPLE TYPE	CPFS	ppm U	ppm Pb	ppm g	ppm Th	ppm U	RATIO Th/U	RATIO DNC/INAA	
252926	393561	5572039	KL	20070801	ENGLISH RIVER	Biotite crystals, small quartz crystals, white granite	o/c	7400	609	719	1.02	255	594	0.4	103%	
252927	393561	5572039	KL	20070801	ENGLISH RIVER	Biotite crystals, small quartz crystals, white granite	o/c	11000	935	1103	1.02	423	961	0.5	97%	
252928	393561	5572039	KL	20070801	ENGLISH RIVER	Biotite crystals, small quartz crystals, white granite	o/c	11000	350	413	1.03	248	371	0.7	94%	
252929	393561	5572039	KL	20070801	ENGLISH RIVER	Biotite crystals, small quartz crystals, white granite	o/c	10000	806	951	1.07	272	833	0.3	97%	
252930	393921	5571715	KL	July 20/07	ENGLISH RIVER	Fine grain biotite, rust through rock	o/c	2400	82	97	1.06	23	80	0.3	103%	
252931	393921	5571715	KL	July 20/07	ENGLISH RIVER	Fine grain biotite, rust through rock	o/c	5000	118	139	1.04	90	112	0.8	105%	
252932	393921	5571715	KL	July 20/07	ENGLISH RIVER	Fine grain biotite, rust through rock	o/c	5000	750	885	1.06	163	728	0.2	103%	
252933	387074	5578870	KL	July 22/07	ENGLISH RIVER	Brown staining, quartz crystals(small), biotite	o/c	6000	50	59	1.05	2200	-30	43.7	-168%	
252934	387074	5578870	KL	July 22/07	ENGLISH RIVER	Brown staining, quartz crystals(small), biotite	o/c	6000	40	47	1.05	1940	41	48.9	98%	
252935	387074	5578870	KL	July 22/07	ENGLISH RIVER	Brown staining, quartz crystals (small), biotite	o/c	6000	91	107	1.01	3870	99	42.8	91%	
252936	387074	5578870	KL	July 22/07	ENGLISH RIVER	Brown staining, quartz crystals (small), biotite	o/c	6000	44	51	1.05	1960	54	45.0	81%	
252937	387074	5578870	KL	July 22/07	ENGLISH RIVER	Brown staining, quartz crystals (small), biotite	o/c	6000	81	96	1.05	3480	102	43.0	79%	
252938	387074	5578800	KL	July 22/07	ENGLISH RIVER	Rusly rock, pyrite copper?	o/c	N/A	2	2	1.03	6	1	3.4	320%	
252939	387074	5578800	KL	July 22/07	ENGLISH RIVER	Sulphur, pyrrhotite?	o/c	N/A	2	3	1.02	70	3	31.7	65%	
252940	393475	5572028	KL	July 27/07	THOR - DISCOVER	Yellow staining, med pegmatite, med grain granite	o/c	6000	1620	1912	1.04	559	1660	0.3	98%	
252941	393475	5572028	KL	July 27/07	THOR - DISCOVER	Yellow staining, med pegmatite, med grain granite	o/c	6000	1190	1404	1.03	158	1190	0.1	100%	
252942	393481	5572014	KL	20070801	THOR	Pink med grain granite(biotite crystals)	o/c	4000	289	341	1.00	160	285	0.6	102%	
252943	393481	5572014	KL	20070801	THOR	Pink med grain granite(biotite crystals)	o/c	4000	240	283	1.05	138	242	0.6	99%	
252944	393480	5572008	KL	20070801	THOR	Multi colour granite small biotite crystals, small quartz	o/c	92000	272	321	1.05	193	271	0.7	100%	
252945	393490	5572008	KL	20070801	THOR	Multi colour granite small biotite crystals, small quartz	o/c	92000	269	317	1.06	183	267	0.7	101%	
252946	393496	5572005	KL	20070801	THOR	Yellow cake, yellow staining, pink granite, med pegmatite	o/c	4000	1040	1227	1.03	157	1050	0.2	99%	
252947	393496	5572005	KL	20070801	THOR	Yellow cake, yellow staining, pink granite, med pegmatite	o/c	4000	787	929	1.07	127	764	0.2	103%	
252948	393464	5572020	KL	20070801	THOR	Biotite crystals, pink granite, yellow staining	o/c	2150	832	982	1.03	54	820	0.1	101%	
252949	393465	5572019	KL	20070801	THOR	Quartz crystals, fine grain biotite, med pegmatite	o/c	6100	236	278	1.06	157	238	0.7	99%	
252950	393465	5572019	KL	20070801	THOR	Quartz crystals, fine grain biotite, med pegmatite	o/c	6100	299	353	1.06	218	303	0.7	99%	
361669	385817	5574258	JG	Oct 13, 07	Pancer EXT - SW	granite, biotite	o/c	9700	237	280	1.07	1650	210	7.0	113%	
361670	386704	5576256	JG	Oct 14, 07	Pancer EXT - SW	gossan	o/c	5	6	1.05	18	6	3.4	84%		
361671	385240	5573344	JG	Oct 15, 07	Pancer EXT - Island	granite, camotite, biotite	o/c	1800	83	98	1.01	401	78	4.8	107%	
361672	385322	5573459	JG	Oct 15, 07	Pancer EXT - Island	granite, orange staining, biotite	o/c	1600	69	81	1.04	13	72	0.2	96%	
361673	385339	5573489	JG	Oct 15, 07	Pancer EXT - Island	granite, orange staining, biotite	o/c	5200	189	223	1.07	40	195	0.2	97%	
361674	393226	5571988	JG	Oct 15, 07	THOR S	granite, biotite	o/c	2600	67	79	1.07	113	69	1.7	97%	
361675	393244	5572050	JG	Oct 16, 07	THOR S	granite, camotite, biotite	o/c	7400	230	271	1.04	204	233	0.9	99%	
361676	393191	5572050	JG	Oct 16, 07	THOR S	granite, camotite, biotite, hematite stained	o/c	4200	64	75	1.07	99	86	1.6	96%	
361677	393917	5572326	JG	Oct 20, 07	THOR EAST	granite, camotite, biotite	o/c	3500	685	808	1.06	65	704	0.1	97%	
361678	393915	5572324	JG	Oct 20, 07	THOR EAST	granite, camotite, biotite	o/c	6800	3610	4260	1.04	102	3630	0.0	99%	
361679	393924	5572330	JG	Oct 20, 07	THOR EAST	pink granite, camotite, biotite, green staining	o/c	6500	1410	1664	1.06	290	1430	0.2	99%	
361680	393720	5572376	JG	Oct 20, 07	THOR EAST	granite, camotite, biotite	o/c	2700	38	45	1.07	41	41	1.1	92%	
361681	393720	5572447	JG	Oct 20, 07	THOR EAST	granite, camotite, biotite green staining	o/c	5200	291	343	1.08	2	301	0.0	97%	
361682	393808	5572630	JG	Oct 20, 07	THOR EAST	pink granite, camotite, biotite	o/c	2200	72	85	1.07	113	74	1.6	97%	
361683	393937	5572279	JG	Oct 21, 07	THOR SE	granite, biotite	o/c	3200	57	67	1.06	104	59	1.0	96%	
361684	394014	5572267	JG	Oct 21, 07	THOR SE	granite, biotite, orange staining	o/c	1300	52	62	1.07	10	59	2.0	89%	
361685	393812	5572194	JG	Oct 21, 07	THOR SE	granite, biotite, hematite staining	o/c	3200	123	145	1.08	146	137	1.2	90%	
361686	393780	5572075	JG	Oct 21, 07	THOR SE	granite, biotite, hematite staining	o/c	3000	95	112	1.04	99	107	1.0	89%	
361687	393742	5571912	JG	Oct 21, 07	THOR SE	granite, biotite, hematite staining	o/c	6500	190	224	1.02	341	176	1.8	108%	
361688	393753	5571910	JG	Oct 21, 07	THOR SE	granite, biotite, hematite staining	o/c	5700	155	183	1.06	210	144	1.4	108%	
361689	394604	5572174	JG	Oct 22, 07	THOR EAST	altered granite, biotite	o/c	3300	89	105	1.06	60	93	0.7	95%	
361690	394394	5572100	JG	Oct 22, 07	THOR EAST	altered granite, biotite	o/c	4200	81	95	1.08	64	84	0.8	97%	
361691	394336	5572105	JG	Oct 22, 07	THOR EAST	granite, biotite	o/c	4000	57	67	1.07	116	57	2.0	99%	
361692	394766	5572183	JG	Oct 22, 07	THOR EAST	granite, camotite, biotite, hematite stained	o/c	off scale	276	326	1.05	647	264	2.3	105%	
361693	394729	5571866	JG	Oct 24, 07	THOR SE	granite, biotite, hematite staining	o/c	2700	139	164	1.07	35	136	0.3	102%	
361694	391563	5571832	JG	Oct 24, 07	THOR SE	granite, biotite	o/c	2800	45	53	1.05	20	47	0.4	95%	
361695	391424	5571904	JG	Oct 25, 07	THOR WEST	granite, biotite	o/c	1600	87	102	1.01	42	86	0.5	101%	
361696	391259	5571803	JG	Oct 25, 07	THOR WEST	granite, biotite, smokey quartz	o/c	3000	123	145	1.07	107	122	0.9	101%	
361697	390938	5571677	JG	Oct 25, 07	THOR WEST	granite, camotite, biotite, smokey quartz	o/c	5800	119	140	1.04	108	119	0.9	100%	
361698	418313	5579438	JG	Oct 26, 07	SCOTTY RD	granite, biotite	o/c	off scale	4400	5192	1.04	146	4440	0.0	99%	
361699	417950	5579038	JG	Oct 26, 07	SCOTTY RD	gossan	float	19	22	1.04	2	21	0.1	89%		
361700	418313	5579460	JG	Oct 26, 07	SCOTTY RD	granite, biotite	o/c	3400	127	150	1.04	16	136	0.1	94%	
390706	418966	5577321	JG	Oct 27, 07	SCOTTY ROAD	pink granite, biotite	o/c	4900	278	328	1.02	168	278	0.6	100%	
390707	419162	5579715	JG	Oct 27, 07	SCOTTY ROAD	granite, biotite	o/c	4700	140	165	1.06	12	150	0.1	93%	
390708	415571	5576875	JG	Oct 29, 07	LENNAN ROAD	pink granite, camotite, biotite	o/c	2100	538	635	1.05	33	570	0.1	94%	
390709	414055	5575866	JG	Oct 30, 07	LENNAN ROAD	granite, pink, biotite	o/c	2100	37	44	1.07	80	44	2.1	84%	
390710	414047	5575852	JG	Oct 30, 07	LENNAN ROAD	pink granite, biotite	o/c	1600	33	38	1.04	90	38	2.8	86%	
390711	412595	5575476	JG	Oct 30, 07	LENNAN ROAD	pink granite, biotite	o/c	2200	25	29	1.03	51	28	2.1	88%	
390712	412614	5575118	JG	Oct 30, 07	LENNAN ROAD	granite, biotite	o/c	2600	48	56	1.07	30	53	0.6	89%	
390713	412874	5575758	JG	Oct 30, 07	LENNAN ROAD	granite, camotite, biotite	o/c	2200	65	77	1.04	420	64	6.4	103%	
390714	412740	5575952	JG	Oct 31, 07	LENNAN/SCOTTY	pink granite, biotite	o/c	3100	105	124	1.07	49	110	0.5	95%	
390715	410935	5576163	JG	Oct 31, 07	LENNAN/SCOTTY	pink granite, camotite, biotite	o/c	1400	44	52	1.08	57	49	1.3	90%	
390716	410926	5575843	JG	Oct 31, 07	LENNAN/SCOTTY	pink granite, camotite, biotite	o/c	3400	145	171	1.03	110	156	0.8	93%	
390717	411047	5575628	JG	Oct 31, 07	LENNAN/SCOTTY	pink granite, biotite	o/c	2700	78	92	1.06	287	75	3.7	105%	
31501	386627	5576371	KL	20071216	PANCER	Biotite crystals, pink-orange granite, camotite	o/c	5500	404	477	1.04	53	437	0.1	92%	
31502	386648	5576362	KL	20071217	PANCER	Biotite crystals, pink granite	o/c	3000	39	46	1.07	5	41	0.1	97%	
31503	386648	5576362	KL	20071218	PANCER	Biotite crystals, pink granite	o/c	3000	29	34	1.03	5	30	0.2	95%	
31504	386688	5576372	KL	20071219	PANCER	Sedimentary rock, glassy texture, rusty spots	o/c	9000	471	556	1.06	135	492	0.3	96%	
31505	386690	5576375	KL	20071220	PANCER	Biotite crystals, glassy texture	o/c	>10,000	890	1050	1.05	108	894	0.1	100%	
31506	386595	5576341	KL	20071101	PANCER TRAIL	Carnotite, smokey quartz, orange granite	o/c	600	108	127	1.01	147	113	1.4	96%	
31507	386834	5576329	KL	20071102	PANCER MAIN TRAIL	Carnotite, smokey quartz, orange-pink granite	G 1m sf	1300	31	36	1.05	233	33	7.6	94%	
31508	386834	5576330	KL	20071103	PANCER MAIN TRAIL	Carnotite, smokey quartz, orange-pink granite	G 1m sf	1100	29	34	1.05	184	27	6.3	107%	
31509	386834	5576331	KL	20071104	PANCER MAIN TRAIL	Carnotite, smokey quartz, orange-pink granite	G 1m sf	1700	22	26	1.05	14	26	0.6	85%	
31510	386834	5576332	KL	20071105	PANCER MAIN TRAIL	Carnotite, smokey quartz, orange-pink granite	G 1m sf	1600	34	41	1.05	29	39	0.8	89%	
31511	386834	5576333	KL	20071106	PANCER MAIN TRAIL	Carnotite, smokey quartz, orange-pink granite	G 1m sf	4000	759							

KENORA NORTH ROCK SAMPLES						DNC			INAA		calculations				
SAMPLE	UTM Na 83	UTM Na 83	SAMPLE			SAMPLE	ppm	ppm	g	ppm	ppm	RATIO	RATIO		
NUMBER	EASTING	NORTHING	TAK	DATE	GRID BLOCK	ROCK DESCRIPTION	TYPE	CPS	U3O8	MASS	Th	U	Th/U	DNC/INAA	
31515	386834	5576337	KL	20071110	PANCER MAIN TR	Carnotite, smokey quartz, orange-pink granite	G 1m sf	700	112	132	1.08	53	119	0.5	94%
31516	386834	5576338	KL	20071111	PANCER MAIN TR	Carnotite, smokey quartz, orange-pink granite	G 1m sf	1100	318	375	1.06	17	324	0.1	98%
31517	386834	5576339	KL	20071112	PANCER MAIN TR	Carnotite, smokey quartz, orange-pink granite	G 1m sf	1800	318	375	1.07	19	331	0.1	96%
31518	386834	5576340	KL	20071113	PANCER MAIN TR	Carnotite, smokey quartz, orange-pink granite	G 1m sf	3500	333	393	1.07	42	337	0.1	99%
31519	386834	5576341	KL	20071114	PANCER MAIN TR	Carnotite, smokey quartz, orange-pink granite	G 1m sf	2000	168	198	1.08	17	161	0.1	104%
31520	386834	5576342	KL	20071115	PANCER MAIN TR	Carnotite, smokey quartz, orange-pink granite	G 1m sf	1400	403	476	1.08	35	403	0.1	100%
31521	386834	5576343	KL	20071116	PANCER MAIN TR	Carnotite, smokey quartz, orange-pink granite	G 1m sf	1800	19	22	1.07	11	21	0.6	89%
31522	386830	5576344	KL	20071117	PANCER MAIN TR	Carnotite, smokey quartz, orange-pink granite	G 1m sf	2000	130	153	1.04	20	134	0.2	97%
31523	386832	5576345	KL	20071118	PANCER MAIN TR	Carnotite, smokey quartz, orange-pink granite	G 1m sf	2100	329	388	1.08	24	316	0.1	104%
31524	386832	5576346	KL	20071119	PANCER MAIN TR	Carnotite, smokey quartz, orange-pink granite	G 1m sf	2100	351	414	1.05	48	351	0.1	100%
31525	386823	5576371	KL	20071120	PANCER 8000 TRE	Carnotite, biotite crystals, pink granite	G 1m sf	1800	538	635	1.04	112	550	0.2	98%
31526	386823	5576372	KL	20071121	PANCER 8000 TRE	Carnotite, biotite crystals, pink granite	G 1m sf	800	174	205	1.03	58	183	0.3	95%
31527	386823	5576373	KL	20071122	PANCER 8000 TRE	Carnotite, biotite crystals, pink granite	G 1m sf	2000	37	44	1.08	11	45	0.3	82%
31528	386822	5576374	KL	20071123	PANCER 8000 TRE	Carnotite, biotite crystals, pink granite	G 1m sf	3400	415	490	1.07	76	446	0.2	93%
31529	386822	5576375	KL	20071124	PANCER 8000 TRE	Carnotite, biotite crystals, pink granite	G 1m sf	2600	1630	1923	1.04	144	1530	0.1	107%
31530	386822	5576376	KL	20071125	PANCER 8000 TRE	Carnotite, smokey quartz, orange-pink granite	G 1m sf	1000	180	212	1.08	35	183	0.2	98%
31531	386822	5576377	KL	20071126	PANCER 8000 TRE	Carnotite, biotite crystals, pink granite	G 1m sf	700	18	21	1.09	23	21	1.3	83%
31532	386822	5576378	KL	20071127	PANCER 8000 TRE	Carnotite, biotite crystals, pink granite	Rubble	600	375	443	1.07	47	381	0.1	98%
31533	386820	5576378	KL	20071128	PANCER 8000 TRE	Carnotite, biotite crystals, pink granite	Rubble	600	45	53	1.06	23	51	0.5	89%
31534	386714	5576331	KL	20071129	PANCER	Carnotite, biotite crystals, large pegmatite	o/c	5200	760	897	1.07	295	750	0.4	101%
31535	386760	5576336	KL	20071130	PANCER	Pink granite, biotite crystals, carnotite	o/c	4000	1700	2006	1.07	108	1630	0.1	104%
31536	405142	5571747	KL	20071130	LENNAN ROAD	Yellow staining, pink granite	o/c	2000	93	110	1.06	146	102	1.6	91%
31537	405142	5571742	KL	20071130	LENNAN ROAD	Biotite schist, pink granite	o/c	9000	38	44	1.04	67	42	1.8	90%
31542	393463	5572273	KL	20071201	THOR, NORTH TR	Fine grain biotite, carnotite, white granite, biotite	2M CHII	1800	144	170	1.07	141	145	1.0	99%
31543	393464	5572272	KL	20071202	THOR, TRENCH	Fine grain biotite, carnotite, white granite, biotite	2M CHII	3000	78	92	1.05	161	82	2.1	96%
31544	393464	5572271	KL	20071203	THOR, TRENCH	Fine grain biotite, carnotite, white granite, biotite	2M CHII	3800	350	413	1.01	290	354	0.8	99%
31545	393464	5572270	KL	20071204	THOR, TRENCH	Fine grain biotite, carnotite, white granite, biotite	2M CHII	1900	167	197	1.05	157	170	0.9	98%
31546	393465	5572269	KL	20071205	THOR, TRENCH	Fine grain biotite, carnotite, white granite, biotite	2M CHII	1800	143	169	1.01	196	140	1.4	102%
31547	393465	5572268	KL	20071206	THOR, TRENCH	Fine grain biotite, carnotite, white granite, biotite	2M CHII	4500	63	74	1.05	108	64	1.7	98%
31548	393465	5572267	KL	20071207	THOR, TRENCH	Fine grain biotite, carnotite, white granite, biotite	2M CHII	1600	267	315	1.05	87	264	0.3	101%
31549	393466	5572266	KL	20071208	THOR, TRENCH	Fine grain biotite, carnotite, white granite, biotite	2M CHII	880	9	11	1.08	64	10	7.0	98%
31550	393466	5572265	KL	20071209	THOR, SOUTH TR	Fine grain biotite, carnotite, white granite, biotite	2M CHII	1800	38	45	1.07	111	40	2.9	97%
31578	393466	5572264	KL	20080106	THOR TRENCH	White granite, biotite crystals, fine grain biotite, c	2M CHII	1600	23	27	1.06	68	25	2.9	94%
31579	393466	5572263	KL	20080107	THOR TRENCH	White granite, biotite crystals, fine grain biotite, c	2M CHII	1600	42	49	1.04	67	42	1.6	100%
31580	393467	5572262	KL	20080108	THOR TRENCH	White granite, biotite crystals, fine grain biotite, c	2M CHII	1800	429	506	1.07	159	447	0.4	96%
31581	393467	5572261	KL	20080109	THOR TRENCH	White granite, biotite crystals, fine grain biotite, c	2M CHII	1200	45	53	1.08	47	43	1.1	104%
31582	393467	5572260	KL	20080110	THOR TRENCH	White granite, biotite crystals, fine grain biotite, c	2M CHII	1100	22	26	1.04	80	21	3.7	104%
31401	378108	5579131	DS	Oct 12/07	CANFER - ISLAND	granite, m-cgr white granite	o/c	600	1670	1971	1.02	9	1660	0.0	101%
31402	377862	5579488	DS	Oct 12/07	CANFER - N SHOR	granite peg, mgr	o/c	2400	65	76	1.06	374	64	5.8	100%
31403	379056	5579157	DS	Oct 12/07	CANFER - TR #6	granite, tan leucogranite	o/c	2000	45	53	1.07	28	48	0.6	93%
31404	379138	5579167	DS	Oct 12/07	CANFER - TR 5A	granite, white	o/c	1700	235	277	1.09	108	243	0.5	97%
31405	379111	5579161	DS	Oct 12/07	CANFER TR #5	white granite	o/c	1200	49	58	1.06	314	54	6.4	90%
31406	379270	5579209	DS	Oct 14/07	CANFER- TR#2	white granite	o/c	3500	188	222	1.01	152	192	0.8	98%
31407	386671	5576390	DS	Oct 14/07	PANCER	pink granite, biotite, amp contact	o/c	3000	230	271	1.04	57	247	0.2	93%
31408	386833	5576344	DS	Oct 14/07	PANCER MAIN TR	pink granite-peg	o/c	9500	444	524	1.05	55	497	0.1	89%
31409	385030	5573660	DS	Oct 15/07	Pancer EXT	granite, protodyke, grab	o/c	2800	23	27	1.04	35	27	1.5	84%
31410	385013	5573727	DS	Oct 15/07	Pancer EXT	granite, protodyke, 0.5 m	o/c	1400	86	101	1.07	100	94	1.2	92%
31411	384908	5573825	DS	Oct 16/07	CANFER	granite, protodyke, spotty counts	o/c	2000	74	88	1.08	99	75	1.3	98%
31412	379114	5579160	DH	Oct 16/07	CANFER Ir #5	leuco granite	o/c	1500	244	288	1.07	98	257	0.4	95%
31413	379271	5579206	DH	Oct 20/07	CANFER TR #2	granite, 1M NORTH OF 31406.	o/c	8000	207	244	1.04	517	211	2.5	98%
31414	392450	5573100	DS	Oct 20/07	THOR EXT	Petalite type pegmatite. W of Dravens	o/c	200	3	4	1.03	13	5	4.1	65%
31415	394011	5570558	DS	Oct 20/07	THOR EXT	petalite, James Dike, 200 m from road	o/c	200	4	5	1.07	4	4	0.9	92%
31416	393991	5570550	DS	Oct 20/07	THOR EXT	petalite, James dyke, S contact	o/c	200	3	3	1.05	2	3	0.8	79%
31417	393990	5570552	DS	Oct 20/07	THOR EXT	petalite, James dyke, N contact	o/c	200	9	10	1.08	11	11	1.2	78%
31418	393780	5569500	DS	Oct 20/07	ENGLISH RIVER	Petalite type pegmatite, fractionated muscovite	o/c	200	8	9	1.08	8	9	1.1	83%
31419	395490	5572590	DS	Oct 20/07	THOR	pegmatite, Thor type, across from lodge	o/c	2400	85	101	1.02	497	83	5.8	102%
31420	393427	5572055	DS	Sept 30/07	THOR	pegmatite Thor type, random grab	o/c	1000	10	11	1.06	18	10	1.8	93%
31421	381222	5572903	DS	Oct 10/07	Celyn Lake E, EF	grey granite, fgr almost porphyry	o/c	3000	142	168	1.04	36	144	0.3	99%
31422	381223	5572903	DS	Oct 10/07	Celyn Lake E, EF	grey granite, fgr almost porphyry	o/c	3000	156	184	1.09	48	167	0.3	93%
31423	380753	5570096	DS	Oct 11/07	Tourist Lake - E F	granite, pale leucogranite	o/c	4000	717	846	1.01	86	714	0.1	100%
31424	386783	5576375	DS	Nov 12/07	PANCER	granite, fmgr pink w magnetite clots	o/c	150	5	6	1.04	22	6	4.1	84%

Appendix 3

Assay Certificates

Quality Analysis ...



Innovative Technologies

Date Submitted: 22-Jun-07
Invoice No.: A07-2427
Invoice Date: 06-Jul-07
Your Reference: ONTARIO GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

9 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT **A07-2427**

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Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Activation Laboratories Ltd.

Report: A07-2427

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD- ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD- ICP	MULT INAA / TD- ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
331404	< 2	0.7	30	< 0.3	< 1	46	3	20	< 0.01	3.62	< 0.5	560	1	< 2	< 0.5	0.88	2	16	2	0.4	0.77	5	< 1	< 5
331406	< 2	1.3	12	< 0.3	< 1	73	2	32	< 0.01	3.89	< 0.5	530	1	< 2	9.7	0.54	3	7	4	< 0.2	0.91	7	< 1	< 5
331407	< 2	5.8	11	< 0.3	< 1	52	< 1	36	< 0.01	3.73	< 0.5	330	1	< 2	2.0	0.51	17	12	2	0.8	1.72	38	< 1	< 5
331408	< 2	1.8	7	< 0.3	1	83	< 1	39	< 0.01	4.03	< 0.5	270	2	< 2	< 0.5	0.79	3	< 2	< 1	< 0.2	1.18	6	< 1	< 5
331409	< 2	1.5	8	< 0.3	< 1	34	1	23	< 0.01	3.59	< 0.5	450	< 1	< 2	< 0.5	0.29	< 1	< 2	< 1	< 0.2	1.14	9	< 1	< 5
331410	< 2	2.2	11	0.3	1	47	< 1	28	< 0.01	3.08	< 0.5	< 50	1	< 2	3.2	0.64	< 1	< 2	< 1	< 0.2	1.11	12	< 1	< 5
331411	< 2	3.8	10	< 0.3	< 1	50	2	32	< 0.01	3.04	< 0.5	280	1	< 2	< 0.5	0.53	2	< 2	2	< 0.2	1.18	19	< 1	< 5
331412	< 2	0.7	67	< 0.3	47	124	48	308	0.75	4.26	< 0.5	< 50	2	< 2	< 0.5	1.52	19	74	36	0.4	6.03	2	< 1	< 5
331413	< 2	1.3	84	< 0.3	38	70	87	73	3.22	2.67	< 0.5	310	1	< 2	< 0.5	0.70	38	24	11	< 0.2	4.86	3	< 1	< 5

Activation Laboratories Ltd. Report: A07-2427

Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
331404	4.16	0.04	123	2.26	0.002	202	< 0.1	0.8	< 3	150	< 0.5	0.04	33.9	18.2	7	< 1	3	5.7	8	< 5	0.4	< 0.01	< 0.5	0.6
331406	3.92	0.02	232	2.84	0.003	291	< 0.1	1.2	< 3	82	< 0.5	0.04	143	33.2	4	6	4	24.0	34	7	1.4	< 0.01	< 0.5	1.6
331407	3.81	0.02	472	2.29	0.007	194	< 0.1	2.1	< 3	83	< 0.5	0.07	635	49.0	12	< 1	13	64.1	215	21	8.6	< 0.01	< 0.5	4.0
331408	3.16	0.03	517	2.76	0.019	131	< 0.1	1.5	< 3	111	< 0.5	0.15	431	30.1	11	< 1	8	38.8	75	5	3.2	< 0.01	< 0.5	1.4
331409	4.26	0.08	100	2.11	0.008	198	< 0.1	1.3	< 3	70	< 0.5	0.06	47.5	10.0	6	< 1	3	26.7	51	9	1.9	< 0.01	< 0.5	1.0
331410	2.77	0.03	245	3.11	0.004	96	< 0.1	1.0	< 3	86	< 0.5	0.04	436	36.5	6	< 1	3	84.7	116	17	4.2	< 0.01	< 0.5	< 0.2
331411	3.80	0.02	460	2.51	0.009	195	< 0.1	1.8	< 3	74	< 0.5	0.09	353	23.4	8	< 1	7	104	179	30	7.1	< 0.01	< 0.5	2.4
331412	2.54	1.41	1370	1.82	0.026	368	0.7	9.9	< 3	104	< 0.5	0.52	11.3	32.4	130	< 1	13	9.7	16	< 5	1.4	< 0.01	< 0.5	1.4
331413	1.21	0.44	367	1.15	0.009	119	0.2	2.5	10	62	< 0.5	0.17	59.2	34.4	29	< 1	8	3.0	7	< 5	0.7	< 0.01	< 0.5	1.1

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
331404	< 0.05	20.0	16.5	1.0589
331406	0.25	22.6	37.4	1.0422
331407	0.88	21.8	50.2	1.0672
331408	< 0.05	25.0	34.6	1.0862
331409	0.20	23.6	10.5	1.0482
331410	0.26	18.5	34.1	1.0303
331411	0.45	20.9	26.0	1.0986
331412	0.15	25.8	33.7	1.0554
331413	< 0.05	20.1	29.3	1.0774

Activation Laboratories Ltd. Report: A07-2427

Quality Control

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Br	Br	Ca	Co	Cr	Cs	Eu	Fe
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01
Analysis Method	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA
GXR-1 Meas		32.7		1000	2.4	22	770	45		715		0.24	1.75											
GXR-1 Cert		31.0		1110	3.30	18.0	730	41.0		760		0.257	3.52											
DH-1a Meas																								
DH-1a Cert																								
DNC-1 Meas		0.3		94		< 1	7	249		61		0.06	7.82											
DNC-1 Cert		0.0270		96.0		0.700	6.30	247		66.0		0.0390	9.69											
GXR-4 Meas		3.8		5900	0.5	314	49	37		70		1.75	4.95											
GXR-4 Cert		4.00		6520	0.660	310	52.0	42.0		73.0		1.77	7.20											
GXR-2 Meas		16.3		75	4.7	2	668	19		498		0.02	5.69											
GXR-2 Cert		17.0		76.0	4.10	2.10	690	21.0		530		0.0313	16.5											
SDC-1 Meas		0.3		30	< 0.3	< 1	24	35		100		0.05	3.68											
SDC-1 Cert		0.0410		30.0	0.0800	0.250	25.0	38.0		103		0.0650	8.34											
SCO-1 Meas		0.5		30	0.3	2	29	28		104		0.06	4.12											
SCO-1 Cert		0.134		28.7	0.140	1.37	31.0	27.0		103		0.0630	7.24											
GXR-6 Meas		0.9		69	0.3	3	105	27		129		0.01	5.26											
GXR-6 Cert		1.30		66.0	1.00	2.40	101	27.0		118		0.0180	17.7											
SY-2 Meas																								
SY-2 Cert																								
BL-4a Meas																								
BL-4a Cert																								
DMMAS-103 Meas	535										220			2960	500									
DMMAS-103 Cert	539										168			2950	545									
331413 Split	< 2	1.3	< 5	84	< 0.3	24	70	88	< 20	71	< 50	3.26	2.64	< 0.5	280	1	< 2	< 0.5	0.70	71.0	131		0.6	6.50
331413 Split		1.3		84	< 0.3	24	70	88		71		3.26	2.64			1	< 2		0.70	38	23	10	< 0.2	4.87

Quality Control																								
Analysis Symbol	Hf	Hg	Ir	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppm	ppm	ppb	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	5	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Analysis Method	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
GXR-1 Meas				0.06	0.25	902		0.036					293											
GXR-1 Cert				0.0500	0.217	852		0.0650					275					80.0						28
DH-1a Meas																		80.0						32.0
DH-1a Cert																								
DNC-1 Meas				0.23	4.23	1090		0.021					137		0.29			144						16
DNC-1 Cert				0.190	6.06	1150		0.0370					145		0.287			148						18.0
GXR-4 Meas				4.40	1.65	141		0.091					219					81						13
GXR-4 Cert				4.01	1.66	155		0.120					221					87.0						14.0
GXR-2 Meas				0.93	0.46	858		0.039					141					49						7
GXR-2 Cert				1.37	0.850	1010		0.105					160					52.0						17.0
SDC-1 Meas				2.56	0.58	872		0.040					164		0.59			96						18
SDC-1 Cert				2.72	1.02	883		0.0690					183		0.606			102						40.0
SCO-1 Meas				2.33	1.32	413		0.059					169		0.36			137						17
SCO-1 Cert				2.30	1.64	410		0.0900					174		0.380			131						26.0
GXR-6 Meas				1.52	0.24	1090		0.024					30					197						3
GXR-6 Cert				1.87	0.609	1010		0.0350					35.0					186						14.0
SY-2 Meas																								
SY-2 Cert																								
BL-4a Meas																								
BL-4a Cert																								
DMMAS-103 Meas							0.77			16.8	11.9								12		11.2	17		2.3
DMMAS-103 Cert							0.800			16.9	11.5								10.0		10.9	16.0		2.10
331413 Split	2	< 1	< 5	1.20	0.43	378	1.13	0.010	115	0.3	2.4	11	62	< 0.5	0.17	58.5	31.6	29	< 1	8	3.1	6	< 5	0.7
331413 Split				1.20	0.43	378		0.010					62		0.17			29		8				

Quality Control

Analyte Symbol	Sn	Tb	Yb	Lu	Mass	U	Mass
Unit Symbol	%	ppm	ppm	ppm	g	ppm	g
Detection Limit	0.01	0.5	0.2	0.05		0.1	
Analysis Method	INAA	INAA	INAA	INAA	INAA	DNC	DNC

GXR-1 Meas							
GXR-1 Cert							
DH-1a Meas						2640	
DH-1a Cert						2630	
DNC-1 Meas							
DNC-1 Cert							
GXR-4 Meas							
GXR-4 Cert							
GXR-2 Meas							
GXR-2 Cert							
SDC-1 Meas							
SDC-1 Cert							
SCO-1 Meas							
SCO-1 Cert							
GXR-6 Meas							
GXR-6 Cert							
SY-2 Meas						296	
SY-2 Cert						284	
BL-4a Meas						1240	
BL-4a Cert						1250	
DMMAS-103 Meas			2.3	0.15			
DMMAS-103 Cert			2.10	0.340			
331413 Split	< 0.01	< 0.5	0.9	< 0.05	21.5	28.8	1.0923
331413 Split							

Quality Analysis ...



Innovative Technologies

Date Submitted: 04-Jul-07
Invoice No.: A07-2628
Invoice Date: 20-Jul-07
Your Reference: U Generaz

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

13 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT **A07-2628**

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Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman". The signature is written in a cursive, flowing style.

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A07-2628

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD- ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD- ICP	MULT INAA / TD- ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
331414	< 2	0.9	14	0.3	47	62	57	31	< 0.01	4.00	1.1	160	1	< 2	1.1	1.73	5	92	2	0.7	1.06	6	< 1	< 5
331415	< 2	1.3	5	< 0.3	2	52	4	36	< 0.01	3.73	< 0.5	540	< 1	< 2	20.8	0.73	3	14	< 1	0.6	1.15	6	< 1	< 5
331416	< 2	2.8	7	< 0.3	1	43	14	35	< 0.01	4.43	< 0.5	420	6	< 2	< 0.5	0.77	5	15	3	< 0.2	1.97	33	< 1	< 5
331417	< 2	< 0.3	12	0.3	< 1	50	7	17	< 0.01	3.85	1.4	620	< 1	< 2	< 0.5	0.64	2	16	3	0.8	0.69	2	< 1	< 5
331418	< 2	0.4	25	< 0.3	3	53	59	90	< 0.01	5.87	0.9	540	1	< 2	< 0.5	1.46	17	145	11	1.4	3.94	3	< 1	< 5
331419	< 2	0.4	26	0.4	2	43	69	100	< 0.01	6.65	1.6	510	1	< 2	< 0.5	1.45	19	148	11	0.9	4.44	3	< 1	7
331420	< 2	5.4	21	0.3	5	139	12	180	0.02	3.01	6.4	< 50	< 1	< 2	< 0.5	1.31	13	43	< 1	2.1	12.0	56	< 1	< 5
331421	< 2	0.6	14	0.4	< 1	18	8	52	< 0.01	3.54	1.3	360	1	< 2	< 0.5	2.22	5	22	< 1	0.6	1.78	4	< 1	< 5
331422	< 2	0.4	8	0.3	2	20	8	39	< 0.01	3.76	< 0.5	1320	1	< 2	< 0.5	1.25	5	11	1	0.6	1.67	4	< 1	< 5
331423	< 2	0.4	17	< 0.3	3	16	10	54	< 0.01	4.21	< 0.5	610	1	< 2	< 0.5	1.96	6	15	< 1	0.6	2.24	3	< 1	< 5
331424	< 2	< 0.3	6	< 0.3	< 1	23	2	12	< 0.01	3.55	< 0.5	230	< 1	< 2	< 0.5	0.40	< 1	8	< 1	< 0.2	0.62	2	< 1	< 5
331425	< 2	1.0	12	< 0.3	< 1	33	3	34	< 0.01	3.41	< 0.5	1200	< 1	< 2	0.9	0.61	3	6	1	0.6	1.42	5	< 1	< 5
331426	< 2	9.7	17	0.5	4	57	7	229	< 0.01	2.37	< 0.5	810	< 1	< 2	< 0.5	1.15	9	17	3	1.7	14.3	48	< 1	< 5

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Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
331414	0.79	0.41	187	2.51	< 0.001	58	< 0.1	3.0	< 3	176	< 0.5	0.09	12.2	25.8	24	< 1	4	10.4	14	< 5	0.6	< 0.01	< 0.5	0.9
331415	5.75	0.18	184	2.21	0.027	164	0.2	2.4	< 3	154	< 0.5	0.12	41.1	6.6	14	< 1	5	43.7	77	24	4.6	< 0.01	< 0.5	0.9
331416	3.84	0.43	335	4.17	0.005	169	< 0.1	9.7	< 3	210	5.4	0.29	172	96.2	24	< 1	123	6.8	36	< 5	2.2	< 0.01	2.8	34.8
331417	4.85	0.12	96	2.16	0.010	141	0.1	2.0	< 3	188	< 0.5	0.05	8.3	48.3	15	< 1	2	5.8	5	< 5	< 0.1	< 0.01	< 0.5	0.4
331418	2.80	1.40	665	2.75	0.031	197	0.3	12.7	< 3	282	< 0.5	0.37	11.1	78.0	119	< 1	10	32.0	50	9	2.4	0.04	0.5	1.4
331419	2.93	1.55	858	2.78	0.038	177	< 0.1	13.2	< 3	271	< 0.5	0.39	10.4	51.8	124	< 1	10	32.0	53	16	2.8	< 0.01	< 0.5	1.3
331420	4.62	0.33	1440	1.29	0.176	82	< 0.1	8.3	< 3	192	< 0.5	0.76	683	49.9	273	< 1	48	1060	1440	365	61.6	< 0.01	< 0.5	6.2
331421	1.53	0.31	268	3.00	0.017	59	< 0.1	2.8	< 3	299	< 0.5	0.22	17.9	2.8	30	< 1	3	32.3	56	14	2.2	< 0.01	< 0.5	0.5
331422	5.18	0.25	239	2.58	0.056	174	< 0.1	2.8	< 3	318	< 0.5	0.20	31.1	2.8	25	< 1	6	22.9	48	15	3.0	< 0.01	< 0.5	0.8
331423	2.47	0.36	403	2.93	0.039	62	< 0.1	5.8	< 3	335	< 0.5	0.28	24.5	1.0	43	< 1	11	13.1	25	6	2.5	< 0.01	< 0.5	1.0
331424	5.34	0.03	45	2.16	< 0.001	180	< 0.1	0.4	< 3	94	< 0.5	0.04	18.5	< 0.5	3	< 1	2	3.3	7	< 5	0.5	< 0.01	< 0.5	0.5
331425	5.60	0.12	131	2.24	0.030	146	< 0.1	0.9	< 3	349	< 0.5	0.11	47.5	2.5	22	< 1	2	15.8	61	10	2.0	< 0.01	< 0.5	0.6
331426	3.33	0.18	1610	1.66	0.151	78	< 0.1	6.8	< 3	218	< 0.5	0.83	345	23.7	314	< 1	26	316	552	96	17.4	< 0.01	< 0.5	4.6

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
331414	0.10	23.9	22.3	1.0202
331415	0.15	22.0	8.0	1.0176
331416	7.99	23.4	106	1.0424
331417	< 0.05	22.6	46.0	1.0495
331418	0.17	20.2	75.5	1.0229
331419	0.12	20.4	49.0	1.0183
331420	0.95	23.9	50.9	1.0180
331421	0.05	21.9	2.0	1.0789
331422	0.13	22.1	1.9	1.0306
331423	0.19	26.3	1.3	1.0403
331424	0.08	22.9	1.3	1.0515
331425	0.08	22.3	2.1	1.0450
331426	0.83	25.5	22.5	1.0417

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Quality Control

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01
Analysis Method	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA
GXR-1 Meas		30.2		1080	3.0	22	797	42		760		0.25	1.36											
GXR-1 Cert		31.0		1110	3.30	18.0	730	41.0		760		0.257	3.52											
DH-1a Meas																								
DH-1a Cert																								
DNC-1 Meas		< 0.3		90		3	10	244		60		0.05	6.75											
DNC-1 Cert		0.0270		95.0		0.700	6.30	247		66.0		0.0390	9.69											
GXR-4 Meas		3.2		5840	0.4	310	49	40		71		1.63	4.79											
GXR-4 Cert		4.00		6520	0.860	310	52.0	42.0		73.0		1.77	7.20											
GXR-2 Meas		16.5		74	4.4	2	705	19		531		0.02	5.22											
GXR-2 Cert		17.0		76.0	4.10	2.10	690	21.0		530		0.0313	16.5											
SDC-1 Meas		< 0.3		29	< 0.3	< 1	20	35		100		0.05	2.96											
SDC-1 Cert		0.0410		30.0	0.0800	0.250	25.0	38.0		103		0.0650	8.34											
SCO-1 Meas		< 0.3		27	< 0.3	3	31	28		102		0.06	5.84											
SCO-1 Cert		0.134		28.7	0.140	1.37	31.0	27.0		103		0.0630	7.24											
GXR-6 Meas		0.3		62	0.4	2	98	25		123		0.01	6.04											
GXR-6 Cert		1.30		66.0	1.00	2.40	101	27.0		118		0.0160	17.7											
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas				2220				2170																
OREAS 13P Cert				2500				2280																
BL-4a Meas																								
BL-4a Cert																								
DMMAS-103 Meas	559										170			3080	560									
DMMAS-103 Cert	539										168			2950	545						72	133	0.7	6.44
DMMAS-103 Meas	540										180			2950	560						71.0	131	0.700	6.54
DMMAS-103 Cert	539										168			2950	545						74	129	0.8	6.48
331426 Split	< 2	9.7	< 5	20	0.4	5	62	8	< 20	235	170	< 0.01	2.21	< 0.5	590	< 1	< 2	< 0.5	1.16	11	14	3	1.9	13.9
331428 Orig		10.0		17	0.3	4	54	7		227		< 0.01	2.41			< 1	< 2		1.15					
331426 Dup		9.4		17	0.6	5	60	7		231		< 0.01	2.33			< 1	< 2		1.15					
Method Blank Method																								
Blank																								

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Quality Control																								
Analyte Symbol	Hf	Hg	Ir	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppm	ppm	ppb	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	5	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Analysis Method	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
GXR-1 Meas				0.05	0.24	920		0.055					305					89			28			
GXR-1 Cert				0.0500	0.217	852		0.0650					275					80.0			32.0			
DH-1a Meas																								
DH-1a Cert																								
DNC-1 Meas				0.21	4.54	1080		0.028					137		0.29			154			14			
DNC-1 Cert				0.190	6.06	1150		0.0370					145		0.287			148			18.0			
GXR-4 Meas				4.39	1.61	147		0.081					224					86			12			
GXR-4 Cert				4.01	1.66	155		0.120					221					87.0			14.0			
GXR-2 Meas				1.05	0.52	967		0.038					151					56			8			
GXR-2 Cert				1.37	0.850	1010		0.105					160					52.0			17.0			
SDC-1 Meas				2.57	0.64	881		0.036					162		0.60			103			16			
SDC-1 Cert				2.72	1.02	883		0.0690					183		0.606			102			40.0			
SCO-1 Meas				2.58	1.62	408		0.060					173		0.38			144			20			
SCO-1 Cert				2.30	1.64	410		0.0900					174		0.380			131			26.0			
GXR-6 Meas				1.57	0.38	965		0.022					35					198			3			
GXR-6 Cert				1.87	0.609	1010		0.0350					35.0					185			14.0			
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas																								
OREAS 13P Cert																								
BL-4a Meas																								
BL-4a Cert																								
DMMAS-103 Meas							0.79			18.3	11.9								11		11.0	16		2.3
DMMAS-103 Cert							0.800			16.9	11.5								10.0		10.9	16.0		2.10
DMMAS-103 Meas							0.82			18.9	11.9								9		11.4	17		2.3
DMMAS-103 Cert							0.800			16.9	11.5								10.0		10.9	16.0		2.10
331426 Split	45	< 1	< 5	3.41	0.19	1670	1.58	0.155	88	< 0.1	6.5	< 3	224	< 0.5	0.86	332	21.2	325	< 1	26	303	525	88	16.4
331426 Split				3.35	0.18	1600		0.153					216		0.83			312		27				
331426 Orig				3.32	0.17	1610		0.149					220		0.84			316		26				
331426 Dup																								
Method Blank Method																								
Blank																								

Quality Control

Analyte Symbol	Sn	Tb	Yb	Lu	Mass	U	Mass
Unit Symbol	%	ppm	ppm	ppm	g	ppm	g
Detection Limit	0.01	0.5	0.2	0.05		0.1	
Analysis Method	INAA	INAA	INAA	INAA	INAA	DNC	DNC
GXR-1 Meas							
GXR-1 Cert							
DH-1a Meas						2630	
DH-1a Cert						2630	
DNC-1 Meas							
DNC-1 Cert							
GXR-4 Meas							
GXR-4 Cert							
GXR-2 Meas							
GXR-2 Cert							
SDC-1 Meas							
SDC-1 Cert							
SCO-1 Meas							
SCO-1 Cert							
GXR-6 Meas							
GXR-6 Cert							
SY-2 Meas						281	
SY-2 Cert						284	
OREAS 13P Meas							
OREAS 13P Cert							
BL-4a Meas						1240	
BL-4a Cert						1250	
DMMAS-103 Meas			2.4	0.43			
DMMAS-103 Cert			2.10	0.340			
DMMAS-103 Meas			2.2	0.38			
DMMAS-103 Cert			2.10	0.340			
331426 Split	< 0.01	< 0.5	4.6	0.79	28.8	23.1	1.0470
331426 Orig							
331426 Dup							
Method Blank Method						< 0.1	1.0000
Blank							

Quality Analysis ...



Innovative Technologies

Date Submitted: 05-Jul-07
Invoice No.: A07-2692
Invoice Date: 20-Jul-07
Your Reference: 183099-U GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

7 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT A07-2692

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Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

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Activation Laboratories Ltd.

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Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD- ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD- ICP	MULT INAA / TD- ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
331427	4	0.3	13	< 0.3	4	59	33	71	0.03	3.51	6.3	460	1	7	< 0.5	0.62	7	59	18	0.6	2.26	3	< 1	< 5
331428	< 2	0.5	5	< 0.3	< 1	32	7	120	< 0.01	2.51	< 0.5	< 50	2	< 2	< 0.5	1.46	3	24	30	0.7	1.80	5	< 1	< 5
331429	< 2	< 0.3	3	0.3	4	54	1	10	< 0.01	4.32	0.8	< 50	< 1	< 2	< 0.5	0.07	< 1	8	14	< 0.2	0.28	< 1	< 1	< 5
331430	< 2	6.8	10	< 0.3	3	71	13	150	< 0.01	3.74	< 0.5	930	< 1	< 2	< 0.5	0.88	10	9	< 1	1.6	4.38	57	< 1	< 5
331431	21	4.5	8	< 0.3	1	58	9	108	< 0.01	3.90	< 0.5	1000	< 1	< 2	< 0.5	0.94	9	11	< 1	1.6	3.32	38	< 1	< 5
331432	< 2	0.6	6	< 0.3	< 1	24	3	40	< 0.01	2.91	< 0.5	390	1	< 2	1.0	0.90	3	9	2	0.4	1.67	5	< 1	< 5
331433	< 2	0.5	12	< 0.3	< 1	30	3	39	< 0.01	2.94	< 0.5	470	1	< 2	< 0.5	0.91	4	6	< 1	0.5	1.67	5	< 1	< 5

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Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
331427	3.83	0.36	299	1.99	0.021	192	0.3	7.2	< 3	170	3.7	0.19	16.1	48.9	48	4	9	29.7	51	12	2.8	< 0.01	< 0.5	1.2
331428	0.82	0.16	1170	3.96	0.024	214	0.7	11.3	< 3	153	2.1	0.17	14.9	3.9	14	< 1	18	41.3	70	20	4.6	< 0.01	0.8	2.0
331429	8.40	0.02	70	1.48	0.003	602	0.3	0.9	< 3	50	3.6	0.03	6.1	15.9	< 2	< 1	6	1.4	< 3	< 5	0.4	< 0.01	< 0.5	0.9
331430	5.43	1.23	374	1.06	0.124	220	< 0.1	10.0	< 3	158	< 0.5	0.67	290	6.9	60	< 1	38	450	1000	300	52.0	< 0.01	< 0.5	4.5
331431	5.69	0.83	255	1.30	0.117	190	< 0.1	7.3	< 3	183	< 0.5	0.52	210	5.8	42	< 1	26	340	760	220	35.0	< 0.01	2.4	2.9
331432	3.22	0.10	275	2.16	0.005	131	< 0.1	3.3	< 3	87	< 0.5	0.15	21.1	3.5	17	< 1	6	26.0	46	11	2.7	< 0.01	< 0.5	0.8
331433	3.41	0.09	272	2.28	0.008	136	< 0.1	3.1	< 3	94	< 0.5	0.15	23.3	6.4	15	< 1	5	30.7	58	15	2.8	< 0.01	< 0.5	0.7

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
331427	0.22	24.3	49.3	1.066
331428	0.38	21.8	3.8	1.067
331429	0.10	24.9	16.1	1.086
331430	0.65	22.0	8.9	1.064
331431	0.56	22.3	6.5	1.057
331432	0.14	21.9	3.1	1.043
331433	0.10	21.1	6.9	1.068

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Quality Control

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01
Analysis Method	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA
GXR-1 Meas		30.2		1060	3.0	22	797	42		760		0.25	1.36			< 1	1390							
GXR-1 Cert		31.0		1110	3.30	18.0	730	41.0		760		0.257	3.52			1.22	1380							
DNC-1 Meas		< 0.3		90		3	10	244		80		0.05	6.75			< 1	3							
DNC-1 Cert		0.0270		96.0		0.700	6.30	247		66.0		0.0390	9.69			1.00	0.0200							
GXR-4 Meas		3.2		5840	0.4	310	49	40		71		1.63	4.79			1.00	0.0200							
GXR-4 Cert		4.00		6520	0.660	310	52.0	42.0		73.0		1.77	7.20			1	18							
GXR-2 Meas		16.5		74	4.4	2	705	19		531		0.02	5.22			1.90	19.0							
GXR-2 Cert		17.0		76.0	4.10	2.10	690	21.0		530		0.0313	16.5			1.70	0.690							
SDC-1 Meas		< 0.3		29	< 0.3	< 1	20	35		100		0.05	2.96			2	< 2							
SDC-1 Cert		0.0410		30.0	0.0800	0.250	25.0	38.0		103		0.0650	8.34			3.00	2.60							
SCO-1 Meas		< 0.3		27	< 0.3	3	31	28		102		0.06	5.84			1	< 2							
SCO-1 Cert		0.134		28.7	0.140	1.37	31.0	27.0		103		0.0630	7.24			1.84	0.370							
GXR-6 Meas		0.3		62	0.4	2	98	25		123		0.01	6.04			< 1	< 2							
GXR-6 Cert		1.30		66.0	1.00	2.40	101	27.0		118		0.0160	17.7			1.40	0.290							
SY-2 Meas																								
SY-2 Cert																								
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas				2160				2140																
OREAS 13P Cert				2500				2260																
DMMAS-103 Meas	586										220			3080	500					71	132		0.7	6.59
DMMAS-103 Cert	539										168			2950	545					71.0	131		0.700	6.54
331433 Split	< 2	0.6	< 5	14	< 0.3	< 1	29	3	< 20	40	< 50	< 0.01	3.32	< 0.5	410	1	< 2	< 0.5	0.88	3	13	< 1	0.5	1.61
Method Blank Method																								
Blank																								

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Quality Control

Analyte Symbol	Hf	Hg	Ir	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppm	ppm	ppb	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	5	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Analysis Method	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
GXR-1 Meas				0.05	0.24	920		0.055					305											
GXR-1 Cert				0.0500	0.217	852		0.0650					275					89						28
DNC-1 Meas				0.21	4.54	1080		0.026					137		0.29			80.0						32.0
DNC-1 Cert				0.190	6.06	1150		0.0370					145		0.287			154						14
GXR-4 Meas				4.39	1.61	147		0.081					224					148						18.0
GXR-4 Cert				4.01	1.66	155		0.120					221					86						12
GXR-2 Meas				1.05	0.52	967		0.038					151					87.0						14.0
GXR-2 Cert				1.37	0.850	1010		0.105					160					56						8
SDC-1 Meas				2.57	0.64	881		0.036					182		0.60			52.0						17.0
SDC-1 Cert				2.72	1.02	883		0.0690					183		0.606			103						16
SCO-1 Meas				2.58	1.62	408		0.060					173		0.38			102						40.0
SCO-1 Cert				2.30	1.64	410		0.0900					174		0.380			144						20
GXR-6 Meas				1.57	0.38	965		0.022					35					131						25.0
GXR-6 Cert				1.87	0.609	1010		0.0350					35.0					198						3
SY-2 Meas																		186						14.0
SY-2 Cert																								
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas																								
OREAS 13P Cert																								
DMMAS-103 Meas							0.79			16.6	12.3								10		11.0	17		2.2
DMMAS-103 Cert							0.800			16.9	11.5								10.0		10.9	16.0		2.10
331433 Split	4	< 1	< 5	3.55	0.13	274	2.28	0.011	124	< 0.1	2.9	< 3	96	< 0.5	0.15	24.5	6.6	15	< 1	6	34.1	63	14	2.9
Method Blank Method																								
Blank																								

Quality Control

Analyte Symbol	Sn	Tb	Yb	Lu	Mass	U	Mass
Unit Symbol	%	ppm	ppm	ppm	g	ppm	g
Detection Limit	0.01	0.5	0.2	0.05		0.1	
Analysis Method	INAA	iNAA	INAA	INAA	INAA	DNC	DNC

GXR-1 Meas							
GXR-1 Cert							
DNC-1 Meas							
DNC-1 Cert							
GXR-4 Meas							
GXR-4 Cert							
GXR-2 Meas							
GXR-2 Cert							
SDC-1 Meas							
SDC-1 Cert							
SCO-1 Meas							
SCO-1 Cert							
GXR-8 Meas							
GXR-6 Cert							
SY-2 Meas						284	
SY-2 Cert						284	
SY-2 Meas						287	
SY-2 Cert						284	
OREAS 13P Meas							
OREAS 13P Cert							
DMMAS-103 Meas			2.2	0.37			
DMMAS-103 Cert			2.10	0.340			
331433 Split	< 0.01	< 0.5	0.7	0.09	21.2	7.4	1.056
Method Blank Method						< 0.1	1.000
Blank							

Quality Analysis ...



Innovative Technologies

Date Submitted: 12-Jul-07
Invoice No.: A07-2834
Invoice Date: 03-Aug-07
Your Reference: 180399 GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

21 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT **A07-2834**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis

Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

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Activation Laboratories Ltd.

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Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Br	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD- ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD- ICP	MULT INAA / TD- ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
331435	< 2	1.1	17	0.5	1	1980	4	78	< 0.01	4.60	< 0.5	< 50	4	< 2	< 0.5	2.22	6	47	< 1	4.0	2.91	5	< 1	61
331436	< 2	7.9	28	< 0.3	1	501	80	494	0.03	3.85	8.2	650	1	< 2	< 0.5	0.81	39	58	29	< 0.2	14.7	43	< 1	< 5
331437	< 2	3.0	12	0.6	4	479	53	340	0.03	9.80	< 0.5	< 50	3	< 2	< 0.5	0.95	27	6	19	< 0.2	9.18	26	< 1	< 5
331438	< 2	1.2	22	< 0.3	1	58	17	84	0.01	4.04	1.7	< 50	1	< 2	< 0.5	1.12	6	13	3	< 0.2	2.57	5	< 1	< 5
331439	< 2	< 0.3	12	0.4	1	115	11	70	< 0.01	5.57	< 0.5	< 50	3	< 2	< 0.5	2.66	9	18	8	< 0.2	1.85	< 1	< 1	< 5
331440	< 2	0.4	121	0.4	< 1	6	61	94	0.05	5.63	< 0.5	< 50	< 1	< 2	< 0.5	7.28	28	225	2	0.8	5.63	2	< 1	< 5
331441	< 2	0.5	12	< 0.3	< 1	126	4	54	< 0.01	3.96	< 0.5	< 50	2	< 2	< 0.5	2.19	< 1	11	< 1	< 0.2	1.42	5	< 1	< 5
331442	< 2	1.0	17	< 0.3	23	51	2	28	< 0.01	2.83	2.2	430	1	2	9.8	0.71	3	< 2	2	0.5	1.54	4	< 1	< 5
331443	7	0.7	10	< 0.3	< 1	49	1	36	< 0.01	2.53	< 0.5	280	< 1	< 2	< 0.5	1.06	2	< 2	< 1	< 0.2	0.94	3	< 1	< 5
331444	< 2	< 0.3	32	0.3	3	127	21	302	0.02	4.24	< 0.5	1300	2	< 2	< 0.5	1.14	19	116	9	1.4	8.90	< 1	< 1	< 5
331445	< 2	0.7	19	< 0.3	1	121	5	55	< 0.01	3.69	3.7	< 50	2	< 2	13.6	1.15	3	< 2	2	< 0.2	2.18	5	< 1	< 5
331446	< 2	0.4	47	0.5	< 1	40	6	59	0.08	4.13	< 0.5	630	1	< 2	5.2	1.22	6	7	2	0.5	2.04	3	< 1	< 5
331447	< 2	0.7	18	< 0.3	< 1	66	4	37	0.01	3.72	< 0.5	340	2	< 2	20.2	1.29	3	9	< 1	< 0.2	1.26	4	< 1	< 5
331448	< 2	0.6	8	< 0.3	< 1	13	5	23	< 0.01	3.51	2.3	430	1	< 2	28.9	0.66	4	10	3	0.4	1.72	4	< 1	< 5
331449	< 2	< 0.3	3	0.4	< 1	62	4	12	< 0.01	5.36	1.1	810	< 1	< 2	6.9	0.20	< 1	12	2	0.4	0.37	< 1	< 1	< 5
331450	< 2	1.0	7	0.3	6	42	4	15	< 0.01	4.49	< 0.5	650	< 1	< 2	17.8	0.32	3	12	< 1	0.5	0.67	4	< 1	< 5
252910	< 2	< 0.3	47	< 0.3	< 1	213	11	78	< 0.01	3.86	5.7	< 50	3	< 2	< 0.5	2.62	6	18	6	< 0.2	1.88	< 1	< 1	< 5
252911	< 2	< 0.3	28	0.3	3	35	46	337	0.02	4.13	3.0	1080	< 1	< 2	< 0.5	1.31	20	145	9	0.4	8.95	< 1	< 1	< 5
252912	< 2	2.3	1530	1.6	< 1	12	14	82	0.51	3.58	4.0	< 50	2	< 2	< 0.5	0.95	36	9	12	0.9	6.98	2	< 1	< 5
252913	< 2	0.4	69	0.3	2	11	62	110	0.02	4.41	2.4	< 50	5	17	< 0.5	0.36	23	142	8	0.4	3.05	3	< 1	< 5
331434	< 2	< 0.3	18	< 0.3	< 1	543	6	75	0.02	4.52	< 0.5	< 50	2	< 2	11.3	1.48	5	< 2	< 1	0.7	3.05	6	< 1	< 5

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Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	iNAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
331435	1.48	0.27	1490	1.94	0.025	< 15	< 0.1	6.4	< 3	119	55.4	0.64	1360	2550	39	< 1	610	546	947	< 5	< 0.1	< 0.01	8.9	50.9
331436	5.96	2.57	2230	0.05	0.246	844	0.7	45.3	< 3	12	5.3	1.91	600	411	260	< 1	114	219	311	62	20.1	< 0.01	6.2	12.0
331437	5.06	2.63	1490	1.14	0.053	446	< 0.1	27.5	< 3	49	< 0.5	1.35	524	404	211	< 1	108	451	576	119	29.8	< 0.01	4.5	4.8
331438	2.42	0.56	362	1.83	0.026	175	< 0.1	8.8	< 3	165	< 0.5	0.33	154	17.5	32	< 1	18	193	282	74	16.1	< 0.01	2.4	1.5
331439	1.43	0.29	318	3.99	0.036	157	< 0.1	6.9	< 3	282	< 0.5	0.24	364	28.1	23	< 1	40	518	683	170	38.5	< 0.01	4.6	< 0.2
331440	0.51	2.88	1260	1.41	0.019	46	< 0.1	30.6	< 3	41	< 0.5	0.70	3.8	2.7	336	< 1	20	5.8	13	9	1.8	< 0.01	< 0.5	1.9
331441	1.55	0.29	242	1.83	0.342	79	< 0.1	4.4	< 3	163	< 0.5	0.18	536	22.9	16	< 1	102	660	893	221	55.0	< 0.01	6.5	4.8
331442	3.18	0.03	164	2.76	0.014	109	< 0.1	1.9	< 3	52	< 0.5	0.10	196	20.4	14	< 1	6	80.8	133	36	7.5	< 0.01	< 0.5	1.7
331443	2.30	0.04	237	1.85	0.135	80	< 0.1	2.0	< 3	50	< 0.5	0.08	61.7	23.0	7	< 1	25	13.5	25	11	3.7	< 0.01	1.4	2.4
331444	4.30	2.03	1200	1.08	0.199	382	< 0.1	27.3	< 3	180	< 0.5	1.10	635	25.0	92	< 1	91	865	1510	463	97.3	< 0.01	6.6	4.6
331445	4.45	0.13	378	2.74	0.029	145	< 0.1	6.2	< 3	126	< 0.5	0.16	308	112	34	< 1	28	215	285	54	12.2	< 0.01	2.0	4.5
331446	4.59	0.39	603	2.04	0.032	180	< 0.1	15.2	< 3	125	1.9	0.14	23.2	9.3	29	< 1	49	41.6	66	21	6.3	< 0.01	1.4	4.9
331447	2.84	0.12	233	2.81	0.018	149	< 0.1	3.7	< 3	120	< 0.5	0.12	108	72.7	18	< 1	12	41.9	88	13	2.5	< 0.01	< 0.5	2.0
331448	3.45	0.23	233	2.45	0.019	119	< 0.1	4.0	< 3	92	1.7	0.18	30.4	6.7	23	< 1	15	10.8	41	7	1.8	< 0.01	< 0.5	2.3
331449	6.63	0.07	26	1.49	0.050	259	< 0.1	1.4	< 3	262	< 0.5	0.04	3.6	12.6	9	< 1	8	5.2	9	< 5	0.7	< 0.01	< 0.5	1.3
331450	6.26	0.12	121	1.96	0.014	265	< 0.1	2.7	< 3	74	< 0.5	0.05	25.3	10.2	10	< 1	7	45.5	77	21	4.6	< 0.01	< 0.5	0.8
252910	1.60	0.23	307	3.13	0.160	93	< 0.1	5.9	< 3	566	< 0.5	0.23	919	29.2	25	< 1	76	1140	1910	626	125	< 0.01	9.4	5.3
252911	6.42	2.48	1330	0.86	0.280	550	< 0.1	26.4	< 3	248	< 0.5	1.07	58.7	8.7	77	< 1	62	98.1	169	56	18.9	< 0.01	3.8	4.1
252912	0.33	0.25	661	5.45	0.078	84	0.6	1.4	< 3	421	2.0	0.46	6.1	3.6	90	< 1	4	30.6	58	27	4.0	< 0.01	< 0.5	0.8
252913	0.81	0.60	216	0.89	0.008	104	0.3	6.6	< 3	35	3.9	0.32	7.1	4.1	144	< 1	16	14.5	26	9	2.2	< 0.01	0.6	4.2
331434	2.56	0.36	813	2.43	0.030	132	< 0.1	8.6	< 3	129	17.1	0.58	431	769	47	< 1	193	205	290	< 5	< 0.1	< 0.01	5.5	17.7

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
331435	7.67	21.2	2680	1.076
331438	1.53	17.4	404	1.022
331437	< 0.05	19.8	399	1.021
331436	< 0.05	22.8	15.9	1.043
331439	0.34	20.7	28.2	1.011
331440	0.14	25.4	2.8	1.075
331441	0.49	20.1	25.5	1.071
331442	0.14	20.1	20.2	1.069
331443	0.37	25.1	20.8	1.078
331444	0.38	22.2	29.1	1.071
331445	0.47	20.3	110	1.056
331446	0.73	29.2	8.7	1.028
331447	0.27	24.6	67.2	1.086
331448	0.37	20.2	5.4	1.063
331449	0.16	28.9	11.7	1.083
331450	0.13	17.9	7.4	1.084
252910	< 0.05	19.9	31.2	1.058
252911	0.43	20.6	5.8	1.082
252912	0.05	20.8	2.0	1.074
252913	0.58	24.9	2.8	1.059
331434	2.73	21.0	776	1.073

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Quality Control

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01
Analysis Method	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA
GXR-1 Meas		31.2		1170	3.1	16	816	42		764		0.27	1.34											
GXR-1 Cert		31.0		1110	3.30	18.0	730	41.0		760		0.257	3.52											
DH-1a Meas																								
DH-1a Cert																								
DNC-1 Meas		0.3		97		1	7	247		62		0.06	7.57											
DNC-1 Cert		0.0270		96.0		0.700	6.30	247		66.0		0.0390	9.69											
GXR-4 Meas		3.6		6120	0.7	309	61	39		79		1.86	7.61											
GXR-4 Cert		4.00		6520	0.860	310	52.0	42.0		73.0		1.77	7.20											
GXR-2 Meas		18.5		77	4.8	2	696	19		518		0.03	5.46											
GXR-2 Cert		17.0		76.0	4.10	2.10	690	21.0		530		0.0313	16.5											
SDC-1 Meas		< 0.3		34	< 0.3	1	29	38		108		0.07	4.48											
SDC-1 Cert		0.0410		30.0	0.0800	0.250	25.0	38.0		103		0.0650	8.34											
SCO-1 Meas		0.5		30	0.4	2	32	29		103		0.08	7.22											
SCO-1 Cert		0.134		28.7	0.140	1.37	31.0	27.0		103		0.0630	7.24											
GXR-6 Meas		0.7		83	0.4	2	96	24		121		0.02	7.45											
GXR-6 Cert		1.30		66.0	1.00	2.40	101	27.0		118		0.0160	17.7											
SY-2 Meas																								
SY-2 Cert																								
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas				2510				2270																
OREAS 13P Cert				2500				2260																
DMMAS-103 Meas	542									100				2930	520					72	140		0.6	6.52
DMMAS-103 Cert	539									168				2950	545					71.0	131		0.700	6.54
DMMAS-103 Meas	581									200				2940	480					74	128		0.7	6.54
DMMAS-103 Cert	539									168				2950	545					71.0	131		0.700	6.54
331441 Orig		0.6		12	< 0.3	< 1	126	4		54		< 0.01	4.04											
331441 Dup		0.3		12	< 0.3	< 1	126	4		54		< 0.01	3.87											
331434 Split	< 2	0.5	< 5	15	0.3	1	506	6	< 20	74	< 50	0.01	3.05	< 0.5	510	2	< 2	12.0	1.36	6	< 2	3	< 0.2	3.13
Method Blank Method																								
Blank																								

Activation Laboratories Ltd. Report: A07-2834

Quality Control

Analyte Symbol	Hf	Hg	Ir	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	
Unit Symbol	ppm	ppm	ppb	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit	1	1	5	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	
Analysis Method	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	
GXR-1 Meas				0.05	0.25	826		0.027					292					91						28	
GXR-1 Cert				0.0500	0.217	852		0.0650					275					80.0						32.0	
DH-1a Meas																									
DH-1a Cert																									
DNC-1 Meas				0.20	5.12	1040		0.021					134		0.30			158			15				
DNC-1 Cert				0.190	6.06	1150		0.0370					145		0.287			148			18.0				
GXR-4 Meas				4.31	2.02	177		0.087					250					88			19				
GXR-4 Cert				4.01	1.66	155		0.120					221					87.0			14.0				
GXR-2 Meas				1.14	0.63	802		0.042					134					54			7				
GXR-2 Cert				1.37	0.850	1010		0.105					160					52.0			17.0				
SDC-1 Meas				2.64	0.80	891		0.037					174		0.63			109			20				
SDC-1 Cert				2.72	1.02	883		0.0690					183		0.606			102			40.0				
SCO-1 Meas				2.47	1.77	383		0.062					186		0.37			142			23				
SCO-1 Cert				2.30	1.64	410		0.0900					174		0.380			131			26.0				
GXR-6 Meas				1.57	0.44	878		0.020					40					183			5				
GXR-6 Cert				1.87	0.609	1010		0.0350					35.0					186			14.0				
SY-2 Meas																									
SY-2 Cert																									
SY-2 Meas																									
SY-2 Cert																									
OREAS 13P Meas																									
OREAS 13P Cert																									
DMMAS-103 Meas							0.77			8.7	12.5								12		11.5	18		2.3	
DMMAS-103 Cert							0.800			16.9	11.5								10.0		10.9	16.0		2.10	
DMMAS-103 Meas							0.80			8.6	12.6								16		11.6	16		2.2	
DMMAS-103 Cert							0.800			16.9	11.5								10.0		10.9	16.0		2.10	
331441 Orig				1.56	0.30	243		0.346					164		0.18			17			103				
331441 Dup				1.53	0.27	241		0.339					162		0.18			16			100				
331434 Split	7	< 1	< 5	2.35	0.29	764	2.49	0.025	132	< 0.1	8.8	< 3	85	16.1	0.55	452	761	45	< 1	119	206	295	< 5	< 0.1	
Method Blank Method																									
Blank																									

Quality Control

Analyte Symbol	Sn	Tb	Yb	Lu	Mass	U	Mass
Unit Symbol	%	ppm	ppm	ppm	g	ppm	g
Detection Limit	0.01	0.5	0.2	0.05		0.1	
Analysis Method	INAA	INAA	INAA	INAA	INAA	DNC	DNC
GXR-1 Meas							
GXR-1 Cert							
DH-1a Meas						2630	
DH-1a Cert						2630	
DNC-1 Meas							
DNC-1 Cert							
GXR-4 Meas							
GXR-4 Cert							
GXR-2 Meas							
GXR-2 Cert							
SDC-1 Meas							
SDC-1 Cert							
SCO-1 Meas							
SCO-1 Cert							
GXR-6 Meas							
GXR-6 Cert							
SY-2 Meas						286	
SY-2 Cert						284	
SY-2 Meas						282	
SY-2 Cert						284	
OREAS 13P Meas							
OREAS 13P Cert							
DMMAS-103 Meas			2.3	0.19			
DMMAS-103 Cert			2.10	0.340			
DMMAS-103 Meas			2.0	0.19			
DMMAS-103 Cert			2.10	0.340			
331441 Orig							
331441 Dup							
331434 Split	< 0.01	4.9	18.1	3.01	18.5	781	1.077
Method Blank Method						< 0.1	1.000
Blank							

Quality Analysis ...



Innovative Technologies

Date Submitted: 20-Jul-07
Invoice No.: A07-3005
Invoice Date: 14-Aug-07
Your Reference: 180399-U General

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

9 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT A07-3005

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
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E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Activation Laboratories Ltd. Report: A07-3005

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD- ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD- ICP	MULT INAA / TD- ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
252914	< 2	0.6	3	0.5	2	59	3	100	0.01	5.42	18.9	860	2	< 2	< 0.5	0.01	< 1	< 2	17	0.9	1.43	3	< 1	< 5
252915	< 2	0.6	8	0.5	1	34	1	33	< 0.01	4.61	1.7	410	1	< 2	< 0.5	0.53	3	12	3	< 0.2	0.92	3	< 1	< 5
252916	< 2	0.9	3	0.5	1	158	4	162	< 0.01	5.05	1.5	520	1	< 2	< 0.5	1.73	4	< 2	6	< 0.2	2.43	4	< 1	< 5
252917	< 2	< 0.3	6	< 0.3	< 1	58	< 1	11	< 0.01	3.23	< 0.5	< 50	1	< 2	< 0.5	2.66	< 1	10	< 1	< 0.2	0.22	< 1	< 1	< 5
252918	< 2	2.8	7	0.4	< 1	258	4	125	< 0.01	3.91	8.8	180	2	< 2	< 0.5	2.03	< 1	37	6	< 0.2	1.69	15	< 1	< 5
252919	< 2	2.5	5	0.4	< 1	352	3	110	< 0.01	3.92	7.0	< 50	< 1	< 2	< 0.5	2.23	6	< 2	6	1.5	1.95	18	< 1	8
252920	< 2	1.8	10	0.5	3	78	6	133	< 0.01	3.69	7.4	740	2	8	< 0.5	0.50	4	24	9	0.7	2.16	9	< 1	< 5
252921	7	< 0.3	8	< 0.3	< 1	30	19	115	< 0.01	4.11	4.9	570	2	19	< 0.5	0.85	3	83	9	0.7	2.53	1	< 1	< 5
252922	< 2	0.8	14	0.4	2	26	51	177	0.02	5.70	3.9	470	2	< 2	< 0.5	1.43	11	172	10	< 0.2	5.70	4	< 1	< 5

Activation Laboratories Ltd. Report: A07-3005

Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
252914	6.74	0.21	196	2.08	0.196	364	0.4	3.6	< 3	83	< 0.5	0.15	15.6	16.3	11	< 1	27	19.8	38	< 5	4.7	< 0.01	1.3	3.4
252915	5.10	0.09	168	2.40	0.058	189	< 0.1	2.6	< 3	76	2.2	0.09	16.6	5.5	6	< 1	9	24.3	42	< 5	2.8	< 0.01	< 0.5	0.9
252916	4.11	0.41	328	2.13	0.197	254	< 0.1	5.0	< 3	94	< 0.5	0.26	30.5	72.6	17	< 1	38	41.1	67	11	6.1	< 0.01	1.7	3.3
252917	1.16	0.02	165	5.09	< 0.001	< 15	< 0.1	< 0.1	< 3	533	< 0.5	0.01	4.8	14.2	2	< 1	< 1	< 0.5	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.2
252918	2.38	0.23	284	2.24	0.165	< 15	< 0.1	3.9	< 3	84	< 0.5	0.20	189	440	14	< 1	66	404	467	77	28.6	< 0.01	5.1	3.5
252919	5.83	0.22	371	2.06	0.386	273	< 0.1	4.5	< 3	100	< 0.5	0.08	86.4	531	14	< 1	71	145	206	41	15.3	< 0.01	4.8	5.6
252920	5.18	0.32	276	1.60	0.022	298	< 0.1	5.4	< 3	77	< 0.5	0.18	52.4	30.4	15	< 1	16	60.5	129	29	8.5	< 0.01	< 0.5	1.5
252921	3.91	0.47	341	2.05	0.028	249	< 0.1	6.6	< 3	79	4.0	0.19	8.3	12.2	39	< 1	8	14.8	23	< 5	1.6	< 0.01	< 0.5	1.3
252922	3.73	1.52	708	2.37	0.029	392	< 0.1	14.3	< 3	86	4.3	0.55	45.2	9.8	118	< 1	16	94.0	143	26	7.7	< 0.01	< 0.5	1.4

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
252914	0.52	18.3	18.9	1.024
252915	0.18	18.1	6.4	1.022
252916	0.54	19.9	78.1	1.029
252917	< 0.05	18.1	17.2	1.014
252918	0.46	18.5	479	1.027
252919	< 0.05	17.3	567	1.027
252920	< 0.05	17.9	32.8	1.021
252921	0.31	18.1	12.1	1.023
252922	< 0.05	18.3	11.1	1.019

Activation Laboratories Ltd. Report: A07-3005

Quality Control

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01
Analysis Method	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA
DH-1a Meas																								
DH-1a Cert																								
SY-2 Meas																								
SY-2 Cert																								
BL-4a Meas																								
BL-4a Cert																								
DMMAS-103 Meas	552										130			2960	720					72	123		< 0.2	6.32
DMMAS-103 Cert	539										168			2950	545					71.0	131		0.700	6.54
252922 Split	< 2	0.7	< 5	14	0.4	2	31	53	< 20	190	190	0.02	5.97	3.6	480	2	< 2	< 0.5	1.51	12	165	9	< 0.2	5.93
Method Blank Method																								
Blank																								

Activation Laboratories Ltd. Report: A07-3005

Quality Control

Analyte Symbol	Hf	Hg	Ir	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppm	ppm	ppb	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	5	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Analysis Method	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
DH-1a Meas																								
DH-1a Cert																								
SY-2 Meas																								
SY-2 Cert																								
BL-4a Meas																								
BL-4a Cert																								
DMMAS-103 Meas							0.77			19.7	12.1								12		11.5	13		2.0
DMMAS-103 Cert							0.800			16.9	11.5								10.0		10.9	16.0		2.10
252922 Split	4	< 1	< 5	3.84	1.55	744	2.44	0.031	426	0.3	14.9	< 3	93	4.6	0.53	47.5	9.8	116	< 1	19	94.7	139	28	8.1
Method Blank Method																								
Blank																								

Quality Control

Analyte Symbol	Sn	Tb	Yb	Lu	Mass	U	Mass
Unit Symbol	%	ppm	ppm	ppm	g	ppm	g
Detection Limit	0.01	0.5	0.2	0.05		0.1	
Analysis Method	INAA	INAA	INAA	INAA	INAA	DNC	DNC
DI-1a Meas						2620	
DI-1a Cert						2630	
SY-2 Meas						283	
SY-2 Cert						284	
BL-4a Meas						1270	
BL-4a Cert						1250	
DMMAS-103 Meas			2.2	0.36			
DMMAS-103 Cert			2.10	0.340			
252922 Split	< 0.01	< 0.5	1.4	0.16	18.5	11.0	1.023
Method Blank Method						< 0.1	1.000
Blank							

Quality Analysis ...



Innovative Technologies

Date Submitted: 01-Aug-07
Invoice No.: A07-3290 (i)
Invoice Date: 10-Sep-07
Your Reference: 180399 U GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

55 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT **A07-3290 (i)**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "E. Hoffman", written over a horizontal line.

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1 905 648 9611 or
+1 888 228 5227 FAX +1 905 648 9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Activation Laboratories Ltd. Report: A07-3290 (i)

Analyte Symbol	Cu	Cd	Mo	Pb	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	U	Mass	Cu	Cd	Mo	Pb	S
Unit Symbol	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.3	1	3	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	0.1						
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	DNC	DNC	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
213251	37	0.4	5	208	0.02	5.54	2	< 2	0.77	3.99	0.28	227	0.050	102	0.17	15	48	192	1.068	--	--	--	--	--
213252	38	0.4	2	278	0.01	5.62	2	< 2	0.55	4.90	0.15	96	0.051	102	0.08	6	56	467	1.046	--	--	--	--	--
213253	13	0.4	2	495	< 0.01	5.67	1	< 2	2.20	0.91	0.10	85	0.054	91	0.04	3	62	490	1.031	--	--	--	--	--
213254	15	< 0.3	2	500	0.01	4.01	1	< 2	1.67	1.31	0.16	165	0.055	82	0.09	7	44	723	1.038	--	--	--	--	--
213255	12	0.4	4	713	< 0.01	5.66	< 1	< 2	0.88	2.71	0.24	135	0.056	93	0.11	9	67	849	1.063	--	--	--	--	--
213256	8	< 0.3	1	323	< 0.01	4.94	< 1	< 2	0.81	2.98	0.19	149	0.051	86	0.10	8	41	376	1.047	--	--	--	--	--
213257	18	0.7	5	106	< 0.01	3.94	1	< 2	1.09	1.79	0.70	2950	0.057	47	0.30	27	96	44.7	1.038	--	--	--	--	--
213258	13	0.5	3	83	< 0.01	4.83	1	< 2	1.22	1.97	0.52	1020	0.037	80	0.28	30	31	46.6	1.022	--	--	--	--	--
213259	29	0.6	18	585	0.03	5.73	2	< 2	1.43	2.36	0.08	2330	0.075	69	0.04	3	114	119	1.068	--	--	--	--	--
213260	30	0.6	36	1180	0.04	6.46	2	< 2	2.10	1.89	0.11	1010	0.093	83	0.06	3	189	210	1.049	--	--	--	--	--
213261	13	0.7	10	754	0.01	6.73	1	< 2	1.64	5.43	0.17	722	0.225	98	0.05	< 2	112	593	1.037	--	--	--	--	--
213262	11	0.7	11	826	0.01	6.34	2	< 2	1.94	5.51	0.15	887	0.262	107	0.05	3	260	878	1.053	--	--	--	--	--
213263	6	0.5	11	857	< 0.01	5.35	1	< 2	1.66	3.10	0.10	162	0.416	105	0.08	< 2	395	1230	1.027	--	--	--	--	--
213265	9	0.4	11	486	< 0.01	5.23	1	< 2	0.83	3.41	0.15	136	0.072	91	0.10	4	85	400	1.030	--	--	--	--	--
213266	11	0.3	16	556	< 0.01	4.85	1	< 2	1.05	3.36	0.18	206	0.095	85	0.16	9	99	548	1.059	--	--	--	--	--
213267	14	0.5	30	889	< 0.01	5.02	< 1	< 2	0.85	2.92	0.17	157	0.095	76	0.11	3	131	1320	1.060	--	--	--	--	--
213268	15	< 0.3	31	830	< 0.01	4.93	< 1	< 2	0.78	2.91	0.16	161	0.081	76	0.11	2	128	1190	1.045	--	--	--	--	--
213269	14	0.4	3	35	0.03	4.97	2	30	2.32	1.33	0.42	309	0.013	113	0.32	49	4	17.1	1.028	--	--	--	--	--
213270	27	0.3	4	57	0.03	6.46	2	< 2	2.02	4.35	0.83	365	0.022	229	0.38	58	12	13.9	1.046	--	--	--	--	--
213271	30	0.4	3	70	0.03	5.38	1	4	0.96	3.73	0.13	200	0.018	118	0.10	15	11	15.0	1.006	--	--	--	--	--
213272	31	0.6	4	65	0.04	8.32	1	< 2	1.19	4.76	0.24	234	0.028	129	0.11	14	20	15.6	1.052	--	--	--	--	--
213273	33	0.4	6	84	0.05	5.26	1	5	0.67	4.04	0.08	177	0.026	110	0.07	8	11	27.8	1.011	--	--	--	--	--
213274	31	0.9	3	12	0.20	7.58	2	< 2	4.41	2.09	1.61	1400	0.072	206	0.41	124	26	15.1	1.049	--	--	--	--	--
213275	20	0.4	2	44	0.01	4.30	3	3	1.31	2.26	0.16	305	0.014	42	0.21	7	17	23.4	1.039	--	--	--	--	--
213276	50	0.9	5	38	0.45	12.6	8	3	0.70	6.01	3.44	829	0.034	88	0.65	220	19	8.6	1.043	--	--	--	--	--
213277	59	0.8	5	28	0.26	7.50	2	< 2	2.14	3.08	2.01	776	0.035	135	0.58	182	14	8.3	1.059	--	--	--	--	--
213278	57	< 0.3	2	22	0.30	4.36	4	< 2	0.58	3.07	2.21	1060	0.008	60	0.63	198	8	10.2	1.040	--	--	--	--	--
252924	48	0.5	4	33	0.10	5.08	2	2	1.69	2.75	0.97	576	0.042	291	0.34	90	7	8.8	1.002	--	--	--	--	--
252925	5	0.4	< 1	42	< 0.01	5.05	2	< 2	0.40	4.42	0.17	199	0.018	71	0.12	6	15	3.8	1.024	--	--	--	--	--
252926	7	0.5	7	396	< 0.01	8.31	2	< 2	1.27	5.52	0.23	194	0.055	111	0.10	6	103	609	1.015	--	--	--	--	--
252927	9	0.5	9	501	< 0.01	8.06	2	< 2	1.30	5.23	0.24	213	0.086	107	0.13	6	160	935	1.018	--	--	--	--	--
252928	8	0.4	4	207	< 0.01	5.09	1	< 2	0.86	3.07	0.14	176	0.079	94	0.12	6	56	350	1.029	--	--	--	--	--
252929	7	0.5	8	282	< 0.01	5.24	1	< 2	0.90	3.52	0.17	198	0.053	84	0.13	6	71	806	1.072	--	--	--	--	--
252930	56	< 0.3	4	56	2.43	3.68	< 1	< 2	0.36	3.00	0.05	40	0.013	80	0.02	6	9	82.4	1.060	--	--	--	--	--
252931	31	0.3	6	78	1.18	5.12	2	< 2	0.51	3.59	0.17	197	0.034	129	0.06	19	21	118	1.041	--	--	--	--	--
252932	33	0.5	3	361	0.74	4.88	2	< 2	0.87	3.59	0.08	164	0.038	140	0.04	9	36	750	1.059	--	--	--	--	--
252933	21	0.5	4	379	0.02	5.35	5	< 2	2.55	1.51	1.60	2280	0.739	93	0.06	61	377	50.4	1.045	--	--	--	--	--
252934	37	0.4	4	287	0.10	5.35	4	< 2	2.82	1.67	2.29	2550	0.367	112	0.08	157	338	39.7	1.050	--	--	--	--	--
252935	22	0.7	5	627	0.04	4.55	6	< 2	1.49	1.78	2.71	4010	1.25	55	0.26	94	545	90.5	1.007	--	--	--	--	--
252936	23	0.6	3	308	0.03	5.32	4	< 2	2.23	1.29	1.79	2790	0.650	86	0.14	58	322	43.6	1.053	--	--	--	--	--
252937	33	< 0.3	6	541	0.06	3.68	6	< 2	1.46	2.33	2.69	2420	0.950	46	0.26	220	604	81.0	1.049	--	--	--	--	--
252938	126	1.7	5	16	10.9	3.00	1	4	4.67	0.06	1.48	1760	0.093	89	0.37	78	17	1.6	1.028	--	--	--	--	--
252939	12	0.4	31	18	1.62	2.49	< 1	< 2	1.72	0.45	0.02	38	0.027	79	0.01	< 2	8	2.2	1.019	--	--	--	--	--
252940	6	0.3	8	417	0.02	5.69	2	< 2	0.69	3.04	0.27	234	0.079	89	0.17	6	153	1620	1.043	--	--	--	--	--
252941	7	0.4	7	373	0.01	4.95	2	< 2	0.69	3.77	0.17	214	0.076	92	0.15	6	123	1190	1.032	--	--	--	--	--
252942	11	0.6	13	360	0.03	4.92	1	< 2	0.74	4.85	0.12	1260	0.042	88	0.08	4	102	289	1.001	--	--	--	--	--
252943	12	0.6	9	290	0.03	4.74	1	< 2	0.71	3.62	0.08	1570	0.032	86	0.04	2	96	240	1.049	--	--	--	--	--
252944	9	0.6	9	360	0.01	4.75	1	< 2	0.71	3.71	0.09	1470	0.060	80	0.05	2	94	272	1.051	--	--	--	--	--
252945	7	0.5	7	343	0.01	4.61	1	< 2	0.64	3.63	0.11	1660	0.061	77	0.06	3	111	269	1.063	--	--	--	--	--
252946	5	0.4	6	296	< 0.01	4.36	< 1	< 2	0.42	3.91	0.10	128	0.033	77	0.09	3	39	1040	1.033	--	--	--	--	--
252947	4	0.4	3	234	< 0.01	4.68	< 1	< 2	0.55	3.13	0.13	124	0.026	78	0.09	3	48	787	1.066	--	--	--	--	--
252948	4	0.3	1	108	< 0.01	4.28	1	< 2	0.65	3.04	0.09	97	0.017	61	0.06	< 2	36	832	1.034	--	--	--	--	--



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Analyte Symbol	Cu	Cd	Mo	Pb	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	U	Mass	Cu	Cd	Mo	Pb	S
Unit Symbol	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.3	1	3	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	0.1						
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	DNC	DNC	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
252949	10	0.4	6	333	< 0.01	4.85	< 1	< 2	0.56	2.88	0.14	169	0.052	74	0.10	3	69	236	1.077	--	--	--	--	--
252950	8	0.5	7	422	< 0.01	4.94	1	< 2	0.58	2.00	0.10	293	0.096	60	0.12	4	98	299	1.063	--	--	--	--	--

Activation Laboratories Ltd.

Report: A07-3290 (i)

Analyte Symbol	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y
Unit Symbol	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm
Detection Limit												
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
213251	--	--	--	--	--	--	--	--	--	--	--	--
213252	--	--	--	--	--	--	--	--	--	--	--	--
213253	--	--	--	--	--	--	--	--	--	--	--	--
213254	--	--	--	--	--	--	--	--	--	--	--	--
213255	--	--	--	--	--	--	--	--	--	--	--	--
213256	--	--	--	--	--	--	--	--	--	--	--	--
213257	--	--	--	--	--	--	--	--	--	--	--	--
213258	--	--	--	--	--	--	--	--	--	--	--	--
213259	--	--	--	--	--	--	--	--	--	--	--	--
213260	--	--	--	--	--	--	--	--	--	--	--	--
213261	--	--	--	--	--	--	--	--	--	--	--	--
213262	--	--	--	--	--	--	--	--	--	--	--	--
213263	--	--	--	--	--	--	--	--	--	--	--	--
213265	--	--	--	--	--	--	--	--	--	--	--	--
213266	--	--	--	--	--	--	--	--	--	--	--	--
213267	--	--	--	--	--	--	--	--	--	--	--	--
213268	--	--	--	--	--	--	--	--	--	--	--	--
213269	--	--	--	--	--	--	--	--	--	--	--	--
213270	--	--	--	--	--	--	--	--	--	--	--	--
213271	--	--	--	--	--	--	--	--	--	--	--	--
213272	--	--	--	--	--	--	--	--	--	--	--	--
213273	--	--	--	--	--	--	--	--	--	--	--	--
213274	--	--	--	--	--	--	--	--	--	--	--	--
213275	--	--	--	--	--	--	--	--	--	--	--	--
213276	--	--	--	--	--	--	--	--	--	--	--	--
213277	--	--	--	--	--	--	--	--	--	--	--	--
213278	--	--	--	--	--	--	--	--	--	--	--	--
252924	--	--	--	--	--	--	--	--	--	--	--	--
252925	--	--	--	--	--	--	--	--	--	--	--	--
252926	--	--	--	--	--	--	--	--	--	--	--	--
252927	--	--	--	--	--	--	--	--	--	--	--	--
252928	--	--	--	--	--	--	--	--	--	--	--	--
252929	--	--	--	--	--	--	--	--	--	--	--	--
252930	--	--	--	--	--	--	--	--	--	--	--	--
252931	--	--	--	--	--	--	--	--	--	--	--	--
252932	--	--	--	--	--	--	--	--	--	--	--	--
252933	--	--	--	--	--	--	--	--	--	--	--	--
252934	--	--	--	--	--	--	--	--	--	--	--	--
252935	--	--	--	--	--	--	--	--	--	--	--	--
252936	--	--	--	--	--	--	--	--	--	--	--	--
252937	--	--	--	--	--	--	--	--	--	--	--	--
252938	--	--	--	--	--	--	--	--	--	--	--	--
252939	--	--	--	--	--	--	--	--	--	--	--	--
252940	--	--	--	--	--	--	--	--	--	--	--	--
252941	--	--	--	--	--	--	--	--	--	--	--	--
252942	--	--	--	--	--	--	--	--	--	--	--	--
252943	--	--	--	--	--	--	--	--	--	--	--	--
252944	--	--	--	--	--	--	--	--	--	--	--	--
252945	--	--	--	--	--	--	--	--	--	--	--	--
252946	--	--	--	--	--	--	--	--	--	--	--	--
252947	--	--	--	--	--	--	--	--	--	--	--	--
252948	--	--	--	--	--	--	--	--	--	--	--	--

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Analyte Symbol	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y
Unit Symbol	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm
Detection Limit												
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
252949	--	--	--	--	--	--	--	--	--	--	--	--
252950	--	--	--	--	--	--	--	--	--	--	--	--

Activation Laboratories Ltd. Report: A07-3290 (i)

Quality Control

Analyte Symbol	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	U	Mass	Ag	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	ppm	g	ppm	ppm
Detection Limit	0.3	1	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	0.1		0.3	1
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	DNC	DNC	TD-ICP	TD-ICP
GXR-1 Meas	30.2	1110	3.4	21	727	37	883	0.25	1.60	< 1	1380	0.94	0.05	0.25	871	0.075	286		86	29			30.3	1190
GXR-1 Cert	31.0	1110	3.30	18.0	730	41.0	760	0.257	3.52	1.22	1380	0.960	0.0500	0.217	852	0.0650	275		80.0	32.0			31.0	1110
DH-1a Meas																								
DH-1a Cert																								
DNC-1 Meas	< 0.3	104		< 1	6	271	60	0.06	8.05	< 1	< 2	8.77	0.22	4.29	1190	0.039	147	0.34	164	17			0.4	96
DNC-1 Cert	0.0270	96.0		0.700	6.30	247	66.0	0.0390	9.69	1.00	0.0200	8.06	0.190	6.06	1150	0.0370	145	0.287	148	18.0			0.0270	96.0
GXR-2 Meas	16.1	78	4.8	2	628	19	496	0.02	4.98	1	< 2	0.70	0.91	0.48	869	0.062	121		54	5			17.8	90
GXR-2 Cert	17.0	78.0	4.10	2.10	690	21.0	530	0.0313	16.5	1.70	0.690	0.930	1.37	0.850	1010	0.105	160		52.0	17.0			17.0	78.0
SDC-1 Meas	< 0.3	40	0.5	< 1	28	41	117	0.06	6.61	3	2	1.42	3.24	1.01	1110	0.043	214	0.27	27	34			0.4	32
SDC-1 Cert	0.0410	30.0	0.0800	0.250	25.0	38.0	103	0.0650	8.34	3.00	2.60	1.00	2.72	1.02	883	0.0690	183	0.606	102	40.0			0.0410	30.0
SCO-1 Meas	0.6	31	0.4	2	34	29	104	0.07	5.59	2	< 2	2.24	2.23	1.65	438	0.096	175	0.40	149	20			0.5	30
SCO-1 Cert	0.134	28.7	0.140	1.37	31.0	27.0	103	0.0630	7.24	1.84	0.370	1.87	2.30	1.64	410	0.0900	174	0.380	131	26.0			0.134	28.7
GXR-6 Meas																							0.9	64
GXR-6 Cert																							1.30	66.0
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas		2260				2040																		
OREAS 13P Cert		2500				2260																		
GBW 07239 Meas	45			1080	24	18	94				< 2													
GBW 07239 Cert	48.6			1100	26.0	20.9	120				1.00													49
GBW 07239 Control Meas	45			1080	24	18	94				< 2													48.6
GBW 07239 Control Cert	48.6			1100	26.0	20.9	120				1.00													34.2
213263 Ong	0.7	6	0.4	12	877	2	42	< 0.01	4.97	1	< 2	1.63	3.92	0.09	160	0.408	105	0.07	< 2	365				
213263 Dup	0.8	6	0.7	10	837	1	39	< 0.01	5.73	1	< 2	1.69	2.29	0.11	163	0.425	105	0.08	2	424				
213278 Ong	1.0	57	< 0.3	2	23	74	283	0.30	4.64	4	< 2	0.62	3.38	2.19	1080	0.007	62	0.61	198	10				
213278 Dup	1.4	57	< 0.3	2	21	78	278	0.31	4.08	4	< 2	0.55	2.75	2.22	1050	0.009	58	0.64	198	7				
252925 Split	< 0.3	5	< 0.3	1	45	2	75	< 0.01	3.31	2	< 2	0.36	3.63	0.12	203	0.020	82	0.12	7	9	3.7	1.000		
252944 Ong	2.9	8	0.6	10	365	1	39	0.01	4.87	1	< 2	0.72	3.92	0.09	1480	0.059	81	0.05	2	94				
252944 Dup	2.5	9	0.5	9	356	2	41	0.01	4.63	1	< 2	0.70	3.50	0.09	1470	0.062	79	0.05	3	93				
252945 Split	2.0	7	0.6	7	356	1	47	< 0.01	4.99	1	< 2	0.66	4.41	0.11	1750	0.058	79	0.06	3	108	278	1.021		
252950 Split	5.2	7	0.5	9	452	2	67	< 0.01	4.66	1	< 2	0.72	3.37	0.14	338	0.094	83	0.12	5	96	295	1.060		
Method Blank Method Blank																							< 0.1	1.000

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Quality Control

Analyte Symbol	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	
Detection Limit	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
GXR-1 Meas	2.3	21	754	42	733	0.27	1.54	< 1	1380	0.95	0.05	0.26	947	0.060	305		89	31	
GXR-1 Cert	3.30	18.0	730	41.0	760	0.257	3.52	1.22	1380	0.960	0.0500	0.217	852	0.0650	275		80.0	32.0	
DH-1a Meas																			
DH-1a Cert																			
DNC-1 Meas		< 1	9	254	60	0.08	7.81	< 1	< 2	8.07	0.20	5.54	1120	0.015	138	0.30	152	16	
DNC-1 Cert		0.700	6.30	247	66.0	0.0390	9.69	1.00	0.0200	8.06	0.190	6.06	1150	0.0370	145	0.287	148	18.0	
GXR-2 Meas	5.2	< 1	724	22	572	0.03	5.57	1	< 2	0.79	1.27	0.61	976	0.065	143		61	9	
GXR-2 Cert	4.10	2.10	690	21.0	530	0.0313	16.5	1.70	0.690	0.930	1.37	0.850	1010	0.105	160		52.0	17.0	
SDC-1 Meas	< 0.3	1	22	37	103	0.07	4.86	2	< 2	1.00	2.70	0.86	919	0.060	169	0.62	100	20	
SDC-1 Cert	0.0800	0.250	25.0	38.0	103	0.0650	8.34	3.00	2.60	1.00	2.72	1.02	883	0.0690	183	0.606	102	40.0	
SCO-1 Meas	< 0.3	2	27	29	105	0.07	5.55	1	< 2	2.08	2.40	1.68	415	0.087	170	0.37	142	19	
SCO-1 Cert	0.140	1.37	31.0	27.0	103	0.0630	7.24	1.84	0.370	1.87	2.30	1.64	410	0.0900	174	0.380	131	26.0	
GXR-6 Meas	0.6	1	81	26	116	0.02	7.21	< 1	< 2	0.17	1.38	0.28	874	0.034	38		184	3	
GXR-6 Cert	1.00	2.40	101	27.0	118	0.0160	17.7	1.40	0.290	0.180	1.87	0.609	1010	0.0350	35.0		186	14.0	
SY-2 Meas																			
SY-2 Cert																			
OREAS 13P Meas				2080															
OREAS 13P Cert				2280															
GBW 07239 Meas		1090	19	19	131				< 2										
GBW 07239 Cert		1100	26.0	20.9	120				1.00										36
GBW 07239 Control Meas																			34.2
GBW 07239 Control Cert																			
213263 Orig																			
213263 Dup																			
213278 Orig																			
213278 Dup																			
252925 Split																			
252944 Orig																			
252944 Dup																			
252945 Split																			
252950 Split																			
Method Blank Method																			
Blank																			

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Sample ID	Au ppb	As ppm	Ba* ppm	Br ppm	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir* ppb	Na %	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Sr %	Ta ppm	Th ppm	U ppm	W ppm
213251	-2	6.3	898	-0.5	25	33	5	1.53	24	-1	-5	2.56	351	0.3	3.7	-3	-0.01	-0.05	-0.5	220	197	-1
213252	-2	5.0	585	-0.5	8	28	6	0.85	10	-1	-5	2.45	337	-0.1	2.0	-3	-0.01	-0.05	-0.5	205	455	-1
213253	-2	-0.5	-100	-0.5	-1	23	-1	0.49	22	-1	-5	3.26	66	-0.1	1.0	-3	-0.01	-0.05	-0.5	315	494	-1
213254	-2	-0.5	-100	-0.5	8	24	-1	0.89	20	-1	-5	2.88	41	-0.1	2.1	-3	-0.01	-0.05	-0.5	312	679	-1
213255	-2	-0.5	6577	-0.5	-1	37	-1	1.02	52	-1	-5	2.15	202	-0.1	2.4	-3	-0.01	-0.05	-0.5	331	890	-1
213256	-2	-0.5	3132	-0.5	8	19	-1	1.17	29	-1	-5	2.50	230	-0.1	2.7	-3	-0.01	-0.05	-0.5	278	376	-1
213257	-2	-0.5	-100	-0.5	-1	98	3	4.88	9	-1	-5	1.69	187	-0.1	20.3	-3	-0.01	-0.05	-0.5	277	40.9	-1
213258	18	1.7	744	-0.5	4	77	4	3.94	11	-1	7	3.11	240	-0.1	11.6	-3	-0.01	-0.05	2.0	132	47.0	-1
213259	-2	-0.5	1044	-0.5	5	-5	-1	2.31	57	-1	-5	2.73	169	-0.1	9.9	-3	-0.01	-0.05	-0.5	282	118	-1
213260	-5	-0.5	1357	-0.5	-1	-5	5	2.04	103	-1	-5	3.42	131	-0.1	6.9	-3	-0.01	-0.05	-0.5	515	217	-1
213261	-2	-0.5	710	-0.5	7	51	4	1.53	32	-1	-5	2.41	292	-0.1	5.2	-3	-0.01	-0.05	-0.5	143	590	-1
213262	-2	-0.5	641	-0.5	5	9	2	1.32	21	-1	-5	2.63	251	-0.1	4.8	-3	-0.01	-0.05	4.2	323	871	-1
213263	-5	-1.0	1052	-0.5	6	-5	4	0.86	8	-1	-5	2.49	326	-0.1	2.0	-3	-0.01	-0.05	-0.5	450	1250	-1
213265	-2	-0.5	256	-0.5	7	13	4	0.95	22	-1	-5	2.21	274	-0.1	2.6	-3	-0.01	-0.05	-0.5	279	402	-1
213266	-2	-0.5	272	-0.5	8	28	3	1.32	22	-1	-5	2.44	323	-0.1	3.8	-3	-0.01	-0.05	2.5	348	542	-1
213267	-5	-1.0	-100	-0.5	-1	-5	2	1.04	79	-5	-5	2.52	289	-0.1	3.7	-3	-0.01	-0.05	-1.0	466	1370	-1
213268	-5	-0.5	649	-0.5	8	-5	4	1.12	84	-5	-5	2.39	355	0.5	4.0	-3	-0.01	-0.05	-0.5	448	1220	-1
213269	-2	-0.5	501	-0.5	3	34	14	2.18	3	-1	-5	1.86	389	0.2	7.5	-3	-0.01	-0.05	2.3	18.5	22.5	-1
213270	39	-0.5	-50	-0.5	4	91	4	2.41	5	-1	-5	3.51	103	-0.1	5.2	-3	-0.01	-0.05	-0.5	17.4	16.8	-1
213271	-2	-0.5	832	-0.5	8	84	3	3.19	3	-1	-5	3.10	170	0.3	8.3	-3	-0.01	-0.05	-0.5	29.9	18.7	-1
213272	-2	1.1	822	-0.5	4	11	2	1.38	9	-1	-5	2.55	266	0.2	2.9	-3	-0.01	-0.05	-0.5	35.1	18.3	-1
213273	-2	4.6	802	-0.5	4	12	3	0.97	9	-1	-5	2.20	264	0.2	2.2	-3	-0.01	-0.05	-0.5	29.4	25.7	-1
213274	-2	9.6	395	-0.5	23	193	4	4.91	6	-1	-5	1.58	139	0.2	16.5	-3	-0.01	-0.05	-0.5	15.7	14.9	-1
213275	-2	-0.5	-50	-0.5	4	16	12	2.29	6	-1	-5	4.19	241	0.4	8.6	-3	-0.01	-0.05	5.9	64.7	23.0	-1
213276	-2	-0.5	652	-0.5	12	261	23	7.68	4	-1	-5	2.06	669	-0.1	29.4	-3	-0.01	-0.05	1.8	18.1	9.8	-1
213277	-2	-0.5	-50	-0.5	25	226	6	6.20	5	-1	-5	2.91	277	-0.1	20.8	-3	-0.01	-0.05	1.7	34.5	6.8	-1
213278	-2	-0.5	308	-0.5	24	310	31	9.38	8	-1	-5	2.28	694	0.6	27.4	-3	-0.01	-0.05	2.8	26.5	11.3	-1
252924	-2	24.5	687	-0.5	14	109	33	3.54	4	-1	-5	2.69	274	1.0	11.0	-3	-0.01	-0.05	5.3	20.3	9.2	-1
252925	-2	3.4	621	-0.5	2	8	12	1.37	2	-1	-5	1.92	376	0.3	3.5	-3	-0.01	-0.05	2.7	18.9	5.3	-1
252925 Split PULP DUP	-2	4.6	684	-0.5	2	9	14	1.47	1	-1	-5	1.96	401	0.3	3.7	-3	-0.01	-0.05	1.2	14.6	5.2	-1
252926	-2	4.4	532	-0.5	-1	-5	5	1.03	19	-1	-5	2.33	314	-0.1	3.0	-3	-0.01	-0.05	-0.5	255	594	-1
252927	-5	-0.5	524	-0.5	7	14	5	1.39	37	-1	-5	2.57	367	-0.1	3.7	-3	-0.01	-0.05	-0.5	423	961	-1
252928	-2	-0.5	546	-0.5	-1	22	5	1.27	21	-1	-5	2.34	332	-0.1	3.1	-3	-0.01	-0.05	-0.5	248	371	-1
252929	-2	-0.5	3119	-0.5	7	19	6	1.41	27	-1	-5	2.28	331	-0.1	3.8	-3	-0.01	-0.05	-0.5	272	833	-1
252930	-2	3.2	653	-0.5	14	18	2	3.03	8	-1	-5	1.35	186	-0.1	0.8	-3	-0.01	-0.05	1.0	23.4	80.0	-1
252931	-2	2.6	1000	-0.5	8	77	4	3.43	7	-1	-5	2.33	289	-0.1	1.6	-3	-0.01	-0.05	-0.5	89.8	112	-1
252932	-2	2.9	-50	-0.5	5	35	2	3.00	19	-1	-5	2.72	175	-0.1	1.3	-3	-0.01	-0.05	-0.5	163.0	728	-1
252933	-40	24.0	-600	-5.0	-20	44	-5	4.73	17	-10	-50	2.45	-100	-0.5	11.0	-25	-0.20	-0.15	21.7	2200	-30.0	-15
252934	-40	-7.0	-600	-5.0	29	-25	33	6.52	-5	-10	-50	2.50	-96	-0.5	16.0	-25	-0.20	-0.15	19.3	1940	40.7	-15
252935	-90	-15.0	-1380	-12.0	-20	-75	-10	6.97	-5	-20	-130	1.32	-175	-1.5	20.3	-50	-0.50	-0.30	-15.0	3870	99.0	-25

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Sample ID	Au ppb	As ppm	Ba* ppm	Br ppm	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir* ppb	Na %	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Sr %	Ta ppm	Th ppm	U ppm	W ppm
252936	-40	-7.0	-600	-5.0	22	-25	-5	4.79	-5	-10	-50	2.58	-94	-0.5	13.0	-25	-0.20	-0.15	-5.0	1960	54.0	-15
252937	-90	-15.0	3450	-12.0	-20	-70	-10	7.62	-5	-20	-130	0.81	-160	-1.5	16.2	-50	-0.50	-0.30	-15.0	3480	102	-25
252938	-2	3.5	-50	-0.5	44	33	-1	22.1	-1	-1	-5	0.38	35	0.2	9.8	-3	-0.01	-0.05	0.7	5.5	< 0.5	108
252939	-2	1.6	-50	-0.5	4	8	-1	3.22	3	-1	-5	1.66	44	-0.1	0.1	-3	-0.01	-0.05	-0.5	69.7	3.4	-1
252940	-5	-0.5	-100	-0.5	-1	17	-1	1.62	24	-5	-5	2.40	351	0.7	4.6	-3	-0.01	-0.05	-0.5	559	1660	-1
252941	-2	4.2	749	-0.5	3	-5	6	1.48	13	-5	-10	2.68	317	-0.1	6.5	-3	-0.01	-0.05	-0.5	158	1190	-1
252942	-2	4.7	1096	-0.5	6	15	3	1.58	32	-1	-5	2.01	291	-0.1	6.4	-3	-0.01	-0.05	-0.5	160	285	-1
252943	-2	3.9	1159	-0.5	4	-5	4	1.48	26	-1	-5	2.22	265	-0.1	6.7	-3	-0.01	-0.05	-0.5	138	242	20
252944	-2	3.5	966	-0.5	3	10	5	1.64	24	-1	-5	2.16	322	-0.1	7.4	-3	-0.01	-0.05	-0.5	193	271	-1
252945	-2	4.0	1054	-0.5	-1	-5	6	2.01	17	-1	-5	2.24	376	-0.1	8.9	-3	-0.01	-0.05	-0.5	183	267	-1
252945 Split PREP DUP	-2	-0.5	895	-0.5	-1	-5	7	1.90	17	-1	-20	2.05	333	0.3	8.1	-3	-0.01	-0.05	-0.5	178	245	-1
252946	-2	-0.5	4477	-0.5	6	33	5	1.22	17	-1	-20	2.20	400	-0.1	2.9	-3	-0.01	-0.05	-0.5	157	1050	-1
252947	-2	4.1	752	-0.5	4	15	5	1.14	16	-1	-5	2.20	334	-0.1	2.8	-3	-0.01	-0.05	-0.5	127	764	-1
252948	-2	7.3	804	-0.5	3	23	5	0.81	5	-1	-5	2.01	323	0.4	2.0	-3	0.11	-0.05	1.7	53.9	820	-1
252949	-2	-0.5	924	-0.5	3	15	5	1.27	30	-1	-5	2.09	289	0.3	3.5	-3	-0.01	-0.05	-0.5	157	238	-1
252950	-2	5.6	657	-0.5	5	12	7	1.56	39	-1	-5	2.27	352	0.2	4.9	-3	-0.01	-0.05	-0.5	218	303	-1
252950 Split PULP DUP	-2	4.3	861	-0.5	-1	-5	6	1.63	38	-1	-5	2.16	364	-0.1	4.8	-3	-0.01	-0.05	-0.5	208	285	-1
BLANK	-2	-0.5	-50	-0.5	-1	-5	-1	-0.01	-1	-1	-5	-0.01	-15	-0.1	-0.1	-3	-0.01	-0.05	-0.5	-0.2	-0.5	-1
DMMAS-103	574	3039.4	589	-0.5	70	131	-1	6.24	-1	-1	-5	0.78	-15	17.0	12.0	-3	-0.01	-0.05	-0.5	-0.2	-0.5	10
DMMAS-103	545	3094.0	527	-0.5	68	124	-1	6.27	-1	-1	-5	0.81	-15	17.3	11.7	-3	-0.01	-0.05	-0.5	-0.2	-0.5	9
DMMAS-103	557	3079.8	526	-0.5	73	129	-1	6.31	-1	-1	-5	0.77	-15	16.7	11.9	-3	-0.01	-0.05	-0.5	-0.2	-0.5	10
DMMAS-103	592	3075.0	543	-0.5	74	128	-1	6.26	-1	-1	-5	0.81	-15	16.8	12.0	-3	-0.01	-0.05	-0.5	-0.2	-0.5	10
DMMAS103 Accepted	539	2952.0	545		71	131		6.54				0.80		16.9	11.5							10

Detection limits are elevated due to high concentration of U and REEs
 * U interference

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Sample ID	La*	Ce*	Nd*	Sm*	Eu	Tb	Yb	Lu*	Mass
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
213251	223	458	98	30.1	-0.2	4.1	4.1	-0.05	20.05
213252	163	295	73	19.4	-0.2	3.1	6.1	-0.05	26.27
213253	337	590	116	40.0	-0.2	2.5	2.8	-0.05	21.27
213254	341	550	85	37.4	-0.2	4.8	3.0	-0.05	26.07
213255	326	542	133	35.1	-0.2	4.4	2.7	-0.05	20.91
213256	302	571	133	36.3	-0.2	2.2	2.8	-0.05	19.66
213257	326	619	73	38.1	-0.2	4.6	33.8	6.17	22.69
213258	154	300	118	19.2	1.0	3.1	10.4	2.00	20.46
213259	174	396	42	27.9	-0.2	5.9	54.7	9.91	24.70
213260	324	687	322	53.2	-0.2	14.1	93.6	15.9	19.59
213261	67.7	122	-5	10.5	-0.2	4.2	33.1	8.88	24.16
213262	205	385	-5	28.3	-0.2	14.0	68.3	14.8	23.07
213263	285	593	49	47.9	-0.2	23.5	124	24.5	17.48
213265	221	437	31	33.5	-0.2	5.4	12.0	-0.05	21.46
213266	283	538	27	42.9	-0.2	7.4	15.6	-0.05	19.42
213267	349	619	-5	46.4	-0.2	9.3	26.7	-0.05	19.00
213268	324	586	-5	43.9	-0.2	9.8	28.4	-0.05	21.11
213269	18.1	41	31	2.7	0.3	1.1	10.4	1.73	22.46
213270	31.5	62	11	3.1	0.9	-0.5	0.9	0.13	21.85
213271	52.7	100	21	6.5	1.0	-0.5	2.0	0.23	25.59
213272	41.1	85	14	5.0	1.0	-0.5	3.3	0.71	21.67
213273	32.0	68	13	4.1	0.8	-0.5	3.9	0.69	21.97
213274	36.1	72	-5	2.5	1.5	-0.5	4.0	0.54	23.66
213275	37.0	87	116	4.4	-0.2	2.3	14.5	2.38	23.18
213276	48.7	91	-5	5.0	0.8	-0.5	2.4	0.24	22.95
213277	60.2	122	-5	6.5	0.9	-0.5	3.5	0.54	24.74
213278	63.0	109	-5	4.4	1.1	-0.5	5.3	0.72	25.71
252924	40.4	74	-5	3.6	0.7	-0.5	1.9	0.32	24.74
252925	13.3	34	-5	2.6	0.6	-0.5	6.3	0.92	23.20
252925 Split PULP DUP	14.1	32	10	2.5	0.4	1.0	5.8	0.92	25.49
252926	192	344	-5	28.5	-0.2	5.3	10.2	-0.05	24.48
252927	312	551	-5	47.8	-0.2	8.3	17.6	-0.05	20.39
252928	185	365	-5	14.3	1.6	5.0	9.2	-0.05	22.95
252929	211	390	-5	33.4	-0.2	5.2	10.4	-0.05	20.93
252930	29.1	52	14	2.8	0.8	-0.5	0.7	-0.05	24.60
252931	125	236	71	14.1	1.1	1.8	1.4	-0.05	21.12
252932	198	396	68	18.6	-0.2	3.5	3.3	-0.05	22.26
252933	6050	8240	2210	367	3.7	34.0	-2.0	-0.25	23.88
252934	5400	7440	1970	313	-0.5	25.9	21.7	2.25	24.26
252935	>10000	>10000	3230	519	-1.5	33.9	-2.0	-0.50	25.48

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Sample ID	La*	Ce*	Nd*	Sm*	Eu	Tb	Yb	Lu*	Mass
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
252936	5510	7400	1980	302	-0.5	28.6	-1.2	-0.50	24.79
252937	8610	>10000	3170	475	-1.5	25.5	-2.0	-0.50	23.14
252938	22.8	44	13	2.9	0.8	-0.5	1.7	0.34	34.50
252939	160	270	67	11.3	0.5	-0.5	0.5	-0.05	25.16
252940	465	825	332	48.3	-0.2	12.3	20.6	-0.05	23.69
252941	163	298	105	25.5	-0.2	5.9	27.9	4.91	23.24
252942	148	277	43	14.9	-0.2	5.2	40.9	8.63	23.43
252943	133	248	61	14.0	-0.2	5.7	47.1	9.50	20.45
252944	177	331	72	18.5	-0.2	5.2	37.2	8.13	20.94
252945	168	314	100	16.9	-0.2	6.7	49.4	10.1	23.33
252945 Split PREP DUP	165	306	91	20.3	-0.2	5.8	40.0	8.00	23.82
252946	144	187	-5	-0.1	-0.2	3.4	7.9	-0.05	18.98
252947	108	143	-5	-0.1	-0.2	2.3	6.5	-0.05	22.67
252948	79.3	56	-5	-0.1	-0.2	2.2	7.4	-0.05	21.04
252949	135	244	70	15.1	-0.2	4.9	17.7	4.26	24.45
252950	182	332	70	20.5	2.3	6.6	28.7	6.39	22.52
252950 Split PULP DUP	175	331	99	23.0	-0.2	6.4	23.3	5.12	22.26
BLANK	-0.5	-2	-5	-0.1	-0.2	-0.5	-0.2	-0.05	30.00
DMMAS-103	11.5	16	-5	2.4	0.8	-0.5	2.3	0.31	20.08
DMMAS-103	11.8	17	-5	2.2	0.7	-0.5	2.0	0.30	20.12
DMMAS-103	11.5	17	-5	2.4	0.7	-0.5	2.3	0.30	20.06
DMMAS-103	11.6	19	-5	2.5	0.8	-0.5	2.1	0.35	20.52
DMMAS103 Accepted	10.9	16		2.1	0.7		2.1	0.34	

Quality Analysis ...



Innovative Technologies

Date Submitted: 20-Aug-07
Invoice No.: A07-3674
Invoice Date: 23-Oct-07
Your Reference: 183099-U GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

16 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT **A07-3674**

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Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman". The signature is written in a cursive, flowing style.

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Activation Laboratories Ltd. Report: A07-3674

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD- ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD- ICP	MULT INAA / TD- ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
213279	< 2	1.1	3	< 0.3	11	70	3	11	< 0.01	6.16	< 0.5	< 50	< 1	< 2	< 0.5	0.66	< 1	21	2	0.9	0.34	2	< 1	< 5
213280	< 2	1.0	14	< 0.3	6	62	37	71	0.01	3.28	< 0.5	< 50	< 1	< 2	< 0.5	0.73	11	66	6	0.7	2.22	3	< 1	< 5
213281	< 2	2.0	3	< 0.3	3	58	3	11	< 0.01	4.76	< 0.5	< 50	< 1	< 2	< 0.5	0.29	3	38	< 1	< 0.2	0.42	2	< 1	< 5
213282	< 2	2.2	28	< 0.3	31	347	40	67	0.11	4.37	2.6	< 50	2	< 2	< 0.5	0.61	8	61	8	< 0.2	2.30	11	< 1	< 5
213283	< 2	2.0	56	< 0.3	12	111	79	122	0.34	4.38	1.3	720	1	< 2	< 0.5	0.50	28	265	14	1.2	5.53	12	< 1	< 5
213284	< 2	1.3	4	< 0.3	7	47	2	9	< 0.01	4.58	1.8	850	< 1	< 2	< 0.5	0.55	4	9	3	< 0.2	0.41	6	< 1	< 5
213285	< 2	1.3	17	< 0.3	24	52	2	8	< 0.01	5.14	1.8	< 50	< 1	< 2	< 0.5	0.68	4	14	3	0.7	0.32	6	< 1	< 5
213286	< 2	3.5	4	< 0.3	15	66	6	15	< 0.01	7.47	< 0.5	< 50	< 1	< 2	< 0.5	0.69	9	32	3	< 0.2	0.44	< 1	< 1	< 5
213287	< 2	2.4	5	< 0.3	10	55	2	11	< 0.01	5.87	< 0.5	< 50	< 1	< 2	< 0.5	0.45	9	38	3	< 0.2	0.37	3	< 1	< 5
213288	< 2	22.3	5	< 0.3	10	48	2	12	< 0.01	6.58	< 0.5	< 50	< 1	< 2	< 0.5	0.73	9	34	< 1	< 0.2	0.36	2	< 1	< 5
213289	< 2	1.2	3	< 0.3	1	92	11	35	< 0.01	3.51	< 0.5	< 50	< 1	< 2	< 0.5	0.53	5	35	2	< 0.2	1.11	6	< 1	< 5
213290	< 2	1.0	3	< 0.3	2	97	15	47	< 0.01	3.58	< 0.5	< 50	< 1	< 2	< 0.5	0.47	7	58	4	< 0.2	1.44	3	< 1	< 5
213291	< 2	< 0.3	102	0.3	2	< 3	94	86	6.53	3.79	7.6	< 50	< 1	< 2	< 0.5	4.63	85	245	3	0.6	18.7	< 1	< 1	< 5
213292	11	< 0.3	252	0.3	4	< 3	113	84	8.79	4.33	5.3	< 50	< 1	< 2	< 0.5	4.45	28	222	4	0.6	20.7	< 1	< 1	< 5
213293	< 2	0.9	708	2.3	4	< 3	50	113	4.20	5.14	2.5	< 50	4	< 2	< 0.5	0.20	31	< 2	1080	0.3	15.6	6	< 1	< 5
213294	< 2	0.9	582	3.6	1	11	59	395	5.56	3.05	12.9	< 50	2	< 2	< 0.5	0.59	34	37	7	< 0.2	9.59	1	< 1	< 5

Activation Laboratories Ltd. Report: A07-3674

Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
213279	4.66	0.12	38	1.62	0.009	108	< 0.1	0.6	< 3	253	< 0.5	0.03	30.1	999	4	< 1	2	26.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.2
213280	2.98	0.79	294	2.39	0.039	111	< 0.1	4.9	< 3	194	< 0.5	0.29	19.4	341	61	< 1	1	37.2	44	< 5	< 0.1	< 0.01	< 0.5	0.5
213281	5.50	0.11	55	1.53	0.024	129	< 0.1	0.5	< 3	254	< 0.5	0.04	11.0	2290	2	< 1	< 1	71.6	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.2
213282	4.04	0.83	331	2.46	0.012	212	0.6	4.5	< 3	266	2.4	0.36	196	407	70	< 1	7	79.3	108	< 5	< 0.1	< 0.01	< 0.5	1.6
213283	5.31	1.69	667	1.55	0.011	262	0.4	11.7	< 3	217	1.8	0.89	73.4	92.2	161	< 1	3	47.4	82	17	2.8	< 0.01	< 0.5	1.1
213284	3.23	0.08	63	1.95	0.003	< 15	0.2	0.6	< 3	208	2.1	0.03	19.1	353	4	< 1	< 1	11.9	< 3	< 5	< 0.1	< 0.01	< 0.5	0.4
213285	3.38	0.06	56	1.86	0.004	90	< 0.1	0.4	< 3	226	< 0.5	0.02	23.8	444	3	< 1	1	14.0	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.2
213286	3.20	0.22	87	1.45	0.019	103	< 0.1	0.8	< 3	319	< 0.5	0.06	26.5	2990	9	< 1	2	92.5	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.2
213287	4.93	0.08	68	1.57	0.013	135	< 0.1	0.4	< 3	274	< 0.5	0.03	29.4	2390	3	< 1	< 1	76.8	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.2
213288	3.94	0.09	67	1.80	0.009	61	< 0.1	0.5	< 3	281	< 0.5	0.03	27.3	2390	< 2	< 1	< 1	76.9	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.2
213289	3.20	0.32	161	2.37	0.005	83	< 0.1	1.6	< 3	218	< 0.5	0.14	19.0	591	28	< 1	< 1	17.8	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.2
213290	3.62	0.46	216	2.28	0.004	118	< 0.1	2.5	< 3	229	< 0.5	0.21	12.0	813	42	< 1	< 1	23.8	< 3	< 5	< 0.1	< 0.01	< 0.5	0.3
213291	0.11	2.60	5350	0.82	0.020	65	6.4	32.1	< 3	98	< 0.5	0.35	< 0.2	6.8	199	< 1	10	4.2	8	< 5	1.1	< 0.01	< 0.5	1.5
213292	0.16	2.74	3820	0.57	0.018	< 15	8.5	27.1	< 3	63	< 0.5	0.33	0.8	2.4	181	< 1	11	4.5	11	< 5	1.0	< 0.01	< 0.5	1.6
213293	2.19	0.88	15100	0.26	0.014	3070	18.5	11.3	< 3	45	24.5	0.09	6.1	6.7	26	< 1	36	13.1	26	19	4.7	< 0.01	1.8	3.3
213294	0.78	1.12	632	0.52	0.011	30	1.0	4.7	< 3	23	< 0.5	0.10	2.9	2.6	35	2	5	7.3	14	< 5	0.9	< 0.01	< 0.5	0.5

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
213279	< 0.05	30.8	1010	1.056
213280	< 0.05	31.6	327	1.057
213281	< 0.05	52.7	2330	1.040
213282	< 0.05	25.1	406	1.070
213283	< 0.05	23.6	81.2	1.048
213284	< 0.05	25.5	337	1.100
213285	< 0.05	26.4	452	1.023
213286	< 0.05	24.4	3070	1.079
213287	< 0.05	26.1	2430	1.054
213288	< 0.05	26.8	2400	1.062
213289	< 0.05	24.9	580	1.043
213290	< 0.05	25.1	760	1.030
213291	0.35	29.7	6.1	1.097
213292	0.31	28.9	1.9	1.066
213293	0.30	27.4	5.0	1.059
213294	0.13	30.0	1.7	1.080

Activation Laboratories Ltd. Report: A07-3674

Quality Control

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01
Analysis Method	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA
GXR-1 Meas		31.3		1150	2.9	20	730	4.3		744		0.27	2.09											
GXR-1 Cert		31.0		1110	3.30	18.0	730	41.0		760		0.257	3.52			1.22	1380		0.88					
DH-1a Meas																								
DH-1a Cert																								
DNC-1 Meas		< 0.3		90		1	8	244		54		0.06	10.4			< 1	< 2		7.65					
DNC-1 Cert		0.0270		96.0		0.700	6.30	247		66.0		0.0390	9.69			1.00	0.0200		8.06					
GXR-4 Meas		3.5		6430	0.4	308	50	41		75		1.85	4.92			2	15		0.97					
GXR-4 Cert		4.00		6520	0.860	310	52.0	42.0		73.0		1.77	7.20			1.90	19.0		1.01					
GXR-2 Meas		16.7		78	4.7	2	662	21		532		0.02	7.75			1	< 2		0.62					
GXR-2 Cert		17.0		78.0	4.10	2.10	690	21.0		530		0.0313	16.5			1.70	0.690		0.930					
SDC-1 Meas		< 0.3		31	< 0.3	4	22	36		101		0.07	6.78			3	< 2		0.92					
SDC-1 Cert		0.0410		30.0	0.0800	0.250	25.0	38.0		103		0.0650	8.34			3.00	2.60		1.00					
SCO-1 Meas		0.6		28	< 0.3	4	27	29		100			6.72			2	< 2		1.82					
SCO-1 Cert		0.134		28.7	0.140	1.37	31.0	27.0		103			7.24			1.84	0.370		1.87					
GXR-6 Meas		0.8		69	< 0.3	4	95	27		127		0.02	7.34			< 1	< 2		0.13					
GXR-6 Cert		1.30		66.0	1.00	2.40	101	27.0		118		0.0160	17.7			1.40	0.290		0.160					
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas				2320				2170																
OREAS 13P Cert				2500				2260																
BL-4a Meas																								
BL-4a Cert																								
DMMAS-104 Meas	234									100			1540	890					44	100		1.2	5.84	
DMMAS-104 Cert	229									96.2			1570	850					48.8	95.1		1.2	5.61	
DMMAS-104 Meas	237									110			1560	860					46	102		1.3	5.90	
DMMAS-104 Cert	229									96.2			1570	850					48.8	95.1		1.2	5.61	
213284 Orig		1.4		4	< 0.3	7	47	3		9		< 0.01	4.57			< 1	< 2		0.54					
213284 Dup		1.2		4	< 0.3	7	47	2		8		< 0.01	4.59			< 1	< 2		0.56					
213294 Split	< 2	0.8	< 5	546	3.7	3	8	59	< 20	388	380	3.71	2.95	13.6	< 50	2	< 2	< 0.5	0.59	34	34	7	< 0.2	9.68
Method Blank Method																								
Blank																								

Activation Laboratories Ltd. Report: A07-3674

Quality Control

Analyte Symbol	Hf	Hg	Ir	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Tl	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppm	ppm	ppb	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	5	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Analysis Method	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
GXR-1 Meas				0.08	0.28	333		0.060					308											
GXR-1 Cert				0.0500	0.217	852		0.0650					275					82			33			
DH-1a Meas																		60.0			32.0			
DH-1a Cert																								
DNC-1 Meas				0.22	5.91	1110		0.025					139		0.28			141			17			
DNC-1 Cert				0.190	6.06	1150		0.0370					145		0.287			148			18.0			
GXR-4 Meas				3.89	1.58	154		0.126					197					86			10			
GXR-4 Cert				4.01	1.86	155		0.120					221					87.0			14.0			
GXR-2 Meas				1.29	0.73	781		0.063					134					52			10			
GXR-2 Cert				1.37	0.850	1010		0.105					160					52.0			17.0			
SDC-1 Meas				2.65	0.98	902		0.060					169		0.80			97			25			
SDC-1 Cert				2.72	1.02	883		0.0690					183		0.606			102			40.0			
SCO-1 Meas				2.23	1.81	410		0.085					163		0.35			135			19			
SCO-1 Cert				2.30	1.64	410		0.0900					174		0.380			131			26.0			
GXR-6 Meas				1.41	0.22	1010		0.033					28					202			4			
GXR-6 Cert				1.87	0.609	1010		0.0350					35.0					186			14.0			
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas																								
OREAS 13P Cert																								
BL-4a Meas																								
BL-4a Cert																								
DMMAS-104 Meas							3.16			6.2	14.6					7.8	72.8		< 1		36.7	63	19	3.9
DMMAS-104 Cert							3.43			6.2	14.1					8.3	71.9		6		36.6	62.9	18.6	4.3
DMMAS-104 Meas							3.32			6.7	15.3					8.0	72.7		8		37.7	62	17	3.9
DMMAS-104 Cert							3.43			6.2	14.1					8.3	71.9		6		36.6	62.9	18.6	4.3
213284 Orig				3.20	0.08	63		0.003					208		0.03			4			< 1			
213284 Dup				3.26	0.08	62		0.003					209		0.03			4			< 1			
213294 Split	< 1	< 1	< 5	0.78	1.11	625	0.52	0.010	41	1.1	4.8	< 3	20	< 0.5	0.10	2.8	2.1	34	< 1	5	7.5	13	< 5	0.9
Method Blank Method																								
Blank																								

Quality Control

Analyte Symbol	Sn	Tb	Yb	Lu	Mass	U	Mass
Unit Symbol	%	ppm	ppm	ppm	g	ppm	g
Detection Limit	0.01	0.5	0.2	0.05		0.1	
Analysis Method	INAA	INAA	INAA	INAA	INAA	DNC	DNC
GXR-1 Meas							
GXR-1 Cert							
DH-1a Meas						2640	
DH-1a Cert						2630	
DNC-1 Meas							
DNC-1 Cert							
GXR-4 Meas							
GXR-4 Cert							
GXR-2 Meas							
GXR-2 Cert							
SDC-1 Meas							
SDC-1 Cert							
SCO-1 Meas							
SCO-1 Cert							
GXR-6 Meas						280	
GXR-6 Cert						284	
SY-2 Meas							
SY-2 Cert							
OREAS 13P Meas							
OREAS 13P Cert							
BL-4a Meas						1270	
BL-4a Cert						1250	
DMMAS-104 Meas			3.5	0.45			
DMMAS-104 Cert			3.0	0.4			
DMMAS-104 Meas			3.4	0.45			
DMMAS-104 Cert			3.0	0.4			
213284 Orig							
213284 Dup							
213284 Split	< 0.01	< 0.5	0.5	0.09	29.3	1.8	1.083
Method Blank Method						< 0.1	1.000
Blank							

Quality Analysis ...



Innovative Technologies

Date Submitted: 27-Aug-07
Invoice No.: A07-3894 (i)
Invoice Date: 17-Oct-07
Your Reference: 180399 U GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

60 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT A07-3894 (i)

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A07-3894 (i)

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Au ppb 2 INAA	Ag ppm 0.3 MULT INAA / TD-ICP	Cu ppm 1 TD-ICP	Cd ppm 0.3 TD-ICP	Mo ppm 1 TD-ICP	Pb ppm 3 TD-ICP	Ni ppm 1 MULT INAA / TD-ICP	Zn ppm 1 MULT INAA / TD-ICP	S % 0.01 TD-ICP	Al % 0.01 TD-ICP	As ppm 0.5 INAA	Ba ppm 50 INAA	Be ppm 1 TD-ICP	Bi ppm 2 TD-ICP	Br ppm 0.5 INAA	Ca % 0.01 TD-ICP	Co ppm 1 INAA	Cr ppm 2 INAA	Cs ppm 1 INAA	Eu ppm 0.2 INAA	Fe % 0.01 INAA	Hf ppm 1 INAA	Hg ppm 1 INAA	Ir ppb 5 INAA
213295	< 2	2.8	10	< 0.3	7	118	14	32	< 0.01	2.45	6.3	< 50	1	< 2	< 0.5	0.43	9	22	5	< 0.2	1.52	14	< 1	< 5
213296	< 2	2.4	8	< 0.3	12	113	2	24	< 0.01	2.19	7.3	< 50	1	< 2	< 0.5	0.40	< 1	11	3	< 0.2	1.05	12	< 1	< 5
213297	< 2	2.1	4	< 0.3	6	105	2	20	< 0.01	2.19	< 0.5	< 50	1	< 2	< 0.5	0.42	< 1	31	5	< 0.2	1.08	11	< 1	< 5
213298	< 2	2.7	5	< 0.3	5	117	2	27	< 0.01	2.17	6.5	< 50	1	< 2	< 0.5	0.38	11	28	5	< 0.2	1.38	12	< 1	< 5
213299	< 2	2.8	4	< 0.3	7	94	2	21	< 0.01	1.88	7.1	< 50	1	< 2	< 0.5	0.34	4	19	4	< 0.2	1.45	14	< 1	< 5
213300	< 2	1.3	2	< 0.3	4	38	2	12	< 0.01	1.37	10.6	< 50	< 1	< 2	< 0.5	0.16	5	21	4	< 0.2	1.35	9	< 1	< 5
213301	< 2	1.4	2	< 0.3	3	44	4	11	< 0.01	1.71	5.3	< 50	< 1	< 2	< 0.5	0.31	3	14	3	< 0.2	1.02	9	< 1	< 5
213302	< 2	3.7	9	0.3	5	61	1	11	0.02	1.91	4.8	< 50	< 1	< 2	< 0.5	0.22	5	12	3	< 0.2	1.57	14	< 1	< 5
213303	< 2	3.8	3	< 0.3	9	56	< 1	13	< 0.01	2.02	8.5	< 50	< 1	< 2	< 0.5	0.23	< 1	< 2	4	< 0.2	1.18	18	< 1	< 5
213304	< 2	< 0.3	4	< 0.3	4	193	3	36	< 0.01	6.53	6.2	< 50	1	< 2	< 0.5	0.63	< 1	5	3	< 0.2	1.27	14	< 1	< 5
213305	< 2	2.5	7	< 0.3	7	152	< 1	15	0.01	1.97	8.3	< 50	< 1	< 2	< 0.5	0.33	14	16	3	< 0.2	1.39	11	< 1	< 5
213306	< 2	3.3	10	< 0.3	6	358	2	21	0.03	2.09	7.7	490	< 1	< 2	< 0.5	0.32	5	27	4	< 0.2	1.57	14	< 1	< 5
213307	< 2	2.3	5	< 0.3	5	51	< 1	16	0.02	1.50	5.5	480	< 1	< 2	< 0.5	0.31	5	13	3	< 0.2	1.27	9	< 1	< 5
213308	< 2	1.6	7	< 0.3	2	53	2	16	< 0.01	1.58	5.5	< 50	< 1	< 2	< 0.5	0.35	5	9	3	< 0.2	1.34	7	< 1	< 5
213309	< 2	1.5	3	< 0.3	3	23	< 1	8	< 0.01	1.43	4.1	< 50	< 1	< 2	< 0.5	0.14	6	16	3	< 0.2	1.30	9	< 1	< 5
213310	< 2	2.1	4	< 0.3	5	41	< 1	15	< 0.01	1.70	5.9	< 50	< 1	< 2	< 0.5	0.20	8	8	2	< 0.2	1.40	8	< 1	< 5
213311	< 2	1.9	3	< 0.3	5	77	< 1	22	< 0.01	1.41	5.2	< 50	< 1	< 2	< 0.5	0.36	3	11	3	0.9	1.12	9	< 1	< 5
213312	< 2	2.1	3	< 0.3	5	63	1	17	< 0.01	2.03	2.8	< 50	< 1	< 2	< 0.5	0.35	6	13	2	< 0.2	1.36	9	< 1	< 5
213313	< 2	4.3	3	< 0.3	9	262	1	26	< 0.01	2.03	4.6	< 50	< 1	< 2	< 0.5	0.38	5	17	3	< 0.2	0.98	18	< 1	< 5
213314	< 2	4.3	4	< 0.3	8	256	1	28	< 0.01	1.95	7.0	< 50	< 1	< 2	< 0.5	0.40	3	15	3	1.7	1.04	20	< 1	< 5
213315	< 2	3.6	3	< 0.3	6	163	< 1	32	< 0.01	1.62	4.8	< 50	< 1	< 2	< 0.5	0.33	3	9	4	< 0.2	1.29	15	< 1	< 5
213316	< 2	3.3	2	< 0.3	8	138	< 1	26	< 0.01	1.71	4.4	< 50	< 1	< 2	< 0.5	0.34	< 1	13	3	< 0.2	1.04	15	< 1	< 5
213317	< 2	4.6	3	< 0.3	42	189	1	22	< 0.01	1.87	2.5	< 50	< 1	< 2	< 0.5	0.42	4	7	4	< 0.2	1.18	20	< 1	< 5
213318	< 2	3.8	2	< 0.3	7	150	< 1	19	< 0.01	1.44	4.3	370	< 1	< 2	< 0.5	0.31	3	14	3	< 0.2	1.15	21	< 1	< 5
213319	< 2	0.9	1	< 0.3	6	59	< 1	18	< 0.01	1.43	3.7	< 50	< 1	< 2	< 0.5	0.28	5	10	3	< 0.2	0.90	5	< 1	< 5
213320	< 2	2.6	2	< 0.3	13	160	< 1	17	< 0.01	2.05	3.1	< 50	< 1	< 2	< 0.5	0.35	< 1	19	2	< 0.2	0.70	9	< 1	< 5
213321	< 2	2.1	2	< 0.3	17	109	< 1	16	< 0.01	1.98	3.8	< 50	< 1	< 2	< 0.5	0.55	< 1	10	2	1.1	0.80	10	< 1	< 5
213322	< 2	2.1	2	< 0.3	8	72	2	28	< 0.01	1.51	6.0	< 50	< 1	< 2	< 0.5	0.37	3	9	3	< 0.2	1.03	9	< 1	< 5
213323	< 2	1.8	3	< 0.3	9	113	< 1	17	< 0.01	1.56	4.3	580	< 1	< 2	< 0.5	0.44	< 1	5	3	< 0.2	0.84	9	< 1	< 5
213324	< 2	0.6	2	< 0.3	5	310	< 1	51	< 0.01	6.25	1.9	< 50	1	< 2	< 0.5	0.67	< 1	17	3	< 0.2	0.67	8	< 1	< 5
213325	< 2	7.3	2	< 0.3	21	610	< 1	15	< 0.01	2.51	1.2	< 50	< 1	< 2	< 0.5	0.60	7	65	7	< 0.2	0.97	39	< 1	< 5
213326	< 2	4.9	< 1	< 0.3	13	141	< 1	9	< 0.01	1.56	3.1	< 50	< 1	< 2	< 0.5	0.47	4	12	3	< 0.2	0.61	17	< 1	< 5
213327	< 2	< 0.3	4	< 0.3	14	704	< 1	47	< 0.01	7.55	< 0.5	< 50	2	< 2	< 0.5	0.90	6	11	3	< 0.2	0.90	31	< 1	< 5
213328	< 2	3.2	4	< 0.3	17	787	< 1	40	< 0.01	8.19	4.2	< 50	1	< 2	< 0.5	0.77	5	19	3	< 0.2	0.79	18	< 1	< 5
213329	< 2	< 0.3	4	< 0.3	12	445	< 1	37	< 0.01	8.71	3.1	< 50	2	< 2	< 0.5	1.14	5	8	2	1.4	0.68	18	< 1	< 5
213330	< 2	3.1	6	< 0.3	9	507	< 1	48	< 0.01	8.23	3.1	< 50	1	< 2	< 0.5	0.95	3	18	3	< 0.2	0.99	13	< 1	< 5
213331	< 2	1.2	3	< 0.3	1	81	1	44	< 0.01	7.58	7.3	< 50	3	< 2	< 0.5	0.96	4	19	5	< 0.2	0.75	3	< 1	< 5
213332	< 2	0.4	6	< 0.3	2	59	1	47	< 0.01	7.25	6.3	< 50	2	< 2	< 0.5	0.67	5	13	6	< 0.2	0.75	2	< 1	< 5
213333	< 2	1.5	6	< 0.3	2	161	< 1	47	< 0.01	7.35	8.0	< 50	2	< 2	< 0.5	1.09	5	5	5	< 0.2	0.76	8	< 1	< 5
213334	< 2	0.4	2	< 0.3	< 1	71	1	60	< 0.01	7.22	6.8	< 50	2	< 2	< 0.5	0.68	5	14	5	0.4	0.83	2	< 1	< 5
213335	< 2	0.6	2	< 0.3	1	95	< 1	34	< 0.01	7.18	7.4	< 50	2	< 2	< 0.5	0.61	3	< 2	5	< 0.2	0.58	4	< 1	< 5
213336	< 2	0.4	2	< 0.3	3	126	1	51	< 0.01	7.93	7.6	410	2	< 2	< 0.5	0.79	2	11	5	< 0.2	0.79	4	< 1	< 5
213337	< 2	1.3	3	< 0.3	3	130	2	69	< 0.01	8.07	5.2	< 50	< 1	< 2	< 0.5	0.39	< 1	10	4	< 0.2	1.19	5	< 1	< 5
213338	< 2	1.0	3	< 0.3	2	136	1	69	< 0.01	7.79	4.1	< 50	< 1	< 2	< 0.5	0.48	3	11	4	< 0.2	1.10	8	< 1	< 5
213339	< 2	1.6	3	< 0.3	2	137	2	61	< 0.01	7.73	3.3	< 50	< 1	< 2	< 0.5	0.48	< 1	< 2	3	< 0.2	1.11	6	< 1	< 5
213340	< 2	1.3	2	< 0.3	< 1	142	2	75	< 0.01	8.07	2.8	< 50	1	< 2	< 0.5	0.52	3	12	4	< 0.2	1.31	6	< 1	< 5
213341	< 2	1.5	3	< 0.3	3	141	2	59	< 0.01	7.52	4.1	< 50	1	< 2	< 0.5	0.76	2	11	4	< 0.2	1.14	6	< 1	< 5
213342	< 2	2.8	5	< 0.3	6	171	2	51	< 0.01	7.72	5.1	< 50	< 1	< 2	< 0.5	0.70	5	13	3	< 0.2	1.20	9	< 1	< 5
213343	< 2	2.0	3	< 0.3	4	301	2	87	< 0.01	6.99	5.4	< 50	1	< 2	< 0.5	0.65	< 1	12	5	< 0.2	1.34	7	< 1	< 5
213344	< 2	1.3	3	< 0.3	3	264	< 1	58	< 0.01	7.02	2.3	< 50	1	< 2	< 0.5	0.53	< 1	< 2	5	< 0.2	1.13	5	< 1	< 5
213345	5	0.4	2	< 0.3	2	265	2	66	< 0.01	8.66	3.2	< 50	1	< 2	< 0.5	0.59	3	14	4	0.5	0.96	5	< 1	< 5

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Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD- ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD- ICP	MULT INAA / TD- ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
213346	< 2	1.4	2	< 0.3	< 1	244	2	65	< 0.01	8.10	5.4	< 50	< 1	< 2	< 0.5	0.66	5	19	5	< 0.2	1.13	5	< 1	< 5
213347	8	< 0.3	2	< 0.3	2	69	1	54	< 0.01	5.88	6.8	< 50	3	< 2	< 0.5	0.58	< 1	15	5	< 0.2	0.75	< 1	< 1	< 5
213348	4	0.8	2	< 0.3	< 1	85	1	66	< 0.01	7.30	10.1	< 50	4	< 2	< 0.5	0.61	4	14	8	0.4	0.94	2	< 1	< 5
213349	< 2	0.6	3	< 0.3	2	69	1	46	< 0.01	7.73	2.2	< 50	2	< 2	< 0.5	0.47	2	18	4	< 0.2	0.80	2	< 1	< 5
213350	< 2	0.5	2	< 0.3	< 1	74	1	69	< 0.01	7.76	3.0	780	1	< 2	< 0.5	0.45	5	12	5	< 0.2	1.29	3	< 1	< 5
213351	< 2	< 0.3	2	< 0.3	< 1	67	1	47	< 0.01	7.93	2.2	810	< 1	< 2	< 0.5	0.30	3	< 2	3	< 0.2	0.88	3	< 1	< 5
213352	< 2	0.4	2	< 0.3	< 1	70	1	50	< 0.01	7.90	< 0.5	3230	< 1	< 2	< 0.5	0.30	< 1	< 2	6	< 0.2	0.84	2	< 1	< 5
213353	< 2	0.8	2	< 0.3	2	70	< 1	44	< 0.01	7.08	2.8	480	< 1	< 2	< 0.5	0.38	< 1	< 2	3	< 0.2	0.76	< 1	< 1	< 5
213354	< 2	0.4	2	< 0.3	< 1	62	1	43	< 0.01	6.99	5.3	< 50	1	< 2	< 0.5	0.45	5	38	4	< 0.2	0.87	3	< 1	< 5

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Analyte Symbol Unit Symbol	K %	Mg %	Mn ppm	Na %	P %	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sr ppm	Ta ppm	Ti %	Th ppm	U ppm	V ppm	W ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Sn %	Tb ppm	Yb ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	%	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
213295	2.79	0.19	152	2.14	0.080	238	< 0.1	4.2	< 3	37	< 0.5	0.13	421	1250	7	< 1	44	286	572	119	25.2	< 0.01	8.5	14.3
213296	2.55	0.09	114	2.15	0.090	215	< 0.1	2.9	< 3	34	< 0.5	0.09	458	1360	4	< 1	49	311	506	124	26.4	< 0.01	7.1	10.7
213297	1.95	0.00	127	2.15	0.082	349	< 0.1	2.7	< 3	37	< 0.5	0.09	518	1360	4	< 1	55	341	563	166	30.5	< 0.01	8.5	9.4
213298	2.34	0.11	127	1.83	0.076	325	< 0.1	3.6	< 3	39	< 0.5	0.12	386	1940	6	< 1	42	285	539	< 5	< 0.1	< 0.01	7.8	12.8
213299	2.39	0.17	144	1.75	0.075	269	< 0.1	3.9	< 3	33	< 0.5	0.14	381	1880	6	< 1	58	240	432	< 5	< 0.1	< 0.01	6.9	11.0
213300	1.01	0.04	81	1.97	0.044	248	< 0.1	3.4	< 3	12	< 0.5	0.09	312	1110	3	< 1	11	203	403	80	14.4	< 0.01	6.1	9.6
213301	1.70	0.07	247	1.66	0.044	317	< 0.1	3.3	< 3	34	< 0.5	0.05	105	314	< 2	< 1	13	74.0	148	26	6.8	< 0.01	2.8	9.2
213302	1.29	0.03	1510	1.43	0.026	178	0.3	7.8	< 3	18	< 0.5	0.02	104	825	< 2	< 1	17	72.8	137	< 5	< 0.1	< 0.01	2.5	25.6
213303	1.41	0.04	595	1.62	0.073	306	< 0.1	4.5	< 3	24	< 0.5	0.06	180	624	2	< 1	14	116	243	39	8.8	< 0.01	3.7	16.7
213304	4.33	0.17	1120	1.75	0.028	337	< 0.1	5.4	< 3	75	< 0.5	0.06	118	550	3	< 1	88	79.6	156	< 5	< 0.1	< 0.01	< 0.5	16.1
213305	1.72	0.07	1260	1.55	0.035	231	< 0.1	6.5	< 3	38	< 0.5	0.03	123	1230	< 2	< 1	30	88.0	145	< 5	< 0.1	< 0.01	2.5	18.3
213306	2.58	0.09	725	1.60	0.037	235	0.4	5.7	< 3	33	< 0.5	0.06	241	2300	2	< 1	33	135	214	< 5	< 0.1	< 0.01	3.1	11.5
213307	2.08	0.05	945	1.63	0.024	221	0.3	5.2	< 3	41	< 0.5	0.04	83.5	658	< 2	< 1	23	68.0	128	< 5	< 0.1	0.06	1.7	16.7
213308	2.51	0.06	1020	1.50	0.024	236	0.3	5.1	< 3	45	< 0.5	0.03	62.4	966	< 2	< 1	28	59.7	107	< 5	< 0.1	< 0.01	< 0.5	14.1
213309	1.10	0.02	910	1.53	0.030	164	< 0.1	6.7	< 3	13	< 0.5	0.02	74.0	1150	< 2	< 1	8	72.0	129	< 5	< 0.1	< 0.01	< 0.5	22.7
213310	1.26	0.03	1260	1.55	0.027	230	< 0.1	7.3	< 3	24	< 0.5	0.03	79.3	1040	< 2	< 1	12	78.0	138	< 5	< 0.1	< 0.01	< 0.5	21.6
213311	2.37	0.09	831	1.66	0.036	222	0.3	4.7	< 3	49	< 0.5	0.05	76.2	874	< 2	< 1	22	65.0	114	< 5	< 0.1	< 0.01	< 0.5	12.0
213312	1.34	0.06	1250	1.64	0.027	222	0.3	5.7	< 3	38	2.5	0.04	84.9	879	< 2	< 1	25	70.0	127	< 5	< 0.1	< 0.01	< 0.5	18.1
213313	1.68	0.08	113	1.80	0.044	208	< 0.1	2.5	< 3	32	< 0.5	0.09	254	804	4	< 1	15	123	240	< 5	< 0.1	< 0.01	3.4	3.7
213314	2.51	0.08	114	1.89	0.036	258	< 0.1	2.8	< 3	39	< 0.5	0.10	234	725	8	< 1	20	116	224	39	< 0.1	< 0.01	2.6	4.0
213315	2.47	0.13	127	1.68	0.034	254	< 0.1	3.5	< 3	34	< 0.5	0.12	172	466	5	< 1	13	88.0	169	37	5.9	< 0.01	2.3	2.6
213316	2.19	0.07	104	1.83	0.033	252	< 0.1	2.7	< 3	33	2.8	0.10	158	295	4	< 1	10	87.2	168	30	7.7	< 0.01	2.0	3.0
213317	2.57	0.10	114	1.78	0.039	233	< 0.1	3.3	< 3	37	< 0.5	0.10	217	620	3	< 1	17	106	196	< 5	< 0.1	< 0.01	3.1	4.1
213318	1.75	0.05	87	1.95	0.029	201	< 0.1	3.1	< 3	22	< 0.5	0.08	209	551	3	< 1	12	111	216	44	8.2	0.01	2.8	4.0
213319	1.63	0.05	85	1.54	0.031	235	< 0.1	2.2	< 3	33	< 0.5	0.07	160	388	4	< 1	6	129	252	55	10.5	< 0.01	< 0.5	1.2
213320	1.53	0.04	82	1.80	0.055	264	< 0.1	1.7	< 3	36	< 0.5	0.06	337	786	2	< 1	13	214	411	86	18.3	< 0.01	5.1	2.5
213321	2.55	0.05	82	2.06	0.050	217	< 0.1	1.8	< 3	43	< 0.5	0.06	268	584	3	< 1	17	178	354	72	16.3	< 0.01	3.7	2.0
213322	1.88	0.11	111	1.47	0.055	253	< 0.1	2.3	< 3	45	< 0.5	0.11	241	368	7	< 1	14	223	423	120	19.1	< 0.01	3.1	1.8
213323	2.61	0.07	84	1.59	0.052	268	< 0.1	1.9	< 3	48	< 0.5	0.08	249	546	4	< 1	20	197	379	81	16.7	< 0.01	4.0	2.0
213324	5.40	0.22	155	1.59	0.036	208	< 0.1	1.9	< 3	81	< 0.5	0.10	230	535	5	< 1	59	183	337	55	13.0	< 0.01	3.2	1.6
213325	2.59	0.05	66	2.52	0.086	223	< 0.1	2.9	< 3	36	< 0.5	0.06	1350	4010	< 2	19	48	454	< 3	< 5	< 0.1	< 0.01	11.6	8.2
213326	2.62	0.05	55	1.82	0.053	252	0.3	1.7	< 3	41	< 0.5	0.06	260	678	2	< 1	24	161	290	52	11.9	< 0.01	4.0	3.7
213327	2.06	0.18	156	1.87	0.053	213	< 0.1	2.5	< 3	86	< 0.5	0.08	490	668	4	< 1	161	301	605	158	31.5	0.05	6.9	7.6
213328	2.55	0.16	126	1.93	0.064	273	< 0.1	2.1	< 3	98	< 0.5	0.07	381	1120	3	< 1	121	232	435	87	16.1	< 0.01	5.9	4.4
213329	1.65	0.14	113	2.38	0.041	175	0.2	1.9	< 3	98	< 0.5	0.06	315	535	3	< 1	108	206	392	95	19.4	< 0.01	4.9	4.0
213330	2.52	0.21	154	2.12	0.063	249	< 0.1	2.5	< 3	99	< 0.5	0.09	238	634	4	< 1	76	159	294	57	11.4	< 0.01	3.6	2.7
213331	2.04	0.14	139	2.13	0.027	201	0.4	2.0	< 3	66	< 0.5	0.06	44.5	1450	< 2	< 1	38	61.7	83	< 5	< 0.1	< 0.01	< 0.5	3.6
213332	1.94	0.15	135	1.84	0.022	269	< 0.1	2.4	< 3	64	2.9	0.06	25.7	855	2	< 1	29	35.6	< 3	< 5	< 0.1	< 0.01	< 0.5	2.4
213333	2.50	0.14	124	2.41	0.047	227	0.3	2.1	< 3	75	< 0.5	0.06	125	409	3	< 1	57	95.6	183	32	7.4	< 0.01	3.2	7.3
213334	2.19	0.19	162	1.72	0.024	299	< 0.1	2.6	< 3	70	< 0.5	0.10	29.6	876	5	< 1	35	39.5	49	< 5	< 0.1	< 0.01	< 0.5	3.9
213335	3.64	0.10	97	1.85	0.019	266	< 0.1	1.5	5	72	< 0.5	0.04	49.9	346	2	< 1	35	41.7	77	< 5	< 0.1	< 0.01	< 0.5	3.4
213336	2.18	0.16	119	1.87	0.024	294	< 0.1	2.2	< 3	73	< 0.5	0.06	61.2	820	2	< 1	87	57.6	91	< 5	< 0.1	< 0.01	2.1	7.9
213337	2.21	0.24	225	1.45	0.026	335	< 0.1	3.2	< 3	88	< 0.5	0.10	81.1	393	5	< 1	37	59.1	111	22	< 0.1	< 0.01	< 0.5	3.0
213338	2.05	0.24	211	1.56	0.028	283	< 0.1	3.2	< 3	81	< 0.5	0.08	82.2	394	4	< 1	43	61.8	111	23	< 0.1	< 0.01	< 0.5	4.9
213339	2.39	0.21	350	1.53	0.024	263	0.3	3.2	< 3	83	1.9	0.08	79.1	324	6	< 1	49	60.9	117	21	< 0.1	< 0.01	1.4	4.4
213340	2.65	0.27	219	1.55	0.027	302	< 0.1	3.5	< 3	82	< 0.5	0.11	97.1	371	6	< 1	48	70.3	132	23	< 0.1	< 0.01	1.9	3.2
213341	2.36	0.22	470	1.72	0.027	263	< 0.1	3.8	< 3	81	< 0.5	0.07	89.5	410	5	< 1	47	68.8	128	< 5	< 0.1	0.03	< 0.5	4.7
213342	2.78	0.21	742	1.57	0.026	212	< 0.1	4.6	< 3	85	< 0.5	0.06	83.4	313	4	< 1	60	60.8	113	17	3.8	< 0.01	1.4	9.0
213343	3.47	0.29	215	1.72	0.040	307	0.3	3.3	< 3	81	< 0.5	0.13	182	1230	5	< 1	58	139	226	< 5	< 0.1	< 0.01	2.8	2.3
213344	2.59	0.20	138	1.70	0.021	293	< 0.1	2.6	< 3	80	< 0.5	0.08	144	846	4	< 1	48	100	171	< 5	< 0.1	< 0.01	1.6	2.0
213345	2.76	0.23	145	1.87	0.016	301	< 0.1	2.5	< 3	95	< 0.5	0.05	116	698	< 2	< 1	49	74.4	131	< 5	< 0.1	< 0.01	1.7	2.0
213346	2.12	0.23	152																					

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Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
213347	1.36	0.16	127	1.57	0.014	205	< 0.1	2.0	< 3	54	2.9	0.06	31.6	455	9	< 1	23	29.3	41	< 5	< 0.1	< 0.01	< 0.5	1.6
213348	2.18	0.19	162	1.84	0.024	280	0.4	2.5	< 3	71	2.3	0.08	24.6	615	3	< 1	32	29.3	39	< 5	< 0.1	< 0.01	< 0.5	3.1
213349	2.02	0.10	130	1.66	0.016	239	0.4	1.7	< 3	80	2.1	0.06	23.4	964	< 2	< 1	43	36.2	< 3	< 5	< 0.1	< 0.01	1.8	4.0
213350	1.92	0.24	170	1.75	0.018	343	< 0.1	2.7	< 3	60	< 0.5	0.09	35.5	709	4	< 1	46	33.5	81	< 5	< 0.1	< 0.01	< 0.5	6.8
213351	1.51	0.16	107	1.58	0.016	360	< 0.1	1.9	< 3	85	< 0.5	0.05	24.1	463	2	< 1	43	22.3	80	< 5	< 0.1	< 0.01	< 0.5	5.4
213352	3.26	0.17	113	1.62	0.025	283	0.4	2.6	< 3	89	< 0.5	0.07	24.3	535	3	< 1	38	24.2	65	< 5	< 0.1	0.16	< 0.5	6.0
213353	3.36	0.16	104	1.46	0.017	218	< 0.1	1.6	< 3	79	3.4	0.06	23.9	1010	< 2	< 1	36	33.6	61	< 5	< 0.1	< 0.01	< 0.5	6.6
213354	1.97	0.15	115	1.63	0.013	270	< 0.1	3.3	< 3	72	< 0.5	0.05	29.2	979	< 2	< 1	62	33.9	82	< 5	< 0.1	< 0.01	< 0.5	9.4

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
213295	< 0.05	19.6	1040	1.059
213296	< 0.05	21.7	1120	1.000
213297	< 0.05	18.6	1100	1.022
213298	< 0.05	19.7	1750	1.030
213299	< 0.05	22.1	1710	1.030
213300	< 0.05	18.6	883	1.031
213301	1.67	22.4	272	1.008
213302	9.72	26.2	756	1.004
213303	< 0.05	23.1	535	1.018
213304	< 0.05	21.5	450	1.023
213305	3.44	31.1	1090	1.077
213306	< 0.05	22.0	2140	1.004
213307	2.95	23.1	559	1.006
213308	< 0.05	21.4	842	1.028
213309	4.65	22.5	1050	1.018
213310	4.15	30.2	942	1.042
213311	2.08	25.8	740	1.017
213312	3.83	21.3	767	1.020
213313	< 0.05	24.1	731	1.002
213314	< 0.05	20.7	591	1.013
213315	< 0.05	27.8	409	1.031
213316	< 0.05	29.5	267	1.004
213317	< 0.05	30.7	537	1.000
213318	< 0.05	21.4	463	1.001
213319	< 0.05	23.0	338	1.011
213320	< 0.05	28.3	692	1.050
213321	< 0.05	23.9	500	1.000
213322	< 0.05	22.6	316	1.000
213323	< 0.05	23.1	470	1.007
213324	< 0.05	30.0	480	1.008
213325	< 0.05	23.8	2560	1.002
213326	< 0.05	31.5	625	1.004
213327	< 0.05	22.6	732	1.045
213328	< 0.05	23.8	1000	1.026
213329	< 0.05	31.5	485	1.047
213330	< 0.05	29.2	524	1.079
213331	< 0.05	25.3	1280	1.001
213332	< 0.05	23.7	737	1.008
213333	1.39	30.0	344	1.019
213334	< 0.05	29.5	794	1.025
213335	< 0.05	22.3	299	1.007
213336	< 0.05	29.0	710	1.058
213337	< 0.05	26.4	333	1.055
213338	< 0.05	30.3	336	1.008
213339	< 0.05	27.6	291	1.025
213340	< 0.05	25.0	323	1.040
213341	< 0.05	23.8	345	1.027
213342	< 0.05	28.4	286	1.082
213343	< 0.05	24.7	1080	1.038
213344	< 0.05	24.0	732	1.078
213345	< 0.05	29.1	641	1.037
213346	< 0.05	28.4	1720	1.014

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
213347	< 0.05	25.7	378	1.031
213348	< 0.05	26.6	514	1.036
213349	< 0.05	24.5	841	1.027
213350	< 0.05	21.0	554	1.040
213351	< 0.05	22.6	388	1.009
213352	< 0.05	21.4	448	1.000
213353	< 0.05	29.9	926	1.001
213354	< 0.05	20.9	761	1.042

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Quality Control

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
Detection Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	
Analysis Method	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	
GXR-1 Meas		28.9		1150	3.3	18	752	41		740		0.25	2.28												
GXR-1 Cert		31.0		1110	3.30	18.0	730	41.0		760		0.257	3.52												
DH-1a Meas																									
DH-1a Cert																									
DNC-1 Meas		< 0.3		89		< 1	17	247		57		0.06	9.85				< 1	4						7.38	
DNC-1 Cert		0.0270		96.0		0.700	6.30	247		66.0		0.0390	9.69				1.00	0.0200							8.06
GXR-4 Meas		3.1		8450	0.4	301	47	41		72		1.57	5.97				2	16							0.97
GXR-4 Cert		4.00		8520	0.860	310	52.0	42.0		73.0		1.77	7.20				1.90	19.0							1.01
GXR-2 Meas		17.3		78	4.3	2	719	21		552		0.01	7.40				2	< 2							0.77
GXR-2 Cert		17.0		76.0	4.10	2.10	690	21.0		530		0.0313	16.5				1.70	0.690							0.930
SCO-1 Meas		0.3		28	< 0.3	1	28	28		99			7.23				2	< 2							1.90
SCO-1 Cert		0.134		28.7	0.140	1.37	31.0	27.0		103			7.24				1.84	0.370							1.87
GXR-6 Meas		0.3		58	< 0.3	3	92	25		117		< 0.01	8.31				1	3							0.20
GXR-6 Cert		1.30		66.0	1.00	2.40	101	27.0		118		0.0160	17.7				1.40	0.290							0.180
SY-2 Meas																									
SY-2 Cert																									
SY-2 Meas																									
SY-2 Cert																									
OREAS 13P Meas				2370				2160																	
OREAS 13P Cert				2500				2260																	
BL-4a Meas																									
BL-4a Cert																									
DMMAS-103 Meas	515										180			3060	580					71	127		0.7	6.34	
DMMAS-103 Cert	539										166			2950	545					71.0	131		0.700	6.54	
DMMAS-103 Meas	524										180			3070	590					73	128		0.8	6.35	
DMMAS-103 Cert	539										168			2950	545					71.0	131		0.700	6.54	
DMMAS-103 Meas	509										160			2950	560					72	121		0.8	6.20	
DMMAS-103 Cert	539										168			2950	545					71.0	131		0.700	6.54	
213304 Orig		< 0.3		4	< 0.3	4	183	2		35		< 0.01	6.43				1	< 2							0.62
213304 Dup		< 0.3		4	< 0.3	4	202	3		36		< 0.01	6.63				1	< 2							0.64
213318 Orig		3.7		3	< 0.3	7	181	< 1		19		< 0.01	1.57				< 1	< 2							0.45
213318 Dup		3.8		2	< 0.3	7	119	1		19		< 0.01	1.31				< 1	< 2							0.17
213324 Split	< 2	< 0.3	< 5	4	< 0.3	3	317	2	< 20	51	< 50	< 0.01	6.00	3.4	< 50	1	< 2	< 0.5	0.87	< 1	18	3	< 0.2	0.86	
213339 Orig		1.6		3	0.3	2	137	2		61		< 0.01	7.69				< 1	< 2							0.48
213339 Dup		1.5		3	< 0.3	2	138	2		62		< 0.01	7.76				< 1	< 2							0.48
213344 Split	< 2	1.2	< 5	2	< 0.3	3	287	< 1	< 20	61	< 50	< 0.01	8.08	3.7	< 50	1	< 2	< 0.5	0.80	< 1	< 2	4	< 0.2	1.22	
213353 Orig		0.7		2	< 0.3	2	76	< 1		47		< 0.01	7.10				1	< 2							0.38
213353 Dup		0.9		2	< 0.3	1	64	< 1		42		< 0.01	7.06				< 1	< 2							0.38
213354 Split	< 2	< 0.3	< 5	2	< 0.3	< 1	67	< 1	< 20	43	< 50	< 0.01	6.97	5.1	< 50	1	< 2	< 0.5	0.45	3	41	4	< 0.2	0.86	
Method Blank Method																									
Blank																									

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Quality Control

Analyte Symbol	Hf	Hg	Ir	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppm	ppm	ppb	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	5	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Analysis Method	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
GXR-1 Meas				0.05	0.24	900		0.093					305					90						
GXR-1 Cert				0.0500	0.217	852		0.0650					275					80.0						
DH-1a Meas																								
DH-1a Cert																								
DNC-1 Meas				0.19	5.69	1080		0.037					139		0.24			149			18			
DNC-1 Cert				0.190	6.06	1150		0.0370					145		0.287			148			18.0			
GXR-4 Meas				3.86	1.87	146		0.132					209					86			14			
GXR-4 Cert				4.01	1.66	155		0.120					221					87.0			14.0			
GXR-2 Meas				1.40	0.73	923		0.060					145					55			15			
GXR-2 Cert				1.37	0.850	1010		0.105					160					52.0			17.0			
SCO-1 Meas				2.20	1.60	390		0.084					172		0.16			93			23			
SCO-1 Cert				2.30	1.64	410		0.0900					174		0.380			131			26.0			
GXR-6 Meas				1.57	0.40	957		0.037					36					155			9			
GXR-6 Cert				1.87	0.609	1010		0.0350					35.0					186			14.0			
SY-2 Meas																								
SY-2 Cert																								
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas																								
OREAS 13P Cert																								
BL-4a Meas																								
BL-4a Cert																								
DMMAS-103 Meas							0.81			17.2	12.1								10		11.2	16		1.9
DMMAS-103 Cert							0.800			15.9	11.5								10.0		10.9	16.0		2.10
DMMAS-103 Meas							0.79			16.9	12.2								12		12.2	17		2.0
DMMAS-103 Cert							0.800			16.9	11.5								10.0		10.9	16.0		2.10
DMMAS-103 Meas							0.80			16.9	11.7								10		11.8	18		1.9
DMMAS-103 Cert							0.800			16.9	11.5								10.0		10.9	16.0		2.10
213304 Orig				3.39	0.17	1070		0.026					76		0.06			3			92			
213304 Dup				5.28	0.16	1170		0.030					73		0.07			2			83			
213318 Orig				2.45	0.08	91		0.025					29		0.08			3			20			
213318 Dup				1.05	0.03	82		0.032					15		0.08			3			4			
213324 Split	7	< 1	< 5	5.26	0.22	142	1.66	0.032	210	< 0.1	2.1	< 3	81	< 0.5	0.07	219	510	4	< 1	59	181	336	66	13.6
213339 Orig				2.12	0.21	348		0.026					82		0.09			7			49			
213339 Dup				2.65	0.21	351		0.021					83		0.08			4			49			
213344 Split	7	< 1	< 5	1.68	0.22	140	1.66	0.030	290	< 0.1	2.8	< 3	86	< 0.5	0.08	141	860	3	< 1	53	99.0	175	< 5	< 0.1
213353 Orig				3.57	0.17	112		0.019					81		0.06			< 2			37			
213353 Dup				3.15	0.15	96		0.015					76		0.05			< 2			36			
213354 Split	< 1	< 1	< 5	2.18	0.15	100	1.50	0.017	248	< 0.1	2.8	< 3	74	< 0.5	0.05	27.9	868	< 2	< 1	82	30.8	81	< 5	< 0.1
Method Blank Method																								
Blank																								

Quality Control

Analyte Symbol	Sn	Tb	Yb	Lu	Mass	U	Mass
Unit Symbol	%	ppm	ppm	ppm	g	ppm	g
Detection Limit	0.01	0.5	0.2	0.05		0.1	
Analysis Method	INAA	INAA	INAA	INAA	INAA	DNC	DNC
GXR-1 Meas							
CXR-1 Cert							
DH-1a Meas						2650	
DH-1a Cert						2630	
DNC-1 Meas							
DNC-1 Cert							
GXR-4 Meas							
GXR-4 Cert							
GXR-2 Meas							
GXR-2 Cert							
SCO-1 Meas							
SCO-1 Cert							
GXR-6 Meas							
GXR-6 Cert							
SY-2 Meas						289	
SY-2 Cert						284	
SY-2 Meas						281	
SY-2 Cert						284	
OREAS 13P Meas							
OREAS 13P Cert							
BL-4a Meas						1270	
BL-4a Cert						1250	
DMMAS-103 Meas			2.7	0.31			
DMMAS-103 Cert			2.10	0.340			
DMMAS-103 Meas			2.4	0.34			
DMMAS-103 Cert			2.10	0.340			
DMMAS-103 Meas			2.5	0.33			
DMMAS-103 Cert			2.10	0.340			
213304 Orig							
213304 Dup							
213318 Orig							
213318 Dup							
213324 Split	< 0.01	< 0.5	1.9	< 0.05	31.8	495	1.054
213339 Orig							
213339 Dup							
213344 Split	< 0.01	1.4	2.4	< 0.05	22.3	741	1.023
213353 Orig							
213353 Dup							
213354 Split	< 0.01	1.2	8.7	< 0.05	24.2	771	1.019
Method Blank Method						< 0.1	1.000
Blank							

Quality Analysis ...



Innovative Technologies

Date Submitted: 05-Sep-07
Invoice No.: A07-4070
Invoice Date: 17-Oct-07
Your Reference: 180399 U GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

31 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT **A07-4070**

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Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

Note: U interference on Ba,Ir,La,Ce,Sm,Nd,Lu.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A07-4070

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Jr
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD- ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD- ICP	MULT INAA / TD- ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
213355	< 2	0.4	5	< 0.3	< 1	73	3	43	< 0.01	7.83	< 0.5	610	1	< 2	< 0.5	0.45	< 1	11	3	< 0.2	0.78	5	< 1	< 5
213356	< 2	< 0.3	2	< 0.3	1	58	3	37	< 0.01	8.25	< 0.5	< 50	< 1	< 2	< 0.5	0.45	< 1	10	4	< 0.2	0.69	< 1	< 1	< 5
213357	< 2	0.3	2	< 0.3	2	71	3	35	< 0.01	7.78	< 0.5	< 50	1	< 2	< 0.5	0.49	< 1	15	4	< 0.2	0.65	4	< 1	< 5
213358	< 2	0.3	1	< 0.3	3	54	3	40	< 0.01	6.72	< 0.5	< 50	2	< 2	< 0.5	0.94	< 1	13	3	< 0.2	0.82	4	< 1	< 5
213359	< 2	< 0.3	1	< 0.3	1	88	3	54	< 0.01	8.24	< 0.5	650	2	< 2	< 0.5	0.78	< 1	< 2	5	0.8	1.01	< 1	< 1	< 5
213360	< 2	< 0.3	2	< 0.3	2	66	3	54	< 0.01	7.87	< 0.5	560	2	< 2	< 0.5	0.91	4	11	3	< 0.2	1.05	< 1	< 1	< 5
213361	< 2	< 0.3	2	< 0.3	2	77	4	78	< 0.01	7.93	3.5	570	2	< 2	< 0.5	0.78	3	8	6	1.5	1.43	3	< 1	< 5
213362	< 2	< 0.3	2	< 0.3	4	108	5	105	< 0.01	6.95	< 0.5	320	1	< 2	< 0.5	0.65	3	13	5	0.5	1.96	4	< 1	< 5
213363	4	< 0.3	13	< 0.3	3	80	6	88	< 0.01	8.07	4.3	400	1	< 2	< 0.5	0.88	< 1	< 2	4	0.4	1.26	2	< 1	< 5
213364	< 2	< 0.3	1	< 0.3	9	116	8	103	< 0.01	7.33	2.0	520	1	< 2	< 0.5	0.91	4	14	5	< 0.2	1.93	3	< 1	< 5
213365	< 2	0.4	5	< 0.3	2	54	5	40	< 0.01	7.93	4.0	600	1	< 2	< 0.5	0.52	2	< 2	3	< 0.2	0.78	5	< 1	< 5
213366	< 2	0.3	6	< 0.3	< 1	59	2	50	0.01	7.84	2.2	880	< 1	< 2	< 0.5	0.29	< 1	25	6	< 0.2	0.98	7	< 1	< 5
213367	< 2	0.5	2	< 0.3	11	436	3	105	< 0.01	7.56	< 0.5	< 50	1	< 2	< 0.5	1.00	< 1	19	6	< 0.2	1.93	8	< 1	< 5
213368	< 2	0.6	1	< 0.3	9	509	4	126	< 0.01	6.86	< 0.5	4280	1	< 2	< 0.5	1.00	6	< 2	5	< 0.2	2.67	11	< 1	< 5
213369	< 2	0.5	1	< 0.3	10	454	3	112	< 0.01	7.56	< 0.5	< 50	1	< 2	< 0.5	0.89	< 1	< 2	6	< 0.2	2.24	10	< 1	< 5
213370	< 2	0.8	26	< 0.3	< 1	52	75	218	0.10	10.1	< 0.5	2090	2	< 2	< 0.5	1.59	20	168	11	< 0.2	5.04	4	< 1	< 5
213371	< 2	1.9	12	< 0.3	6	525	9	154	0.02	8.51	< 0.5	< 50	2	< 2	< 0.5	1.94	10	15	7	< 0.2	2.85	37	< 1	< 5
213372	< 2	0.9	18	< 0.3	3	339	18	181	0.05	8.58	< 0.5	< 50	2	< 2	< 0.5	1.60	10	58	7	< 0.2	3.35	25	< 1	< 5
213373	< 2	2.5	9	< 0.3	22	524	8	125	0.01	8.13	< 0.5	< 50	2	< 2	< 0.5	2.03	6	< 2	4	< 0.2	2.24	29	< 1	< 5
213374	< 2	1.9	8	< 0.3	11	507	7	127	0.01	8.00	< 0.5	5320	2	< 2	< 0.5	1.92	< 1	22	< 1	< 0.2	2.52	31	< 1	< 5
213375	< 2	0.6	34	< 0.3	2	51	87	282	0.14	9.97	< 0.5	520	2	< 2	< 0.5	1.49	24	209	10	0.8	6.38	5	< 1	< 5
213376	< 2	1.0	5	< 0.3	7	508	8	117	0.02	6.93	< 0.5	< 50	2	< 2	< 0.5	1.52	6	< 2	4	< 0.2	2.18	14	< 1	< 5
213377	< 2	< 0.3	2	< 0.3	2	183	7	53	< 0.01	8.43	< 0.5	1050	2	< 2	< 0.5	1.20	10	27	3	< 0.2	1.24	21	< 1	< 5
213378	< 2	< 0.3	13	< 0.3	1	267	21	144	0.04	8.54	< 0.5	3330	2	< 2	< 0.5	1.62	14	68	5	< 0.2	3.11	17	< 1	< 5
213379	< 2	< 0.3	8	< 0.3	2	386	11	103	0.02	8.38	< 0.5	4370	3	< 2	< 0.5	1.83	8	48	5	< 0.2	2.40	26	< 1	< 5
213380	< 2	1.8	30	< 0.3	5	503	11	72	0.05	8.22	< 0.5	690	2	< 2	< 0.5	1.17	< 1	< 2	7	< 0.2	2.43	48	< 1	< 5
213381	< 2	2.9	31	< 0.3	4	445	9	66	0.07	8.70	< 0.5	690	2	< 2	< 0.5	1.46	8	16	5	< 0.2	2.39	44	< 1	< 5
213382	< 2	1.4	26	< 0.3	4	373	9	63	0.03	8.33	3.4	850	2	< 2	< 0.5	1.15	5	20	5	< 0.2	2.49	37	< 1	< 5
213383	< 2	1.3	2	< 0.3	9	432	2	18	< 0.01	7.01	< 0.5	3230	2	< 2	< 0.5	2.15	6	< 2	< 1	< 0.2	0.50	29	< 1	< 5
213384	< 2	1.5	2	< 0.3	5	269	3	10	< 0.01	6.43	< 0.5	< 50	2	< 2	< 0.5	2.05	5	27	< 1	< 0.2	0.41	29	< 1	< 5
213385	< 2	1.3	2	< 0.3	9	390	< 1	14	< 0.01	6.71	< 0.5	< 50	2	< 2	< 0.5	2.01	6	27	< 1	< 0.2	0.44	29	< 1	< 5

Activation Laboratories Ltd. Report: A07-4070

Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
213355	3.73	0.18	111	1.57	0.019	301	0.3	2.0	< 3	107	< 0.5	0.14	54.2	266	6	< 1	21	48.5	97	49	6.0	< 0.01	1.2	2.1
213356	3.69	0.17	107	1.72	0.016	353	< 0.1	1.6	< 3	115	< 0.5	0.13	22.6	232	4	< 1	12	23.5	51	25	< 0.1	< 0.01	< 0.5	1.1
213357	2.32	0.15	103	1.83	0.019	326	< 0.1	1.8	< 3	106	< 0.5	0.10	65.7	118	3	< 1	24	48.6	115	54	6.6	< 0.01	< 0.5	2.1
213358	2.18	0.20	138	2.13	0.016	203	< 0.1	2.2	< 3	85	< 0.5	0.14	82.1	109	5	< 1	20	47.0	109	59	6.1	< 0.01	< 0.5	1.6
213359	2.51	0.23	139	2.07	0.021	335	< 0.1	3.1	< 3	100	< 0.5	0.13	103	216	5	< 1	47	69.3	176	91	10.4	0.07	< 0.5	6.8
213360	1.55	0.24	150	2.13	0.014	311	< 0.1	2.9	< 3	100	< 0.5	0.17	60.8	173	6	8	21	46.3	109	58	6.8	< 0.01	< 0.5	1.8
213361	1.29	0.34	210	1.91	0.016	273	0.1	3.8	< 3	102	2.7	0.18	64.2	79.7	6	< 1	23	44.4	107	47	6.0	< 0.01	1.3	1.9
213362	2.24	0.45	284	1.67	0.018	278	0.3	5.4	< 3	82	2.2	0.28	97.5	94.1	9	< 1	27	58.6	143	74	8.3	< 0.01	< 0.5	1.6
213363	2.32	0.33	184	1.90	0.015	285	0.2	3.2	< 3	106	< 0.5	0.18	48.8	35.0	8	< 1	16	31.1	71	44	4.0	< 0.01	< 0.5	0.8
213364	1.79	0.45	260	1.80	0.018	249	0.3	5.3	< 3	87	< 0.5	0.24	91.8	133	8	< 1	31	58.5	144	85	8.3	< 0.01	< 0.5	1.8
213365	2.65	0.16	120	1.77	0.019	272	0.2	1.9	< 3	103	< 0.5	0.12	45.6	130	3	< 1	21	39.3	100	39	5.5	< 0.01	< 0.5	3.4
213366	5.83	0.21	138	1.43	0.034	370	< 0.1	2.5	< 3	104	< 0.5	0.16	54.3	149	5	< 1	22	53.9	122	46	7.8	< 0.01	1.5	3.7
213367	3.65	0.46	263	1.99	0.058	275	< 0.1	5.5	< 3	91	< 0.5	0.35	489	396	11	< 1	125	281	569	67	44.1	< 0.01	5.5	8.1
213368	1.76	0.52	304	2.00	0.055	204	< 0.1	7.2	< 3	78	3.2	0.36	541	649	11	< 1	134	330	866	88	52.7	< 0.01	5.9	8.8
213369	2.06	0.48	264	1.84	0.059	281	< 0.1	5.7	< 3	93	1.5	0.36	459	373	11	< 1	128	281	589	177	44.1	< 0.01	4.6	7.8
213370	2.20	1.28	850	2.29	0.049	429	< 0.1	14.7	< 3	184	< 0.5	0.50	34.8	292	100	< 1	21	52.8	94	< 5	6.9	< 0.01	< 0.5	3.6
213371	2.03	0.63	367	2.83	0.019	225	< 0.1	7.9	< 3	97	< 0.5	0.46	416	1040	16	< 1	120	295	524	69	41.9	< 0.01	< 0.5	7.7
213372	1.59	0.72	657	2.29	0.018	278	< 0.1	10.4	< 3	105	< 0.5	0.42	311	792	32	< 1	91	230	445	87	33.8	< 0.01	3.1	8.9
213373	1.58	0.54	337	2.56	0.048	171	< 0.1	6.4	< 3	102	< 0.5	0.47	429	829	16	< 1	137	295	517	63	44.7	< 0.01	< 0.5	6.6
213374	1.77	0.56	332	2.74	0.036	163	< 0.1	7.1	< 3	92	< 0.5	0.46	443	881	15	< 1	128	307	575	96	44.5	< 0.01	4.7	8.0
213375	3.93	1.38	1050	2.15	0.056	512	< 0.1	17.0	< 3	187	< 0.5	0.84	35.9	316	150	< 1	23	59.7	110	< 5	7.2	0.04	< 0.5	4.9
213376	2.01	0.51	333	2.17	0.041	130	< 0.1	6.3	< 3	81	< 0.5	0.36	411	796	16	< 1	128	289	507	95	42.2	< 0.01	4.8	6.5
213377	3.26	0.27	157	2.21	0.005	299	< 0.1	3.1	< 3	114	< 0.5	0.16	122	323	9	< 1	62	92.4	200	62	15.5	< 0.01	< 0.5	10.8
213378	2.55	0.70	416	2.56	0.014	227	< 0.1	8.0	< 3	105	4.1	0.24	219	479	21	< 1	82	176	357	76	27.1	< 0.01	3.2	9.4
213379	2.35	0.51	298	2.76	0.016	177	< 0.1	6.2	< 3	105	< 0.5	0.26	318	612	13	< 1	110	246	496	164	40.5	< 0.01	5.7	10.9
213380	2.49	0.44	221	2.21	0.003	249	< 0.1	5.4	< 3	95	< 0.5	0.38	260	316	15	< 1	54	144	316	129	23.8	< 0.01	< 0.5	4.7
213381	3.04	0.40	212	2.58	0.031	229	< 0.1	4.8	< 3	103	4.4	0.35	213	221	15	< 1	47	124	285	122	19.8	< 0.01	< 0.5	3.7
213382	3.51	0.38	187	2.46	0.006	315	< 0.1	5.3	< 3	99	< 0.5	0.29	213	179	12	< 1	44	133	295	120	20.5	< 0.01	2.9	4.9
213383	0.88	0.10	167	2.51	0.020	< 15	< 0.1	1.2	< 3	88	5.9	0.06	327	477	2	< 1	85	241	507	191	37.2	< 0.01	3.5	6.7
213384	0.68	0.06	113	2.57	0.014	< 15	< 0.1	0.9	< 3	79	< 0.5	0.03	196	351	< 2	< 1	49	158	370	156	25.7	< 0.01	3.2	5.5
213385	0.93	0.08	99	2.46	0.025	< 15	< 0.1	0.9	< 3	84	< 0.5	0.05	316	397	2	< 1	71	244	513	152	36.8	< 0.01	4.7	5.4

Activation Laboratories Ltd. Report: A07-4070

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
213355	< 0.05	21.8	260	1.045
213356	< 0.05	19.6	220	1.060
213357	< 0.05	14.9	100	1.074
213358	< 0.05	23.7	111	1.045
213359	0.89	16.6	204	1.076
213360	< 0.05	15.0	159	1.008
213361	< 0.05	18.1	76.2	1.002
213362	< 0.05	19.7	91.8	1.081
213363	< 0.05	23.7	32.0	1.016
213364	< 0.05	19.6	127	1.028
213365	< 0.05	16.8	121	1.055
213366	< 0.05	18.7	136	1.043
213367	< 0.05	19.8	406	1.079
213368	< 0.05	15.9	658	1.027
213369	< 0.05	17.7	397	1.071
213370	< 0.05	19.0	281	1.014
213371	< 0.05	19.9	1110	1.021
213372	< 0.05	18.0	817	1.001
213373	< 0.05	22.4	994	1.027
213374	< 0.05	17.7	902	1.055
213375	< 0.05	20.7	302	1.073
213376	< 0.05	23.8	919	1.060
213377	< 0.05	18.5	325	1.039
213378	< 0.05	20.9	502	1.029
213379	< 0.05	15.1	608	1.045
213380	< 0.05	17.4	342	1.023
213381	< 0.05	17.4	224	1.031
213382	< 0.05	19.5	175	1.022
213383	< 0.05	19.7	532	1.016
213384	< 0.05	18.5	353	1.061
213385	< 0.05	19.7	423	1.032

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Quality Control

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
Detection Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	
Analysis Method	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	
GXR-1 Meas		30.7		1160	4.0	14	749	47			766	0.25	2.57				1	1380						0.99	
GXR-1 Cert		31.0		1110	3.30	18.0	730	41.0			760	0.257	3.52				1.22	1380						0.960	
DH-1a Meas																									
DH-1a Cert																									
DNC-1 Meas		< 0.3		88		< 1	11	238		51		0.05	6.49				< 1	< 2						7.72	
DNC-1 Cert		0.0270		96.0		0.700	6.30	247		66.0		0.0390	9.69				1.00	0.0200						8.06	
GXR-4 Meas		3.8		6470	0.9	310	53	45		77		1.81	7.08				3	25						1.27	
GXR-4 Cert		4.00		6520	0.860	310	52.0	42.0		73.0		1.77	7.20				1.90	19.0						1.01	
GXR-2 Meas		17.5		74	3.3	< 1	668	19		519		0.01	11.7				2	< 2						0.98	
GXR-2 Cert		17.0		76.0	4.10	2.10	690	21.0		530		0.0313	16.5				1.70	0.690						0.930	
SDC-1 Meas		0.5		29	< 0.3	< 1	22	39		94		0.06	6.07				3	< 2						0.99	
SDC-1 Cert		0.0410		30.0	0.0800	0.250	25.0	38.0		103		0.0650	8.34				3.00	2.60						1.00	
SCO-1 Meas		0.4		29	0.3	< 1	36	33		103			8.14				2	< 2						2.33	
SCO-1 Cert		0.134		28.7	0.140	1.37	31.0	27.0		103			7.24				1.84	0.370						1.87	
GXR-6 Meas		0.4		65	1.1	2	104	28		133		< 0.01	10.6				1	< 2						0.21	
GXR-6 Cert		1.30		66.0	1.00	2.40	101	27.0		118		0.0160	17.7				1.40	0.290						0.180	
SY-2 Meas																									
SY-2 Cert																									
OREAS 13P Meas				2660				2180																	
OREAS 13P Cert				2500				2260																	
BL-4a Meas																									
BL-4a Cert																									
DMMAS-104 Meas	259									330			1640	840					45	90			1.0	5.73	
DMMAS-104 Cert	229									96.2			1570	850					48.8	95.1			1.2	5.61	
DMMAS-104 Meas	232									< 50			1620	850					47	98			1.3	5.68	
DMMAS-104 Cert	229									96.2			1570	850					48.8	95.1			1.2	5.61	
DMMAS-104 Meas	245									< 50			1560	820					45	89			1.4	5.66	
DMMAS-104 Cert	229									96.2			1570	850					48.8	95.1			1.2	5.61	
213367 Orig		0.5		2	< 0.3	12	450	4		109		< 0.01	7.99				1	< 2						1.05	
213367 Dup		0.4		2	< 0.3	10	422	3		102		< 0.01	7.13				1	< 2						0.94	
213384 Split	< 2	1.3	< 5	3	< 0.3	5	272	2	< 20	10	< 50	< 0.01	6.49	< 0.5	< 50	2	< 2	< 0.5	2.05	5	22	< 1	< 0.2	0.46	
213385 Split	< 2	0.8	< 5	2	< 0.3	11	383	2	< 20	15	< 50	< 0.01	6.78	< 0.5	< 50	2	< 2	< 0.5	2.00	5	25	< 1	< 0.2	0.49	
Method Blank Method		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01				< 1	< 2						< 0.01	
Method Blank Method																									
Method Blank Method																									

Activation Laboratories Ltd. Report: A07-4070

Quality Control

Analyte Symbol	Hf	Hg	Ir	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppm	ppm	ppb	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	5	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Analysis Method	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
GXR-1 Meas				0.06	0.28	939		0.065					308											
GXR-1 Cert				0.0500	0.217	852		0.0650										98						32
DH-1a Meas																		80.0						32.0
DH-1a Cert																								
DNC-1 Meas				0.16		1040		0.025					122		0.41			144			10			
DNC-1 Cert				0.190		1150		0.0370					145		0.287			148			18.0			
GXR-4 Meas				5.17	1.38	166		0.140					226					98			16			
GXR-4 Cert				4.01	1.66	155		0.120					221					87.0			14.0			
GXR-2 Meas				1.25	0.87	911		0.053					154					46			15			
GXR-2 Cert				1.37	0.850	1010		0.105					160					52.0			17.0			
SDC-1 Meas				1.88	0.93	879		0.062					147		0.97			100			27			
SDC-1 Cert				2.72	1.02	883		0.0690					193		0.606			102			40.0			
SCO-1 Meas				3.03	1.32	423		0.092					177		0.48			131			22			
SCO-1 Cert				2.30	1.64	410		0.0900					174		0.380			131			26.0			
GXR-6 Meas				1.69	0.62	1130		0.030					38					105			12			
GXR-6 Cert				1.87	0.609	1010		0.0350					35.0					186			14.0			
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas																								
OREAS 13P Cert																								
BL-4a Meas																								
BL-4a Cert																								
DMMAS-104 Meas							3.30			6.2	14.4					8.0	71.6		5		38.4	61	16	4.9
DMMAS-104 Cert							3.43			6.2	14.1					8.3	71.9		6		36.6	62.9	18.8	4.3
DMMAS-104 Meas							3.44			6.5	14.5					8.2	70.4		6		36.8	64	15	4.6
DMMAS-104 Cert							3.43			6.2	14.1					8.3	71.9		6		36.6	62.9	18.8	4.3
DMMAS-104 Meas							3.25			6.0	14.5					7.9	71.1		5		36.6	65	17	4.8
DMMAS-104 Cert							3.43			6.2	14.1					8.3	71.9		6		36.6	62.9	18.8	4.3
213367 Orig				4.80	0.47	277		0.060					94		0.40			13			127			
213367 Dup				2.51	0.44	248		0.056					87		0.29			9			123			
213384 Split	34	< 1	< 5	0.67	0.06	113	2.64	0.008	< 15	< 0.1	1.0	< 3	80	< 0.5	0.03	194	372	< 2	< 1	50	189	373	142	25.9
213385 Split	29	< 1	< 5	0.93	0.08	85	2.40	0.009	< 15	< 0.1	1.0	< 3	84	< 0.5	0.05	119	405	2	< 1	72	247	514	150	37.3
Method Blank Method				< 0.01	< 0.01	< 1		< 0.001					< 1		< 0.01			< 2			< 1			
Method Blank Method																								
Method Blank Method																								
Blank																								

Quality Control

Analyte Symbol	Sn	Tb	Yb	Lu	Mass	U	Mass
Unit Symbol	%	ppm	ppm	ppm	g	ppm	g
Detection Limit	0.01	0.5	0.2	0.05		0.1	
Analysis Method	INAA	INAA	INAA	INAA	INAA	DNC	DNC

GXR-1 Meas							
GXR-1 Cert							
DH-1a Meas						2630	
DH-1a Cert						2630	
DNC-1 Meas							
DNC-1 Cert							
GXR-4 Meas							
GXR-4 Cert							
GXR-2 Meas							
GXR-2 Cert							
SDC-1 Meas							
SDC-1 Cert							
SCO-1 Meas							
SCO-1 Cert							
GXR-6 Meas							
GXR-6 Cert							
SY-2 Meas						291	
SY-2 Cert						284	
OREAS 13P Meas							
OREAS 13P Cert							
BL-4a Meas						1260	
BL-4a Cert						1250	
DMMAS-104 Meas			3.3	0.54			
DMMAS-104 Cert			3.0	0.4			
DMMAS-104 Meas			3.1	0.50			
DMMAS-104 Cert			3.0	0.4			
DMMAS-104 Meas			3.2	0.54			
DMMAS-104 Cert			3.0	0.4			
213367 Ong							
213367 Dup							
213384 Split	< 0.01	2.9	5.5	< 0.05	14.6	353	1.049
213385 Split	< 0.01	4.0	6.4	< 0.05	18.0	419	1.058
Method Blank Method							
Blank							
Method Blank Method						< 0.1	1.000
Blank							

Quality Analysis ...



Innovative Technologies

Date Submitted: 18-Sep-07
Invoice No.: A07-4433 (i)
Invoice Date: 11-Oct-07
Your Reference: 180399 U GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

25 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT A07-4433 (i)

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

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Analyte Symbol	U	Mass
Unit Symbol	ppm	g
Detection Limit	0.1	
Analysis Method	DNC	DNC
213386	895	1.069
213387	818	1.099
213388	726	1.074
213389	1210	1.009
213390	935	1.096
213391	330	1.068
213392	415	1.037
213393	136	1.017
213394	12.6	1.046
213395	42.9	1.083
213396	16.0	1.075
213397	14.1	1.046
213398	733	1.060
213400	646	1.077
213401	715	1.090
213402	2110	1.011
213403	556	1.027
213404	2490	1.058
213405	1790	1.016
213406	74.5	1.070
213407	243	1.062
213408	78.2	1.014
213409	358	1.037
213399 remilt	632	1.041

Quality Control

Analyte Symbol	U	Mass
Unit Symbol	ppm	g
Detection Limit	0.1	
Analysis Method	DNC	DNC
DH-1a Meas	2650	
DH-1a Cert	2630	
SY-2 Meas	289	
SY-2 Cert	284	
SY-2 Meas	283	
SY-2 Cert	284	
BL-4a Meas	1260	
BL-4a Cert	1250	
213409 Split	360	1.083
Method Blank Method	< 0.1	1.000
Blank		

Activation Laboratories Ltd. Work Order A07-4433 Report A07-4433

Sample ID	Au ppb	As ppm	Ba* ppm	Br ppm	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir* ppb	Na %	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Sr %	Ta ppm	Th ppm	U ppm	W ppm	La* ppm	Ce* ppm	Nd* ppm
213386	-2	7.1	-210	-0.5	4	30	5	1.39	52	-5	-5	2.95	150	-0.2	7.1	-3	-0.20	-0.05	-0.5	298	830	-4	296	570	270
213387	-2	-0.8	-50	-0.5	-1	14	7	1.01	34	-1	-5	2.94	81	-0.1	5.0	-3	-0.20	-0.05	-0.5	364	910	-1	344	653	198
213388	-2	2.9	-210	-0.5	18	24	4	1.26	46	-5	-5	2.92	130	0.6	6.5	-3	-0.20	-0.05	-0.5	329	670	-4	334	640	300
213389	-2	9.9	1620	-0.5	19	52	5	1.44	99	-10	-5	3.27	-42	-0.3	9.0	-3	-0.10	-0.05	-3.0	504	1170	-7	405	693	333
213390	-2	8.6	-50	-0.5	-1	7	7	1.62	66	-1	-5	2.70	205	0.8	8.1	-3	-0.01	-0.05	-0.5	334	1022	-1	275	543	131
213391	-2	-0.5	-50	-0.5	8	8	10	2.42	26	-1	-5	1.73	354	-0.1	8.9	-3	-0.01	-0.05	-0.5	216	361	-1	190	388	111
213392	-2	4.0	-50	-0.5	6	12	9	1.35	43	-1	-5	2.15	260	-0.1	5.3	-3	-0.20	-0.05	-0.5	197	431	-1	162	318	83
213393	-2	1.9	286	-0.5	-1	-5	15	1.05	1	-1	-5	1.46	425	-0.1	2.5	-3	-0.01	-0.05	-0.5	24.8	155	-1	26.4	46	-5
213394	6	2.6	-50	-0.5	-1	-5	15	1.28	-1	-1	-5	1.43	410	0.3	3.4	-3	-0.01	-0.05	-0.5	7.3	15.4	-1	6.5	13	-5
213395	-2	-0.5	132	-0.5	2	-5	8	0.91	-1	-1	-5	1.58	344	0.2	2.1	-3	-0.01	-0.05	-0.5	6.7	49.6	2	7.4	10	-5
213396	-2	-0.5	-50	-0.5	1	12	22	1.49	-1	-1	-5	1.36	389	0.6	4.4	-3	-0.01	-0.05	-0.5	8.1	18.8	2	6.7	13	-5
213397	-2	-0.5	308	-0.5	-1	-5	10	0.61	-1	-1	-6	1.75	460	-0.1	1.4	-3	-0.01	-0.05	-0.5	6.8	16.5	-1	7.3	13	-5
213398	-3	-0.5	-50	-0.5	4	6	6	1.12	41	-1	-6	2.67	243	0.4	5.9	-3	-0.01	-0.05	-0.5	228	840	-1	174	348	75
213399 remill	17	3.3	-50	-0.5	-1	-5	5	0.87	19	-1	-5	2.37	214	-0.1	3.1	-3	-0.01	-0.05	2.2	166	616	13	142	276	67
213400	-2	-0.5	-50	-0.5	5	9	6	1.03	22	-1	-5	2.62	252	-0.1	3.9	-3	-0.01	-0.05	-0.5	201	744	-1	166	322	75
213401	-2	-0.5	-50	-0.5	6	15	3	1.07	36	-1	-5	2.48	213	-0.1	4.8	-3	-0.20	-0.05	-0.5	215	787	-1	177	348	81
213402	-30	11.3	1350	-0.5	11	83	4	2.50	48	-10	-20	2.07	225	-0.6	13.5	-3	-0.20	-0.20	-3.0	825	2200	-10	735	1425	638
213403	18	-0.5	-50	-0.5	6	9	4	1.50	11	-1	-5	1.65	384	-0.1	6.2	-3	-0.01	-0.05	-0.5	303	667	-1	245	491	132
213404	-30	-5.0	-450	-0.5	-6	75	-2	2.50	83	-10	-20	2.23	225	-0.5	15.0	-3	-0.20	-0.20	-3.0	750	2400	-10	638	1200	525
213405	-20	-5.0	350	-0.5	-6	-20	-2	1.96	39	-10	-20	2.30	180	-0.3	10.7	-3	-0.20	-0.20	5.2	746	1710	-10	648	1066	517
213406	-2	-0.5	-50	-0.5	25	-5	4	1.14	3	-1	-5	1.96	360	-0.1	2.8	-3	-0.01	-0.05	-0.5	71.3	92.1	-1	55.8	120	32
213407	-2	-0.5	-50	-0.5	5	6	2	1.01	28	-1	-5	2.34	262	-0.1	3.6	-3	-0.01	-0.05	-0.5	147	303	-1	94.6	206	55
213408	-2	2.2	-50	-0.5	5	-5	3	0.99	4	-1	-5	1.93	299	-0.1	2.6	-3	-0.01	-0.05	-0.5	66.2	100	-1	50.6	108	32
213409	-2	-0.5	-50	-0.5	6	-5	3	0.95	51	-1	-5	2.47	223	-0.1	4.4	-3	-0.01	-0.05	-0.5	220	409	-1	123	297	72
213409 Split PULP DUP	-2	-0.5	-50	-0.5	6	-5	3	0.96	51	-1	-5	2.48	228	-0.1	4.4	-3	-0.01	-0.05	-0.5	227	409	-1	124	303	73
DMMAS-104	220	1540	924	-0.5	46	103	-1	5.65	6	-1	-5	3.16	-15	6.4	14.5	-3	-0.01	-0.05	-0.5	7.7	69.7	5	37.3	64	20
DMMAS-104	230	1558	902	-0.5	44	95	-1	5.63	6	-1	-5	3.58	-15	6.8	14.6	-3	-0.01	-0.05	-0.5	8.0	72.2	5	40.2	66	20
DMMAS104 Accepted	229	1570.0	850		49	95		5.61				3.43		6.2	14.1					8.3	71.9	6	36.6	63	19

* U interference

Detection limits are elevated due to high concentration of U.

Activation Laboratories Ltd. Work Order A07-4433 Report A07-4433

Sample ID	Sm*	Eu	Tb	Yb	Lu	Mass
	ppm	ppm	ppm	ppm	ppm	g
213386	38.0	0.2	7.3	40.7	7.38	21.51
213387	33.6	1.9	5.5	18.6	5.09	17.41
213388	45.0	-0.3	8.9	38.8	6.95	22.12
213389	53.1	-0.5	9.0	55.0	10.2	19.28
213390	23.5	3.7	6.4	44.6	9.80	17.12
213391	23.9	-0.2	4.8	31.7	6.57	18.65
213392	18.2	-0.2	4.0	24.9	5.31	21.26
213393	-0.1	-0.2	1.0	3.6	0.73	16.28
213394	0.8	0.3	-0.5	2.2	0.36	17.60
213395	-0.1	0.2	-0.5	1.8	0.33	22.42
213396	0.8	-0.2	-0.5	1.8	0.32	21.41
213397	0.8	0.3	-0.5	1.2	0.26	17.78
213398	18.4	-0.2	8.8	65.6	12.8	17.13
213399 remill	12.4	-0.2	4.5	22.3	4.38	21.43
213400	16.0	1.5	4.6	24.6	5.48	16.78
213401	18.0	1.8	6.1	43.6	8.94	15.74
213402	90.0	-0.8	22.5	90.0	17.9	17.74
213403	28.4	-0.2	6.2	28.7	6.23	16.05
213404	72.0	-0.8	20.3	125	23.4	19.59
213405	90.2	-0.6	19.7	77.9	14.2	16.01
213406	9.2	-0.2	2.2	10.3	2.10	16.08
213407	16.2	-0.2	8.5	58.6	10.4	18.56
213408	8.4	-0.2	3.2	19.7	3.28	17.95
213409	25.0	-0.2	14.0	108	18.3	17.99
213409 Split PULP DUP	26.4	-0.2	15.0	114	18.8	16.97
DMMAS-104	3.9	1.4	-0.5	2.7	0.52	20.17
DMMAS-104	4.2	1.5	-0.5	2.9	0.48	20.21
DMMAS104 Accepted	4.3	1.2		3.0	0.40	

Activation Laboratories Ltd. Work Order No. A07-4433 Report No. A07-4433B

Near Total Digestion Analysis Code:1H

Sample	Ag ppm	Cd ppm	Cu ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm	Al %	Be ppm	Bi ppm	Ca %	K %	Mg %	P %	Ti %	V ppm	S %	Sr ppm	Y ppm
213386	2.6	< 0.3	5	1550	11	3	548	25	8.5	3	< 2	1.63	1.69	0.11	0.019	0.02	< 2	< 0.01	63	233
213387	1.3	< 0.3	4	882	12	< 1	531	31	7.82	3	< 2	1.66	1.25	0.09	0.026	0.03	< 2	< 0.01	59	196
213388	4.4	0.4	4	1450	13	< 1	588	19	8.91	3	< 2	1.63	1.97	0.07	0.051	0.05	4	< 0.01	67	243
213389	11.0	0.4	8	1770	15	< 1	871	20	8.8	3	< 2	1.66	1.96	0.08	0.065	0.01	< 2	< 0.01	67	322
213390	8.6	< 0.3	4	1760	15	< 1	728	27	8.85	3	< 2	1.38	2.16	0.09	0.05	0.02	< 2	< 0.01	66	250
213391	0.8	< 0.3	5	1080	6	1	340	106	7.74	2	< 2	0.72	1.92	0.31	0.023	0.16	4	< 0.01	57	168
213392	4.3	< 0.3	4	745	5	2	397	54	7.83	2	< 2	0.84	1.62	0.15	0.031	0.08	3	< 0.01	60	153
213393	< 0.3	< 0.3	2	111	< 1	< 1	71	52	7.12	< 1	< 2	0.24	1.63	0.13	0.017	0.07	< 2	< 0.01	56	29
213394	< 0.3	< 0.3	1	133	1	1	58	70	7.04	< 1	< 2	0.26	3.17	0.17	0.011	0.05	< 2	< 0.01	55	22
213395	< 0.3	< 0.3	3	102	2	1	51	47	6.99	< 1	< 2	0.34	1.82	0.11	0.015	0.06	< 2	< 0.01	57	14
213396	< 0.3	< 0.3	4	225	< 1	2	55	93	6.52	1	3	0.30	4.83	0.21	0.017	0.12	2	< 0.01	45	14
213397	< 0.3	< 0.3	3	95	2	2	73	38	9.19	< 1	6	0.19	5.03	0.07	0.021	0.04	< 2	< 0.01	72	10
213398 (1)	4.4	< 0.3	4	1100	12	< 1	472	39	8.95	2	< 2	1.38	2.71	0.1	0.036	0.04	< 2	< 0.01	78	259
213398 (2)	7.0	0.4	5	1080	12	1	480	49	8.07	2	< 2	1.26	3.09	0.09	0.034	0.04	< 2	< 0.01	77	214
213399	2.2	< 0.3	7	458	6	2	309	37	7.18	2	< 2	1.02	3.29	0.09	0.031	0.05	< 2	< 0.01	63	112
213400	2.4	< 0.3	3	492	8	< 1	375	39	8.62	2	< 2	1.24	1.58	0.11	0.032	0.05	< 2	< 0.01	70	151
213401	5.2	0.4	6	1050	10	< 1	498	27	9.56	2	< 2	1.46	3.25	0.09	0.037	0.03	< 2	< 0.01	83	232
213402	3.8	< 0.3	6	2560	16	< 1	1290	34	5.78	2	< 2	0.72	1.72	0.13	0.095	0.03	< 2	< 0.01	56	433
213403	0.4	< 0.3	3	686	5	< 1	481	45	6.91	1	< 2	0.45	2.22	0.15	0.035	0.07	< 2	< 0.01	61	176
213404	< 0.3	< 0.3	8	3150	21	< 1	1700	30	9.3	2	< 2	1.24	1.66	0.16	0.023	0.01	< 2	< 0.01	77	718
213405	< 0.3	< 0.3	7	1870	16	< 1	1300	31	8.88	2	< 2	1.15	1.3	0.14	0.057	0.03	< 2	< 0.01	77	567
213406	< 0.3	< 0.3	3	123	3	2	159	53	7.17	< 1	< 2	0.67	1.78	0.13	0.019	0.05	2	< 0.01	62	85
213407	< 0.3	< 0.3	3	293	7	< 1	301	43	7.26	1	< 2	1.03	1.97	0.12	0.01	0.06	3	< 0.01	61	245
213408	0.3	< 0.3	7	199	2	2	154	46	7.72	1	< 2	0.76	3.74	0.12	0.021	0.06	3	< 0.01	67	105
213409	3.4	< 0.3	4	486	9	< 1	411	45	8.25	2	< 2	1.32	2.41	0.13	0.028	0.06	3	< 0.01	70	402
213409 Split PULP DUP	3.8	< 0.3	7	498	12	< 1	417	46	8.13	1	< 2	1.31	1.75	0.13	0.038	0.05	2	< 0.01	70	399
SDC-1 cert	0.0	(.08	30	883	(.25	38	25	103	8.338	3.0	0.26	1.001	2.722	1.02	0.069	0.606	102	0.065	183	40
SDC-1	< 0.3	< 0.3	36	882	< 1	36	26	103	8.74	3	< 2	1.13	2.52	1.01	0.055	0.21	54	0.060	183	41
DNC-1 cert	(.027	(.182	96	1154	(.7	247	6.3	66	9.687	1	(.02	8.055	0.19	6.06	0.037	0.287	148	(0.039	145	18
DNC-1	0.5	< 0.3	102	1080	< 1	262	3	57	10.2	< 1	< 2	7.88	0.22	5.63	0.025	0.24	151	0.060	140	19
SCO-1 cert	0.1	0.1	28.7	410	1.37	27	31	103	7.24	1.84	0.37	1.87	2.30	1.64	0.090	0.376	131	0.063	174	26
SCO-1	0.5	< 0.3	29	385	< 1	28	30	99	7.54	1	< 2	1.93	2.38	1.56	0.079	0.28	128	0.060	164	23
GXR-6 cert	1.3	(1	66	1008	2.4	27	101	118	17.68	1.4	(.29	0.179	1.87	0.61	0.035	0.498	186	0.016	35	14
GXR-6	0.9	0.3	72	1060	< 1	27	105	133	14.1	1	< 2	0.2	2.04	0.65	0.037	0.38	182	0.020	42	16
GXR-2 cert	17.0	4.1	76	1008	(2.1	21	690	530	16.46	1.7	(.69	0.929	1.37	0.85	0.105	0.300	52	0.031	160	17
GXR-2	16.4	3.9	75	869	2	18	683	498	13.9	1	< 2	0.91	1.38	0.85	0.053	0.19	45	0.020	155	18
GXR-1 cert	31.0	3.3	1110	853	18	41	730	760	1.22	1.22	1380	0.958	0.05	0.22	0.065	0.036	80	0.257	275	32
GXR-1	30.4	3	1100	854	19	39	766	710	2.41	< 1	1380	0.86	0.05	0.23	0.053	0.02	79	0.240	282	28
GXR-4 cert	4.0	(.86	6520	155	310	42	52	73	7.20	1.9	19	1.01	4.01	1.66	0.120	0.290	87	1.770	221	87
GXR-4	3.5	0.3	6250	150	302	40	45	71	6.1	2	18	0.99	2.47	1.54	0.105	0.21	84	1.590	205	14

Clients are advised to obtain assays for Ag>100 ppm and Pb>5000 ppm due to potential solubility problems.
 Values for Cu, Ni, Zn, Mo greater than 1% should be assayed if accuracy better than +/-10-15% is required
 Values above 1% are for informational purposes only and should not be relied upon for promotional or reserve calculations. Assays are recommended for this purpose
 Sulphur will precipitate in samples containing massive sulphides



C. Douglas Read, B. Sc.
 Laboratory Manager, Activation Laboratories Ltd.

Quality Analysis ...



Innovative Technologies

Date Submitted: 03-Oct-07
Invoice No.: A07-4802
Invoice Date: 08-Nov-07
Your Reference: 180399 U GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

44 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT **A07-4802**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

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Activation Laboratories Ltd. Report: A07-4802

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
213410	< 2	7.4	28	< 0.3	354	595	7	53	0.28	3.85	< 0.5	< 50	2	< 2	< 0.5	0.48	4	23	4	< 0.2	2.14	29	< 1	< 5
213411	< 2	0.9	15	< 0.3	42	60	8	80	0.21	6.77	2.1	< 50	2	< 2	< 0.5	0.74	5	20	5	0.7	2.49	9	< 1	< 5
213412	< 2	0.5	3	< 0.3	10	57	3	45	0.01	7.79	< 0.5	420	2	< 2	< 0.5	0.63	< 1	8	3	0.4	1.44	6	< 1	< 5
213413	< 2	1.7	22	< 0.3	363	590	3	24	0.17	5.05	< 0.5	< 50	1	< 2	< 0.5	0.30	< 1	19	3	< 0.2	1.29	21	< 1	< 5
213414	< 2	1.1	24	< 0.3	924	431	3	56	0.12	3.91	< 0.5	< 50	2	< 2	< 0.5	0.58	3	17	5	< 0.2	1.74	12	< 1	< 5
213415	< 2	2.1	64	< 0.3	570	929	9	55	0.52	4.69	< 0.5	< 50	1	< 2	< 0.5	0.50	4	25	3	< 0.2	2.17	26	< 1	< 5
213416	< 2	0.9	40	< 0.3	116	270	6	26	0.35	4.94	1.6	< 50	2	< 2	< 0.5	0.58	3	24	3	< 0.2	2.71	10	< 1	< 5
213417	< 2	0.5	56	< 0.3	68	175	10	29	0.57	5.81	1.6	< 50	2	< 2	< 0.5	0.74	4	30	3	< 0.2	2.71	6	< 1	< 5
213418	< 2	0.9	39	< 0.3	195	465	4	52	0.25	4.97	4.0	< 50	2	< 2	< 0.5	0.76	2	33	6	< 0.2	2.98	12	< 1	< 5
213419	< 2	1.0	29	< 0.3	96	287	2	25	0.25	5.31	2.2	220	1	< 2	< 0.5	0.11	< 1	13	2	< 0.2	2.15	11	< 1	< 5
213420	< 2	< 0.3	40	< 0.3	66	68	12	40	0.14	5.67	1.2	320	2	< 2	< 0.5	0.47	3	58	6	< 0.2	1.93	2	< 1	< 5
213421	< 2	0.6	30	0.3	134	216	8	77	0.20	7.78	< 0.5	240	2	< 2	1.2	0.65	3	81	9	< 0.2	4.52	7	< 1	< 5
213422	< 2	< 0.3	6	< 0.3	188	91	6	160	0.03	5.08	< 0.5	290	< 1	< 2	< 0.5	0.15	7	23	10	< 0.2	3.94	4	< 1	< 5
213423	< 2	< 0.3	18	< 0.3	136	123	3	41	0.07	7.64	< 0.5	260	1	< 2	0.7	0.58	2	48	5	0.4	2.78	4	< 1	< 5
213424	< 2	1.4	37	0.4	550	330	17	132	1.17	5.69	< 0.5	< 50	1	< 2	< 0.5	0.32	10	153	16	1.0	8.27	13	< 1	< 5
213425	< 2	0.9	50	0.5	442	265	22	179	1.55	9.92	< 0.5	430	1	< 2	< 0.5	0.51	13	204	20	0.9	11.3	11	< 1	< 5
213426	< 2	0.7	58	0.6	85	167	20	125	1.11	7.74	2.8	< 50	2	< 2	< 0.5	0.81	10	113	12	< 0.2	6.23	7	< 1	< 5
213427	< 2	0.5	151	0.9	57	96	50	192	1.75	6.38	2.8	< 50	2	< 2	< 0.5	1.10	20	173	18	0.5	8.90	4	< 1	< 5
213428	< 2	0.4	141	0.5	50	172	42	170	1.41	6.92	< 0.5	340	2	< 2	< 0.5	0.93	14	199	19	< 0.2	10.5	4	< 1	< 5
213429	< 2	0.5	173	0.6	78	84	65	234	2.19	7.45	< 0.5	< 50	2	< 2	< 0.5	1.02	23	200	20	< 0.2	9.69	4	< 1	< 5
213430	< 2	0.8	20	0.6	32	274	28	161	0.01	8.13	< 0.5	< 50	3	< 2	< 0.5	5.16	21	60	12	2.0	5.98	18	< 1	< 5
213431	< 2	0.7	11	0.3	37	348	15	136	0.01	9.30	< 0.5	< 50	4	< 2	< 0.5	4.44	13	22	12	< 0.2	4.31	16	< 1	< 5
213432	< 2	0.5	8	< 0.3	87	291	9	97	< 0.01	9.29	2.7	< 50	1	< 2	< 0.5	1.75	7	17	8	1.6	2.51	10	< 1	< 5
213433	< 2	0.9	3	0.7	98	482	22	163	< 0.01	8.09	3.2	< 50	2	< 2	< 0.5	4.97	16	27	24	< 0.2	7.48	32	< 1	< 5
213434	< 2	0.8	3	0.3	58	596	13	120	< 0.01	9.54	3.2	< 50	4	< 2	< 0.5	4.91	12	25	15	< 0.2	4.31	47	< 1	< 5
213435	< 2	3.3	4	0.3	48	624	15	135	0.01	7.07	2.9	490	5	< 2	< 0.5	4.81	8	24	14	1.5	3.78	51	< 1	< 5
213436	< 2	0.9	3	< 0.3	87	428	13	152	< 0.01	6.52	1.8	< 50	4	< 2	< 0.5	4.16	11	15	15	2.7	4.07	34	< 1	< 5
213437	< 2	0.5	6	0.3	20	235	11	94	0.01	8.75	1.1	< 50	4	< 2	< 0.5	3.45	7	11	7	0.5	2.43	11	< 1	< 5
213438	< 2	0.5	24	0.4	8	111	25	85	0.01	7.26	< 0.5	< 50	4	< 2	< 0.5	4.58	25	19	5	< 0.2	4.41	8	< 1	< 5
213439	< 2	0.8	6	< 0.3	20	210	9	83	0.01	9.33	< 0.5	< 50	4	< 2	< 0.5	3.31	16	22	7	< 0.2	2.35	14	< 1	< 5
213440	< 2	< 0.3	3	< 0.3	32	302	5	52	< 0.01	8.76	1.0	< 50	3	< 2	< 0.5	2.31	13	11	7	< 0.2	1.35	16	< 1	< 5
213441	< 2	< 0.3	4	0.3	28	241	6	63	< 0.01	8.85	< 0.5	< 50	3	< 2	< 0.5	2.20	10	< 2	8	2.0	1.46	16	< 1	< 5
213442	< 2	0.4	2	< 0.3	8	309	3	42	< 0.01	8.71	< 0.5	< 50	2	< 2	< 0.5	1.83	4	12	7	< 0.2	1.07	23	< 1	< 5
213443	< 2	< 0.3	2	< 0.3	5	440	3	35	< 0.01	8.50	3.8	< 50	1	< 2	< 0.5	2.03	10	< 2	8	< 0.2	1.30	38	< 1	< 5
213444	< 2	0.4	3	< 0.3	12	318	3	39	< 0.01	9.27	2.4	< 50	2	< 2	< 0.5	2.09	< 1	10	8	1.9	1.02	20	< 1	< 5
213445	< 2	0.5	7	< 0.3	20	168	7	132	< 0.01	8.62	< 0.5	< 50	3	< 2	< 0.5	2.22	9	12	13	0.5	3.33	13	< 1	< 5
213446	< 2	1.4	8	< 0.3	30	377	6	120	< 0.01	9.72	< 0.5	< 50	4	< 2	< 0.5	2.84	7	17	10	< 0.2	3.09	25	< 1	< 5
213447	< 2	< 0.3	7	< 0.3	21	350	6	107	< 0.01	9.82	2.0	< 50	4	< 2	< 0.5	2.81	6	10	10	0.9	2.60	21	< 1	< 5
213448	< 2	0.4	3	< 0.3	3	142	3	38	< 0.01	7.48	< 0.5	480	3	< 2	< 0.5	0.80	< 1	< 2	9	1.1	1.03	5	< 1	< 5
213449	< 2	< 0.3	4	< 0.3	3	126	3	43	< 0.01	7.18	< 0.5	< 50	2	< 2	< 0.5	0.80	3	< 2	9	0.5	1.04	8	< 1	< 5
213450	< 2	0.5	3	< 0.3	3	181	3	41	< 0.01	7.98	< 0.5	< 50	3	< 2	< 0.5	0.94	< 1	10	8	< 0.2	1.13	7	< 1	< 5
213451	< 2	< 0.3	4	< 0.3	1	8	3	44	< 0.01	7.51	4.5	< 50	205	5	< 0.5	0.27	< 1	< 2	238	< 0.2	0.63	< 1	< 1	< 5
213452	< 2	< 0.3	2	0.3	< 1	< 3	2	42	< 0.01	7.62	3.8	< 50	11	7	< 0.5	0.24	< 1	< 2	73	0.2	0.64	2	< 1	< 5
213453	< 2	< 0.3	3	< 0.3	< 1	15	< 1	97	< 0.01	6.47	2.8	< 50	7	< 2	< 0.5	0.16	< 1	< 2	55	< 0.2	0.64	1	< 1	< 5

Activation Laboratories Ltd. Report: A07-4802

Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
213410	2.19	0.35	212	1.21	0.007	154	< 0.1	5.2	3	36	< 0.5	0.17	97.3	220	16	< 1	41	15.9	33	< 5	< 0.1	< 0.01	< 0.5	7.9
213411	4.76	0.43	250	1.97	0.010	236	< 0.1	5.9	< 3	65	1.3	0.20	21.6	52.4	18	< 1	12	12.9	20	6	1.0	< 0.01	< 0.5	1.8
213412	6.37	0.32	167	1.72	0.016	270	< 0.1	3.8	< 3	77	1.4	0.15	13.5	28.9	12	< 1	10	12.9	27	8	1.3	< 0.01	< 0.5	1.5
213413	6.79	0.17	115	1.02	0.009	214	< 0.1	2.5	< 3	47	< 0.5	0.09	104	190	8	< 1	78	24.2	46	14	2.3	< 0.01	2.3	16.9
213414	1.39	0.30	217	1.00	0.011	98	< 0.1	4.2	< 3	30	0.9	0.16	139	324	14	< 1	95	41.8	81	19	3.5	< 0.01	4.3	31.3
213415	5.52	0.30	214	1.11	0.015	179	< 0.1	4.5	< 3	40	< 0.5	0.18	141	264	14	< 1	141	50.4	108	26	7.9	< 0.01	4.4	33.1
213416	4.83	0.19	122	1.62	0.006	176	< 0.1	3.1	< 3	45	< 0.5	0.11	42.6	95.4	11	< 1	20	6.8	6	< 5	< 0.1	< 0.01	< 0.5	3.3
213417	6.33	0.28	193	1.55	0.007	169	< 0.1	3.7	< 3	50	< 0.5	0.13	23.0	47.9	19	< 1	15	6.1	11	< 5	< 0.1	< 0.01	< 0.5	2.0
213418	3.23	0.34	219	1.79	0.006	160	0.3	5.9	< 3	40	< 0.5	0.19	62.4	149	18	< 1	38	15.6	26	7	< 0.1	0.07	< 0.5	8.5
213419	7.95	0.06	49	0.85	0.008	233	< 0.1	1.4	< 3	49	< 0.5	0.04	33.1	71.8	5	< 1	17	3.7	8	< 5	< 0.1	< 0.01	< 0.5	2.1
213420	3.37	0.28	239	1.76	0.008	327	< 0.1	4.6	< 3	58	1.5	0.16	11.4	20.4	42	< 1	10	11.4	20	8	1.8	< 0.01	0.6	4.6
213421	2.19	0.67	495	1.47	0.011	380	< 0.1	10.2	< 3	63	1.5	0.37	46.8	49.9	43	< 1	73	19.2	69	6	5.1	< 0.01	3.4	27.0
213422	4.50	0.40	412	0.67	0.025	448	< 0.1	11.1	< 3	44	1.0	0.20	56.2	63.2	21	< 1	50	35.5	95	19	6.7	< 0.01	2.5	14.2
213423	5.57	0.33	224	1.97	0.011	331	0.2	5.3	< 3	69	< 0.5	0.18	39.4	39.1	20	< 1	45	17.0	58	7	3.7	< 0.01	2.4	14.7
213424	6.27	1.09	986	0.66	0.028	534	< 0.1	21.3	< 3	29	2.6	0.82	126	155	70	6	79	53.3	157	29	9.3	< 0.01	4.0	23.7
213425	6.25	1.38	1370	0.92	0.059	707	< 0.1	29.4	< 3	38	5.4	1.10	149	151	94	< 1	187	106	275	63	19.4	< 0.01	7.6	41.5
213426	3.98	0.97	813	1.51	0.020	387	< 0.1	16.4	< 3	54	4.4	0.68	74.2	70.0	60	< 1	82	52.0	145	30	9.9	< 0.01	3.4	25.1
213427	2.05	1.11	918	2.04	0.029	519	< 0.1	22.9	< 3	50	1.8	0.52	12.0	52.3	111	< 1	11	12.4	33	5	1.3	< 0.01	< 0.5	2.3
213428	1.51	1.24	986	1.66	0.028	551	0.3	25.0	< 3	44	4.1	0.56	28.1	59.2	138	< 1	29	22.3	59	8	3.5	< 0.01	< 0.5	9.6
213429	1.57	1.30	1110	1.62	0.034	560	< 0.1	25.9	< 3	46	3.9	0.79	11.6	83.5	145	< 1	14	10.1	26	< 5	0.7	< 0.01	< 0.5	1.9
213430	1.83	1.56	1400	1.63	0.020	326	< 0.1	23.5	< 3	67	1.9	0.36	21.7	704	144	< 1	185	149	277	28	7.6	< 0.01	4.2	8.4
213431	1.81	1.22	933	2.32	0.723	304	0.4	13.4	< 3	91	1.9	0.37	308	740	56	< 1	226	236	443	102	22.5	< 0.01	5.6	9.1
213432	4.59	0.82	462	1.22	0.495	454	0.3	7.3	< 3	108	1.3	0.18	110	499	25	< 1	142	96.2	182	51	11.2	< 0.01	3.6	6.6
213433	2.26	1.48	1450	1.71	1.07	541	0.3	21.4	< 3	73	2.3	0.15	302	1320	74	< 1	361	232	443	64	15.0	< 0.01	8.3	17.3
213434	1.75	1.05	792	3.50	0.880	342	< 0.1	11.4	< 3	102	< 0.5	0.24	251	1150	41	< 1	261	155	288	45	< 0.1	< 0.01	6.5	14.9
213435	1.81	0.90	813	3.35	0.788	299	< 0.1	10.6	< 3	107	3.8	0.33	195	1040	41	3	169	105	174	< 5	< 0.1	< 0.01	4.5	14.0
213436	2.06	0.81	798	2.86	0.676	283	< 0.1	11.5	< 3	82	2.6	0.16	176	655	43	< 1	150	112	214	32	7.0	< 0.01	4.4	12.2
213437	1.52	0.83	490	3.07	0.341	159	< 0.1	6.6	< 3	98	< 0.5	0.23	127	424	28	< 1	99	90.0	159	41	4.6	< 0.01	2.4	5.1
213438	1.18	1.31	1040	2.24	0.127	< 15	< 0.1	16.5	< 3	80	< 0.5	0.39	47.1	167	206	2	44	31.4	61	14	1.8	< 0.01	0.9	2.9
213439	2.88	0.77	462	3.07	0.294	168	< 0.1	6.3	< 3	103	< 0.5	0.26	127	370	29	< 1	89	101	188	60	9.5	< 0.01	< 0.5	5.3
213440	2.35	0.48	273	2.14	0.358	256	< 0.1	3.7	< 3	100	< 0.5	0.12	129	358	12	< 1	114	66.3	123	35	4.7	< 0.01	2.2	7.3
213441	2.57	0.49	279	2.41	0.314	130	0.2	4.0	< 3	100	< 0.5	0.12	120	319	12	2	95	< 0.5	128	36	8.0	< 0.01	1.1	7.1
213442	4.00	0.34	215	1.88	0.462	385	< 0.1	3.1	< 3	103	< 0.5	0.07	194	286	7	6	158	< 0.5	252	67	19.2	< 0.01	4.2	11.0
213443	4.73	0.39	247	1.60	0.587	475	0.5	4.5	< 3	109	< 0.5	0.09	340	442	8	< 1	228	200	395	143	28.7	< 0.01	6.4	16.1
213444	4.58	0.33	219	2.07	0.517	386	< 0.1	3.3	< 3	107	< 0.5	0.08	223	283	6	< 1	174	135	275	100	22.0	< 0.01	4.5	11.7
213445	1.53	0.87	606	2.74	0.218	316	0.4	10.4	< 3	78	< 0.5	0.33	74.4	183	18	< 1	62	47.9	91	19	6.2	< 0.01	1.0	4.3
213446	1.62	0.78	555	3.40	0.297	111	< 0.1	9.6	< 3	95	< 0.5	0.28	146	479	16	< 1	107	84.0	145	24	5.6	< 0.01	1.5	6.9
213447	1.57	0.73	471	3.31	0.252	250	< 0.1	8.2	< 3	96	< 0.5	0.23	149	394	13	< 1	106	< 0.5	165	38	9.3	< 0.01	< 0.5	7.3
213448	4.30	0.32	155	1.70	0.077	301	< 0.1	2.9	< 3	83	< 0.5	0.10	82.4	253	6	< 1	35	66.2	122	28	3.4	< 0.01	0.9	2.5
213449	4.31	0.34	157	1.80	0.087	325	0.5	3.2	< 3	77	< 0.5	0.10	94.4	199	6	< 1	40	< 0.5	131	48	7.3	< 0.01	< 0.5	2.7
213450	3.33	0.34	172	1.90	0.075	358	< 0.1	3.2	< 3	83	< 0.5	0.21	101	377	16	< 1	41	82.7	140	42	4.1	< 0.01	< 0.5	3.0
213451	3.30	0.08	200	1.35	0.040	1690	6.5	1.4	< 3	27	145	0.08	3.2	6.6	14	10	4	< 0.5	< 3	< 5	0.2	< 0.01	< 0.5	< 0.2
213452	1.94	0.03	1240	4.96	0.046	974	1.6	5.1	< 3	13	9.7	< 0.01	18.6	7.0	2	< 1	30	< 0.5	12	< 5	2.0	< 0.01	< 0.5	4.0
213453	2.32	0.06	296	2.50	0.024	1800	1.4	3.7	< 3	21	12.3	0.01	9.8	4.5	< 2	8	12	3.6	10	< 5	1.6	< 0.01	< 0.5	1.3

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
213410	1.15	18.1	217	1.047
213411	0.29	21.4	46.1	1.026
213412	0.27	19.6	26.8	1.085
213413	2.52	20.7	188	1.061
213414	4.82	20.7	332	1.085
213415	5.03	19.7	265	1.013
213416	0.50	21.1	78.8	1.004
213417	0.33	23.4	47.1	1.005
213418	1.16	17.9	126	1.077
213419	0.41	21.3	75.1	1.089
213420	0.72	19.1	18.0	1.063
213421	3.79	18.7	50.1	1.087
213422	1.82	21.0	51.2	1.039
213423	1.87	18.7	31.2	1.035
213424	3.34	16.5	139	1.016
213425	5.75	19.8	138	1.041
213426	3.81	21.1	74.7	1.023
213427	0.39	18.8	47.5	1.073
213428	1.37	18.1	53.5	1.012
213429	0.34	19.3	64.2	1.036
213430	1.62	20.5	796	1.048
213431	1.64	21.0	867	1.092
213432	1.24	23.7	567	1.094
213433	3.45	18.3	1500	1.035
213434	2.95	18.7	1170	1.087
213435	2.91	20.7	1250	1.071
213436	2.45	25.9	808	1.098
213437	0.77	26.7	522	1.094
213438	0.43	23.3	192	1.068
213439	0.79	21.3	415	1.075
213440	1.23	21.2	409	1.056
213441	1.06	18.1	336	1.082
213442	1.88	19.9	322	1.054
213443	2.68	20.0	505	1.001
213444	1.91	19.6	321	1.100
213445	0.75	22.2	210	1.084
213446	1.33	17.9	548	1.088
213447	1.19	23.0	477	1.073
213448	0.39	23.2	292	1.029
213449	0.50	18.9	221	1.050
213450	< 0.05	17.6	427	1.070
213451	< 0.05	21.6	5.7	1.054
213452	0.53	21.2	6.6	1.064
213453	0.19	23.4	4.2	1.012

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Quality Control																								
Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01
Analysis Method	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA
GXR-1 Meas		30.2		1110	3.8	16	736	43		759		0.24	2.13			1	1370		0.87					
GXR-1 Cert		31.0		1110	3.30	18.0	730	41.0		760		0.257	3.52			1.22	1380		0.960					
GXR-1 Meas		30.2		1110	3.1	16	739	42		738		0.25	2.42			1	1390		0.96					
GXR-1 Cert		31.0		1110	3.30	18.0	730	41.0		760		0.257	3.52			1.22	1380		0.960					
DH-1a Meas																								
DH-1a Cert																								
DNC-1 Meas		< 0.3		104	< 1	5	248			61		0.05	8.66			< 1	< 2		8.05					
DNC-1 Cert		0.0270		96.0	0.700	6.30	247			66.0		0.0390	9.69			1.00	0.0200		8.06					
DNC-1 Meas		< 0.3		92	< 1	7	248			55		0.05	9.79			< 1	< 2		7.89					
DNC-1 Cert		0.0270		96.0	0.700	6.30	247			66.0		0.0390	9.69			1.00	0.0200		8.06					
GXR-4 Meas		3.7		5900	0.8	313	64	40		76		1.79	6.56			2	26		1.05					
GXR-4 Cert		4.00		6520	0.860	310	52.0	42.0		73.0		1.77	7.20			1.90	19.0		1.01					
GXR-4 Meas		3.2		5830	1.0	313	47	42		70		1.79	6.90			2	15		1.11					
GXR-4 Cert		4.00		6520	0.860	310	52.0	42.0		73.0		1.77	7.20			1.90	19.0		1.01					
GXR-2 Meas		18.3		78	3.1	1	696	21		529		0.02	11.8			2	< 2		0.81					
GXR-2 Cert		17.0		76.0	4.10	2.10	690	21.0		530		0.0313	16.5			1.70	0.690		0.930					
GXR-2 Meas		18.5		75	3.3	1	693	19		545		0.01	9.57			2	< 2		0.80					
GXR-2 Cert		17.0		76.0	4.10	2.10	690	21.0		530		0.0313	16.5			1.70	0.690		0.930					
SDC-1 Meas		< 0.3		31	0.3	< 1	25	36		103		0.07	8.26			3	< 2		1.17					
SDC-1 Cert		0.0410		30.0	0.0800	0.250	25.0	38.0		103		0.0650	8.34			3.00	2.60		1.00					
SDC-1 Meas		< 0.3		25	0.3	< 1	20	37		100		0.07	8.59			3	< 2		1.20					
SDC-1 Cert		0.0410		30.0	0.0800	0.250	25.0	38.0		103		0.0650	8.34			3.00	2.60		1.00					
SCO-1 Meas		0.3		30	0.3	< 1	31	36		100			7.54			2	< 2		2.13					
SCO-1 Cert		0.134		28.7	0.140	1.37	31.0	27.0		103			7.24			1.84	0.370		1.87					
SCO-1 Meas		0.4		26	0.4	1	26	30		98			7.57			2	< 2		2.12					
SCO-1 Cert		0.134		28.7	0.140	1.37	31.0	27.0		103			7.24			1.84	0.370		1.87					
GXR-6 Meas		0.4		65	1.4	< 1	92	25		120		0.02	13.8			1	< 2		0.23					
GXR-6 Cert		1.30		66.0	1.00	2.40	101	27.0		118		0.0160	17.7			1.40	0.290		0.180					
GXR-6 Meas		0.5		63	1.6	2	89	28		127		0.02	13.3			1	< 2		0.21					
GXR-6 Cert		1.30		66.0	1.00	2.40	101	27.0		118		0.0160	17.7			1.40	0.290		0.180					
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas				2750				2110																
OREAS 13P Cert				2500				2260																
OREAS 13P Meas				2490				2120																
OREAS 13P Cert				2500				2260																
BL-4a Meas																								
BL-4a Cert																								
DMMAS-104 Meas	244									200				1580	810				49	94			1.1	5.91
DMMAS-104 Cert	229									96.2				1570	850				48.8	95.1			1.2	5.61
DMMAS-104 Meas	227									120				1510	690				43	99			1.2	5.77
DMMAS-104 Cert	229									96.2				1570	850				48.8	95.1			1.2	5.61
DMMAS-104 Meas	224									180				1520	810				46	96			1.3	5.97
DMMAS-104 Cert	229									96.2				1570	850				48.8	95.1			1.2	5.61
213422 Dup		< 0.3		5	< 0.3	183	90	6		158		0.02	4.97				< 1	< 2		0.12				
213422 Dup																								
213436 Dup		1.5		3	< 0.3	81	411	12		149		< 0.01	3.98				4	< 2		3.82				
213436 Dup																								
213439 Split	< 2		< 5						< 20	< 50				< 0.5	< 50			< 0.5		18	20	7	< 0.2	2.68
213453 Split	< 2		< 5						< 20	< 50				2.7	< 50			< 0.5		< 1	< 2	53	< 0.2	0.67
Method Blank Method Blank																								
Method Blank Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		2		< 0.01	< 0.01			< 1	< 2		< 0.01					
Method Blank Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01					

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Quality Control																									
Analyte Symbol	Hf	Hg	Ir	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	
Unit Symbol	ppm	ppm	ppb	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit	1	1	5	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	
Analysis Method	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	
GXR-1 Meas				0.04	0.20	900		0.055					295					82						32	
GXR-1 Cert				0.0500	0.217	852		0.0650					275											32.0	
GXR-1 Meas				0.05	0.35	916		0.062					300						85					32	
GXR-1 Cert				0.0500	0.217	852		0.0650					275						80.0					32.0	
DH-1a Meas																									
DH-1a Cert																									
DNC-1 Meas				0.19	6.01	1130		0.026					138		0.29			151						17	
DNC-1 Cert				0.190	6.06	1150		0.0370					145		0.287			148						18.0	
DNC-1 Meas				0.20		1070		0.027					132		0.27			137						17	
DNC-1 Cert				0.190		1150		0.0370					145		0.287			148						18.0	
GXR-4 Meas				3.70	1.60	155		0.118					209					85						15	
GXR-4 Cert				4.01	1.66	155		0.120					221					87.0						14.0	
GXR-4 Meas				3.51	1.55	155		0.131					213					84						15	
GXR-4 Cert				4.01	1.66	155		0.120					221					87.0						14.0	
GXR-2 Meas				1.34	0.73	941		0.057					141					50						16	
GXR-2 Cert				1.37	0.850	1010		0.105					160					52.0						17.0	
GXR-2 Meas				0.92	0.94	911		0.062					136					50						16	
GXR-2 Cert				1.37	0.850	1010		0.105					160					52.0						17.0	
SDC-1 Meas				2.86	1.04	931		0.054					183		0.30			63						39	
SDC-1 Cert				2.72	1.02	883		0.0690					183		0.606			102						40.0	
SDC-1 Meas				1.98	1.18	916		0.060					182		0.41			81						39	
SDC-1 Cert				2.72	1.02	883		0.0690					183		0.606			102						40.0	
SCO-1 Meas				2.42	1.70	419		0.082					170		0.33			130						24	
SCO-1 Cert				2.30	1.64	410		0.0900					174		0.380			131						26.0	
SCO-1 Meas				3.97	1.50	405		0.091					169		0.38			135						23	
SCO-1 Cert				2.30	1.64	410		0.0900					174		0.380			131						26.0	
GXR-6 Meas				1.79	0.66	1000		0.036					47					182						14	
GXR-6 Cert				1.87	0.609	1010		0.0350					35.0					186						14.0	
GXR-6 Meas				1.86	0.85	1100		0.041					43					197						15	
GXR-6 Cert				1.87	0.609	1010		0.0350					35.0					186						14.0	
SY-2 Meas																									
SY-2 Cert																									
OREAS 13P Meas																									
OREAS 13P Cert																									
OREAS 13P Meas																									
OREAS 13P Cert																									
BL-4a Meas																									
BL-4a Cert																									
DMMAS-104 Meas							3.47			6.5	13.7					8.1	71.6		6			34.9	65	17	4.3
DMMAS-104 Cert							3.43			6.2	14.1					8.3	71.9		6			36.6	62.9	18.8	4.3
DMMAS-104 Meas							3.19			6.0	13.5					8.3	71.0		7			34.5	61	18	3.8
DMMAS-104 Cert							3.43			6.2	14.1					8.3	71.9		6			36.6	62.9	18.8	4.3
DMMAS-104 Meas							3.22			5.9	13.9					8.1	69.8		7			35.3	83	20	3.9
DMMAS-104 Cert							3.43			6.2	14.1					8.3	71.9		6			36.6	62.9	18.8	4.3
213422 Dup				4.58	0.38	398		0.024					42		0.19			19						49	
213422 Dup																									
213436 Dup				1.69	0.70	763		0.653					71		0.18			42						81	
213436 Dup																									
213439 Split	14	< 1	< 5				3.04		170	< 0.1	7.0	< 3		< 0.5		134	379		< 1		112	203	59	9.1	
213453 Split	1	< 1	< 5				2.39		1730	1.2	3.5	< 3		12.1		9.4	4.4		7		3.3	9	< 5	1.5	
Method Blank Method Blank																									
Method Blank Method Blank				< 0.01	< 0.01	5		< 0.001					< 1		< 0.01			< 2			< 1				
Method Blank Method Blank				< 0.01	< 0.01	3		< 0.001					< 1		< 0.01			< 2			< 1				

Quality Control

Analyte Symbol	Sn	Tb	Yb	Lu	Mass	U	Mass
Unit Symbol	%	ppm	ppm	ppm	g	ppm	g
Detection Limit	0.01	0.5	0.2	0.05		0.1	
Analysis Method	INAA	INAA	INAA	INAA	INAA	DNC	DNC

GXR-1 Meas							
GXR-1 Cert							
GXR-1 Meas							
GXR-1 Cert							
DH-1a Meas						2630	
DH-1a Cert						2630	
DNC-1 Meas							
DNC-1 Cert							
DNC-1 Meas							
DNC-1 Cert							
GXR-4 Meas							
GXR-4 Cert							
GXR-4 Meas							
GXR-4 Cert							
GXR-2 Meas							
GXR-2 Cert							
GXR-2 Meas							
GXR-2 Cert							
SDC-1 Meas							
SDC-1 Cert							
SDC-1 Meas							
SDC-1 Cert							
SCO-1 Meas							
SCO-1 Cert							
SCO-1 Meas							
SCO-1 Cert							
GXR-6 Meas							
GXR-6 Cert							
GXR-6 Meas							
GXR-6 Cert							
SY-2 Meas						289	
SY-2 Cert						284	
OREAS 13P Meas							
OREAS 13P Cert							
OREAS 13P Meas							
OREAS 13P Cert							
BL-4a Meas						1250	
BL-4a Cert						1250	
DMMAS-104 Meas			3.5	0.52			
DMMAS-104 Cert			3.0	0.4			
DMMAS-104 Meas			3.2	0.53			
DMMAS-104 Cert			3.0	0.4			
DMMAS-104 Meas			3.2	0.52			
DMMAS-104 Cert			3.0	0.4			
213422 Dup							
213422 Dup							
213436 Dup							
213436 Dup							
213439 Split	< 0.01	< 0.5	4.9	0.68	17.9	423	1.096
213453 Split	< 0.01	< 0.5	1.3	0.17	18.9	3.9	1.088
Method Blank Method						< 0.1	1.000
Blank							
Method Blank Method							
Blank							
Method Blank Method							
Blank							

Quality Analysis ...



Innovative Technologies

Date Submitted: 23-Oct-07
Invoice No.: A07-5253 (i)
Invoice Date: 08-Dec-07
Your Reference: 180399 U GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

54 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT A07-5253 (i)

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Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman". The signature is written in a cursive, flowing style with a long horizontal stroke extending to the right.

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd.

Report: A07-5253 (i)

Analyte Symbol	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	U	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	ppm	g
Detection Limit	0.3	1	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	0.1	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	DNC	DNC
213456	1.4	116	< 0.3	< 1	114	4	83	0.01	4.33	1	< 2	0.82	2.18	0.22	240	0.008	37	0.11	7	51	841	1.049
213457	0.7	11	< 0.3	< 1	116	2	47	< 0.01	5.27	1	< 2	0.70	1.80	0.13	138	0.010	49	0.10	6	90	1030	1.066
213458	1.1	17	< 0.3	< 1	105	3	38	< 0.01	5.33	1	< 2	0.73	2.99	0.10	102	0.011	54	0.08	5	46	1080	1.036
213459	< 0.3	5	0.3	< 1	73	2	117	< 0.01	3.08	< 1	< 2	0.15	2.16	0.27	278	0.022	23	0.15	8	36	150	1.046
213460	< 0.3	3	< 0.3	< 1	58	3	101	< 0.01	5.56	< 1	< 2	0.23	3.90	0.25	245	0.016	47	0.11	5	21	18.1	1.013
213461	< 0.3	6	< 0.3	9	80	3	81	< 0.01	5.56	1	< 2	0.27	3.26	0.19	195	0.031	52	0.13	7	28	69.8	1.079
213482	< 0.3	4	< 0.3	2	51	3	29	< 0.01	6.43	1	< 2	1.04	2.61	0.08	88	0.031	59	0.07	4	74	246	1.043
213463	< 0.3	2	< 0.3	10	40	2	30	< 0.01	5.60	2	< 2	0.48	3.30	0.07	81	0.014	49	0.08	5	9	59.1	1.075
213464	< 0.3	2	< 0.3	1	81	3	76	< 0.01	5.98	1	< 2	0.42	3.45	0.21	216	0.024	56	0.14	7	46	56.6	1.004
213465	0.5	12	0.3	< 1	23	5	96	0.01	4.79	1	< 2	0.34	2.64	0.06	288	0.008	73	0.09	5	16	5.7	1.049
213466	0.7	5	< 0.3	< 1	44	3	14	< 0.01	6.14	1	< 2	0.65	2.64	0.04	52	0.008	87	0.02	< 2	9	384	1.064
213467	0.5	2	< 0.3	< 1	46	2	12	< 0.01	5.59	< 1	< 2	0.11	3.66	0.03	17	0.002	82	0.02	< 2	1	501	1.086
213468	1.0	3	< 0.3	< 1	70	2	62	< 0.01	8.08	1	< 2	0.76	3.87	0.16	84	0.021	105	0.09	3	20	1170	1.025
213469	1.3	5	< 0.3	< 1	52	2	17	0.01	6.44	1	< 2	0.47	2.53	0.05	55	0.009	89	0.03	< 2	5	1290	1.024
213470	1.8	43	< 0.3	< 1	915	3	141	0.08	6.27	1	< 2	0.37	2.94	0.74	452	0.055	170	0.21	16	64	2070	1.067
213471	1.2	29	< 0.3	1	641	2	91	0.06	6.18	1	< 2	0.29	4.83	0.44	272	0.028	184	0.18	13	43	1440	1.013
213472	0.9	22	< 0.3	< 1	547	3	79	0.03	6.55	1	< 2	0.30	3.12	0.42	262	0.031	185	0.17	13	34	990	1.053
213473	0.9	2	< 0.3	< 1	257	1	36	< 0.01	4.35	1	< 2	0.70	2.24	0.18	115	0.004	135	0.10	8	17	777	1.076
213474	0.6	2	< 0.3	< 1	220	2	56	< 0.01	5.33	1	< 2	0.88	1.84	0.27	157	0.004	146	0.14	11	15	561	1.048
213475	0.3	1	< 0.3	< 1	378	3	112	< 0.01	1.92	1	< 2	0.17	1.17	0.54	328	0.001	21	0.37	16	34	522	1.059
213476	0.3	2	< 0.3	3	313	3	72	< 0.01	3.80	1	< 2	0.28	1.57	0.34	272	0.002	52	0.31	11	28	559	1.044
213477	0.4	2	< 0.3	< 1	367	2	97	< 0.01	2.12	1	< 2	0.16	1.31	0.46	253	0.001	24	0.15	5	33	686	1.014
213478	0.8	5	< 0.3	< 1	588	2	58	< 0.01	2.02	1	< 2	0.28	0.67	0.27	166	0.003	24	0.17	8	51	1020	1.081
213479	0.4	2	< 0.3	< 1	406	3	108	< 0.01	2.47	1	< 2	0.18	1.54	0.52	260	< 0.001	28	0.14	7	38	745	1.060
213480	0.4	1	< 0.3	< 1	85	3	5	< 0.01	7.64	1	< 2	0.31	3.28	0.04	39	0.006	135	0.03	2	4	306	1.056
213481	0.4	1	< 0.3	< 1	107	2	7	< 0.01	8.12	< 1	< 2	0.28	3.75	0.06	51	0.003	131	0.04	2	5	302	1.011
213482	0.7	2	< 0.3	< 1	160	3	38	< 0.01	6.63	1	< 2	0.61	2.15	0.14	96	0.001	138	0.05	3	13	444	1.051
213483	1.7	2	< 0.3	< 1	119	1	12	< 0.01	6.06	1	< 2	0.45	2.02	0.06	51	0.006	116	0.04	2	11	1470	1.019
213484	0.7	2	< 0.3	1	476	3	138	< 0.01	4.31	1	< 2	0.24	1.61	0.35	127	0.007	48	0.24	10	24	757	1.073
213485	1.1	15	< 0.3	< 1	879	3	198	0.05	5.44	< 1	< 2	0.25	2.46	0.21	100	0.058	85	0.15	7	54	1230	1.071
213487	0.9	19	< 0.3	1	692	5	58	0.06	1.48	< 1	< 2	0.08	2.37	0.21	67	0.050	37	0.19	10	14	956	1.066
213488	< 0.3	1	0.3	< 1	16	6	52	< 0.01	1.64	1	< 2	0.30	1.79	0.13	148	0.013	20	0.50	15	< 1	427	1.061
17202	0.8	21	0.5	1	5	16	48	0.47	2.01	2	< 2	1.29	0.29	0.16	269	0.030	71	0.18	39	5	14.7	1.071
17203	0.5	2	< 0.3	4	34	11	23	< 0.01	1.37	2	< 2	0.33	1.93	0.08	175	0.018	24	0.11	8	5	124	1.056
17204	0.4	7	0.3	2	29	19	47	< 0.01	1.60	2	< 2	0.21	2.04	0.20	184	0.022	32	0.19	38	6	84.5	1.084
17205	1.4	15	0.6	3	26	56	111	< 0.01	1.75	4	< 2	0.70	1.97	0.21	671	0.006	17	0.47	108	2	73.4	1.037
17206	4.8	6	< 0.3	3	1120	8	7	0.20	0.42	1	< 2	0.04	0.46	0.01	35	0.002	18	0.02	< 2	33	1890	1.034
17207	0.3	2	< 0.3	3	24	7	32	< 0.01	1.08	2	< 2	0.21	2.00	0.05	140	0.014	14	0.09	5	6	40.1	1.041
17208	0.3	7	0.3	4	12	29	12	0.09	0.77	1	< 2	0.14	1.19	0.02	72	0.020	9	0.13	8	2	26.1	1.073
17209	< 0.3	3	< 0.3	2	206	10	68	< 0.01	6.02	1	< 2	0.68	4.79	0.39	157	0.127	82	0.18	21	138	168	1.055
17210	< 0.3	1	< 0.3	1	100	5	41	< 0.01	7.49	1	< 2	0.83	2.02	0.18	111	0.017	81	0.09	8	29	92.6	1.064
17211	2.0	230	0.7	< 1	9	90	83	2.06	7.67	2	< 2	5.38	2.16	3.32	662	0.188	944	0.46	128	22	6.0	1.058
17212	< 0.3	4	< 0.3	1	78	3	50	0.02	6.58	1	< 2	0.52	2.16	0.14	170	0.023	76	0.12	12	135	504	1.047
17213	0.4	264	1.5	1	28	39	219	3.83	3.70	1	< 2	0.63	1.50	0.53	3900	0.006	21	0.07	12	20	7.1	1.069
17214	0.8	383	2.0	< 1	16	128	35	8.52	0.52	< 1	< 2	0.39	0.14	0.43	844	0.006	8	0.03	17	4	1.3	1.033
361669	< 0.3	28	0.6	4	395	29	159	0.38	7.39	3	< 2	2.12	2.66	0.89	995	0.259	91	0.26	68	434	237	1.072
361670	0.7	51	0.5	1	17	16	118	0.65	4.39	1	< 2	2.97	1.18	0.59	328	0.038	150	0.26	51	10	5.3	1.054
361671	< 0.3	12	< 0.3	1	128	1	69	0.01	6.55	2	< 2	0.12	1.92	0.21	174	0.099	62	0.13	8	128	83.2	1.007
361672	< 0.3	6	0.5	1	91	5	96	< 0.01	8.45	4	3	3.12	2.72	0.57	633	0.537	87	0.07	19	97	69.0	1.044
361673	< 0.3	8	0.7	1	316	5	120	0.02	6.91	5	73	5.95	2.40	0.65	926	1.59	63	0.05	21	305	189	1.071
361674	< 0.3	5	< 0.3	1	83	15	80	< 0.01	4.28	1	< 2	0.64	1.95	0.38	273	0.029	57	0.16	17	39	66.9	1.067
361675	0.4	7	< 0.3	< 1	270	4	17	0.01	8.54	2	< 2	1.11	4.59	0.10	686	0.042	97	0.03	3	61	230	1.037

Activation Laboratories Ltd. Report: A07-5253 (i)

Analyte Symbol	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	U	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	ppm	g
Detection Limit	0.3	1	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	0.1	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	DNC	DNC
361676	1.3	31	0.6	11	173	29	130	0.13	5.17	1	< 2	0.86	2.08	1.18	1620	0.024	58	0.48	68	92	63.7	1.059

Activation Laboratories Ltd. Report: A07-5253 (i)

Quality Control

Analyte Symbol	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Br	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	U	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	ppm	g
Detection Limit	0.3	1	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	0.1	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	DNC	DNC
GXR-1 Meas	31.3	1110	3.3	15	761	42	758	0.25	2.19	1	1300	0.93	0.05	0.23	903	0.055	289		89	32		
GXR-1 Cert	31.0	1110	3.30	18.0	730	41.0	760	0.257	3.52	1.22	1380	0.960	0.0500	0.217	852	0.0650	275		80.0	32.0		
GXR-1 Meas	29.3	1120	4.0	16	697	42	726	0.23	1.96	1	1390	0.84	0.04	0.20	848	0.052	291		82	31		
GXR-1 Cert	31.0	1110	3.30	18.0	730	41.0	760	0.257	3.52	1.22	1380	0.960	0.0500	0.217	852	0.0650	275		80.0	32.0		
DH-1a Meas																						
DH-1a Cert																						2640 2630
DNC-1 Meas	< 0.3	89		< 1	5	244	55	0.06	8.55	< 1	< 2	7.70	0.20	5.94	1090	0.024	127	0.27	140	17		
DNC-1 Cert	0.0270	96.0		0.700	6.30	247	66.0	0.0390	9.69	1.00	0.0200	8.06	0.190	6.06	1150	0.0370	145	0.287	148	18.0		
DNC-1 Meas	< 0.3	99		< 1	< 3	248	57	0.06	8.01	< 1	< 2	7.92	0.20	5.85	1070	0.025	129	0.28	144	16		
DNC-1 Cert	0.0270	96.0		0.700	6.30	247	66.0	0.0390	9.69	1.00	0.0200	8.06	0.190	6.06	1150	0.0370	145	0.287	148	18.0		
GXR-4 Meas	3.5	5710	0.8	313	44	43	74	1.77	6.07	2	7	1.13	4.28	1.78	162	0.122	211		95	15		
GXR-4 Cert	4.00	6520	0.860	310	52.0	42.0	73.0	1.77	7.20	1.90	19.0	1.01	4.01	1.66	155	0.120	221		87.0	14.0		
GXR-4 Meas	3.6	6030	0.8	314	48	41	73	1.81	5.57	2	13	1.09	3.53	1.66	148	0.121	212		89	15		
GXR-4 Cert	4.00	6520	0.860	310	52.0	42.0	73.0	1.77	7.20	1.90	19.0	1.01	4.01	1.66	155	0.120	221		87.0	14.0		
GXR-2 Meas	17.2	72	3.5	1	663	21	516	0.03	13.0	2	< 2	1.02	1.40	0.94	828	0.057	152		51	16		
GXR-2 Cert	17.0	76.0	4.10	2.10	690	21.0	530	0.0313	16.5	1.70	0.690	0.930	1.37	0.850	1010	0.105	160		52.0	17.0		
GXR-2 Meas	19.1	80	3.0	< 1	731	21	551	0.03	10.4	2	< 2	0.95	1.40	0.84	1030	0.059	156		54	16		
GXR-2 Cert	17.0	76.0	4.10	2.10	690	21.0	530	0.0313	16.5	1.70	0.690	0.930	1.37	0.850	1010	0.105	160		52.0	17.0		
SDC-1 Meas	< 0.3	27	< 0.3	< 1	20	39	104	0.07	8.17	3	< 2	1.17	3.09	1.09	957	0.055	186	0.47	85	38		
SDC-1 Cert	0.0410	30.0	0.0800	0.250	25.0	38.0	103	0.0650	8.34	3.00	2.60	1.00	2.72	1.02	883	0.0690	183	0.606	102	40.0		
SDC-1 Meas	< 0.3	28	0.4	< 1	19	38	103	0.06	6.92	3	< 2	1.15	2.53	1.01	897	0.053	177	0.14	40	37		
SDC-1 Cert	0.0410	30.0	0.0800	0.250	25.0	38.0	103	0.0650	8.34	3.00	2.60	1.00	2.72	1.02	883	0.0690	183	0.606	102	40.0		
SCO-1 Meas	< 0.3	26	0.4	1	28	19	99		4.73	2	< 2	1.98	2.39	1.52	401	0.075	134	0.35	132	18		
SCO-1 Cert	0.134	28.7	0.140	1.37	31.0	27.0	103		7.24	1.84	0.370	1.87	2.30	1.64	410	0.0900	174	0.380	131	26.0		
SCO-1 Meas	0.4	29	0.5	1	29	32	107		6.25	2	< 2	2.14	2.54	1.69	433	0.085	176	0.40	146	23		
SCO-1 Cert	0.134	28.7	0.140	1.37	31.0	27.0	103		7.24	1.84	0.370	1.87	2.30	1.64	410	0.0900	174	0.380	131	26.0		
GXR-6 Meas	0.5	63	1.5	1	94	28	133	0.01	9.28	1	< 2	0.18	1.74	0.40	1120	0.030	36		197	8		
GXR-6 Cert	1.30	66.0	1.00	2.40	101	27.0	118	0.0160	17.7	1.40	0.290	0.180	1.87	0.609	1010	0.0350	35.0		186	14.0		
GXR-6 Meas	0.4	63	1.1	< 1	93	29	130	0.01	10.4	1	< 2	0.18	1.60	0.57	1070	0.025	37		82	14		
GXR-6 Cert	1.30	66.0	1.00	2.40	101	27.0	118	0.0160	17.7	1.40	0.290	0.180	1.87	0.609	1010	0.0350	35.0		186	14.0		
SY-2 Meas																						
SY-2 Cert																						287 284
OREAS 13P Meas		2540					2210															
OREAS 13P Cert		2500					2260															
OREAS 13P Meas		2680					2070															
OREAS 13P Cert		2500					2280															
BL-4a Meas																						1250
BL-4a Cert																						1250
213460 Orig	< 0.3	3	< 0.3	< 1	58	2	102	< 0.01	5.63	< 1	< 2	0.23	4.56	0.26	253	0.017	48	0.12	6	21		
213460 Dup	< 0.3	3	< 0.3	< 1	58	3	99	< 0.01	5.50	< 1	< 2	0.22	3.24	0.25	237	0.016	46	0.10	4	21		
213481 Orig	0.3	1	< 0.3	< 1	105	2	6	< 0.01	7.95	< 1	< 2	0.27	3.50	0.06	50	0.003	129	0.04	2	5		
213481 Dup	0.4	1	< 0.3	< 1	109	2	8	< 0.01	8.28	< 1	< 2	0.29	4.00	0.06	52	0.004	132	0.04	2	5		
213485 Split	1.2	16	< 0.3	1	961	4	216	0.06	5.91	< 1	< 2	0.27	4.41	0.23	110	0.068	92	0.16	8	59	1220	1.044
17209 Orig	0.8	2	< 0.3	< 1	29	25	26	< 0.01	1.11	1	< 2	0.25	1.29	0.13	59	0.145	24	0.18	17	17		
17209 Dup	< 0.3	3	< 0.3	1	197	11	82	< 0.01	6.11	1	< 2	0.65	2.40	0.34	150	0.119	75	0.17	19	132		
361673 Split	< 0.3	7	0.8	1	348	5	120	0.03	7.01	5	88	6.16	3.00	0.69	978	1.63	64	0.05	22	303	194	1.059
361676 Split	1.3	27	0.7	11	180	28	138	0.14	4.04	1	< 2	0.81	1.82	1.23	1660	0.035	58	0.54	74	86	63.2	1.059
Method Blank Method Blank	< 0.3	1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	1	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	1	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	3	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	9	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	8	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank																					< 0.1	1.000
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 1	< 0.001	< 1	< 0.01	< 2	< 1		

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Quality Control																						
Analyte Symbol	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	U	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	ppm	g
Detection Limit	0.3	1	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	0.1	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	DNC	DNC
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	1	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	0.02	< 1	< 2	< 0.01	< 0.01	< 0.01	< 1	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	1	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	1	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	1	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	2	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	0.03	< 1	< 2	< 0.01	< 0.01	< 0.01	1	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	0.02	< 1	< 2	< 0.01	< 0.01	< 0.01	< 1	< 0.001	< 1	< 0.01	< 2	< 1		

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Sample ID	Au ppb	As ppm	Ba* ppm	Br ppm	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir* ppb	Na %	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Ta ppm	Th ppm	U ppm	W ppm	La* ppm	Ce* ppm	Nd* ppm
213456	-2	18.4	-50	-0.5	12	16	2	1.92	6	-1	-5	1.48	276	0.7	6.6	-3	-0.01	-0.5	43.3	797	-1	52.6	73	-5
213457	-2	2.6	5860	-0.5	6	31	-1	1.25	9	-3	-5	2.01	185	-0.1	3.9	-3	-0.01	1.1	47.3	1020	-1	65.5	85	-5
213458	-2	3.7	-50	-0.5	3	15	1	0.91	7	-3	-5	2.11	158	-0.1	2.6	-3	-0.01	1.7	43.1	1020	-1	61.8	-3	-5
213459	-2	-0.5	-50	-0.5	4	20	3	2.27	-1	-1	-5	0.47	277	-0.1	7.8	-3	-0.01	-0.5	105	141	-1	96.7	196	35
213460	-2	-0.5	-50	-0.5	4	21	4	2.29	1	-1	-5	1.13	403	-0.1	7.7	-3	-0.01	2.8	61.3	23.6	-1	50.8	108	33
213461	-2	-0.5	549	-0.5	2	22	4	1.69	-1	-1	-5	1.20	377	-0.1	5.3	-3	-0.01	-0.5	55.4	68.7	-1	52.0	107	28
213462	-2	-0.5	-50	-0.5	-1	20	1	0.72	2	-1	-5	2.45	213	-0.1	1.9	-3	-0.01	-0.5	93.3	228	-1	88.4	181	60
213463	-2	1.2	-50	-0.5	-1	19	2	0.63	-1	-1	-5	1.69	248	-0.1	1.9	-3	-0.01	-0.5	9.0	56.4	-1	10.1	18	7
213464	-2	-0.5	642	-0.5	4	18	2	1.70	2	-1	-5	1.47	353	-0.1	5.8	-3	-0.01	-0.5	61.4	59.2	-1	50.6	108	23
213465	-2	2.8	1023	-0.5	3	-5	1	1.67	8	-1	-5	1.33	154	-0.1	1.3	-3	-0.01	-0.5	18.5	5.0	-1	54.2	96	27
213466	-2	-0.5	-50	-0.5	-1	19	4	0.22	4	-1	-5	1.94	183	0.2	0.3	-3	-0.01	-0.5	17.4	357	-1	20.8	-3	-5
213467	-2	2.6	-50	-0.5	2	15	3	0.32	-1	-1	-5	1.45	296	-0.1	0.4	-3	-0.01	-0.5	2.6	477	-1	16.5	-3	-5
213468	-2	-0.5	-50	-0.5	4	23	6	0.82	4	-1	-5	2.30	265	-0.1	1.1	-3	-0.01	-0.5	78.1	1160	-1	116.3	163	-5
213469	-2	-0.5	-50	-0.5	3	16	4	0.31	2	-1	-5	1.65	253	-0.1	0.4	-3	-0.01	-0.5	13.7	1260	-1	43.8	-3	-5
213470	-2	2.0	828	-0.5	14	37	6	2.08	2	-1	-5	1.25	241	0.2	4.1	-3	-0.01	-0.5	245	1820	16	93.9	-3	-5
213471	-2	-0.5	614	-0.5	7	28	4	1.33	-1	-1	-5	1.39	226	-0.1	2.3	-3	-0.01	-0.5	162	1350	11	71.1	-3	-5
213472	-2	2.1	-64	-0.5	20	16	5	1.51	-1	-1	-5	1.49	289	-0.1	2.4	-3	-0.01	1.4	152	970	-1	51.8	-3	-5
213473	-2	-0.5	381	-0.5	7	20	1	0.73	5	-1	-5	1.93	96	-0.1	1.1	-3	-0.01	-0.5	93.4	732	4	41.7	-3	-5
213474	-2	2.6	539	-0.5	7	-5	2	0.86	4	-1	-5	2.17	170	-0.1	1.6	-3	-0.01	-0.5	79.6	517	-1	34.3	-3	-5
213475	-2	3.3	-50	-0.5	5	13	5	1.85	-1	-1	-5	0.47	104	0.1	4.0	-3	-0.01	1.3	144	483	3	22.0	-3	-5
213476	-2	-0.5	-50	-0.5	4	23	3	1.34	-1	-1	-5	1.04	130	-0.1	2.8	-3	-0.01	2.2	115	547	4	26.8	-3	-5
213477	-2	-0.5	-50	-0.5	9	20	4	1.73	1	-1	-5	0.51	97	0.2	3.5	-3	-0.01	2.7	164	639	5	25.3	-3	-5
213478	-2	-0.5	607	-0.5	5	34	2	1.11	-1	-1	-5	0.66	63	-0.1	1.8	-3	-0.01	-0.5	247	991	-1	36.2	-3	-5
213479	-2	-0.5	3960	-0.5	5	29	4	1.87	1	-1	-5	0.59	105	-0.1	3.9	-3	-0.01	3.5	171	731	-1	27.8	-3	-5
213480	-2	-0.5	552	-0.5	-1	17	3	0.24	1	-1	-5	1.87	365	0.1	0.3	-3	-0.01	-0.5	9.6	302	-1	10.9	-3	-5
213481	-2	-0.5	515	-0.5	2	12	2	0.36	-1	-1	-5	1.77	402	-0.1	0.4	-3	-0.01	-0.5	20.2	301	-1	10.9	-3	-5
213482	-2	3.1	432	-0.5	-1	20	2	0.59	10	-1	-5	2.31	187	-0.1	0.7	-3	-0.01	1.5	38.2	445	-1	22.4	-3	-5
213483	-2	-0.5	7730	2.2	-1	30	2	0.47	7	-1	-5	2.36	233	-0.1	0.6	-3	-0.01	-0.5	46.0	1400	-1	51.3	-3	-5
213484	-2	-0.5	-50	-0.5	-1	26	6	1.57	3	-1	-5	0.81	223	-0.1	2.0	-3	-0.01	1.9	65.6	728	-1	27.4	-3	-5
213485	12	3.2	840	-0.5	-1	36	6	1.24	4	-1	-5	1.05	231	-0.1	1.4	-3	-0.01	0.7	158	1260	-1	113.0	130	-5
213485 Split PULP DUP	12	3.0	649	-0.5	2	32	7	1.37	5	-1	-5	1.15	246	0.2	1.4	-3	-0.01	-0.5	170	1290	8	120.3	135	-5
213487	-2	2.4	-50	-0.5	4	31	5	1.60	-1	-1	-5	0.88	215	-0.1	1.9	-3	-0.01	1.0	171	920	-1	32.8	-3	-5
213488	-2	4.1	2120	-0.5	4	10	17	3.07	1	-1	-5	2.54	448	0.5	4.9	-3	-0.01	3.9	10.8	419	-1	23.3	-3	-5
17202	-2	5.0	-50	-0.5	7	47	2	4.55	4	-1	-5	0.38	27	-0.1	4.9	-3	-0.01	0.6	9.7	15.9	-1	23.9	48	15
17203	-2	5.2	621	-0.5	3	16	7	1.26	7	-1	-5	1.81	382	0.3	3.4	-3	-0.01	-0.5	76.0	128	-1	37.2	72	8
17204	-2	11.5	-50	-0.5	5	77	13	2.49	8	-1	-5	1.71	334	0.3	9.3	-3	-0.01	0.8	96.2	87.0	-1	103.5	204	63
17205	-2	28.2	-50	-0.5	10	179	23	6.17	26	-1	-5	2.17	688	0.8	16.4	-3	-0.01	4.3	113	77.2	-1	11.8	19	-5
17206	-2	2.1	-50	-0.5	5	46	2	0.85	38	-3	-5	0.25	27	-0.1	0.6	-3	-0.01	-0.5	195	1740	-1	50.9	-3	-5
17207	-2	7.9	639	0.9	-1	13	6	1.21	6	-1	-5	1.57	371	-0.1	3.2	-3	-0.01	1.1	65.5	43.3	-1	43.8	83	17
17208	-2	4.8	432	-0.5	2	7	5	3.06	5	-1	-5	1.44	408	-0.1	4.1	-3	-0.01	2.0	74.1	27.5	-1	57.1	104	33
17209	-4	-0.5	-50	-0.5	-1	20	4	1.26	12	-1	-5	1.31	210	-0.1	2.5	-3	-0.01	-0.5	347	151.6	-1	450.9	761	198
17210	-2	1.1	-50	-0.5	-1	6	2	0.77	9	-1	-5	2.15	221	0.2	1.8	-3	-0.01	-0.5	101	95.4	-1	104.4	192	51
17211	-2	1.5	900	-0.5	26	239	7	5.04	5	-1	-5	0.59	140	-0.1	12.9	-3	-0.01	0.9	13.0	7.1	-1	68.4	132	50

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Sample ID	Au ppb	As ppm	Ba* ppm	Br ppm	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir* ppb	Na %	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Ta ppm	Th ppm	U ppm	W ppm	La* ppm	Ce* ppm	Nd* ppm
17212	-2	-0.5	-50	-0.5	3	20	2	1.15	4	-1	-5	1.94	284	-0.1	2.1	-3	-0.01	-0.5	98.3	491	-1	85.8	155	34
17213	-2	4.4	324	-0.5	5	20	3	11.25	4	-1	-5	0.37	69	1.0	2.2	-3	-0.01	-0.5	10.5	7.5	-1	30.5	51	20
17214	-2	21.4	-50	-0.5	83	21	3	37.41	-1	-1	-5	0.04	-14	0.5	1.6	-3	-0.01	-0.5	1.8	1.7	-1	5.0	-3	5
361669**	-50	-11.0	1750	-6.0	6	70	-5	3.90	9	-5	-15	1.52	196	1.3	14.4	-10	-0.10	1.9	1650	210	-3	2100	4100	1600
361670	-2	1.8	-50	-0.5	8	30	2	2.97	7	-1	-5	1.09	77	-0.1	7.7	-3	-0.01	1.2	17.9	6.3	-1	23.4	45	12
361671	-5	7.3	940	-0.5	-1	16	16	1.40	4	-1	-5	1.47	523	0.3	3.8	-3	-0.01	5.7	401	77.8	14	666	1090	338
361672	-2	15.5	705	-0.5	3	15	16	3.06	14	-1	-5	2.63	385	0.7	7.7	-3	-0.01	3.8	12.7	72.1	-1	20.2	56	20
361673	-2	24.5	-50	-0.5	3	14	26	4.33	24	-1	-5	2.05	475	0.5	11.6	-3	-0.01	7.9	39.9	195	-1	52.4	140	72
361673 Split prep dup	-2	26.1	-50	-0.5	3	16	26	4.21	24	-1	-5	1.96	466	1.0	11.7	-3	-0.01	6.9	41.3	197	-1	52.5	135	67
361674	-2	1.3	592	-0.5	3	33	1	1.46	4	-1	-5	1.12	131	0.2	3.4	-3	-0.01	-0.5	113	69.1	-1	112	201	65
361675	-2	2.5	855	-0.5	-1	8	1	0.92	7	-1	-5	2.54	230	-0.1	4.4	-3	-0.01	-0.5	204	233	-1	171	308	55
361676	-2	-0.5	536	-0.5	5	111	5	6.07	18	-1	-5	1.18	245	0.2	15.1	-3	-0.01	1.6	99.3	66.3	-1	118	285	64
361676 Split PULP DUP	-2	-0.5	324	-0.5	6	117	5	6.16	18	-1	-5	1.23	287	-0.1	14.7	-3	-0.01	-0.5	99.9	63.2	-2	115	290	68
BLANK	-2	-0.5	-50	-0.5	-1	-5	-1	-0.01	-1	-1	-5	-0.01	-15	-0.1	-0.1	-3	-0.01	-0.5	-0.2	-0.5	-1	-0.5	-3	-5
DMMAS-104	245	1590	930	-0.5	47	92	-1	5.65	5	-1	-5	3.49	-18	6.4	14.9	-3	-0.01	-0.5	8.3	71.0	-1	38.9	77	28
DMMAS-104	221	1550	930	-0.5	47	102	-1	5.61	5	-1	-5	3.40	-15	6.7	14.6	-3	-0.01	-0.5	8.1	70.7	7	37.8	71	18
DMMAS-104	241	1570	920	-0.5	46	102	-1	5.66	5	-1	-5	3.27	-14	6.7	14.0	-3	-0.01	-0.5	8.1	69.9	5	36.6	67	18
DMMAS-104	227	1510	900	-0.5	42	97	-1	5.61	5	-1	-5	3.22	-14	6.4	13.9	-3	-0.01	-0.5	8.2	71.3	8	39.2	65	17
DMMAS-104	228	1570	827	-0.5	46	96	-1	5.64	6	-1	-5	3.30	-14	6.5	14.3	-3	-0.01	-0.5	8.1	71.2	6	36.9	67	18
DMMAS-104	218	1530	892	-0.5	44	100	-1	5.66	5	-1	-5	3.33	-14	6.8	14.2	-3	-0.01	-0.5	8.2	71.0	6	37.7	65	32
DMMAS104 Accepted	229	1570	850		49	95		5.61				3.43		6.2	14.1				8.3	71.9	6	36.6	63	19

^a U interference

^{**} Detection limits are elevated due to high concentration of Th, U and REEs

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Sample ID	Sm*	Eu	Tb	Yb	Lu*	Mass
	ppm	ppm	ppm	ppm	ppm	g
213456	-0.1	-0.2	2.0	10.6	-0.05	23.07
213457	-0.1	-0.2	2.9	22.7	-0.05	22.67
213458	-0.1	2.5	-0.5	8.7	-0.05	24.17
213459	13.7	-0.2	2.0	1.7	-0.05	25.76
213460	8.1	0.3	0.8	1.1	-0.05	21.92
213461	7.7	0.8	1.1	2.0	-0.05	23.67
213462	12.3	2.0	3.3	10.7	1.67	22.39
213463	-0.1	0.7	-0.5	0.8	-0.05	22.90
213464	8.6	0.7	2.3	8.5	1.24	23.75
213465	5.8	1.4	-0.5	1.9	0.28	23.57
213466	-0.1	1.9	-0.5	0.7	-0.05	23.16
213467	-0.1	1.7	-0.5	-0.2	-0.05	22.76
213468	-0.1	2.7	1.3	-0.2	-0.05	22.52
213469	-0.1	1.7	-0.5	-0.2	-0.05	22.61
213470	-0.1	-0.2	2.7	3.1	-0.05	23.67
213471	-0.1	5.2	1.2	2.0	-0.05	24.70
213472	-0.1	2.3	0.9	2.0	-0.05	21.95
213473	-0.1	1.8	0.9	1.1	-0.05	22.65
213474	-0.1	1.8	-0.5	1.1	-0.05	23.75
213475	-0.1	-0.2	1.9	1.7	-0.05	23.91
213476	-0.1	1.7	1.5	1.4	-0.05	22.27
213477	-0.1	1.4	1.8	1.9	-0.05	25.93
213478	-0.1	1.2	2.4	2.9	-0.05	23.12
213479	-0.1	1.5	1.6	1.9	-0.05	26.34
213480	-0.1	1.7	-0.5	-0.2	-0.05	21.32
213481	-0.1	1.6	-0.5	-0.2	-0.05	21.48
213482	-0.1	2.7	-0.5	1.1	-0.05	22.99
213483	-0.1	1.9	-0.5	1.0	-0.05	25.13
213484	-0.1	1.3	-0.5	1.2	-0.05	24.39
213485	-0.1	-0.2	3.0	1.7	-0.05	24.16
213485 Split PULP DUP	-0.1	-0.2	3.2	1.8	-0.05	21.98
213487	-0.1	1.6	2.7	2.9	-0.05	23.81
213488	-0.1	1.8	-0.5	0.5	-0.05	25.14
17202	2.7	0.6	0.6	1.7	0.30	23.97
17203	3.5	1.4	-0.5	1.7	-0.05	23.19
17204	15.8	0.7	3.2	9.4	1.60	24.05
17205	-0.1	1.2	-0.5	3.1	-0.05	24.11
17206	-0.1	3.1	1.2	3.2	-0.05	21.48
17207	5.7	0.8	1.2	2.4	0.50	22.77
17208	6.2	0.5	-0.5	2.4	0.36	22.44
17209	56.6	-0.2	7.4	4.3	-0.05	26.33
17210	12.7	-0.2	1.3	1.4	-0.05	23.28
17211	9.3	3.2	0.7	1.7	0.28	27.30

Activation Laboratories Ltd. Work Order A07-5253 Report A07-5253

Sample ID	Sm*	Eu	Tb	Yb	Lu*	Mass
	ppm	ppm	ppm	ppm	ppm	g
17212	9.9	-0.2	4.2	31.2	5.35	24.19
17213	3.2	0.8	-0.5	2.2	0.35	28.05
17214	0.2	-0.2	-0.5	0.5	0.09	30.77
361669**	260.0	1.5	23.0	27.9	2.19	25.20
361670	2.7	0.7	-0.5	1.6	0.28	25.24
361671	79.8	1.1	12.2	7.1	0.96	23.01
361672	10.7	1.2	3.8	9.5	1.15	22.78
361673	34.7	2.1	13.2	26.9	3.40	23.62
361673 Split prep dup	34.6	2.3	13.2	26.7	3.90	23.84
361674	13.3	0.8	2.0	3.5	0.68	24.96
361675	18.9	2.2	4.4	8.6	1.43	22.10
361676	13.1	0.8	2.3	23.6	3.72	26.11
361676 Split PULP DUP	13.8	0.7	2.8	22.0	3.68	26.00
BLANK	-0.1	-0.2	-0.5	-0.2	-0.05	30.00
DMMAS-104	4.7	1.5	-0.5	3.3	0.54	20.12
DMMAS-104	4.4	1.7	-0.5	3.4	0.46	20.12
DMMAS-104	4.1	1.4	-0.5	3.4	0.43	20.39
DMMAS-104	4.3	1.3	-0.5	3.2	0.43	20.43
DMMAS-104	4.6	1.7	-0.5	3.8	0.48	20.16
DMMAS-104	4.9	1.4	-0.5	3.4	0.50	20.62
DMMAS104 Accepted	4.3	1.2		3.0	0.40	

Quality Analysis ...



Innovative Technologies

Date Submitted: 01-Nov-07

Invoice No.: A07-5491

Invoice Date: 21-Nov-07

Your Reference:

Freewest Resources Canada Inc

851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

18 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT **A07-5491**

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Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd.

Report: A07-5491

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD- ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD- ICP	MULT INAA / TD- ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
213486	< 2	3.2	12	< 0.3	8	635	3	24	0.16	2.12	3.5	300	< 1	< 2	< 0.5	0.25	< 1	15	< 1	< 0.2	1.21	39	< 1	< 5
213485	< 2	3.5	8	< 0.3	13	782	3	19	0.07	0.98	2.7	< 50	< 1	< 2	< 0.5	0.07	< 1	32	2	< 0.2	1.02	43	< 1	7
213490	< 2	4.2	6	< 0.3	15	1100	3	14	0.14	1.21	2.6	< 50	< 1	< 2	< 0.5	0.16	< 1	32	< 1	< 0.2	1.07	44	< 1	< 5
213491	< 2	0.8	5	< 0.3	12	93	2	43	0.37	3.22	< 0.5	< 50	1	< 2	< 0.5	0.74	3	21	2	0.9	1.10	12	< 1	< 5
213492	< 2	1.1	6	0.3	5	339	4	71	0.13	2.82	< 0.5	630	1	< 2	< 0.5	0.39	< 1	26	8	< 0.2	2.48	15	< 1	< 5
213493	< 2	0.9	4	< 0.3	10	130	3	33	0.21	1.60	1.5	< 50	< 1	< 2	< 0.5	0.23	2	24	2	< 0.2	0.89	13	< 1	< 5
213494	< 2	1.8	4	< 0.3	2	1250	8	39	0.08	3.08	< 0.5	< 50	< 1	< 2	< 0.5	0.11	6	29	< 1	< 0.2	2.61	3	< 1	< 5
213495	< 2	2.1	4	< 0.3	< 1	1200	7	37	0.07	4.80	< 0.5	< 50	1	< 2	< 0.5	0.11	4	37	3	< 0.2	2.49	4	< 1	< 5
213496	< 2	0.7	2	< 0.3	73	180	4	11	< 0.01	5.72	1.2	890	< 1	< 2	< 0.5	0.33	6	14	2	0.9	0.67	2	< 1	< 5
213497	< 2	0.6	2	< 0.3	74	146	3	12	< 0.01	6.27	1.9	880	< 1	< 2	< 0.5	0.33	4	12	2	0.9	0.67	< 1	< 1	< 5
213498	< 2	0.5	2	< 0.3	74	168	2	9	< 0.01	6.00	< 0.5	800	< 1	< 2	< 0.5	0.29	6	12	< 1	0.7	0.52	2	< 1	< 5
213499	< 2	0.8	3	< 0.3	188	644	3	75	< 0.01	5.42	2.0	< 50	< 1	< 2	< 0.5	0.71	4	16	4	< 0.2	1.29	3	< 1	< 5
213500	< 2	0.4	4	< 0.3	133	457	4	58	< 0.01	5.51	< 0.5	970	< 1	< 2	< 0.5	0.55	7	15	3	< 0.2	0.96	2	< 1	< 5
31501	< 2	0.4	3	< 0.3	176	335	2	45	< 0.01	5.78	1.6	810	< 1	< 2	< 0.5	0.48	8	17	3	1.1	0.93	2	< 1	< 5
31502	< 2	0.8	4	< 0.3	7	54	3	49	< 0.01	4.69	1.0	810	< 1	< 2	0.8	0.31	< 1	15	3	0.9	0.88	14	< 1	< 5
31503	< 2	0.6	2	< 0.3	3	46	1	36	< 0.01	4.98	1.7	810	< 1	< 2	< 0.5	0.17	2	16	3	1.1	0.65	10	< 1	< 5
31504	< 2	2.4	5	< 0.3	3	346	7	19	0.01	0.63	1.6	< 50	< 1	< 2	< 0.5	0.07	2	39	< 1	< 0.2	0.65	32	< 1	< 5
31505	< 2	3.8	6	< 0.3	2	779	4	4	0.19	0.88	< 0.5	< 50	< 1	< 2	< 0.5	0.12	3	37	< 1	< 0.2	0.49	36	< 1	< 5

Activation Laboratories Ltd. Report: A07-5491

Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
213488	1.38	0.15	85	0.75	0.004	80	< 0.1	1.3	< 3	73	< 0.5	0.10	126	223	18	6	14	9.2	18	< 5	< 0.1	< 0.01	< 0.5	1.7
213489	0.79	0.16	74	0.23	< 0.001	41	< 0.1	1.3	< 3	24	0.9	0.08	238	806	14	< 1	26	20.8	< 3	< 5	< 0.1	< 0.01	0.6	2.7
213490	0.52	0.12	71	0.45	0.002	< 15	< 0.1	1.2	< 3	29	< 0.5	0.08	240	888	12	< 1	32	28.9	< 3	< 5	< 0.1	< 0.01	0.7	2.9
213491	1.05	0.18	127	1.26	0.002	< 15	0.2	1.1	< 3	114	< 0.5	0.08	44.9	151	17	< 1	16	11.6	20	< 5	< 0.1	< 0.01	< 0.5	1.2
213492	1.67	0.75	335	0.74	0.004	142	< 0.1	3.9	< 3	72	1.8	0.31	94.9	75.7	74	< 1	6	8.7	17	< 5	< 0.1	< 0.01	< 0.5	1.0
213493	0.99	0.12	89	0.48	0.002	79	< 0.1	0.9	< 3	53	< 0.5	0.06	56.8	230	12	< 1	16	10.4	18	< 5	< 0.1	< 0.01	< 0.5	1.2
213494	2.11	0.47	648	1.06	0.017	166	< 0.1	3.2	< 3	121	< 0.5	0.27	470	1980	53	< 1	44	143	156	< 5	< 0.1	< 0.01	2.4	3.4
213495	2.19	0.61	570	1.01	0.014	168	< 0.1	3.3	< 3	130	1.9	0.29	345	2120	52	11	84	125	138	< 5	< 0.1	< 0.01	2.7	4.1
213496	3.93	0.10	95	1.76	0.064	200	< 0.1	0.7	< 3	194	< 0.5	0.05	49.2	590	6	6	31	21.6	< 3	< 5	< 0.1	< 0.01	0.9	1.0
213497	3.60	0.11	114	1.81	0.059	196	< 0.1	0.7	< 3	204	1.5	0.06	41.7	517	7	< 1	26	19.4	35	< 5	< 0.1	< 0.01	< 0.5	1.0
213498	3.64	0.07	77	1.67	0.047	207	< 0.1	0.4	< 3	207	< 0.5	0.04	41.5	424	4	4	25	16.1	30	< 5	< 0.1	< 0.01	< 0.5	0.8
213499	4.02	0.32	201	1.34	0.141	243	< 0.1	1.8	< 3	188	< 0.5	0.05	86.3	960	21	< 1	63	36.3	< 3	< 5	< 0.1	0.07	2.4	3.8
213500	3.87	0.20	140	1.50	0.103	225	< 0.1	1.3	< 3	186	< 0.5	0.04	68.8	535	13	< 1	45	20.9	< 3	< 5	< 0.1	< 0.01	1.4	2.4
31501	4.22	0.21	127	1.68	0.080	201	< 0.1	1.3	< 3	202	< 0.5	0.09	53.2	437	13	< 1	30	19.3	< 3	< 5	< 0.1	< 0.01	0.9	2.0
31502	3.33	0.23	123	1.53	0.002	151	< 0.1	1.4	< 3	155	1.2	0.12	4.5	40.8	14	< 1	5	5.9	9	< 5	< 0.1	< 0.01	< 0.5	0.7
31503	3.19	0.16	87	1.50	< 0.001	180	< 0.1	1.0	< 3	168	< 0.5	0.08	4.6	30.1	10	< 1	4	5.5	9	< 5	< 0.1	< 0.01	< 0.5	0.6
31504	0.33	0.16	66	0.23	< 0.001	< 15	< 0.1	1.3	< 3	13	< 0.5	0.07	135	492	13	< 1	17	14.8	< 3	< 5	< 0.1	< 0.01	< 0.5	2.0
31505	0.36	0.02	24	0.40	0.002	< 15	< 0.1	0.4	< 3	37	< 0.5	0.01	108	894	< 2	< 1	25	26.6	< 3	< 5	< 0.1	< 0.01	0.8	2.0

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
213486	< 0.05	22.1	229	1.003
213489	< 0.05	24.1	638	1.041
213490	< 0.05	21.6	909	1.060
213491	< 0.05	24.3	157	1.068
213492	< 0.05	23.3	72.5	1.007
213493	< 0.05	23.1	224	1.073
213494	< 0.05	21.2	2210	1.029
213495	< 0.05	21.1	2430	1.068
213496	< 0.05	23.2	604	1.066
213497	< 0.05	20.5	514	1.001
213498	< 0.05	21.8	441	1.045
213499	< 0.05	22.0	904	1.032
213500	< 0.05	20.7	509	1.089
31501	< 0.05	20.4	404	1.036
31502	< 0.05	24.7	39.4	1.067
31503	< 0.05	21.1	28.6	1.028
31504	< 0.05	26.8	471	1.064
31505	< 0.05	26.8	890	1.054

Activation Laboratories Ltd. Report: A07-5491

Quality Control

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
Detection Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	
Analysis Method	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	
GXR-1 Meas		29.2		1080	4.0	13	714	42		748		0.24	2.14												
GXR-1 Cert		31.0		1110	3.30	18.0	730	41.0		760		0.257	3.52				1.22								
DH-1a Meas																	1380								
DH-1a Cert																	1380								
DNC-1 Meas	< 0.3		95			< 1	6	239		55		0.05	8.42				< 1	< 2							
DNC-1 Cert	0.0270		96.0			0.700	6.30	247		66.0		0.0390	9.89				3	22						7.82	
GXR-4 Meas		4.0		8550	0.8	316	61	49		79		2.04	6.43				1.00	0.0200						8.06	
GXR-4 Cert		4.00		8520	0.860	310	52.0	42.0		73.0		1.77	7.20				2	< 2							1.20
GXR-2 Meas		18.7		81	2.7	1	721	21		544		0.04	12.7				1.90	19.0							1.01
GXR-2 Cert		17.0		76.0	4.10	2.10	690	21.0		530		0.0313	16.5				2	< 2							0.98
SDC-1 Meas	< 0.3		28	0.4	< 1	24	33			97		0.07	7.21				3	< 2							1.10
SDC-1 Cert	0.0410		30.0	0.0800	0.250	25.0	38.0			103		0.0650	8.34				3.00	2.60							1.00
SCO-1 Meas	< 0.3		27	0.5	< 1	28	30			101			6.77				2	< 2							2.05
SCO-1 Cert	0.134		28.7	0.140	1.37	31.0	27.0			103			7.24				1.84	0.370							1.87
GXR-8 Meas		0.4		66	1.3	< 1	98	26		124		0.01	12.2				1	< 2							0.18
GXR-8 Cert		1.30		66.0	1.00	2.40	101	27.0		118		0.0160	17.7				1.40	0.290							0.180
SY-2 Meas																									
SY-2 Cert																									
OREAS 13P Meas				2640				2100																	
OREAS 13P Cert				2500				2260																	
DMMAS-104 Meas	220									140				1620	870					46	95		1.3	5.59	
DMMAS-104 Cert	229									96.2				1570	850					48.8	95.1		1.2	5.61	
DMMAS-104 Meas	218									170				1600	930					45	93		1.3	5.62	
DMMAS-104 Cert	229									96.2				1570	850					48.8	95.1		1.2	5.61	
31504 Orig		2.5		5	< 0.3	3	358	7		19		0.01	0.66				< 1	< 2						0.08	
31504 Dup		2.3		4	< 0.3	3	333	6		18		0.01	0.60				< 1	< 2						0.07	
31505 Split	< 2	3.8	< 5	7	< 0.3	2	770	4	< 20	2	< 50	0.19	0.89	< 0.5	< 50		< 1	< 2	< 0.5					0.12	
Method Blank Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		2		< 0.01	< 0.01				< 1	< 2						< 0.01	
Method Blank Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	2		< 1		< 0.01	< 0.01				< 1	< 2						< 0.01	
Method Blank Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01				< 1	< 2						< 0.01	
Method Blank Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01				< 1	< 2						< 0.01	
Method Blank Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		1		< 0.01	0.02				< 1	< 2						< 0.01	

Activation Laboratories Ltd. Report: A07-5491

Quality Control

Analyte Symbol	Hf	Hg	Ir	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	
Unit Symbol	ppm	ppm	ppb	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit	1	1	5	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	
Analysis Method	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	
GXR-1 Meas				0.05	0.19	578		0.049					282					86						30	
GXR-1 Cert				0.0500	0.217	852		0.0650					275					80.0						32.0	
DH-1a Meas																									
DH-1a Cert																									
DNC-1 Meas				0.20	5.64	1040		0.022					127		0.26			142						15	
DNC-1 Cert				0.190	6.06	1150		0.0370					145		0.287			148						18.0	
GXR-4 Meas				4.50	1.77	166		0.125					233					97						16	
GXR-4 Cert				4.01	1.66	155		0.120					221					87.0						14.0	
GXR-2 Meas				1.47	0.85	1050		0.060					157					54						17	
GXR-2 Cert				1.37	0.850	1010		0.105					160					52.0						17.0	
SDC-1 Meas				2.62	0.90	839		0.045					163		0.54			99						33	
SDC-1 Cert				2.72	1.02	883		0.0690					183		0.606			102						40.0	
SCO-1 Meas				2.37	1.53	392		0.072					160		0.30			127						21	
SCO-1 Cert				2.30	1.64	410		0.0900					174		0.380			131						26.0	
GXR-6 Meas				1.90	0.59	1090		0.032					39					155						13	
GXR-6 Cert				1.87	0.609	1010		0.0350					35.0					186						14.0	
SY-2 Meas																									
SY-2 Cert																									
OREAS 13P Meas																									
OREAS 13P Cert																									
DMMAS-104 Meas							3.54			6.4	14.4					8.0	70.9		5		37.4	59	20	4.1	
DMMAS-104 Cert							3.43			6.2	14.1					8.3	71.9		6		36.6	62.9	18.8	4.3	
DMMAS-104 Meas							3.52			6.1	14.3					8.3	71.0		5		37.2	65	20	4.0	
DMMAS-104 Cert							3.43			6.2	14.1					8.3	71.9		5		36.6	62.9	18.8	4.3	
31504 Orig				0.34	0.16	68		< 0.001					13		0.08			13						18	
31504 Dup				0.32	0.16	64		0.002					12		0.07			13						17	
31505 Split	37	< 1	< 5	0.36	0.01	25	0.40	0.002	< 15	< 0.1	0.4	< 3	37	< 0.5	0.01	112	912	< 2	< 1	25	27.8	< 3	< 5	< 0.1	
Method Blank Method Blank				< 0.01	< 0.01	1		< 0.001					< 1		< 0.01			< 2		< 1				< 1	
Method Blank Method Blank				< 0.01	< 0.01	< 1		< 0.001					< 1		< 0.01			< 2		< 1				< 1	
Method Blank Method Blank				< 0.01	< 0.01	2		< 0.001					< 1		< 0.01			< 2		< 1				< 1	
Method Blank Method Blank				< 0.01	< 0.01	13		< 0.001					< 1		< 0.01			< 2		< 1				< 1	
Method Blank Method Blank				< 0.01	< 0.01	4		< 0.001					< 1		< 0.01			< 2		< 1				< 1	
Method Blank Method Blank																									

Quality Control

Analyte Symbol	Sn	Tb	Yb	Lu	Mass	U	Mass
Unit Symbol	%	ppm	ppm	ppm	g	ppm	g
Detection Limit	0.01	0.5	0.2	0.05		0.1	
Analysis Method	INAA	INAA	INAA	INAA	INAA	DNC	DNC
GXR-1 Meas							
GXR-1 Cert							
DH-1a Meas						2630	
DH-1a Cert						2630	
DNC-1 Meas							
DNC-1 Cert							
GXR-4 Meas							
GXR-4 Cert							
GXR-2 Meas							
GXR-2 Cert							
SDC-1 Meas							
SDC-1 Cert							
SCO-1 Meas							
SCO-1 Cert							
GXR-6 Meas							
GXR-6 Cert							
SY-2 Meas						283	
SY-2 Cert						284	
OREAS 13P Meas							
OREAS 13P Cert							
DMMAS-104 Meas			3.3	0.51			
DMMAS-104 Cert			3.0	0.4			
DMMAS-104 Meas			3.1	0.48			
DMMAS-104 Cert			3.0	0.4			
31504 Ong							
31504 Dup							
31505 Split	< 0.01	0.7	1.6	< 0.05	26.7	901	1.012
Method Blank Method Blank							
Method Blank Method Blank							
Method Blank Method Blank							
Method Blank Method Blank							
Method Blank Method Blank							
Method Blank Method Blank							
Method Blank Method Blank						< 0.1	1.000

Quality Analysis ...



Innovative Technologies

Date Submitted: 13-Nov-07
Invoice No.: A07-5792 (i)
Invoice Date: 27-Dec-07
Your Reference: 180399 U GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

129 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT A07-5792 (i)

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "C. Douglas Read". The signature is written in a cursive, flowing style.

C. Douglas Read, B.Sc.
Laboratory Manager

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd.

Report: A07-5792 (i)

Analyte Symbol	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	U	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	ppm	g
Detection Limit	0.3	1	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	0.1	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	DNC	DNC
17215	< 0.3	11	< 0.3	3	84	7	85	0.01	7.67	1	< 2	0.89	2.84	0.36	172	0.015	113	0.14	17	26	32.7	1.012
17216	< 0.3	6	< 0.3	1	73	5	84	< 0.01	7.04	1	< 2	1.06	2.68	0.41	389	0.099	83	0.15	18	49	35.3	1.081
17217	0.8	2	< 0.3	1	202	4	72	< 0.01	8.04	1	< 2	0.81	3.08	0.20	358	0.036	96	0.11	9	35	1050	1.040
17218	< 0.3	10	< 0.3	5	151	13	96	0.02	7.27	3	54	1.18	2.00	0.48	277	0.013	65	0.15	15	23	70.9	1.051
17219	< 0.3	9	< 0.3	2	57	5	81	0.01	7.22	2	< 2	1.55	2.51	0.38	220	0.178	83	0.12	18	40	34.6	1.055
17220	< 0.3	1	< 0.3	< 1	63	3	75	< 0.01	7.71	1	< 2	0.33	3.56	0.27	138	0.022	87	0.11	7	20	19.9	1.079
17221	0.8	4	< 0.3	2	95	21	123	< 0.01	8.06	2	< 2	1.48	2.36	0.57	213	0.032	94	0.26	25	41	57.5	1.063
17222	3.6	6	< 0.3	58	467	2	81	< 0.01	5.60	3	< 2	0.86	1.74	0.17	193	0.046	43	0.10	5	625	479	1.053
17223	< 0.3	1	< 0.3	1	41	2	26	< 0.01	6.95	1	< 2	0.54	2.52	0.07	75	0.026	80	0.04	2	7	85.1	1.059
17224	< 0.3	5	< 0.3	4	261	1	31	< 0.01	4.85	3	15	0.41	2.32	0.04	74	0.099	31	0.03	2	> 1000	200	1.020
17225	< 0.3	7	< 0.3	< 1	70	7	108	< 0.01	7.79	< 1	< 2	0.78	2.90	0.39	86	0.041	123	0.20	23	172	26.7	1.038
17226	0.7	385	1.1	< 1	8	25	84	2.97	0.84	3	3	1.32	0.20	0.99	2630	0.021	5	0.03	20	9	0.9	1.067
17227	< 0.3	32	0.6	< 1	4	15	98	2.15	0.50	< 1	< 2	2.12	0.03	1.56	6550	0.026	4	0.06	21	8	0.4	1.033
17228	< 0.3	73	0.7	< 1	4	18	123	1.41	1.21	< 1	< 2	1.71	0.11	1.57	1680	0.015	10	0.10	53	11	0.1	1.059
17229	< 0.3	15	< 0.3	1	244	4	54	0.02	7.87	1	< 2	0.66	2.70	0.26	118	0.055	112	0.11	11	25	223	1.019
17230	< 0.3	5	< 0.3	< 1	332	3	38	0.01	7.90	2	< 2	0.73	3.08	0.21	155	0.066	131	0.09	8	33	45.1	1.017
17231	< 0.3	24	< 0.3	< 1	115	7	122	0.02	7.23	2	< 2	1.59	3.48	0.46	191	0.176	146	0.13	16	35	76.1	1.082
17232	< 0.3	2	< 0.3	< 1	28	2	19	< 0.01	4.78	5	< 2	0.61	2.18	0.04	165	0.009	28	0.02	< 2	7	226	1.031
17233	0.6	105	0.5	2	15	23	44	2.40	4.83	1	< 2	1.70	0.64	1.34	853	0.020	61	0.20	61	8	3.5	1.040
17234	0.6	23	< 0.3	< 1	22	7	10	1.30	6.46	2	< 2	0.67	1.44	0.11	205	0.152	21	0.07	12	10	13.7	1.051
17235	0.4	16	< 0.3	< 1	93	31	84	0.04	8.42	2	< 2	1.33	4.09	0.93	371	0.133	381	0.26	47	24	357	1.042
17236	< 0.3	3	< 0.3	< 1	13	2	12	< 0.01	2.12	2	< 2	0.08	1.46	0.03	108	0.007	10	0.02	2	19	187	1.066
17237	1.0	2	< 0.3	< 1	57	2	26	< 0.01	7.37	3	< 2	0.61	3.25	0.10	186	0.019	38	0.04	3	69	1390	1.052
17238	0.8	2	< 0.3	< 1	46	2	31	< 0.01	7.43	5	< 2	0.49	2.97	0.11	170	0.018	40	0.05	3	36	826	1.054
17239	< 0.3	24	0.5	< 1	48	28	282	< 0.01	6.99	11	< 2	1.91	2.84	1.35	1320	0.060	30	0.29	33	305	105	1.065
17240	< 0.3	3	< 0.3	8	46	3	19	< 0.01	5.56	4	< 2	0.87	0.93	0.08	114	0.034	15	0.04	4	313	53.3	1.029
17241	< 0.3	3	< 0.3	11	54	2	22	< 0.01	8.36	6	< 2	1.75	3.25	0.12	189	0.028	95	0.06	6	19	37.4	1.062
17242	1.3	2	< 0.3	< 1	109	2	19	< 0.01	7.03	3	< 2	1.35	1.13	0.06	146	0.003	100	0.05	4	27	126	1.081
17243	< 0.3	8	< 0.3	4	43	8	41	0.01	7.06	2	< 2	1.04	2.80	0.29	264	0.013	107	0.12	11	14	83.1	1.062
17244	1.0	9	0.9	< 1	23	4	110	< 0.01	1.89	< 1	< 2	0.24	0.52	0.10	757	0.003	24	0.23	37	18	23.8	1.033
17245	< 0.3	2	< 0.3	< 1	44	2	15	< 0.01	8.41	2	< 2	0.46	4.12	0.06	127	0.009	80	0.02	4	65	25.6	1.077
17246	< 0.3	13	< 0.3	< 1	91	33	84	0.03	7.74	1	< 2	0.92	4.06	0.80	298	0.025	201	0.21	44	4	43.8	1.057
17247	< 0.3	16	< 0.3	15	174	40	104	0.03	7.63	1	< 2	0.95	3.86	1.16	344	0.021	191	0.29	80	7	84.4	1.056
17248	< 0.3	2	< 0.3	1	84	4	43	< 0.01	4.55	< 1	< 2	0.30	4.39	0.23	96	0.059	103	0.14	15	103	29.9	1.038
31401	1.6	3	< 0.3	1	63	3	20	< 0.01	7.71	9	5	1.10	3.15	0.17	147	0.022	152	0.01	< 2	7	1670	1.015
31402	< 0.3	4	0.3	294	123	20	78	0.02	6.07	< 1	< 2	1.06	4.08	1.02	435	0.374	243	0.36	110	50	64.5	1.049
31403	0.4	2	< 0.3	22	103	2	5	< 0.01	6.63	2	< 2	1.62	1.23	0.03	30	0.003	319	0.01	< 2	2	44.9	1.073
31404	0.7	4	< 0.3	31	129	7	21	< 0.01	6.45	< 1	< 2	1.13	3.58	0.25	102	0.011	249	0.11	20	6	235	1.086
31405	< 0.3	2	< 0.3	4	142	6	24	< 0.01	7.03	1	< 2	2.46	2.83	0.35	192	0.516	248	0.07	25	69	48.9	1.056
31406	0.7	16	< 0.3	11	124	30	53	0.07	8.50	2	< 2	1.65	2.91	0.72	239	0.012	369	0.23	50	8	188	1.010
31407	0.8	9	< 0.3	< 1	148	20	64	0.02	4.63	2	< 2	0.51	2.26	0.64	298	0.002	155	0.25	43	15	230	1.041
31408	< 0.3	4	< 0.3	2	339	2	100	0.02	7.91	< 1	< 2	0.59	5.09	0.49	141	0.154	147	0.21	13	60	444	1.051
31409	< 0.3	15	< 0.3	2	33	4	73	0.01	7.97	8	< 2	1.93	0.82	0.30	321	0.020	59	0.11	12	58	22.6	1.040
31410	0.4	8	0.3	4	101	3	78	< 0.01	7.50	2	< 2	0.92	4.21	0.25	319	0.019	56	0.16	13	34	85.9	1.065
31411	0.3	8	< 0.3	4	100	3	103	< 0.01	4.56	3	< 2	0.52	4.79	0.15	263	0.020	38	0.13	9	22	74.2	1.080
31412	1.3	10	< 0.3	81	240	15	30	0.02	5.73	1	< 2	1.56	0.69	0.34	134	0.002	273	0.14	28	6	244	1.073
31413	0.8	16	< 0.3	62	261	24	66	0.05	5.99	2	< 2	1.44	1.64	1.00	302	0.057	235	0.20	54	38	207	1.043
31414	< 0.3	2	0.4	1	< 3	2	62	< 0.01	8.24	11	< 2	0.28	0.99	0.03	751	0.030	11	0.01	< 2	20	3.2	1.032
31415	< 0.3	4	< 0.3	< 1	9	2	15	0.02	9.51	155	< 2	0.39	4.65	0.10	681	0.111	107	0.02	7	< 1	4.1	1.068
31416	< 0.3	2	1.0	< 1	< 3	9	82	< 0.01	9.10	714	2	1.11	1.38	0.40	607	0.129	85	0.04	15	2	2.6	1.051
31417	< 0.3	2	1.2	< 1	< 3	4	37	< 0.01	6.47	170	< 2	3.77	0.87	0.15	1890	1.37	51	0.03	6	11	8.8	1.081
31418	< 0.3	3	< 0.3	< 1	18	2	51	< 0.01	5.53	6	4	0.31	2.57	0.02	120	0.008	10	0.03	< 2	15	7.5	1.080

Activation Laboratories Ltd. Report: A07-5792 (i)

Analyte Symbol	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	U	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	ppm	g
Detection Limit	0.3	1	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	0.1	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	DNC	DNC
31419	< 0.3	6	< 0.3	2	163	4	64	0.02	8.63	4	< 2	2.03	2.09	0.25	136	0.100	98	0.13	8	184	85.2	1.020
31420	< 0.3	2	< 0.3	< 1	51	2	56	< 0.01	7.22	2	< 2	0.48	4.86	0.16	121	0.019	79	0.10	4	35	9.6	1.063
31421	< 0.3	2	< 0.3	< 1	61	2	61	< 0.01	7.01	3	8	0.50	3.94	0.09	241	0.013	30	0.07	4	59	142	1.039
31422	< 0.3	3	< 0.3	2	68	2	61	< 0.01	7.49	3	5	0.64	4.77	0.10	163	0.012	32	0.06	3	61	158	1.085
31506	< 0.3	10	< 0.3	241	248	3	117	0.02	4.39	< 1	< 2	0.84	2.15	0.52	381	0.153	54	0.15	49	71	108	1.011
31507	< 0.3	2	< 0.3	2	96	6	76	< 0.01	6.78	< 1	< 2	0.57	4.04	0.25	94	0.155	90	0.10	7	81	30.7	1.045
31508	< 0.3	2	< 0.3	5	86	1	78	< 0.01	6.19	< 1	< 2	0.44	3.37	0.20	74	0.114	87	0.09	6	68	29.0	1.048
31509	< 0.3	3	< 0.3	< 1	77	1	34	< 0.01	7.28	< 1	< 2	0.30	4.96	0.06	30	0.055	112	0.04	3	15	21.9	1.048
31510	< 0.3	2	< 0.3	< 1	86	1	22	< 0.01	6.21	< 1	< 2	0.35	4.69	0.04	36	0.045	91	0.03	< 2	15	34.4	1.045
31511	0.4	4	< 0.3	2	388	2	52	< 0.01	6.55	< 1	< 2	0.22	4.21	0.14	51	0.032	89	0.09	4	29	759	1.044
31512	< 0.3	5	< 0.3	< 1	80	2	37	0.02	6.35	< 1	< 2	0.98	4.99	0.14	73	0.297	108	0.06	4	69	84.6	1.015
31513	0.5	24	< 0.3	1	123	3	72	0.12	8.01	1	< 2	0.37	3.99	0.25	71	0.038	125	0.15	6	26	45.9	1.043
31514	< 0.3	5	< 0.3	< 1	71	2	34	< 0.01	6.62	1	< 2	0.62	2.96	0.06	46	0.017	116	0.04	2	10	127	1.051
31515	< 0.3	28	< 0.3	2	202	2	75	0.07	6.69	1	< 2	0.34	5.19	0.27	105	0.039	124	0.16	7	16	112	1.084
31516	< 0.3	2	< 0.3	< 1	88	2	19	< 0.01	6.13	< 1	< 2	0.22	3.30	0.05	36	0.015	115	0.03	< 2	9	318	1.056
31517	< 0.3	3	< 0.3	< 1	108	2	22	< 0.01	6.82	< 1	< 2	0.26	3.53	0.05	36	0.017	122	0.03	< 2	10	318	1.070
31518	< 0.3	2	< 0.3	< 1	184	2	18	< 0.01	7.53	< 1	< 2	0.35	5.02	0.05	34	0.028	152	0.03	< 2	22	333	1.068
31519	< 0.3	1	< 0.3	< 1	120	1	27	< 0.01	6.84	< 1	< 2	0.35	4.51	0.07	36	0.029	128	0.04	2	16	168	1.081
31520	< 0.3	2	< 0.3	< 1	249	2	134	< 0.01	6.57	< 1	< 2	0.32	6.34	0.42	117	0.040	147	0.22	11	24	403	1.082
31521	< 0.3	5	< 0.3	< 1	41	2	26	< 0.01	5.61	2	< 2	1.02	2.74	0.09	45	0.061	117	0.05	3	21	18.9	1.065
31522	< 0.3	7	< 0.3	2	291	2	64	0.01	6.33	< 1	< 2	0.30	6.14	0.23	73	0.041	153	0.12	6	17	130	1.039
31523	< 0.3	4	< 0.3	2	232	2	54	< 0.01	6.50	< 1	< 2	0.19	4.99	0.21	66	0.016	154	0.09	7	15	329	1.084
31524	< 0.3	7	< 0.3	< 1	259	2	47	< 0.01	7.61	1	< 2	0.88	6.14	0.21	82	0.227	178	0.07	5	73	351	1.049
31525	< 0.3	7	0.3	< 1	561	2	219	0.02	5.87	< 1	< 2	0.29	5.07	0.80	230	0.043	106	0.44	22	52	538	1.039
31526	< 0.3	6	0.4	< 1	324	4	315	0.02	5.03	< 1	< 2	0.38	4.92	1.23	376	0.031	96	0.70	38	22	174	1.028
31527	0.6	7	< 0.3	< 1	54	1	31	0.02	4.26	< 1	< 2	0.49	3.89	0.11	71	0.005	102	0.06	3	3	36.9	1.082
31528	0.3	11	< 0.3	1	313	2	96	0.01	5.27	< 1	< 2	0.15	5.23	0.45	147	0.017	118	0.27	15	18	415	1.074
31529	1.1	17	< 0.3	< 1	962	3	104	0.02	4.83	< 1	< 2	0.25	4.50	0.30	124	0.042	100	0.16	9	74	1630	1.040
31530	< 0.3	7	< 0.3	< 1	196	2	156	0.01	6.47	< 1	< 2	0.21	4.86	0.57	171	0.011	121	0.17	10	18	180	1.076
31531	0.5	13	< 0.3	< 1	35	2	74	0.02	6.12	1	< 2	0.72	4.11	0.09	202	0.004	68	0.11	3	24	17.8	1.086
31532	< 0.3	9	< 0.3	< 1	228	2	62	0.01	6.44	< 1	< 2	0.24	4.92	0.14	77	0.034	140	0.08	4	32	375	1.070
31533	< 0.3	7	< 0.3	< 1	192	2	40	0.01	7.62	< 1	< 2	0.69	4.67	0.06	47	0.103	161	0.04	< 2	31	45.1	1.061
31534	0.6	15	< 0.3	60	658	3	112	0.01	6.73	< 1	< 2	0.64	5.42	0.51	168	0.218	114	0.28	18	100	780	1.071
31535	1.2	6	0.3	2	750	3	254	0.01	4.90	< 1	< 2	0.58	4.57	0.93	306	0.152	89	0.50	29	78	1700	1.070
31536	0.9	4	< 0.3	< 1	71	2	40	< 0.01	6.62	3	< 2	1.33	2.13	0.10	157	0.022	83	0.10	8	34	93.0	1.058
31537	< 0.3	7	< 0.3	3	70	2	44	< 0.01	5.86	< 1	< 2	0.64	5.56	0.16	196	0.030	93	0.13	8	11	37.6	1.035
31538	0.3	5	< 0.3	< 1	61	2	60	< 0.01	6.19	3	< 2	0.61	4.98	0.14	236	0.021	72	0.12	8	23	121	1.004
31539	0.8	4	< 0.3	4	59	2	46	< 0.01	7.00	2	< 2	0.57	3.99	0.14	185	0.015	67	0.09	6	19	750	1.029
31540	2.3	10	0.6	8	186	34	246	0.01	5.94	7	< 2	4.11	3.76	2.20	1410	0.699	81	0.38	96	84	262	1.076
31541	< 0.3	4	< 0.3	< 1	58	3	83	< 0.01	6.63	1	< 2	0.45	5.05	0.22	263	0.022	76	0.17	10	23	44.2	1.001
361677	1.0	4	< 0.3	2	69	4	81	< 0.01	6.72	1	< 2	0.70	5.06	0.26	159	0.022	102	0.16	8	20	685	1.052
361678	4.4	9	< 0.3	2	122	4	59	< 0.01	7.04	1	< 2	0.60	4.81	0.18	105	0.027	112	0.11	4	27	3610	1.040
361679	2.1	7	< 0.3	2	215	3	53	< 0.01	6.37	< 1	< 2	0.48	6.12	0.15	163	0.039	112	0.10	4	60	1410	1.061
361680	< 0.3	5	< 0.3	< 1	46	7	102	< 0.01	6.38	< 1	< 2	0.50	5.19	0.37	209	0.013	93	0.21	16	17	37.9	1.068
361681	< 0.3	5	< 0.3	1	29	3	37	< 0.01	1.00	< 1	< 2	0.04	0.91	0.16	74	0.004	10	0.12	10	1	291	1.076
361682	< 0.3	12	< 0.3	< 1	137	11	80	< 0.01	4.79	< 1	< 2	0.46	5.44	0.27	668	0.044	109	0.18	19	40	71.7	1.066
361683	0.7	8	< 0.3	10	88	3	43	< 0.01	5.18	< 1	< 2	0.41	4.83	0.19	416	0.050	75	0.12	8	47	56.6	1.062
361684	0.8	13	< 0.3	10	84	2	49	< 0.01	4.95	< 1	< 2	0.38	4.81	0.20	746	0.051	72	0.12	8	52	52.3	1.065
361685	1.8	37	< 0.3	16	146	7	34	0.04	5.41	2	< 2	0.31	3.19	0.42	286	0.076	42	0.24	10	92	123	1.076
361686	< 0.3	5	< 0.3	< 1	90	1	14	< 0.01	3.99	2	< 2	1.32	0.29	0.08	656	0.034	45	0.02	< 2	58	95.0	1.040
361687	1.8	18	< 0.3	6	354	18	162	0.02	5.57	2	< 2	1.00	2.05	0.92	273	0.077	66	0.49	46	100	190	1.018
361688	1.9	42	0.6	10	481	22	143	0.06	11.2	2	< 2	1.69	3.86	1.58	2650	0.092	109	0.44	65	245	155	1.081

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Analyte Symbol	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	U	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	ppm	g
Detection Limit	0.3	1	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	0.1	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	DNC	DNC
361889	0.8	14	< 0.3	4	65	16	196	0.01	5.74	2	< 2	1.49	2.31	0.73	455	0.019	80	0.41	34	38	88.8	1.055
361890	0.8	7	< 0.3	3	79	13	91	< 0.01	3.58	2	< 2	0.85	1.81	0.30	336	0.017	69	0.20	21	12	80.8	1.076
361891	< 0.3	11	< 0.3	6	140	2	47	0.02	5.69	< 1	< 2	0.30	2.70	0.18	135	0.017	74	0.10	4	39	56.8	1.068
361892	< 0.3	21	< 0.3	5	447	16	110	0.01	5.36	1	< 2	0.65	2.54	0.66	185	0.068	100	0.34	45	123	276	1.047
361893	0.9	12	< 0.3	3	100	4	78	0.01	1.30	< 1	< 2	0.06	1.08	0.41	173	0.001	7	0.22	18	14	139	1.071
361894	< 0.3	22	< 0.3	< 1	90	16	117	0.01	5.86	2	< 2	1.48	1.47	0.54	299	0.020	108	0.08	14	15	44.8	1.047
361895	< 0.3	5	< 0.3	< 1	177	4	95	< 0.01	6.95	< 1	< 2	0.26	3.68	0.30	144	0.024	92	0.16	24	17	86.8	1.010
361896	< 0.3	8	< 0.3	< 1	107	2	41	< 0.01	3.55	< 1	< 2	0.37	2.12	0.11	67	0.009	50	0.06	5	303	123	1.066
361897	< 0.3	14	< 0.3	4	150	8	62	< 0.01	6.91	1	< 2	1.08	3.35	0.28	75	0.022	135	0.14	13	39	119	1.035
361898	3.2	9	0.3	62	1730	7	61	0.01	4.41	6	< 2	3.55	0.96	0.28	474	0.923	80	0.03	14	242	4400	1.044
361899	0.5	201	0.7	< 1	10	141	62	4.89	7.07	< 1	< 2	6.98	0.18	0.66	1390	0.020	82	0.53	257	15	16.8	1.043
361700	< 0.3	6	< 0.3	1	76	4	43	< 0.01	6.26	1	< 2	0.70	3.44	0.17	104	0.114	130	0.07	6	29	127	1.038
390706	1.0	7	< 0.3	8	251	6	60	0.02	2.75	2	< 2	0.59	2.13	0.24	334	0.183	35	0.12	19	57	278	1.018
390707	< 0.3	4	< 0.3	20	122	13	40	< 0.01	5.45	< 1	< 2	0.70	3.26	0.36	291	0.205	56	0.06	22	43	140	1.058
390708	0.6	4	< 0.3	< 1	41	2	31	< 0.01	5.97	3	< 2	0.43	4.05	0.10	182	0.026	71	0.03	4	12	538	1.049
390709	0.4	6	< 0.3	4	27	3	60	< 0.01	2.21	1	< 2	0.55	0.23	0.02	301	0.002	32	0.13	12	7	37.4	1.069
390710	0.7	2	0.7	< 1	31	5	160	< 0.01	4.01	2	< 2	1.06	0.28	0.03	971	< 0.001	53	0.18	12	8	32.5	1.043
390711	< 0.3	5	< 0.3	< 1	45	2	56	< 0.01	6.34	2	< 2	0.97	2.55	0.09	437	0.003	42	0.13	6	7	24.6	1.032
390712	< 0.3	6	< 0.3	< 1	69	2	27	< 0.01	5.86	< 1	< 2	0.28	3.76	0.09	124	0.007	115	0.04	3	16	47.6	1.074
390713	< 0.3	80	0.9	< 1	81	25	245	0.07	7.32	3	< 2	1.29	2.65	1.26	2100	0.082	151	0.54	108	275	65.4	1.037
390714	< 0.3	8	< 0.3	1	78	4	55	< 0.01	6.46	3	< 2	0.84	3.25	0.31	394	0.009	103	0.09	10	33	105	1.071
390715	< 0.3	9	< 0.3	2	67	4	50	< 0.01	6.13	2	< 2	0.81	3.43	0.07	273	0.005	48	0.14	22	121	43.7	1.084
390716	0.4	2	< 0.3	< 1	134	< 1	23	< 0.01	2.52	3	< 2	1.48	1.93	0.01	168	0.004	112	0.02	17	21	145	1.030
390717	< 0.3	5	< 0.3	72	155	3	25	< 0.01	5.47	3	< 2	0.98	1.56	0.20	260	0.045	103	0.06	13	498	78.0	1.064
31423 (extra)	0.5	8	< 0.3	3	367	3	68	0.04	6.14	2	< 2	0.32	3.09	0.20	88	0.065	84	0.13	5	40	717	1.013

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Quality Control

Analyte Symbol	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	U	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	ppm	g
Detection Limit	0.3	1	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	0.1	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	DNC	DNC
GXR-1 Meas	31.1	1140	3.3	15	751	43	747	0.26	2.24	1	1360	0.91	0.04	0.21	905	0.055	291		89	32		
GXR-1 Cert	31.0	1110	3.30	18.0	730	41.0	760	0.257	3.52	1.22	1380	0.960	0.0500	0.217	852	0.0650	275		80.0	32.0		
GXR-1 Meas	31.1	1130	3.2	15	753	42	756	0.23	1.95	1	1390	0.92	0.04	0.20	908	0.054	296		89	31		
GXR-1 Cert	31.0	1110	3.30	18.0	730	41.0	760	0.257	3.52	1.22	1380	0.960	0.0500	0.217	852	0.0650	275		80.0	32.0		
DH-1a Meas																						2630
DH-1a Cert																						2630
DH-1a Meas																						2620
DH-1a Cert																						2630
DNC-1 Meas	< 0.3	92		< 1	3	247	56	0.06	9.40	< 1	< 2	7.69	0.19	5.81	1060	0.024	129	0.29	143	17		
DNC-1 Cert	0.0270	96.0		0.700	6.30	247	66.0	0.0390	9.69	1.00	0.0200	8.06	0.190	6.06	1150	0.0370	145	0.287	148	18.0		
DNC-1 Meas	< 0.3	97		< 1	4	246	56	0.05	8.29	< 1	< 2	7.80	0.19	5.65	1050	0.024	130	0.27	142	16		
DNC-1 Cert	0.0270	96.0		0.700	6.30	247	66.0	0.0390	9.69	1.00	0.0200	8.06	0.190	6.06	1150	0.0370	145	0.287	148	18.0		
GXR-4 Meas	3.3	6540	0.8	326	44	42	74	1.94	7.11	3	11	1.12	2.76	1.74	154	0.125	212		95	16		
GXR-4 Cert	4.00	6520	0.860	310	52.0	42.0	73.0	1.77	7.20	1.90	19.0	1.01	4.01	1.66	155	0.120	221		87.0	14.0		
GXR-4 Meas	3.4	6500	0.9	313	47	42	76	1.81	6.08	2	12	1.15	3.53	1.69	157	0.125	220		95	15		
GXR-4 Cert	4.00	6520	0.860	310	52.0	42.0	73.0	1.77	7.20	1.90	19.0	1.01	4.01	1.66	155	0.120	221		87.0	14.0		
GXR-2 Meas	18.7	85	3.6	2	724	21	550	0.02	13.5	2	< 2	0.98	1.34	0.87	1010	0.061	155		57	18		
GXR-2 Cert	17.0	76.0	4.10	2.10	890	21.0	530	0.0313	16.5	1.70	0.690	0.930	1.37	0.850	1010	0.105	160		52.0	17.0		
GXR-2 Meas	17.5	78	3.5	2	670	19	516	0.02	10.5	2	< 2	0.92	1.30	0.76	932	0.054	144		52	16		
GXR-2 Cert	17.0	76.0	4.10	2.10	690	21.0	530	0.0313	16.5	1.70	0.690	0.930	1.37	0.850	1010	0.105	160		52.0	17.0		
SDC-1 Meas	< 0.3	28	0.3	< 1	22	37	103	0.06	8.77	3	< 2	1.13	1.91	1.00	881	0.050	173	0.07	29	37		
SDC-1 Cert	0.0410	30.0	0.0800	0.250	25.0	38.0	103	0.0650	8.34	3.00	2.60	1.00	2.72	1.02	883	0.0690	183	0.066	102	40.0		
SDC-1 Meas	< 0.3	32	0.3	< 1	25	38	106	0.06	7.33	3	< 2	1.16	2.27	1.01	920	0.051	173	0.14	47	37		
SDC-1 Cert	0.0410	30.0	0.0800	0.250	25.0	38.0	103	0.0650	8.34	3.00	2.60	1.00	2.72	1.02	883	0.0690	183	0.066	102	40.0		
SCO-1 Meas	0.3	27	0.5	< 1	29	29	101		7.72	2	< 2	2.09	2.10	1.68	406	0.080	167	0.34	136	23		
SCO-1 Cert	0.134	28.7	0.140	1.37	31.0	27.0	103		7.24	1.84	0.370	1.87	2.30	1.64	410	0.0900	174	0.380	131	26.0		
SCO-1 Meas	0.3	30	0.4	< 1	29	30	109		6.96	2	< 2	2.13	2.38	1.61	402	0.078	168	0.29	129	22		
SCO-1 Cert	0.134	28.7	0.140	1.37	31.0	27.0	103		7.24	1.84	0.370	1.87	2.30	1.64	410	0.0900	174	0.380	131	26.0		
GXR-6 Meas	0.4	67	1.3	< 1	93	28	131	0.02	14.1	1	< 2	0.19	1.68	0.63	1110	0.034	39		149	14		
GXR-6 Cert	1.30	86.0	1.00	2.40	101	27.0	118	0.0160	17.7	1.40	0.290	0.180	1.87	0.609	1010	0.0350	35.0		186	14.0		
GXR-6 Meas	0.4	88	1.4	< 1	98	28	133	0.02	12.1	1	< 2	0.20	1.86	0.61	1090	0.032	41		129	14		
GXR-6 Cert	1.30	66.0	1.00	2.40	101	27.0	118	0.0160	17.7	1.40	0.290	0.180	1.87	0.609	1010	0.0350	35.0		186	14.0		
SY-2 Meas																						284
SY-2 Cert																						284
SY-2 Meas																						280
SY-2 Cert																						284
OREAS 13P Meas		2420				2080																
OREAS 13P Cert		2500				2260																
OREAS 13P Meas		2570				2110																
OREAS 13P Cert		2500				2260																
BL-4a Meas																						1270
BL-4a Cert																						1250
BL-4a Meas																						1260
BL-4a Cert																						1250
17227 Dup	< 0.3	32	0.6	< 1	5	15	98	2.13	0.50	< 1	3	2.12	0.03	1.55	6510	0.026	4	0.06	21	8		
17227 Dup																						
17241 Dup	< 0.3	3	< 0.3	12	53	1	22	< 0.01	8.69	6	< 2	1.75	3.22	0.13	189	0.031	100	0.06	6	19		
17241 Dup																						
17244 Split	0.8	9	0.6	< 1	22	3	108	< 0.01	1.65	< 1	< 2	0.24	0.49	0.10	747	0.003	24	0.22	36	17	23.2	1.071
31414 Dup	< 0.3	2	0.3	1	< 3	2	66	< 0.01	8.43	11	< 2	0.29	1.04	0.03	808	0.031	11	0.01	< 2	20		
31414 Dup																						
31416 Split	< 0.3	2	1.0	< 1	< 3	10	89	< 0.01	8.20	785	3	1.09	1.48	0.44	558	0.120	89	0.04	18	2	1.9	1.059
31509 Split	< 0.3	2	< 0.3	< 1	70	< 1	33	< 0.01	6.21	1	< 2	0.28	3.36	0.06	34	0.049	104	0.04	3	14	21.5	1.002
31511 Dup	0.4	4	< 0.3	2	363	2	51	< 0.01	6.39	< 1	< 2	0.22	4.55	0.13	50	0.031	87	0.09	3	28		
31511 Dup																						
31532 Dup																						
31532 Dup	< 0.3	9	< 0.3	< 1	238	2	65	0.01	6.74	< 1	< 2	0.25	5.29	0.15	83	0.035	148	0.08	4	33		

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Quality Control																						
Analyte Symbol	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y	U	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm	ppm	g
Detection Limit	0.3	1	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1	0.1	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	DNC	DNC
31539 Split	0.7	4	< 0.3	< 1	62	2	52	< 0.01	7.51	2	< 2	0.62	3.16	0.15	209	0.016	72	0.08	5	21	740	1.080
31539 Orig	0.8	4	< 0.3	5	58	2	46	< 0.01	6.73	2	< 2	0.56	3.58	0.14	184	0.018	65	0.09	6	18		
31539 Dup	0.7	5	< 0.3	2	60	3	46	< 0.01	7.26	3	< 2	0.59	4.40	0.15	186	0.013	69	0.09	6	19		
361881 Dup																						
361681 Dup	< 0.3	5	< 0.3	1	30	2	37	< 0.01	1.00	< 1	< 2	0.04	0.90	0.16	74	0.004	10	0.12	10	1		
390707 Dup																						
390707 Dup	< 0.3	5	< 0.3	19	120	13	41	< 0.01	5.64	< 1	< 2	0.73	3.43	0.35	285	0.193	58	0.05	21	46		
390709 Split	0.4	8	< 0.3	4	28	3	56	< 0.01	2.89	1	< 2	0.55	0.24	0.02	327	0.001	33	0.14	13	7	37.2	1.046
31423 (extra) Split	0.4	8	< 0.3	< 1	445	2	79	0.02	7.24	< 1	< 2	0.35	3.95	0.22	79	0.079	96	0.15	5	49	712	1.021
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	1	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	2	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 1	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	2	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	2	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 1	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	2	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	2	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	6	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	27	< 0.001	< 1	< 0.01	< 2	< 1		
Method Blank Method Blank	< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01							< 0.1	1.000

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Sample ID	Au ppb	As ppm	Ba* ppm	Br ppm	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir* ppb	Na %	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Ta ppm	Th ppm	U ppm	W ppm	La* ppm	Ce* ppm
17215	-2	6.2	692	-0.5	-1	13	2	1.35	6	-1	-5	2.10	224	0.7	3.5	-3	-0.01	-0.5	79.8	33.1	-1	91.1	167
17216	-2	7.9	739	-0.5	4	15	5	2.24	13	-1	5	1.57	287	-0.1	5.8	-3	-0.01	3.5	58.0	38.3	-1	96.3	171
17217	-2	7.8	813	-0.5	-1	35	3	1.46	8	-3	-5	2.09	235	-0.1	3.6	-3	0.08	-0.5	63.1	1040	-1	99.1	134
17218	-2	6.3	449	-0.5	3	50	7	2.56	11	-1	-5	2.50	217	0.5	6.3	-3	-0.01	-0.5	72.0	67.5	-1	71.2	126
17219	7	1.5	655	-0.5	-1	21	4	2.09	9	-1	-5	1.62	231	0.3	4.3	-3	-0.01	4.2	59.7	35.0	-1	89.2	154
17220	-2	4.8	1030	-0.5	4	15	6	1.23	3	-1	-5	1.65	369	-0.1	3.5	-3	-0.01	-0.5	43.9	22.7	-1	57.2	97
17221	-2	4.8	-50	-0.5	6	40	5	2.37	17	-1	-5	2.72	232	-0.1	5.5	-3	-0.01	4.9	143	55.4	-1	158	279
17222	-2	7.1	2060	-0.5	-1	-6	6	1.14	90	-1	-5	1.85	151	-0.1	4.2	-3	-0.01	-0.5	395	423	16	351	730
17223	-2	3.9	561	-0.5	-1	21	4	0.47	-1	-1	-5	2.05	205	-0.1	1.1	-3	-0.01	-0.5	7.5	88.8	-1	13.0	20
17224	-2	6.8	1590	-0.5	-1	-6	4	0.65	9	-1	-5	1.65	162	-0.1	1.9	-3	-0.01	-0.5	561	184	-1	329	784
17225	-2	3.6	1120	-0.5	-1	-6	2	1.79	7	-1	-5	2.02	243	-0.1	4.4	-3	-0.01	-0.5	141	29.2	-1	201	402
17226	21	13.0	-50	1.2	16	41	4	13.0	-1	-1	-5	0.19	-15	0.5	3.2	-3	-0.01	-0.5	1.0	1.9	17	2.7	5
17227	8	41.8	-50	-0.5	7	50	-1	6.04	-1	-1	-5	0.08	-15	1.0	2.5	-3	-0.01	-0.5	1.0	2.4	-1	5.4	9
17228	-2	30.7	-50	1.4	10	38	-1	5.00	-1	-1	-5	0.19	32	1.1	5.9	-3	-0.01	-0.5	1.1	3.2	-1	6.2	10
17229	-2	1.5	376	-0.5	-1	15	2	1.10	3	-1	-5	2.18	229	-0.1	2.8	-3	-0.01	-0.5	35.8	221	-1	30.6	55
17230	-2	-0.5	2570	-0.5	4	23	3	0.95	2	-1	-5	2.61	242	-0.1	2.3	-3	-0.01	-0.5	31.4	451	-1	33.2	58
17231	-2	2.3	683	-0.5	8	15	3	1.68	3	-1	-5	3.18	205	-0.1	3.8	-3	-0.01	-0.5	30.6	81.5	-1	37.6	60
17232	-2	16.5	1580	-0.5	4	11	12	0.60	-1	-1	-5	2.43	288	0.4	1.3	-3	-0.01	-0.5	12.4	227	-1	16.3	24
17233	-2	3.6	-50	-0.5	3	56	11	5.36	-1	-1	-5	0.27	68	0.2	18.9	-3	-0.01	-0.5	6.9	6.0	13	19.6	34
17234	-2	5.2	-50	-0.5	-1	23	2	3.65	3	-1	-5	2.91	101	-0.1	2.3	-3	-0.01	18.2	25.1	15.9	-1	23.0	39
17235	-2	2.9	772	4.1	8	75	3	2.08	5	-1	-5	2.69	208	-0.1	7.6	-3	-0.01	-0.5	13.3	360	-1	24.9	37
17236	-2	11.1	-50	-0.5	2	14	6	0.63	1	-1	-5	0.64	99	-0.1	1.0	-3	-0.01	2.5	9.0	189	-1	10.2	-3
17237	-2	13.4	297	-0.5	4	41	12	0.89	4	-3	-5	2.11	404	0.5	2.0	-3	-0.01	-0.5	63.4	1410	-1	89.7	116
17238	-2	8.1	505	-0.5	4	16	14	0.81	3	-1	-5	2.21	392	-0.1	2.1	-3	-0.01	4.0	41.3	799	-1	55.3	71
17239	-2	18.8	921	-0.5	15	44	48	5.92	5	-1	-5	3.62	695	1.1	16.4	-3	-0.01	17.0	349	99.1	-1	175	413
17240	-2	10.5	-50	-0.5	-1	-6	6	0.57	2	-1	-5	2.72	115	-0.1	1.1	-3	-0.01	-0.5	126	46.1	-1	82.6	189
17241	-2	2.4	624	-0.5	-1	14	7	0.88	4	-1	-5	3.29	196	-0.1	2.2	-3	-0.01	-0.5	107	37.3	-1	10.2	17
17242	-2	2.0	406	-0.5	4	17	2	1.32	20	-1	-5	3.38	-15	0.3	0.9	-3	-0.01	-0.5	202	121	-1	6.8	10
17243	-2	1.9	505	-0.5	2	25	5	1.30	3	-1	-5	2.66	188	-0.1	2.0	-3	-0.01	-0.5	36.1	81.2	-1	22.3	38
17244	-2	1.9	158	-0.5	-1	17	1	6.78	13	-1	-5	0.75	77	-0.1	4.0	-3	-0.01	-0.5	53.1	25.1	-1	4.9	8
17244 Split Pulp Dup	-2	2.5	264	-0.5	2	18	2	6.70	13	-1	-5	0.72	63	0.2	3.8	-3	-0.01	-0.5	54.3	26.0	-1	3.9	8
17245	-2	5.5	436	-0.5	-1	13	5	0.72	7	-1	-5	2.51	250	-0.1	1.2	-3	-0.01	4.2	21.9	28.2	-1	16.1	34
17246	-2	-0.5	634	-0.5	9	69	3	2.28	5	-1	-5	2.22	210	-0.1	5.8	-3	-0.01	3.7	16.4	46.5	-1	23.8	42
17247	-2	3.2	525	-0.5	14	82	3	3.22	3	-1	-5	2.08	170	0.1	8.5	-3	-0.01	-0.5	32.7	84.3	-1	39.6	66
17248	-2	3.3	794	1.3	4	17	3	1.22	-1	-1	-5	1.12	123	-0.1	2.6	-3	-0.01	-0.5	297	35.0	3	342	649
31401	-2	4.2	523	5.5	3	38	3	0.53	3	-3	-5	2.65	106	0.3	0.6	-3	-0.01	-0.5	9.0	1660	-1	51.2	-3
31402	-2	-0.5	939	-0.5	7	53	12	2.65	5	-1	-5	0.95	193	-0.1	6.2	-3	-0.01	-0.5	374	64.4	-1	406	679
31403	-2	2.3	523	-0.5	-1	15	1	0.36	6	-1	-5	2.73	84	-0.1	0.4	-3	-0.01	-0.5	27.9	48.2	-1	8.1	12
31404	-2	3.7	600	-0.5	-1	16	4	0.87	10	-1	-5	2.23	103	-0.1	2.0	-3	-0.01	-0.5	108	243	-1	74.0	117
31405	-2	2.4	-50	-0.5	-1	6	5	1.20	4	-1	-5	2.36	119	-0.1	2.6	-3	-0.01	-0.5	314	54.4	-1	257	449
31406	-2	2.2	465	-0.5	10	70	5	1.95	11	-1	-5	2.90	161	-0.1	4.2	-3	-0.01	-0.5	152	192	-1	58.4	97
31407	-2	5.7	300	2.6	5	33	5	1.83	10	-1	-5	1.22	123	0.2	4.5	-3	-0.01	-0.5	57.0	247	-1	21.8	35
31408	-2	4.5	571	-0.5	-1	15	8	1.97	-1	-1	-5	1.85	332	-0.1	2.6	-3	-0.01	3.8	54.9	497	-1	22.2	-3

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Sample ID	Au ppb	As ppm	Ba* ppm	Br ppm	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir* ppb	Na %	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Ta ppm	Th ppm	U ppm	W ppm	La* ppm	Ce* ppm
31409	-2	19.6	-50	-0.5	-1	-6	9	1.97	6	-1	-5	3.56	107	0.4	4.4	-3	-0.01	-0.5	34.8	26.9	-1	40.5	76
31410	-2	12.1	697	-0.5	4	11	6	1.94	8	-1	-5	2.09	412	0.5	5.0	-3	-0.01	-0.5	100	93.6	-1	94.2	176
31411	-2	8.2	769	-0.5	-1	-5	7	1.63	6	-1	-5	2.02	456	0.4	5.3	-3	-0.01	-0.5	99.1	75.4	-1	111	208
31412	-2	4.9	1420	-0.5	6	38	3	1.19	16	-1	-5	2.61	-15	-0.1	2.2	-3	-0.01	-0.5	97.8	257	-1	16.1	20
31413	-4	4.3	425	-0.5	9	61	7	3.04	16	-1	-5	2.58	173	-0.1	8.3	-3	-0.01	-0.5	517	211	-1	590	1020
31414	-2	7.0	-50	3.0	-1	17	77	0.74	-1	-1	-5	4.68	661	4.0	2.8	-3	-0.01	27.0	13.3	4.9	10	10.0	18
31415	-2	39.7	192	-0.5	-1	18	74	0.80	2	-1	-5	1.78	6100	2.3	3.7	-3	-0.01	80.7	3.8	4.5	4	3.0	-3
31416	-2	250	-50	-0.5	4	14	376	1.30	-1	-1	-5	3.51	4760	11.2	7.3	-3	-0.01	212	2.2	3.3	21	1.3	-3
31416 Split Prep Dup	-2	264	-50	-0.5	3	14	369	1.31	-1	-1	-5	3.34	4900	14.2	7.5	-3	-0.01	201	1.8	3.4	30	1.3	-3
31417	-2	110	-50	-0.5	2	13	166	0.70	-1	-1	-5	4.08	3520	8.7	11.6	-3	-0.01	202	10.6	11.2	31	5.0	-3
31418	-2	3.5	-50	-0.5	-1	12	17	0.88	-1	-1	-5	3.28	762	-0.1	11.5	-3	-0.01	14.7	8.5	9.0	-1	13.8	25
31419	-4	5.1	-50	-0.5	-1	12	6	1.33	3	-1	-5	3.25	131	-0.1	3.0	-3	-0.01	5.8	497	83.5	-1	660	1180
31420	-2	3.9	546	-0.5	2	12	4	1.07	1	-1	-5	2.04	378	0.4	2.7	-3	-0.01	-0.5	17.5	10.4	-1	20.1	39
31421	-2	5.7	283	2.1	-1	13	11	1.08	4	-1	-5	2.25	782	0.4	3.5	-3	-0.01	5.7	36.4	144	-1	35.7	59
31422	-2	5.9	297	-0.5	2	16	7	1.14	4	-1	-5	2.30	827	0.3	3.4	-3	-0.01	5.2	47.5	167	-1	41.1	70
31506	-2	-0.5	542	-0.5	7	19	4	3.27	5	-1	-5	0.87	356	-0.1	9.2	-3	-0.01	-0.5	147	113	-1	103	201
31507	-2	4.6	644	-0.5	-1	25	4	1.20	2	-1	-5	1.69	292	0.4	1.5	-3	-0.01	-0.5	233	32.8	-1	258	447
31508	-2	3.5	655	-0.5	-1	15	3	1.12	2	-1	-5	1.60	260	-0.1	1.4	-3	-0.01	-0.5	184	27.1	-1	198	351
31509	-2	-0.5	693	-0.5	-1	11	3	0.45	-1	-1	-5	2.01	264	-0.1	0.7	-3	-0.01	-0.5	13.8	25.9	-1	9.7	11
31509 Split Pulp Dup	-2	2.3	771	-0.5	-1	10	4	0.52	-1	-1	-5	2.07	327	-0.1	0.6	-3	-0.01	-0.5	14.0	26.4	-1	9.8	15
31510	-2	2.7	358	-0.5	-1	14	2	0.56	2	-1	-5	1.89	213	-0.1	0.5	-3	-0.01	-0.5	29.0	38.6	-1	25.8	44
31511	-2	4.1	726	-0.5	-1	28	4	0.89	-1	-1	-5	1.59	278	-0.1	1.1	-3	-0.01	-0.5	64.6	770	-1	30.4	-3
31512	-2	4.6	767	-0.5	2	13	-1	0.88	5	-1	-5	1.77	265	-0.1	1.1	-3	-0.01	-0.5	38.8	80.6	-1	42.6	87
31513	-2	5.6	624	-0.5	5	12	4	1.67	9	-1	-5	2.18	276	-0.1	1.8	-3	-0.01	-0.5	83.0	49.5	-1	98.8	166
31514	-2	4.9	379	-0.5	-1	19	3	0.50	4	-1	-5	2.24	167	-0.1	0.7	-3	-0.01	-0.5	24.0	136	-1	29.4	49
31515	-2	6.0	460	-0.5	5	14	8	1.60	5	-1	-5	2.09	290	-0.1	2.0	-3	-0.01	-0.5	52.9	119	-1	45.0	80
31516	-2	-0.5	2100	-0.5	-1	18	2	0.51	1	-1	-5	1.66	243	-0.1	0.4	-3	-0.01	-0.5	16.9	324	-1	12.8	-3
31517	-2	2.3	498	-0.5	-1	14	3	0.36	-1	-1	-5	1.71	219	-0.1	0.4	-3	-0.01	-0.5	18.5	331	4	13.2	-3
31518	-2	1.8	316	-0.5	-1	23	3	0.44	2	-1	-5	2.06	259	-0.1	0.5	-3	-0.01	-0.5	41.8	337	-1	45.6	55
31519	-2	2.4	402	-0.5	-1	17	2	0.37	-1	-1	-5	1.71	285	-0.1	0.5	-3	-0.01	-0.5	17.0	161	-1	11.1	-3
31520	-2	-0.5	440	-0.5	5	21	6	1.78	-1	-1	-5	1.51	301	-0.1	2.2	-3	-0.01	1.8	35.2	403	-1	25.8	-3
31521	-2	1.6	306	-0.5	-1	14	3	0.63	-1	-1	-5	2.26	117	-0.1	0.7	-3	-0.01	-0.5	11.2	21.3	-1	15.7	28
31522	-2	3.6	306	-0.5	3	15	4	0.99	-1	-1	-5	1.67	345	-0.1	1.4	-3	-0.01	-0.5	19.7	134	-1	7.8	-3
31523	-2	3.2	507	-0.5	3	23	4	0.88	-1	-1	-5	1.55	225	-0.1	1.1	-3	-0.01	-0.5	24.0	316	-1	11.6	-3
31524	-2	2.8	632	-0.5	3	16	6	0.99	-1	-1	-5	2.03	376	-0.1	1.1	-3	-0.01	4.2	47.8	351	-1	24.2	-3
31525	-2	4.6	526	-0.5	5	17	8	2.74	1	-1	-5	1.20	332	0.3	4.2	-3	-0.01	-0.5	112	550	7	23.7	-3
31526	-2	4.3	660	-0.5	7	13	14	4.47	1	-1	-5	1.20	507	0.1	7.0	-3	-0.01	3.9	58.5	183	-1	12.7	18
31527	-2	1.6	-50	-0.5	-1	20	3	0.62	8	-1	-5	2.23	148	0.3	0.7	-3	-0.01	-0.5	11.2	44.9	-1	11.9	13
31528	-2	-0.5	-50	-0.5	2	27	6	1.77	-1	-1	-5	1.45	303	0.3	2.4	-3	-0.01	-0.5	75.6	446	6	17.0	-3
31529	-2	1.9	-50	-0.5	3	57	6	1.23	-1	-1	-5	1.06	189	-0.1	1.8	-3	-0.01	-0.5	144	1530	8	54.2	-4
31530	-2	2.4	-50	-0.5	3	18	7	1.96	-1	-1	-5	1.38	338	-0.1	2.7	-3	-0.01	-0.5	34.8	183	-1	10.7	-3
31531	-2	0.8	880	-0.5	-1	22	2	1.35	8	-1	-5	2.03	178	-0.1	1.5	-3	-0.01	-0.5	23.0	21.5	-1	46.5	83
31532	-2	1.9	-50	-0.5	-1	21	4	0.74	1	-1	-5	1.75	269	-0.1	0.9	-3	0.06	-0.5	47.3	381	-1	16.6	-3

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Sample ID	Au ppb	As ppm	Ba* ppm	Br ppm	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir* ppb	Na %	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Ta ppm	Th ppm	U ppm	W ppm	La* ppm	Ce* ppm
31533	-2	1.6	779	-0.5	3	17	4	0.46	-1	-1	-5	2.13	248	-0.1	0.3	-3	-0.01	-0.5	22.6	50.7	-1	10.0	14
31534	-2	-0.5	1214	-0.5	-1	31	10	2.02	6	-1	-5	1.36	288	-0.1	2.7	-3	-0.01	3.0	295	750	-1	217	337
31535	-2	-0.5	-50	-0.5	6	49	11	3.50	3	-1	-5	0.90	354	-0.1	5.8	-3	-0.01	4.3	108	1630	12	68.6	-3
31536	-2	1.6	-50	5.9	-1	16	2	1.12	12	-1	-5	3.71	172	-0.1	1.9	-3	-0.01	3.1	146	102	3	29.9	48
31537	-2	2.0	476	10.7	-1	17	2	1.09	5	-1	-5	2.09	239	-0.1	2.0	-3	-0.01	-0.5	67.4	41.9	-1	46.1	81
31538	-2	1.6	489	-0.5	3	12	13	1.04	6	-1	-5	2.27	299	0.2	2.6	-3	-0.01	-0.5	41.3	122	-1	40.6	75
31539	-2	-0.5	-50	-0.5	-1	20	11	1.06	5	-1	-5	2.28	369	-0.1	2.8	-3	-0.01	-0.5	46.9	760	-1	62.7	95
31539 Split Pulp Dup	-2	3.9	-50	-0.5	-1	24	11	1.01	7	-1	-5	2.39	343	0.4	3.0	-3	-0.01	-0.5	49.2	750	-1	65.6	79
31540	-2	-0.5	298	-0.5	18	37	117	7.50	30	-1	-5	1.38	623	2.1	19.8	-3	-0.01	5.8	48.2	271	5	26.0	45
31541	-2	2.0	397	-0.5	2	8	8	1.36	-1	-1	-5	1.71	362	-0.1	3.9	-3	-0.01	2.0	17.1	47.0	-1	16.3	29
361677	-2	2.9	424	-0.5	3	18	4	1.33	9	-1	-5	1.76	265	-0.1	3.5	-3	-0.01	-0.5	64.5	704	-1	88.9	125
361678	-28	12.7	-200	-2.5	6	81	3	1.20	12	-5	-20	2.05	156	-0.2	2.5	-6	-0.05	-1.0	102	3630	-8	183	266
361679	-17	7.6	1090	-1.7	-2	35	-1	0.87	20	-5	-20	1.76	249	-0.1	2.3	-4	-0.05	-1.0	290	1430	-6	317	436
361680	-2	1.9	378	-0.5	3	8	5	1.88	1	-1	-5	1.51	338	0.3	5.1	-3	-0.01	-0.6	41.3	41.0	-1	44.8	83
361681	-2	-0.5	-50	-0.5	2	23	1	0.81	-1	-1	-5	0.12	68	-0.1	1.8	-3	-0.01	-0.5	2.1	301	-1	11.9	-3
361682	-2	3.1	760	-0.5	4	21	4	1.81	3	-1	-5	1.92	317	0.3	8.1	-3	-0.01	-0.5	113	74.3	-1	120	231
361683	5	-0.5	663	-0.5	-1	15	2	1.27	11	-1	-5	1.22	236	-0.1	4.4	-3	-0.01	-0.5	104	59.1	-1	109	203
361684	-2	-0.5	430	-0.5	-1	18	2	1.48	10	-1	-5	1.23	212	-0.1	5.5	-3	-0.01	-0.5	103	58.7	-1	108	187
361685	-2	-0.5	-50	2.0	-1	23	3	3.60	38	-1	-5	1.71	158	-0.1	9.8	-3	-0.01	4.3	146	137	-1	22.6	47
361686	-2	3.7	-50	-0.5	-1	26	-1	0.90	15	-1	-5	1.65	-15	-0.1	3.6	-3	-0.01	-0.5	98.9	107	-1	111	191
361688	-3	-0.5	-50	-0.5	8	123	7	6.44	18	-1	-5	2.21	268	-0.1	24.9	-3	-0.01	-0.5	210	144	-1	215	391
361687	-4	-0.5	-50	-0.5	5	92	8	3.45	28	-1	-5	1.48	195	-0.1	8.0	-4	-0.01	-0.5	341	176	-1	434	739
361689	-2	1.9	-50	-0.5	7	43	9	3.55	12	-1	-5	2.56	342	0.2	9.8	-3	-0.01	2.5	59.6	93.4	-1	69.0	110
361690	-2	3.6	573	-0.5	5	39	3	2.15	13	-1	-5	2.39	291	-0.1	5.2	-3	-0.01	-0.5	64.1	83.5	-1	63.7	107
361691	-2	2.1	685	-0.5	3	16	4	1.28	7	-1	-5	1.32	313	-0.1	2.0	-3	-0.01	-0.5	116	57.4	-1	110	194
361692	-6	-3.3	1680	-0.5	-4	56	5	2.70	19	-1	-25	1.38	146	-0.1	5.7	-3	-0.05	-0.9	647	264	-7	812	1320
361693	-2	2.6	-50	-0.5	2	34	4	2.03	22	-1	-5	0.12	136	-0.1	4.5	-3	-0.01	1.7	35.0	136	-1	10.5	13
361694	-2	3.7	471	-0.5	7	93	5	2.56	4	-1	-5	2.16	147	-0.1	6.5	-3	-0.01	-0.5	20.0	47.2	-1	22.5	39
361695	-2	1.9	832	-0.5	5	21	3	1.45	5	-1	-5	1.78	360	0.2	3.2	-3	-0.01	-0.5	41.6	85.6	-1	48.3	83
361696	-2	3.8	-50	-0.5	2	10	3	0.84	19	-1	-5	1.30	178	0.4	2.2	-3	-0.02	2.7	107	122	-1	72.4	164
361697	-2	-0.5	747	-0.5	-1	37	3	1.34	17	-1	-5	2.34	176	-0.1	2.3	-3	-0.02	-0.5	108	119	-1	108	197
361698	-28	-3.9	-200	-3.9	12	-22	9	1.28	-2	-5	-20	2.05	111	1.1	3.6	-10	-0.05	5.0	146	4440	-1	157	-3
361699	-2	2.9	-50	4.4	58	196	4	9.25	1	-1	-5	0.54	50	0.6	28.1	-3	-0.01	-0.5	2.2	21.0	-1	4.2	8
361700	-2	2.5	-50	-0.5	2	17	2	0.81	3	-1	-5	2.12	277	-0.1	2.0	-3	-0.01	-0.5	16.0	136	-1	16.5	28
390706	-3	7.3	-55	6.9	4	25	5	1.88	19	-1	-5	1.38	165	-0.1	4.1	-3	-0.01	3.2	168	278	9	172	273
390707	-2	4.1	469	14.2	5	27	2	1.57	2	-1	-5	2.25	274	-0.1	3.9	-3	-0.01	-0.5	12.2	150	-1	8.7	17
390708	-2	-0.5	-50	-0.5	2	22	10	0.73	4	-1	-5	2.29	340	-0.1	2.6	-3	-0.01	4.6	33.4	570	7	47.5	27
390709	-2	2.2	-50	-0.5	2	18	1	3.02	9	-1	-5	1.28	-15	-0.1	1.3	-3	-0.01	-0.5	80.4	44.4	-1	3.6	4
390709 Split Pulp Dup	-2	2.2	-50	-0.5	2	14	-1	3.16	8	-1	-5	1.30	-15	-0.1	1.1	-3	-0.01	-0.5	85.4	44.4	-1	3.2	5
390710	-2	3.5	160	-0.5	5	22	2	8.33	10	-1	-5	2.25	-15	-0.1	3.4	-3	-0.01	2.2	89.7	37.7	-1	3.7	5
390711	-2	-0.5	-50	-0.5	5	11	3	2.71	4	-1	-5	2.97	109	-0.1	2.3	-3	-0.01	-0.5	50.7	28.0	-1	5.3	7
390712	-2	-0.5	1270	-0.5	-1	7	2	0.65	4	-1	-5	1.93	291	-0.1	1.4	-3	-0.01	-0.5	29.7	53.5	-1	17.0	30
390713	-22	-3.3	759	-2.2	17	-6	11	11.4	9	-1	-10	3.46	227	0.7	16.7	-4	-0.01	-0.9	420	63.8	-2	469	1070

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Sample ID	Au	As	Ba*	Br	Co	Cr	Cs	Fe	Hf	Hg	Ir*	Na	Rb	Sb	Sc	Se	Sn	Ta	Th	U	W	La*	Ce*
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
390714	-2	4.8	-50	-0.5	2	14	9	1.42	2	-1	-5	2.54	177	0.2	3.6	-3	-0.01	2.5	48.7	110	-1	22.8	37
390715	-2	5.6	591	-0.5	-1	15	5	2.55	7	-1	-5	1.93	200	0.2	2.4	-3	-0.01	-0.5	57.1	48.6	-1	46.5	95
390716	-2	3.7	549	-0.5	-1	14	2	1.10	9	-1	-5	2.90	116	0.2	0.7	-3	-0.01	-0.5	110	156	-1	12.5	17
390717	-3	2.1	1160	-0.5	-1	-5	4	0.88	-1	-1	-5	2.53	103	-0.1	2.6	-3	-0.01	3.9	287	74.5	-1	233	474
31423 (extra)	-2	-0.5	627	-0.5	-1	19	4	1.22	-1	-1	-5	1.65	294	-0.1	1.4	-3	-0.01	-0.5	85.7	714	-1	44.6	-3
31423 (extra) Split Pulp Dup	-2	-0.5	679	-0.5	3	21	4	1.21	1	-1	-5	1.73	281	-0.1	1.1	-3	-0.01	2.1	86.3	718	-1	45.9	-3
BLANK	-2	-0.5	-50	-0.5	-1	-5	-1	-0.01	-1	-1	-5	-0.01	-15	-0.1	-0.1	-3	-0.01	-0.5	-0.2	-0.5	-1	-0.5	-3
DMMAS-104	212	1560	852	-0.5	46	97	-1	5.61	5	-1	-5	3.50	-15	6.3	14.8	-3	-0.01	-0.5	8.2	70.3	6	39.4	67
DMMAS-104	220	1530	870	-0.5	49	96	-1	5.66	5	-1	-5	3.23	-15	6.8	14.4	-3	-0.01	-0.5	8.3	70.7	8	39.0	64
DMMAS-104	231	1570	898	-0.5	48	98	-1	5.58	4	-1	-5	3.37	-15	6.1	14.2	-3	-0.01	-0.5	8.2	71.4	8	37.8	60
DMMAS-104	218	1550	886	-0.5	50	99	-1	5.58	5	-1	-5	3.43	-15	6.0	14.4	-3	-0.01	-0.5	8.2	71.3	7	38.3	60
DMMAS-104	234	1520	835	-0.5	47	98	-1	5.56	4	-1	-5	3.43	-15	6.2	14.4	-3	-0.01	-0.5	8.3	71.6	7	38.0	64
DMMAS104 Accepted	229	1570	850		49	95		5.61				3.43		6.2	14.1				8.3	71.9	6	36.6	63

Detection limits are elevated due to high concentration of U and REEs.

* U interference

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Sample ID	Nd*	Sm*	Eu	Tb	Yb	Lu*	Mass
	ppm	ppm	ppm	ppm	ppm	ppm	g
17215	40	10.1	-0.2	3.6	1.5	-0.05	23.32
17216	43	10.5	-0.2	2.7	4.4	0.80	27.00
17217	-5	-0.1	-0.2	-0.5	3.6	-0.05	24.86
17218	22	7.9	-0.2	2.1	1.4	-0.05	26.62
17219	38	9.4	-0.2	-0.5	2.7	0.47	25.67
17220	29	6.6	0.9	-0.5	1.2	-0.05	26.57
17221	57	15.9	-0.2	2.8	2.8	-0.05	23.10
17222	121	57.3	-0.2	27.1	122	18.1	25.41
17223	-5	-0.1	1.4	-0.5	0.9	-0.05	25.96
17224	141	63.1	-0.2	29.9	189	27.6	24.02
17225	122	31.7	0.7	7.9	10.9	1.51	20.82
17226	-5	0.3	-0.2	-0.5	1.1	0.22	29.48
17227	-5	0.6	0.4	-0.5	0.7	0.14	26.79
17228	7	0.8	0.3	-0.5	1.2	0.20	23.74
17229	-5	-0.1	-0.2	-0.5	1.9	-0.05	22.52
17230	-5	-0.1	-0.2	-0.5	2.5	-0.05	22.27
17231	16	3.6	-0.2	-0.5	2.4	-0.05	22.69
17232	-5	-0.1	-0.2	-0.5	1.7	-0.05	23.13
17233	-5	2.0	0.4	-0.5	1.5	0.20	26.24
17234	14	2.4	-0.2	-0.5	1.0	0.19	26.16
17235	-5	-0.1	-0.2	-0.5	2.2	-0.05	24.73
17236	-5	-0.1	-0.2	-0.5	2.1	-0.05	23.25
17237	-5	-0.1	-0.2	-0.5	7.1	-0.05	22.28
17238	-5	-0.1	-0.2	-0.5	3.7	-0.05	25.52
17239	50	31.9	-0.2	18.8	103	15.0	25.35
17240	23	14.3	-0.2	7.5	71.8	10.6	28.62
17241	-5	1.0	0.9	-0.5	2.3	0.42	22.77
17242	-5	-0.1	-0.2	-0.5	5.0	0.74	25.23
17243	-5	1.3	-0.2	-0.5	1.5	-0.05	25.76
17244	-5	-0.1	0.6	-0.5	4.5	0.70	26.44
17244 Split Pulp Dup	-5	-0.1	-0.2	-0.5	4.3	0.69	26.20
17245	-5	2.4	0.4	-0.5	14.3	2.40	23.48
17246	7	1.4	0.9	-0.5	0.4	-0.05	24.85
17247	14	2.2	-0.2	-0.5	0.5	-0.05	24.64
17248	177	43.3	0.5	5.0	2.8	-0.05	23.92
31401	-5	-0.1	-0.2	-0.5	-0.2	-0.05	22.97
31402	181	27.1	1.5	2.9	3.6	-0.05	27.86
31403	-5	-0.1	1.0	-0.5	-0.2	-0.05	25.69
31404	18	-0.1	-0.2	-0.5	-0.2	-0.05	27.56
31405	110	22.2	1.3	3.3	4.1	0.56	25.67
31406	27	3.2	-0.2	-0.5	1.2	-0.05	25.95
31407	-5	-0.1	-0.2	-0.5	0.9	-0.05	25.05
31408	-5	-0.1	-0.2	2.9	2.3	-0.05	24.71

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Sample ID	Nd*	Sm*	Eu	Tb	Yb	Lu*	Mass
	ppm	ppm	ppm	ppm	ppm	ppm	g
31409	11	4.8	-0.2	2.6	7.3	1.24	23.29
31410	40	8.9	-0.2	-0.5	2.6	0.45	24.04
31411	46	10.6	-0.2	2.3	2.6	-0.05	25.10
31412	-5	-0.1	-0.2	-0.5	0.8	-0.05	24.00
31413	244	41.2	-0.2	3.5	-0.2	-0.05	25.78
31414	-5	3.0	-0.2	-0.5	2.0	0.17	26.05
31415	-5	0.2	-0.2	-0.5	-0.2	-0.05	27.44
31416	-5	0.1	-0.2	-0.5	-0.2	-0.05	25.03
31416 Split Prep Dup	-5	-0.1	-0.2	-0.5	-0.2	-0.05	24.88
31417	-5	0.5	-0.2	-0.5	2.4	0.35	25.09
31418	8	1.9	-0.2	-0.5	3.4	0.49	24.26
31419	291	83.8	1.2	14.2	6.0	1.00	25.92
31420	7	2.6	0.4	-0.5	4.1	0.65	25.97
31421	-5	3.2	-0.2	1.8	4.5	-0.05	26.14
31422	13	3.6	-0.2	2.7	4.4	-0.05	25.38
31506	54	13.3	-0.2	2.8	5.6	-0.06	24.56
31507	132	30.8	1.0	6.1	2.9	0.33	24.94
31508	90	23.6	0.9	4.6	2.5	-0.05	26.43
31509	-5	1.3	0.6	-0.5	0.7	-0.05	25.73
31509 Split Pulp Dup	-5	1.9	0.6	-0.5	0.6	-0.05	24.51
31510	9	3.2	0.8	-0.5	0.6	-0.05	24.04
31511	-5	-0.1	-0.2	-0.5	1.4	-0.05	23.05
31512	28	10.3	-0.2	4.4	3.0	0.46	25.19
31513	40	9.6	1.0	1.9	0.8	-0.05	24.35
31514	-5	-0.1	-0.2	0.9	-0.2	-0.05	26.10
31515	13	3.9	-0.2	-0.5	0.8	-0.05	24.39
31516	-5	-0.1	-0.2	-0.5	0.3	-0.05	24.43
31517	-5	-0.1	2.0	-0.5	0.5	-0.05	24.87
31518	-5	-0.1	2.4	-0.5	0.7	-0.05	25.04
31519	-5	-0.1	0.5	-0.5	0.8	-0.05	29.13
31520	-5	-0.1	2.2	-0.5	1.1	-0.05	25.09
31521	-5	2.9	0.3	-0.5	1.0	-0.05	25.02
31522	-5	-0.1	1.8	-0.5	0.6	-0.05	24.52
31523	-5	-0.1	2.0	-0.5	0.6	-0.05	26.98
31524	-5	-0.1	2.2	3.1	2.7	-0.05	25.19
31525	-5	-0.1	2.1	2.5	2.9	-0.05	26.94
31526	-5	-0.1	1.9	2.2	1.8	-0.05	24.39
31527	-5	-0.1	1.0	-0.5	0.6	-0.05	25.52
31528	-5	-0.1	1.9	1.4	1.2	-0.05	24.48
31529	-5	-0.1	2.1	3.3	3.9	-0.05	26.90
31530	-5	-0.1	1.4	-0.5	0.8	-0.05	26.51
31531	21	5.6	1.2	-0.5	2.2	0.37	26.70
31532	-5	-0.1	2.0	-0.5	1.7	-0.05	25.01

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Sample ID	Nd*	Sm*	Eu	Tb	Yb	Lu*	Mass
	ppm	ppm	ppm	ppm	ppm	ppm	g
31533	-5	3.2	0.9	-0.5	1.4	-0.05	25.02
31534	81	17.9	3.6	6.2	2.7	-0.05	23.80
31535	-5	-0.1	-0.2	3.1	3.4	-0.05	24.18
31536	-5	4.5	1.0	-0.5	6.3	1.11	24.59
31537	20	5.5	-0.2	-0.5	0.9	-0.05	25.94
31538	10	3.2	-0.2	-0.5	4.7	-0.05	25.30
31539	-5	-0.1	0.7	-0.5	1.8	-0.05	24.74
31539 Split Pulp Dup	-5	-0.1	-0.2	-0.5	2.1	-0.05	24.76
31540	-5	4.2	-0.2	3.0	7.3	-0.05	25.36
31541	-5	1.4	0.3	-0.5	2.9	0.50	26.27
361677	-5	-0.1	-0.2	-0.5	1.0	-0.05	24.85
361678	-5	-0.1	3.2	-0.6	0.9	-0.40	24.83
361679	218	23.4	-0.4	-0.6	1.9	-0.20	23.83
361680	15	4.5	0.6	-0.5	0.9	-0.05	24.51
361681	-5	-0.1	-0.2	-0.5	-0.2	-0.05	28.47
361682	51	15.0	1.0	3.3	4.9	0.76	26.57
361683	51	11.3	0.8	1.9	6.2	1.05	25.74
361684	53	11.1	1.0	2.0	8.7	1.49	26.09
361685	-5	3.0	1.2	1.8	15.3	2.44	23.78
361686	37	11.0	0.9	1.7	9.1	1.74	24.97
361688	65	21.0	0.9	5.2	29.3	4.79	27.52
361687	198	52.2	3.3	7.0	4.0	-0.05	22.69
361689	14	7.1	0.8	-0.5	3.9	-0.05	25.26
361690	14	6.4	0.8	-0.5	4.1	0.81	25.34
361691	57	14.0	0.7	1.9	1.8	-0.05	25.45
361692	279	66.1	-0.4	6.4	4.8	-0.20	24.91
361693	-5	-0.1	1.7	-0.5	1.6	-0.05	25.89
361694	7	1.6	0.6	-0.5	1.4	0.29	25.58
361695	20	4.9	1.0	-0.5	1.0	-0.05	25.47
361696	32	15.6	1.0	9.0	40.8	6.39	25.95
361697	51	13.7	1.2	-0.5	1.9	-0.05	24.53
361698	-5	-0.1	-0.2	5.7	21.0	-0.40	26.63
361699	-5	1.3	0.7	-0.5	1.7	0.38	31.25
361700	-5	-0.1	1.0	-0.5	2.8	-0.05	25.04
390706	51	16.2	1.8	4.7	9.5	1.45	23.27
390707	-5	-0.1	-0.2	1.0	4.4	-0.05	23.36
390708	-5	-0.1	1.2	-0.5	1.4	-0.05	23.16
390709	-5	-0.1	-0.2	-0.5	1.6	0.17	25.12
390709 Split Pulp Dup	-5	-0.1	-0.2	-0.5	1.8	0.22	23.12
390710	-5	-0.1	0.6	-0.5	2.0	-0.05	27.29
390711	-5	-0.1	-0.2	-0.5	1.3	-0.05	26.17
390712	8	2.5	-0.2	-0.5	1.6	0.31	23.90
390713	292	86.4	1.2	22.0	227	35.6	28.03

Activation Laboratories Ltd. Work Order A07-5792 Report A07-5792

Sample ID	Nd*	Sm*	Eu	Tb	Yb	Lu*	Mass
	ppm	ppm	ppm	ppm	ppm	ppm	g
390714	9	-0.1	-0.2	-0.5	5.0	0.84	22.84
390715	15	7.9	-0.2	3.7	19.9	3.23	24.07
390716	-5	-0.1	-0.2	1.6	9.8	-0.05	22.55
390717	114	45.4	-0.2	16.9	107	15.7	25.25
31423 (extra)	-5	-0.1	-0.2	2.0	2.2	-0.05	25.42
31423 (extra) Split Pulp Dup	-5	-0.1	0.7	2.1	2.3	-0.05	24.45
BLANK	-5	-0.1	-0.2	-0.5	-0.2	-0.05	30.00
DMMAS-104	20	4.0	1.5	-0.5	2.8	0.50	20.25
DMMAS-104	17	4.2	1.6	-0.5	3.1	0.45	20.55
DMMAS-104	18	4.0	1.1	-0.5	3.1	0.48	20.16
DMMAS-104	17	4.4	1.4	-0.5	3.3	0.51	20.02
DMMAS-104	17	4.0	1.2	-0.5	3.1	0.48	20.11
DMMAS104 Accepted	19	4.3	1.2		3.0	0.40	

Quality Analysis ...



Innovative Technologies

Date Submitted: 27-Nov-07
Invoice No.: A07-6134
Invoice Date: 24-Dec-07
Your Reference: 180399 GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

74 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT A07-6134

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "C. Douglas Read". The signature is written in a cursive, flowing style.

C. Douglas Read, B.Sc.
Laboratory Manager

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd.

Report: A07-6134

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD- ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD- ICP	MULT INAA / TD- ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
31424	< 2	0.6	8	0.3	< 1	22	10	51	0.01	5.06	3.1	950	< 1	< 2	< 0.5	0.43	3	< 2	< 1	0.8	3.19	7	< 1	< 5
31425	< 2	< 0.3	3	< 0.3	4	56	3	23	< 0.01	5.66	< 0.5	340	1	< 2	< 0.5	0.54	2	14	< 1	< 0.2	0.82	< 1	< 1	< 5
31426	< 2	< 0.3	< 1	< 0.3	6	48	2	74	< 0.01	3.83	< 0.5	510	1	< 2	< 0.5	0.46	4	14	3	< 0.2	1.84	5	< 1	< 5
31427	< 2	< 0.3	< 1	< 0.3	2	74	2	87	< 0.01	5.39	< 0.5	380	< 1	< 2	< 0.5	0.49	3	13	3	< 0.2	1.85	3	< 1	< 5
31428	< 2	0.3	< 1	< 0.3	6	100	3	45	< 0.01	5.72	2.5	660	1	< 2	< 0.5	0.49	3	< 2	2	< 0.2	1.20	6	< 1	< 5
31429	< 2	0.3	< 1	< 0.3	7	110	< 1	45	< 0.01	3.35	2.0	790	1	< 2	< 0.5	0.51	< 1	< 2	< 1	< 0.2	1.26	5	< 1	< 5
31430	< 2	0.6	< 1	< 0.3	3	94	1	50	< 0.01	4.50	< 0.5	1150	1	< 2	< 0.5	0.51	< 1	< 2	< 1	< 0.2	1.64	9	< 1	< 5
31431	< 2	< 0.3	< 1	< 0.3	3	85	4	44	< 0.01	4.78	2.9	430	< 1	< 2	< 0.5	0.37	< 1	14	< 1	< 0.2	1.51	2	< 1	< 5
31432	< 2	0.3	< 1	< 0.3	2	49	2	44	< 0.01	2.63	1.8	600	1	< 2	< 0.5	0.50	< 1	< 2	2	0.4	1.34	2	< 1	< 5
31433	< 2	0.3	< 1	< 0.3	5	89	3	58	< 0.01	5.92	< 0.5	< 50	1	< 2	< 0.5	0.65	< 1	< 2	< 1	< 0.2	1.83	5	< 1	< 5
31434	< 2	< 0.3	< 1	< 0.3	< 1	79	2	73	< 0.01	6.03	< 0.5	680	2	< 2	< 0.5	0.71	4	16	3	0.9	1.51	12	< 1	< 5
31435	< 2	0.6	< 1	< 0.3	< 1	45	2	56	< 0.01	2.97	< 0.5	830	2	< 2	< 0.5	0.50	< 1	13	2	0.7	1.91	9	< 1	< 5
31436	< 2	0.3	< 1	< 0.3	< 1	52	2	29	< 0.01	6.02	< 0.5	360	< 1	< 2	< 0.5	0.33	< 1	< 2	2	0.5	0.72	5	< 1	< 5
31437	< 2	0.5	< 1	< 0.3	< 1	57	2	30	< 0.01	5.68	1.9	530	2	< 2	< 0.5	0.50	< 1	8	4	< 0.2	0.79	8	< 1	< 5
31438	< 2	0.8	< 1	< 0.3	6	67	2	73	< 0.01	5.26	< 0.5	390	1	< 2	< 0.5	0.46	2	10	3	< 0.2	1.51	13	< 1	< 5
31439	< 2	0.3	< 1	< 0.3	2	69	3	68	< 0.01	4.67	2.5	530	1	< 2	< 0.5	0.40	3	11	2	< 0.2	1.61	2	< 1	< 5
31440	< 2	< 0.3	< 1	< 0.3	1	51	2	30	< 0.01	4.22	1.9	< 50	2	< 2	< 0.5	0.37	< 1	14	1	0.4	0.85	4	< 1	< 5
31441	8	< 0.3	< 1	< 0.3	< 1	36	2	22	< 0.01	3.35	< 0.5	< 50	1	< 2	< 0.5	0.55	< 1	10	1	0.3	0.63	2	< 1	< 5
31442	< 2	0.3	< 1	< 0.3	4	57	1	41	< 0.01	3.95	< 0.5	220	3	< 2	0.9	0.44	2	14	16	< 0.2	0.97	4	< 1	< 5
31443	< 2	< 0.3	< 1	0.5	1	161	2	192	< 0.01	6.75	< 0.5	< 50	7	< 2	< 0.5	1.14	< 1	12	13	2.1	5.01	21	< 1	< 5
31444	< 2	0.9	< 1	< 0.3	2	48	3	98	< 0.01	6.46	< 0.5	< 50	10	< 2	< 0.5	1.22	< 1	10	11	< 0.2	2.45	17	< 1	< 5
31445	< 2	< 0.3	< 1	< 0.3	4	156	3	57	< 0.01	6.38	2.9	700	2	< 2	< 0.5	0.75	< 1	9	< 1	< 0.2	1.46	2	< 1	< 5
31446	< 2	0.3	8	< 0.3	26	158	2	37	< 0.01	6.42	< 0.5	5430	2	< 2	< 0.5	0.73	< 1	20	1	< 0.2	1.20	1	< 1	< 5
31447	< 2	1.1	< 1	< 0.3	4	337	2	44	< 0.01	6.56	< 0.5	< 50	1	< 2	< 0.5	0.60	< 1	13	< 1	< 0.2	1.31	31	< 1	< 5
31448	< 2	< 0.3	< 1	< 0.3	< 1	48	2	27	< 0.01	5.94	< 0.5	240	2	< 2	< 0.5	1.06	4	11	2	< 0.2	0.56	< 1	< 1	< 5
31449	< 2	0.7	< 1	0.4	13	107	9	146	< 0.01	4.55	2.6	1360	2	< 2	< 0.5	1.05	4	20	2	< 0.2	3.21	11	< 1	< 5
31450	< 2	< 0.3	< 1	< 0.3	3	111	1	47	< 0.01	4.60	< 0.5	570	< 1	< 2	< 0.5	0.32	< 1	10	1	< 0.2	1.02	1	< 1	< 5
31451	< 2	< 0.3	< 1	< 0.3	< 1	45	3	35	< 0.01	4.96	< 0.5	270	1	< 2	< 0.5	0.61	< 1	7	1	0.3	0.93	3	< 1	< 5
31452	< 2	0.4	< 1	< 0.3	< 1	54	2	50	< 0.01	6.10	< 0.5	510	1	< 2	< 0.5	0.72	< 1	7	2	< 0.2	1.19	6	< 1	< 5
31453	< 2	0.4	< 1	< 0.3	< 1	49	2	53	< 0.01	5.04	2.3	570	1	< 2	< 0.5	0.68	2	9	1	0.5	1.41	5	< 1	< 5
31454	< 2	< 0.3	5	< 0.3	8	62	3	69	< 0.01	3.53	< 0.5	780	< 1	< 2	< 0.5	0.87	3	< 2	3	< 0.2	1.56	4	< 1	< 5
31455	< 2	3.0	< 1	0.3	29	372	4	131	0.01	7.73	< 0.5	1460	3	< 2	< 0.5	2.16	< 1	21	< 1	< 0.2	2.92	36	< 1	< 5
31456	< 2	2.9	8	0.3	34	411	4	140	0.01	8.61	< 0.5	< 50	3	< 2	< 0.5	2.24	10	< 2	< 1	< 0.2	3.03	35	< 1	< 5
31542	< 2	0.5	22	0.5	< 1	132	38	152	0.07	7.68	8.1	600	2	< 2	< 0.5	1.51	8	111	11	< 0.2	3.62	7	< 1	< 5
31543	< 2	< 0.3	1	< 0.3	3	128	6	50	< 0.01	7.53	2.4	810	2	< 2	< 0.5	0.72	< 1	14	4	1.0	0.95	4	< 1	< 5
31544	< 2	1.0	< 1	< 0.3	8	244	3	64	< 0.01	2.45	3.2	950	1	< 2	< 0.5	0.44	4	9	4	< 0.2	1.19	16	< 1	< 5
31545	< 2	0.6	< 1	< 0.3	3	145	4	53	< 0.01	5.96	3.3	680	2	< 2	< 0.5	0.57	< 1	10	6	< 0.2	1.10	9	< 1	< 5
31546	< 2	0.4	5	< 0.3	4	155	11	47	< 0.01	6.28	0.9	980	2	< 2	< 0.5	0.94	4	9	5	< 0.2	0.99	6	< 1	< 5
31547	< 2	0.5	5	< 0.3	2	99	2	51	< 0.01	5.91	2.3	660	1	< 2	< 0.5	0.61	2	13	3	< 0.2	1.02	7	< 1	< 5
31548	< 2	1.0	8	< 0.3	2	200	3	45	< 0.01	7.11	< 0.5	740	1	< 2	< 0.5	0.56	< 1	9	3	< 0.2	0.79	16	< 1	< 5
31549	< 2	< 0.3	6	< 0.3	1	57	4	42	< 0.01	6.32	1.8	490	1	< 2	< 0.5	0.45	< 1	11	4	0.5	0.74	4	< 1	< 5
31550	< 2	0.8	10	< 0.3	3	92	6	94	< 0.01	6.64	3.7	590	1	< 2	< 0.5	0.63	3	22	5	0.7	1.90	10	< 1	< 5
31551	< 2	< 0.3	5	< 0.3	15	96	2	60	< 0.01	5.63	< 0.5	670	1	< 2	< 0.5	0.55	2	7	2	< 0.2	1.51	3	< 1	< 5
31552	< 2	< 0.3	8	< 0.3	8	112	2	25	< 0.01	5.16	< 0.5	710	1	< 2	< 0.5	0.74	2	10	2	0.7	0.98	2	< 1	< 5
31553	< 2	1.1	5	< 0.3	6	93	4	58	< 0.01	7.02	0.7	580	2	< 2	< 0.5	0.87	3	28	3	< 0.2	1.40	8	< 1	< 5
31554	< 2	0.6	< 1	< 0.3	1	60	2	34	< 0.01	5.80	< 0.5	390	1	< 2	< 0.5	0.54	2	21	2	< 0.2	0.99	2	< 1	< 5
31555	< 2	0.3	5	< 0.3	10	115	2	47	< 0.01	6.13	< 0.5	940	1	< 2	< 0.5	0.51	< 1	22	3	< 0.2	1.33	4	< 1	< 5
31556	< 2	< 0.3	7	< 0.3	11	66	5	30	< 0.01	5.42	< 0.5	640	2	< 2	< 0.5	0.71	< 1	13	1	< 0.2	0.92	3	< 1	< 5
31557	< 2	< 0.3	10	< 0.3	22	152	5	56	< 0.01	5.82	< 0.5	1760	2	< 2	< 0.5	0.90	2	18	3	0.6	1.11	2	< 1	< 5
31558	< 2	< 0.3	3	< 0.3	10	113	3	35	< 0.01	6.22	< 0.5	970	1	< 2	1.0	0.58	< 1	< 2	2	0.6	0.91	1	< 1	< 5
31559	< 2	< 0.3	4	< 0.3	11	115	1	49	< 0.01	6.09	< 0.5	660	2	< 2	< 0.5	0.62	1	8	2	< 0.2	1.11	3	< 1	< 5

Activation Laboratories Ltd.

Report: A07-6134

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD- ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD- ICP	MULT INAA / TD- ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
31560	< 2	1.4	3	< 0.3	12	95	3	49	< 0.01	7.00	< 0.5	660	2	< 2	< 0.5	0.96	< 1	22	3	< 0.2	1.21	6	< 1	< 5
31561	< 2	< 0.3	4	< 0.3	43	366	3	120	< 0.01	5.49	< 0.5	2090	< 1	< 2	< 0.5	0.42	4	32	6	< 0.2	2.64	3	< 1	< 5
31562	< 2	0.4	2	< 0.3	4	63	2	42	< 0.01	5.81	< 0.5	740	2	< 2	< 0.5	0.77	2	11	3	0.9	1.12	?	< 1	< 5
31563	< 2	< 0.3	7	< 0.3	3	132	5	4220	< 0.01	6.45	< 0.5	880	2	< 2	< 0.5	0.81	< 1	< 2	1	< 0.2	1.10	3	< 1	< 5
31564	< 2	0.3	1	< 0.3	3	49	3	59	< 0.01	5.92	< 0.5	440	2	< 2	< 0.5	0.45	< 1	8	2	0.8	0.90	5	< 1	< 5
31565	< 2	0.5	2	< 0.3	1	45	2	54	< 0.01	1.57	< 0.5	940	2	< 2	< 0.5	0.47	3	12	< 1	0.8	1.48	10	< 1	< 5
31566	< 2	0.5	1	< 0.3	1	56	3	47	< 0.01	5.48	1.8	500	2	< 2	< 0.5	0.71	3	< 2	2	0.8	1.28	7	< 1	< 5
31567	< 2	< 0.3	4	< 0.3	16	136	11	56	< 0.01	4.09	< 0.5	1800	1	< 2	< 0.5	0.70	3	16	2	< 0.2	1.37	11	< 1	< 5
31568	7	0.5	< 1	< 0.3	3	52	3	54	< 0.01	6.05	< 0.5	580	2	< 2	< 0.5	0.80	< 1	13	3	< 0.2	1.31	10	< 1	< 5
31569	< 2	< 0.3	2	< 0.3	5	152	4	100	< 0.01	6.82	< 0.5	590	2	< 2	< 0.5	0.54	3	11	3	0.7	2.00	2	< 1	< 5
31570	< 2	0.4	4	< 0.3	2	92	14	42	< 0.01	6.60	< 0.5	440	2	< 2	< 0.5	0.52	< 1	8	2	< 0.2	0.95	3	< 1	< 5
31571	< 2	0.8	10	< 0.3	10	222	8	53	< 0.01	6.25	< 0.5	830	2	< 2	< 0.5	0.88	3	20	2	< 0.2	1.30	11	< 1	< 5
31572	< 2	0.9	3	< 0.3	9	72	4	54	< 0.01	5.86	< 0.5	680	2	< 2	< 0.5	0.80	< 1	15	< 1	< 0.2	1.35	13	< 1	< 5
31573	< 2	0.9	4	< 0.3	6	69	2	51	0.01	5.87	2.1	750	2	< 2	< 0.5	0.74	1	7	1	1.2	1.38	14	< 1	< 5
31574	14	0.3	7	< 0.3	7	60	3	47	< 0.01	2.28	< 0.5	810	2	< 2	< 0.5	0.42	2	15	2	< 0.2	1.26	7	< 1	< 5
31575	< 2	0.5	1	< 0.3	18	118	3	55	< 0.01	5.10	0.8	1020	1	< 2	< 0.5	0.55	2	10	2	0.7	1.42	8	< 1	< 5
31576	< 2	< 0.3	4	< 0.3	2	67	2	41	< 0.01	5.96	< 0.5	760	2	< 2	< 0.5	0.83	2	< 2	< 1	0.8	1.37	3	< 1	< 5
31577	< 2	0.5	2	< 0.3	3	53	3	55	0.01	6.88	< 0.5	560	2	< 2	< 0.5	0.76	3	< 2	2	0.5	1.40	5	< 1	< 5
31578	3	< 0.3	4	< 0.3	1	70	6	74	< 0.01	6.81	< 0.5	630	1	< 2	< 0.5	0.63	1	19	3	0.6	1.39	4	< 1	< 5
31579	< 2	< 0.3	< 1	< 0.3	< 1	95	3	46	< 0.01	6.75	1.3	670	< 1	< 2	< 0.5	0.35	2	12	3	0.7	0.94	8	< 1	< 5
31580	< 2	< 0.3	< 1	< 0.3	2	133	3	57	< 0.01	6.90	< 0.5	880	< 1	< 2	< 0.5	0.41	2	23	2	< 0.2	1.15	7	< 1	< 5
31581	< 2	< 0.3	< 1	< 0.3	< 1	66	3	40	< 0.01	6.75	2.9	670	!	< 2	< 0.5	0.35	2	7	4	0.6	0.77	2	< 1	< 5
31582	< 2	< 0.3	8	< 0.3	1	73	3	53	< 0.01	5.95	< 0.5	590	< 1	< 2	< 0.5	0.38	1	11	2	0.7	1.01	5	< 1	< 5

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Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
31424	4.86	0.08	201	1.97	0.007	135	< 0.1	1.2	< 3	111	< 0.5	0.13	21.9	6.3	35	< 1	14	45.2	84	34	5.3	< 0.01	< 0.5	2.4
31425	4.59	0.06	74	2.20	0.012	255	0.3	1.4	< 3	61	1.8	0.06	34.8	34.6	5	< 1	58	26.1	67	22	5.2	< 0.01	1.3	11.6
31426	3.87	0.14	206	2.10	0.013	220	< 0.1	5.1	< 3	28	< 0.5	0.19	60.6	63.4	12	< 1	34	48.0	113	41	8.5	< 0.01	2.2	13.5
31427	4.45	0.24	278	1.72	0.013	259	< 0.1	5.2	< 3	50	< 0.5	0.21	55.5	155	10	< 1	52	45.4	98	31	6.4	< 0.01	2.1	10.2
31428	4.87	0.08	152	1.92	0.043	245	< 0.1	2.2	< 3	46	< 0.5	0.13	171	140	9	< 1	124	134	312	104	24.4	< 0.01	5.2	27.7
31429	4.60	0.03	129	2.25	0.030	219	< 0.1	2.2	< 3	19	< 0.5	0.14	176	304	11	< 1	41	147	323	130	21.8	< 0.01	3.7	11.3
31430	4.39	0.05	140	1.95	0.047	211	< 0.1	2.2	< 3	30	< 0.5	0.14	152	154	11	< 1	106	111	266	100	22.5	< 0.01	6.4	46.7
31431	3.44	0.10	122	1.74	0.027	256	0.3	2.3	< 3	50	< 0.5	0.10	80.2	144	7	< 1	58	68.2	142	59	10.4	< 0.01	< 0.5	7.3
31432	3.59	0.02	128	2.25	0.022	203	< 0.1	2.4	< 3	18	< 0.5	0.13	93.1	49.4	8	< 1	36	77.6	182	56	14.3	< 0.01	2.9	14.3
31433	3.34	0.10	183	2.05	0.024	203	< 0.1	2.5	< 3	53	< 0.5	0.15	123	30.6	12	< 1	108	84.9	198	62	16.7	< 0.01	3.5	23.1
31434	1.44	0.24	244	2.22	0.025	277	< 0.1	5.3	< 3	73	< 0.5	0.19	150	41.6	8	< 1	77	131	307	122	22.9	< 0.01	2.8	11.5
31435	3.85	0.06	174	2.54	0.031	263	< 0.1	4.4	< 3	23	< 0.5	0.18	154	43.9	15	< 1	24	110	243	91	18.1	< 0.01	2.2	5.3
31436	4.82	0.06	78	2.08	0.026	349	< 0.1	2.3	< 3	43	< 0.5	0.08	54.8	8.6	3	< 1	47	35.9	87	24	7.6	< 0.01	1.7	12.4
31437	3.22	0.07	100	2.03	0.021	182	< 0.1	1.9	< 3	44	< 0.5	0.07	133	19.6	4	< 1	76	90.7	206	83	17.5	< 0.01	3.0	18.3
31438	3.99	0.17	224	2.04	0.031	327	< 0.1	5.0	< 3	39	< 0.5	0.21	154	124	9	< 1	49	115	246	86	18.0	< 0.01	2.7	7.9
31439	5.38	0.15	205	1.98	0.038	286	< 0.1	4.7	< 3	32	2.7	0.20	123	24.6	9	< 1	52	81.7	197	71	15.4	< 0.01	2.9	18.4
31440	4.25	0.07	101	1.88	0.020	216	< 0.1	2.1	< 3	41	< 0.5	0.09	80.9	18.3	5	< 1	70	53.2	131	48	11.0	< 0.01	2.7	20.8
31441	2.31	0.06	83	1.55	0.007	102	< 0.1	1.4	< 3	35	< 0.5	0.06	24.6	5.6	3	< 1	22	16.2	36	14	2.9	< 0.01	0.6	3.7
31442	3.62	0.05	142	2.07	0.015	325	< 0.1	2.4	< 3	24	2.6	0.09	78.1	10.8	4	< 1	29	54.5	125	37	10.2	< 0.01	2.0	10.3
31443	1.79	0.30	622	3.10	0.048	257	< 0.1	8.0	< 3	47	9.2	0.21	898	165	31	21	578	647	1480	520	121	0.18	25.3	171
31444	1.65	0.25	364	3.68	0.021	239	< 0.1	8.4	< 3	47	4.7	0.16	168	57.4	11	< 1	100	122	273	102	21.7	< 0.01	4.5	20.5
31445	3.69	0.15	159	2.15	0.035	212	< 0.1	3.0	< 3	57	< 0.5	0.13	347	737	12	< 1	124	246	510	203	29.7	< 0.01	4.7	8.7
31446	4.50	0.07	105	2.46	0.025	279	< 0.1	1.8	< 3	65	< 0.5	0.11	204	854	13	< 1	104	176	347	152	17.9	< 0.01	3.8	8.2
31447	4.59	0.14	249	2.41	0.018	303	< 0.1	3.2	< 3	59	< 0.5	0.11	323	312	7	< 1	158	178	397	134	29.7	< 0.01	5.7	25.9
31448	1.90	0.07	128	2.77	0.009	127	< 0.1	0.9	< 3	165	< 0.5	0.03	25.9	69.6	3	< 1	6	23.5	43	15	1.7	< 0.01	< 0.5	0.3
31449	1.93	0.32	415	2.27	0.046	188	< 0.1	8.5	< 3	35	< 0.5	0.40	265	206	31	< 1	199	184	428	154	36.4	< 0.01	9.6	80.4
31450	5.39	0.13	119	1.79	0.016	269	< 0.1	3.3	< 3	58	< 0.5	0.12	85.3	33.8	7	< 1	46	65.6	148	51	11.7	< 0.01	2.5	7.8
31451	2.65	0.07	87	2.57	0.015	208	< 0.1	2.4	< 3	47	< 0.5	0.08	28.8	15.0	6	< 1	17	24.9	52	17	3.8	< 0.01	< 0.5	3.0
31452	4.72	0.19	139	2.12	0.020	238	< 0.1	4.1	< 3	71	2.0	0.11	55.2	21.3	5	< 1	45	46.1	106	38	7.3	< 0.01	< 0.5	5.2
31453	1.81	0.19	187	2.34	0.023	270	0.3	4.5	< 3	71	< 0.5	0.16	65.7	12.8	6	< 1	46	55.2	122	44	9.1	< 0.01	1.8	7.1
31454	2.46	0.25	240	1.04	0.190	180	< 0.1	5.5	< 3	34	< 0.5	0.16	223	75.3	8	< 1	576	147	379	137	40.0	0.14	14.6	108
31455	1.28	0.27	335	3.72	0.074	85	< 0.1	6.1	< 3	85	< 0.5	0.32	519	698	27	< 1	772	345	768	271	60.0	< 0.01	18.8	158
31456	1.25	0.28	339	3.47	0.074	< 15	< 0.1	7.2	< 3	85	< 0.5	0.33	419	804	29	< 1	789	370	880	282	56.3	< 0.01	24.6	178
31542	2.94	1.01	416	2.64	0.028	322	< 0.1	8.5	< 3	112	< 0.5	0.19	141	145	44	< 1	65	136	271	106	18.1	< 0.01	2.5	4.0
31543	4.03	0.17	143	2.39	0.026	268	< 0.1	2.6	< 3	91	< 0.5	0.11	161	81.5	6	< 1	66	136	278	107	19.9	< 0.01	2.5	4.9
31544	1.48	0.06	159	2.26	0.029	299	< 0.1	3.3	< 3	22	3.7	0.14	290	354	7	< 1	39	233	474	149	31.0	< 0.01	4.6	8.6
31545	3.98	0.14	155	2.08	0.023	274	0.3	2.9	< 3	74	< 0.5	0.11	157	170	6	< 1	76	131	288	99	18.3	< 0.01	3.3	7.2
31546	4.30	0.13	143	2.43	0.028	252	0.2	2.3	< 3	68	< 0.5	0.10	198	140	5	< 1	121	162	340	127	24.9	< 0.01	4.2	16.2
31547	3.42	0.16	139	2.25	0.021	332	< 0.1	2.4	< 3	90	< 0.5	0.11	108	63.7	5	3	45	102	210	70	14.7	< 0.01	1.9	2.7
31548	3.32	0.15	128	1.95	0.013	263	< 0.1	2.0	< 3	102	< 0.5	0.09	87.0	264	4	< 1	64	63.9	127	42	6.9	< 0.01	1.4	6.3
31549	3.25	0.14	120	1.85	0.018	280	< 0.1	2.0	< 3	80	< 0.5	0.09	64.1	9.6	4	< 1	25	60.9	128	46	8.9	< 0.01	1.0	1.5
31550	3.06	0.34	255	2.15	0.023	299	0.4	4.7	< 3	78	< 0.5	0.23	111	39.6	13	< 1	43	103	206	80	15.3	< 0.01	1.6	2.3
31551	3.21	0.22	211	1.94	0.020	248	< 0.1	4.2	< 3	80	< 0.5	0.18	80.9	68.6	10	< 1	142	55.8	132	45	10.2	< 0.01	2.8	26.0
31552	3.49	0.05	113	2.42	0.013	216	< 0.1	1.5	< 3	50	< 0.5	0.10	91.5	101	9	< 1	124	56.5	139	37	11.0	< 0.01	3.3	32.8
31553	2.71	0.20	187	2.33	0.026	262	< 0.1	4.5	< 3	85	3.4	0.17	105	1200	9	12	110	130	216	98	< 0.1	< 0.01	3.5	18.1
31554	1.81	0.13	139	2.01	0.011	282	< 0.1	2.8	< 3	84	2.9	0.11	37.5	871	5	8	38	61.4	94	< 5	< 0.1	< 0.01	< 0.5	5.4
31555	3.57	0.12	165	2.38	0.020	332	< 0.1	4.1	< 3	68	3.2	0.15	126	835	7	15	104	120	224	77	< 0.1	< 0.01	3.7	21.6
31556	1.96	0.08	123	2.23	0.013	182	< 0.1	2.1	< 3	64	< 0.5	0.09	63.8	194	8	< 1	92	49.2	108	41	6.8	< 0.01	2.3	19.5
31557	3.21	0.18	190	2.20	0.112	271	< 0.1	4.0	< 3	67	2.4	0.19	145	315	9	< 1	323	93.3	231	65	19.7	< 0.01	8.7	82.2
31558	3.87	0.12	118	1.91	0.104	316	< 0.1	2.9	< 3	81	2.0	0.11	105	112	8	< 1	204	68.5	172	61	15.2	< 0.01	5.2	47.6
31559	3.95	0.16	146	2.05	0.056	297	< 0.1	3.4	< 3	88	< 0.5	0.13	69.2	110	9	< 1	120	48.2	116	35	9.0	< 0.01	3.3	31.8
31560	2.58	0.17	162	2.39	0.024	287	< 0.1	3.8	< 3	84	< 0.5</													

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Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
31561	4.80	0.40	346	1.08	0.115	372	< 0.1	9.2	< 3	59	3.8	0.32	278	754	17	< 1	513	162	378	123	29.6	< 0.01	15.4	143
31562	4.02	0.16	147	2.50	0.023	235	< 0.1	3.8	< 3	63	< 0.5	0.13	68.6	63.8	11	3	61	56.8	125	43	8.5	< 0.01	1.8	17.0
31563	3.77	0.09	109	2.42	0.023	204	< 0.1	1.9	< 3	62	< 0.5	0.11	102	212	15	< 1	198	70.0	172	55	12.2	< 0.01	4.8	60.2
31564	5.33	0.08	101	2.15	0.021	293	< 0.1	2.5	< 3	57	< 0.5	0.10	9.0	54.3	7	< 1	54	44.6	98	33	7.1	< 0.01	1.5	13.2
31565	2.27	0.03	171	2.35	0.025	262	< 0.1	3.9	< 3	16	< 0.5	0.15	88.4	146	14	< 1	14	77.7	169	56	11.6	< 0.01	3.1	28.3
31566	2.89	0.13	165	2.28	0.031	223	< 0.1	3.5	< 3	58	< 0.5	0.15	100	65.4	10	< 1	89	83.3	191	67	14.5	< 0.01	3.4	31.9
31567	3.44	0.12	193	2.11	0.074	323	< 0.1	4.4	< 3	87	< 0.5	0.17	220	371	10	< 1	214	157	377	112	29.0	< 0.01	11.6	122
31568	2.31	0.21	206	2.39	0.030	263	< 0.1	4.1	< 3	90	< 0.5	0.18	69.7	65.1	11	< 1	42	70.0	145	51	9.7	< 0.01	1.4	7.2
31569	4.99	0.35	291	1.99	0.025	331	0.4	6.2	< 3	94	< 0.5	0.14	128	385	11	< 1	120	119	237	82	13.8	< 0.01	3.0	14.2
31570	4.55	0.16	139	1.89	0.017	219	< 0.1	2.7	< 3	85	1.1	0.12	58.0	67.4	8	< 1	74	58.2	111	33	< 0.1	< 0.01	1.7	10.9
31571	4.61	0.16	174	2.16	0.033	172	0.2	2.7	< 3	85	< 0.5	0.17	140	790	17	< 1	258	104	204	67	< 0.1	< 0.01	5.5	45.7
31572	4.74	0.19	191	2.32	0.041	226	< 0.1	4.0	< 3	72	< 0.5	0.19	92.2	223	11	< 1	102	77.8	164	63	11.1	0.07	3.2	26.9
31573	4.50	0.18	191	2.34	0.035	261	< 0.1	4.0	< 3	67	< 0.5	0.17	84.0	81.6	11	< 1	80	70.2	152	60	11.3	< 0.01	2.9	22.1
31574	1.52	0.07	151	2.29	0.021	207	< 0.1	3.5	< 3	28	< 0.5	0.14	86.3	94.1	9	< 1	25	72.5	166	58	11.2	< 0.01	2.8	27.6
31575	1.91	0.15	155	1.99	0.032	256	< 0.1	3.4	< 3	63	< 0.5	0.16	145	140	13	< 1	163	118	269	90	20.1	< 0.01	5.8	54.9
31576	2.82	0.11	146	2.31	0.020	200	< 0.1	2.3	< 3	70	< 0.5	0.14	71.6	53.8	16	< 1	127	55.9	132	43	10.6	< 0.01	3.6	37.3
31577	2.64	0.24	195	2.22	0.024	256	< 0.1	4.2	< 3	89	< 0.5	0.17	64.7	16.5	11	< 1	71	61.8	142	48	10.1	< 0.01	1.7	13.9
31578	3.53	0.31	182	1.93	0.017	266	< 0.1	3.6	< 3	88	< 0.5	0.17	68.2	24.8	15	< 1	32	69.2	144	51	10.1	< 0.01	< 0.5	2.4
31579	3.46	0.16	117	1.86	0.010	291	< 0.1	2.5	< 3	88	< 0.5	0.10	66.6	42.1	5	< 1	28	67.2	133	54	9.4	< 0.01	1.0	2.1
31580	3.82	0.20	136	1.99	0.018	335	< 0.1	3.1	< 3	92	1.9	0.12	159	44.7	6	< 1	61	166	325	118	18.3	< 0.01	2.6	4.0
31581	3.61	0.12	108	1.90	0.015	304	< 0.1	1.9	< 3	82	< 0.5	0.07	47.3	43.2	4	< 1	26	48.6	94	34	6.5	< 0.01	< 0.5	2.0
31582	4.69	0.17	116	1.88	0.019	316	< 0.1	2.6	< 3	81	< 0.5	0.11	80.4	20.9	5	< 1	31	78.6	171	65	11.8	< 0.01	1.0	2.3

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
31424	0.40	23.3	5.3	1.044
31425	1.83	25.8	33.1	1.073
31426	2.25	25.2	58.6	1.066
31427	1.79	24.6	153	1.064
31428	4.96	26.2	141	1.049
31429	2.09	25.0	295	1.064
31430	7.04	25.3	156	1.044
31431	1.35	24.4	145	1.059
31432	2.18	25.2	44.6	1.035
31433	3.75	27.4	29.1	1.054
31434	1.89	25.2	42.3	1.052
31435	1.03	25.8	42.3	1.084
31436	2.05	24.4	7.5	1.055
31437	3.05	27.1	20.2	1.048
31438	1.46	27.0	129	1.082
31439	2.83	26.4	23.7	1.068
31440	3.34	23.3	17.5	1.076
31441	0.66	30.4	5.6	1.075
31442	1.85	27.4	11.4	1.001
31443	27.1	26.0	170	1.015
31444	3.37	26.2	58.6	1.083
31445	< 0.05	25.4	731	1.032
31446	< 0.05	24.6	797	1.064
31447	4.85	23.5	291	1.039
31448	< 0.05	29.6	72.5	1.035
31449	12.3	27.3	203	1.059
31450	1.14	24.1	30.1	1.046
31451	0.50	24.6	13.7	1.060
31452	0.85	25.5	19.6	1.078
31453	1.16	24.1	13.4	1.061
31454	16.3	26.5	70.9	1.058
31455	25.5	27.9	694	1.084
31456	31.5	28.1	889	1.055
31542	0.55	26.4	144	1.073
31543	0.72	26.6	78.3	1.049
31544	1.34	25.8	350	1.010
31545	1.32	24.0	167	1.052
31546	2.87	25.3	143	1.010
31547	0.51	25.1	62.6	1.046
31548	1.12	26.6	267	1.054
31549	0.21	25.8	9.2	1.079
31550	0.47	28.4	38.4	1.067
31551	4.00	28.6	85.2	1.077
31552	5.32	26.8	101	1.005
31553	3.84	31.0	1190	1.084
31554	< 0.05	26.0	887	1.029
31555	4.29	25.7	788	1.056
31556	3.17	25.8	190	1.086
31557	12.5	28.2	310	1.050
31558	7.24	24.2	103	1.070
31559	4.85	31.5	111	1.028
31560	5.59	25.9	1700	1.012

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
31561	23.0	29.4	712	1.034
31562	2.64	30.6	62.2	1.066
31563	9.31	27.5	203	1.011
31564	1.97	25.4	49.4	1.067
31565	4.58	26.8	144	1.056
31566	5.05	26.2	62.3	1.077
31567	19.0	25.0	358	1.051
31568	1.30	27.0	61.3	1.024
31569	2.63	27.0	369	1.017
31570	1.75	27.1	443	1.071
31571	7.46	27.7	800	1.062
31572	4.31	25.9	213	1.085
31573	3.56	27.5	78.2	1.014
31574	4.03	27.3	90.7	1.044
31575	8.33	31.0	141	1.034
31576	5.71	28.5	54.0	1.009
31577	2.19	27.0	16.3	1.072
31578	0.39	26.1	23.2	1.059
31579	0.45	27.8	41.9	1.036
31580	< 0.05	26.1	429	1.069
31581	0.34	28.0	44.9	1.083
31582	0.33	24.9	21.7	1.035

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Quality Control

Analyte Symbol	Au	Ag	Ni	Zn	As	Ba	Br	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir	Na	Rb	Sb	Sc	Se	Ta	Th	U	W
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	5	20	50	0.5	50	0.5	1	2	1	0.2	0.01	1	1	5	0.01	15	0.1	0.1	3	0.5	0.2	0.5	1
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA

GXR-1 Meas																								
GXR-1 Cert																								
GXR-1 Meas																								
GXR-1 Cert																								
DH-1a Meas																								
DH-1a Cert																								
DH-1a Meas																								
DH-1a Cert																								
DNC-1 Meas																								
DNC-1 Cert																								
DNC-1 Meas																								
DNC-1 Cert																								
GXR-4 Meas																								
GXR-4 Cert																								
GXR-2 Meas																								
GXR-2 Cert																								
GXR-2 Meas																								
GXR-2 Cert																								
SDC-1 Meas																								
SDC-1 Cert																								
SDC-1 Meas																								
SDC-1 Cert																								
SCO-1 Meas																								
SCO-1 Cert																								
SCO-1 Meas																								
SCO-1 Cert																								
GXR-6 Meas																								
GXR-6 Cert																								
GXR-6 Meas																								
GXR-6 Cert																								
SY-2 Meas																								
SY-2 Cert																								
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas																								
OREAS 13P Cert																								
OREAS 13P Meas																								
OREAS 13P Cert																								
BL-4a Meas																								
BL-4a Cert																								
DMMAS-104 Meas	226			100	1580	820		45	95		16	5.60			3.52		1.9	14.3			8.3	71.5	6	
DMMAS-104 Cert	229			96.2	1570	850		48.8	95.1		1.2	5.61			3.43		6.2	14.1			8.3	71.9	6	
DMMAS-104 Meas	251			110	1610	860		44	98		1.5	5.57			3.49		1.9	14.2			8.2	70.9	6	
DMMAS-104 Cert	229			96.2	1570	850		48.8	95.1		1.2	5.61			3.43		6.2	14.1			8.3	71.9	6	
DMMAS-104 Meas	222			150	1600	870		45	94		1.2	5.66			3.47		1.9	14.0			8.2	70.9	9	
DMMAS-104 Cert	229			96.2	1570	850		48.8	95.1		1.2	5.61			3.43		6.2	14.1			8.3	71.9	6	
DMMAS-104 Meas	222			140	1570	840		44	95		1.2	5.64			3.43		2.2	14.0			8.2	71.7	7	
DMMAS-104 Cert	229			98.2	1570	850		48.8	95.1		1.2	5.61			3.43		6.2	14.1			8.3	71.9	6	
31434 Dup																								
31434 Dup																								
31448 Dup																								
31448 Dup																								
31453 Split	< 2	< 5	< 20	< 50	1.4	630	< 0.5	2	10	< 1	0.5	1.45	6	< 1	< 5	2.39	269	< 0.1	4.8	< 3	< 0.5	57.8	13.5	< 1
31453 Orig																								
31453 Dup																								
31453 Split																								
31554 Ong																								

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Quality Control																								
Analyte Symbol	Au	Ag	Ni	Zn	As	Ba	Br	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir	Na	Rb	Sb	Sc	Se	Ta	Th	U	W
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	5	20	50	0.5	50	0.5	1	2	1	0.2	0.01	1	1	5	0.01	15	0.1	0.1	3	0.5	0.2	0.5	1
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
31554 Dup																								
31554 Orig																								
31554 Dup																								
31558 Split	< 2	< 5	< 20	< 50	< 0.5	860	< 0.5	2	< 2	3	< 0.2	1.00	< 1	< 1	< 5	189	318	0.2	3.1	< 3	< 0.5	103	104	< 1
31568 Split	12	< 5	< 20	< 50	< 0.5	550	< 0.5	< 1	< 2	3	< 0.2	1.40	10	< 1	< 5	2.45	242	< 0.1	4.2	< 3	< 0.5	65.7	61.6	< 1
31568 Dup																								
31568 Split																								
31568 Dup																								
31582 Split	< 2	< 5	< 20	< 50	1.0	610	< 0.5	< 1	11	3	0.7	1.02	6	< 1	< 5	1.83	315	< 0.1	2.7	< 3	< 0.5	82.1	22.7	< 1
Method Blank Method Blank																								
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Quality Control

Analyte Symbol	La	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass	U	Mass	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Bi	Ca	K
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	g	ppm	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%
Detection Limit	0.5	3	5	0.1	0.01	0.5	0.2	0.05		0.1		0.3	1	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	DNC	DNC	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas												29.5	1260	4.1	14	702	44	73	0.25	2.02	1	1380	0.91	0.05
GXR-1 Cert												31.0	1110	3.30	18.0	730	41.0	760	0.257	3.52	1.22	1380	0.960	0.0500
GXR-1 Meas												30.8	1160	3.3	14	734	39	742	0.23	1.62	1	1380	0.88	0.05
GXR-1 Cert												31.0	1110	3.30	18.0	730	41.0	760	0.257	3.52	1.22	1380	0.960	0.0500
DH-1a Meas										2650														
DH-1a Cert										2630														
DH-1a Meas										2560														
DH-1a Cert										2630														
DNC-1 Meas												< 0.3	107		< 1	6	242	56	0.06	8.51	< 1	< 2	8.04	0.20
DNC-1 Cert												0.0270	96.0		0.700	6.30	247	66.0	0.0390	9.89	1.00	0.0200	8.06	0.190
DNC-1 Meas												< 0.3	105		< 1	5	251	60	0.06	7.91	< 1	< 2	8.07	0.23
DNC-1 Cert												0.0270	96.0		0.700	6.30	247	66.0	0.0390	9.69	1.00	0.0200	8.06	0.190
GXR-4 Meas												3.5	6470	0.7	316	47	41	74	1.82	5.21	2	19	1.11	4.67
GXR-4 Cert												4.00	8520	0.860	310	52.0	42.0	73.0	1.77	7.20	1.90	19.0	1.01	4.01
GXR-2 Meas												18.9	92	2.7	< 1	721	22	552	0.02	10.3	2	< 2	0.92	1.52
GXR-2 Cert												17.0	76.0	4.10	2.10	690	21.0	530	0.0313	16.5	1.70	0.690	0.930	1.37
GXR-2 Meas												17.7	77	3.5	< 1	700	19	540	< 0.01	7.99	2	< 2	0.78	0.78
GXR-2 Cert												17.0	76.0	4.10	2.10	690	21.0	530	0.0313	16.5	1.70	0.690	0.930	1.37
SDC-1 Meas												< 0.3	34	0.5	< 1	22	35	96	0.07	8.10	3	< 2	1.16	2.24
SDC-1 Cert												0.0410	30.0	0.0800	0.250	25.0	38.0	103	0.0650	8.34	3.00	2.60	1.00	2.72
SDC-1 Meas												< 0.3	28	0.3	< 1	18	35	103	0.07	6.76	3	< 2	1.12	2.03
SDC-1 Cert												0.0410	30.0	0.0800	0.250	25.0	38.0	103	0.0650	8.34	3.00	2.60	1.00	2.72
SCO-1 Meas												< 0.3	30	0.4	< 1	24	28	92		6.81	2	< 2	2.01	2.10
SCO-1 Cert												0.134	28.7	0.140	1.37	31.0	27.0	103		7.24	1.84	0.370	1.87	2.30
SCO-1 Meas												< 0.3	23	0.3	< 1	24	26	93		7.11	2	< 2	1.98	1.33
SCO-1 Cert												0.134	28.7	0.140	1.37	31.0	27.0	103		7.24	1.84	0.370	1.87	2.30
GXR-6 Meas												0.4	73	1.3	1	98	29	132	0.01	10.4	1	< 2	0.18	1.91
GXR-6 Cert												1.30	66.0	1.00	2.40	101	27.0	118	0.0160	17.7	1.40	0.290	0.180	1.87
GXR-6 Meas												0.7	61	1.5	2	87	26	126	0.01	9.12	1	< 2	0.16	1.05
GXR-6 Cert												1.30	66.0	1.00	2.40	101	27.0	118	0.0160	17.7	1.40	0.290	0.180	1.87
SY-2 Meas												282												
SY-2 Cert												284												
SY-2 Meas												286												
SY-2 Cert												284												
OREAS 13P Meas													2650						2130					
OREAS 13P Cert													2500						2260					
OREAS 13P Meas													2560						1960					
OREAS 13P Cert													2500						2260					
BL-4a Meas												1280												
BL-4a Cert												1250												
DMMAS-104 Meas	38.5	62	20	4.7			3.4	0.46																
DMMAS-104 Cert	36.6	62.9	18.8	4.3			3.0	0.4																
DMMAS-104 Meas	38.1	61	18	4.8			3.7	0.48																
DMMAS-104 Cert	36.6	62.9	18.8	4.3			3.0	0.4																
DMMAS-104 Meas	38.0	64	20	4.6			3.5	0.47																
DMMAS-104 Cert	36.6	62.9	18.8	4.3			3.0	0.4																
DMMAS-104 Meas	36.8	60	19	4.6			3.7	0.54																
DMMAS-104 Cert	36.6	62.9	18.8	4.3			3.0	0.4																
31434 Dup																								
31434 Dup												< 0.3	< 1	< 0.3	2	79	3	73	< 0.01	6.13	2	< 2	0.72	1.61
31448 Dup												< 0.3	< 1	< 0.3	< 1	49	2	28	< 0.01	6.21	2	< 2	1.07	1.79
31453 Split	58.0	129	48	9.2	< 0.01	1.4	7.5	1.20	25.6	14.0	1.055	< 0.3	1	< 0.3	< 1	50	3	56	< 0.01	5.89	1	< 2	0.79	1.52
31453 Orig												0.4	< 1	< 0.3	< 1	48	1	53	< 0.01	4.28	1	< 2	0.60	1.71
31453 Dup												0.4	< 1	< 0.3	1	49	3	54	< 0.01	5.79	1	< 2	0.75	1.92
31453 Split												< 0.3	1	< 0.3	< 1	50	3	56	< 0.01	5.89	1	< 2	0.79	1.52
31554 Orig												0.8	6	< 0.3	1	54	3	36	< 0.01	6.11	1	< 2	0.53	4.88

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Quality Control																								
Analyte Symbol	La	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass	U	Mass	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be	Bi	Ca	K
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	g	ppm	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%
Detection Limit	0.5	3	5	0.1	0.01	0.5	0.2	0.05		0.1		0.3	1	0.3	1	3	1	1	0.01	0.01	1	2	0.01	0.01
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	DNC	DNC	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
31554 Dup												0.7	3	< 0.3	1	51	4	30	< 0.01	3.86	< 1	< 2	0.43	1.60
31554 Orig												0.7	< 1	< 0.3	1	60	2	35	< 0.01	5.95	1	< 2	0.55	2.09
31554 Dup												0.5	< 1	< 0.3	1	60	2	34	< 0.01	5.64	1	< 2	0.54	1.53
31558 Split	64.9	166	58	14.1	< 0.01	4.5	43.7	6.37	23.7	93.4	1.024	< 0.3	< 1	< 0.3	11	107	2	39	< 0.01	6.15	1	< 2	0.58	3.88
31568 Split	69.8	145	52	9.5	< 0.01	1.9	7.4	1.40	25.4	62.1	1.053	0.7	1	< 0.3	2	50	2	51	< 0.01	4.59	2	< 2	0.65	1.95
31568 Dup																								
31568 Split												0.7	1	< 0.3	2	50	2	51	< 0.01	4.59	2	< 2	0.65	1.95
31568 Dup												0.6	< 1	< 0.3	4	52	3	56	< 0.01	6.04	2	< 2	0.82	3.11
31582 Split	79.3	174	67	12.2	< 0.01	< 0.5	2.8	0.45	27.4	21.3	1.046	< 0.3	< 1	< 0.3	1	69	3	52	< 0.01	6.03	< 1	< 2	0.37	3.64
Method Blank Method Blank										< 0.1	1.000													
Method Blank Method Blank												< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01
Method Blank Method Blank												< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01
Method Blank Method Blank												< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01
Method Blank Method Blank												< 0.3	< 1	< 0.3	< 1	< 3	< 1	;	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01
Method Blank Method Blank												< 0.3	< 1	< 0.3	< 1	< 3	1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01
Method Blank Method Blank												< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	0.01	< 1	< 2	< 0.01	< 0.01
Method Blank Method Blank												< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1	< 2	< 0.01	< 0.01

Quality Control							
Analyte Symbol	Mg	Mn	P	Sr	Ti	V	Y
Unit Symbol	%	ppm	%	ppm	%	ppm	ppm
Detection Limit	0.01	1	0.001	1	0.01	2	1
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.21	013	0.057	303		97	39
GXR-1 Cert	0.217	852	0.0650	275		80.0	32.0
GXR-1 Meas	0.19	907	0.052	287		86	31
GXR-1 Cert	0.217	852	0.0650	275		80.0	32.0
DH-1a Meas							
DH-1a Cert							
DH-1a Meas							
DH-1a Cert							
DNC-1 Meas	6.01	1040	0.025	133	0.28	155	20
DNC-1 Cert	6.06	1150	0.0370	145	0.287	148	18.0
DNC-1 Meas	6.02	1170	0.025	143	0.30	151	19
DNC-1 Cert	6.06	1150	0.0370	145	0.287	148	18.0
GXR-4 Meas	1.67	158	0.125	229		92	16
GXR-4 Cert	1.66	155	0.120	221		87.0	14.0
GXR-2 Meas	0.90	968	0.061	164		61	20
GXR-2 Cert	0.850	1010	0.105	160		52.0	17.0
GXR-2 Meas	0.75	923	0.056	139		54	16
GXR-2 Cert	0.850	1010	0.105	160		52.0	17.0
SDC-1 Meas	1.02	851	0.050	178	0.18	49	45
SDC-1 Cert	1.02	883	0.0690	183	0.606	102	40.0
SDC-1 Meas	1.00	923	0.051	185	0.17	43	39
SDC-1 Cert	1.02	883	0.0690	183	0.606	102	40.0
SCO-1 Meas	1.57	366	0.070	158	0.21	115	26
SCO-1 Cert	1.64	410	0.0900	174	0.380	131	26.0
SCO-1 Meas	1.63	387	0.080	163	0.35	123	29
SCO-1 Cert	1.64	410	0.0900	174	0.380	131	26.0
GXR-6 Meas	0.56	1130	0.033	38		151	16
GXR-6 Cert	0.609	1010	0.0350	35.0		186	14.0
GXR-6 Meas	0.53	1090	0.033	34		191	14
GXR-6 Cert	0.609	1010	0.0350	35.0		186	14.0
SY-2 Meas							
SY-2 Cert							
SY-2 Meas							
SY-2 Cert							
OREAS 13P Meas							
OREAS 13P Cert							
OREAS 13P Meas							
OREAS 13P Cert							
BL-4a Meas							
BL-4a Cert							
DMMAS-104 Meas							
DMMAS-104 Cert							
DMMAS-104 Meas							
DMMAS-104 Cert							
DMMAS-104 Meas							
DMMAS-104 Cert							
DMMAS-104 Meas							
DMMAS-104 Cert							
31434 Dup							
31434 Dup	0.24	235	0.025	74	0.19	8	78
31448 Dup							
31448 Dup	0.08	133	0.009	170	0.03	4	6
31453 Split	0.21	178	0.020	82	0.17	7	55
31453 Orig	0.17	164	0.022	64	0.16	6	40
31453 Dup	0.20	170	0.024	78	0.16	6	52
31453 Split	0.21	178	0.020	82	0.17	7	55
31554 Orig	0.13	128	0.011	73	0.10	5	40

Quality Control

Analyte Symbol	Mg	Mn	P	Sr	Ti	V	Y
Unit Symbol	%	ppm	%	ppm	%	ppm	ppm
Detection Limit	0.01	1	0.001	1	0.01	2	1
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
31554 Dup	0.09	122	0.009	58	0.10	5	28
31554 Org	0.13	142	0.011	86	0.11	5	38
31554 Dup	0.13	136	0.011	83	0.11	4	38
31558 Split	0.13	130	0.095	79	0.13	8	188
31568 Split	0.17	194	0.030	73	0.16	11	32
31568 Dup							
31568 Split	0.17	194	0.030	73	0.16	11	32
31568 Dup	0.21	210	0.033	90	0.18	12	43
31582 Split	0.17	116	0.018	76	0.11	6	30
Method Blank Method Blank							
Method Blank Method Blank	< 0.01	1	< 0.001	< 1	< 0.01	< 2	< 1
Method Blank Method Blank	< 0.01	2	< 0.001	< 1	< 0.01	< 2	< 1
Method Blank Method Blank	< 0.01	11	< 0.001	< 1	< 0.01	< 2	< 1
Method Blank Method Blank	< 0.01	3	< 0.001	< 1	< 0.01	< 2	< 1
Method Blank Method Blank	< 0.01	1	< 0.001	< 1	< 0.01	< 2	< 1
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Method Blank Method Blank	< 0.01	7	< 0.001	< 1	< 0.01	< 2	< 1

Quality Analysis ...



Innovative Technologies

Date Submitted: 10-Dec-07
Invoice No.: A07-6420
Invoice Date: 04-Jan-08
Your Reference: 180399 U GENERAL

Freewest Resources Canada Inc
851 Field Street
Thunder Bay Ont P7B 6B6
Canada

ATTN: Don Hoy

CERTIFICATE OF ANALYSIS

12 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 5D-U-Total DNC

REPORT **A07-6420**

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Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "C. Douglas Read".

C. Douglas Read, B.Sc.
Laboratory Manager

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1 905 648 9611 or
+1 888 228 5227 FAX +1 905 648 9613
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Activation Laboratories Ltd. Report: A07-6420

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD- ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD- ICP	MULT INAA / TD- ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
31583	< 2	0.7	1	< 0.3	< 1	59	2	32	< 0.01	4.75	< 0.5	380	2	< 2	< 0.5	0.74	4	< 2	< 1	1.1	1.40	11	< 1	< 5
31584	< 2	< 0.3	< 1	< 0.3	< 1	53	2	18	< 0.01	6.28	2.8	340	1	< 2	< 0.5	0.43	2	11	< 1	< 0.2	1.15	2	< 1	< 5
31585	< 2	< 0.3	< 1	< 0.3	< 1	55	3	35	< 0.01	6.16	< 0.5	< 50	2	< 2	< 0.5	0.80	1	16	< 1	< 0.2	1.73	3	< 1	< 5
31586	< 2	1.0	1	< 0.3	< 1	59	4	56	< 0.01	6.79	< 0.5	< 50	2	< 2	< 0.5	0.92	2	< 2	2	< 0.2	1.55	8	< 1	< 5
31587	< 2	0.9	2	< 0.3	< 1	62	1	36	< 0.01	7.16	< 0.5	890	2	< 2	< 0.5	0.99	< 1	18	2	< 0.2	1.49	12	< 1	< 5
31588	< 2	0.9	1	< 0.3	< 1	60	2	22	< 0.01	7.51	< 0.5	< 50	2	< 2	< 0.5	0.89	< 1	14	< 1	< 0.2	1.58	8	< 1	< 5
31589	< 2	0.8	1	< 0.3	1	72	2	38	< 0.01	6.69	< 0.5	800	2	< 2	< 0.5	0.77	< 1	19	2	< 0.2	1.57	8	< 1	< 5
31590	< 2	0.5	< 1	< 0.3	< 1	62	2	13	< 0.01	7.22	2.8	< 50	2	< 2	1.3	1.26	< 1	11	4	< 0.2	0.74	5	< 1	< 5
31591	< 2	< 0.3	< 1	< 0.3	< 1	47	2	8	< 0.01	6.87	3.4	< 50	2	< 2	2.3	1.00	2	7	8	< 0.2	0.53	3	< 1	< 5
31592	< 2	0.8	1	< 0.3	< 1	77	3	15	< 0.01	7.19	4.8	< 50	2	3	< 0.5	1.31	< 1	11	4	< 0.2	0.97	10	< 1	< 5
31593	< 2	< 0.3	144	0.8	< 1	< 3	33	112	0.75	4.58	< 0.5	< 50	< 1	< 2	< 0.5	5.66	38	27	< 1	1.3	10.2	3	< 1	< 5
31594	< 2	< 0.3	110	0.6	< 1	5	32	116	1.88	5.81	4.3	< 50	< 1	< 2	< 0.5	6.31	36	19	3	1.1	8.96	3	< 1	< 5

Activation Laboratories Ltd. Report: A07-6420

Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
31583	1.91	0.09	133	2.59	0.015	169	< 0.1	2.3	< 3	77	< 0.5	0.11	94.1	74.4	8	< 1	26	76.7	165	48	9.3	< 0.01	< 0.5	2.8
31584	2.99	0.03	74	1.74	0.004	231	< 0.1	0.8	< 3	88	< 0.5	0.06	28.7	224	6	< 1	9	27.9	49	< 5	< 0.1	< 0.01	< 0.5	0.8
31585	2.12	0.05	127	2.08	0.005	136	< 0.1	1.4	< 3	83	2.0	0.12	38.2	309	13	< 1	15	37.4	66	< 5	< 0.1	< 0.01	< 0.5	1.7
31586	2.64	0.25	167	1.96	0.027	234	< 0.1	4.1	< 3	97	< 0.5	0.18	78.0	81.2	17	< 1	27	66.2	135	41	7.1	< 0.01	< 0.5	1.3
31587	3.60	0.13	180	2.28	0.025	168	< 0.1	2.7	< 3	98	< 0.5	0.15	100	112	12	< 1	29	81.4	166	54	8.8	< 0.01	< 0.5	1.9
31588	3.55	0.09	132	2.18	0.014	227	< 0.1	1.9	< 3	94	2.4	0.13	60.6	563	12	< 1	17	65.3	114	< 5	< 0.1	< 0.01	< 0.5	1.9
31589	4.04	0.10	178	2.00	0.018	163	< 0.1	2.4	< 3	88	< 0.5	0.18	111	145	16	< 1	34	95.9	197	56	10.2	< 0.01	< 0.5	2.3
31590	1.92	0.05	153	3.01	< 0.001	113	0.3	0.6	< 3	105	< 0.5	0.02	46.2	38.8	4	< 1	5	3.9	5	< 5	< 0.1	< 0.01	< 0.5	0.7
31591	2.76	0.08	97	2.97	< 0.001	160	< 0.1	0.8	< 3	99	< 0.5	0.02	30.2	16.7	2	< 1	4	2.9	5	< 5	< 0.1	< 0.01	< 0.5	0.6
31592	1.69	0.07	145	3.49	< 0.001	< 15	0.4	0.8	< 3	115	1.1	0.03	92.6	76.2	5	< 1	8	< 0.5	< 3	< 5	< 0.1	< 0.01	< 0.5	1.6
31593	0.55	2.20	1880	1.95	0.056	< 15	< 0.1	36.3	< 3	110	< 0.5	0.97	0.7	< 0.5	361	< 1	35	7.7	17	< 5	3.2	< 0.01	< 0.5	4.6
31594	0.65	2.31	2120	2.08	0.052	< 15	< 0.1	30.0	< 3	147	< 0.5	0.51	1.1	< 0.5	200	< 1	38	8.0	20	< 5	3.1	< 0.01	< 0.5	4.2

Analyte Symbol	Lu	Mass	U	Mass
Unit Symbol	ppm	g	ppm	g
Detection Limit	0.05		0.1	
Analysis Method	INAA	INAA	DNC	DNC
31583	< 0.05	22.8	70.5	1.076
31584	< 0.05	28.4	230	1.079
31585	< 0.05	30.9	321	1.066
31586	< 0.05	25.8	84.7	1.021
31587	< 0.05	21.7	111	1.054
31588	< 0.05	22.0	548	1.040
31589	< 0.05	24.4	149	1.051
31590	< 0.05	22.1	39.1	1.049
31591	0.16	25.7	14.5	1.070
31592	0.29	25.1	73.5	1.062
31593	0.72	31.1	0.6	1.040
31594	0.63	28.8	0.9	1.061

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Quality Control

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
Detection Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	
Analysis Method	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	
GXR-1 Meas		30.3		1240	4.2	16	738	45		763		0.23	1.87												
GXR-1 Cert		31.0		1110	3.30	18.0	730	41.0		760		0.257	3.52					1	1380					0.88	
DH-1a Meas																		1.22	1380					0.960	
DH-1a Cert																									
DNC-1 Meas		< 0.3		100		< 1	8	245		53		0.05	9.50				< 1	< 2						7.95	
DNC-1 Cert		0.0270		96.0		0.700	6.30	247		66.0		0.0390	9.69				1.00	0.0200						8.06	
GXR-4 Meas		3.7		6390	0.8	314	50	41		71		1.77	6.64				2	16						1.10	
GXR-4 Cert		4.00		6520	0.860	310	52.0	42.0		73.0		1.77	7.20				1.90	19.0						1.01	
GXR-2 Meas		17.8		108	2.5	5	707	20		514		0.02	9.21				2	< 2						0.82	
GXR-2 Cert		17.0		76.0	4.10	2.10	690	21.0		530		0.0313	16.5				1.70	0.690						0.930	
SDC-1 Meas		< 0.3		33	0.4	< 1	28	37		106		0.06	8.29				3	< 2						1.20	
SDC-1 Cert		0.0410		30.0	0.0800	0.250	25.0	38.0		103		0.0650	8.34				3.00	2.80						1.00	
SCO-1 Meas		< 0.3		30	0.4	< 1	29	31		101			7.14				2	< 2						2.10	
SCO-1 Cert		0.134		28.7	0.140	1.37	31.0	27.0		103			7.24				1.84	0.370						1.87	
GXR-6 Meas		0.6		75	1.4	< 1	97	28		127		0.01	12.8				1	6						0.22	
GXR-6 Cert		1.30		66.0	1.00	2.40	101	27.0		118		0.0160	17.7				1.40	0.290						0.180	
SY-2 Meas																									
SY-2 Cert																									
OREAS 13P Meas				2520				2180																	
OREAS 13P Cert				2500				2260																	
BL-4a Meas																									
BL-4a Cert																									
DMMAS-104 Meas	232									190				1570	870					49	92		1.7	5.56	
DMMAS-104 Cert	229									96.2				1570	850					48.6	95.1		1.2	5.61	
DMMAS-104 Meas	232									260				1550	830					45	94		1.7	5.58	
DMMAS-104 Cert	229									96.2				1570	850					48.8	95.1		1.2	5.61	
31591 Org		< 0.3		< 1	< 0.3	< 1	45	2		8		< 0.01	6.82				2	< 2						0.99	
31591 Dup		< 0.3		< 1	< 0.3	< 1	48	2		8		< 0.01	6.93				2	< 2						1.02	
31594 Split	< 2		< 5						< 20		< 50			5.1	< 50				< 0.5		37	22	4	1.3	9.56
Method Blank Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	1		1		< 0.01	< 0.01				< 1	< 2						< 0.01	
Method Blank Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		1		< 0.01	< 0.01				< 1	< 2						< 0.01	
Method Blank Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01				< 1	< 2						< 0.01	

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Quality Control

Analyte Symbol	Hf	Hg	Ir	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppm	ppm	ppb	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	5	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Analysis Method	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
GXR-1 Meas				0.05	0.20	916		0.057					293											
GXR-1 Cert				0.0500	0.217	852		0.0650					275					91			34			
DH-1a Meas																		80.0			32.0			
DH-1a Cert																								
DNC-1 Meas				0.21	5.82	1110		0.025					126		0.29			146			18			
DNC-1 Cert				0.190	6.06	1150		0.0370					145		0.287			148			18.0			
GXR-4 Meas				4.27	1.70	162		0.122					216					94			16			
GXR-4 Cert				4.01	1.66	155		0.120					221					87.0			14.0			
GXR-2 Meas				1.30	0.75	849		0.053					138					55			12			
GXR-2 Cert				1.37	0.850	1010		0.105					160					52.0			17.0			
SDC-1 Meas				1.97	1.02	927		0.051					182		0.20			47			40			
SDC-1 Cert				2.72	1.02	883		0.0690					183		0.606			102			40.0			
SCO-1 Meas				1.90	1.60	417		0.079					163		0.31			125			24			
SCO-1 Cert				2.30	1.64	410		0.0900					174		0.380			131			26.0			
GXR-6 Meas				1.66	0.61	1090		0.032					45					154			13			
GXR-6 Cert				1.87	0.609	1010		0.0350					35.0					186			14.0			
SY-2 Meas																								
SY-2 Cert																								
OREAS 13P Meas																								
OREAS 13P Cert																								
BL-4a Meas																								
BL-4a Cert																								
DMMAS-104 Meas							3.50			6.3	14.2					8.2	70.5		6		38.6	65	21	4.4
DMMAS-104 Cert							3.43			6.2	14.1					6.3	71.9		6		36.6	62.9	19.9	4.3
DMMAS-104 Meas							3.37			6.5	14.8					8.2	71.5		7		38.6	66	20	4.0
DMMAS-104 Cert							3.43			6.2	14.1					8.3	71.9		6		36.6	62.9	18.8	4.3
31591 Orig			2.21	0.07	94			< 0.001					97		0.02									
31591 Dup			3.31	0.08	100			< 0.001					100		0.02			3			4			
31594 Split	3	< 1	< 5				2.20		< 15	< 0.1	31.3	< 3		< 0.5		1.0	< 0.5	2		< 1	3			
Method Blank Method Blank				< 0.01	< 0.01	1		< 0.001					< 1		< 0.01			< 2		< 1				
Method Blank Method Blank				< 0.01	< 0.01	2		< 0.001					< 1		< 0.01			< 2		< 1				
Method Blank Method Blank				< 0.01	< 0.01	1		< 0.001					< 1		< 0.01			< 2		< 1				
Method Blank Method Blank																								

Quality Control

Analyte Symbol	Sn	Tb	Yb	Lu	Mass	U	Mass
Unit Symbol	%	ppm	ppm	ppm	g	ppm	g
Detection Limit	0.01	0.5	0.2	0.05		0.1	
Analysis Method	INAA	INAA	INAA	INAA	INAA	DNC	DNC
GXR-1 Meas							
GXR-1 Cert							
DH-1a Meas						2660	
DH-1a Cert						2630	
DNC-1 Meas							
DNC-1 Cert							
GXR-4 Meas							
GXR-4 Cert							
GXR-2 Meas							
GXR-2 Cert							
SDC-1 Meas							
SDC-1 Cert							
SCO-1 Meas							
SCO-1 Cert							
GXR-6 Meas							
GXR-6 Cert							
SY-2 Meas						282	
SY-2 Cert						284	
OREAS 13P Meas							
OREAS 13P Cert							
BL-4a Meas						1270	
BL-4a Cert						1250	
DMMAS-104 Meas			3.7	0.53			
DMMAS-104 Cert			3.0	0.4			
DMMAS-104 Meas			3.5	0.56			
DMMAS-104 Cert			3.0	0.4			
31591 Orig							
31591 Dup							
31594 Split	< 0.01	< 0.5	4.2	0.86	27.8	0.5	1.024
Method Blank Method Blank							
Method Blank Method Blank							
Method Blank Method Blank							
Method Blank Method Blank						< 0.1	1.000