

Shubenacadie River - Cobequid Bay

Mineral Sands Project

Colchester and Hants County, Nova Scotia, Canada

Assessment Report

for

25 Exploration Licenses

Year 2011 Drilling Program

Rare Earth Mineral Sands Inc.

(formerly Maritime Titanium Ltd.)

NTS: 11-E-03-C, 11-E-05-A and 11-E-06-B

**W.G. Shaw & Associates Ltd.
Consulting Geoscientists
February 15, 2012**

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1.0 Introduction

1.1 Introduction

The Shubenacadie River – Cobequid Bay Mineral Sands Project (The Project) is located in north-central Nova Scotia, Canada (Figures #1, #2 and #3). The Project encompasses 593 contiguous claims (9,488 Hectares, 94.8 square kilometres), that are held under 35 exploration licenses by Rare Earth Mineral Sands Inc. (formerly Maritime Titanium Ltd.), which is based in Windsor, Nova Scotia.

Between 1998 and 2005, Titanium Corporation Inc. conducted an extensive evaluation of the titanium potential of the sand deposits within the Shubenacadie River and Cobequid Bay. On the basis of 490 drill holes and associated sample analyses, Titanium Corporation published a resource of 330 million tonnes of sand having 1.936% heavy minerals in the Shubenacadie River and Cobequid Bay. The heavy mineral fraction contains 16.27% ilmenite, 16.51% leucoxene, 19.57% rutile, 4.24% garnet and 41.40% ferromagnetic minerals (Stafford and Warner, 2001). The exploration licenses covering this area were not renewed by Titanium Corporation Inc. in 2006.

Due to improving market conditions for titanium, during the winter and summer of Year 2010, Rare Earth Mineral Sands Inc. (formerly Maritime Titanium Ltd.) acquired the mineral rights to 400 claims in the Shubenacadie River and Cobequid Bay for the purpose of continuing the evaluation of the titanium, and other heavy mineral resources, within the mineral sands. A limited amount of sampling was done on sand bars at low tide by means of percussion and vibratory drilling (Pionjar and Vibracore), bulk sampling and channel sampling (Mitchell, 2010 and 2011).

In October 2010, NSDNR announced they had tested sand samples from the Shubenacadie River for rare earth elements (REEs) and the samples were found to contain some REEs. Based on this new discovery, Rare Earth Mineral Sands Inc. (REMSI) obtained an additional 193 claims in Cobequid Bay and included the testing for REEs in its exploration program.

This assessment report describes the resource evaluation work that was conducted on 25 Exploration Licenses as listed in Table #2.

This report was prepared by W.G. Shaw & Associates Ltd. at the request of Rare Earth Mineral Sands Inc., a Nova Scotia registered company with its corporate office located at:

102 Gerrish Street
Windsor, Nova Scotia
Canada, B0N 2T0

This report is intended to fulfill the requirements for an Assessment Report for submission to the Nova Scotia Department of Natural Resources in support of the renewal of the Exploration Licenses listed in Table #2 (Figure #4).

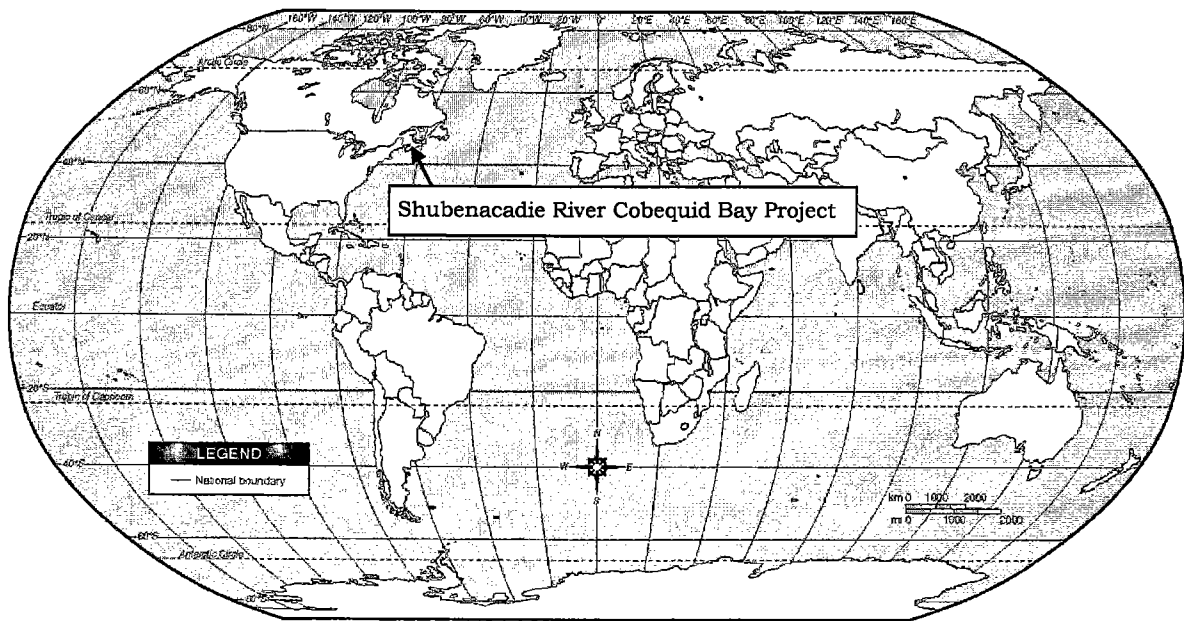


Figure #1 – World Location Map

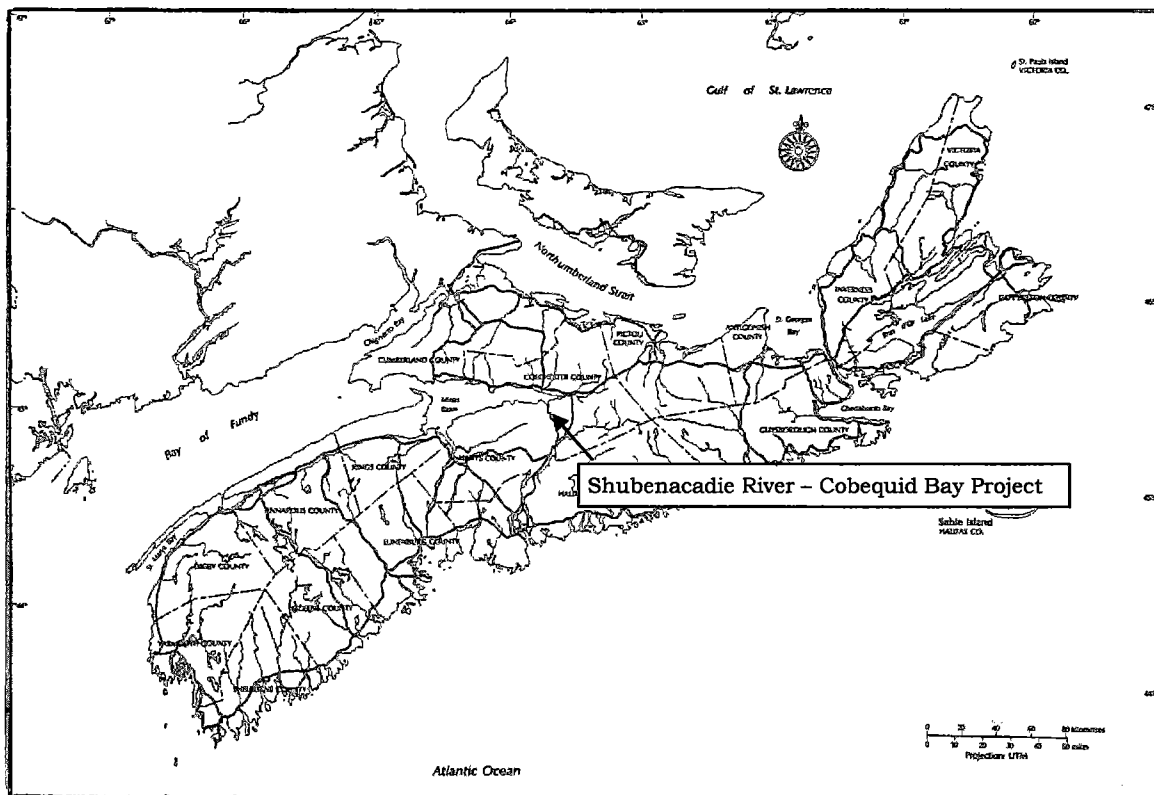


Figure #2 Location of Shubenacadie River – Cobequid Bay Mineral Sands Project on Map of Nova Scotia

1.2 Summary

REMSI began a Pionjar Percussion Drilling program in early October of 2011 and completed the drilling program in early November of 2011. Logging and sampling were completed in late November of 2011. The program consisted of a total of 61 drill holes, aggregating 231 metres, with total depths ranging from 0.75 to 4.50 metres (Figure #4, Tables #3 and #4). The drilling contractor was Sonic Soil Sampling Inc. of Concorde, Ontario using one to two drill crews.

The purpose of the drill program was to collect samples of sand from the bars within Cobequid Bay and Shubenacadie River for the purpose of determining their heavy mineral content, major element concentrations and concentrations of rare earth elements.

The results of total heavy minerals, major oxide and REE analyses of the 333 samples are tabulated in Table #3 and the laboratory certificates are provided in Appendix B.

Some of the more significance features of the analytical results are as follows:

- 1) The heavy mineral content of the 318 samples analyzed ranges from 0.51 to 8.16 weight percent (%) with a mean of 2.84 % for the entire sample population.
- 2) The heavy mineral fractions of the samples contain anomalous concentrations of titanium with TiO_2 concentrations ranging from 3.3 to 22.5 weight percent with a mean of 18.9 wt.%.
- 3) Within the "heavy mineral fraction", rare earth element concentrations are slightly anomalous especially with respect to cerium, lanthanum and neodymium. Total REEs concentrations within the HM Fractions range from 483 mg/kg to 4,240 mg/kg with a mean value of 1,943 mg/kg (Table #3, Appendix B).
- 4) The rare earth elements-bearing mineral is monazite (Appendix D).

Table #1 Personnel List

Shubenacadie River - Cobequid Bay Project

Personnel List

Name	Title	Location	Dates Worked
Calkin, Tom	General Manager of REMSI	102 Gerrish St., Windsor, N.S.	October 01, 2011 to February 15, 2012
Cole, Cyril	Laboratory Consultant	Halifax, Nova Scotia	October 01, 2011 to February 15, 2012
Dalhousie University	MEC Analytical Laboratory	Halifax, Nova Scotia	October 01, 2011 to February 15, 2012
Ron Hilchey	Field Operations Manager	Dartmouth, N.S.	October 01, 2011 to February 15, 2012
Shubenacadie Wave Runners Ltd.	Boat Contractors	8681 H #215, Maitland, Nova Scotia	October 01 to November 10, 2011
Sonic Soil Sampling Inc.	Drilling Contractors	Millwood Av., Concorde, Ontario	October 01 to November 10, 2011
Tidal Bore Rafting Inc.	Boat Contractors	Urbania, Nova Scotia	October 01 to November 10, 2011
White, James	Manager	102 Gerrish St., Windsor, N.S.	October 01, 2011 to February 15, 2012
W.G. Shaw & Assoc. Ltd.	Consulting Geoscientists	Antigonish, Nova Scotia	October 01, 2011 to February 15, 2012

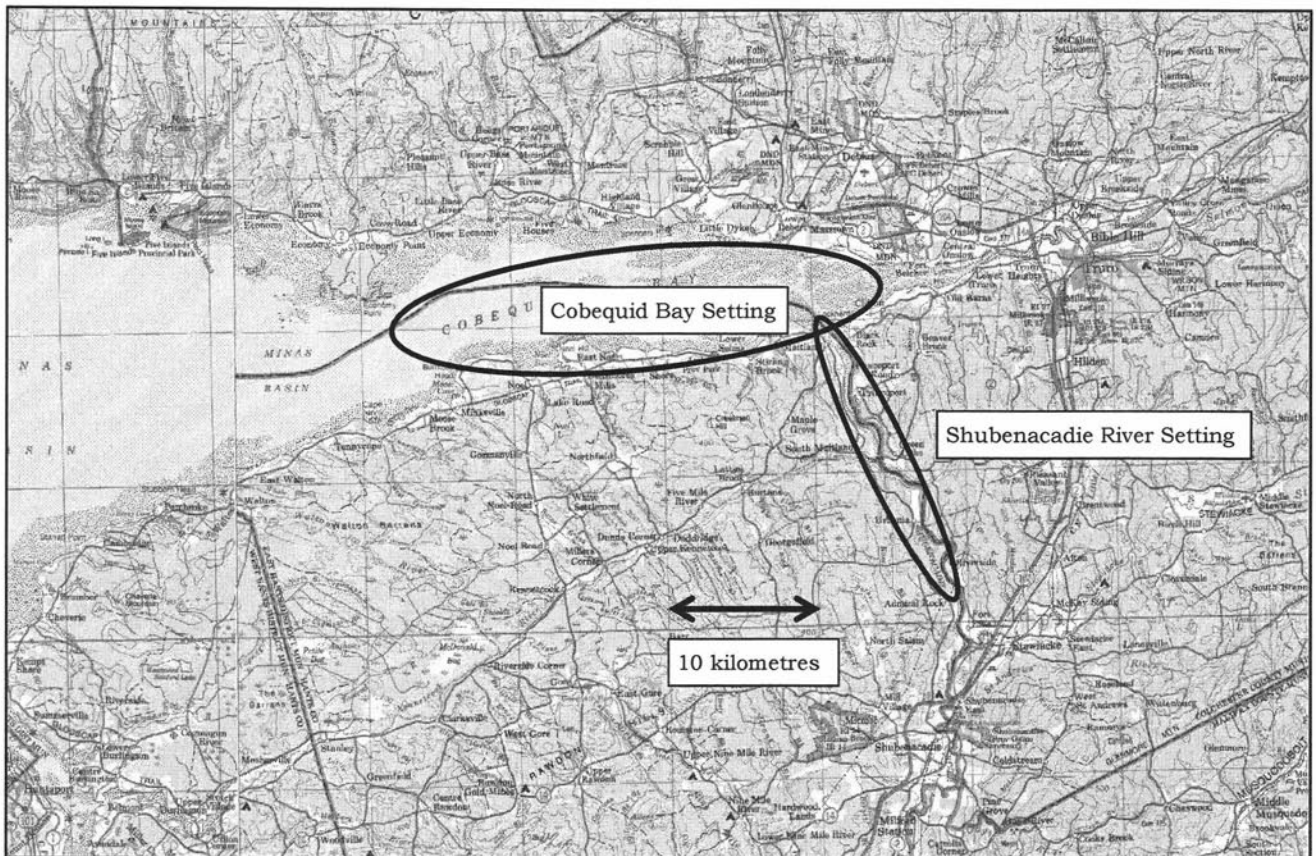


Figure #3 Location of the Shubenacadie River – Cobequid Bay Mineral Sands Project

2.0 Location, Access, and Physiography

The Shubenacadie River – Cobequid Bay Mineral Sands Project is located in central Nova Scotia within the Counties of Colchester and Hants. The Project Area is being conducted within two (2) distinct geographic settings: 1) the Shubenacadie River Setting which extends from the Village of Stewiacke in the south, to 20 kilometres to the north-northwest where the Shubenacadie River discharges into Cobequid Bay, and 2) the Cobequid Bay Setting which encompasses most of Cobequid Bay (Figure #3).

The Project Area can be reached by car by travelling 12 kilometres south of the Town of Truro on Highway #102 at which point Highway #289 can be used to travel west for 15 kilometres to the Gosse Bridge which is within the center of the Project Area. There is an abundance of secondary highways that can be used to access all parts of the Project Area. The best manner of access to the sand bars is by using small boats that can be launched from numerous points along the Shubenacadie River and Cobequid Bay.

The area is subject to twice daily tides which are as high as 15 metres in the Bay and 2 to 3 metres in Shubenacadie River. On incoming tides, a “tidal bore” or standing wave up to 3 metres high can rush up the river and swamp small boats.

At low tide sand bars are exposed in the Shubenacadie River and Cobequid Bay. Slight changes in the location and shape of the sand bars occurs on a small scale with every tide, but generally retain their basic shape over several years. Sand bars in the river are elongate, flat and with small (several centimetres) ripples. Sand bars in the bay have small ripples as well as larger surface irregularities that have 1 metre of relief over short distances.

Industry in the area consists of forestry operations, tourist operations (several river rafting outfits), greenhouse operations and farming.

The Project Area has a humid, temperate, continental climate that is somewhat modified by the proximity to the Bay of Fundy and the Gulf of St. Lawrence. The mean annual temperature is 6.8 C°. The mean annual temperature is 6.8 C°. The warmest temperatures are generally in July, with a mean of 18 C°, and the coldest temperatures are in February with a mean of -6°.

The area receives total annual precipitation of 120 to 150 centimetres with a mean annual figure of 138 centimetres. Much of the precipitation and moisture surplus occurs within one distinct wet season from mid-November to mid-March. Snowfall events occur between late November to early April with

typical total yearly snowfall accumulations in the order of 3.1 metres. A warming trend from March through April releases the snow pack, and eliminates the frost cover to generate a major surface water runoff and groundwater recharge event from March to May. There is generally a significant dry season that lasts from June to mid-September. The summer season is generally relatively dry with rainfall accumulations of less than 10 centimetres common for the months of June, July and August.

3.0 Claim Status (License Tabulation)

The Shubenacadie River – Cobequid Bay Project consists of 593 claims which aggregates a total area of 9,488 Hectares (94.8 square kilometres). This assessment report provides a description of the methods and results of work conducted on the Exploration Licenses listed in Table #2, below. These licenses are 100% owned by Rare Earth Mineral Sands Inc. and are in their 2nd and 3rd Year of issue.

All of the work conducted in Year 2011 and Year 2012 was conducted on Crown Land.

Table #2 License Tabulation

Rare Earth Mineral Sands Inc.Shubenacadie River - Cobequid Bay Project

License Number	Date of Issue	Reference Map	Tract Number	Claims	Number of Claims
09019	2010-02-17	11-E-06-B	14	AFGH JKLM NO	10
09020	2010-02-17	11-E-06-B	61 83 84 86 87	All Claims DEFJ KLMN OPQ All Claims All Claims All Claims	16 11 16 16 16
09021	2010-02-17	11-E-03-C	65	N	1
09022	2010-02-17	11-E-03-C	65	AGHK L	5
09023	2010-02-17	11-E-03-C	81 88	AHJQ AHJO PQ	4 6
09024	2010-02-17	11-E-03-C	106	All Claims	16
09090	2010-05-07	11-E-03-C	105	ABCD EF	6
09091	2010-05-07	11-E-03-C	31 41 42 56	CFLO Q CFLM N ABGH JKPQ	4 1 5 8
09092	2010-05-07	11-E-06-B	10 15	CDEF LMNO CDEF M	8 5
09093	2010-05-07	11-E-06-B	35 36 37 38 59 60	CDEM N AHJQ AHJQ DEMN O CDEF LM AGHJ KOPQ	5 4 4 5 6 8
09094	2010-05-07	11-E-06-B	85	All Claims	16
09096	2010-05-07	11-E-06-B	88 89	EFGH JKLM NOPQ EFGH JKLM NOPQ	12 12
09186	2010-07-28	11-E-05-A	71 72 73 74 95 96	Q HJKL NOPQ All Claims All Claims All Claims All Claims	1 8 16 16 16 16
09187	2010-07-28	11-E-05-A	70 75 94	BCDE FGKL MNOP Q All Claims All Claims	13 16 16
09196	2010-07-28	11-E-03-C	64	Q	1
09197	2010-07-28	11-E-03-C	65	F	1
09198	2010-07-28	11-E-03-C	80 89	DEMN DEMN	4 4
09199	2010-07-28	11-E-03-C	88	N	1
09201	2010-07-28 2010-07-28	11-E-03-C	55 65 66	N J DEM	1 1 3
09202	2010-07-28	11-E-03-C	65	O	1
09203	2010-07-28	11-E-03-C	65	M	1
09381	2010-10-27	11-E-05-A	69 76 77 93 100	EFGH JKLM NOPQ All Claims All Claims All Claims All Claims	12 16 16 16 16
09382	2010-10-27	11-E-05-A	78 90 91 92 103	All Claims All Claims All Claims All Claims All Claims	16 16 16 16 16
09383	2010-10-27	11-E-05-A	79	JKLM NOPQ	8
09384	2010-10-27	11-E-06-B	104 105 106 107 108	D ABCD ABCD ABDC EFGH ABCD EFGH JKLM	1 4 4 8 12

Total Number of Claims

555

4.0 Previous Work

1980s

Interest in the mineral resource value of the sand deposits within the Shubenacadie River and Cobequid Bay began 1980s when the Nova Scotia Department of Natural Resource conducted some preliminary studies of the mineral content of the sands.

1997 – 2003

The first commercial investigation of the sands was initiated in 1997 by Titanium Corporation that held the mineral rights to approximately 50 square kilometres and conducted extensive drilling, logging and testing of sand samples. The work consisted of:

- 1) field sampling programs to determine the size and grade of the resource and provide material for lab tests;
- 2) Sonar and seismic surveys to establish sand volumes and sand-gravel-bedrock horizons;
- 3) technical valuation to assess the project's economic viability;
- 4) pre-feasibility study including environmental, biological and groundwater aspects;
- 5) mineralogical studies to determine mineral content and mineral process procedures to upgrade and separate the desired mineral components,
- 6) establishing a gravity, electromagnetic and electrostatic test facility at Daltech in Halifax, Nova Scotia to concentrate and separate the minerals and

During this time, Titanium Corporation reported the presence of a resource of 330 million tonnes containing 1.936% Heavy Minerals in 12 sand bars within these claims. The heavy minerals of interest consist of the titanium minerals ilmenite (16.27%), leucoxene (16.51%) and rutile (19.57%). Added value may be gained from zircon (1.67%), garnet (4.24%) and ferromagnetic minerals (41.40%).

2010 to August of 2011

In January, Maritime Titanium Ltd. gathered additional samples from the same general areas that was worked by Titanium Corporation. These samples were sent to the Minerals Engineering Centre (MEC) in Halifax for REEs, sink-float and elemental analysis (Mitchell, 2011). Testing was done on raw samples and magnetic separation fractions from heavy mineral sinks. Cyril Cole detailed the process. Erwin Shutfort then interpreted the MEC data and produced a report detailing the nature of the light and heavy REE's (Mitchell, 2011).

In July of 2010, Mitchell (2010) produced a Summary Report (Appendix 3) which compiled past work and recommended more drilling and mineral process testing with the intention of producing an updated and potentially larger resource.

In January of 2011 samples were again collected on License #09092 (Figure #3). These samples were analyzed at Dalhousie University - MEC for basic elements and REEs. Sink-float analysis was also done and the sink portion of sample R#1 was separated into magnetic and non-magnetic fractions (Mitchell, 2011). Based on the results, Cyril Cole suggested that monazite was the mineral containing the REEs. Following the analysis, Erwin Shutfort interpreted the REE results and indicated there are two phases of REEs, both light and heavy where REEs are concentrated in the heavy mineral suite.

In June of 2011, eight (8) samples of river sands were collected on Licences #09186 and #09187; these samples are labelled MT -A, -B, -D, -E, -F, -G, -H and -I on Figure #3. The samples were collected from emergent sand bars at low tide which were reached by boat. The samples were collected by hand digging small pits with a hand shovel to depths of 0.30 metres from which 2 to 3 kilograms of sand were extracted and placed in plastic buckets which were then transported to Dalhousie University, Minerals Engineering Centre for testing. At Dalhousie, the samples were analyzed for heavy mineral content, major oxides and rare earth elements (REEs)(Appendix B). The analyses for major oxides and REEs were conducted on the heavy mineral fraction which was generated from the raw sample by heavy liquid separation using tetrabromomethane ($SG = 2.95$).

The results were reported in an Assessment Report submitted to the NSDXNR by Rare Earth Mineral Sands Inc. dated August 24, 2011.

5.0 Work Conducted October 01, 2011 to February 15, 2012

5.1 Percussion Drilling

REMSI began a Pionjar Percussion Drilling program in early October of 2011 and completed the drilling program in early November of 2011. Logging and sampling were completed in late November of 2011. The program consisted of a total of 61 drill holes, aggregating 231 metres, with total depths ranging from 0.75 to 4.50 metres (Figure #4, Table #3). The drilling contractor was Sonic Soil Sampling Inc. of Concorde, Ontario using one to two drill crews.

The locations of the drill hole collar sites were determined by handheld GPS instruments shortly after completion of each drill hole.

The purpose of the drill program was to collect samples of sand from the bars within Cobequid Bay and Shubenacadie River for the purpose of determining their heavy mineral content, major element concentrations and concentrations of rare earth elements.

5.2 Core Logging, Sampling, Analysis and Core Storage

Drill core was logged, photographed and sampled within a rented shed located at Tidal Bore Rafting Inc., Urbania, Hants County, Nova Scotia. The core samples were collected in intervals of 0.75 metres.

At every 20th to 25th sample, one of two certified reference standards was inserted in the sampling sequence. A field blank was strategically inserted once every 20 to 25 samples.

A total of 318 drill core samples were transported to Dalhousie University, Minerals Engineering Centre for testing. At Dalhousie, the samples were analyzed for heavy mineral content (THMs), major oxides and rare earth elements (REEs)(Appendix B). The analyses for major oxides and REEs were conducted on the heavy mineral fraction which was generated from the raw sample by heavy liquid separation using tetrabromethane (SG = 2.95).

The analytical method for all parameters was a Li-metaborate/Li-tetraborate fusion with a ICP OES finish, except for L.O.I where a sample was heated to 1000 C° (Appendix C).

Explanation



Grid North (NAD 83)

Claim Group Boundary

Exploration License

REMSI
(2011-10-27) Anniversary Date
#09096 Exploration Number

26 Drill Hole Location

15 Drill Hole Location
(Planned, Not Drilled)

W.G. Shaw & Assoc. Ltd.
Consulting Geoscientists



4546 Highway No.7
Antigonish, Nova Scotia
Canada B2G 2L3

Scale = 1:100,000

Rare Earth Mineral Sands Inc.

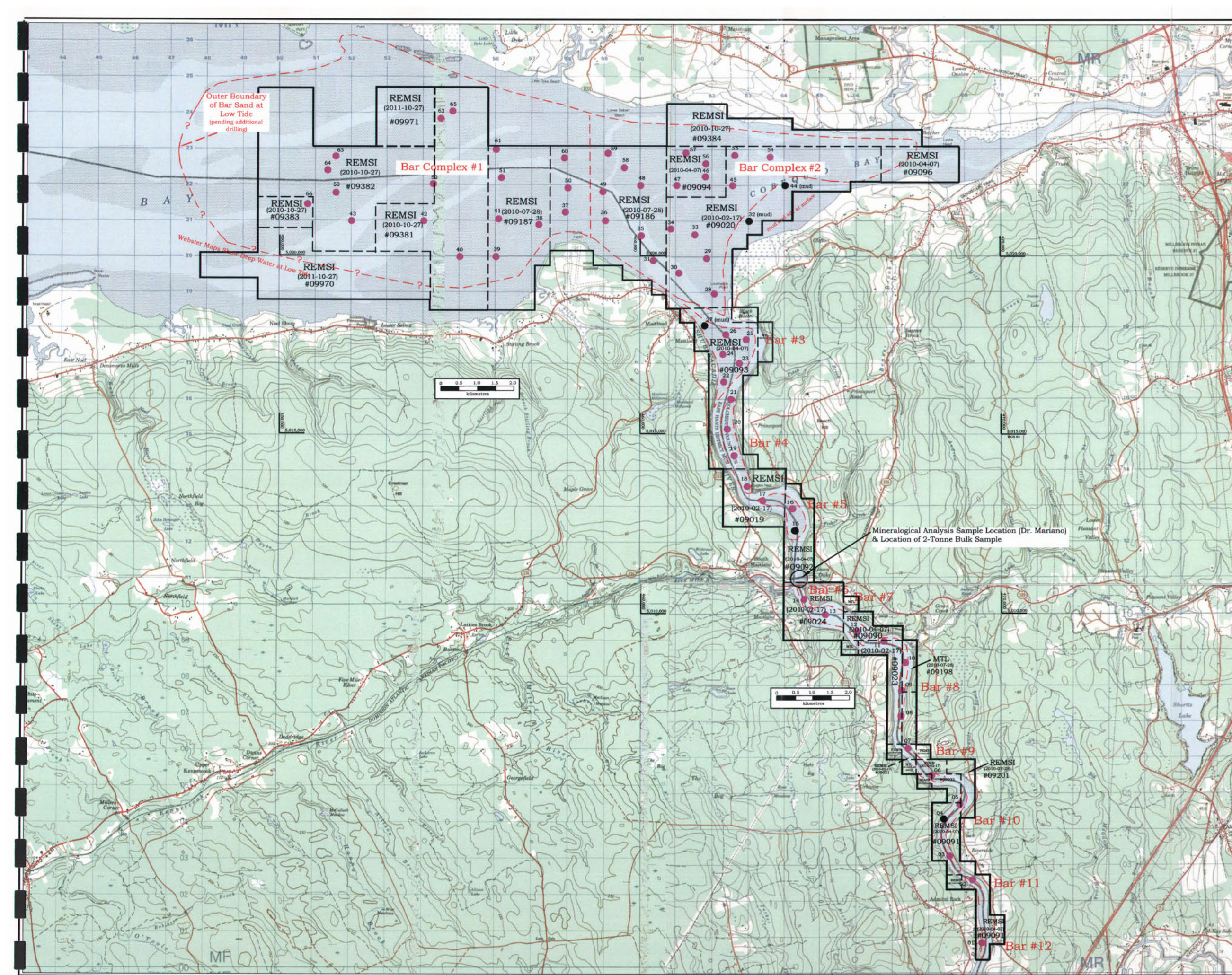
Shubenacadie River - Cobequid Bay
Mineral Sands Project

Nova Scotia, Canada

Figure #4

Topographic, Claims and Drill Hole Locations

February, 2012



5.3 Mineralogical Analysis of Two Sand Samples (A.N. Mariano, 2011)

The heavy mineral concentrate fraction from two (2) samples of sand from the general area of the Gosse Bridge were submitted to Dr. Anthony Mariano for mineralogical analysis. The results of the analysis are provide in Appendix D of this assessment report.

5.4 Bulk Sample Testing (Robbins Metallurgical Inc.)

A 2-tonne, bulk sample of heavey mineral-bearing sand was collected from a location near the Gosse Bridge and shipped to Robbins Metallurgical Inc. of Brisbane, Australia. The results of the testing are expected to be received by REMSI in the Spring of 2012.



Photograph #1 Drilling on the Shubenacadie River

Table #3

Rare Earth Mineral Sands Inc.

March 31, 2012

Core Hole ID	Location		Schedule	Total Depth	Notes
	UTM NAD 83 (Z 20)		Date Completed	metres	
	Easting	Northing			
			Year-month-day		
SRCB 2011 - 01	469,497	5,000,830	2011-10-28	4.50	
SRCB 2011 - 02	469,232	5,002,572	2011-10-28	3.75	
SRCB 2011 - 03	468,600	5,003,229	2011-10-28	2.25	
SRCB 2011 - 04					Did Not Drill - Logistics
SRCB 2011 - 05	468,890	5,004,671	2011-10-28	4.50	
SRCB 2011 - 06	468,342	5,005,212	2011-10-28	4.50	
SRCB 2011 - 07	467,443	5,006,236	2011-10-29	4.50	
SRCB 2011 - 08	467,227	5,007,137	2011-10-29	3.00	
SRCB 2011 - 09	467,252	5,007,841	2011-10-29	4.50	
SRCB 2011 - 10	467,291	5,008,681	2011-10-25	3.00	refusal at 3.00 m
SRCB 2011 - 11	466,616	5,009,178	2011-10-25	3.96	refusal at 3.96 m
SRCB 2011 - 12	465,758	5,009,942	2011-10-25	3.96	refusal at 3.96 m
SRCB 2011 - 13	465,274	5,010,244	2011-10-25	3.75	refusal at 3.75 m
SRCB 2011 - 14	464,630	5,010,318	2011-10-25	3.00	
SRCB 2011 - 15					Did Not Drill - Logistics
SRCB 2011 - 16	464,111	5,013,230	2011-10-27	4.50	
SRCB 2011 - 17	463,307	5,013,180	2011-10-27	4.50	
SRCB 2011 - 18	462,921	5,013,731	2011-10-23	4.50	
SRCB 2011 - 19	462,557	5,014,312	2011-10-23	4.50	
SRCB 2011 - 20	462,408	5,014,933	2011-10-23	3.75	
SRCB 2011 - 21	462,236	5,015,457	2011-10-23	3.00	
SRCB 2011 - 22	462,281	5,016,505	2011-10-23	2.60	refusal at 2.6 m; outcrops close to shore
SRCB 2011 - 23	463,061	5,017,145	2011-10-23	4.50	
SRCB 2011 - 24	462,289	5,017,197	2011-10-23	3.00	refusal at 3.05 m; clay in hole
SRCB 2011 - 25	462,882	5,017,583	2011-10-23	4.50	
SRCB 2011 - 26	462,534	5,017,714	2011-10-23	4.00	refusal at 4.0 m
SRCB 2011 - 27					Not Drilled - Too Muddy
SRCB 2011 - 28	462,010	5,018,956	2011-10-21	4.50	
SRCB 2011 - 29	461,811	5,019,947	2011-10-21	4.50	
SRCB 2011 - 30	461,060	5,019,533	2011-10-18	4.50	
SRCB 2011 - 31	460,376	2,019,898	2011-10-19	4.50	
SRCB 2011 - 32					Did Not Drill - Too Muddy
SRCB 2011 - 33	461,526	5,020,405	2011-11-03	4.50	
SRCB 2011 - 34	460,839	5,020,778	2011-11-03	4.50	
SRCB 2011 - 35	460,018	5,020,582	2011-10-19	3.00	refusal at 3.0 m
SRCB 2011 - 36	459,002	5,021,004	2011-10-21	4.50	
SRCB 2011 - 37	457,989	5,021,347	2011-11-02	3.75	
SRCB 2011 - 38	457,199	5,020,930	2011-10-28	2.50	
SRCB 2011 - 39	455,959	5,020,127	2011-10-22	4.50	

Rare Earth Mineral Sands Inc.

March 31, 2012

Core Hole ID	Location		Schedule	Total Depth	Notes
	UTM NAD 83 (Z 20)		Date Ccompleted	metres	
	Easting	Northing			
			Year-month-day		
SRCB 2011 - 40	454,802	5,020,145	2011-10-22	3.00	refusal at 3.0 metres
SRCB 2011 - 41	456,068	5,021,038	2011-10-28	3.75	
SRCB 2011 - 42	454,234	5,020,752	2011-10-22	4.50	
SRCB 2011 - 43	452,244	5,020,592	2011-10-29	3.75	refusal at 3.75 m
SRCB 2011 - 44					Did Not Drill - Too Muddy
SRCB 2011 - 45	462,530	5,021,995	2011-10-29	3.75	
SRCB 2011 - 46	461,793	5,022,144	2011-10-29	3.00	refusal at 3.0 m
SRCB 2011 - 47	461,005	5,022,075	2011-10-22	4.50	
SRCB 2011 - 48	460,162	5,022,026	2011-10-28	3.75	
SRCB 2011 - 49	458,949	5,021,799	2011-10-21	4.50	
SRCB 2011 - 50	457,981	5,021,927	2011-10-21	4.50	
SRCB 2011 - 51	456,121	5,022,214	2011-11-02	3.75	
SRCB 2011 - 52	454,291	5,022,044	2011-10-27	2.25	refusal at 2.25 m
SRCB 2011 - 53	451,564	5,020,761	2011-10-29	3.75	
SRCB 2011 - 54	463,519	5,022,781	2011-10-22	4.50	
SRCB 2011 - 55	462,613	5,022,810	2011-10-22	4.50	
SRCB 2011 - 56	461,812	5,022,588	2011-10-22	3.75	
SRCB 2011 - 57	461,904	5,022,561	2011-10-22	4.50	
SRCB 2011 - 58	459,536	5,022,409	2011-11-03	3.00	
SRCB 2011 - 59	459,109	5,022,886	2011-11-03	3.00	
SRCB 2011 - 60	457,902	5,022,690	2011-10-21	4.50	
SRCB 2011 - 61	456,018	5,022,654	2011-11-02	4.50	
SRCB 2011 - 62	454,299	5,022,916	2011-10-29	0.75	
SRCB 2011 - 63	451,564	5,022,793	2011-10-29	3.75	
SRCB 2011 - 64	451,331	5,022,393	2011-10-29	4.50	
SRCB 2011 - 65	454,764	5,024,055	2011-11-03	3.00	
SRCB 2011 - 66	450,779	5,021,453	2011-11-02	0.75	

Total Metreage

231.52

6.0 Results

The results of total heavy minerals, major oxide and REE analyses of the 333 samples are tabulated in Table #3 and the laboratory certificates are provided in Appendix B.

Some of the more significant features of the analytical results are as follows:

- 1) The heavy mineral content of the 318 samples analyzed ranges from 0.51 to 8.16 weight percent (%) with a mean of 2.84 % for the entire sample population.
- 2) The heavy mineral fractions of the samples contain anomalous concentrations of titanium with TiO_2 concentrations ranging from 3.3 to 22.5 weight percent with a mean of 18.9 wt.%.
- 3) Within the “heavy mineral fraction”, rare earth element concentrations are slightly anomalous especially with respect to cerium, lanthanum and neodymium. Total REEs concentrations within the HM Fractions range from 483 mg/kg to 4,240 mg/kg with a mean value of 1,943 mg/kg (Table #3, Appendix B).
- 4) The rare earth elements-bearing mineral is monazite (Appendix D).

7.0 Conclusions

Rare Earth Mineral Sands Inc., and earlier explorers, have discovered and characterized a large resource of mineral sands within the Shubenacadie River and Cobequid Bay, Nova Scotia. These mineral sands contain potentially valuable resources of titanium, zircon and REEs.

The discovery of REEs associated with the heavy mineral fraction of the sand deposits within the Shubenacadie River – Cobequid Bay enhances the potential commercial value of the mineral sands.

On the basis of our current knowledge of the mineral sand deposits within the Shubenacadie River - Cobequid Bay Project Area, the project warrants additional resource evaluation work that will enable the Project to enter the “advanced exploration stage”.

8.0 Recommendations

The following recommendations are proposed for the purpose of progressing the Shubenacadie River – Cobequid Bay Mineral Sands Project to the “advanced exploration” stage.

- 1) Conduct an evaluation of the historical heavy mineral sands evaluation work conducted by Titanium Corporation between 1998 and 2004 and determine whether the results can be utilized in a revised “mineral deposit model – resource evaluation”.
- 2) Generate a “mineral deposit model – resource estimate” that is compliant with National Instrument 43-101.
- 3) Conduct a “preliminary economic assessment” of dredge-mining the sand resources to recover titanium, magnetite, zircon and REEs.
- 4) On the basis of Steps #1 to #4, above, conduct a broad-spectrum, scoping study of the Shubenacadie River - Cobequid Bay Mineral Sands Project with the objective of determining the most promising areas for “advanced stage” resource evaluation for iron, titanium and REEs.

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- 2003: Titanium, Cobequid Bay, Hants and Colchester Counties, Nova Scotia. Report on Pionjar Drilling, Drill Core Sampling and Heavy Minerals Analyses of Sand Bars [Assessment Work Report for Exploration License 04713], by Po, A Y, Titanium Corporation Incorporated, Assessment Report ME 2003-053, 2003, 20 page(s), 1 map(s). ISN: 20429

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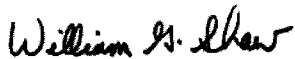
Appendix A

Certificate of Qualifications

I, William G. Shaw of 4546 Highway #7, Antigonish, Nova Scotia, hereby certify that:

- 1) I am currently president of W.G. Shaw & Associates Ltd. the office of which is located at 4546 Highway #7, Antigonish, Nova Scotia, Canada.
- 2) I graduated with a B.Sc. in geoscience from St. Francis Xavier University at Antigonish, Nova Scotia in 1978 and M.Sc. in geoscience from Dalhousie University, Halifax, Nova Scotia in 1982.
- 3) I am a Professional Geoscientist registered in the Province of Nova Scotia (RN #0055).
- 4) I have been employed in my profession for a total of twenty nine (29) years. This work has included employment with major oil companies, junior oil companies, junior mining companies, consulting engineering firms, and municipal governments.
- 5) I am the principle author of the technical report titled "Shubenacadie River - Cobequid Bay Mineral Sands Project; Assessment Report for 25 Exploration Licenses, Year 2011 Drilling Program, dated February 15, 2012.
- 6) I have visited the property on approximately 20 occasions between October 01, 2011 and February 15, 2012 for the purpose of evaluating the mineral sand resources.
- 7) I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report.

Dated this 30th day of March, 2012



William G. Shaw, *P.Geo.*
President, W.G. Shaw & Associates Ltd.

Appendix B

Core Logs

Rare Earth Mineral Sands Inc.
Log Legend

Sediment Type	
Cobbles and Gravel	
Gravely Sand	GS
Sandy Gravel	SG
Sand	Sand
Silty Sand	Silty Sand
Sandy Silt	Sandy Silt
Silt	Silt
Mud	

Sorting	
Porly Sorted	PS
Moderately Sorted	MS
Well Sorted	WS

Roundness	
Angular	A
Subangular	SA
Subrounded	SR
Rounded	R

Colour	
black	B
dark grey	DG
medium grey	MG
light grey	LG
beige	BE
reddish-brown	RB
dark brown	DB

Mineralization	
magnetite	mt
ilmenite	il
biotite	bi
muscovite	mu
quartz	qz

Grain Size	
very coarse sand	VCS
coarse sand	CS
medium sand	MS
fine sand	FS
very fine sand	VFS
silt	SI
mud (clay)	Mud

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
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|---|---|---|---|---|---|---|---|---|-----|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 5 |
|---|---|---|---|---|---|---|---|---|-----|---|

10

Rare Earth Earth Mineral Sands Inc.

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Rare Earth Earth Mineral Sands Inc.

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Rare Earth Earth Mineral Sands Inc.

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Rare Earth Earth Mineral Sands Inc.

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Rare Earth Earth Mineral Sands Inc.

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Rare Earth Earth Mineral Sands Inc.

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Rare Earth Earth Mineral Sands Inc.

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Appendix C

Laboratory Reports from Dalhousie University

Oxide Analysis – Whole Rock Geochemistry

(Al₂O₃, BaO, CaO, Cr₂O₃, Fe₂O₃, K₂O, MgO, MnO, Na₂O, P₂O₅, SiO₂, SrO, TiO₂, V₂O₅, ZrO₂)

Samples (0.05 to 0.5g) are mixed with a flux of lithium metaborate and lithium tetraborate (2.000g). The mix is fused in platinum crucibles at 1050°C for one hour using a Claiss M4 fusion fluxer. The fusion is quenched and dissolved in 10% nitric acid in a 150ml Teflon beaker. The solution is made up to 250ml in a volumetric flask. Dilutions may be required for analysis of some elements. The elements are determined by ICP OES. Reference samples from CANMET and other recognized agencies are analyzed with the samples to ensure that the fusions, digestions, and ICP OES analysis are complete and accurate.

Loss on Ignition (LOI) is performed using porcelain crucibles and a muffle furnace. A 0.5000 to 1.0000 gram sample is weighed into the porcelain crucible and heated to 1000 °C for one hour. The weight loss is calculated and reported as % LOI.

Reference: U.S. Geological Survey Bulletin 1401
Rapid Analysis of Silicate, Carbonate
and Phosphate Rocks-Revised Edition
By Leonard Shapiro

Geological Survey of Canada Paper 74-19
Analysis of Rocks and Minerals using
an Atomic Absorption Spectrophotometer
By Sydney Abbey, Naomi J.Lee and J.L.Bouvier

Rare Earth Analysis (REE's)

(Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sm, Sc, Tb, Tm, Y, Yb)

Samples (0.1 to 0.5g) are mixed with a flux of lithium metaborate and lithium tetraborate (2.0g). The mix is placed in platinum crucibles and fused using a Claisse M4 fluxer at 1050°C. The fusion is leached with 90 ml of 1:9 nitric acid in a teflon 150ml beaker. The solution is transferred into a 250ml volumetric flask. The flasks are made up to the 250ml mark, topped, and shaken. Dilutions may be required for analysis for some elements. The elements are determined by ICP OES. Certified reference samples are analyzed with the samples to ensure that the fusions, digestions, and ICP OES analysis are complete and accurate.

Detection limits will vary depending on sample type and spectral interferences. In general, REE detection limits are between 5 to 10 mg/kg.

8-Dec-11

minerals.engineering.dal.ca
Tel: 902.494.3955
Fax: 902.494.3506
Email: mec@dal.ca

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

Re: Results of heavy liquid separation (TBE 2.96 g/cm³).
Samples dried at 105°C and screened to remove +2mm material.
HM content calculated on dry basis, adjusted for +2mm fraction.

| Sample | Wt. (g) | | | Wt. % | | |
|----------|-----------------------|-------------------------|------|----------|-------|-------------------|
| | Wt.
Rec'd
(wet) | <2mm
Used
for HLS | HM | Moisture | +2mm | Heavy
Minerals |
| SRCB-001 | 329 | 138.1 | 4.26 | 15.81 | 0.00 | 3.08 |
| SRCB-002 | 594 | 123.3 | 3.55 | 16.67 | 0.00 | 2.88 |
| SRCB-003 | 993 | 131.1 | 2.74 | 15.61 | 0.00 | 2.09 |
| SRCB-004 | 986 | 117.0 | 2.14 | 15.42 | 0.00 | 1.83 |
| SRCB-005 | 847 | 139.9 | 1.81 | 17.59 | 0.00 | 1.29 |
| SRCB-006 | 487 | 112.3 | 2.42 | 17.45 | 0.00 | 2.15 |
| SRCB-007 | 732 | 122.1 | 2.43 | 18.03 | 0.00 | 1.99 |
| SRCB-008 | 568 | 120.3 | 3.27 | 14.61 | 0.00 | 2.72 |
| SRCB-009 | 719 | 147.5 | 4.37 | 17.11 | 0.00 | 2.96 |
| SRCB-010 | 918 | 118.8 | 3.76 | 7.30 | 0.00 | 3.16 |
| SRCB-011 | 924 | 118.7 | 1.96 | 17.10 | 0.00 | 1.65 |
| SRCB-012 | 372 | 117.8 | 3.46 | 15.32 | 0.00 | 2.94 |
| SRCB-013 | 674 | 138.0 | 4.20 | 17.66 | 0.00 | 3.04 |
| SRCB-014 | 907 | 119.4 | 3.50 | 5.40 | 0.00 | 2.93 |
| SRCB-015 | 1013 | 120.4 | 2.58 | 15.10 | 0.00 | 2.14 |
| SRCB-016 | 1632 | 125.0 | 2.46 | 18.20 | 0.00 | 1.97 |
| SRCB-017 | 576 | 130.5 | 3.13 | 9.03 | 0.00 | 2.40 |
| SRCB-018 | 767 | 121.6 | 2.29 | 18.38 | 0.00 | 1.88 |
| SRCB-019 | 880 | 126.3 | 1.76 | 8.07 | 0.00 | 1.39 |
| SRCB-020 | 1024 | 132.4 | 1.80 | 16.89 | 0.00 | 1.36 |
| SRCB-021 | 605 | 135.6 | 2.05 | 9.75 | 0.00 | 1.51 |
| SRCB-022 | 579 | 118.8 | 2.23 | 17.62 | 0.00 | 1.88 |
| SRCB-023 | 947 | 114.2 | 1.84 | 14.26 | 18.05 | 1.32 |
| SRCB-024 | 839 | 122.5 | 2.42 | 17.28 | 0.00 | 1.98 |
| SRCB-025 | | | | | | |
| SRCB-026 | | | | | | |
| SRCB-027 | 355 | 119.2 | 1.44 | 10.42 | 0.00 | 1.21 |
| SRCB-028 | 372 | 112.9 | 1.60 | 18.82 | 0.00 | 1.42 |
| SRCB-029 | 449 | 136.0 | 2.21 | 18.49 | 0.00 | 1.63 |
| SRCB-030 | 546 | 111.7 | 2.09 | 18.13 | 0.00 | 1.87 |
| SRCB-031 | 928 | 131.9 | 1.86 | 8.73 | 0.00 | 1.41 |
| SRCB-032 | 1000 | 128.5 | 2.59 | 17.10 | 0.00 | 2.02 |

| Sample | Wt. (g) | | | Wt. % | | |
|----------|-----------------|-------------------|------|----------|-------|----------------|
| | Wt. Rec'd (wet) | <2mm Used for HLS | HM | Moisture | +2mm | Heavy Minerals |
| SRCB-033 | 666 | 137.3 | 5.52 | 17.12 | 0.00 | 4.02 |
| SRCB-034 | 634 | 129.8 | 2.64 | 15.77 | 0.00 | 2.03 |
| SRCB-035 | 909 | 126.2 | 2.98 | 10.23 | 0.00 | 2.36 |
| SRCB-036 | 860 | 132.7 | 2.63 | 16.51 | 0.56 | 1.97 |
| SRCB-037 | 454 | 146.6 | 3.41 | 13.00 | 0.00 | 2.33 |
| SRCB-038 | 645 | 133.1 | 2.79 | 17.52 | 0.00 | 2.10 |
| SRCB-039 | 419 | 136.1 | 3.23 | 13.13 | 0.00 | 2.37 |
| SRCB-040 | 627 | 127.5 | 2.81 | 18.02 | 0.00 | 2.20 |
| SRCB-041 | 396 | 121.5 | 3.30 | 14.65 | 0.00 | 2.72 |
| SRCB-042 | 584 | 120.4 | 3.86 | 17.12 | 0.00 | 3.21 |
| SRCB-043 | 1006 | 123.8 | 1.27 | 20.08 | 0.00 | 1.03 |
| SRCB-044 | 1036 | 128.8 | 2.90 | 20.17 | 0.00 | 2.25 |
| SRCB-045 | 676 | 133.4 | 3.43 | 7.54 | 0.00 | 2.57 |
| SRCB-046 | 980 | 125.3 | 5.03 | 17.24 | 0.00 | 4.01 |
| SRCB-047 | 403 | 127.0 | 4.09 | 17.37 | 0.00 | 3.22 |
| SRCB-048 | 542 | 140.6 | 5.23 | 16.97 | 0.00 | 3.72 |
| SRCB-049 | 590 | 122.6 | 3.56 | 16.61 | 0.00 | 2.90 |
| SRCB-050 | 900 | 131.1 | 3.35 | 17.11 | 0.00 | 2.56 |
| SRCB-051 | | | | | | |
| SRCB-052 | | | | | | |
| SRCB-053 | 638 | 124.3 | 3.97 | 6.58 | 0.00 | 3.19 |
| SRCB-054 | 913 | 130.9 | 2.29 | 16.54 | 0.00 | 1.75 |
| SRCB-055 | 588 | 124.6 | 2.47 | 14.97 | 0.00 | 1.98 |
| SRCB-056 | 622 | 128.7 | 2.99 | 17.04 | 0.00 | 2.32 |
| SRCB-057 | 902 | 128.5 | 2.44 | 6.98 | 0.84 | 1.88 |
| SRCB-058 | 969 | 129.3 | 2.13 | 14.65 | 0.00 | 1.65 |
| SRCB-059 | 397 | 134.0 | 2.84 | 8.82 | 0.00 | 2.12 |
| SRCB-060 | 619 | 127.7 | 2.59 | 16.64 | 0.78 | 2.01 |
| SRCB-061 | 478 | 128.2 | 3.39 | 13.81 | 0.00 | 2.64 |
| SRCB-062 | 690 | 143.2 | 4.04 | 16.81 | 0.00 | 2.82 |
| SRCB-063 | 942 | 132.7 | 3.17 | 9.55 | 0.00 | 2.39 |
| SRCB-064 | 935 | 129.3 | 2.54 | 11.34 | 0.00 | 1.96 |
| SRCB-065 | 451 | 133.1 | 2.75 | 5.76 | 0.00 | 2.07 |
| SRCB-066 | 818 | 132.3 | 3.42 | 14.18 | 0.00 | 2.59 |
| SRCB-067 | 1018 | 133.0 | 4.77 | 16.40 | 0.00 | 3.59 |
| SRCB-068 | 1071 | 123.8 | 3.33 | 13.07 | 22.76 | 2.08 |
| SRCB-069 | 672 | 125.2 | 2.16 | 11.61 | 0.00 | 1.73 |
| SRCB-070 | 810 | 128.7 | 2.24 | 18.15 | 0.00 | 1.74 |
| SRCB-071 | 324 | 135.0 | 3.88 | 16.36 | 0.00 | 2.87 |
| SRCB-072 | 346 | 125.2 | 1.94 | 17.05 | 0.00 | 1.55 |
| SRCB-073 | 891 | 130.9 | 2.98 | 14.37 | 0.00 | 2.28 |

Daniel Chevalier
Manager, Minerals Engineering Centre



15-Dec-11

Rare Earth Minerals Sands Inc.
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minerals.engineering.dal.ca
Tel: 902.494.3955
Fax: 902.494.3506
Email: mec@dal.ca

Re: Results of heavy liquid separation (TBE 2.96 g/cm3).
Samples dried at 105°C and screened to remove +2mm material.
HM content calculated on dry basis, adjusted for +2mm fraction.

| Sample | Wt. (g) | | | Wt. % | | |
|-----------|-----------------------|-------------------------|------|----------|------|-------------------|
| | Wt.
Rec'd
(wet) | <2mm
Used
for HLS | HM | Moisture | +2mm | Heavy
Minerals |
| SRCB-074 | 1014 | 131.3 | 2.39 | 17.55 | 0.00 | 1.82 |
| SRCB-075 | 407 | 131.3 | 1.81 | 3.44 | 0.00 | 1.38 |
| SRCB-076 | 487 | 126.8 | 2.04 | 16.43 | 0.00 | 1.61 |
| SRCB-077 | 312 | 137.1 | 2.92 | 11.54 | 0.00 | 2.13 |
| SRCB-078 | 565 | 117.1 | 2.29 | 17.17 | 0.00 | 1.96 |
| SRCB-078B | 1369 | 141.8 | 4.03 | 16.65 | 0.70 | 2.82 |
| SRCB-079 | | | | | | |
| SRCB-080 | | | | | | |
| SRCB-081 | 791 | 123.9 | 6.05 | 8.98 | 0.00 | 4.88 |
| SRCB-082 | 638 | 129.7 | 2.72 | 18.34 | 0.00 | 2.10 |
| SRCB-083 | 299 | 125.4 | 3.36 | 15.72 | 0.00 | 2.68 |
| SRCB-084 | 289 | 119.1 | 2.23 | 16.96 | 0.00 | 1.87 |
| SRCB-085 | 926 | 128.0 | 2.36 | 10.48 | 0.00 | 1.84 |
| SRCB-086 | 1029 | 131.9 | 4.34 | 17.59 | 0.00 | 3.29 |
| SRCB-087 | 458 | 122.3 | 3.06 | 13.76 | 0.00 | 2.50 |
| SRCB-088 | 941 | 120.8 | 6.19 | 17.75 | 0.00 | 5.12 |
| SRCB-089 | 274 | 129.0 | 4.47 | 16.42 | 0.00 | 3.47 |
| SRCB-090 | 599 | 123.6 | 5.36 | 17.03 | 0.00 | 4.34 |
| SRCB-091 | 934 | 132.4 | 1.79 | 8.78 | 0.00 | 1.35 |
| SRCB-092 | 1004 | 131.2 | 3.37 | 16.04 | 0.00 | 2.57 |
| SRCB-093 | 555 | 117.9 | 3.07 | 14.05 | 1.05 | 2.58 |
| SRCB-094 | 692 | 141.0 | 4.09 | 18.21 | 0.00 | 2.90 |
| SRCB-095 | 362 | 151.7 | 3.93 | 16.02 | 0.00 | 2.59 |
| SRCB-096 | 1006 | 128.3 | 2.72 | 17.59 | 0.00 | 2.12 |
| SRCB-097 | 999 | 126.4 | 1.72 | 18.52 | 0.00 | 1.36 |
| SRCB-098 | 529 | 122.0 | 2.87 | 7.18 | 0.00 | 2.35 |
| SRCB-099 | 702 | 142.3 | 4.57 | 18.52 | 0.00 | 3.21 |
| SRCB-100 | 595 | 126.9 | 2.27 | 14.29 | 0.00 | 1.79 |
| SRCB-101 | 644 | 130.7 | 5.11 | 18.94 | 0.00 | 3.91 |
| SRCB-102 | 897 | 126.1 | 3.37 | 8.36 | 0.00 | 2.67 |
| SRCB-103 | 1002 | 127.1 | 1.77 | 18.36 | 0.00 | 1.39 |
| SRCB-104 | | | | | | |

| Sample | Wt. (g) | | | Wt. % | | |
|-----------|-----------------------|-------------------------|------|----------|-------|-------------------|
| | Wt.
Rec'd
(wet) | <2mm
Used
for HLS | HM | Moisture | +2mm | Heavy
Minerals |
| SRCB-105 | | | | | | |
| SRCB-106 | 679 | 135.8 | 5.61 | 19.59 | 0.00 | 4.13 |
| SRCB-107 | 550 | 138.5 | 4.31 | 19.27 | 0.00 | 3.11 |
| SRCB-108 | 306 | 126.5 | 3.22 | 16.34 | 0.00 | 2.55 |
| SRCB-109 | 532 | 121.0 | 2.66 | 18.61 | 0.00 | 2.20 |
| SRCB-110 | 1013 | 128.5 | 4.06 | 18.46 | 0.00 | 3.16 |
| SRCB-111 | 906 | 141.4 | 4.86 | 8.83 | 0.00 | 3.44 |
| SRCB-112 | 409 | 141.7 | 4.71 | 7.09 | 0.00 | 3.32 |
| SRCB-113 | 913 | 117.3 | 6.81 | 17.31 | 0.00 | 5.81 |
| SRCB-113E | 449 | 140.8 | 5.40 | 18.04 | 0.00 | 3.84 |
| SRCB-114 | 928 | 110.0 | 4.35 | 17.67 | 0.00 | 3.95 |
| SRCB-114E | 857 | 129.6 | 3.17 | 12.72 | 30.29 | 1.70 |
| SRCB-115 | 958 | 127.2 | 2.90 | 15.76 | 7.70 | 2.10 |
| SRCB-115E | 365 | 133.0 | 8.66 | 6.30 | 55.56 | 2.89 |

Daniel Chevalier
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22-Dec-11

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Tel: 902.494.3955
Fax: 902.494.3506
Email: mec@dal.ca

Re: Results of heavy liquid separation (TBE 2.96 g/cm³).
Samples dried at 105°C and screened to remove +2mm material.
HM content calculated on dry basis, adjusted for +2mm fraction.

| Sample | Wt. (g) | | | Wt. % | | |
|----------|-----------------------|-------------------------|------|----------|-------|-------------------|
| | Wt.
Rec'd
(wet) | <2mm
Used
for HLS | HM | Moisture | +2mm | Heavy
Minerals |
| SRCB-116 | 992 | 134.0 | 3.70 | 17.24 | 5.37 | 2.61 |
| SRCB-117 | 984 | 118.1 | 2.43 | 8.64 | 15.03 | 1.75 |
| SRCB-118 | 597 | 136.4 | 2.02 | 7.71 | 0.90 | 1.47 |
| SRCB-119 | 767 | 118.5 | 2.10 | 15.12 | 2.76 | 1.72 |
| SRCB-120 | 624 | 133.4 | 3.12 | 12.18 | 2.56 | 2.28 |
| SRCB-121 | 634 | 129.5 | 3.66 | 10.57 | 38.62 | 1.73 |
| SRCB-123 | 529 | 131.8 | 4.45 | 19.85 | 0.00 | 3.38 |
| SRCB-124 | 590 | 119.5 | 3.34 | 18.98 | 0.00 | 2.79 |
| SRCB-125 | 711 | 141.8 | 3.69 | 19.69 | 0.53 | 2.59 |
| SRCB-126 | 510 | 130.0 | 3.53 | 18.43 | 0.00 | 2.72 |
| SRCB-127 | 1017 | 129.2 | 5.34 | 18.29 | 0.00 | 4.13 |
| SRCB-128 | 1011 | 127.5 | 4.29 | 18.60 | 1.34 | 3.32 |
| SRCB-129 | 522 | 133.6 | 6.64 | 18.20 | 0.00 | 4.97 |
| SRCB-130 | 684 | 142.2 | 3.88 | 16.37 | 0.00 | 2.73 |
| SRCB-131 | 1113 | 116.6 | 2.38 | 10.69 | 31.55 | 1.40 |
| SRCB-132 | 1153 | 121.6 | 2.38 | 7.29 | 54.60 | 0.89 |
| SRCB-133 | 640 | 111.7 | 3.16 | 7.03 | 0.00 | 2.83 |
| SRCB-134 | 782 | 120.7 | 2.43 | 17.77 | 0.00 | 2.01 |
| SRCB-135 | 397 | 130.6 | 2.49 | 12.09 | 0.00 | 1.91 |
| SRCB-136 | 583 | 121.1 | 2.03 | 16.64 | 0.00 | 1.68 |
| SRCB-137 | 859 | 125.7 | 2.65 | 6.29 | 0.99 | 2.09 |
| SRCB-138 | 1043 | 120.7 | 2.57 | 8.63 | 39.60 | 1.29 |
| SRCB-139 | 357 | 112.8 | 2.88 | 15.13 | 0.00 | 2.55 |
| SRCB-140 | 637 | 129.3 | 1.18 | 18.05 | 0.00 | 0.91 |
| SRCB-141 | 640 | 137.7 | 2.08 | 13.44 | 0.00 | 1.51 |
| SRCB-142 | 733 | 113.7 | 2.04 | 17.19 | 0.00 | 1.79 |
| SRCB-143 | 931 | 132.5 | 2.57 | 9.24 | 0.00 | 1.94 |
| SRCB-144 | 1018 | 119.2 | 2.07 | 16.50 | 0.00 | 1.74 |
| SRCB-145 | 505 | 120.3 | 1.17 | 15.05 | 0.00 | 0.97 |
| SRCB-146 | 681 | 140.6 | 2.16 | 17.03 | 0.00 | 1.54 |
| SRCB-147 | 962 | 126.1 | 4.17 | 16.01 | 0.00 | 3.31 |
| SRCB-148 | 883 | 125.9 | 3.32 | 7.47 | 0.37 | 2.63 |
| SRCB-149 | 996 | 128.8 | 2.90 | 16.57 | 0.00 | 2.25 |

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Manager, Minerals Engineering Centre

22-Dec-11

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Re: Results of heavy liquid separation (TBE 2.96 g/cm³).
Samples dried at 105°C and screened to remove +2mm material.
HM content calculated on dry basis, adjusted for +2mm fraction.

| Sample | Wt. (g) | | | Wt. % | | |
|----------|-----------------------|-------------------------|------|----------|-------|-------------------|
| | Wt.
Rec'd
(wet) | <2mm
Used
for HLS | HM | Moisture | +2mm | Heavy
Minerals |
| SRCB-116 | 992 | 134.0 | 3.70 | 17.24 | 5.37 | 2.61 |
| SRCB-117 | 984 | 118.1 | 2.43 | 8.64 | 15.03 | 1.75 |
| SRCB-118 | 597 | 136.4 | 2.02 | 7.71 | 0.90 | 1.47 |
| SRCB-119 | 767 | 118.5 | 2.10 | 15.12 | 2.76 | 1.72 |
| SRCB-120 | 624 | 133.4 | 3.12 | 12.18 | 2.56 | 2.28 |
| SRCB-121 | 634 | 129.5 | 3.66 | 10.57 | 38.62 | 1.73 |
| SRCB-123 | 529 | 131.8 | 4.45 | 19.85 | 0.00 | 3.38 |
| SRCB-124 | 590 | 119.5 | 3.34 | 18.98 | 0.00 | 2.79 |
| SRCB-125 | 711 | 141.8 | 3.69 | 19.69 | 0.53 | 2.59 |
| SRCB-126 | 510 | 130.0 | 3.53 | 18.43 | 0.00 | 2.72 |
| SRCB-127 | 1017 | 129.2 | 5.34 | 18.29 | 0.00 | 4.13 |
| SRCB-128 | 1011 | 127.5 | 4.29 | 18.60 | 1.34 | 3.32 |
| SRCB-129 | 522 | 133.6 | 6.64 | 18.20 | 0.00 | 4.97 |
| SRCB-130 | 684 | 142.2 | 3.88 | 16.37 | 0.00 | 2.73 |
| SRCB-131 | 1113 | 116.6 | 2.38 | 10.69 | 31.55 | 1.40 |
| SRCB-132 | 1153 | 121.6 | 2.38 | 7.29 | 54.60 | 0.89 |
| SRCB-133 | 640 | 111.7 | 3.16 | 7.03 | 0.00 | 2.83 |
| SRCB-134 | 782 | 120.7 | 2.43 | 17.77 | 0.00 | 2.01 |
| SRCB-135 | 397 | 130.6 | 2.49 | 12.09 | 0.00 | 1.91 |
| SRCB-136 | 583 | 121.1 | 2.03 | 16.64 | 0.00 | 1.68 |
| SRCB-137 | 859 | 125.7 | 2.65 | 6.29 | 0.99 | 2.09 |
| SRCB-138 | 1043 | 120.7 | 2.57 | 8.63 | 39.60 | 1.29 |
| SRCB-139 | 357 | 112.8 | 2.88 | 15.13 | 0.00 | 2.55 |
| SRCB-140 | 637 | 129.3 | 1.18 | 18.05 | 0.00 | 0.91 |
| SRCB-141 | 640 | 137.7 | 2.08 | 13.44 | 0.00 | 1.51 |
| SRCB-142 | 733 | 113.7 | 2.04 | 17.19 | 0.00 | 1.79 |
| SRCB-143 | 931 | 132.5 | 2.57 | 9.24 | 0.00 | 1.94 |
| SRCB-144 | 1018 | 119.2 | 2.07 | 16.50 | 0.00 | 1.74 |
| SRCB-145 | 505 | 120.3 | 1.17 | 15.05 | 0.00 | 0.97 |
| SRCB-146 | 681 | 140.6 | 2.16 | 17.03 | 0.00 | 1.54 |
| SRCB-147 | 962 | 126.1 | 4.17 | 16.01 | 0.00 | 3.31 |
| SRCB-148 | 883 | 125.9 | 3.32 | 7.47 | 0.37 | 2.63 |
| SRCB-149 | 996 | 128.8 | 2.90 | 16.57 | 0.00 | 2.25 |

Daniel Chevalier
Manager, Minerals Engineering Centre

31-Jan-12

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

minerals.engineering.dal.ca
Tel: 902.494.3955
Fax: 902.494.3506
Email: mec@dal.ca

Re: Results of heavy liquid separation (TBE 2.96 g/cm³).
Samples dried at 105°C and screened to remove +2mm material.
HM content calculated on dry basis, adjusted for +2mm fraction.

| Sample | Wt. (g) | | | Wt. % | | |
|----------|-----------------------|-------------------------|-------|----------|-------|-------------------|
| | Wt.
Rec'd
(wet) | <2mm
Used
for HLS | HM | Moisture | +2mm | Heavy
Minerals |
| SRCB-150 | 914 | 118.6 | 2.61 | 6.56 | 0.82 | 2.18 |
| SRCB-152 | 498 | 129.0 | 3.49 | 17.07 | 0.00 | 2.71 |
| SRCB-153 | 474 | 122.3 | 2.60 | 17.09 | 0.00 | 2.13 |
| SRCB-154 | 752 | 125.6 | 3.59 | 17.69 | 0.00 | 2.86 |
| SRCB-155 | 541 | 139.0 | 2.95 | 17.56 | 0.00 | 2.12 |
| SRCB-156 | 934 | 126.9 | 3.71 | 12.63 | 0.00 | 2.92 |
| SRCB-157 | 1004 | 130.4 | 3.09 | 13.94 | 3.70 | 2.28 |
| SRCB-158 | 920 | 127.0 | 3.32 | 19.02 | 0.00 | 2.61 |
| SRCB-159 | 929 | 124.1 | 2.41 | 14.96 | 0.00 | 1.94 |
| SRCB-160 | 1033 | 122.5 | 3.40 | 15.78 | 9.54 | 2.51 |
| SRCB-162 | 833 | 128.2 | 1.89 | 18.37 | 0.00 | 1.47 |
| SRCB-163 | 436 | 134.7 | 2.08 | 15.83 | 1.37 | 1.52 |
| SRCB-164 | 376 | 132.6 | 3.20 | 17.02 | 0.00 | 2.41 |
| SRCB-165 | 1024 | 130.8 | 2.48 | 17.48 | 0.71 | 1.88 |
| SRCB-166 | 893 | 127.2 | 5.41 | 8.85 | 0.00 | 4.25 |
| SRCB-167 | 551 | 118.0 | 3.70 | 12.70 | 1.04 | 3.10 |
| SRCB-168 | 594 | 125.6 | 5.54 | 13.97 | 0.98 | 4.37 |
| SRCB-169 | 307 | 137.0 | 5.18 | 10.75 | 0.00 | 3.78 |
| SRCB-170 | 675 | 136.3 | 9.68 | 13.48 | 0.00 | 7.10 |
| SRCB-171 | 932 | 123.9 | 17.27 | 4.51 | 0.00 | 13.94 |
| SRCB-172 | 882 | 131.4 | 8.87 | 12.24 | 0.00 | 6.75 |
| SRCB-173 | 445 | 133.6 | 2.87 | 19.55 | 0.00 | 2.15 |
| SRCB-174 | 596 | 120.1 | 3.21 | 18.96 | 0.00 | 2.67 |
| SRCB-175 | 476 | 145.4 | 2.43 | 18.07 | 0.00 | 1.67 |
| SRCB-176 | 980 | 130.3 | 4.49 | 15.10 | 0.00 | 3.45 |
| SRCB-177 | 1052 | 126.3 | 6.79 | 16.35 | 7.87 | 4.95 |
| SRCB-178 | 765 | 119.3 | 3.84 | 17.25 | 0.00 | 3.22 |
| SRCB-179 | 656 | 146.2 | 5.87 | 10.06 | 0.00 | 4.02 |
| SRCB-180 | 111 | 97.3 | 1.74 | 9.01 | 0.00 | 1.79 |
| SRCB-181 | 416 | 127.1 | 3.32 | 18.27 | 0.00 | 2.61 |
| SRCB-182 | 1001 | 129.6 | 3.56 | 16.58 | 0.84 | 2.73 |
| SRCB-183 | 1055 | 123.8 | 5.19 | 5.40 | 38.59 | 2.57 |
| SRCB-184 | 699 | 118.3 | 5.89 | 17.02 | 0.00 | 4.98 |
| SRCB-185 | 245 | 128.6 | 6.65 | 14.69 | 0.96 | 5.12 |
| SRCB-186 | 838 | 127.7 | 4.27 | 11.46 | 30.99 | 2.31 |

| Sample | Wt. (g) | | | Wt. % | | |
|----------|-----------------------|-------------------------|-------|----------|-------|-------------------|
| | Wt.
Rec'd
(wet) | <2mm
Used
for HLS | HM | Moisture | +2mm | Heavy
Minerals |
| SRCB-187 | 1024 | 129.4 | 3.01 | 14.94 | 56.52 | 1.01 |
| SRCB-189 | 454 | 124.6 | 5.53 | 12.11 | 0.00 | 4.44 |
| SRCB-190 | 682 | 140.3 | 6.78 | 17.01 | 0.00 | 4.83 |
| SRCB-191 | 507 | 130.5 | 5.08 | 17.75 | 0.00 | 3.89 |
| SRCB-192 | 985 | 131.3 | 3.09 | 14.82 | 0.00 | 2.35 |
| SRCB-193 | 1051 | 124.5 | 4.89 | 16.08 | 9.32 | 3.56 |
| SRCB-195 | 579 | 122.3 | 2.54 | 15.03 | 0.00 | 2.08 |
| SRCB-196 | 385 | 130.2 | 3.55 | 19.22 | 0.00 | 2.73 |
| SRCB-197 | 923 | 134.4 | 3.22 | 15.38 | 0.00 | 2.40 |
| SRCB-198 | 1061 | 125.3 | 4.22 | 11.31 | 22.26 | 2.62 |
| SRCB-199 | 631 | 140.8 | 9.43 | 10.62 | 0.00 | 6.70 |
| SRCB-200 | 888 | 126.1 | 11.20 | 17.12 | 0.00 | 8.88 |
| SRCB-201 | 465 | 119.7 | 6.60 | 16.99 | 0.00 | 5.51 |
| SRCB-202 | 591 | 121.4 | 12.98 | 17.26 | 0.00 | 10.69 |
| SRCB-203 | 1012 | 130.1 | 5.93 | 17.09 | 0.00 | 4.56 |
| SRCB-204 | 1084 | 142.5 | 5.57 | 12.92 | 25.80 | 2.90 |
| SRCB-205 | 584 | 126.8 | 5.43 | 12.67 | 0.00 | 4.28 |
| SRCB-206 | 822 | 128.4 | 5.84 | 17.15 | 0.00 | 4.55 |
| SRCB-207 | 917 | 131.6 | 5.61 | 15.81 | 0.00 | 4.26 |
| SRCB-208 | 803 | 116.0 | 4.07 | 12.20 | 11.97 | 3.09 |
| SRCB-209 | 503 | 129.6 | 5.69 | 17.50 | 0.00 | 4.39 |
| SRCB-210 | 559 | 113.1 | 3.01 | 18.78 | 0.00 | 2.66 |
| SRCB-211 | 321 | 142.8 | 4.68 | 10.90 | 0.00 | 3.28 |
| SRCB-212 | 559 | 124.5 | 5.24 | 11.09 | 0.00 | 4.21 |
| SRCB-213 | 876 | 123.5 | 4.15 | 7.76 | 1.49 | 3.31 |
| SRCB-214 | 1018 | 118.5 | 4.91 | 16.70 | 0.00 | 4.14 |
| SRCB-215 | 612 | 141.6 | 2.17 | 7.03 | 0.00 | 1.53 |
| SRCB-216 | 546 | 114.5 | 2.23 | 15.75 | 0.00 | 1.95 |

Daniel Chevalier
Manager, Minerals Engineering Centre



3-Feb-12

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

minerals.engineering.dal.ca
Tel: 902.494.3955
Fax: 902.494.3506
Email: mec@dal.ca

Re: Results of heavy liquid separation (TBE 2.96 g/cm3).
Samples dried at 105°C and screened to remove +2mm material.
HM content calculated on dry basis, adjusted for +2mm fraction.

| Sample | Wt. (g) | | | Wt. % | | |
|----------|-----------------------|-------------------------|-------|----------|------|-------------------|
| | Wt.
Rec'd
(wet) | <2mm
Used
for HLS | HM | Moisture | +2mm | Heavy
Minerals |
| SRCB-217 | 382 | 124.1 | 1.88 | 12.30 | 0.00 | 1.51 |
| SRCB-218 | 138 | 118.2 | 2.16 | 14.49 | 0.00 | 1.83 |
| SRCB-219 | 921 | 117.0 | 2.07 | 9.12 | 0.00 | 1.77 |
| SRCB-220 | 997 | 131.3 | 2.59 | 15.65 | 0.00 | 1.97 |
| SRCB-223 | 559 | 130.7 | 1.14 | 4.29 | 1.12 | 0.86 |
| SRCB-224 | 680 | 125.1 | 2.06 | 12.06 | 1.17 | 1.63 |
| SRCB-225 | 679 | 120.5 | 1.91 | 13.99 | 1.20 | 1.57 |
| SRCB-226 | 974 | 120.4 | 1.88 | 9.86 | 2.85 | 1.52 |
| SRCB-227 | 883 | 117.9 | 1.80 | 12.23 | 2.45 | 1.49 |
| SRCB-228 | 506 | 134.0 | 5.83 | 15.22 | 0.00 | 4.35 |
| SRCB-229 | 657 | 135.2 | 3.56 | 17.81 | 0.00 | 2.63 |
| SRCB-230 | 743 | 126.9 | 3.11 | 15.75 | 0.00 | 2.45 |
| SRCB-231 | 834 | 128.5 | 4.48 | 10.19 | 0.00 | 3.49 |
| SRCB-232 | 947 | 117.0 | 1.73 | 10.24 | 1.65 | 1.45 |
| SRCB-233 | 642 | 132.6 | 3.28 | 16.82 | 0.00 | 2.47 |
| SRCB-234 | 680 | 143.2 | 4.81 | 15.88 | 0.00 | 3.36 |
| SRCB-235 | 1016 | 119.3 | 3.28 | 15.65 | 0.00 | 2.75 |
| SRCB-236 | 1030 | 121.6 | 2.35 | 15.63 | 0.00 | 1.93 |
| SRCB-237 | 982 | 122.5 | 1.19 | 11.41 | 0.46 | 0.97 |
| SRCB-238 | 602 | 121.9 | 1.94 | 18.11 | 0.00 | 1.59 |
| SRCB-239 | 634 | 128.6 | 0.659 | 18.77 | 0.00 | 0.51 |
| SRCB-240 | 871 | 121.2 | 1.15 | 18.83 | 0.00 | 0.95 |
| SRCB-241 | 909 | 118.9 | 1.98 | 16.61 | 0.00 | 1.67 |
| SRCB-242 | 985 | 126.8 | 2.52 | 17.46 | 0.00 | 1.99 |
| SRCB-243 | 1011 | 127.7 | 2.71 | 15.33 | 4.10 | 2.04 |
| SRCB-244 | 538 | 124.4 | 3.96 | 17.10 | 0.00 | 3.18 |
| SRCB-245 | 573 | 123.6 | 5.20 | 13.26 | 0.00 | 4.21 |
| SRCB-246 | 715 | 130.2 | 2.86 | 16.64 | 0.00 | 2.20 |
| SRCB-247 | 477 | 134.2 | 9.80 | 18.03 | 0.00 | 7.30 |
| SRCB-248 | 619 | 125.4 | 5.01 | 18.90 | 0.00 | 4.00 |
| SRCB-249 | 841 | 128.9 | 4.19 | 9.87 | 0.79 | 3.22 |
| SRCB-250 | 1014 | 121.5 | 4.88 | 14.50 | 0.00 | 4.02 |
| SRCB-251 | 592 | 124.5 | 5.28 | 15.20 | 0.00 | 4.24 |
| SRCB-252 | 552 | 127.7 | 5.01 | 17.75 | 0.00 | 3.92 |
| SRCB-253 | 786 | 121.7 | 2.49 | 16.92 | 0.00 | 2.05 |

| Sample | Wt. (g) | | | Wt. % | | |
|----------|-----------------|-------------------|-------|----------|-------|----------------|
| | Wt. Rec'd (wet) | <2mm Used for HLS | HM | Moisture | +2mm | Heavy Minerals |
| SRCB-254 | 881 | 116.5 | 3.09 | 6.13 | 0.00 | 2.65 |
| SRCB-255 | 970 | 131.3 | 3.75 | 13.51 | 0.00 | 2.86 |
| SRCB-256 | 300 | 123.4 | 5.68 | 18.00 | 0.00 | 4.60 |
| SRCB-257 | 605 | 123.2 | 9.63 | 18.51 | 0.00 | 7.82 |
| SRCB-258 | 518 | 114.6 | 7.12 | 11.00 | 0.00 | 6.21 |
| SRCB-259 | 700 | 144.2 | 7.89 | 17.57 | 0.00 | 5.47 |
| SRCB-260 | 991 | 124.4 | 5.39 | 17.05 | 0.00 | 4.33 |
| SRCB-261 | 1016 | 129.6 | 6.81 | 0.00 | 0.00 | 5.25 |
| SRCB-264 | 460 | 129.5 | 7.16 | 9.35 | 0.00 | 5.53 |
| SRCB-265 | 719 | 137.7 | 7.76 | 18.08 | 0.00 | 5.64 |
| SRCB-266 | 877 | 122.4 | 3.96 | 18.13 | 0.00 | 3.24 |
| SRCB-267 | 882 | 129.1 | 4.77 | 6.92 | 0.00 | 3.69 |
| SRCB-268 | 1031 | 120.6 | 3.45 | 16.20 | 0.00 | 2.86 |
| SRCB-269 | 606 | 129.8 | 4.82 | 13.86 | 0.00 | 3.71 |
| SRCB-270 | 370 | 126.0 | 3.09 | 18.65 | 0.00 | 2.45 |
| SRCB-271 | 574 | 116.7 | 3.41 | 17.94 | 0.00 | 2.92 |
| SRCB-272 | 849 | 126.0 | 2.09 | 5.18 | 0.00 | 1.66 |
| SRCB-273 | 1004 | 133.8 | 2.09 | 14.84 | 0.00 | 1.56 |
| SRCB-274 | 444 | 138.9 | 3.31 | 15.99 | 0.00 | 2.38 |
| SRCB-275 | 637 | 130.3 | 2.97 | 17.74 | 0.00 | 2.28 |
| SRCB-276 | 874 | 129.5 | 3.20 | 5.38 | 0.00 | 2.47 |
| SRCB-277 | 1002 | 132.6 | 2.30 | 15.67 | 0.00 | 1.73 |
| SRCB-278 | 882 | 127.7 | 3.13 | 6.69 | 0.00 | 2.45 |
| SRCB-279 | 995 | 122.2 | 2.55 | 12.96 | 0.00 | 2.09 |
| SRCB-280 | 599 | 129.9 | 10.15 | 12.69 | 0.00 | 7.81 |
| SRCB-281 | 785 | 120.7 | 6.48 | 17.71 | 0.00 | 5.37 |
| SRCB-282 | 1010 | 130.7 | 10.66 | 16.73 | 0.00 | 8.16 |
| SRCB-283 | 727 | 122.3 | 9.46 | 10.04 | 0.00 | 7.74 |
| SRCB-284 | 1016 | 119.8 | 5.24 | 16.14 | 0.00 | 4.37 |
| SRCB-285 | 650 | 134.4 | 3.11 | 16.92 | 0.00 | 2.31 |
| SRCB-286 | 758 | 128.5 | 3.21 | 16.09 | 0.00 | 2.50 |
| SRCB-287 | 974 | 130.5 | 2.39 | 13.55 | 0.00 | 1.83 |
| SRCB-288 | 888 | 119 | 3.82 | 4.28 | 0.00 | 3.21 |
| SRCB-289 | 666 | 133.7 | 4.83 | 13.96 | 0.00 | 3.61 |
| SRCB-290 | 571 | 131.4 | 4.5 | 7.36 | 0.00 | 3.42 |
| SRCB-291 | 891 | 133.3 | 3.55 | 12.91 | 0.00 | 2.66 |
| SRCB-292 | 963 | 129 | 2.4 | 13.50 | 0.24 | 1.86 |
| SRCB-293 | 806 | 131.4 | 2.49 | 4.34 | 0.00 | 1.89 |
| SRCB-296 | 461 | 128.9 | 6.48 | 10.63 | 0.00 | 5.03 |
| SRCB-297 | 547 | 132.1 | 3.11 | 14.26 | 0.00 | 2.35 |
| SRCB-298 | 502 | 119.3 | 2.47 | 4.58 | 0.00 | 2.07 |
| SRCB-299 | 640 | 132.3 | 3.72 | 16.72 | 0.00 | 2.81 |
| SRCB-300 | 862 | 128.7 | 3.19 | 4.18 | 0.00 | 2.48 |
| SRCB-301 | 973 | 126.4 | 2.72 | 16.55 | 0.00 | 2.15 |
| SRCB-302 | 679 | 136.8 | 3.59 | 7.95 | 0.00 | 2.62 |
| SRCB-303 | 616 | 125.7 | 5.06 | 18.02 | 0.00 | 4.03 |
| SRCB-304 | 995 | 120 | 3.3 | 14.27 | 0.00 | 2.75 |
| SRCB-305 | 1698 | 133.6 | 2.83 | 16.14 | 0.00 | 2.12 |
| SRCB-306 | 582 | 125.9 | 1.53 | 3.95 | 9.48 | 1.10 |
| SRCB-307 | 612 | 129.8 | 1.82 | 9.80 | 5.63 | 1.32 |
| SRCB-308 | 716 | 123 | 1.42 | 23.88 | 14.50 | 0.99 |

| Sample | Wt. (g) | | | Wt. % | | |
|----------|-----------------------|-------------------------|------|----------|------|-------------------|
| | Wt.
Rec'd
(wet) | <2mm
Used
for HLS | HM | Moisture | +2mm | Heavy
Minerals |
| SRCB-309 | 620 | 114 | 1.44 | 12.10 | 2.88 | 1.23 |
| SRCB-310 | 624 | 127.8 | 3.53 | 17.95 | 0.00 | 2.76 |
| SRCB-311 | 839 | 121.1 | 2.04 | 15.85 | 0.00 | 1.68 |
| SRCB-312 | 926 | 133 | 1.96 | 16.63 | 0.00 | 1.47 |
| SRCB-313 | 840 | 133 | 2.44 | 15.00 | 0.00 | 1.83 |
| SRCB-314 | 461 | 131.2 | 2.81 | 8.46 | 0.00 | 2.14 |
| SRCB-315 | 572 | 117.8 | 3.22 | 17.48 | 0.00 | 2.73 |
| SRCB-316 | 1607 | 123.6 | 5.27 | 17.42 | 0.00 | 4.26 |
| SRCB-317 | 880 | 126.8 | 3.83 | 15.57 | 0.00 | 3.02 |
| SRCB-318 | 707 | 121.4 | 2.82 | 15.56 | 0.00 | 2.32 |

Daniel Chevalier
Manager, Minerals Engineering Centre

16-Dec-11

Maritime Titanium
PO Box 351
Hantsport, NS
B0P 1P0
Attention: Elwood Dillman

Re: results of major oxide analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | Wt. % | | | | | | | | | | | | | | | Total |
|----------|--------------------------------|------|------|--------------------------------|--------------------------------|------------------|------|------|-------------------|-------------------------------|------------------|------|------------------|-------------------------------|------------------|--------|
| | Al ₂ O ₃ | BaO | CaO | Cr ₂ O ₃ | Fe ₂ O ₃ | K ₂ O | MgO | MnO | Na ₂ O | P ₂ O ₅ | SiO ₂ | SrO | TiO ₂ | V ₂ O ₅ | ZrO ₂ | |
| SRCB-001 | 6.57 | 0.07 | 5.56 | 0.05 | 23.40 | 0.63 | 4.72 | 1.79 | 0.76 | 0.78 | 35.42 | 0.02 | 19.60 | 0.06 | 0.63 | 100.06 |
| SRCB-002 | 6.64 | 0.06 | 5.33 | 0.05 | 25.71 | 0.63 | 4.46 | 1.96 | 0.84 | 0.74 | 33.15 | 0.02 | 20.38 | 0.06 | 0.69 | 100.72 |
| SRCB-003 | 6.60 | 0.06 | 5.27 | 0.05 | 25.40 | 0.65 | 4.37 | 1.95 | 0.85 | 0.73 | 33.42 | 0.02 | 20.12 | 0.06 | 0.66 | 100.21 |
| SRCB-004 | 6.96 | 0.06 | 5.13 | 0.04 | 24.74 | 0.74 | 4.22 | 1.68 | 0.91 | 0.65 | 35.47 | 0.02 | 18.19 | 0.06 | 0.50 | 99.38 |
| SRCB-005 | 7.17 | 0.05 | 5.54 | 0.04 | 25.57 | 0.72 | 4.56 | 1.78 | 0.91 | 0.68 | 34.33 | 0.02 | 19.97 | 0.06 | 0.47 | 101.89 |
| SRCB-006 | 6.34 | 0.06 | 4.44 | 0.05 | 19.47 | 0.83 | 3.84 | 1.45 | 0.88 | 0.66 | 44.58 | 0.02 | 14.88 | 0.04 | 0.55 | 98.09 |
| SRCB-007 | 6.47 | 0.06 | 5.44 | 0.05 | 24.08 | 0.65 | 4.48 | 1.80 | 0.89 | 0.86 | 33.84 | 0.02 | 20.65 | 0.05 | 0.53 | 99.88 |
| SRCB-008 | 6.38 | 0.06 | 4.74 | 0.05 | 23.36 | 0.72 | 4.00 | 1.74 | 0.89 | 0.70 | 37.07 | 0.02 | 17.93 | 0.05 | 0.68 | 98.38 |
| SRCB-009 | 6.39 | 0.06 | 5.13 | 0.04 | 25.61 | 0.62 | 4.05 | 2.01 | 0.83 | 0.86 | 31.59 | 0.02 | 20.80 | 0.06 | 0.68 | 98.75 |
| SRCB-010 | 6.59 | 0.06 | 5.15 | 0.04 | 23.73 | 0.66 | 4.20 | 1.96 | 0.77 | 0.77 | 33.77 | 0.02 | 19.63 | 0.05 | 0.65 | 98.06 |
| SRCB-011 | 7.15 | 0.06 | 5.52 | 0.04 | 24.84 | 0.71 | 4.32 | 1.75 | 0.91 | 0.67 | 33.75 | 0.02 | 18.41 | 0.06 | 0.39 | 98.62 |
| SRCB-012 | 6.02 | 0.10 | 4.46 | 0.05 | 28.58 | 0.54 | 3.76 | 2.62 | 0.68 | 0.72 | 31.67 | 0.02 | 19.12 | 0.07 | 1.59 | 100.00 |
| SRCB-013 | 6.23 | 0.08 | 4.42 | 0.04 | 26.94 | 0.65 | 3.69 | 2.10 | 0.82 | 0.71 | 34.69 | 0.02 | 18.47 | 0.06 | 0.95 | 99.87 |
| SRCB-014 | 6.36 | 0.07 | 4.62 | 0.05 | 27.92 | 0.59 | 3.72 | 2.28 | 0.69 | 0.71 | 31.41 | 0.02 | 19.73 | 0.06 | 0.96 | 99.19 |
| SRCB-015 | 6.47 | 0.05 | 4.82 | 0.04 | 23.37 | 0.71 | 4.01 | 1.86 | 0.84 | 0.71 | 33.58 | 0.02 | 19.77 | 0.05 | 0.59 | 96.90 |
| SRCB-016 | 6.51 | 0.06 | 4.99 | 0.05 | 25.14 | 0.68 | 4.20 | 2.02 | 0.82 | 0.70 | 33.88 | 0.02 | 20.31 | 0.06 | 0.67 | 100.11 |
| SRCB-017 | 6.66 | 0.05 | 5.30 | 0.04 | 22.57 | 0.68 | 4.54 | 1.65 | 0.72 | 0.73 | 34.40 | 0.02 | 20.27 | 0.05 | 0.38 | 98.06 |
| SRCB-018 | 6.36 | 0.06 | 5.55 | 0.05 | 22.41 | 0.66 | 4.86 | 1.70 | 0.77 | 0.76 | 34.93 | 0.02 | 20.28 | 0.05 | 0.49 | 98.95 |
| SRCB-019 | 7.11 | 0.05 | 5.49 | 0.05 | 21.04 | 0.85 | 4.73 | 1.39 | 0.91 | 0.75 | 37.96 | 0.02 | 18.03 | 0.05 | 0.33 | 98.76 |
| SRCB-020 | 6.91 | 0.05 | 5.55 | 0.05 | 23.04 | 0.70 | 4.83 | 1.65 | 0.94 | 0.75 | 35.33 | 0.02 | 19.60 | 0.05 | 0.48 | 99.96 |

| Sample | Wt. % | | | | | | | | | | | | | | | |
|----------|-------|------|------|-------|-------|------|------|------|------|------|-------|------|-------|------|------|--------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB-021 | 7.78 | 0.04 | 5.44 | 0.05 | 21.16 | 0.84 | 4.53 | 1.12 | 0.88 | 0.58 | 40.63 | 0.02 | 14.70 | 0.05 | 0.27 | 98.10 |
| SRCB-022 | 6.80 | 0.07 | 5.10 | 0.04 | 24.50 | 0.67 | 4.23 | 1.91 | 0.77 | 0.71 | 32.74 | 0.02 | 19.41 | 0.06 | 0.69 | 97.71 |
| SRCB-024 | 4.38 | 0.08 | 1.03 | 0.04 | 25.85 | 0.80 | 0.69 | 1.66 | 0.69 | 0.32 | 53.50 | 0.01 | 9.30 | 0.06 | 0.76 | 99.18 |
| SRCB-025 | 7.17 | 0.09 | 5.78 | 0.05 | 21.61 | 0.73 | 4.84 | 1.52 | 0.92 | 0.69 | 37.51 | 0.02 | 16.16 | 0.05 | 0.58 | 97.73 |
| SRCB-026 | 6.90 | 0.06 | 4.93 | 0.04 | 22.10 | 0.75 | 4.24 | 1.49 | 0.96 | 0.63 | 37.74 | 0.02 | 16.57 | 0.05 | 0.49 | 96.97 |
| SRCB-027 | 6.82 | 0.06 | 5.23 | 0.05 | 23.94 | 0.72 | 4.63 | 1.50 | 0.73 | 0.72 | 33.90 | 0.02 | 18.71 | 0.05 | 0.46 | 97.54 |
| SRCB-028 | 6.69 | 0.08 | 5.47 | 0.05 | 22.75 | 0.74 | 4.81 | 1.55 | 0.80 | 0.76 | 36.76 | 0.02 | 18.08 | 0.05 | 0.53 | 99.15 |
| SRCB-029 | 6.86 | 0.09 | 5.69 | 0.05 | 24.30 | 0.76 | 4.97 | 1.78 | 0.82 | 0.83 | 36.00 | 0.02 | 18.61 | 0.06 | 0.70 | 101.55 |
| SRCB-030 | 6.66 | 0.09 | 5.54 | 0.05 | 22.33 | 0.79 | 4.86 | 1.70 | 0.92 | 0.76 | 39.11 | 0.02 | 17.68 | 0.05 | 0.70 | 101.27 |
| SRCB-031 | 6.82 | 0.05 | 5.22 | 0.05 | 22.52 | 0.78 | 4.45 | 1.67 | 0.82 | 0.69 | 37.22 | 0.02 | 18.46 | 0.05 | 0.57 | 99.39 |

Daniel Chevalier, MASc
Manager, Minerals Engineering Centre

| Sample | Wt. % (Measured) | | | | | | | | | | | | | | |
|--------------------|--------------------------------|------|------|--------------------------------|--------------------------------|------------------|------|------|-------------------|-------------------------------|------------------|-------|------------------|-------------------------------|------------------|
| | Al ₂ O ₃ | BaO | CaO | Cr ₂ O ₃ | Fe ₂ O ₃ | K ₂ O | MgO | MnO | Na ₂ O | P ₂ O ₅ | SiO ₂ | SrO | TiO ₂ | V ₂ O ₅ | ZrO ₂ |
| SY-4 | 20.77 | 0.04 | 8.04 | <0.01 | 6.24 | 1.62 | 0.54 | 0.11 | 7.09 | 0.13 | 49.93 | 0.14 | 0.30 | 0.00 | 0.06 |
| SCH-1
(Element) | 0.53 | 0.03 | 0.02 | <0.01 | 58.78 | 0.01 | 0.02 | 0.73 | 0.06 | <0.01 | 3.64 | <0.01 | 0.03 | <0.01 | 0.01 |
| FER-1 | 0.49 | 0.12 | 3.14 | <0.01 | 53.18 | <0.01 | 0.28 | 0.22 | 0.05 | 2.28 | 16.35 | 0.01 | 0.03 | 0.01 | 0.01 |

| Sample | Wt. % (Expected) | | | | | | | | | | | | | | |
|--------------------|--------------------------------|------|------|--------------------------------|--------------------------------|------------------|-------|------|-------------------|-------------------------------|------------------|------|------------------|-------------------------------|------------------|
| | Al ₂ O ₃ | BaO | CaO | Cr ₂ O ₃ | Fe ₂ O ₃ | K ₂ O | MgO | MnO | Na ₂ O | P ₂ O ₅ | SiO ₂ | SrO | TiO ₂ | V ₂ O ₅ | ZrO ₂ |
| SY-4 | 20.69 | 0.04 | 8.05 | 0.002 | 6.21 | 1.66 | 0.54 | 0.11 | 7.10 | 0.13 | 49.90 | 0.14 | 0.29 | 0.001 | 0.07 |
| SCH-1
(Element) | 0.51 | | 0.03 | | 60.73 | 0.03 | 0.02 | 0.78 | 0.02 | 0.05 | 3.78 | | 0.03 | | |
| FER-1 | 0.52 | | 3.29 | | 53.02
(Fe
Tot.) | 0.02 | 0.297 | 0.22 | 0.02 | 2.39 | 16.95 | | 0.03 | | |

22-Dec-11

Maritime Titanium
PO Box 351
Hantsport, NS
B0P 1P0
Attention: Elwood Dillman

Re: results of major oxide analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | Wt. % | | | | | | | | | | | | | | | |
|----------|-------|-------|------|-------|-------|------|------|-------|------|-------|-------|-------|-------|-------|------|--------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB-032 | 6.95 | 0.08 | 5.06 | 0.05 | 22.98 | 0.74 | 4.33 | 1.75 | 0.90 | 0.77 | 36.91 | 0.02 | 18.81 | 0.06 | 0.69 | 100.10 |
| SRCB-033 | 7.03 | 0.08 | 4.14 | 0.04 | 29.38 | 0.59 | 3.11 | 2.65 | 0.63 | 0.63 | 30.30 | 0.02 | 20.25 | 0.07 | 0.74 | 99.65 |
| SRCB-034 | 7.41 | 0.05 | 5.02 | 0.04 | 23.14 | 0.72 | 4.14 | 1.69 | 1.01 | 0.71 | 36.62 | 0.02 | 18.95 | 0.06 | 0.41 | 99.99 |
| SRCB-035 | 6.82 | 0.08 | 4.91 | 0.05 | 25.14 | 0.65 | 4.11 | 2.03 | 0.77 | 0.77 | 33.59 | 0.02 | 19.88 | 0.06 | 0.87 | 99.74 |
| SRCB-036 | 7.45 | 0.09 | 4.82 | 0.04 | 21.71 | 0.87 | 4.02 | 1.56 | 1.00 | 0.72 | 39.46 | 0.02 | 17.55 | 0.06 | 0.54 | 99.92 |
| SRCB-037 | 7.08 | 0.07 | 4.66 | 0.04 | 25.67 | 0.67 | 3.81 | 2.14 | 0.87 | 0.70 | 33.69 | 0.02 | 19.92 | 0.06 | 0.66 | 100.05 |
| SRCB-038 | 7.01 | 0.05 | 5.12 | 0.04 | 22.25 | 0.71 | 4.39 | 1.63 | 0.98 | 0.76 | 36.30 | 0.02 | 20.14 | 0.06 | 0.36 | 99.81 |
| SRCB-039 | 7.24 | 0.05 | 4.77 | 0.04 | 23.44 | 0.82 | 3.84 | 1.52 | 0.88 | 0.69 | 37.44 | 0.02 | 18.57 | 0.06 | 0.38 | 99.74 |
| SRCB-040 | 7.08 | 0.06 | 5.13 | 0.05 | 21.08 | 0.73 | 4.47 | 1.67 | 0.78 | 0.77 | 39.72 | 0.02 | 17.74 | 0.06 | 0.60 | 99.96 |
| SRCB-041 | 6.72 | 0.07 | 4.94 | 0.05 | 24.17 | 0.69 | 4.25 | 1.81 | 0.73 | 0.76 | 35.54 | 0.02 | 19.14 | 0.06 | 0.77 | 99.72 |
| SRCB-042 | 6.87 | 0.08 | 5.06 | 0.05 | 23.91 | 0.68 | 4.31 | 1.99 | 0.76 | 0.80 | 35.97 | 0.02 | 18.63 | 0.07 | 0.90 | 100.10 |
| SRCB-043 | 7.28 | 0.40 | 5.01 | 0.05 | 23.47 | 0.80 | 4.34 | 1.62 | 1.04 | 0.71 | 36.06 | 0.03 | 18.78 | 0.06 | 0.54 | 100.19 |
| SRCB-044 | 7.01 | 0.09 | 5.25 | 0.05 | 21.62 | 0.74 | 4.64 | 1.77 | 0.81 | 0.84 | 39.05 | 0.02 | 17.60 | 0.06 | 0.80 | 100.36 |
| SRCB-045 | 7.21 | 0.09 | 5.07 | 0.05 | 23.51 | 0.71 | 4.23 | 1.84 | 0.84 | 0.75 | 35.88 | 0.02 | 19.25 | 0.06 | 0.56 | 100.07 |
| SRCB-046 | 6.83 | 0.06 | 4.70 | 0.04 | 22.97 | 0.68 | 3.91 | 1.97 | 0.89 | 0.77 | 36.81 | 0.02 | 19.12 | 0.06 | 0.65 | 99.51 |
| SRCB-047 | 7.13 | 0.07 | 4.57 | 0.04 | 25.03 | 0.68 | 3.69 | 2.13 | 0.95 | 0.69 | 34.61 | 0.02 | 19.86 | 0.06 | 0.53 | 100.07 |
| SRCB-048 | 6.84 | 0.06 | 4.67 | 0.04 | 23.09 | 0.72 | 3.91 | 1.85 | 0.98 | 0.75 | 37.50 | 0.02 | 19.26 | 0.06 | 0.57 | 100.33 |
| SRCB-049 | 6.97 | 0.07 | 5.04 | 0.05 | 24.00 | 0.65 | 4.17 | 1.92 | 0.97 | 0.77 | 35.15 | 0.02 | 19.63 | 0.06 | 0.61 | 100.07 |
| SRCB-050 | 7.11 | 0.07 | 5.19 | 0.05 | 22.13 | 0.67 | 4.47 | 1.88 | 0.94 | 0.83 | 37.08 | 0.02 | 19.02 | 0.06 | 0.60 | 100.12 |
| SRCB-051 | 0.69 | <0.01 | 0.06 | <0.01 | 0.13 | 0.17 | 0.05 | <0.01 | 0.02 | <0.05 | 98.14 | <0.01 | 0.10 | <0.01 | 0.02 | 99.37 |

| Sample | Wt. % | | | | | | | | | | | | | | | |
|----------|-------|------|------|-------|-------|------|------|------|------|------|-------|------|-------|------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB-052 | 4.61 | 0.11 | 1.50 | 0.05 | 40.33 | 0.37 | 0.90 | 3.20 | 0.34 | 0.51 | 30.51 | 0.01 | 13.76 | 0.10 | 2.91 | 99.20 |

Daniel Chevalier, MASc
 Manager, Minerals Engineering Centre

| Sample | Wt. % (Measured) | | | | | | | | | | | | | | |
|--------|------------------|------|------|-------|-------|-------|------|------|-------|------|-------|-------|-------|-------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
| SY-4 | 20.68 | 0.04 | 8.06 | <0.05 | 6.35 | 1.63 | 0.54 | 0.11 | 7.05 | 0.15 | 49.72 | 0.14 | 0.35 | <0.05 | 0.10 |
| FER-1 | 0.57 | 0.11 | 3.38 | <0.05 | 52.94 | <0.05 | 0.30 | 0.21 | <0.05 | 2.27 | 16.74 | <0.05 | <0.05 | <0.05 | <0.05 |

| Sample | Wt. % (Expected) | | | | | | | | | | | | | | |
|--------|------------------|------|------|-------|-----------------------|------|-------|------|------|------|-------|------|------|-------|------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
| SY-4 | 20.69 | 0.04 | 8.05 | 0.002 | 6.21 | 1.66 | 0.54 | 0.11 | 7.10 | 0.13 | 49.90 | 0.14 | 0.29 | 0.001 | 0.07 |
| FER-1 | 0.52 | | 3.29 | | 53.02
(Fe
Tot.) | 0.02 | 0.297 | 0.22 | 0.02 | 2.39 | 16.95 | | 0.03 | | |

10-Jan-12

Maritime Titanium
PO Box 351
Hantsport, NS
B0P 1P0
Attention: Elwood Dillman

Re: results of major oxide analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | Wt. % | | | | | | | | | | | | | | | |
|---------------|-------|------|------|-------|-------|------|------|------|------|------|-------|------|-------|------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB-053 | 6.61 | 0.06 | 3.65 | 0.04 | 21.12 | 0.65 | 3.41 | 1.61 | 0.67 | 0.69 | 42.83 | 0.02 | 17.15 | 0.05 | 0.45 | 99.00 |
| SRCB-054 | 6.47 | 0.05 | 4.26 | 0.05 | 23.61 | 0.50 | 4.13 | 1.87 | 0.74 | 0.80 | 36.04 | 0.02 | 20.43 | 0.06 | 0.52 | 99.54 |
| SRCB-055 | 6.50 | 0.05 | 4.43 | 0.05 | 23.67 | 0.49 | 4.21 | 1.82 | 0.73 | 0.86 | 34.41 | 0.02 | 21.42 | 0.06 | 0.45 | 99.17 |
| SRCB-056 | 6.71 | 0.05 | 4.39 | 0.05 | 24.36 | 0.50 | 4.14 | 1.67 | 0.77 | 0.79 | 34.08 | 0.02 | 20.92 | 0.06 | 0.37 | 98.87 |
| SRCB-057 | 6.62 | 0.06 | 4.38 | 0.05 | 25.56 | 0.50 | 4.10 | 1.95 | 0.69 | 0.74 | 33.56 | 0.02 | 20.64 | 0.06 | 0.60 | 99.53 |
| SRCB-058 | 6.74 | 0.05 | 4.34 | 0.05 | 24.14 | 0.54 | 4.18 | 1.67 | 0.76 | 0.79 | 34.36 | 0.02 | 20.78 | 0.06 | 0.39 | 98.86 |
| SRCB-059 | 6.85 | 0.05 | 4.40 | 0.05 | 24.55 | 0.55 | 4.18 | 1.68 | 0.80 | 0.75 | 34.85 | 0.02 | 20.70 | 0.06 | 0.41 | 99.89 |
| SRCB-060 | 6.53 | 0.05 | 4.16 | 0.04 | 27.06 | 0.50 | 3.82 | 1.91 | 0.69 | 0.74 | 32.19 | 0.02 | 21.30 | 0.06 | 0.42 | 99.50 |
| SRCB-060 Dup. | 6.54 | 0.05 | 4.10 | 0.04 | 27.03 | 0.49 | 3.74 | 1.90 | 0.69 | 0.78 | 32.13 | 0.02 | 21.24 | 0.06 | 0.42 | 99.24 |
| SRCB-061 | 6.58 | 0.05 | 4.07 | 0.04 | 25.38 | 0.52 | 3.89 | 1.79 | 0.66 | 0.73 | 35.01 | 0.02 | 20.66 | 0.06 | 0.42 | 99.87 |
| SRCB-062 | 6.31 | 0.05 | 4.14 | 0.05 | 26.29 | 0.46 | 4.02 | 1.95 | 0.64 | 0.80 | 32.49 | 0.02 | 22.05 | 0.06 | 0.47 | 99.81 |
| SRCB-063 | 13.17 | 0.10 | 2.80 | <0.01 | 3.93 | 1.75 | 0.71 | 0.28 | 2.61 | 0.67 | 69.69 | 0.04 | 3.33 | 0.01 | 0.53 | 99.63 |
| SRCB-064 | 6.86 | 0.05 | 4.52 | 0.05 | 26.50 | 0.51 | 4.04 | 1.81 | 0.84 | 0.73 | 33.80 | 0.02 | 19.44 | 0.06 | 0.59 | 99.82 |
| SRCB-065 | 7.92 | 0.04 | 5.22 | 0.04 | 26.61 | 0.53 | 4.49 | 1.49 | 0.78 | 0.65 | 34.37 | 0.03 | 16.76 | 0.07 | 0.23 | 99.23 |
| SRCB-066 | 7.21 | 0.04 | 4.68 | 0.04 | 26.76 | 0.49 | 4.03 | 1.73 | 0.72 | 0.74 | 33.48 | 0.03 | 19.32 | 0.06 | 0.24 | 99.58 |
| SRCB-067 | 6.56 | 0.05 | 4.25 | 0.04 | 26.53 | 0.47 | 3.87 | 1.96 | 0.66 | 0.73 | 32.02 | 0.02 | 21.30 | 0.06 | 0.49 | 99.01 |
| SRCB-068 | 7.98 | 0.04 | 5.70 | 0.04 | 23.07 | 0.57 | 5.12 | 1.37 | 1.01 | 0.64 | 37.28 | 0.02 | 16.64 | 0.07 | 0.30 | 99.86 |
| SRCB-069 | 6.52 | 0.06 | 4.27 | 0.05 | 24.58 | 0.53 | 4.28 | 1.62 | 0.63 | 0.85 | 35.74 | 0.02 | 19.65 | 0.06 | 0.67 | 99.53 |
| SRCB-070 | 6.55 | 0.06 | 4.79 | 0.05 | 22.76 | 0.51 | 4.91 | 1.58 | 0.75 | 0.87 | 36.30 | 0.02 | 19.91 | 0.06 | 0.46 | 99.56 |

| Sample | Wt. % | | | | | | | | | | | | | | | |
|-----------|-------|-------|------|-------|-------|------|------|------|-------|------|-------|-------|-------|-------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB-071 | 6.45 | 0.05 | 3.80 | 0.04 | 24.35 | 0.55 | 3.67 | 1.83 | 0.72 | 0.75 | 36.87 | 0.02 | 19.99 | 0.06 | 0.53 | 99.69 |
| SRCB-072 | 6.46 | 0.06 | 4.55 | 0.06 | 22.87 | 0.49 | 4.68 | 1.64 | 0.69 | 0.74 | 36.62 | 0.02 | 19.57 | 0.06 | 0.57 | 99.06 |
| SRCB-073 | 6.17 | 0.07 | 4.28 | 0.05 | 23.24 | 0.51 | 4.27 | 1.86 | 0.66 | 0.82 | 35.99 | 0.02 | 20.57 | 0.06 | 0.91 | 99.46 |
| SRCB-074 | 6.23 | 0.06 | 3.93 | 0.05 | 25.02 | 0.48 | 3.85 | 2.15 | 0.66 | 0.80 | 34.06 | 0.02 | 20.85 | 0.07 | 0.94 | 99.16 |
| SRCB-075 | 9.13 | 0.04 | 6.24 | 0.04 | 25.40 | 0.58 | 4.97 | 1.21 | 0.94 | 0.53 | 37.68 | 0.03 | 12.05 | 0.07 | 0.15 | 99.07 |
| SRCB-076 | 7.50 | 0.04 | 5.11 | 0.04 | 25.26 | 0.54 | 4.38 | 1.52 | 0.93 | 0.68 | 35.23 | 0.03 | 17.47 | 0.07 | 0.23 | 99.03 |
| SRCB-077 | 6.77 | 0.06 | 4.18 | 0.04 | 23.59 | 0.62 | 3.83 | 1.52 | 0.84 | 0.65 | 39.32 | 0.02 | 17.60 | 0.06 | 0.36 | 99.46 |
| SRCB-078A | 7.10 | 0.04 | 4.64 | 0.04 | 24.96 | 0.53 | 4.14 | 1.60 | 0.90 | 0.70 | 34.89 | 0.02 | 19.61 | 0.06 | 0.19 | 99.43 |
| SRCB-078B | 6.50 | 0.05 | 4.36 | 0.04 | 24.52 | 0.52 | 4.05 | 1.84 | 0.71 | 0.75 | 34.02 | 0.02 | 21.99 | 0.06 | 0.42 | 99.84 |
| SRCB-079 | 0.68 | <0.01 | 0.06 | <0.01 | 0.20 | 0.11 | 0.06 | 0.01 | <0.01 | 0.03 | 98.53 | <0.01 | 0.18 | <0.01 | 0.02 | 99.88 |
| SRCB-080 | 4.17 | 0.08 | 0.84 | 0.04 | 25.96 | 0.60 | 0.65 | 1.60 | 0.56 | 0.38 | 54.26 | 0.01 | 9.67 | 0.06 | 0.83 | 99.70 |
| SRCB-081 | 5.67 | 0.09 | 3.83 | 0.05 | 26.51 | 0.43 | 3.70 | 2.30 | 0.53 | 0.90 | 32.78 | 0.02 | 20.89 | 0.07 | 1.33 | 99.07 |
| SRCB-085 | 6.79 | 0.05 | 4.23 | 0.04 | 26.26 | 0.58 | 4.07 | 1.89 | 0.68 | 0.84 | 33.30 | 0.02 | 19.87 | 0.07 | 0.77 | 99.48 |
| SRCB-086 | 5.97 | 0.06 | 3.77 | 0.05 | 26.41 | 0.45 | 3.66 | 2.33 | 0.64 | 0.84 | 32.44 | 0.02 | 21.51 | 0.06 | 1.00 | 99.21 |
| SRCB-087 | 6.08 | 0.06 | 4.31 | 0.05 | 23.68 | 0.47 | 4.34 | 1.92 | 0.62 | 0.84 | 35.86 | 0.02 | 20.85 | 0.06 | 0.68 | 99.83 |
| SRCB-088 | 5.83 | 0.06 | 3.34 | 0.04 | 19.20 | 0.61 | 3.18 | 1.64 | 0.72 | 0.73 | 46.03 | 0.01 | 16.88 | 0.05 | 0.67 | 99.00 |
| SRCB-089 | 6.48 | 0.07 | 3.82 | 0.04 | 23.27 | 0.59 | 3.79 | 1.83 | 0.68 | 0.88 | 38.56 | 0.02 | 18.98 | 0.06 | 0.77 | 99.84 |
| SRCB-090 | 5.88 | 0.08 | 4.05 | 0.05 | 26.34 | 0.42 | 3.93 | 2.40 | 0.59 | 0.89 | 32.35 | 0.02 | 21.11 | 0.07 | 1.23 | 99.42 |
| SRCB-091 | 5.86 | 0.08 | 4.03 | 0.05 | 26.18 | 0.42 | 3.90 | 2.39 | 0.59 | 0.88 | 32.24 | 0.02 | 21.08 | 0.07 | 1.24 | 99.03 |
| SRCB-092 | 6.17 | 0.06 | 4.23 | 0.05 | 26.50 | 0.44 | 4.16 | 2.19 | 0.61 | 0.90 | 32.34 | 0.02 | 21.12 | 0.07 | 1.04 | 99.90 |
| SRCB-093 | 6.08 | 0.08 | 3.70 | 0.05 | 27.89 | 0.49 | 3.60 | 2.11 | 0.51 | 0.72 | 32.28 | 0.02 | 20.67 | 0.07 | 0.96 | 99.22 |
| SRCB-094 | 6.04 | 0.08 | 4.29 | 0.05 | 24.68 | 0.47 | 4.24 | 2.07 | 0.56 | 0.94 | 34.26 | 0.02 | 20.62 | 0.07 | 0.98 | 99.35 |
| SRCB-095 | 6.11 | 0.07 | 3.78 | 0.05 | 27.13 | 0.49 | 3.70 | 2.09 | 0.54 | 0.97 | 32.59 | 0.02 | 20.78 | 0.07 | 1.03 | 99.41 |
| SRCB-096 | 6.15 | 0.07 | 4.52 | 0.05 | 22.58 | 0.53 | 4.52 | 1.74 | 0.60 | 0.86 | 36.16 | 0.02 | 20.75 | 0.06 | 0.64 | 99.24 |
| SRCB-097 | 6.27 | 0.07 | 5.09 | 0.05 | 20.92 | 0.54 | 5.33 | 1.49 | 0.67 | 1.01 | 37.42 | 0.02 | 19.77 | 0.06 | 0.60 | 99.31 |
| SRCB-098 | 6.38 | 0.06 | 4.12 | 0.05 | 26.36 | 0.49 | 4.05 | 1.95 | 0.52 | 0.82 | 32.53 | 0.02 | 21.43 | 0.07 | 0.72 | 99.57 |
| SRCB-099 | 5.94 | 0.09 | 4.26 | 0.05 | 25.45 | 0.47 | 4.20 | 2.10 | 0.51 | 0.94 | 32.76 | 0.02 | 21.32 | 0.07 | 1.03 | 99.21 |
| SRCB-100 | 6.49 | 0.07 | 4.15 | 0.05 | 26.01 | 0.52 | 4.11 | 1.87 | 0.54 | 0.91 | 32.76 | 0.02 | 20.84 | 0.07 | 0.70 | 99.10 |
| SRCB-101 | 5.89 | 0.10 | 4.38 | 0.05 | 26.34 | 0.43 | 4.31 | 2.21 | 0.50 | 1.05 | 31.79 | 0.02 | 21.14 | 0.07 | 1.22 | 99.50 |
| SRCB-102 | 6.28 | 0.06 | 4.22 | 0.05 | 25.29 | 0.49 | 4.14 | 1.97 | 0.51 | 0.93 | 33.06 | 0.02 | 21.33 | 0.06 | 0.81 | 99.23 |
| SRCB-103 | 6.45 | 0.07 | 5.16 | 0.05 | 20.67 | 0.58 | 5.37 | 1.46 | 0.64 | 0.95 | 38.26 | 0.02 | 19.46 | 0.06 | 0.60 | 99.81 |
| SRCB-104 | 0.70 | <0.01 | 0.07 | <0.01 | 0.24 | 0.11 | 0.07 | 0.01 | 0.01 | 0.03 | 98.02 | <0.01 | 0.23 | <0.01 | 0.03 | 99.52 |
| SRCB-105 | 4.29 | 0.10 | 1.27 | 0.05 | 40.33 | 0.27 | 0.90 | 3.30 | 0.26 | 0.57 | 29.64 | 0.01 | 14.93 | 0.10 | 3.00 | 99.03 |

| Sample | Wt. % | | | | | | | | | | | | | | | |
|----------|-------|------|------|-------|-------|------|------|------|------|------|-------|------|-------|------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB-106 | 6.10 | 0.07 | 3.53 | 0.04 | 21.76 | 0.59 | 3.52 | 1.94 | 0.63 | 0.67 | 41.74 | 0.01 | 18.05 | 0.06 | 0.82 | 99.53 |
| SRCB-107 | 5.99 | 0.09 | 4.28 | 0.05 | 24.58 | 0.47 | 4.21 | 2.20 | 0.65 | 0.95 | 33.69 | 0.02 | 20.83 | 0.07 | 0.95 | 99.05 |

Daniel Chevalier, MASc
 Manager, Minerals Engineering Centre

| Sample | Wt. % (Measured) | | | | | | | | | | | | | | |
|------------------|------------------|-------|-------|-------|-------|-------|------|------|-------|------|-------|-------|-------|-------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
| SY-4 | 20.80 | 0.04 | 7.15 | <0.05 | 6.40 | 1.32 | 0.54 | 0.11 | 6.30 | 0.10 | 51.88 | 0.13 | 0.32 | <0.05 | 0.08 |
| FER-1 | 0.52 | 0.11 | 2.99 | <0.05 | 54.64 | <0.05 | 0.30 | 0.23 | <0.05 | 2.27 | 17.67 | <0.05 | <0.05 | <0.05 | <0.05 |
| BR In-house Std. | 1.96 | <0.05 | 19.77 | <0.05 | 18.57 | <0.05 | 7.55 | 0.25 | 0.88 | 6.59 | 43.09 | <0.05 | 0.43 | 0.08 | <0.05 |

| Sample | Wt. % (Expected) | | | | | | | | | | | | | | |
|------------------|------------------|-------|-------|-------|--------------------|------|-------|------|------|------|-------|-------|------|-------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
| SY-4 | 20.69 | 0.04 | 8.05 | 0.002 | 6.21 | 1.66 | 0.54 | 0.11 | 7.10 | 0.13 | 49.90 | 0.14 | 0.29 | 0.001 | 0.07 |
| FER-1 | 0.52 | | 3.29 | | 53.02
(Fe Tot.) | 0.02 | 0.297 | 0.22 | 0.02 | 2.39 | 16.95 | | 0.03 | | |
| BR In-house Std. | 1.96 | 0.002 | 22.43 | 0.004 | 17.95 | 0.03 | 7.30 | 0.24 | 1.02 | 6.16 | 41.55 | 0.019 | 0.37 | 0.076 | 0.011 |

21-Feb-12

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

Re: results of major oxide analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | Wt. % | | | | | | | | | | | | | | | |
|-----------|--------------------------------|------|------|--------------------------------|--------------------------------|------------------|------|------|-------------------|-------------------------------|------------------|------|------------------|-------------------------------|------------------|-------|
| | Al ₂ O ₃ | BaO | CaO | Cr ₂ O ₃ | Fe ₂ O ₃ | K ₂ O | MgO | MnO | Na ₂ O | P ₂ O ₅ | SiO ₂ | SrO | TiO ₂ | V ₂ O ₅ | ZrO ₂ | Total |
| SRCB -082 | 6.15 | 0.06 | 5.09 | 0.03 | 22.41 | 0.65 | 4.36 | 1.82 | 0.82 | 0.73 | 37.48 | 0.02 | 19.10 | 0.06 | 0.65 | 99.43 |
| SRCB -083 | 6.15 | 0.06 | 5.15 | 0.04 | 24.37 | 0.60 | 4.45 | 1.96 | 0.85 | 0.73 | 33.45 | 0.02 | 20.75 | 0.06 | 0.69 | 99.33 |
| SRCB -084 | 6.10 | 0.07 | 5.07 | 0.04 | 21.49 | 0.68 | 4.40 | 1.80 | 0.91 | 0.73 | 39.43 | 0.02 | 17.49 | 0.06 | 0.94 | 99.22 |
| SRCB -263 | 4.39 | 0.08 | 1.02 | 0.03 | 25.23 | 0.80 | 0.66 | 1.59 | 0.71 | 0.31 | 54.21 | 0.01 | 9.25 | 0.06 | 0.87 | 99.23 |
| SRCB -264 | 5.86 | 0.08 | 4.57 | 0.05 | 29.70 | 0.51 | 3.74 | 2.45 | 0.50 | 0.81 | 30.00 | 0.02 | 18.52 | 0.08 | 2.16 | 99.04 |
| SRCB -265 | 6.21 | 0.08 | 4.89 | 0.04 | 25.85 | 0.60 | 3.92 | 2.14 | 0.57 | 0.81 | 34.58 | 0.02 | 18.10 | 0.07 | 1.49 | 99.38 |
| SRCB -266 | 6.22 | 0.07 | 5.33 | 0.04 | 25.90 | 0.55 | 4.41 | 2.19 | 0.57 | 0.82 | 32.13 | 0.02 | 19.75 | 0.07 | 1.20 | 99.26 |
| SRCB -267 | 6.63 | 0.07 | 5.53 | 0.04 | 23.32 | 0.68 | 4.50 | 1.95 | 0.59 | 0.83 | 34.92 | 0.02 | 19.08 | 0.06 | 0.88 | 99.11 |
| SRCB -268 | 6.45 | 0.06 | 5.38 | 0.04 | 24.19 | 0.69 | 4.35 | 1.99 | 0.61 | 0.78 | 33.70 | 0.02 | 19.84 | 0.07 | 0.87 | 99.04 |
| SRCB -269 | 6.64 | 0.06 | 5.17 | 0.04 | 24.23 | 0.64 | 4.20 | 1.90 | 0.80 | 0.75 | 33.02 | 0.02 | 21.14 | 0.06 | 0.58 | 99.26 |
| SRCB -270 | 6.51 | 0.06 | 5.28 | 0.04 | 24.19 | 0.64 | 4.28 | 1.95 | 0.80 | 0.75 | 33.14 | 0.02 | 21.04 | 0.06 | 0.60 | 99.35 |
| SRCB -271 | 6.62 | 0.06 | 5.08 | 0.03 | 23.16 | 0.70 | 4.08 | 1.81 | 0.89 | 0.73 | 35.56 | 0.02 | 20.07 | 0.06 | 0.57 | 99.44 |
| SRCB -272 | 6.94 | 0.06 | 5.27 | 0.04 | 23.62 | 0.72 | 4.25 | 1.72 | 0.84 | 0.69 | 34.78 | 0.02 | 19.67 | 0.06 | 0.49 | 99.15 |
| SRCB -273 | 6.99 | 0.06 | 5.26 | 0.04 | 22.31 | 0.83 | 4.14 | 1.62 | 0.97 | 0.65 | 38.02 | 0.02 | 17.98 | 0.06 | 0.52 | 99.47 |
| SRCB -274 | 6.53 | 0.08 | 5.18 | 0.04 | 25.11 | 0.66 | 4.12 | 1.98 | 0.83 | 0.75 | 32.89 | 0.02 | 19.88 | 0.07 | 0.89 | 99.02 |
| SRCB -275 | 6.52 | 0.07 | 5.39 | 0.04 | 21.44 | 0.74 | 4.52 | 1.66 | 0.92 | 0.72 | 38.90 | 0.02 | 17.67 | 0.06 | 0.79 | 99.45 |
| SRCB -276 | 6.64 | 0.08 | 5.33 | 0.04 | 22.27 | 0.73 | 4.39 | 1.71 | 0.80 | 0.73 | 37.41 | 0.02 | 18.28 | 0.06 | 0.75 | 99.23 |
| SRCB -277 | 6.75 | 0.08 | 5.57 | 0.04 | 21.85 | 0.74 | 4.68 | 1.67 | 0.89 | 0.76 | 37.37 | 0.02 | 18.20 | 0.06 | 0.73 | 99.41 |
| SRCB -278 | 6.88 | 0.06 | 5.16 | 0.04 | 21.38 | 0.82 | 4.21 | 1.56 | 0.87 | 0.71 | 38.90 | 0.02 | 17.92 | 0.06 | 0.58 | 99.16 |

| Sample | Wt. % | | | | | | | | | | | | | | | |
|---------------|-------|-------|------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB -279 | 6.96 | 0.06 | 5.49 | 0.04 | 23.05 | 0.72 | 4.39 | 1.72 | 0.92 | 0.67 | 35.50 | 0.02 | 18.95 | 0.06 | 0.59 | 99.16 |
| SRCB -280 | 6.28 | 0.08 | 5.25 | 0.04 | 22.81 | 0.62 | 4.16 | 2.03 | 0.58 | 0.84 | 37.23 | 0.02 | 18.22 | 0.06 | 1.02 | 99.23 |
| SRCB -280 Dup | 6.26 | 0.08 | 5.23 | 0.04 | 22.79 | 0.63 | 4.12 | 2.03 | 0.58 | 0.82 | 37.39 | 0.02 | 18.12 | 0.06 | 1.01 | 99.18 |
| SRCB -281 | 6.28 | 0.09 | 5.94 | 0.04 | 24.40 | 0.55 | 4.81 | 2.18 | 0.53 | 0.89 | 33.12 | 0.02 | 18.95 | 0.07 | 1.31 | 99.17 |
| SRCB -282 | 6.08 | 0.08 | 5.15 | 0.04 | 26.48 | 0.50 | 4.13 | 2.34 | 0.47 | 0.83 | 31.53 | 0.02 | 20.20 | 0.07 | 1.23 | 99.14 |
| SRCB -283 | 6.00 | 0.09 | 5.52 | 0.04 | 26.24 | 0.48 | 4.44 | 2.55 | 0.51 | 0.87 | 31.39 | 0.02 | 19.78 | 0.07 | 1.51 | 99.53 |
| SRCB -284 | 6.05 | 0.08 | 5.34 | 0.04 | 25.12 | 0.56 | 4.34 | 2.35 | 0.58 | 0.86 | 32.59 | 0.02 | 20.15 | 0.07 | 1.10 | 99.26 |
| SRCB -285 | 6.40 | 0.08 | 5.43 | 0.04 | 24.51 | 0.59 | 4.50 | 2.01 | 0.80 | 0.80 | 32.84 | 0.02 | 20.40 | 0.06 | 0.84 | 99.31 |
| SRCB -286 | 6.47 | 0.08 | 5.18 | 0.04 | 24.33 | 0.62 | 4.23 | 2.02 | 0.85 | 0.75 | 33.85 | 0.02 | 19.94 | 0.06 | 0.82 | 99.27 |
| SRCB -287 | 6.74 | 0.07 | 5.42 | 0.04 | 24.04 | 0.66 | 4.37 | 1.86 | 0.90 | 0.76 | 33.71 | 0.02 | 19.89 | 0.06 | 0.70 | 99.23 |
| SRCB -288 | 6.59 | 0.06 | 5.18 | 0.04 | 24.34 | 0.63 | 4.06 | 2.02 | 0.74 | 0.78 | 32.75 | 0.02 | 21.31 | 0.06 | 0.62 | 99.19 |
| SRCB -289 | 6.62 | 0.05 | 5.11 | 0.03 | 25.93 | 0.61 | 3.85 | 1.95 | 0.86 | 0.70 | 31.42 | 0.02 | 21.41 | 0.06 | 0.56 | 99.18 |
| SRCB -290 | 6.45 | 0.07 | 5.08 | 0.04 | 24.19 | 0.64 | 4.08 | 2.07 | 0.74 | 0.73 | 33.57 | 0.02 | 20.63 | 0.06 | 0.78 | 99.17 |
| SRCB -291 | 6.65 | 0.07 | 5.37 | 0.04 | 23.73 | 0.65 | 4.27 | 1.90 | 0.80 | 0.75 | 34.58 | 0.02 | 19.69 | 0.06 | 0.67 | 99.25 |
| SRCB -292 | 7.18 | 0.06 | 5.42 | 0.03 | 24.68 | 0.72 | 4.17 | 1.75 | 0.86 | 0.70 | 34.29 | 0.02 | 18.62 | 0.06 | 0.56 | 99.14 |
| SRCB -293 | 7.58 | 0.05 | 5.44 | 0.03 | 23.66 | 0.86 | 3.95 | 1.51 | 0.94 | 0.61 | 37.40 | 0.02 | 16.55 | 0.06 | 0.39 | 99.06 |
| SRCB -294 | 0.72 | <0.01 | 0.08 | <0.01 | 0.22 | 0.17 | 0.06 | 0.01 | 0.01 | 0.01 | 97.63 | <0.01 | 0.18 | <0.01 | 0.03 | 99.12 |
| SRCB -295 | 4.61 | 0.10 | 1.57 | 0.04 | 39.73 | 0.37 | 0.91 | 3.32 | 0.35 | 0.50 | 30.56 | 0.01 | 13.96 | 0.10 | 3.33 | 99.44 |
| SRCB -296 | 6.93 | 0.05 | 5.00 | 0.03 | 31.09 | 0.58 | 3.29 | 2.08 | 0.79 | 0.55 | 29.23 | 0.02 | 19.45 | 0.08 | 0.38 | 99.55 |
| SRCB -297 | 7.45 | 0.04 | 5.05 | 0.03 | 25.72 | 0.68 | 3.56 | 1.54 | 0.94 | 0.56 | 38.06 | 0.03 | 15.24 | 0.06 | 0.21 | 99.16 |
| SRCB -298 | 7.54 | 0.05 | 5.26 | 0.03 | 28.06 | 0.59 | 3.79 | 1.72 | 0.81 | 0.59 | 33.70 | 0.03 | 16.95 | 0.07 | 0.24 | 99.42 |
| SRCB -299 | 6.53 | 0.05 | 4.23 | 0.03 | 28.49 | 0.58 | 3.26 | 2.10 | 0.84 | 0.65 | 31.98 | 0.02 | 20.05 | 0.06 | 0.40 | 99.27 |
| SRCB -300 | 6.95 | 0.05 | 4.99 | 0.04 | 26.97 | 0.56 | 3.87 | 1.81 | 0.73 | 0.68 | 33.44 | 0.02 | 18.76 | 0.06 | 0.45 | 99.38 |
| SRCB -300 Dup | 6.91 | 0.05 | 5.04 | 0.04 | 26.93 | 0.58 | 3.85 | 1.80 | 0.75 | 0.68 | 33.46 | 0.02 | 18.71 | 0.06 | 0.43 | 99.31 |
| SRCB -301 | 6.70 | 0.06 | 5.01 | 0.04 | 24.67 | 0.63 | 4.18 | 1.74 | 0.81 | 0.75 | 35.05 | 0.02 | 19.06 | 0.06 | 0.53 | 99.31 |
| SRCB -302 | 6.87 | 0.06 | 5.13 | 0.04 | 25.32 | 0.57 | 4.26 | 1.86 | 0.74 | 0.73 | 34.41 | 0.02 | 18.66 | 0.06 | 0.63 | 99.37 |
| SRCB -303 | 6.83 | 0.04 | 5.15 | 0.03 | 24.32 | 0.55 | 4.01 | 1.71 | 0.92 | 0.74 | 34.25 | 0.02 | 20.18 | 0.06 | 0.36 | 99.18 |
| SRCB -304 | 6.90 | 0.05 | 5.27 | 0.03 | 24.29 | 0.58 | 4.28 | 1.66 | 0.88 | 0.73 | 35.18 | 0.02 | 18.88 | 0.06 | 0.44 | 99.24 |
| SRCB -305 | 6.98 | 0.05 | 4.95 | 0.03 | 24.94 | 0.65 | 3.90 | 1.72 | 0.94 | 0.68 | 35.30 | 0.02 | 18.94 | 0.06 | 0.38 | 99.54 |
| SRCB -306 | 10.15 | 0.05 | 7.09 | 0.03 | 23.47 | 0.73 | 4.68 | 1.01 | 1.39 | 0.52 | 40.30 | 0.04 | 9.46 | 0.06 | 0.17 | 99.15 |
| SRCB -307 | 9.79 | 0.04 | 6.92 | 0.03 | 22.53 | 0.77 | 4.66 | 0.99 | 1.35 | 0.50 | 41.49 | 0.04 | 9.99 | 0.06 | 0.17 | 99.31 |
| SRCB -308 | 8.20 | 0.07 | 4.94 | 0.03 | 23.27 | 0.81 | 2.90 | 1.59 | 1.08 | 0.58 | 39.08 | 0.03 | 16.10 | 0.05 | 0.72 | 99.44 |
| SRCB -309 | 10.22 | 0.04 | 7.52 | 0.03 | 22.94 | 0.81 | 4.77 | 0.95 | 1.46 | 0.45 | 41.41 | 0.04 | 8.26 | 0.06 | 0.14 | 99.10 |

| Sample | Wt. % | | | | | | | | | | | | | | | |
|---------------|-------|------|------|-------|-------|------|------|------|------|------|-------|------|-------|------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB -310 | 6.77 | 0.05 | 4.79 | 0.04 | 24.35 | 0.60 | 3.77 | 1.90 | 0.87 | 0.69 | 35.99 | 0.02 | 18.53 | 0.06 | 0.59 | 99.03 |
| SRCB -311 | 7.22 | 0.05 | 5.51 | 0.04 | 22.97 | 0.63 | 4.50 | 1.53 | 0.96 | 0.71 | 37.20 | 0.02 | 17.58 | 0.06 | 0.42 | 99.39 |
| SRCB -312 | 7.06 | 0.06 | 4.59 | 0.04 | 19.63 | 0.83 | 3.92 | 1.27 | 1.00 | 0.58 | 44.51 | 0.02 | 15.31 | 0.05 | 0.37 | 99.24 |
| SRCB -313 | 7.15 | 0.06 | 5.30 | 0.04 | 23.97 | 0.64 | 4.36 | 1.62 | 0.92 | 0.70 | 35.75 | 0.02 | 18.28 | 0.06 | 0.47 | 99.34 |
| SRCB -314 | 7.32 | 0.06 | 5.08 | 0.04 | 22.63 | 0.73 | 4.31 | 1.53 | 0.90 | 0.69 | 38.51 | 0.02 | 16.86 | 0.06 | 0.51 | 99.25 |
| SRCB -315 | 6.98 | 0.05 | 4.89 | 0.03 | 25.62 | 0.61 | 3.86 | 1.81 | 0.89 | 0.67 | 34.11 | 0.02 | 19.11 | 0.06 | 0.44 | 99.15 |
| SRCB -316 | 6.49 | 0.05 | 4.61 | 0.04 | 26.67 | 0.53 | 3.65 | 2.10 | 0.83 | 0.70 | 32.64 | 0.02 | 20.29 | 0.06 | 0.59 | 99.27 |
| SRCB -317 | 6.60 | 0.04 | 4.73 | 0.03 | 26.10 | 0.54 | 3.71 | 1.93 | 0.81 | 0.71 | 32.70 | 0.02 | 20.95 | 0.06 | 0.39 | 99.33 |
| SRCB -317 Dup | 6.63 | 0.04 | 4.76 | 0.03 | 25.95 | 0.57 | 3.75 | 1.93 | 0.82 | 0.71 | 32.70 | 0.02 | 20.95 | 0.06 | 0.40 | 99.33 |
| SRCB -318 | 7.06 | 0.04 | 4.75 | 0.03 | 25.06 | 0.62 | 3.78 | 1.72 | 0.91 | 0.67 | 35.08 | 0.02 | 18.98 | 0.06 | 0.30 | 99.08 |

Daniel Chevalier, MASc
Manager, Minerals Engineering Centre

QA/QC Results

| Sample | Wt. % (Measured) | | | | | | | | | | | | | | |
|------------------|------------------|-------|-------|-------|-------|------|------|------|------|------|-------|------|------|-------|------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
| SY-4 | 20.33 | 0.04 | 8.14 | <0.01 | 6.22 | 1.59 | 0.55 | 0.11 | 7.24 | 0.13 | 50.57 | 0.14 | 0.29 | <0.01 | 0.08 |
| FER-1 | 0.50 | 0.11 | 3.40 | <0.01 | 52.50 | 0.09 | 0.29 | 0.22 | 0.16 | 2.49 | 17.00 | 0.01 | 0.02 | 0.02 | 0.01 |
| BR In-house Std. | 1.93 | <0.01 | 21.97 | <0.01 | 18.20 | 0.03 | 7.31 | 0.24 | 1.03 | 6.24 | 41.62 | 0.02 | 0.37 | 0.08 | 0.01 |

| Sample | Wt. % (Expected) | | | | | | | | | | | | | | | |
|------------------|------------------|-------|-------|-------|-----------------------|------|-------|------|------|------|-------|-------|------|-------|-------|--|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | |
| SY-4 | 20.69 | 0.04 | 8.05 | 0.002 | 6.21 | 1.66 | 0.54 | 0.11 | 7.10 | 0.13 | 49.90 | 0.14 | 0.29 | 0.001 | 0.07 | |
| FER-1 | 0.52 | | 3.29 | | 53.02
(Fe
Tot.) | 0.02 | 0.297 | 0.22 | 0.02 | 2.39 | 16.95 | | 0.03 | | | |
| BR In-house Std. | 1.96 | 0.002 | 22.43 | 0.004 | 17.95 | 0.03 | 7.30 | 0.24 | 1.02 | 6.16 | 41.55 | 0.019 | 0.37 | 0.076 | 0.011 | |

20-Feb-12

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

Re: results of major oxide analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | Wt. % | | | | | | | | | | | | | | | |
|---------------|-------|------|------|-------|-------|------|------|------|------|------|-------|------|-------|------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB -108 | 6.00 | 0.07 | 4.76 | 0.04 | 26.01 | 0.56 | 3.91 | 2.26 | 0.53 | 0.77 | 32.37 | 0.02 | 20.86 | 0.06 | 0.81 | 99.02 |
| SRCB -109 | 5.99 | 0.07 | 5.07 | 0.05 | 25.12 | 0.57 | 4.33 | 2.07 | 0.63 | 0.72 | 34.27 | 0.02 | 19.39 | 0.06 | 0.86 | 99.20 |
| SRCB -110 | 5.86 | 0.07 | 4.41 | 0.04 | 27.03 | 0.58 | 3.63 | 2.31 | 0.70 | 0.75 | 33.29 | 0.01 | 19.42 | 0.07 | 1.09 | 99.24 |
| SRCB -111 | 6.03 | 0.06 | 4.47 | 0.04 | 28.49 | 0.57 | 3.59 | 2.43 | 0.61 | 0.73 | 31.38 | 0.02 | 20.31 | 0.07 | 1.09 | 99.88 |
| SRCB -112 | 6.04 | 0.07 | 4.97 | 0.04 | 25.03 | 0.60 | 4.18 | 2.15 | 0.56 | 0.79 | 34.16 | 0.02 | 19.59 | 0.07 | 1.06 | 99.34 |
| SRCB -113 | 5.92 | 0.07 | 4.98 | 0.04 | 26.00 | 0.54 | 4.03 | 2.41 | 0.59 | 0.82 | 32.09 | 0.02 | 21.14 | 0.07 | 0.99 | 99.67 |
| SRCB -113 B | 5.80 | 0.08 | 4.09 | 0.04 | 31.01 | 0.52 | 3.21 | 2.51 | 0.66 | 0.73 | 28.80 | 0.02 | 19.96 | 0.07 | 1.55 | 99.06 |
| SRCB -114 | 5.96 | 0.06 | 4.75 | 0.04 | 25.88 | 0.56 | 3.84 | 2.30 | 0.67 | 0.77 | 32.67 | 0.02 | 20.65 | 0.06 | 0.97 | 99.18 |
| SRCB -114B | 6.74 | 0.06 | 5.37 | 0.04 | 25.01 | 0.67 | 4.24 | 1.91 | 0.83 | 0.68 | 35.02 | 0.02 | 17.86 | 0.06 | 0.87 | 99.37 |
| SRCB -115 | 6.78 | 0.05 | 5.08 | 0.04 | 27.19 | 0.66 | 3.86 | 1.89 | 0.84 | 0.67 | 32.31 | 0.02 | 19.16 | 0.07 | 0.58 | 99.18 |
| SRCB -115B | 6.19 | 0.08 | 4.25 | 0.05 | 36.19 | 0.51 | 2.44 | 2.62 | 0.70 | 0.56 | 29.36 | 0.02 | 13.68 | 0.09 | 2.66 | 99.40 |
| SRCB -116 | 6.07 | 0.08 | 4.46 | 0.04 | 29.58 | 0.57 | 3.48 | 2.67 | 0.69 | 0.72 | 30.12 | 0.02 | 19.56 | 0.07 | 1.32 | 99.45 |
| SRCB -117 | 6.28 | 0.08 | 5.05 | 0.05 | 28.48 | 0.60 | 3.71 | 2.26 | 0.70 | 0.69 | 31.88 | 0.02 | 18.20 | 0.07 | 1.20 | 99.28 |
| SRCB -118 | 6.34 | 0.08 | 4.69 | 0.05 | 31.31 | 0.60 | 3.78 | 2.17 | 0.64 | 0.69 | 30.22 | 0.02 | 17.50 | 0.08 | 1.49 | 99.65 |
| SRCB -119 | 6.93 | 0.17 | 5.05 | 0.04 | 29.08 | 0.63 | 3.78 | 2.23 | 0.77 | 0.64 | 31.65 | 0.02 | 17.23 | 0.07 | 1.06 | 99.37 |
| SRCB -120 | 6.71 | 0.08 | 5.05 | 0.04 | 25.87 | 0.69 | 3.73 | 2.05 | 0.81 | 0.67 | 33.51 | 0.02 | 19.41 | 0.06 | 0.63 | 99.32 |
| SRCB -120 Dup | 6.73 | 0.08 | 5.05 | 0.04 | 25.83 | 0.68 | 3.77 | 2.05 | 0.80 | 0.68 | 33.58 | 0.02 | 19.36 | 0.06 | 0.63 | 99.36 |
| SRCB -121 | 8.13 | 0.11 | 6.50 | 0.04 | 25.85 | 0.76 | 4.05 | 1.58 | 1.10 | 0.53 | 36.69 | 0.02 | 12.70 | 0.07 | 0.82 | 98.95 |
| SRCB -122 | 4.24 | 0.07 | 1.00 | 0.03 | 25.82 | 0.78 | 0.64 | 1.61 | 0.66 | 0.30 | 54.01 | 0.01 | 9.07 | 0.06 | 0.84 | 99.16 |

| Sample | Wt. % | | | | | | | | | | | | | | | |
|---------------|-------|------|------|-------|-------|------|------|------|------|------|-------|------|-------|------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB -123 | 6.14 | 0.08 | 5.05 | 0.04 | 25.54 | 0.58 | 3.98 | 2.27 | 0.66 | 0.76 | 33.75 | 0.02 | 19.08 | 0.07 | 1.04 | 99.06 |
| SRCB -124 | 6.20 | 0.07 | 5.20 | 0.04 | 23.76 | 0.62 | 4.28 | 2.06 | 0.73 | 0.78 | 35.42 | 0.02 | 19.05 | 0.06 | 0.84 | 99.13 |
| SRCB -125 | 6.22 | 0.08 | 4.96 | 0.04 | 25.30 | 0.64 | 4.09 | 2.16 | 0.59 | 0.80 | 33.29 | 0.02 | 20.23 | 0.06 | 0.80 | 99.29 |
| SRCB -126 | 6.23 | 0.07 | 4.99 | 0.04 | 25.21 | 0.63 | 4.13 | 2.18 | 0.68 | 0.79 | 33.94 | 0.02 | 19.48 | 0.06 | 1.01 | 99.47 |
| SRCB -127 | 5.90 | 0.06 | 4.47 | 0.04 | 28.48 | 0.56 | 3.58 | 2.42 | 0.66 | 0.80 | 30.47 | 0.02 | 20.69 | 0.07 | 1.06 | 99.28 |
| SRCB -128 | 5.85 | 0.07 | 4.61 | 0.04 | 28.56 | 0.54 | 3.72 | 2.50 | 0.66 | 0.75 | 30.50 | 0.02 | 20.15 | 0.07 | 1.21 | 99.25 |
| SRCB -129 | 5.71 | 0.08 | 4.39 | 0.04 | 29.01 | 0.53 | 3.42 | 2.63 | 0.61 | 0.78 | 29.68 | 0.02 | 20.87 | 0.07 | 1.39 | 99.22 |
| SRCB -130 | 7.16 | 0.08 | 6.10 | 0.04 | 25.16 | 0.64 | 4.61 | 1.87 | 0.86 | 0.71 | 35.02 | 0.02 | 16.22 | 0.07 | 0.88 | 99.43 |
| SRCB -131 | 8.47 | 0.09 | 7.14 | 0.03 | 24.94 | 0.69 | 4.51 | 1.42 | 1.10 | 0.56 | 36.02 | 0.03 | 13.63 | 0.07 | 0.54 | 99.26 |
| SRCB -132 | 7.16 | 0.08 | 5.42 | 0.04 | 33.39 | 0.63 | 3.23 | 1.83 | 0.87 | 0.50 | 31.61 | 0.02 | 13.72 | 0.08 | 0.74 | 99.32 |
| SRCB -133 | 6.46 | 0.05 | 5.07 | 0.03 | 24.87 | 0.63 | 3.95 | 2.02 | 0.61 | 0.76 | 33.09 | 0.02 | 21.04 | 0.06 | 0.47 | 99.12 |
| SRCB -134 | 6.40 | 0.06 | 5.36 | 0.04 | 25.15 | 0.64 | 4.41 | 1.83 | 0.67 | 0.75 | 35.29 | 0.02 | 17.88 | 0.06 | 0.76 | 99.32 |
| SRCB -135 | 6.40 | 0.05 | 5.09 | 0.04 | 25.16 | 0.65 | 4.25 | 1.83 | 0.80 | 0.74 | 33.97 | 0.02 | 19.69 | 0.06 | 0.62 | 99.37 |
| SRCB -136 | 6.59 | 0.05 | 5.17 | 0.04 | 25.18 | 0.66 | 4.21 | 1.77 | 0.83 | 0.68 | 33.89 | 0.02 | 19.37 | 0.06 | 0.55 | 99.09 |
| SRCB -137 | 6.75 | 0.05 | 5.21 | 0.04 | 24.63 | 0.68 | 4.25 | 1.77 | 0.80 | 0.73 | 34.44 | 0.02 | 19.22 | 0.06 | 0.56 | 99.21 |
| SRCB -138 | 8.50 | 0.09 | 6.82 | 0.04 | 25.52 | 0.76 | 4.61 | 1.33 | 1.12 | 0.54 | 36.45 | 0.03 | 13.04 | 0.07 | 0.43 | 99.36 |
| SRCB -139 | 6.95 | 0.06 | 5.63 | 0.03 | 23.03 | 0.68 | 4.61 | 1.51 | 0.67 | 0.72 | 35.45 | 0.02 | 19.61 | 0.06 | 0.26 | 99.30 |
| SRCB -140 | 7.52 | 0.07 | 5.99 | 0.04 | 23.05 | 0.82 | 4.96 | 1.31 | 0.87 | 0.69 | 37.10 | 0.02 | 16.22 | 0.06 | 0.37 | 99.08 |
| SRCB -141 | 6.56 | 0.11 | 5.74 | 0.04 | 22.78 | 0.69 | 5.05 | 1.51 | 0.73 | 0.79 | 35.20 | 0.02 | 19.40 | 0.06 | 0.42 | 99.10 |
| SRCB -141 Dup | 6.51 | 0.06 | 5.80 | 0.04 | 22.70 | 0.70 | 4.95 | 1.50 | 0.72 | 0.79 | 35.33 | 0.02 | 19.61 | 0.06 | 0.42 | 99.19 |
| SRCB -142 | 6.83 | 0.06 | 5.69 | 0.04 | 22.95 | 0.73 | 4.76 | 1.61 | 0.77 | 0.75 | 35.98 | 0.02 | 18.55 | 0.06 | 0.50 | 99.30 |
| SRCB -143 | 6.78 | 0.06 | 5.23 | 0.04 | 23.71 | 0.77 | 4.47 | 1.74 | 0.68 | 0.79 | 35.68 | 0.02 | 19.23 | 0.06 | 0.61 | 99.86 |
| SRCB -144 | 6.81 | 0.06 | 5.23 | 0.04 | 22.35 | 0.82 | 4.35 | 1.68 | 0.79 | 0.72 | 37.70 | 0.02 | 18.17 | 0.06 | 0.65 | 99.45 |
| SRCB -145 | 7.09 | 0.05 | 5.58 | 0.04 | 21.77 | 0.81 | 4.77 | 1.36 | 0.83 | 0.70 | 37.87 | 0.02 | 17.99 | 0.06 | 0.33 | 99.25 |
| SRCB -146 | 6.47 | 0.05 | 5.33 | 0.04 | 22.66 | 0.70 | 4.45 | 1.71 | 0.80 | 0.73 | 36.53 | 0.02 | 19.51 | 0.06 | 0.54 | 99.59 |
| SRCB -147 | 6.31 | 0.05 | 5.36 | 0.04 | 23.50 | 0.63 | 4.39 | 1.87 | 0.80 | 0.83 | 34.22 | 0.02 | 20.69 | 0.06 | 0.53 | 99.30 |
| SRCB -148 | 6.42 | 0.06 | 5.09 | 0.04 | 25.69 | 0.62 | 4.28 | 2.02 | 0.73 | 0.75 | 32.82 | 0.02 | 19.59 | 0.06 | 0.82 | 99.01 |
| SRCB -149 | 6.46 | 0.05 | 5.02 | 0.04 | 24.35 | 0.71 | 4.19 | 1.78 | 0.83 | 0.75 | 34.60 | 0.02 | 19.76 | 0.06 | 0.58 | 99.20 |

Daniel Chevalier, MASc
Manager, Minerals Engineering Centre

| Sample | Wt. % (Measured) | | | | | | | | | | | | | | |
|------------------|------------------|-------|-------|-------|-------|-------|------|------|------|------|-------|------|------|-------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
| SY-4 | 20.52 | 0.04 | 8.21 | <0.01 | 6.24 | 1.55 | 0.54 | 0.11 | 7.08 | 0.13 | 50.51 | 0.14 | 0.29 | <0.01 | 0.08 |
| FER-1 | 0.46 | 0.10 | 3.30 | <0.01 | 53.11 | <0.01 | 0.29 | 0.23 | 0.18 | 2.30 | 16.78 | 0.01 | 0.02 | 0.01 | <0.01 |
| BR In-house Std. | 1.93 | <0.01 | 21.94 | <0.01 | 18.34 | 0.02 | 7.20 | 0.24 | 1.01 | 6.35 | 41.51 | 0.02 | 0.38 | 0.08 | <0.01 |

| Sample | Wt. % (Expected) | | | | | | | | | | | | | | |
|------------------|------------------|-------|-------|-------|--------------------|------|-------|------|------|------|-------|-------|------|-------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
| SY-4 | 20.69 | 0.04 | 8.05 | 0.002 | 6.21 | 1.66 | 0.54 | 0.11 | 7.10 | 0.13 | 49.90 | 0.14 | 0.29 | 0.001 | 0.07 |
| FER-1 | 0.52 | | 3.29 | | 53.02
(Fe Tot.) | 0.02 | 0.297 | 0.22 | 0.02 | 2.39 | 16.95 | | 0.03 | | |
| BR In-house Std. | 1.96 | 0.002 | 22.43 | 0.004 | 17.95 | 0.03 | 7.30 | 0.24 | 1.02 | 6.16 | 41.55 | 0.019 | 0.37 | 0.076 | 0.011 |

20-Feb-12

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

Re: results of major oxide analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | Wt. % | | | | | | | | | | | | | | | |
|----------------|-------|-------|------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB-63 Repeat | 6.70 | 0.06 | 5.14 | 0.04 | 25.32 | 0.64 | 4.20 | 1.99 | 0.81 | 0.73 | 32.29 | 0.02 | 20.81 | 0.06 | 0.54 | 99.37 |
| SRCB-150 | 6.69 | 0.05 | 5.21 | 0.04 | 24.82 | 0.71 | 4.33 | 1.86 | 0.75 | 0.76 | 33.11 | 0.02 | 20.04 | 0.06 | 0.61 | 99.09 |
| SRCB-151 | 0.69 | <0.01 | 0.07 | <0.01 | 0.15 | 0.17 | 0.05 | 0.01 | 0.01 | 0.03 | 97.81 | <0.01 | 0.12 | <0.01 | 0.02 | 99.12 |
| SRCB-152 | 6.23 | 0.12 | 5.77 | 0.05 | 25.63 | 0.59 | 4.90 | 2.20 | 0.53 | 0.92 | 32.64 | 0.02 | 18.27 | 0.07 | 1.57 | 99.51 |
| SRCB-153 | 6.40 | 0.10 | 5.92 | 0.05 | 24.02 | 0.65 | 5.19 | 1.91 | 0.62 | 0.86 | 33.73 | 0.02 | 18.29 | 0.07 | 1.15 | 98.99 |
| SRCB-154 | 6.25 | 0.11 | 5.72 | 0.05 | 24.66 | 0.62 | 4.96 | 2.11 | 0.56 | 0.87 | 34.25 | 0.02 | 17.50 | 0.07 | 1.57 | 99.32 |
| SRCB-155 | 6.19 | 0.11 | 6.00 | 0.05 | 24.12 | 0.61 | 5.36 | 1.95 | 0.55 | 0.88 | 34.26 | 0.02 | 17.67 | 0.07 | 1.25 | 99.10 |
| SRCB-156 | 6.05 | 0.11 | 5.96 | 0.05 | 24.61 | 0.56 | 5.23 | 2.07 | 0.52 | 0.95 | 32.61 | 0.02 | 18.94 | 0.07 | 1.32 | 99.09 |
| SRCB-157 | 6.74 | 0.09 | 5.93 | 0.04 | 24.51 | 0.63 | 4.80 | 1.88 | 0.64 | 0.81 | 33.65 | 0.02 | 18.35 | 0.07 | 0.84 | 99.01 |
| SRCB-158 | 6.39 | 0.09 | 5.79 | 0.05 | 24.04 | 0.60 | 4.97 | 2.06 | 0.52 | 0.85 | 33.67 | 0.02 | 19.04 | 0.07 | 0.94 | 99.08 |
| SRCB-159 | 6.28 | 0.11 | 5.91 | 0.05 | 24.47 | 0.61 | 5.15 | 2.00 | 0.57 | 0.90 | 33.05 | 0.02 | 18.77 | 0.07 | 1.15 | 99.11 |
| SRCB-160 | 6.43 | 0.07 | 5.31 | 0.04 | 24.77 | 0.64 | 4.56 | 2.11 | 0.59 | 0.83 | 33.35 | 0.02 | 19.28 | 0.07 | 0.98 | 99.05 |
| SRCB-160 Dup | 6.43 | 0.07 | 5.30 | 0.04 | 24.74 | 0.65 | 4.54 | 2.10 | 0.60 | 0.80 | 33.45 | 0.02 | 19.31 | 0.07 | 0.98 | 99.09 |
| SRCB-161 | 4.45 | 0.10 | 1.52 | 0.04 | 40.55 | 0.38 | 0.92 | 3.38 | 0.31 | 0.51 | 30.06 | 0.01 | 13.72 | 0.10 | 3.23 | 99.30 |
| SRCB-162 | 6.40 | 0.07 | 5.83 | 0.04 | 21.98 | 0.70 | 5.12 | 1.60 | 0.61 | 0.81 | 35.53 | 0.02 | 20.10 | 0.06 | 0.38 | 99.24 |
| SRCB-163 | 6.95 | 0.08 | 5.51 | 0.05 | 23.22 | 0.79 | 4.71 | 1.73 | 0.65 | 0.76 | 36.06 | 0.02 | 18.11 | 0.06 | 0.69 | 99.37 |
| SRCB-164 | 6.65 | 0.07 | 4.95 | 0.04 | 20.46 | 0.87 | 4.38 | 1.42 | 0.71 | 0.68 | 42.37 | 0.02 | 16.17 | 0.05 | 0.47 | 99.32 |
| SRCB-165 | 6.65 | 0.07 | 5.18 | 0.05 | 24.07 | 0.74 | 4.49 | 1.98 | 0.60 | 0.75 | 33.90 | 0.02 | 19.87 | 0.06 | 0.69 | 99.13 |
| SRCB-166 | 6.03 | 0.06 | 4.59 | 0.04 | 27.94 | 0.56 | 3.72 | 2.53 | 0.52 | 0.76 | 29.62 | 0.02 | 22.13 | 0.07 | 0.93 | 99.52 |

| Sample | Wt. % | | | | | | | | | | | | | | | |
|--------------|-------|-------|------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB-167 | 6.25 | 0.06 | 4.95 | 0.04 | 26.15 | 0.60 | 4.05 | 2.29 | 0.53 | 0.78 | 31.14 | 0.02 | 21.59 | 0.07 | 0.82 | 99.35 |
| SRCB-168 | 5.93 | 0.07 | 4.68 | 0.04 | 27.45 | 0.56 | 3.80 | 2.40 | 0.65 | 0.79 | 29.93 | 0.02 | 21.95 | 0.07 | 0.86 | 99.19 |
| SRCB-169 | 6.16 | 0.06 | 5.01 | 0.04 | 25.65 | 0.58 | 4.00 | 2.22 | 0.74 | 0.78 | 31.98 | 0.02 | 21.14 | 0.07 | 0.80 | 99.24 |
| SRCB-170 | 5.93 | 0.08 | 4.42 | 0.04 | 28.17 | 0.52 | 3.45 | 2.65 | 0.68 | 0.77 | 29.88 | 0.02 | 21.84 | 0.07 | 0.90 | 99.41 |
| SRCB-171 | 5.39 | 0.07 | 3.76 | 0.04 | 35.53 | 0.42 | 2.76 | 2.65 | 0.48 | 0.74 | 24.65 | 0.02 | 20.95 | 0.09 | 1.50 | 99.05 |
| SRCB-172 | 6.12 | 0.06 | 4.34 | 0.04 | 30.59 | 0.53 | 3.19 | 2.62 | 0.62 | 0.68 | 27.77 | 0.02 | 22.23 | 0.07 | 0.58 | 99.46 |
| SRCB-173 | 5.51 | 0.06 | 4.67 | 0.05 | 21.99 | 0.55 | 3.97 | 1.85 | 0.47 | 0.68 | 41.30 | 0.02 | 17.38 | 0.06 | 0.71 | 99.28 |
| SRCB-174 | 6.14 | 0.07 | 4.88 | 0.04 | 26.59 | 0.57 | 4.11 | 2.34 | 0.52 | 0.76 | 31.38 | 0.02 | 20.77 | 0.07 | 0.95 | 99.20 |
| SRCB-175 | 6.19 | 0.08 | 5.32 | 0.04 | 25.32 | 0.63 | 4.53 | 2.10 | 0.64 | 0.82 | 32.30 | 0.02 | 20.75 | 0.07 | 0.83 | 99.64 |
| SRCB-176 | 5.78 | 0.07 | 4.34 | 0.05 | 28.90 | 0.54 | 3.62 | 2.48 | 0.63 | 0.75 | 30.76 | 0.02 | 19.64 | 0.07 | 1.57 | 99.22 |
| SRCB-177 | 5.70 | 0.06 | 4.30 | 0.04 | 29.85 | 0.49 | 3.43 | 2.54 | 0.61 | 0.73 | 28.90 | 0.02 | 21.30 | 0.07 | 1.02 | 99.06 |
| SRCB-178 | 6.31 | 0.05 | 5.09 | 0.04 | 24.57 | 0.60 | 4.20 | 2.09 | 0.55 | 0.80 | 32.17 | 0.02 | 21.98 | 0.06 | 0.54 | 99.07 |
| SRCB-179 | 6.14 | 0.05 | 4.24 | 0.04 | 23.78 | 0.70 | 3.44 | 2.05 | 0.62 | 0.68 | 37.83 | 0.02 | 19.24 | 0.06 | 0.59 | 99.46 |
| SRCB-179 Dup | 6.11 | 0.05 | 4.24 | 0.04 | 23.77 | 0.69 | 3.44 | 2.05 | 0.62 | 0.68 | 37.89 | 0.02 | 19.21 | 0.06 | 0.59 | 99.45 |
| SRCB-180 | 6.19 | 0.06 | 4.68 | 0.05 | 25.03 | 0.67 | 3.85 | 2.02 | 0.65 | 0.69 | 34.83 | 0.02 | 19.59 | 0.06 | 0.60 | 98.98 |
| SRCB-181 | 6.26 | 0.05 | 4.74 | 0.05 | 26.21 | 0.60 | 3.79 | 2.15 | 0.65 | 0.70 | 32.81 | 0.02 | 20.31 | 0.06 | 0.74 | 99.13 |
| SRCB-182 | 6.33 | 0.05 | 4.88 | 0.04 | 26.94 | 0.59 | 3.80 | 2.22 | 0.65 | 0.72 | 30.98 | 0.02 | 21.45 | 0.06 | 0.64 | 99.38 |
| SRCB-183 | 9.43 | 0.05 | 6.43 | 0.03 | 24.16 | 0.90 | 4.41 | 1.54 | 0.89 | 0.47 | 36.37 | 0.03 | 13.91 | 0.07 | 0.40 | 99.08 |
| SRCB-184 | 5.87 | 0.06 | 4.57 | 0.04 | 27.76 | 0.51 | 3.57 | 2.56 | 0.48 | 0.79 | 29.62 | 0.02 | 22.50 | 0.07 | 0.83 | 99.26 |
| SRCB-185 | 5.67 | 0.08 | 3.91 | 0.04 | 35.37 | 0.46 | 2.81 | 2.72 | 0.44 | 0.65 | 25.67 | 0.02 | 20.24 | 0.08 | 1.10 | 99.25 |
| SRCB-186 | 8.81 | 0.12 | 7.19 | 0.04 | 26.81 | 0.63 | 4.31 | 1.60 | 1.17 | 0.57 | 35.19 | 0.03 | 12.42 | 0.07 | 0.40 | 99.38 |
| SRCB-187 | 10.25 | 0.06 | 7.82 | 0.04 | 23.07 | 0.71 | 4.67 | 1.01 | 1.26 | 0.45 | 41.62 | 0.04 | 7.86 | 0.07 | 0.34 | 99.28 |
| SRCB-188 | 0.72 | <0.01 | 0.10 | <0.01 | 0.26 | 0.16 | 0.07 | 0.01 | 0.01 | <0.01 | 97.97 | <0.01 | 0.15 | <0.01 | 0.03 | 99.46 |
| SRCB-189 | 6.01 | 0.05 | 5.00 | 0.04 | 25.71 | 0.54 | 4.04 | 2.23 | 0.48 | 0.79 | 30.89 | 0.02 | 22.47 | 0.06 | 0.66 | 99.00 |
| SRCB-190 | 6.06 | 0.04 | 4.82 | 0.04 | 26.20 | 0.57 | 3.95 | 2.11 | 0.53 | 0.80 | 31.82 | 0.02 | 21.22 | 0.06 | 0.78 | 99.02 |
| SRCB-191 | 6.14 | 0.05 | 5.07 | 0.04 | 24.73 | 0.59 | 4.23 | 2.02 | 0.66 | 0.82 | 32.56 | 0.02 | 21.76 | 0.06 | 0.59 | 99.35 |
| SRCB-192 | 6.05 | 0.05 | 4.95 | 0.05 | 25.82 | 0.58 | 4.16 | 2.12 | 0.70 | 0.73 | 32.35 | 0.02 | 20.83 | 0.06 | 0.73 | 99.19 |
| SRCB-193 | 5.87 | 0.06 | 4.42 | 0.04 | 29.77 | 0.52 | 3.41 | 2.66 | 0.66 | 0.76 | 28.51 | 0.02 | 21.45 | 0.07 | 1.01 | 99.23 |
| SRCB-194 | 4.30 | 0.08 | 1.00 | 0.04 | 25.79 | 0.80 | 0.65 | 1.65 | 0.65 | 0.31 | 53.70 | 0.01 | 9.19 | 0.06 | 0.88 | 99.10 |
| SRCB-195 | 6.19 | 0.06 | 5.06 | 0.05 | 23.54 | 0.69 | 4.37 | 1.81 | 0.59 | 0.74 | 37.04 | 0.02 | 18.41 | 0.06 | 0.76 | 99.42 |
| SRCB-196 | 6.12 | 0.07 | 5.34 | 0.05 | 24.36 | 0.58 | 4.51 | 2.13 | 0.54 | 0.82 | 33.26 | 0.02 | 20.40 | 0.06 | 0.84 | 99.09 |
| SRCB-197 | 6.10 | 0.06 | 5.19 | 0.05 | 25.25 | 0.58 | 4.38 | 2.13 | 0.64 | 0.79 | 32.36 | 0.02 | 20.68 | 0.06 | 0.82 | 99.11 |
| SRCB-198 | 6.51 | 0.06 | 4.90 | 0.04 | 27.54 | 0.63 | 3.63 | 2.19 | 0.71 | 0.70 | 30.96 | 0.02 | 20.59 | 0.07 | 0.64 | 99.19 |

| Sample | Wt. % | | | | | | | | | | | | | | | |
|--------------|-------|------|------|-------|-------|------|------|------|------|------|-------|------|-------|------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB-199 | 5.82 | 0.07 | 4.69 | 0.05 | 28.87 | 0.50 | 3.80 | 2.47 | 0.43 | 0.83 | 29.28 | 0.02 | 21.19 | 0.07 | 1.13 | 99.21 |
| SRCB-200 | 5.86 | 0.07 | 4.99 | 0.04 | 27.54 | 0.48 | 3.93 | 2.49 | 0.40 | 0.87 | 29.27 | 0.02 | 21.83 | 0.07 | 1.19 | 99.06 |
| SRCB-200 Dup | 5.84 | 0.07 | 5.04 | 0.04 | 27.50 | 0.49 | 3.98 | 2.50 | 0.40 | 0.89 | 29.35 | 0.02 | 21.95 | 0.07 | 1.20 | 99.34 |
| SRCB-201 | 5.88 | 0.07 | 5.12 | 0.05 | 26.63 | 0.51 | 4.27 | 2.43 | 0.45 | 0.84 | 31.13 | 0.02 | 20.91 | 0.07 | 1.12 | 99.49 |
| SRCB-202 | 5.63 | 0.07 | 4.57 | 0.04 | 30.01 | 0.47 | 3.62 | 2.56 | 0.42 | 0.80 | 27.78 | 0.02 | 21.69 | 0.07 | 1.32 | 99.08 |
| SRCB-203 | 5.98 | 0.06 | 4.76 | 0.04 | 27.82 | 0.55 | 3.81 | 2.44 | 0.55 | 0.77 | 29.73 | 0.02 | 21.38 | 0.07 | 1.07 | 99.06 |
| SRCB-204 | 6.86 | 0.07 | 5.12 | 0.04 | 26.96 | 0.68 | 3.87 | 2.07 | 0.73 | 0.71 | 32.20 | 0.02 | 19.13 | 0.07 | 0.73 | 99.25 |
| SRCB-205 | 6.17 | 0.10 | 5.01 | 0.05 | 26.99 | 0.58 | 4.01 | 2.63 | 0.50 | 0.83 | 31.38 | 0.02 | 19.25 | 0.07 | 1.76 | 99.35 |

Daniel Chevalier, MASc
Manager, Minerals Engineering Centre

| Sample | Wt. % (Measured) | | | | | | | | | | | | | | |
|------------------|------------------|-------|-------|-------|-------|-------|------|------|------|------|-------|------|------|-------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
| SY-4 | 20.69 | 0.04 | 8.17 | <0.01 | 6.24 | 1.67 | 0.55 | 0.11 | 7.03 | 0.13 | 50.18 | 0.14 | 0.30 | <0.01 | 0.08 |
| FER-1 | 0.46 | 0.11 | 3.34 | <0.01 | 53.09 | <0.01 | 0.29 | 0.23 | 0.05 | 2.42 | 16.83 | 0.01 | 0.02 | 0.02 | <0.01 |
| BR In-house Std. | 1.95 | <0.01 | 22.09 | <0.01 | 18.23 | 0.01 | 7.35 | 0.25 | 0.99 | 6.42 | 41.28 | 0.02 | 0.38 | 0.08 | <0.01 |

| Sample | Wt. % (Expected) | | | | | | | | | | | | | | |
|------------------|------------------|-------|-------|-------|--------------------|------|-------|------|------|------|-------|-------|------|-------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
| SY-4 | 20.69 | 0.04 | 8.05 | 0.002 | 6.21 | 1.66 | 0.54 | 0.11 | 7.10 | 0.13 | 49.90 | 0.14 | 0.29 | 0.001 | 0.07 |
| FER-1 | 0.52 | | 3.29 | | 53.02
(Fe Tot.) | 0.02 | 0.297 | 0.22 | 0.02 | 2.39 | 16.95 | | 0.03 | | |
| BR In-house Std. | 1.96 | 0.002 | 22.43 | 0.004 | 17.95 | 0.03 | 7.30 | 0.24 | 1.02 | 6.16 | 41.55 | 0.019 | 0.37 | 0.076 | 0.011 |

21-Feb-12

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

Re: results of major oxide analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | Wt. % | | | | | | | | | | | | | | | Total |
|---------------|-------|-------|------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | |
| SRCB -206 | 5.90 | 0.08 | 4.98 | 0.05 | 26.55 | 0.52 | 4.10 | 2.42 | 0.63 | 0.84 | 32.01 | 0.02 | 20.17 | 0.06 | 1.21 | 99.53 |
| SRCB -207 | 5.88 | 0.07 | 4.88 | 0.05 | 26.09 | 0.51 | 3.99 | 2.38 | 0.59 | 0.81 | 33.65 | 0.02 | 19.45 | 0.06 | 1.24 | 99.65 |
| SRCB -208 | 6.12 | 0.08 | 5.21 | 0.05 | 26.63 | 0.55 | 4.22 | 2.31 | 0.60 | 0.79 | 31.95 | 0.02 | 19.20 | 0.07 | 1.22 | 99.00 |
| SRCB -209 | 5.83 | 0.10 | 4.84 | 0.04 | 28.85 | 0.48 | 3.89 | 2.67 | 0.45 | 0.84 | 29.45 | 0.02 | 20.47 | 0.07 | 1.54 | 99.55 |
| SRCB -210 | 6.03 | 0.09 | 4.94 | 0.04 | 27.52 | 0.56 | 4.06 | 2.41 | 0.66 | 0.85 | 31.54 | 0.02 | 19.33 | 0.07 | 1.30 | 99.41 |
| SRCB -211 | 5.89 | 0.10 | 4.89 | 0.04 | 28.35 | 0.50 | 3.94 | 2.63 | 0.68 | 0.87 | 30.70 | 0.02 | 19.28 | 0.07 | 1.59 | 99.53 |
| SRCB -212 | 5.61 | 0.10 | 4.38 | 0.04 | 31.72 | 0.44 | 3.57 | 2.78 | 0.65 | 0.83 | 27.93 | 0.01 | 19.36 | 0.07 | 1.71 | 99.21 |
| SRCB -213 | 5.94 | 0.08 | 4.94 | 0.04 | 26.41 | 0.56 | 4.17 | 2.31 | 0.60 | 0.83 | 31.68 | 0.02 | 20.45 | 0.06 | 1.02 | 99.10 |
| SRCB -214 | 5.85 | 0.07 | 4.35 | 0.04 | 30.95 | 0.52 | 3.52 | 2.67 | 0.59 | 0.80 | 28.73 | 0.01 | 19.75 | 0.07 | 1.49 | 99.41 |
| SRCB -215 | 9.03 | 0.04 | 6.89 | 0.03 | 25.55 | 0.70 | 4.76 | 1.38 | 1.05 | 0.53 | 36.04 | 0.03 | 12.84 | 0.06 | 0.18 | 99.12 |
| SRCB -216 | 6.78 | 0.05 | 4.96 | 0.04 | 27.27 | 0.64 | 3.79 | 2.00 | 0.77 | 0.66 | 31.70 | 0.02 | 20.30 | 0.06 | 0.37 | 99.40 |
| SRCB -217 | 8.64 | 0.04 | 6.66 | 0.05 | 25.17 | 0.73 | 4.52 | 1.26 | 1.08 | 0.48 | 38.34 | 0.03 | 11.92 | 0.06 | 0.22 | 99.20 |
| SRCB -218 | 8.07 | 0.04 | 6.07 | 0.04 | 25.66 | 0.75 | 4.34 | 1.50 | 0.96 | 0.59 | 35.56 | 0.03 | 15.32 | 0.06 | 0.21 | 99.19 |
| SRCB -219 | 7.38 | 0.04 | 5.67 | 0.05 | 24.99 | 0.69 | 4.30 | 1.62 | 0.82 | 0.64 | 34.84 | 0.02 | 17.67 | 0.06 | 0.29 | 99.08 |
| SRCB -220 | 6.90 | 0.04 | 5.07 | 0.04 | 25.61 | 0.73 | 4.05 | 1.76 | 0.88 | 0.68 | 33.53 | 0.02 | 19.68 | 0.06 | 0.31 | 99.36 |
| SRCB -220 Dup | 6.92 | 0.04 | 5.08 | 0.03 | 25.51 | 0.68 | 3.99 | 1.76 | 0.79 | 0.68 | 33.72 | 0.02 | 19.70 | 0.06 | 0.31 | 99.29 |
| SRCB -221 | 0.70 | <0.01 | 0.08 | <0.01 | 0.22 | 0.16 | 0.06 | 0.01 | 0.01 | 0.03 | 98.07 | <0.01 | 0.17 | <0.01 | 0.02 | 99.52 |
| SRCB -222 | 4.41 | 0.10 | 1.48 | 0.04 | 41.33 | 0.34 | 0.91 | 3.41 | 0.30 | 0.49 | 30.07 | 0.01 | 13.45 | 0.09 | 3.06 | 99.49 |
| SRCB -223 | 8.72 | 0.04 | 6.38 | 0.04 | 24.96 | 0.80 | 4.44 | 1.28 | 1.05 | 0.53 | 38.46 | 0.03 | 12.32 | 0.06 | 0.20 | 99.30 |

| Sample | Wt. % | | | | | | | | | | | | | | | |
|---------------|-------|------|------|-------|-------|------|------|------|------|------|-------|------|-------|------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB -224 | 8.92 | 0.03 | 6.72 | 0.04 | 27.00 | 0.69 | 4.55 | 1.42 | 1.07 | 0.53 | 35.42 | 0.03 | 12.76 | 0.06 | 0.16 | 99.41 |
| SRCB -225 | 8.58 | 0.05 | 6.61 | 0.04 | 26.73 | 0.73 | 4.37 | 1.44 | 1.07 | 0.51 | 36.57 | 0.03 | 12.34 | 0.06 | 0.24 | 99.36 |
| SRCB -226 | 8.73 | 0.04 | 6.74 | 0.04 | 26.02 | 0.71 | 4.38 | 1.36 | 1.06 | 0.52 | 36.50 | 0.03 | 12.81 | 0.06 | 0.16 | 99.16 |
| SRCB -227 | 8.81 | 0.04 | 6.66 | 0.04 | 25.08 | 0.79 | 4.39 | 1.34 | 1.07 | 0.52 | 37.42 | 0.03 | 12.55 | 0.06 | 0.22 | 99.02 |
| SRCB -228 | 6.42 | 0.04 | 4.45 | 0.03 | 27.63 | 0.59 | 3.42 | 2.19 | 0.77 | 0.67 | 30.76 | 0.02 | 22.10 | 0.06 | 0.34 | 99.50 |
| SRCB -229 | 6.76 | 0.05 | 4.98 | 0.04 | 25.06 | 0.67 | 3.83 | 1.81 | 0.91 | 0.65 | 35.66 | 0.02 | 18.60 | 0.06 | 0.39 | 99.46 |
| SRCB -230 | 6.74 | 0.04 | 4.61 | 0.03 | 23.34 | 0.79 | 3.60 | 1.61 | 0.98 | 0.61 | 38.51 | 0.02 | 18.12 | 0.05 | 0.29 | 99.34 |
| SRCB -231 | 6.60 | 0.05 | 5.04 | 0.04 | 25.94 | 0.62 | 4.02 | 2.04 | 0.80 | 0.71 | 32.66 | 0.02 | 19.82 | 0.06 | 0.63 | 99.06 |
| SRCB -232 | 8.79 | 0.04 | 6.60 | 0.04 | 23.42 | 0.79 | 4.42 | 1.22 | 1.17 | 0.55 | 38.72 | 0.03 | 13.37 | 0.06 | 0.21 | 99.42 |
| SRCB -233 | 6.84 | 0.04 | 5.01 | 0.04 | 25.03 | 0.65 | 4.03 | 1.80 | 0.84 | 0.67 | 34.89 | 0.02 | 19.04 | 0.06 | 0.39 | 99.36 |
| SRCB -234 | 6.65 | 0.05 | 4.98 | 0.03 | 24.68 | 0.65 | 4.00 | 1.83 | 0.85 | 0.69 | 34.43 | 0.02 | 19.78 | 0.06 | 0.43 | 99.14 |
| SRCB -235 | 6.58 | 0.05 | 4.96 | 0.04 | 25.52 | 0.61 | 4.03 | 1.96 | 0.84 | 0.69 | 32.38 | 0.02 | 21.16 | 0.06 | 0.41 | 99.32 |
| SRCB -236 | 6.87 | 0.05 | 4.82 | 0.04 | 23.13 | 0.78 | 3.93 | 1.60 | 0.96 | 0.64 | 38.07 | 0.02 | 17.84 | 0.05 | 0.32 | 99.12 |
| SRCB -237 | 7.95 | 0.04 | 5.78 | 0.04 | 23.90 | 0.81 | 4.38 | 1.43 | 1.06 | 0.60 | 36.74 | 0.02 | 16.00 | 0.05 | 0.26 | 99.05 |
| SRCB -238 | 7.16 | 0.07 | 4.96 | 0.04 | 23.38 | 0.85 | 4.22 | 1.67 | 0.91 | 0.67 | 38.11 | 0.02 | 16.71 | 0.06 | 0.66 | 99.47 |
| SRCB -239 | 7.32 | 0.06 | 5.35 | 0.05 | 21.97 | 0.90 | 4.83 | 1.28 | 1.01 | 0.63 | 39.44 | 0.02 | 16.15 | 0.05 | 0.36 | 99.42 |
| SRCB -240 | 7.13 | 0.07 | 4.95 | 0.04 | 22.64 | 0.86 | 4.44 | 1.55 | 0.93 | 0.66 | 38.75 | 0.02 | 16.50 | 0.05 | 0.57 | 99.16 |
| SRCB -241 | 6.84 | 0.06 | 5.18 | 0.04 | 21.62 | 0.80 | 4.62 | 1.59 | 0.86 | 0.74 | 38.91 | 0.02 | 17.36 | 0.05 | 0.57 | 99.28 |
| SRCB -241 Dup | 6.83 | 0.06 | 5.20 | 0.05 | 21.73 | 0.80 | 4.66 | 1.59 | 0.86 | 0.73 | 38.71 | 0.02 | 17.37 | 0.05 | 0.57 | 99.25 |
| SRCB -242 | 6.64 | 0.05 | 5.25 | 0.04 | 22.70 | 0.70 | 4.58 | 1.70 | 0.73 | 0.74 | 36.51 | 0.02 | 19.09 | 0.05 | 0.43 | 99.24 |
| SRCB -243 | 7.30 | 0.06 | 5.65 | 0.04 | 22.53 | 0.77 | 4.54 | 1.57 | 0.87 | 0.73 | 38.16 | 0.02 | 16.50 | 0.06 | 0.50 | 99.29 |
| SRCB -244 | 6.70 | 0.05 | 5.27 | 0.04 | 23.53 | 0.66 | 4.31 | 1.82 | 0.78 | 0.73 | 35.49 | 0.02 | 19.41 | 0.06 | 0.46 | 99.31 |
| SRCB -245 | 6.24 | 0.07 | 4.99 | 0.04 | 25.92 | 0.59 | 4.23 | 2.26 | 0.61 | 0.79 | 32.53 | 0.02 | 19.78 | 0.06 | 0.89 | 99.02 |
| SRCB -246 | 6.55 | 0.05 | 5.02 | 0.04 | 23.05 | 0.69 | 4.45 | 1.85 | 0.83 | 0.71 | 36.94 | 0.02 | 18.39 | 0.06 | 0.57 | 99.22 |
| SRCB -247 | 5.77 | 0.07 | 4.31 | 0.04 | 30.16 | 0.48 | 3.43 | 2.79 | 0.46 | 0.80 | 28.30 | 0.02 | 21.25 | 0.07 | 1.24 | 99.17 |
| SRCB -248 | 6.25 | 0.06 | 5.04 | 0.04 | 25.37 | 0.60 | 4.29 | 2.22 | 0.69 | 0.81 | 33.32 | 0.02 | 19.54 | 0.06 | 0.87 | 99.18 |
| SRCB -249 | 6.26 | 0.09 | 5.13 | 0.04 | 26.39 | 0.59 | 4.42 | 2.25 | 0.62 | 0.83 | 32.48 | 0.02 | 19.15 | 0.07 | 1.07 | 99.41 |
| SRCB -250 | 6.30 | 0.06 | 4.87 | 0.05 | 26.07 | 0.59 | 4.02 | 2.22 | 0.65 | 0.80 | 32.67 | 0.02 | 20.02 | 0.06 | 0.82 | 99.22 |
| SRCB -251 | 6.40 | 0.09 | 4.37 | 0.04 | 27.06 | 0.62 | 3.54 | 2.51 | 0.69 | 0.73 | 32.07 | 0.02 | 20.19 | 0.06 | 1.01 | 99.40 |
| SRCB -252 | 6.46 | 0.07 | 4.67 | 0.04 | 27.43 | 0.57 | 3.93 | 2.30 | 0.72 | 0.72 | 31.56 | 0.02 | 19.55 | 0.07 | 1.10 | 99.22 |
| SRCB -253 | 6.49 | 0.09 | 4.98 | 0.04 | 25.74 | 0.65 | 4.29 | 1.94 | 0.75 | 0.73 | 33.87 | 0.02 | 18.82 | 0.06 | 0.86 | 99.35 |
| SRCB -254 | 6.51 | 0.07 | 5.08 | 0.04 | 24.97 | 0.64 | 4.32 | 1.97 | 0.70 | 0.78 | 33.61 | 0.02 | 19.79 | 0.06 | 0.68 | 99.24 |
| SRCB -255 | 6.85 | 0.06 | 5.17 | 0.04 | 25.17 | 0.65 | 4.15 | 1.93 | 0.82 | 0.72 | 33.64 | 0.02 | 19.22 | 0.06 | 0.60 | 99.11 |

| Sample | Wt. % | | | | | | | | | | | | | | | |
|---------------|-------|-------|------|-------|-------|------|------|------|-------|------|-------|-------|-------|-------|------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 | Total |
| SRCB -256 | 6.18 | 0.07 | 5.43 | 0.04 | 25.10 | 0.53 | 4.58 | 2.01 | 0.50 | 0.83 | 33.45 | 0.02 | 19.33 | 0.06 | 0.88 | 99.01 |
| SRCB -257 | 5.99 | 0.10 | 5.52 | 0.05 | 26.51 | 0.47 | 4.44 | 2.57 | 0.43 | 0.92 | 31.05 | 0.02 | 20.22 | 0.07 | 1.15 | 99.50 |
| SRCB -258 | 6.23 | 0.06 | 5.01 | 0.04 | 25.00 | 0.55 | 4.14 | 2.34 | 0.49 | 0.80 | 33.31 | 0.02 | 20.56 | 0.06 | 0.59 | 99.18 |
| SRCB -259 | 6.28 | 0.07 | 5.19 | 0.04 | 25.04 | 0.58 | 4.39 | 2.17 | 0.48 | 0.87 | 33.32 | 0.02 | 19.83 | 0.06 | 0.79 | 99.14 |
| SRCB -260 | 6.34 | 0.07 | 5.23 | 0.04 | 25.46 | 0.57 | 4.35 | 2.38 | 0.54 | 0.84 | 33.48 | 0.02 | 19.09 | 0.06 | 1.03 | 99.52 |
| SRCB -260 Dup | 6.39 | 0.07 | 5.18 | 0.04 | 25.45 | 0.59 | 4.39 | 2.37 | 0.54 | 0.85 | 33.31 | 0.02 | 18.95 | 0.06 | 1.04 | 99.25 |
| SRCB -261 | 6.23 | 0.09 | 5.29 | 0.04 | 24.81 | 0.56 | 4.47 | 2.14 | 0.52 | 0.85 | 35.09 | 0.02 | 18.05 | 0.06 | 1.05 | 99.28 |
| SRCB -262 | 0.71 | <0.01 | 0.09 | <0.01 | 0.27 | 0.15 | 0.07 | 0.02 | <0.01 | 0.05 | 97.53 | <0.01 | 0.21 | <0.01 | 0.03 | 99.12 |

Daniel Chevalier, MASc
Manager, Minerals Engineering Centre

| Sample | Wt. % (Measured) | | | | | | | | | | | | | | |
|------------------|------------------|-------|-------|-------|-------|------|------|------|------|------|-------|------|------|-------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
| SY-4 | 20.71 | 0.04 | 8.12 | <0.01 | 6.32 | 1.59 | 0.54 | 0.11 | 7.03 | 0.12 | 50.30 | 0.14 | 0.29 | <0.01 | 0.07 |
| FER-1 | 0.50 | 0.11 | 3.30 | <0.01 | 53.16 | 0.04 | 0.28 | 0.22 | 0.10 | 2.35 | 16.73 | 0.01 | 0.01 | 0.01 | <0.01 |
| BR In-house Std. | 1.98 | <0.01 | 21.93 | <0.01 | 18.40 | 0.03 | 7.14 | 0.24 | 1.04 | 6.35 | 41.39 | 0.02 | 0.37 | 0.08 | <0.01 |

| Sample | Wt. % (Expected) | | | | | | | | | | | | | | |
|------------------|------------------|-------|-------|-------|--------------------|------|-------|------|------|------|-------|-------|------|-------|-------|
| | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
| SY-4 | 20.69 | 0.04 | 8.05 | 0.002 | 6.21 | 1.66 | 0.54 | 0.11 | 7.10 | 0.13 | 49.90 | 0.14 | 0.29 | 0.001 | 0.07 |
| FER-1 | 0.52 | | 3.29 | | 53.02
(Fe Tot.) | 0.02 | 0.297 | 0.22 | 0.02 | 2.39 | 16.95 | | 0.03 | | |
| BR In-house Std. | 1.96 | 0.002 | 22.43 | 0.004 | 17.95 | 0.03 | 7.30 | 0.24 | 1.02 | 6.16 | 41.55 | 0.019 | 0.37 | 0.076 | 0.011 |

16-Dec-11

Maritime Titanium
PO Box 351
Hantsport, NS
B0P 1P0
Attention: Elwood Dillman

minerals.engineering.dal.ca
Tel: 902.494.3951
Fax: 902.494.3501
Email: mec@dal.ca

Re: results of REE analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | mg/kg | | | | | | | | | |
|---------------------|--------|------|-------|--------|------|-------|--------|-------|-------|-------|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr |
| SRCB-001 | 597 | 34 | 21 | 8 | 69 | <10 | 252 | 8 | 264 | 52 |
| SRCB-002 | 708 | 34 | 21 | 10 | 83 | <10 | 315 | 8 | 323 | 67 |
| SRCB-003 | 721 | 38 | 23 | 12 | 87 | <10 | 324 | 8 | 364 | 59 |
| SRCB-004 | 633 | 32 | 19 | 10 | 79 | <10 | 287 | 8 | 310 | 65 |
| SRCB-005 | 646 | 35 | 22 | 10 | 78 | <10 | 279 | 8 | 302 | 60 |
| SRCB-006 | 475 | 31 | 17 | 7 | 66 | <10 | 229 | 7 | 243 | 43 |
| SRCB-007 | 570 | 37 | 20 | 8 | 77 | <10 | 273 | 8 | 280 | 55 |
| SRCB-008 | 625 | 37 | 22 | 9 | 78 | <10 | 295 | 8 | 310 | 62 |
| SRCB-009 | 686 | 34 | 25 | 9 | 80 | <10 | 301 | 8 | 310 | 56 |
| SRCB-010 | 617 | 34 | 23 | 9 | 77 | <10 | 285 | 8 | 288 | 58 |
| SRCB-011 | 592 | 30 | 17 | 9 | 75 | <10 | 259 | 8 | 282 | 46 |
| SRCB-012 | 957 | 52 | 30 | 13 | 102 | <10 | 445 | 11 | 445 | 87 |
| SRCB-013 | 920 | 44 | 27 | 12 | 96 | <10 | 420 | 9 | 438 | 82 |
| SRCB-014 | 922 | 44 | 25 | 12 | 98 | <10 | 404 | 9 | 422 | 82 |
| SRCB-015 | 657 | 34 | 22 | 10 | 80 | <10 | 302 | 8 | 318 | 62 |
| SRCB-016 | 712 | 38 | 24 | 10 | 80 | <10 | 311 | 9 | 320 | 59 |
| SRCB-017 | 517 | 31 | 17 | 8 | 67 | <10 | 225 | 7 | 233 | 49 |
| SRCB-018 | 543 | 33 | 22 | 8 | 71 | <10 | 245 | 7 | 247 | 56 |
| SRCB-019 | 449 | 32 | 16 | 7 | 66 | <10 | 211 | 7 | 226 | 41 |
| SRCB-020 | 528 | 31 | 20 | 8 | 71 | <10 | 236 | 7 | 249 | 48 |
| SRCB-021 | 381 | 20 | 10 | 5 | 57 | <10 | 163 | 6 | 185 | 19 |
| SRCB-022 | 677 | 35 | 23 | 10 | 83 | <10 | 314 | 8 | 316 | 53 |
| SRCB-024 | 1276 | 40 | 17 | 19 | 106 | <10 | 542 | 8 | 634 | 125 |
| SRCB-025 | 516 | 34 | 20 | 8 | 68 | <10 | 231 | 7 | 241 | 44 |
| SRCB-026 | 517 | 27 | 16 | 8 | 68 | <10 | 230 | 7 | 256 | 47 |
| SRCB-027 | 579 | 31 | 18 | 9 | 74 | <10 | 265 | 7 | 277 | 50 |
| SRCB-028 | 590 | 32 | 22 | 9 | 73 | <10 | 260 | 7 | 285 | 51 |
| SRCB-029 | 614 | 35 | 21 | 8 | 73 | <10 | 264 | 8 | 269 | 49 |
| SRCB-030 | 567 | 32 | 23 | 7 | 70 | <10 | 243 | 7 | 254 | 46 |
| SRCB-031 | 535 | 32 | 20 | 8 | 73 | <10 | 246 | 8 | 261 | 42 |
| TRM-2 (RE Standard) | 29383 | 234 | 77 | 219 | 602 | 27 | 19580 | 10 | 8596 | 2782 |
| Expected Value | 29000 | 206 | 80 | 212 | 553 | 37 | 19300 | 8 | 8900 | 2800 |
| Confidence Level | ± 1200 | ± 32 | ± 8.5 | ± 16.2 | ± 83 | ± 7.4 | ± 1000 | ± 1.1 | ± 800 | ± 300 |

| Sample | mg/kg | | | | | | |
|---------------------|-------|-------|--------|------|-----|------|--------|
| | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB-001 | 42 | 57 | 17 | <100 | <10 | 166 | 24 |
| SRCB-002 | 43 | 67 | 19 | <100 | <10 | 175 | 26 |
| SRCB-003 | 45 | 82 | 19 | <100 | <10 | 182 | 27 |
| SRCB-004 | 41 | 62 | 17 | <100 | <10 | 158 | 23 |
| SRCB-005 | 42 | 60 | 19 | <100 | <10 | 161 | 23 |
| SRCB-006 | 38 | 53 | 15 | <100 | <10 | 155 | 23 |
| SRCB-007 | 43 | 56 | 20 | <100 | <10 | 174 | 25 |
| SRCB-008 | 40 | 66 | 19 | <100 | <10 | 175 | 25 |
| SRCB-009 | 41 | 63 | 18 | <100 | <10 | 186 | 27 |
| SRCB-010 | 43 | 61 | 19 | <100 | <10 | 182 | 26 |
| SRCB-011 | 43 | 54 | 17 | <100 | <10 | 158 | 23 |
| SRCB-012 | 42 | 91 | 23 | <100 | <10 | 247 | 38 |
| SRCB-013 | 40 | 89 | 20 | <100 | <10 | 209 | 31 |
| SRCB-014 | 40 | 87 | 20 | 103 | <10 | 213 | 31 |
| SRCB-015 | 40 | 63 | 18 | <100 | <10 | 169 | 25 |
| SRCB-016 | 43 | 64 | 20 | <100 | <10 | 189 | 28 |
| SRCB-017 | 42 | 50 | 17 | <100 | <10 | 148 | 21 |
| SRCB-018 | 44 | 54 | 17 | <100 | <10 | 168 | 24 |
| SRCB-019 | 42 | 47 | 17 | <100 | <10 | 143 | 20 |
| SRCB-020 | 44 | 50 | 16 | <100 | <10 | 163 | 24 |
| SRCB-021 | 40 | 35 | 9 | <100 | <10 | 112 | 16 |
| SRCB-022 | 44 | 64 | 21 | <100 | <10 | 183 | 28 |
| SRCB-024 | 16 | 128 | 18 | <100 | <10 | 152 | 22 |
| SRCB-025 | 43 | 47 | 14 | <100 | <10 | 157 | 23 |
| SRCB-026 | 39 | 53 | 15 | <100 | <10 | 137 | 21 |
| SRCB-027 | 43 | 52 | 17 | <100 | <10 | 148 | 22 |
| SRCB-028 | 43 | 56 | 17 | <100 | <10 | 158 | 23 |
| SRCB-029 | 44 | 57 | 16 | <100 | <10 | 176 | 26 |
| SRCB-030 | 42 | 50 | 16 | <100 | <10 | 167 | 25 |
| SRCB-031 | 42 | 50 | 17 | <100 | <10 | 167 | 25 |
| TRM-2 (RE Standard) | 10 | 1104 | 62 | 123 | <10 | 1005 | 62 |
| Expected Value | NA | 900 | 55 | 217 | NA | 959 | 55 |
| Confidence Level | NA | ± 300 | ± 14.2 | ± 40 | NA | ± 40 | ± 5.24 |

10-Jan-12

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

Re: results of REE analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|---------------|-------|----|----|----|----|-----|-----|----|-----|----|----|----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB-053 | 537 | 24 | 14 | 7 | 62 | <10 | 214 | 6 | 205 | 36 | 29 | 43 | 15 | <100 | <10 | 125 | 18 |
| SRCB-054 | 619 | 30 | 17 | 8 | 75 | <10 | 246 | 7 | 230 | 42 | 37 | 54 | 16 | <100 | <10 | 151 | 21 |
| SRCB-055 | 603 | 32 | 16 | 9 | 76 | <10 | 244 | 7 | 230 | 42 | 38 | 53 | 19 | <100 | <10 | 148 | 21 |
| SRCB-056 | 609 | 31 | 16 | 9 | 79 | <10 | 261 | 8 | 266 | 40 | 39 | 60 | 16 | <100 | <10 | 151 | 21 |
| SRCB-057 | 674 | 34 | 17 | 9 | 74 | <10 | 264 | 8 | 251 | 48 | 35 | 56 | 19 | <100 | <10 | 150 | 21 |
| SRCB-058 | 585 | 28 | 15 | 8 | 74 | <10 | 238 | 7 | 233 | 38 | 36 | 49 | 21 | <100 | <10 | 141 | 19 |
| SRCB-059 | 587 | 26 | 16 | 9 | 72 | <10 | 237 | 7 | 235 | 43 | 36 | 51 | 19 | <100 | <10 | 141 | 19 |
| SRCB-060 | 669 | 29 | 17 | 10 | 81 | <10 | 273 | 8 | 285 | 53 | 36 | 59 | 20 | <100 | <10 | 151 | 21 |
| SRCB-060 Dup. | 671 | 28 | 18 | 10 | 83 | <10 | 275 | 8 | 282 | 54 | 36 | 57 | 20 | <100 | <10 | 150 | 20 |
| SRCB-061 | 596 | 29 | 16 | 9 | 71 | <10 | 242 | 7 | 239 | 42 | 34 | 52 | 17 | <100 | <10 | 142 | 20 |
| SRCB-062 | 663 | 30 | 18 | 9 | 76 | <10 | 271 | 8 | 266 | 52 | 36 | 57 | 21 | <100 | <10 | 149 | 21 |
| SRCB-063 | 236 | <5 | 5 | <2 | 32 | <10 | 59 | <5 | 54 | <5 | <5 | 14 | 29 | <100 | <10 | 46 | 9 |
| SRCB-064 | 737 | 29 | 18 | 10 | 79 | <10 | 285 | 8 | 279 | 53 | 36 | 58 | 17 | <100 | <10 | 148 | 21 |
| SRCB-065 | 503 | 23 | 14 | 9 | 74 | <10 | 207 | 7 | 215 | 40 | 39 | 44 | 17 | <100 | <10 | 126 | 18 |
| SRCB-066 | 595 | 24 | 14 | 10 | 83 | <10 | 252 | 8 | 265 | 50 | 39 | 61 | 18 | <100 | <10 | 132 | 19 |
| SRCB-067 | 677 | 33 | 16 | 10 | 79 | <10 | 269 | 8 | 271 | 49 | 36 | 59 | 19 | <100 | <10 | 147 | 21 |
| SRCB-068 | 414 | 24 | 11 | 7 | 61 | <10 | 172 | 7 | 179 | 34 | 41 | 39 | 15 | <100 | <10 | 106 | 15 |
| SRCB-069 | 679 | 33 | 16 | 9 | 78 | <10 | 255 | 7 | 249 | 45 | 36 | 58 | 19 | <100 | <10 | 145 | 21 |
| SRCB-070 | 539 | 29 | 16 | 8 | 68 | <10 | 216 | 7 | 221 | 37 | 39 | 47 | 17 | <100 | <10 | 141 | 20 |
| SRCB-071 | 678 | 31 | 17 | 9 | 76 | <10 | 266 | 8 | 263 | 49 | 34 | 55 | 19 | <100 | <10 | 153 | 21 |
| SRCB-072 | 574 | 29 | 16 | 7 | 68 | <10 | 219 | 7 | 203 | 36 | 39 | 46 | 18 | <100 | <10 | 142 | 20 |
| SRCB-073 | 757 | 31 | 20 | 8 | 78 | <10 | 274 | 8 | 261 | 48 | 37 | 54 | 19 | <100 | <10 | 176 | 25 |

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|-----------|-------|----|----|----|-----|-----|-----|----|-----|-----|----|-----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB-074 | 823 | 36 | 20 | 9 | 80 | <10 | 295 | 8 | 275 | 52 | 36 | 57 | 22 | <100 | <10 | 179 | 26 |
| SRCB-075 | 436 | 21 | 11 | 8 | 68 | <10 | 174 | 7 | 187 | 36 | 40 | 44 | 11 | <100 | <10 | 112 | 15 |
| SRCB-076 | 511 | 26 | 14 | 8 | 71 | <10 | 206 | 7 | 220 | 40 | 38 | 46 | 15 | <100 | <10 | 121 | 17 |
| SRCB-077 | 511 | 30 | 14 | 8 | 66 | <10 | 209 | 7 | 208 | 36 | 32 | 44 | 17 | <100 | <10 | 121 | 17 |
| SRCB-078A | 462 | 25 | 13 | 8 | 65 | <10 | 199 | 6 | 204 | 40 | 33 | 42 | 14 | <100 | <10 | 118 | 16 |
| SRCB-078B | 599 | 28 | 16 | 9 | 75 | <10 | 240 | 8 | 241 | 45 | 37 | 49 | 19 | <100 | <10 | 148 | 21 |
| SRCB-079 | 49 | <5 | <5 | <2 | <5 | <10 | 18 | <5 | 25 | <5 | <5 | <5 | <5 | <100 | <10 | 5 | <2 |
| SRCB-080 | 1452 | 37 | 17 | 20 | 113 | <10 | 552 | 8 | 608 | 128 | 15 | 132 | 16 | <100 | <10 | 157 | 22 |
| SRCB-081 | 1256 | 49 | 29 | 13 | 108 | <10 | 436 | 11 | 405 | 86 | 42 | 90 | 26 | 121 | <10 | 243 | 35 |
| SRCB-085 | 765 | 30 | 17 | 9 | 78 | <10 | 295 | 7 | 279 | 50 | 34 | 61 | 17 | <100 | <10 | 152 | 22 |
| SRCB-086 | 978 | 44 | 23 | 11 | 96 | <10 | 356 | 9 | 343 | 76 | 38 | 75 | 22 | 107 | <10 | 204 | 29 |
| SRCB-087 | 608 | 28 | 16 | 8 | 70 | <10 | 230 | 6 | 226 | 39 | 33 | 53 | 17 | <100 | <10 | 140 | 20 |
| SRCB-088 | 608 | 27 | 16 | 7 | 61 | <10 | 225 | 6 | 212 | 38 | 27 | 43 | 14 | <100 | <10 | 134 | 19 |
| SRCB-089 | 799 | 35 | 18 | 10 | 80 | <10 | 295 | 9 | 284 | 54 | 35 | 64 | 20 | <100 | <10 | 169 | 24 |
| SRCB-090 | 1030 | 47 | 24 | 11 | 96 | <10 | 352 | 10 | 334 | 73 | 39 | 75 | 23 | <100 | <10 | 216 | 32 |
| SRCB-091 | 1027 | 45 | 30 | 11 | 95 | <10 | 352 | 10 | 334 | 60 | 40 | 73 | 22 | <100 | <10 | 216 | 32 |
| SRCB-092 | 970 | 40 | 22 | 11 | 93 | <10 | 345 | 9 | 332 | 67 | 40 | 69 | 22 | <100 | <10 | 203 | 29 |
| SRCB-093 | 928 | 36 | 20 | 11 | 90 | <10 | 346 | 8 | 339 | 71 | 33 | 76 | 19 | <100 | <10 | 173 | 24 |
| SRCB-094 | 947 | 43 | 24 | 10 | 91 | <10 | 335 | 9 | 314 | 60 | 42 | 69 | 22 | <100 | <10 | 209 | 30 |
| SRCB-095 | 1107 | 45 | 25 | 13 | 105 | <10 | 401 | 10 | 388 | 80 | 41 | 85 | 23 | <100 | <10 | 225 | 31 |
| SRCB-096 | 639 | 30 | 17 | 8 | 72 | <10 | 242 | 7 | 236 | 39 | 38 | 51 | 17 | <100 | <10 | 155 | 22 |
| SRCB-097 | 641 | 34 | 19 | 8 | 74 | <10 | 238 | 8 | 232 | 36 | 46 | 52 | 18 | <100 | <10 | 168 | 24 |
| SRCB-098 | 845 | 39 | 19 | 11 | 90 | <10 | 320 | 8 | 315 | 58 | 39 | 69 | 21 | <100 | <10 | 180 | 25 |
| SRCB-099 | 850 | 36 | 20 | 9 | 80 | <10 | 304 | 8 | 295 | 53 | 36 | 60 | 20 | <100 | <10 | 182 | 26 |
| SRCB-100 | 883 | 37 | 20 | 11 | 95 | <10 | 339 | 9 | 335 | 62 | 41 | 73 | 22 | <100 | <10 | 187 | 26 |
| SRCB-101 | 1039 | 49 | 26 | 11 | 93 | <10 | 367 | 10 | 355 | 72 | 40 | 79 | 21 | <100 | <10 | 217 | 31 |
| SRCB-102 | 876 | 39 | 20 | 11 | 91 | <10 | 320 | 9 | 320 | 59 | 40 | 68 | 21 | 129 | <10 | 185 | 26 |
| SRCB-103 | 590 | 30 | 19 | 8 | 70 | <10 | 222 | 7 | 220 | 39 | 44 | 44 | 20 | <100 | <10 | 165 | 23 |
| SRCB-104 | 54 | <5 | <5 | <2 | <5 | <10 | 18 | <5 | 21 | <5 | <5 | 8 | <5 | <100 | <10 | 6 | <2 |
| SRCB-105 | 2610 | 67 | 43 | 23 | 171 | <10 | 860 | 16 | 833 | 183 | 27 | 176 | 31 | 158 | <10 | 337 | 50 |
| SRCB-106 | 719 | 31 | 19 | 8 | 72 | <10 | 259 | 7 | 244 | 45 | 32 | 50 | 17 | <100 | <10 | 158 | 23 |
| SRCB-107 | 870 | 38 | 22 | 10 | 88 | <10 | 308 | 9 | 288 | 55 | 40 | 65 | 21 | <100 | <10 | 199 | 28 |

Daniel Chevalier, MASc
Manager, Minerals Engineering Centre

QA/QC Results

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|------------------------|--------|------|-------|--------|------|-------|--------|-------|-------|-------|-------|-------|--------|------|-----|-------|--------|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| TRM-2 (RE Standard) | 29459 | 256 | 68 | 209 | 569 | 53 | 18331 | 10 | 7762 | 2552 | 8.152 | 1017 | 50.56 | 178 | <10 | 942.7 | 55.16 |
| Expected Value | 29000 | 206 | 80 | 212 | 553 | 37 | 19300 | 8 | 8900 | 2800 | NA | 900 | 55 | 217 | NA | 959 | 55 |
| Confidence Level | ± 1200 | ± 32 | ± 8.5 | ± 16.2 | ± 83 | ± 7.4 | ± 1000 | ± 1.1 | ± 800 | ± 300 | NA | ± 300 | ± 14.2 | ± 40 | NA | ± 40 | ± 5.24 |
| B. River In-house Std. | 927 | 64 | 38 | 7 | 113 | 12 | 479 | 8 | 432 | 102 | 6 | 93 | 14 | <100 | <10 | 345 | 32 |
| Expected Value | 938 | 64 | 35 | 6.8 | 82 | 13 | 450 | 4.5 | 408 | 108 | 6.0 | 77 | 12 | 26 | 4.7 | 345 | 29 |

10-Jan-12

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

Re: results of REE analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|---------------|-------|----|----|----|----|-----|-----|----|-----|----|----|----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB-053 | 537 | 24 | 14 | 7 | 62 | <10 | 214 | 6 | 205 | 36 | 29 | 43 | 15 | <100 | <10 | 125 | 18 |
| SRCB-054 | 619 | 30 | 17 | 8 | 75 | <10 | 246 | 7 | 230 | 42 | 37 | 54 | 16 | <100 | <10 | 151 | 21 |
| SRCB-055 | 603 | 32 | 16 | 9 | 76 | <10 | 244 | 7 | 230 | 42 | 38 | 53 | 19 | <100 | <10 | 148 | 21 |
| SRCB-056 | 609 | 31 | 16 | 9 | 79 | <10 | 261 | 8 | 266 | 40 | 39 | 60 | 16 | <100 | <10 | 151 | 21 |
| SRCB-057 | 674 | 34 | 17 | 9 | 74 | <10 | 264 | 8 | 251 | 48 | 35 | 56 | 19 | <100 | <10 | 150 | 21 |
| SRCB-058 | 585 | 28 | 15 | 8 | 74 | <10 | 238 | 7 | 233 | 38 | 36 | 49 | 21 | <100 | <10 | 141 | 19 |
| SRCB-059 | 587 | 26 | 16 | 9 | 72 | <10 | 237 | 7 | 235 | 43 | 36 | 51 | 19 | <100 | <10 | 141 | 19 |
| SRCB-060 | 669 | 29 | 17 | 10 | 81 | <10 | 273 | 8 | 285 | 53 | 36 | 59 | 20 | <100 | <10 | 151 | 21 |
| SRCB-060 Dup. | 671 | 28 | 18 | 10 | 83 | <10 | 275 | 8 | 282 | 54 | 36 | 57 | 20 | <100 | <10 | 150 | 20 |
| SRCB-061 | 596 | 29 | 16 | 9 | 71 | <10 | 242 | 7 | 239 | 42 | 34 | 52 | 17 | <100 | <10 | 142 | 20 |
| SRCB-062 | 663 | 30 | 18 | 9 | 76 | <10 | 271 | 8 | 266 | 52 | 36 | 57 | 21 | <100 | <10 | 149 | 21 |
| SRCB-063 | 236 | <5 | 5 | <2 | 32 | <10 | 59 | <5 | 54 | <5 | <5 | 14 | 29 | <100 | <10 | 46 | 9 |
| SRCB-064 | 737 | 29 | 18 | 10 | 79 | <10 | 285 | 8 | 279 | 53 | 36 | 58 | 17 | <100 | <10 | 148 | 21 |
| SRCB-065 | 503 | 23 | 14 | 9 | 74 | <10 | 207 | 7 | 215 | 40 | 39 | 44 | 17 | <100 | <10 | 126 | 18 |
| SRCB-066 | 595 | 24 | 14 | 10 | 83 | <10 | 252 | 8 | 265 | 50 | 39 | 61 | 18 | <100 | <10 | 132 | 19 |
| SRCB-067 | 677 | 33 | 16 | 10 | 79 | <10 | 269 | 8 | 271 | 49 | 36 | 59 | 19 | <100 | <10 | 147 | 21 |
| SRCB-068 | 414 | 24 | 11 | 7 | 61 | <10 | 172 | 7 | 179 | 34 | 41 | 39 | 15 | <100 | <10 | 106 | 15 |
| SRCB-069 | 679 | 33 | 16 | 9 | 78 | <10 | 255 | 7 | 249 | 45 | 36 | 58 | 19 | <100 | <10 | 145 | 21 |
| SRCB-070 | 539 | 29 | 16 | 8 | 68 | <10 | 216 | 7 | 221 | 37 | 39 | 47 | 17 | <100 | <10 | 141 | 20 |
| SRCB-071 | 678 | 31 | 17 | 9 | 76 | <10 | 266 | 8 | 263 | 49 | 34 | 55 | 19 | <100 | <10 | 153 | 21 |
| SRCB-072 | 574 | 29 | 16 | 7 | 68 | <10 | 219 | 7 | 203 | 36 | 39 | 46 | 18 | <100 | <10 | 142 | 20 |
| SRCB-073 | 757 | 31 | 20 | 8 | 78 | <10 | 274 | 8 | 261 | 48 | 37 | 54 | 19 | <100 | <10 | 176 | 25 |

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|-----------|-------|----|----|----|-----|-----|-----|----|-----|-----|----|-----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB-074 | 823 | 36 | 20 | 9 | 80 | <10 | 295 | 8 | 275 | 52 | 36 | 57 | 22 | <100 | <10 | 179 | 26 |
| SRCB-075 | 436 | 21 | 11 | 8 | 68 | <10 | 174 | 7 | 187 | 36 | 40 | 44 | 11 | <100 | <10 | 112 | 15 |
| SRCB-076 | 511 | 26 | 14 | 8 | 71 | <10 | 206 | 7 | 220 | 40 | 38 | 46 | 15 | <100 | <10 | 121 | 17 |
| SRCB-077 | 511 | 30 | 14 | 8 | 66 | <10 | 209 | 7 | 208 | 36 | 32 | 44 | 17 | <100 | <10 | 121 | 17 |
| SRCB-078A | 462 | 25 | 13 | 8 | 65 | <10 | 199 | 6 | 204 | 40 | 33 | 42 | 14 | <100 | <10 | 118 | 16 |
| SRCB-078B | 599 | 28 | 16 | 9 | 75 | <10 | 240 | 8 | 241 | 45 | 37 | 49 | 19 | <100 | <10 | 148 | 21 |
| SRCB-079 | 49 | <5 | <5 | <2 | <5 | <10 | 18 | <5 | 25 | <5 | <5 | <5 | <5 | <100 | <10 | 5 | <2 |
| SRCB-080 | 1452 | 37 | 17 | 20 | 113 | <10 | 552 | 8 | 608 | 128 | 15 | 132 | 16 | <100 | <10 | 157 | 22 |
| SRCB-081 | 1256 | 49 | 29 | 13 | 108 | <10 | 436 | 11 | 405 | 86 | 42 | 90 | 26 | 121 | <10 | 243 | 35 |
| SRCB-085 | 765 | 30 | 17 | 9 | 78 | <10 | 295 | 7 | 279 | 50 | 34 | 61 | 17 | <100 | <10 | 152 | 22 |
| SRCB-086 | 978 | 44 | 23 | 11 | 96 | <10 | 356 | 9 | 343 | 76 | 38 | 75 | 22 | 107 | <10 | 204 | 29 |
| SRCB-087 | 608 | 28 | 16 | 8 | 70 | <10 | 230 | 6 | 226 | 39 | 33 | 53 | 17 | <100 | <10 | 140 | 20 |
| SRCB-088 | 608 | 27 | 16 | 7 | 61 | <10 | 225 | 6 | 212 | 38 | 27 | 43 | 14 | <100 | <10 | 134 | 19 |
| SRCB-089 | 799 | 35 | 18 | 10 | 80 | <10 | 295 | 9 | 284 | 54 | 35 | 64 | 20 | <100 | <10 | 169 | 24 |
| SRCB-090 | 1030 | 47 | 24 | 11 | 96 | <10 | 352 | 10 | 334 | 73 | 39 | 75 | 23 | <100 | <10 | 216 | 32 |
| SRCB-091 | 1027 | 45 | 30 | 11 | 95 | <10 | 352 | 10 | 334 | 60 | 40 | 73 | 22 | <100 | <10 | 216 | 32 |
| SRCB-092 | 970 | 40 | 22 | 11 | 93 | <10 | 345 | 9 | 332 | 67 | 40 | 69 | 22 | <100 | <10 | 203 | 29 |
| SRCB-093 | 928 | 36 | 20 | 11 | 90 | <10 | 346 | 8 | 339 | 71 | 33 | 76 | 19 | <100 | <10 | 173 | 24 |
| SRCB-094 | 947 | 43 | 24 | 10 | 91 | <10 | 335 | 9 | 314 | 60 | 42 | 69 | 22 | <100 | <10 | 209 | 30 |
| SRCB-095 | 1107 | 45 | 25 | 13 | 105 | <10 | 401 | 10 | 388 | 80 | 41 | 85 | 23 | <100 | <10 | 225 | 31 |
| SRCB-096 | 639 | 30 | 17 | 8 | 72 | <10 | 242 | 7 | 236 | 39 | 38 | 51 | 17 | <100 | <10 | 155 | 22 |
| SRCB-097 | 641 | 34 | 19 | 8 | 74 | <10 | 238 | 8 | 232 | 36 | 46 | 52 | 18 | <100 | <10 | 168 | 24 |
| SRCB-098 | 845 | 39 | 19 | 11 | 90 | <10 | 320 | 8 | 315 | 58 | 39 | 69 | 21 | <100 | <10 | 180 | 25 |
| SRCB-099 | 850 | 36 | 20 | 9 | 80 | <10 | 304 | 8 | 295 | 53 | 36 | 60 | 20 | <100 | <10 | 182 | 26 |
| SRCB-100 | 883 | 37 | 20 | 11 | 95 | <10 | 339 | 9 | 335 | 62 | 41 | 73 | 22 | <100 | <10 | 187 | 26 |
| SRCB-101 | 1039 | 49 | 26 | 11 | 93 | <10 | 367 | 10 | 355 | 72 | 40 | 79 | 21 | <100 | <10 | 217 | 31 |
| SRCB-102 | 876 | 39 | 20 | 11 | 91 | <10 | 320 | 9 | 320 | 59 | 40 | 68 | 21 | 129 | <10 | 185 | 26 |
| SRCB-103 | 590 | 30 | 19 | 8 | 70 | <10 | 222 | 7 | 220 | 39 | 44 | 44 | 20 | <100 | <10 | 165 | 23 |
| SRCB-104 | 54 | <5 | <5 | <2 | <5 | <10 | 18 | <5 | 21 | <5 | <5 | 8 | <5 | <100 | <10 | 6 | <2 |
| SRCB-105 | 2610 | 67 | 43 | 23 | 171 | <10 | 860 | 16 | 833 | 183 | 27 | 176 | 31 | 158 | <10 | 337 | 50 |
| SRCB-106 | 719 | 31 | 19 | 8 | 72 | <10 | 259 | 7 | 244 | 45 | 32 | 50 | 17 | <100 | <10 | 158 | 23 |
| SRCB-107 | 870 | 38 | 22 | 10 | 88 | <10 | 308 | 9 | 288 | 55 | 40 | 65 | 21 | <100 | <10 | 199 | 28 |

Daniel Chevalier, MASc
Manager, Minerals Engineering Centre

QA/QC Results

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|------------------------|--------|------|-------|--------|------|-------|--------|-------|-------|-------|-------|-------|--------|------|-----|-------|--------|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| TRM-2 (RE Standard) | 29459 | 256 | 68 | 209 | 569 | 53 | 18331 | 10 | 7762 | 2552 | 8.152 | 1017 | 50.56 | 178 | <10 | 942.7 | 55.16 |
| Expected Value | 29000 | 206 | 80 | 212 | 553 | 37 | 19300 | 8 | 8900 | 2800 | NA | 900 | 55 | 217 | NA | 959 | 55 |
| Confidence Level | ± 1200 | ± 32 | ± 8.5 | ± 16.2 | ± 83 | ± 7.4 | ± 1000 | ± 1.1 | ± 800 | ± 300 | NA | ± 300 | ± 14.2 | ± 40 | NA | ± 40 | ± 5.24 |
| B. River In-house Std. | 927 | 64 | 38 | 7 | 113 | 12 | 479 | 8 | 432 | 102 | 6 | 93 | 14 | <100 | <10 | 345 | 32 |
| Expected Value | 938 | 64 | 35 | 6.8 | 82 | 13 | 450 | 4.5 | 408 | 108 | 6.0 | 77 | 12 | 26 | 4.7 | 345 | 29 |

21-Feb-12

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

Re: results of REE analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|-----------|-------|----|----|----|-----|-----|-----|----|-----|-----|----|-----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB -082 | 719 | 31 | 21 | 8 | 70 | <10 | 248 | 7 | 250 | 43 | 38 | 50 | 18 | <100 | <10 | 160 | 23 |
| SRCB -083 | 799 | 33 | 21 | 9 | 75 | <10 | 281 | 8 | 274 | 49 | 40 | 60 | 18 | <100 | <10 | 168 | 24 |
| SRCB -084 | 802 | 31 | 22 | 8 | 67 | <10 | 252 | 7 | 244 | 46 | 37 | 49 | 15 | <100 | <10 | 164 | 24 |
| SRCB -263 | 1522 | 33 | 16 | 20 | 105 | <10 | 533 | 7 | 614 | 125 | 16 | 127 | 16 | <100 | <10 | 144 | 20 |
| SRCB -264 | 1906 | 56 | 35 | 14 | 119 | <10 | 566 | 11 | 543 | 111 | 42 | 112 | 24 | 167 | <10 | 271 | 40 |
| SRCB -265 | 1328 | 43 | 27 | 11 | 94 | <10 | 416 | 9 | 403 | 81 | 39 | 82 | 19 | 126 | <10 | 216 | 32 |
| SRCB -266 | 1191 | 41 | 25 | 11 | 92 | <10 | 391 | 9 | 382 | 76 | 42 | 74 | 22 | 134 | <10 | 207 | 30 |
| SRCB -267 | 947 | 41 | 27 | 10 | 81 | <10 | 321 | 8 | 312 | 56 | 44 | 60 | 20 | 125 | <10 | 199 | 28 |
| SRCB -268 | 979 | 42 | 23 | 11 | 84 | <10 | 337 | 9 | 336 | 66 | 44 | 68 | 20 | 100 | <10 | 197 | 28 |
| SRCB -269 | 761 | 34 | 22 | 9 | 74 | <10 | 283 | 7 | 277 | 55 | 40 | 51 | 19 | 108 | <10 | 164 | 23 |
| SRCB -270 | 792 | 35 | 20 | 9 | 78 | <10 | 291 | 8 | 285 | 59 | 41 | 58 | 19 | <100 | <10 | 166 | 24 |
| SRCB -271 | 699 | 32 | 21 | 9 | 72 | <10 | 254 | 7 | 263 | 52 | 36 | 52 | 18 | <100 | <10 | 152 | 22 |
| SRCB -272 | 736 | 35 | 20 | 9 | 76 | <10 | 273 | 7 | 276 | 57 | 40 | 57 | 19 | <100 | <10 | 162 | 23 |
| SRCB -273 | 663 | 27 | 17 | 8 | 69 | <10 | 248 | 7 | 243 | 43 | 36 | 50 | 15 | 106 | <10 | 145 | 21 |
| SRCB -274 | 1017 | 35 | 23 | 11 | 88 | <10 | 353 | 8 | 340 | 65 | 43 | 68 | 19 | <100 | <10 | 195 | 28 |
| SRCB -275 | 750 | 30 | 19 | 8 | 67 | <10 | 251 | 7 | 246 | 49 | 38 | 48 | 15 | <100 | <10 | 153 | 22 |
| SRCB -276 | 789 | 31 | 20 | 9 | 73 | <10 | 272 | 7 | 269 | 54 | 38 | 57 | 18 | <100 | <10 | 158 | 23 |
| SRCB -277 | 795 | 36 | 20 | 9 | 76 | <10 | 272 | 7 | 265 | 47 | 42 | 53 | 19 | <100 | <10 | 175 | 25 |
| SRCB -278 | 689 | 29 | 18 | 9 | 68 | <10 | 245 | 7 | 246 | 53 | 37 | 52 | 17 | <100 | <10 | 152 | 22 |
| SRCB -279 | 733 | 27 | 18 | 9 | 72 | <10 | 263 | 7 | 269 | 48 | 40 | 50 | 18 | <100 | <10 | 160 | 23 |

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|---------------|-------|----|----|----|-----|-----|-----|----|-----|-----|----|-----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB -280 | 888 | 36 | 23 | 9 | 72 | <10 | 285 | 8 | 275 | 55 | 37 | 58 | 15 | <100 | <10 | 180 | 26 |
| SRCB -280 Dup | 1007 | 40 | 26 | 10 | 82 | <10 | 322 | 9 | 311 | 65 | 42 | 64 | 18 | 104 | <10 | 206 | 30 |
| SRCB -281 | 1103 | 45 | 28 | 10 | 84 | <10 | 333 | 9 | 320 | 67 | 45 | 69 | 19 | 102 | <10 | 222 | 33 |
| SRCB -282 | 1111 | 41 | 24 | 11 | 87 | <10 | 356 | 9 | 346 | 73 | 39 | 67 | 19 | <100 | <10 | 205 | 30 |
| SRCB -283 | 1291 | 44 | 32 | 12 | 93 | <10 | 386 | 10 | 383 | 72 | 45 | 75 | 20 | 111 | <10 | 235 | 35 |
| SRCB -284 | 1019 | 37 | 25 | 10 | 84 | <10 | 332 | 8 | 326 | 57 | 40 | 64 | 19 | 101 | <10 | 199 | 29 |
| SRCB -285 | 894 | 37 | 24 | 10 | 79 | <10 | 304 | 8 | 297 | 58 | 41 | 66 | 18 | 104 | <10 | 182 | 26 |
| SRCB -286 | 977 | 43 | 25 | 11 | 86 | <10 | 333 | 9 | 331 | 58 | 44 | 69 | 20 | <100 | <10 | 200 | 29 |
| SRCB -287 | 828 | 35 | 23 | 9 | 79 | <10 | 292 | 8 | 287 | 53 | 41 | 59 | 18 | <100 | <10 | 175 | 25 |
| SRCB -288 | 857 | 37 | 22 | 10 | 84 | <10 | 311 | 8 | 304 | 56 | 44 | 61 | 22 | <100 | <10 | 184 | 26 |
| SRCB -289 | 779 | 31 | 19 | 9 | 75 | <10 | 288 | 7 | 297 | 52 | 36 | 58 | 17 | <100 | <10 | 155 | 22 |
| SRCB -290 | 857 | 35 | 22 | 9 | 77 | <10 | 300 | 8 | 296 | 57 | 39 | 56 | 17 | <100 | <10 | 175 | 25 |
| SRCB -291 | 800 | 34 | 23 | 10 | 77 | <10 | 282 | 8 | 283 | 53 | 41 | 57 | 18 | <100 | <10 | 173 | 25 |
| SRCB -292 | 766 | 32 | 20 | 10 | 76 | <10 | 279 | 8 | 288 | 56 | 38 | 60 | 18 | <100 | <10 | 153 | 22 |
| SRCB -293 | 608 | 24 | 13 | 8 | 65 | <10 | 227 | 6 | 231 | 42 | 33 | 48 | 13 | <100 | <10 | 125 | 18 |
| SRCB -294 | 32 | <5 | <5 | <2 | <5 | <10 | 22 | <5 | 12 | <5 | <5 | <5 | <5 | <100 | <10 | 5 | <2 |
| SRCB -295 | 2894 | 67 | 42 | 23 | 161 | <10 | 853 | 15 | 866 | 180 | 30 | 179 | 25 | 215 | <10 | 333 | 51 |
| SRCB -296 | 949 | 35 | 18 | 15 | 97 | <10 | 373 | 8 | 419 | 82 | 35 | 86 | 18 | <100 | <10 | 154 | 22 |
| SRCB -297 | 555 | 22 | 14 | 9 | 67 | <10 | 226 | 6 | 241 | 44 | 33 | 47 | 14 | <100 | <10 | 127 | 17 |
| SRCB -298 | 679 | 28 | 14 | 10 | 77 | <10 | 266 | 7 | 294 | 55 | 37 | 62 | 15 | <100 | <10 | 136 | 19 |
| SRCB -299 | 848 | 29 | 19 | 13 | 88 | <10 | 332 | 8 | 359 | 70 | 36 | 73 | 18 | <100 | <10 | 153 | 22 |
| SRCB -300 | 726 | 30 | 16 | 10 | 77 | <10 | 267 | 7 | 284 | 49 | 37 | 58 | 16 | <100 | <10 | 144 | 20 |
| SRCB -300 Dup | 710 | 27 | 16 | 10 | 73 | <10 | 263 | 7 | 278 | 51 | 37 | 59 | 16 | <100 | <10 | 144 | 20 |
| SRCB -301 | 746 | 30 | 19 | 9 | 76 | <10 | 271 | 7 | 269 | 53 | 41 | 56 | 17 | <100 | <10 | 157 | 23 |
| SRCB -302 | 764 | 34 | 21 | 9 | 77 | <10 | 265 | 8 | 272 | 48 | 41 | 56 | 17 | <100 | <10 | 162 | 24 |
| SRCB -303 | 547 | 30 | 17 | 8 | 66 | <10 | 209 | 7 | 206 | 36 | 38 | 43 | 15 | <100 | <10 | 146 | 20 |
| SRCB -304 | 595 | 28 | 15 | 8 | 69 | <10 | 216 | 7 | 227 | 37 | 38 | 47 | 15 | <100 | <10 | 141 | 20 |
| SRCB -305 | 654 | 31 | 16 | 8 | 71 | <10 | 251 | 7 | 263 | 53 | 37 | 53 | 16 | <100 | <10 | 147 | 21 |
| SRCB -306 | 333 | 17 | 10 | 6 | 56 | <10 | 129 | 6 | 143 | 20 | 38 | 25 | 9 | <100 | <10 | 90 | 12 |
| SRCB -307 | 421 | 18 | 11 | 6 | 57 | <10 | 134 | 6 | 152 | 22 | 39 | 29 | 7 | <100 | <10 | 108 | 14 |
| SRCB -308 | 814 | 30 | 17 | 10 | 73 | <10 | 271 | 7 | 278 | 52 | 30 | 53 | 14 | <100 | <10 | 152 | 22 |
| SRCB -309 | 353 | 16 | 8 | 6 | 55 | <10 | 140 | 5 | 153 | 24 | 38 | 32 | 8 | <100 | <10 | 86 | 12 |
| SRCB -310 | 739 | 35 | 19 | 9 | 73 | <10 | 259 | 7 | 265 | 55 | 37 | 54 | 16 | <100 | <10 | 159 | 23 |
| SRCB -311 | 542 | 27 | 15 | 7 | 64 | <10 | 200 | 7 | 199 | 34 | 39 | 41 | 15 | <100 | <10 | 132 | 19 |
| SRCB -312 | 504 | 20 | 14 | 7 | 61 | <10 | 186 | 6 | 194 | 31 | 35 | 36 | 12 | <100 | <10 | 125 | 18 |

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|---------------|-------|----|----|----|----|-----|-----|----|-----|----|----|----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB -313 | 659 | 30 | 17 | 9 | 73 | <10 | 240 | 7 | 247 | 44 | 42 | 53 | 16 | <100 | <10 | 148 | 21 |
| SRCB -314 | 619 | 30 | 16 | 8 | 66 | <10 | 216 | 7 | 220 | 42 | 39 | 40 | 16 | <100 | <10 | 146 | 21 |
| SRCB -315 | 676 | 29 | 16 | 9 | 73 | <10 | 255 | 7 | 270 | 53 | 36 | 55 | 16 | <100 | <10 | 139 | 20 |
| SRCB -316 | 826 | 35 | 22 | 10 | 79 | <10 | 300 | 8 | 310 | 65 | 38 | 62 | 19 | <100 | <10 | 173 | 24 |
| SRCB -317 | 694 | 31 | 17 | 10 | 77 | <10 | 270 | 7 | 283 | 50 | 37 | 61 | 19 | <100 | <10 | 149 | 21 |
| SRCB -317 Dup | 690 | 31 | 21 | 11 | 75 | <10 | 266 | 7 | 285 | 59 | 37 | 55 | 18 | <100 | <10 | 145 | 21 |
| SRCB -318 | 602 | 28 | 15 | 9 | 73 | <10 | 239 | 7 | 256 | 46 | 38 | 50 | 17 | 110 | <10 | 142 | 20 |

Daniel Chevalier, MASc
Manager, Minerals Engineering Centre

QA/QC Results

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|------------------------|--------|------|-------|--------|------|-------|--------|-------|-------|-------|-----|-------|--------|------|-----|------|--------|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| TRM-2 (RE Standard) | 30250 | 220 | 73 | 210 | 565 | 31 | 18468 | 10 | 8154 | 2669 | 8 | 1052 | 60 | 239 | <10 | 924 | 55 |
| Expected Value | 29000 | 206 | 80 | 212 | 553 | 37 | 19300 | 8 | 8900 | 2800 | NA | 900 | 55 | 217 | NA | 959 | 55 |
| Confidence Level | ± 1200 | ± 32 | ± 8.5 | ± 16.2 | ± 83 | ± 7.4 | ± 1000 | ± 1.1 | ± 800 | ± 300 | NA | ± 300 | ± 14.2 | ± 40 | NA | ± 40 | ± 5.24 |
| B. River In-house Std. | 940 | 63 | 39 | 7 | 110 | <10 | 483 | 8 | 430 | 106 | 6 | 89 | 12 | <100 | <10 | 342 | 32 |
| Expected Value | 938 | 64 | 35 | 6.8 | 82 | 13 | 450 | 4.5 | 408 | 108 | 6.0 | 77 | 12 | 26 | 4.7 | 345 | 29 |

20-Feb-12

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

Re: results of REE analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|---------------|-------|----|----|----|-----|-----|-----|----|-----|-----|----|-----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB -108 | 735 | 31 | 24 | 11 | 81 | <10 | 345 | 9 | 344 | 62 | 41 | 74 | 28 | <100 | <10 | 193 | 28 |
| SRCB -109 | 664 | 32 | 27 | 9 | 79 | <10 | 316 | 9 | 312 | 67 | 44 | 67 | 27 | <100 | <10 | 190 | 28 |
| SRCB -110 | 887 | 35 | 28 | 12 | 88 | <10 | 413 | 9 | 408 | 83 | 39 | 90 | 30 | 102 | <10 | 203 | 30 |
| SRCB -111 | 920 | 37 | 29 | 12 | 94 | <10 | 426 | 9 | 422 | 82 | 40 | 92 | 29 | <100 | <10 | 205 | 30 |
| SRCB -112 | 729 | 35 | 27 | 10 | 80 | <10 | 344 | 9 | 332 | 58 | 41 | 74 | 28 | <100 | <10 | 202 | 30 |
| SRCB -113 | 827 | 37 | 30 | 11 | 84 | <10 | 369 | 9 | 370 | 73 | 44 | 74 | 31 | <100 | <10 | 213 | 31 |
| SRCB -113 B | 1125 | 45 | 32 | 14 | 106 | <10 | 506 | 11 | 514 | 95 | 39 | 111 | 32 | <100 | <10 | 239 | 36 |
| SRCB -114 | 780 | 31 | 28 | 11 | 85 | <10 | 357 | 9 | 350 | 69 | 41 | 72 | 29 | 107 | <10 | 200 | 30 |
| SRCB -114B | 702 | 30 | 24 | 10 | 81 | <10 | 331 | 8 | 322 | 61 | 41 | 70 | 24 | <100 | <10 | 181 | 27 |
| SRCB -115 | 729 | 29 | 23 | 10 | 78 | <10 | 326 | 8 | 345 | 63 | 38 | 66 | 26 | <100 | <10 | 158 | 23 |
| SRCB -115B | 1621 | 55 | 40 | 18 | 139 | <10 | 731 | 14 | 727 | 146 | 36 | 149 | 30 | 144 | <10 | 294 | 45 |
| SRCB -116 | 992 | 41 | 31 | 13 | 99 | <10 | 449 | 10 | 452 | 88 | 39 | 93 | 29 | <100 | <10 | 227 | 34 |
| SRCB -117 | 967 | 39 | 28 | 12 | 95 | <10 | 443 | 10 | 445 | 86 | 40 | 99 | 27 | <100 | <10 | 213 | 31 |
| SRCB -118 | 1092 | 39 | 30 | 14 | 103 | <10 | 487 | 10 | 496 | 93 | 38 | 105 | 27 | <100 | <10 | 221 | 32 |
| SRCB -119 | 964 | 36 | 27 | 13 | 92 | <10 | 429 | 10 | 435 | 90 | 40 | 97 | 28 | <100 | <10 | 201 | 30 |
| SRCB -120 | 717 | 31 | 24 | 10 | 79 | <10 | 325 | 8 | 334 | 58 | 39 | 72 | 28 | <100 | <10 | 171 | 25 |
| SRCB -120 Dup | 696 | 29 | 23 | 10 | 74 | <10 | 310 | 8 | 326 | 56 | 38 | 70 | 26 | <100 | <10 | 164 | 24 |
| SRCB -121 | 731 | 27 | 23 | 11 | 80 | <10 | 330 | 8 | 360 | 66 | 40 | 75 | 20 | <100 | <10 | 171 | 25 |
| SRCB -122 | 1319 | 28 | 21 | 19 | 104 | <10 | 555 | 8 | 641 | 126 | 16 | 142 | 19 | <100 | <10 | 157 | 22 |
| SRCB -123 | 724 | 34 | 28 | 10 | 81 | <10 | 340 | 9 | 343 | 72 | 40 | 74 | 26 | <100 | <10 | 196 | 29 |
| SRCB -124 | 659 | 31 | 24 | 9 | 73 | <10 | 301 | 8 | 296 | 54 | 41 | 60 | 25 | <100 | <10 | 188 | 27 |
| SRCB -125 | 692 | 34 | 23 | 10 | 78 | <10 | 325 | 9 | 326 | 70 | 42 | 68 | 27 | <100 | <10 | 200 | 29 |

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|--------------|-------|----|----|----|----|-----|-----|----|-----|----|----|-----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB -126 | 752 | 36 | 26 | 11 | 85 | <10 | 352 | 9 | 347 | 74 | 43 | 75 | 27 | <100 | <10 | 207 | 30 |
| SRCB -127 | 911 | 36 | 27 | 12 | 94 | <10 | 414 | 9 | 416 | 81 | 38 | 91 | 29 | <100 | <10 | 204 | 30 |
| SRCB -128 | 951 | 39 | 29 | 13 | 93 | <10 | 442 | 10 | 436 | 88 | 41 | 94 | 29 | <100 | <10 | 220 | 33 |
| SRCB -129 | 1002 | 42 | 31 | 13 | 96 | <10 | 455 | 10 | 450 | 92 | 40 | 102 | 31 | <100 | <10 | 233 | 35 |
| SRCB -130 | 656 | 32 | 25 | 9 | 79 | <10 | 295 | 9 | 293 | 59 | 44 | 61 | 24 | <100 | <10 | 186 | 27 |
| SRCB -131 | 636 | 22 | 19 | 9 | 69 | <10 | 265 | 7 | 277 | 59 | 41 | 61 | 18 | <100 | <10 | 146 | 21 |
| SRCB -132 | 1040 | 29 | 22 | 15 | 99 | <10 | 434 | 9 | 494 | 92 | 35 | 107 | 22 | <100 | <10 | 172 | 25 |
| SRCB -133 | 591 | 29 | 22 | 10 | 76 | <10 | 275 | 8 | 278 | 57 | 41 | 61 | 26 | <100 | <10 | 163 | 23 |
| SRCB -134 | 661 | 29 | 24 | 9 | 76 | <10 | 304 | 8 | 317 | 66 | 40 | 68 | 25 | <100 | <10 | 171 | 25 |
| SRCB -135 | 585 | 30 | 21 | 8 | 70 | <10 | 262 | 8 | 267 | 46 | 38 | 56 | 26 | <100 | <10 | 158 | 23 |
| SRCB -136 | 617 | 26 | 20 | 9 | 72 | <10 | 279 | 7 | 287 | 52 | 40 | 57 | 25 | <100 | <10 | 153 | 22 |
| SRCB -137 | 587 | 28 | 21 | 9 | 69 | <10 | 270 | 7 | 274 | 46 | 39 | 53 | 24 | <100 | <10 | 157 | 23 |
| SRCB -138 | 536 | 25 | 16 | 9 | 67 | <10 | 240 | 7 | 262 | 44 | 38 | 56 | 19 | <100 | <10 | 135 | 18 |
| SRCB -139 | 388 | 19 | 16 | 6 | 57 | <10 | 182 | 6 | 191 | 39 | 40 | 41 | 23 | <100 | <10 | 122 | 17 |
| SRCB -140 | 486 | 23 | 17 | 8 | 63 | <10 | 221 | 7 | 234 | 40 | 43 | 49 | 21 | <100 | <10 | 140 | 20 |
| SRCB -141 | 434 | 26 | 17 | 7 | 56 | <10 | 207 | 6 | 197 | 29 | 41 | 32 | 24 | <100 | <10 | 134 | 19 |
| SRCB -141Dup | 453 | 26 | 19 | 7 | 64 | <10 | 221 | 7 | 223 | 49 | 44 | 42 | 25 | <100 | <10 | 149 | 21 |
| SRCB -142 | 510 | 30 | 21 | 8 | 65 | <10 | 235 | 7 | 235 | 37 | 43 | 51 | 24 | <100 | <10 | 159 | 23 |
| SRCB -143 | 571 | 27 | 22 | 8 | 68 | <10 | 262 | 7 | 259 | 59 | 39 | 56 | 25 | <100 | <10 | 164 | 23 |
| SRCB -144 | 547 | 29 | 19 | 9 | 68 | <10 | 259 | 7 | 261 | 47 | 39 | 61 | 25 | <100 | <10 | 162 | 23 |
| SRCB -145 | 458 | 21 | 17 | 7 | 59 | <10 | 205 | 6 | 211 | 34 | 40 | 48 | 20 | <100 | <10 | 130 | 19 |
| SRCB -146 | 518 | 24 | 20 | 8 | 65 | <10 | 236 | 7 | 240 | 41 | 40 | 52 | 23 | <100 | <10 | 154 | 23 |
| SRCB -147 | 535 | 30 | 19 | 8 | 69 | <10 | 253 | 7 | 255 | 46 | 41 | 53 | 26 | <100 | <10 | 166 | 24 |
| SRCB -148 | 724 | 29 | 22 | 10 | 77 | <10 | 319 | 8 | 322 | 60 | 41 | 69 | 26 | <100 | <10 | 177 | 26 |
| SRCB -149 | 589 | 25 | 18 | 9 | 72 | <10 | 278 | 7 | 283 | 60 | 39 | 60 | 25 | <100 | <10 | 154 | 22 |

QA/QC Results

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|------------------------|--------|------|-------|--------|------|-------|--------|-------|-------|-------|-----|-------|--------|------|-----|------|--------|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| TRM-2 (RE Standard) | 28992 | 224 | 68 | 196 | 553 | 26 | 17478 | 10 | 7794 | 2563 | 9 | 1074 | 50 | 159 | <10 | 969 | 56 |
| Expected Value | 29000 | 206 | 80 | 212 | 553 | 37 | 19300 | 8 | 8900 | 2800 | NA | 900 | 55 | 217 | NA | 959 | 55 |
| Confidence Level | ± 1200 | ± 32 | ± 8.5 | ± 16.2 | ± 83 | ± 7.4 | ± 1000 | ± 1.1 | ± 800 | ± 300 | NA | ± 300 | ± 14.2 | ± 40 | NA | ± 40 | ± 5.24 |
| B. River In-house Std. | 1089 | 64 | 40 | 7 | 112 | <10 | 516 | 8 | 456 | 115 | 6 | 95 | 18 | <100 | <10 | 358 | 33 |
| Expected Value | 938 | 64 | 35 | 6.8 | 82 | 13 | 450 | 4.5 | 408 | 108 | 6.0 | 77 | 12 | 26 | 4.7 | 345 | 29 |

20-Feb-12

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

Re: results of REE analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|--------------|-------|----|----|----|-----|-----|-----|----|-----|-----|----|-----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB-63 | 770 | 32 | 18 | 10 | 81 | <10 | 308 | 8 | 313 | 38 | 45 | 61 | 25 | <100 | <10 | 175 | 25 |
| SRCB-150 | 796 | 34 | 21 | 10 | 80 | <10 | 316 | 8 | 310 | 48 | 45 | 61 | 23 | <100 | <10 | 181 | 26 |
| SRCB-151 | 48 | <5 | <5 | <2 | <5 | <10 | 23 | <5 | 22 | <5 | <5 | <5 | <5 | <100 | <10 | <5 | <2 |
| SRCB-152 | 1229 | 52 | 35 | 12 | 96 | <10 | 419 | 11 | 401 | 65 | 51 | 82 | 26 | 110 | <10 | 268 | 40 |
| SRCB-153 | 943 | 40 | 29 | 9 | 85 | <10 | 326 | 9 | 315 | 47 | 52 | 70 | 25 | <100 | <10 | 231 | 34 |
| SRCB-154 | 1223 | 50 | 37 | 12 | 97 | <10 | 405 | 11 | 400 | 56 | 53 | 75 | 27 | <100 | <10 | 268 | 40 |
| SRCB-155 | 973 | 43 | 28 | 10 | 82 | <10 | 331 | 9 | 309 | 46 | 52 | 66 | 24 | <100 | <10 | 233 | 35 |
| SRCB-156 | 1053 | 45 | 32 | 10 | 88 | <10 | 365 | 10 | 349 | 50 | 52 | 71 | 24 | <100 | <10 | 248 | 36 |
| SRCB-157 | 859 | 34 | 26 | 10 | 82 | <10 | 322 | 9 | 327 | 51 | 48 | 69 | 23 | <100 | <10 | 204 | 30 |
| SRCB-158 | 902 | 41 | 27 | 10 | 86 | <10 | 333 | 9 | 326 | 43 | 52 | 63 | 27 | <100 | <10 | 216 | 32 |
| SRCB-159 | 997 | 39 | 27 | 10 | 85 | <10 | 356 | 9 | 342 | 52 | 50 | 69 | 26 | <100 | <10 | 226 | 33 |
| SRCB-160 | 988 | 37 | 27 | 11 | 87 | <10 | 367 | 9 | 356 | 49 | 48 | 72 | 25 | <100 | <10 | 213 | 31 |
| SRCB-160 Dup | 946 | 41 | 23 | 11 | 85 | <10 | 352 | 9 | 336 | 51 | 46 | 74 | 24 | <100 | <10 | 203 | 30 |
| SRCB-161 | 2737 | 68 | 45 | 25 | 166 | <10 | 924 | 16 | 929 | 205 | 34 | 195 | 31 | 121 | <10 | 358 | 55 |
| SRCB-162 | 553 | 30 | 17 | 8 | 66 | <10 | 233 | 7 | 230 | 32 | 47 | 45 | 21 | <100 | <10 | 156 | 22 |
| SRCB-163 | 735 | 33 | 21 | 9 | 77 | <10 | 283 | 8 | 283 | 34 | 45 | 55 | 22 | <100 | <10 | 179 | 26 |
| SRCB-164 | 557 | 25 | 16 | 7 | 64 | <10 | 220 | 7 | 217 | 25 | 41 | 42 | 19 | <100 | <10 | 144 | 21 |
| SRCB-165 | 779 | 35 | 22 | 9 | 79 | <10 | 300 | 8 | 299 | 37 | 46 | 57 | 25 | <100 | <10 | 185 | 27 |
| SRCB-166 | 1102 | 44 | 27 | 13 | 99 | <10 | 423 | 9 | 413 | 68 | 44 | 81 | 31 | <100 | <10 | 221 | 32 |
| SRCB-167 | 972 | 38 | 27 | 12 | 91 | <10 | 373 | 9 | 369 | 57 | 48 | 71 | 28 | <100 | <10 | 210 | 31 |

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|--------------|-------|----|----|----|-----|-----|-----|----|-----|-----|----|-----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB-168 | 1033 | 41 | 23 | 12 | 94 | <10 | 398 | 9 | 395 | 63 | 44 | 79 | 29 | <100 | <10 | 210 | 30 |
| SRCB-169 | 959 | 36 | 25 | 11 | 90 | <10 | 367 | 9 | 361 | 51 | 46 | 74 | 27 | <100 | <10 | 198 | 29 |
| SRCB-170 | 1170 | 46 | 28 | 14 | 102 | <10 | 448 | 10 | 455 | 69 | 43 | 89 | 29 | <100 | <10 | 223 | 32 |
| SRCB-171 | 1837 | 51 | 33 | 20 | 137 | <10 | 675 | 12 | 698 | 135 | 42 | 148 | 32 | 113 | <10 | 266 | 39 |
| SRCB-172 | 1062 | 36 | 21 | 15 | 97 | <10 | 425 | 9 | 452 | 73 | 41 | 95 | 28 | <100 | <10 | 188 | 27 |
| SRCB-173 | 738 | 35 | 23 | 9 | 71 | <10 | 280 | 8 | 279 | 39 | 41 | 52 | 23 | <100 | <10 | 174 | 25 |
| SRCB-174 | 1034 | 37 | 23 | 12 | 93 | <10 | 391 | 9 | 392 | 60 | 45 | 80 | 26 | <100 | <10 | 203 | 30 |
| SRCB-175 | 894 | 35 | 24 | 10 | 82 | <10 | 343 | 9 | 335 | 56 | 44 | 67 | 24 | <100 | <10 | 201 | 29 |
| SRCB-176 | 1512 | 50 | 33 | 14 | 114 | <10 | 534 | 11 | 526 | 92 | 45 | 106 | 30 | 111 | <10 | 257 | 38 |
| SRCB-177 | 1215 | 41 | 27 | 14 | 102 | <10 | 461 | 10 | 466 | 79 | 41 | 97 | 28 | <100 | <10 | 217 | 32 |
| SRCB-178 | 766 | 33 | 23 | 10 | 79 | <10 | 306 | 9 | 308 | 36 | 44 | 59 | 25 | <100 | <10 | 176 | 26 |
| SRCB-179 | 791 | 31 | 17 | 10 | 76 | <10 | 314 | 8 | 320 | 37 | 38 | 66 | 23 | <100 | <10 | 169 | 24 |
| SRCB-179 Dup | 798 | 33 | 21 | 10 | 77 | <10 | 317 | 8 | 324 | 42 | 38 | 65 | 23 | <100 | <10 | 169 | 24 |
| SRCB-180 | 779 | 33 | 21 | 10 | 79 | <10 | 309 | 8 | 308 | 41 | 41 | 59 | 24 | <100 | <10 | 172 | 25 |
| SRCB-181 | 855 | 34 | 22 | 10 | 83 | <10 | 332 | 8 | 330 | 48 | 41 | 63 | 26 | <100 | <10 | 174 | 26 |
| SRCB-182 | 892 | 35 | 22 | 11 | 87 | <10 | 355 | 9 | 364 | 50 | 43 | 72 | 26 | <100 | <10 | 185 | 26 |
| SRCB-183 | 630 | 24 | 14 | 9 | 69 | <10 | 249 | 7 | 269 | 37 | 44 | 51 | 18 | <100 | <10 | 132 | 19 |
| SRCB-184 | 1055 | 39 | 28 | 13 | 96 | <10 | 408 | 9 | 407 | 65 | 43 | 83 | 29 | <100 | <10 | 209 | 30 |
| SRCB-185 | 1519 | 48 | 27 | 18 | 125 | <10 | 575 | 11 | 610 | 112 | 40 | 124 | 29 | <100 | <10 | 235 | 34 |
| SRCB-186 | 717 | 26 | 13 | 12 | 83 | <10 | 277 | 8 | 336 | 47 | 42 | 66 | 17 | <100 | <10 | 135 | 19 |
| SRCB-187 | 565 | 24 | 14 | 9 | 67 | <10 | 213 | 7 | 239 | 29 | 46 | 57 | 13 | <100 | <10 | 134 | 18 |
| SRCB-188 | 49 | <5 | <5 | <2 | <5 | <10 | 21 | <5 | 20 | <5 | <5 | <5 | <5 | <100 | <10 | 6 | <2 |
| SRCB-189 | 860 | 33 | 23 | 11 | 85 | <10 | 341 | 8 | 343 | 45 | 44 | 68 | 28 | <100 | <10 | 184 | 27 |
| SRCB-190 | 997 | 39 | 22 | 12 | 92 | <10 | 388 | 9 | 385 | 59 | 44 | 77 | 27 | <100 | <10 | 197 | 28 |
| SRCB-191 | 799 | 32 | 22 | 10 | 82 | <10 | 319 | 8 | 323 | 43 | 44 | 65 | 25 | <100 | <10 | 177 | 25 |
| SRCB-192 | 896 | 32 | 20 | 11 | 88 | <10 | 349 | 8 | 348 | 48 | 43 | 70 | 26 | <100 | <10 | 182 | 27 |
| SRCB-193 | 1319 | 45 | 27 | 16 | 112 | <10 | 500 | 11 | 510 | 82 | 45 | 101 | 32 | <100 | <10 | 236 | 34 |
| SRCB-194 | 1572 | 33 | 18 | 21 | 109 | <10 | 587 | 8 | 667 | 131 | 18 | 137 | 20 | <100 | <10 | 163 | 23 |
| SRCB-195 | 796 | 31 | 19 | 9 | 76 | <10 | 304 | 8 | 294 | 42 | 44 | 53 | 23 | <100 | <10 | 173 | 25 |
| SRCB-196 | 889 | 35 | 25 | 10 | 84 | <10 | 337 | 8 | 331 | 46 | 45 | 61 | 25 | <100 | <10 | 195 | 28 |
| SRCB-197 | 969 | 39 | 25 | 11 | 89 | <10 | 371 | 9 | 370 | 48 | 46 | 78 | 26 | <100 | <10 | 203 | 29 |
| SRCB-198 | 927 | 35 | 20 | 12 | 90 | <10 | 367 | 9 | 384 | 53 | 41 | 74 | 27 | <100 | <10 | 186 | 26 |
| SRCB-199 | 1274 | 46 | 28 | 14 | 109 | <10 | 479 | 11 | 476 | 77 | 47 | 100 | 28 | <100 | <10 | 238 | 35 |
| SRCB-200 | 1208 | 45 | 33 | 13 | 101 | <10 | 442 | 11 | 435 | 66 | 48 | 88 | 30 | <100 | <10 | 241 | 35 |
| SRCB-200 Dup | 1218 | 44 | 30 | 13 | 99 | <10 | 445 | 10 | 437 | 67 | 47 | 89 | 27 | <100 | <10 | 238 | 35 |

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|----------|-------|----|----|----|-----|-----|-----|----|-----|----|----|-----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB-201 | 1068 | 41 | 26 | 12 | 92 | <10 | 390 | 10 | 389 | 58 | 46 | 83 | 28 | <100 | <10 | 221 | 33 |
| SRCB-202 | 1409 | 51 | 30 | 14 | 113 | <10 | 513 | 11 | 511 | 84 | 46 | 97 | 31 | <100 | <10 | 252 | 37 |
| SRCB-203 | 1151 | 43 | 27 | 13 | 97 | <10 | 433 | 10 | 433 | 68 | 43 | 89 | 27 | <100 | <10 | 222 | 32 |
| SRCB-204 | 976 | 42 | 23 | 12 | 89 | <10 | 384 | 9 | 377 | 60 | 43 | 76 | 25 | <100 | <10 | 193 | 28 |
| SRCB-205 | 1417 | 52 | 36 | 13 | 109 | <10 | 471 | 11 | 462 | 74 | 48 | 102 | 28 | 109 | <10 | 275 | 41 |

Daniel Chevalier, MASc
 Manager, Minerals Engineering Centre

QA/QC Results

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|------------------------|--------|------|-------|--------|------|-------|--------|-------|-------|-------|-----|-------|--------|------|-----|------|--------|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| TRM-2 (RE Standard) | 30319 | 239 | 70 | 218 | 594 | 24 | 19040 | 10 | 8586 | 2599 | 9 | 1135 | 58 | 178 | <10 | 980 | 59 |
| Expected Value | 29000 | 206 | 80 | 212 | 553 | 37 | 19300 | 8 | 8900 | 2800 | NA | 900 | 55 | 217 | NA | 959 | 55 |
| Confidence Level | ± 1200 | ± 32 | ± 8.5 | ± 16.2 | ± 83 | ± 7.4 | ± 1000 | ± 1.1 | ± 800 | ± 300 | NA | ± 300 | ± 14.2 | ± 40 | NA | ± 40 | ± 5.24 |
| B. River In-house Std. | 1104 | 72 | 46 | 8 | 124 | 10 | 570 | 9 | 510 | 87 | 7 | 107 | 16 | <100 | <10 | 394 | 36 |
| Expected Value | 938 | 64 | 35 | 6.8 | 82 | 13 | 450 | 4.5 | 408 | 108 | 6.0 | 77 | 12 | 26 | 4.7 | 345 | 29 |

21-Feb-12

Rare Earth Minerals Sands Inc.
102 Gerrish Street
PO Box 3177
Windsor, NS
B0N 2T0
Atten: Tom Calkin

Re: results of REE analysis on submitted samples.
Li-metaborate/Li-tetraborate fusion, ICP OES finish.

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|---------------|-------|----|----|----|-----|-----|-----|----|-----|-----|----|-----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB -206 | 873 | 43 | 29 | 11 | 93 | <10 | 438 | 9 | 378 | 73 | 43 | 77 | 23 | 104 | <10 | 230 | 33 |
| SRCB -207 | 852 | 43 | 28 | 11 | 91 | <10 | 427 | 10 | 361 | 76 | 44 | 72 | 21 | 107 | <10 | 225 | 33 |
| SRCB -208 | 917 | 41 | 28 | 11 | 95 | <10 | 463 | 10 | 395 | 77 | 46 | 81 | 24 | <100 | <10 | 223 | 33 |
| SRCB -209 | 975 | 50 | 34 | 12 | 101 | <10 | 483 | 11 | 411 | 81 | 44 | 90 | 23 | 113 | <10 | 270 | 39 |
| SRCB -210 | 936 | 43 | 32 | 12 | 100 | <10 | 468 | 10 | 398 | 75 | 46 | 86 | 22 | 65 | <10 | 239 | 35 |
| SRCB -211 | 1014 | 45 | 33 | 12 | 101 | <10 | 501 | 11 | 441 | 85 | 44 | 90 | 23 | 107 | <10 | 253 | 37 |
| SRCB -212 | 1115 | 54 | 34 | 13 | 112 | <10 | 543 | 12 | 475 | 93 | 43 | 99 | 25 | 139 | <10 | 285 | 41 |
| SRCB -213 | 846 | 43 | 30 | 11 | 94 | <10 | 426 | 10 | 357 | 71 | 46 | 78 | 22 | 102 | <10 | 234 | 34 |
| SRCB -214 | 1167 | 51 | 34 | 15 | 112 | <10 | 559 | 11 | 505 | 101 | 44 | 109 | 24 | 117 | <10 | 274 | 39 |
| SRCB -215 | 454 | 23 | 16 | 8 | 66 | <10 | 268 | 7 | 206 | 33 | 43 | 48 | 12 | <100 | <10 | 155 | 20 |
| SRCB -216 | 747 | 31 | 18 | 11 | 81 | <10 | 367 | 8 | 319 | 63 | 39 | 68 | 20 | <100 | <10 | 158 | 22 |
| SRCB -217 | 525 | 19 | 12 | 8 | 67 | <10 | 235 | 7 | 202 | 36 | 41 | 45 | 12 | <100 | <10 | 114 | 16 |
| SRCB -218 | 533 | 21 | 14 | 8 | 69 | <10 | 268 | 7 | 221 | 38 | 40 | 46 | 15 | <100 | <10 | 126 | 17 |
| SRCB -219 | 553 | 29 | 16 | 8 | 71 | <10 | 280 | 7 | 231 | 37 | 43 | 46 | 17 | <100 | <10 | 145 | 20 |
| SRCB -220 | 619 | 32 | 17 | 10 | 76 | <10 | 308 | 7 | 274 | 52 | 40 | 57 | 19 | <100 | <10 | 158 | 21 |
| SRCB -220 Dup | 583 | 24 | 16 | 9 | 73 | <10 | 295 | 7 | 265 | 47 | 41 | 59 | 19 | <100 | <10 | 143 | 20 |
| SRCB -221 | 40 | 7 | <5 | <2 | <5 | <10 | 21 | <5 | 18 | <5 | <5 | <5 | <5 | <100 | <10 | 7 | <2 |
| SRCB -222 | 1985 | 66 | 43 | 23 | 163 | <10 | 904 | 16 | 866 | 179 | 33 | 182 | 25 | 153 | <10 | 346 | 54 |
| SRCB -223 | 481 | 20 | 11 | 8 | 65 | <10 | 256 | 6 | 208 | 35 | 40 | 41 | 11 | <100 | <10 | 104 | 15 |
| SRCB -224 | 571 | 29 | 15 | 10 | 78 | <10 | 297 | 7 | 255 | 47 | 42 | 54 | 14 | <100 | <10 | 148 | 18 |

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|---------------|-------|----|----|----|-----|-----|-----|----|-----|----|----|-----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB -225 | 551 | 23 | 14 | 9 | 68 | <10 | 270 | 8 | 225 | 37 | 42 | 52 | 13 | <100 | <10 | 128 | 18 |
| SRCB -226 | 562 | 25 | 12 | 9 | 71 | <10 | 284 | 7 | 251 | 44 | 42 | 50 | 13 | <100 | <10 | 123 | 16 |
| SRCB -227 | 521 | 23 | 13 | 9 | 67 | <10 | 276 | 7 | 235 | 41 | 41 | 49 | 12 | <100 | <10 | 124 | 17 |
| SRCB -228 | 720 | 29 | 17 | 10 | 80 | <10 | 356 | 8 | 315 | 60 | 39 | 70 | 19 | <100 | <10 | 157 | 22 |
| SRCB -229 | 596 | 29 | 16 | 9 | 71 | <10 | 306 | 7 | 263 | 42 | 40 | 57 | 17 | <100 | <10 | 147 | 21 |
| SRCB -230 | 508 | 21 | 15 | 8 | 67 | <10 | 263 | 7 | 220 | 37 | 36 | 44 | 15 | <100 | <10 | 132 | 18 |
| SRCB -231 | 700 | 34 | 22 | 10 | 82 | <10 | 355 | 8 | 308 | 58 | 42 | 67 | 19 | <100 | <10 | 182 | 26 |
| SRCB -232 | 546 | 21 | 13 | 9 | 68 | <10 | 286 | 7 | 243 | 41 | 41 | 48 | 13 | <100 | <10 | 120 | 16 |
| SRCB -233 | 574 | 28 | 16 | 9 | 74 | <10 | 296 | 7 | 251 | 47 | 41 | 50 | 18 | <100 | <10 | 149 | 21 |
| SRCB -234 | 579 | 32 | 18 | 9 | 69 | <10 | 299 | 7 | 254 | 48 | 39 | 50 | 18 | <100 | <10 | 152 | 22 |
| SRCB -235 | 596 | 31 | 20 | 8 | 75 | <10 | 303 | 8 | 260 | 43 | 41 | 55 | 19 | <100 | <10 | 158 | 22 |
| SRCB -236 | 505 | 26 | 15 | 7 | 64 | <10 | 264 | 6 | 212 | 35 | 38 | 45 | 16 | <100 | <10 | 134 | 19 |
| SRCB -237 | 513 | 20 | 13 | 8 | 67 | <10 | 266 | 6 | 228 | 37 | 41 | 48 | 15 | <100 | <10 | 124 | 17 |
| SRCB -238 | 639 | 32 | 25 | 9 | 78 | <10 | 329 | 8 | 272 | 52 | 43 | 55 | 18 | <100 | <10 | 181 | 26 |
| SRCB -239 | 408 | 21 | 13 | 6 | 56 | <10 | 219 | 6 | 166 | 23 | 39 | 35 | 10 | <100 | <10 | 123 | 17 |
| SRCB -240 | 572 | 31 | 20 | 8 | 68 | <10 | 299 | 7 | 243 | 47 | 41 | 49 | 16 | <100 | <10 | 162 | 23 |
| SRCB -241 | 495 | 27 | 19 | 7 | 61 | <10 | 266 | 7 | 212 | 39 | 40 | 40 | 16 | <100 | <10 | 152 | 22 |
| SRCB -241 Dup | 518 | 27 | 21 | 7 | 64 | <10 | 276 | 7 | 219 | 41 | 42 | 47 | 17 | <100 | <10 | 158 | 23 |
| SRCB -242 | 497 | 27 | 15 | 7 | 62 | <10 | 266 | 7 | 213 | 36 | 39 | 46 | 17 | <100 | <10 | 141 | 20 |
| SRCB -243 | 516 | 25 | 16 | 8 | 67 | <10 | 273 | 7 | 207 | 40 | 41 | 46 | 15 | <100 | <10 | 149 | 21 |
| SRCB -244 | 550 | 29 | 19 | 8 | 68 | <10 | 287 | 7 | 231 | 43 | 43 | 51 | 17 | <100 | <10 | 159 | 23 |
| SRCB -245 | 786 | 40 | 27 | 11 | 87 | <10 | 399 | 9 | 333 | 72 | 44 | 70 | 21 | <100 | <10 | 203 | 29 |
| SRCB -246 | 576 | 30 | 19 | 9 | 71 | <10 | 303 | 7 | 252 | 45 | 42 | 52 | 18 | <100 | <10 | 163 | 23 |
| SRCB -247 | 1111 | 47 | 30 | 14 | 109 | <10 | 543 | 11 | 472 | 93 | 44 | 105 | 25 | 118 | <10 | 249 | 36 |
| SRCB -248 | 760 | 38 | 25 | 10 | 84 | <10 | 385 | 9 | 326 | 61 | 45 | 65 | 21 | <100 | <10 | 208 | 30 |
| SRCB -249 | 818 | 39 | 25 | 11 | 88 | <10 | 414 | 9 | 348 | 67 | 44 | 76 | 20 | <100 | <10 | 211 | 31 |
| SRCB -250 | 751 | 38 | 24 | 10 | 86 | <10 | 379 | 9 | 324 | 59 | 44 | 68 | 20 | <100 | <10 | 199 | 29 |
| SRCB -251 | 847 | 42 | 26 | 11 | 90 | <10 | 416 | 9 | 359 | 69 | 42 | 78 | 21 | <100 | <10 | 217 | 32 |
| SRCB -252 | 813 | 38 | 26 | 11 | 88 | <10 | 402 | 9 | 349 | 68 | 42 | 71 | 20 | <100 | <10 | 205 | 30 |
| SRCB -253 | 737 | 38 | 24 | 9 | 82 | <10 | 373 | 9 | 313 | 55 | 43 | 66 | 19 | <100 | <10 | 202 | 29 |
| SRCB -254 | 638 | 35 | 24 | 9 | 75 | <10 | 330 | 8 | 276 | 48 | 41 | 58 | 18 | <100 | <10 | 181 | 25 |
| SRCB -255 | 675 | 33 | 22 | 9 | 79 | <10 | 343 | 8 | 286 | 51 | 41 | 65 | 18 | <100 | <10 | 176 | 25 |
| SRCB -256 | 694 | 36 | 26 | 9 | 83 | <10 | 358 | 9 | 304 | 55 | 46 | 61 | 21 | <100 | <10 | 205 | 29 |
| SRCB -257 | 815 | 45 | 30 | 11 | 92 | <10 | 416 | 10 | 353 | 63 | 47 | 76 | 23 | 103 | <10 | 242 | 35 |
| SRCB -258 | 709 | 41 | 26 | 11 | 86 | <10 | 365 | 9 | 301 | 55 | 46 | 63 | 22 | <100 | <10 | 205 | 29 |

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|---------------|-------|----|----|----|----|-----|-----|----|-----|----|----|----|----|------|-----|-----|----|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| SRCB -259 | 751 | 42 | 26 | 10 | 90 | <10 | 384 | 9 | 318 | 60 | 47 | 72 | 22 | <100 | <10 | 217 | 31 |
| SRCB -260 | 766 | 42 | 25 | 11 | 85 | <10 | 386 | 9 | 323 | 59 | 46 | 69 | 21 | <100 | <10 | 218 | 32 |
| SRCB -260 Dup | 744 | 40 | 25 | 10 | 81 | <10 | 375 | 9 | 315 | 62 | 45 | 69 | 19 | <100 | <10 | 216 | 31 |
| SRCB -261 | 779 | 44 | 29 | 10 | 88 | <10 | 397 | 10 | 342 | 68 | 47 | 73 | 20 | <100 | <10 | 232 | 33 |
| SRCB -262 | 46 | <5 | <5 | <2 | <5 | <10 | 21 | <5 | <5 | <5 | <5 | <5 | <5 | <100 | <10 | 6 | <2 |

Daniel Chevalier, MASc
Manager, Minerals Engineering Centre

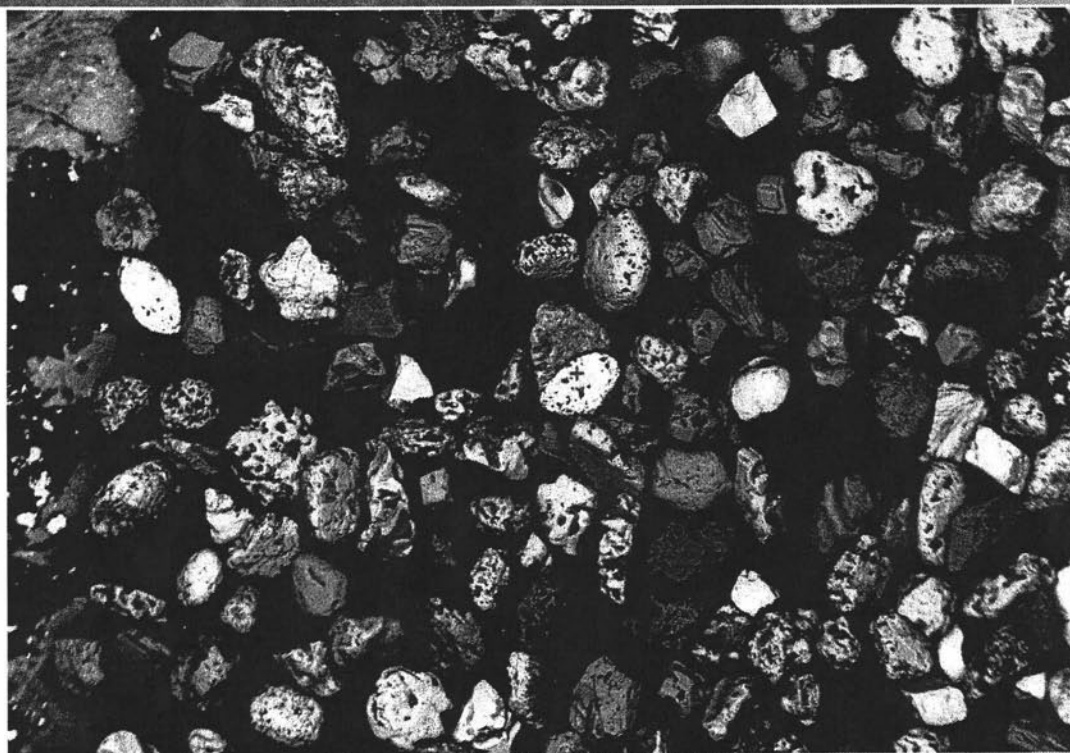
QA/QC Results

| Sample | mg/kg | | | | | | | | | | | | | | | | |
|------------------------|--------|------|-------|--------|------|-------|--------|-------|-------|-------|-----|-------|--------|------|-----|------|--------|
| | Ce | Dy | Er | Eu | Gd | Ho | La | Lu | Nd | Pr | Sc | Sm | Tb | Th | Tm | Y | Yb |
| TRM-2 (RE Standard) | 28484 | 219 | 72 | 206 | 572 | 26 | 19095 | 10 | 7923 | 2564 | 8 | 1068 | 62 | 176 | <10 | 953 | 57 |
| Expected Value | 29000 | 206 | 80 | 212 | 553 | 37 | 19300 | 8 | 8900 | 2800 | NA | 900 | 55 | 217 | NA | 959 | 55 |
| Confidence Level | ± 1200 | ± 32 | ± 8.5 | ± 16.2 | ± 83 | ± 7.4 | ± 1000 | ± 1.1 | ± 800 | ± 300 | NA | ± 300 | ± 14.2 | ± 40 | NA | ± 40 | ± 5.24 |
| B. River In-house Std. | 1037 | 65 | 44 | 7 | 116 | 8 | 681 | 8 | 456 | 106 | 6 | 93 | 16 | <100 | <10 | 368 | 35 |
| Expected Value | 938 | 64 | 35 | 6.8 | 82 | 13 | 450 | 4.5 | 408 | 108 | 6.0 | 77 | 12 | 26 | 4.7 | 345 | 29 |

Appendix D

Mineralogical Anaylysis of Two Nova Scotia Sand Samples
(Anthony N. Mariano)

Mineralogical Analysis of Two Nova Scotia Sand Samples



Confidential Report for:
REMSI
Windsor, NS
Canada

Anthony N. Mariano PhD

Anthony Mariano Jr.

3/1/2012

Mineralogical Analysis

Two sand samples from Nova Scotia were examined for mineral identification. The samples submitted by REMSI were labeled as a sand sample and a spiral concentrate. Polished thin sections were prepared from these two samples with the following designation:

T-791 – Sand Sample

T-791A – Spiral Concentrate

The thin sections were studied with conventional petrography, cathodoluminescence (CL), and scanning electron microscopy with the utilization of backscattered electron imaging (BSE), x-ray element mapping (XEM) and energy-dispersive x-ray detection (EDS).

The samples were examined with a Thermo Fisher Niton portable x-ray analyzer and their resultant chemical analyses shown in Table 1 gave a Σ of La+Ce+Nd+Y as 0.485 wt.% for T-791 and 0.787 wt.% for T-791A.

The study of these samples was focused on the identification of rare earth element-bearing minerals and other minerals that could have economic significance. The sand sample T-791 consists predominantly of quartz and other minerals that also appear in the spiral concentrate sample (T-791A).

The spiral concentrate consists predominantly of ilmenite, Fe oxides, diopside ($\text{CaMgSi}_2\text{O}_6$) and less amounts of apatite. Minerals occurring in minor quantities, which could constitute byproducts of ilmenite mining, include rutile, zircon and monazite.

In the XEM images illustrated in Figures 1, 2, and 3 of this report, the mottled blue and reddish grains represent ilmenite. This inhomogeneous mottled color appearance is a result of variations in Fe and Ti in the ilmenite grains. This is a result of oxidation affects where conversion of some of the Fe^{2+} to Fe^{3+} has produced Fe_2O_3 and leucoxene.

Other minerals also observed in the sands include garnet, magnetite, and barite. The mineral xenotime (YPO_4) was found only in trace quantities.

Further efforts in the evaluation of this sand should be concentrated on establishing the grade of the ilmenite. An accurate chemical analysis of an ilmenite concentrate would also be useful in establishing whether or not oxidation of the primary ilmenite has produced an upgraded value in TiO_2 . Stoichiometric ilmenite has a TiO_2 value of 52.66 wt.% but in some geologic environments the TiO_2 content can be upgraded to > 72 wt.% during oxidation.

| Table 1 - Nova Scotia Sand Niton Analysis | | | | | | |
|---|-------|--------|--|-----------|--------|--------|
| SAMPLE | T-791 | T-791A | | | T-791 | T-791A |
| La | 0.068 | 0.122 | | Co | < LOD | < LOD |
| La Error | 0.009 | 0.013 | | Co Error | 0.051 | 0.099 |
| Ce | 0.127 | 0.273 | | V | < LOD | < LOD |
| Ce Error | 0.01 | 0.017 | | V Error | 1.084 | 2.339 |
| Pr | 0.13 | 0.119 | | Mo | < LOD | 0.006 |
| Pr Error | 0.011 | 0.016 | | Mo Error | 0.002 | 0.002 |
| Nd | 0.152 | 0.248 | | Sb | < LOD | < LOD |
| Nd Error | 0.018 | 0.027 | | Sb Error | 0.004 | 0.005 |
| Y | 0.008 | 0.025 | | Cd | < LOD | < LOD |
| Y Error | 0.001 | 0.002 | | Cd Error | 0.002 | 0.003 |
| La+Ce+Pr+Nd+Y | 0.485 | 0.787 | | Ag | < LOD | < LOD |
| Nb | 0.013 | 0.024 | | Ag Error | 0.002 | 0.002 |
| Nb Error | 0.001 | 0.001 | | Rb | 0.003 | < LOD |
| Th | 0.004 | 0.009 | | Rb Error | 0.001 | 0.002 |
| Th Error | 0.001 | 0.003 | | Bi | < LOD | < LOD |
| U | < LOD | 0.003 | | Bi Error | 0.005 | 0.012 |
| U Error | 0.002 | 0.001 | | Au | < LOD | < LOD |
| P | < LOD | < LOD | | Au Error | 0.002 | 0.005 |
| P Error | 0.493 | 0.642 | | Se | < LOD | < LOD |
| Ba | 0.035 | 0.072 | | Se Error | 0.002 | 0.002 |
| Ba Error | 0.006 | 0.009 | | As | < LOD | 0.005 |
| Sr | 0.007 | 0.008 | | As Error | 0.002 | 0.002 |
| Sr Error | 0.001 | 0.001 | | Ca | < LOD | < LOD |
| Zr | 0.205 | 0.877 | | Ca Error | 1.266 | 2.48 |
| Zr Error | 0.003 | 0.019 | | K | 0.632 | < LOD |
| Ti | 4.275 | 10.543 | | K Error | 0.145 | 0.55 |
| Ti Error | 0.881 | 1.762 | | Al | 0.568 | 1.415 |
| Sn | < LOD | < LOD | | Al Error | 0.149 | 0.315 |
| Sn Error | 0.004 | 0.005 | | Si | 5.231 | 2.39 |
| W | < LOD | < LOD | | Si Error | 0.215 | 0.173 |
| W Error | 0.015 | 0.025 | | Cl | 0.175 | 0.127 |
| Fe | 9.386 | 23.844 | | Cl Error | 0.013 | 0.014 |
| Fe Error | 0.157 | 0.541 | | S | < LOD | < LOD |
| Mg | < LOD | < LOD | | S Error | 0.049 | 0.063 |
| Mg Error | 1.838 | 3.573 | | Bal | 77.053 | 55.3 |
| Mn | 1.147 | 3.297 | | Bal Error | 1.455 | 3.304 |
| Mn Error | 0.351 | 0.628 | | | | |
| Cr | < LOD | < LOD | | | | |
| Cr Error | 0.315 | 0.82 | | | | |
| Cu | < LOD | 0.023 | | | | |
| Cu Error | 0.006 | 0.006 | | | | |
| Zn | 0.01 | 0.021 | | | | |
| Zn Error | 0.002 | 0.004 | | | | |
| Ni | < LOD | < LOD | | | | |
| Ni Error | 0.01 | 0.019 | | | | |
| Pb | 0.006 | 0.013 | | | | |
| Pb Error | 0.001 | 0.003 | | | | |

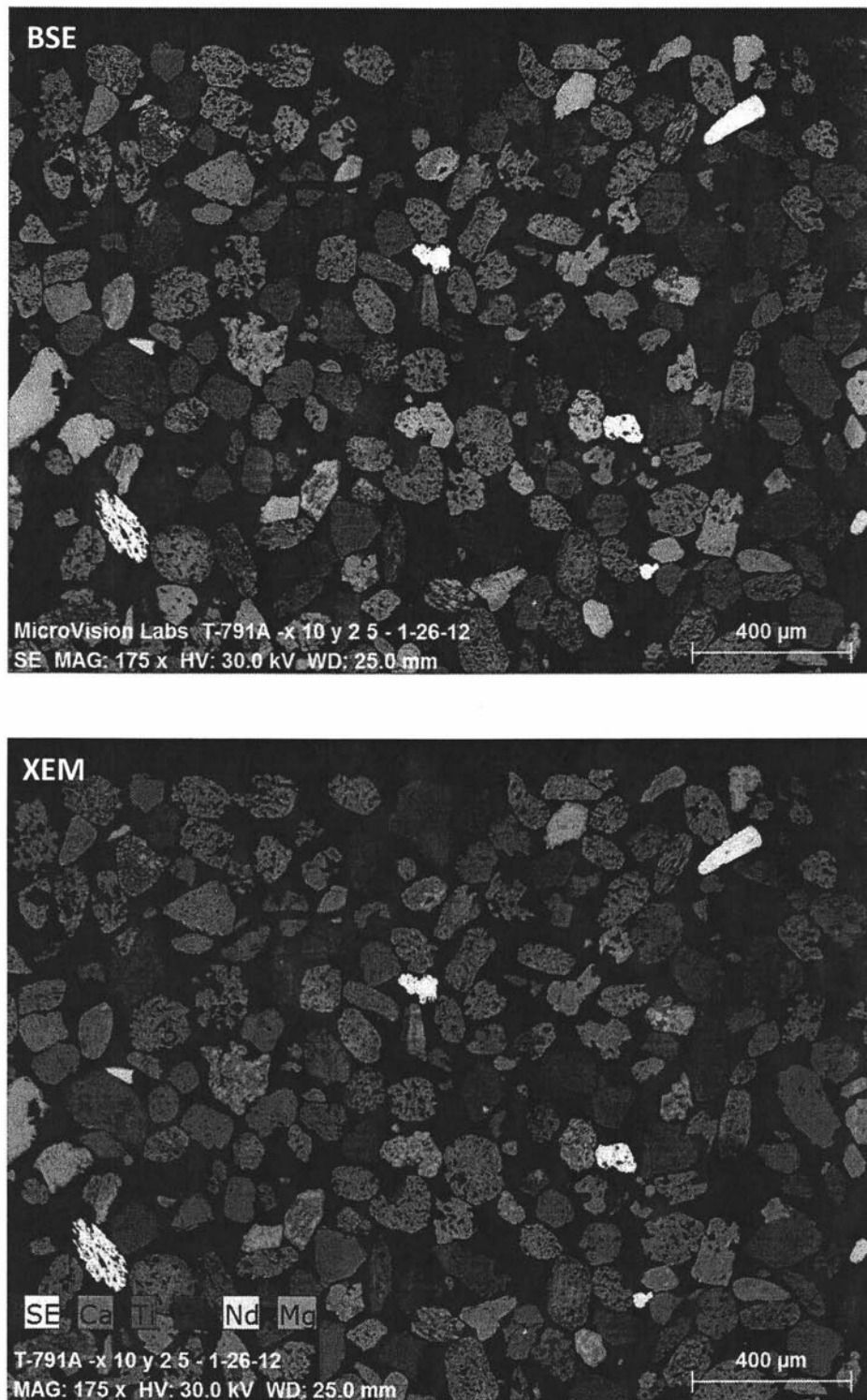


Fig. 1 BSE and XEM Images T-791A Spiral Concentrate

In this polished thin section of the spiral concentrate, the BSE image shows the mineral grains with variations in grey and white colors based on their atomic number affect (Z). In the corresponding XEM map different colors are chosen to represent different elements. XEM legend: Yellow – Nd – Monazite; Solid blue – Ti – Rutile; Mottled dull blue – Ti – Ilmenite; White – Ba – Barite; Dull green – Ca+Fe – Diopside; Orange – Fe – Fe oxides; Bright green – Ca – Apatite; the dull brown grains are garnets. In the XEM image the yellow grains are monazite. They are less than 0.2 mm in cross-section and only occur in low quantity. The white grains in the XEM map are zircon.

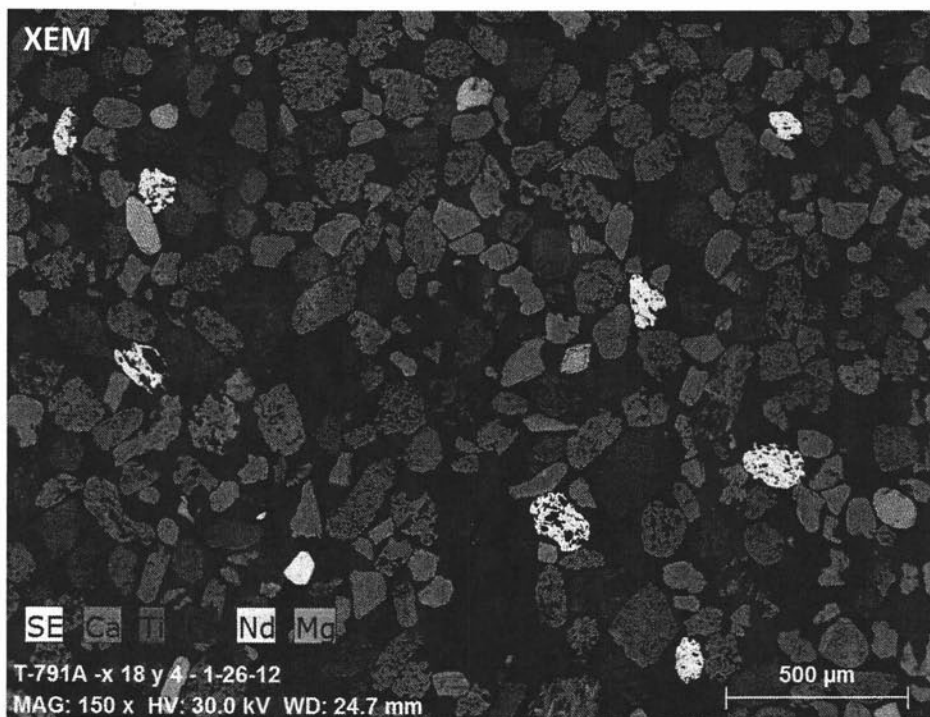
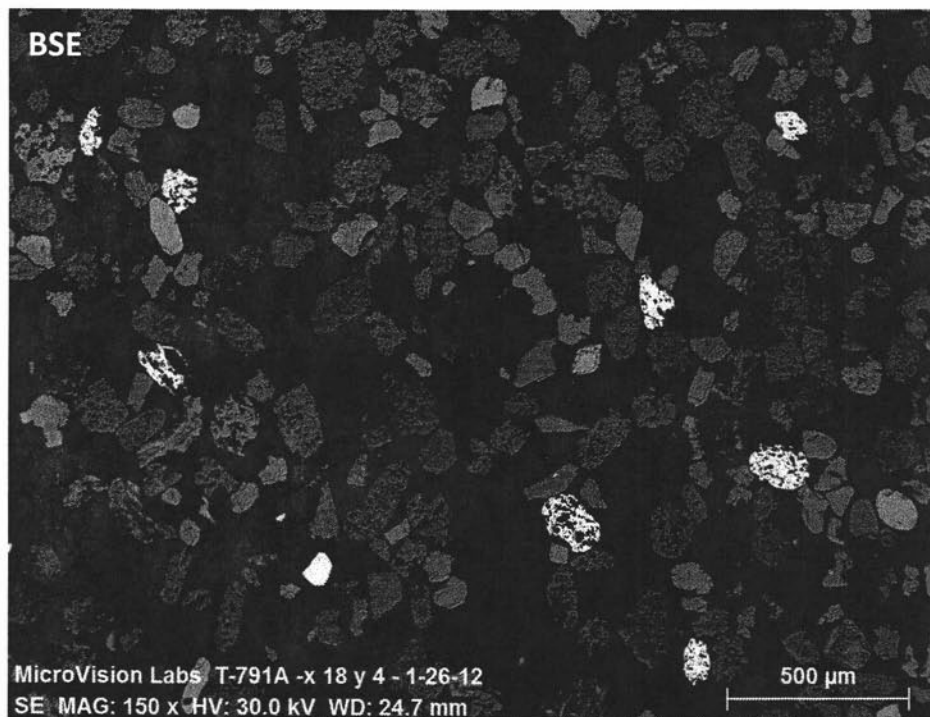


Fig. 2 BSE and XEM Images of T-791A Spiral Concentrate

The legend for the XEM image is the same as Figure 1 except that the light yellow-white grains are zircon. The bright yellow grains are monazite and they are more abundant than the image from Figure 1.

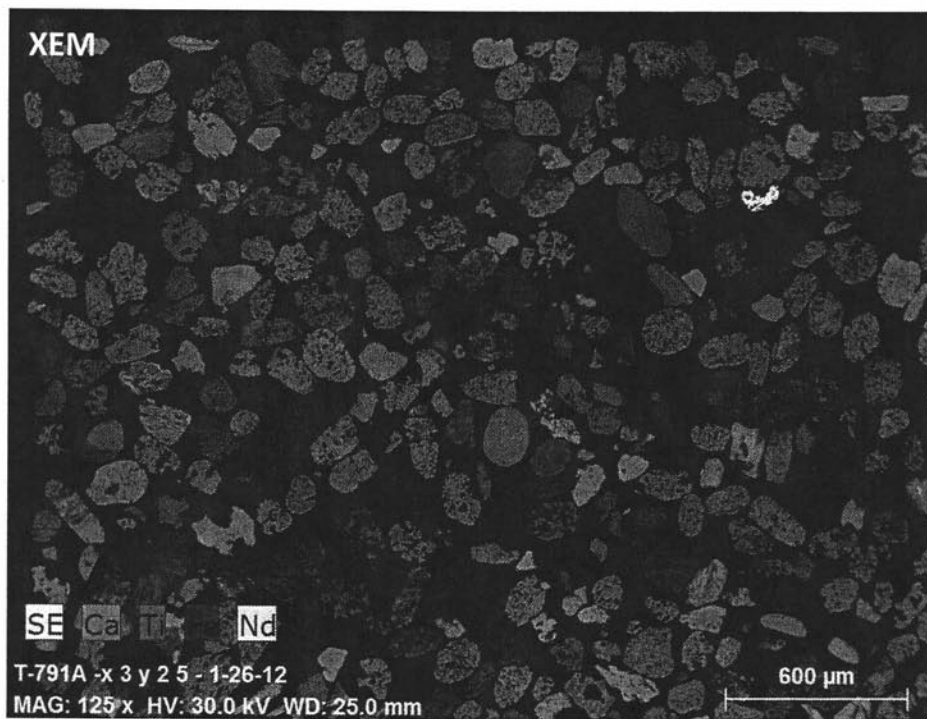
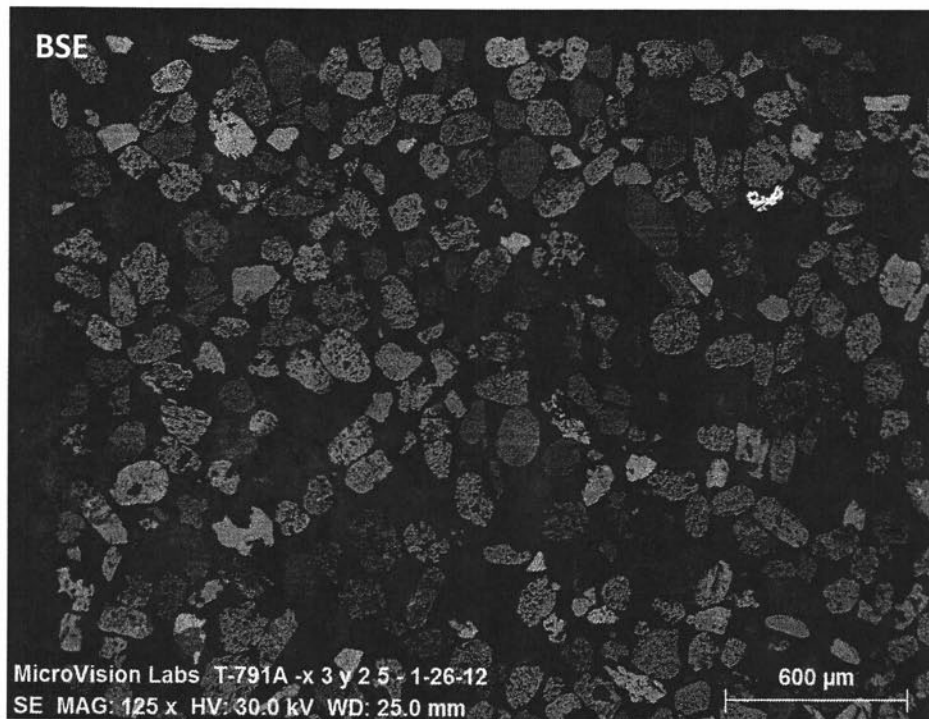


Fig. 3 BSE and XEM Images of T-791A Spiral Concentrate

XEM Legend:

Green – Ca – apatite;
 Yellow – Nd – monazite (only one grain);
 Red-Orange – Fe oxides;

Mottled dull light blue – ilmenite;
 Solid blue – rutile

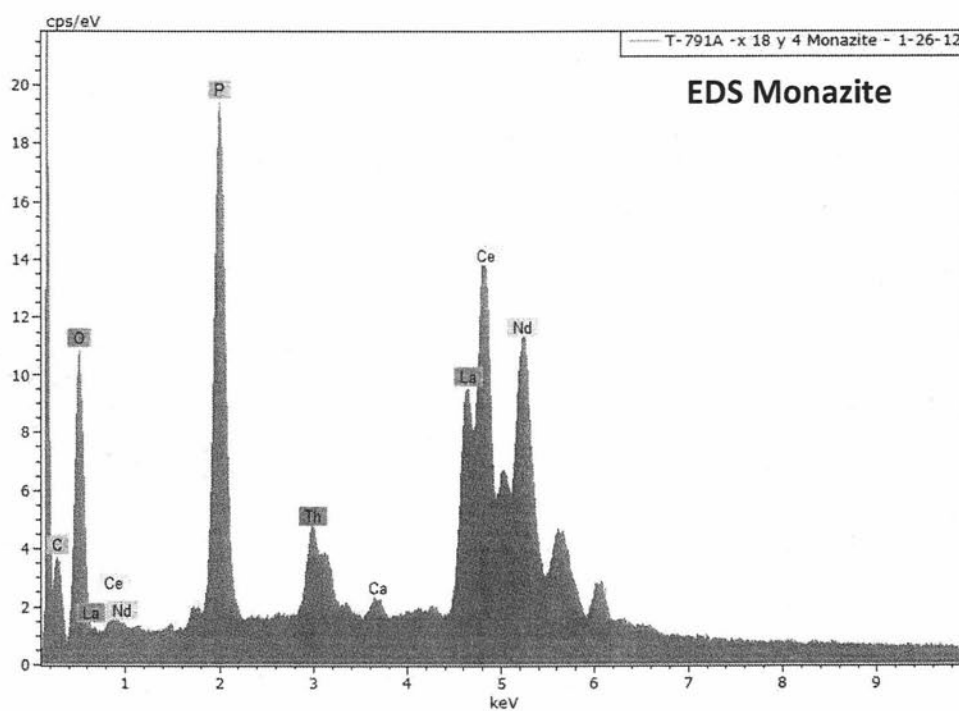


Fig. 4 BSE Image and EDS Plot for Monazite T-791A Spiral Concentrate

The central white grain in the BSE image is monazite with a dimension of $\approx 50 \mu\text{m}$. The EDS plot indicates a high content of Th in the monazite.

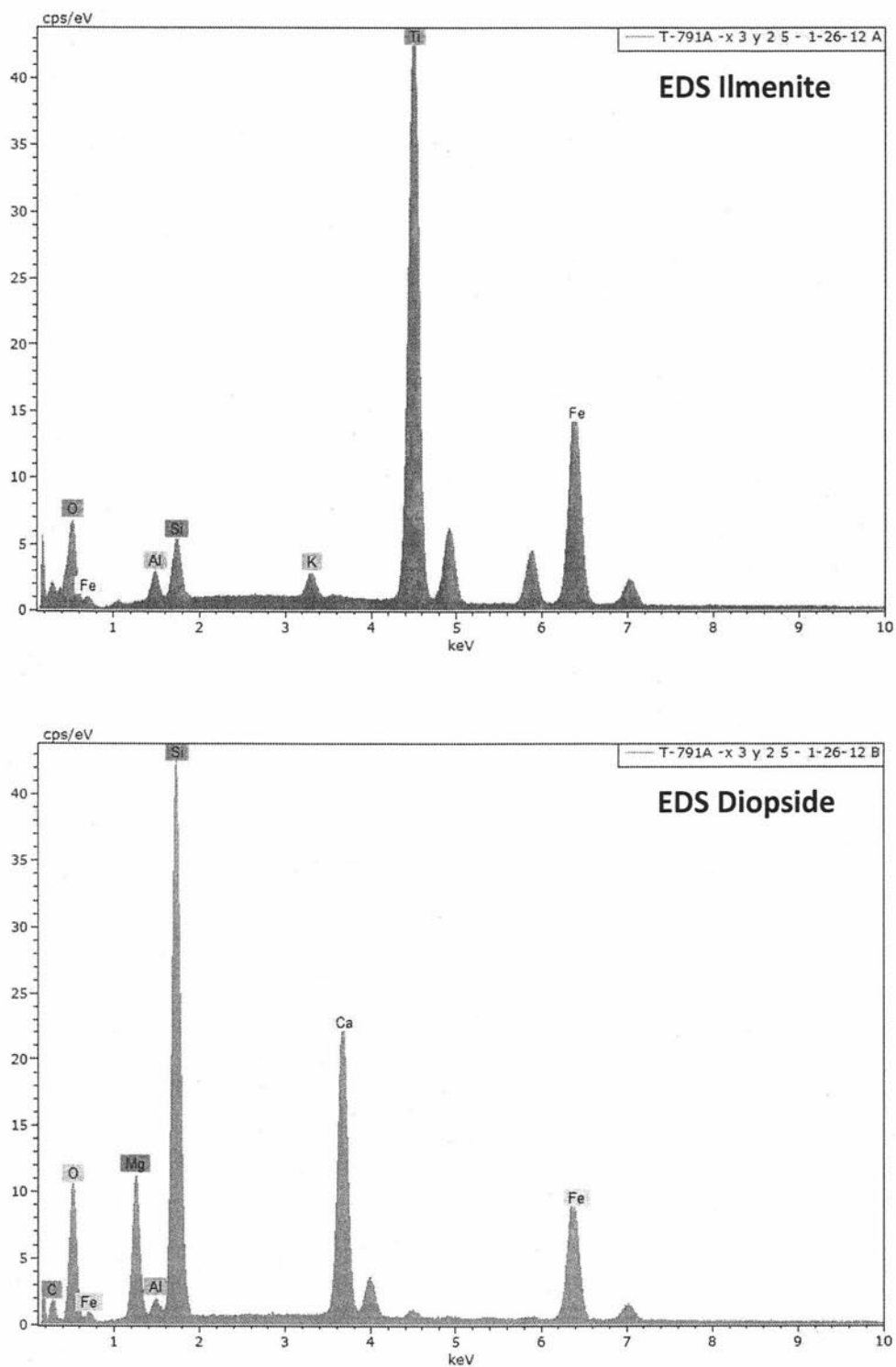


Fig. 5 EDS Plots for Ilmenite and Diopside from T-791A Spiral Concentrate

This ilmenite has a higher content of Ti than stoichiometric FeTiO_3 . The diopside is a $\text{Ca}(\text{Mg,Fe})\text{Si}_2\text{O}_6$ pyroxene.

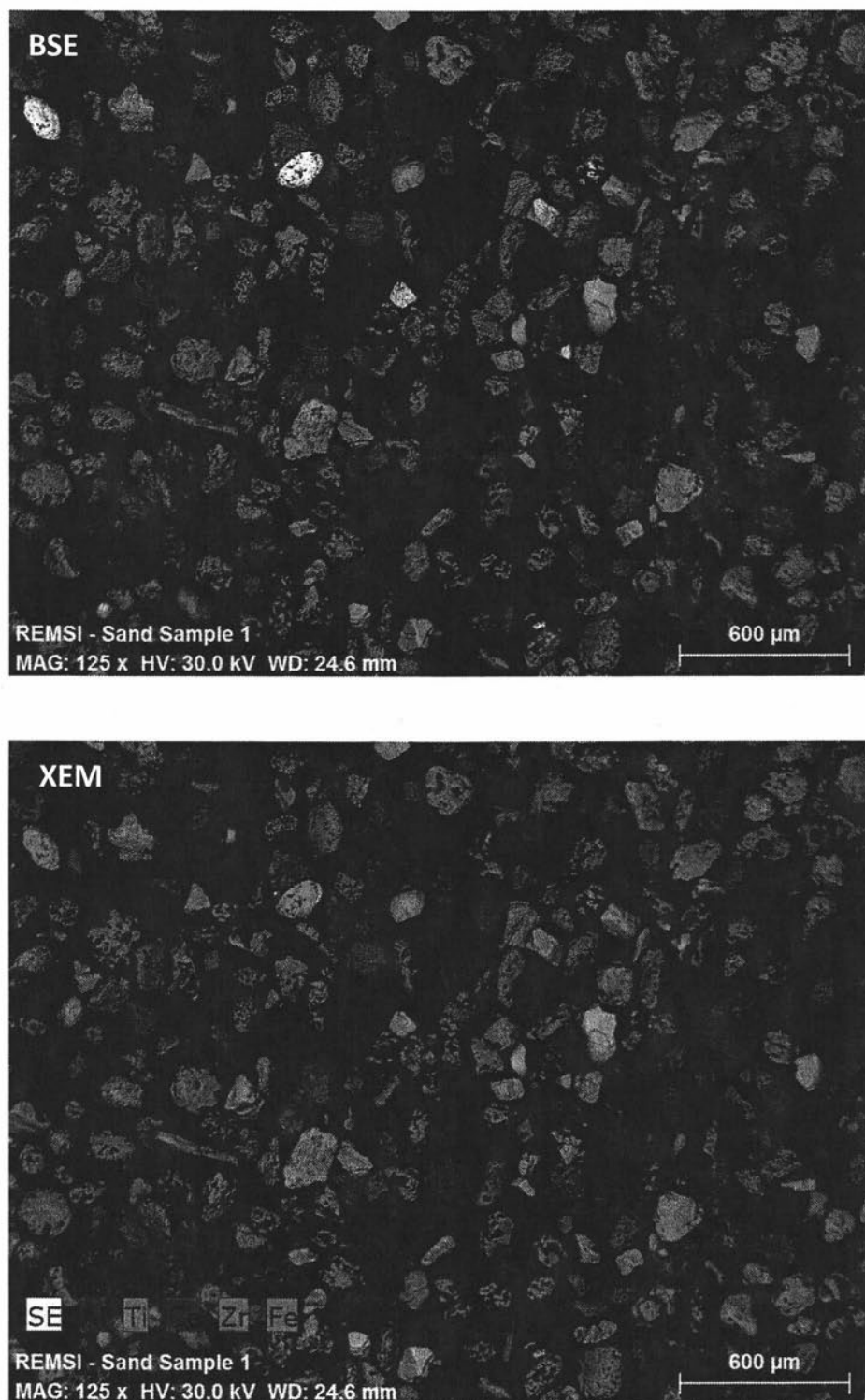


Fig. 6 Spiral Concentrate Nova Scotia

The elliptical red grains in the upper left side of the 125x XEM image are monazite. One of these grains is magnified in the 2000x BSE micrograph (figure 7). The EDS plot for this monazite does not show the Th-M α emission above the noise of the EDS plot. The monazite EDS plot of Figure 4 shows a high content of Th. It is assumed that monazite in these sands is derived from different sources. Other minerals occurring in this concentrate include apatite, diopside, garnet and corundum.

XEM Legend: Green – Ti – ilmenite; Red – Ce – monazite; Orange – Fe – Iron oxides; Light blue – Zr – zircon

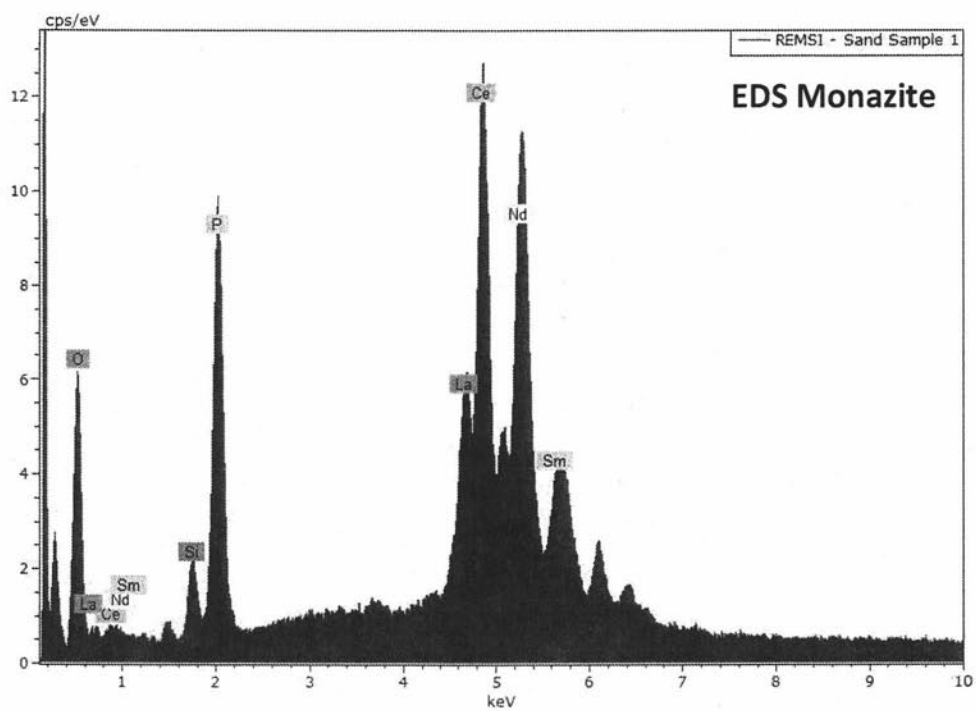
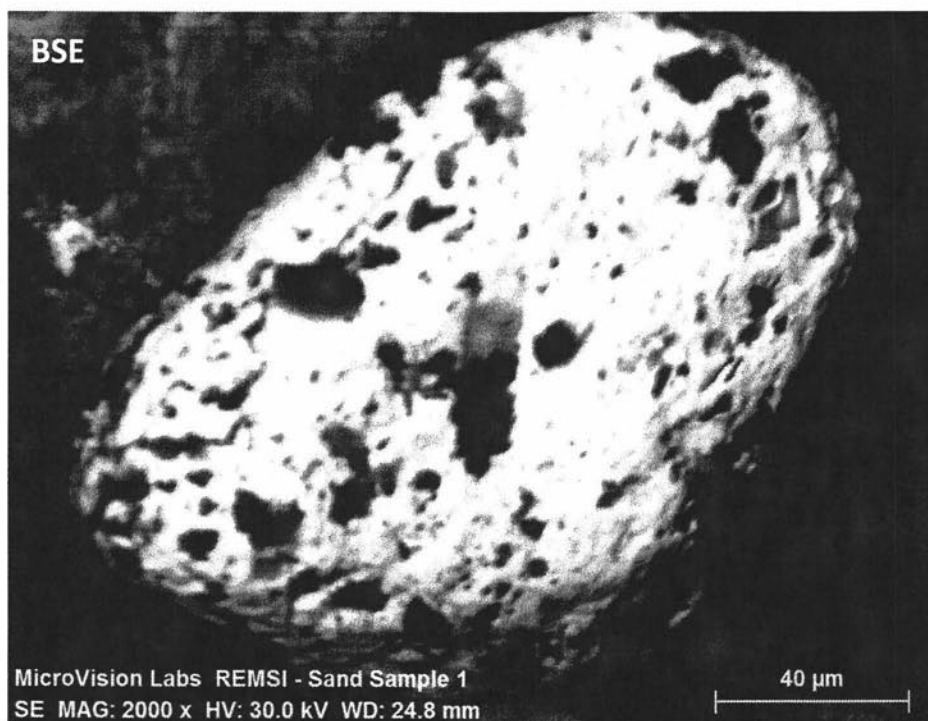


Fig. 7 BSE Image and EDS Plot for Monazite Spiral Concentrate

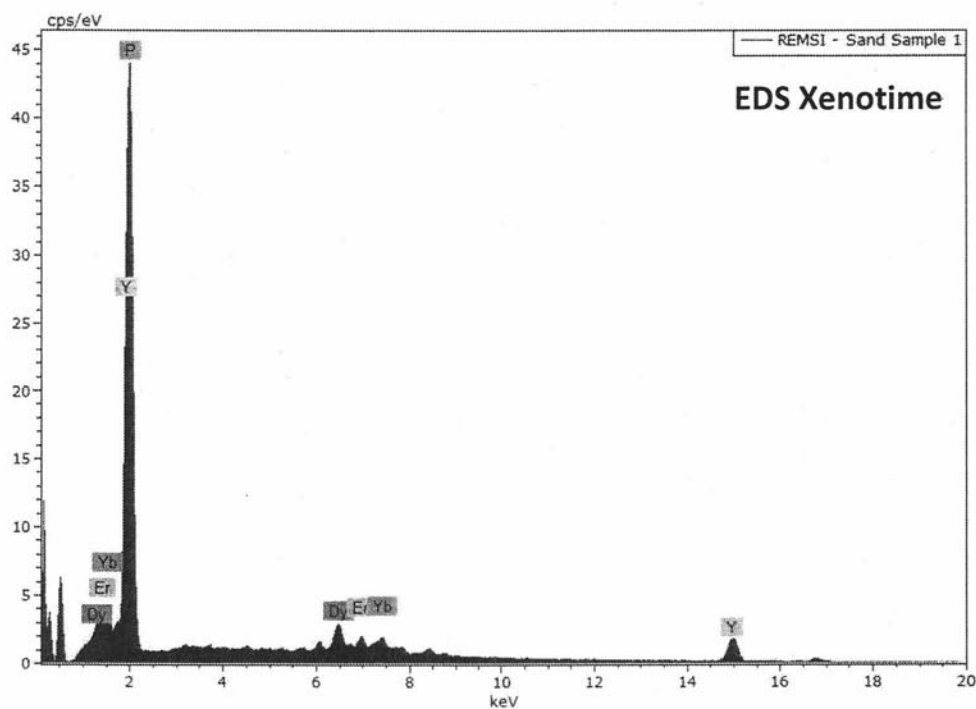
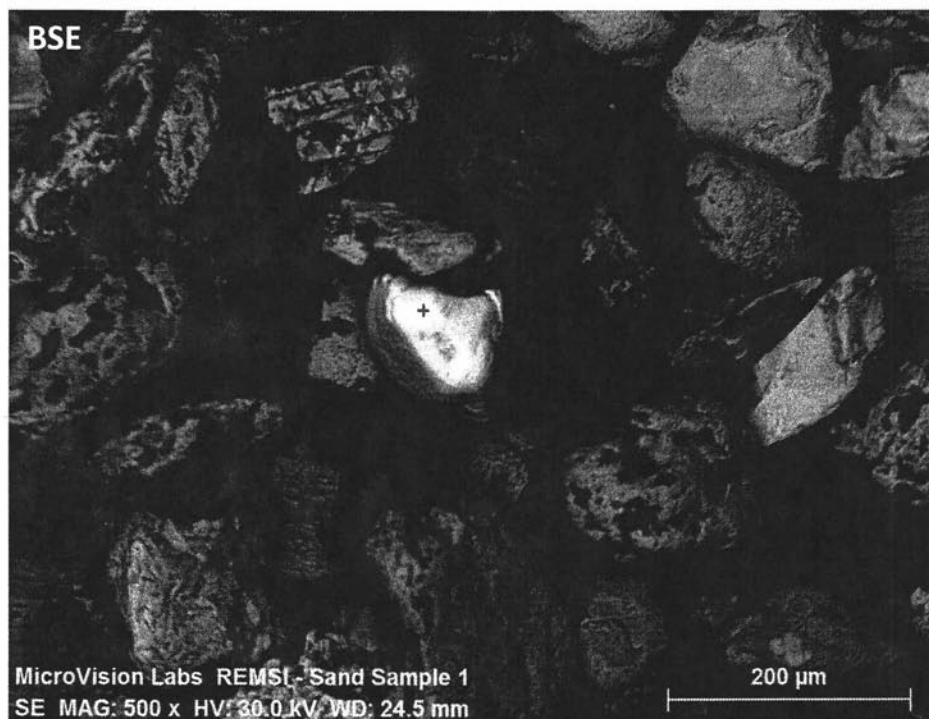


Fig. 8 Xenotime Grain and Corresponding EDS Plot – Spiral Concentrate

Xenotime (YPO_4) is only a trace mineral in this concentrate. It contains the heavy REE elements that are currently of value.

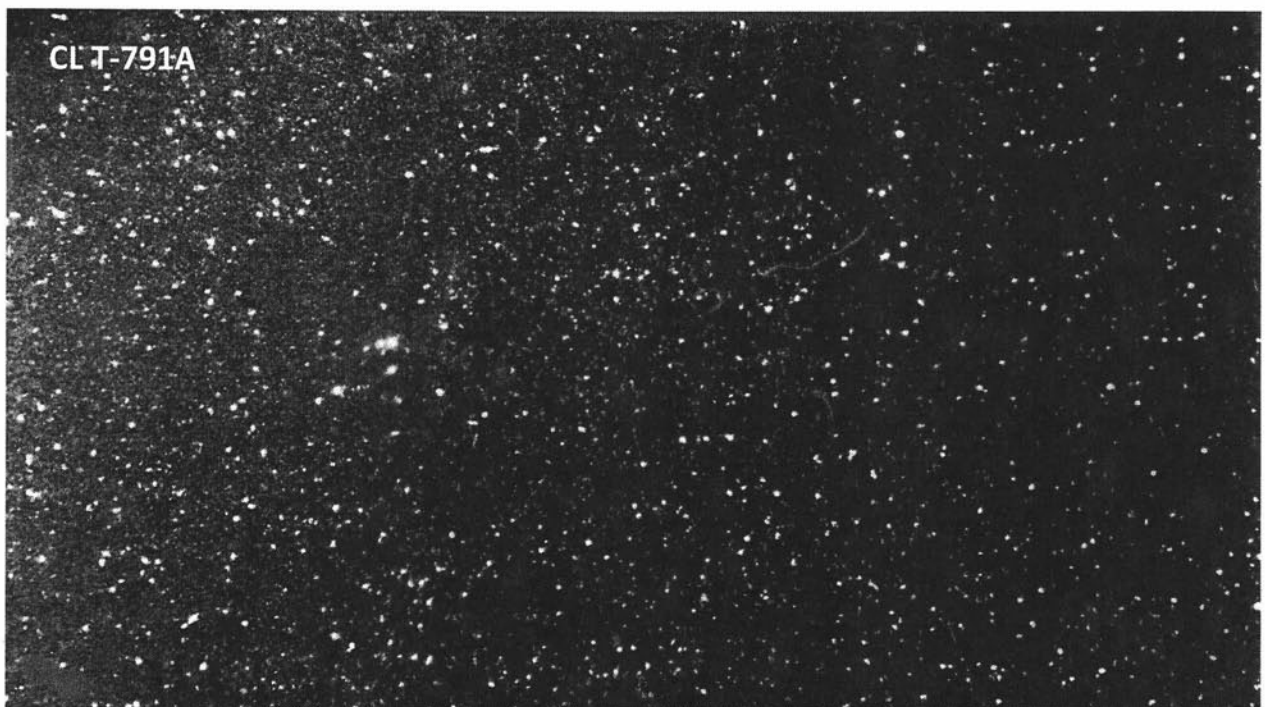
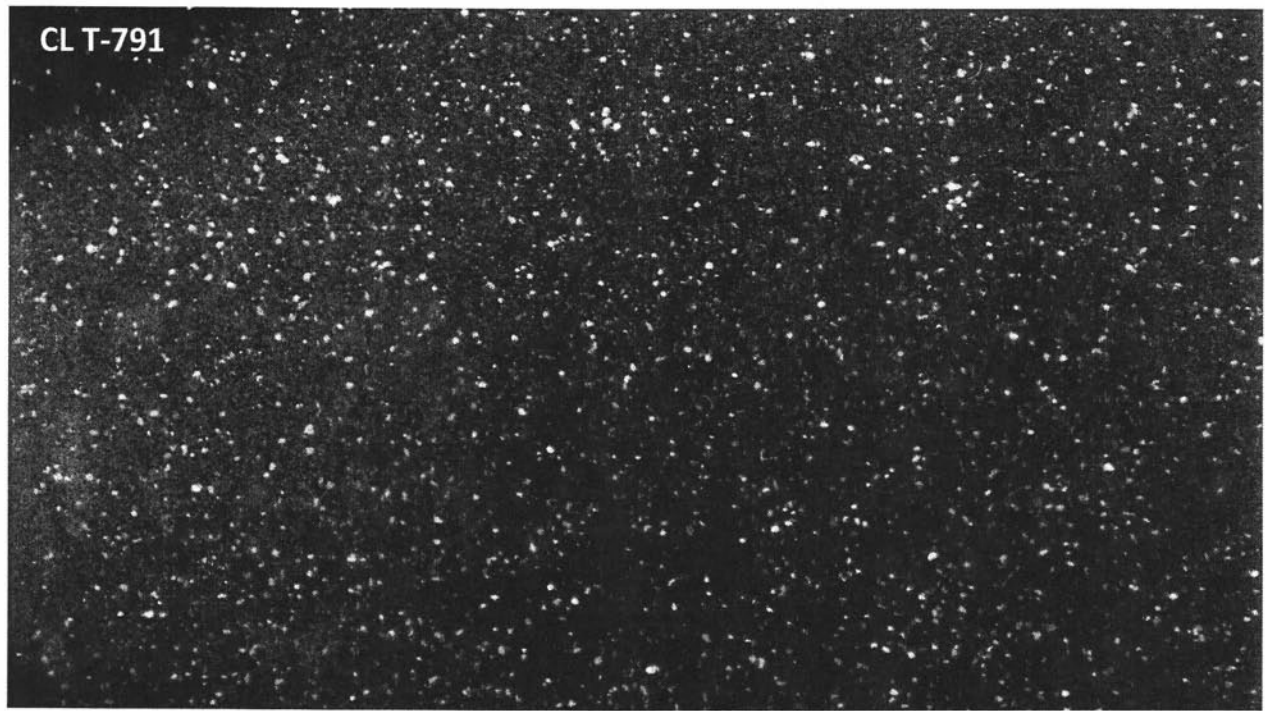


Fig. 9 CL Macrographs

T-791 – Sand Sample

T-791A – Spiral Concentrate

The yellow CL grains are apatite and zircon.

(Horizontal distance $\approx$ 46 mm)

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09019 Date of issue February 17, 2010

R

| Type of Work | | Amount Spent |
|--|--|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist; drilling supervision, core logging, sampling core, and field mapping | <u>1.5</u> days | 1,076.00 |
| 3. Trenching/stripping/re logging, sampling core, and field mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>12</u> # | 1,320.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid:
(a) Line cutting
(b) Picket setting
(c) Flagging | _____ km
_____ km
_____ km | |
| 7. Geophysical surveys
Airborne:
(a) EM/VLF
(b) Mag or Grad
(c) Radiometric
(d) Combination
(e) Other _____ | _____ km
_____ km
_____ km
_____ km
_____ km | |
| 8. Geophysical surveys
Ground:
(a) EM/VLF
(b) Seismic soundings
(c) Magnetic/telluric
(d) IP/resistivity
(e) Gravity
(f) Other _____ | _____ km
_____ #
_____ km
_____ km
_____ km
_____ km | |
| 9. Geochemical surveys
(a) Lake, stream, spring
(i) Water
(ii) Sediments
(b) (i) Rock
(ii) Core
(iii) Chips
(c) (i) Soil
(ii) Overburden
(d) Gas
(e) Biogeochemistry
(f) Sample collection
(g) Other _____ | _____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ days | |
| 10. Drilling:
(a) Diamond (# holes/m)
(b) Percussion (# holes/m)
(c) Rotary (# holes/m)
(d) Auger (# holes/m)
(e) Reverse circulation (# holes/m)
(f) Logging, supervision, etc.
(g) Sealing (# holes) | <u>2</u> / <u>8</u> m
_____ / _____ m
_____ / _____ m
_____ / _____ m
_____ / _____ m
_____ days
_____ # | 1,740.00 |
| 11. Other (describe)
River Runners Rafting Inc. | (boat contractor) | 540.00 |
| Subtotal | | |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 468.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 468.00 |
| Grand total | | 5,144.00 |

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

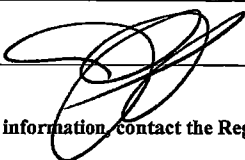
| Name | Address | Dates Worked |
|----------------------------|-----------------------------------|----------------------------------|
| Mr. James White | 102 Gerrish St, Windsor, N.S. | October 01 - November 15, 2011 |
| Mr. Cyril Cole | Dalhousie MEC, Halifax, N.S. | October 01 - November 15, 2011 |
| Mr. William G. Shaw | 4546 Highway #7, Antigonish, N.S. | October 01, 2011 - Feb. 15, 2012 |
| River Runners Rafting Inc. | 8681 Highway #215, Maitland, N.S. | October 01 - November 15, 2011 |
| Todal Bore Rafting Inc. | RR#4, Shubenacadie, N.S. | October 01 - November 15, 2011 |
| Mr. Ron Hilchey | Dartmouth, Nova Scotia | October 01 - November 15, 2011 |
| Mr. Tom Calkin | 102 Gerrish St, Windsor, N.S. | October 01, 2011 - Feb. 15, 2012 |
| Dalhousie MEC Laboratory | Sexton Campus, Halifax, N.S. | October 01, 2011 - Feb. 15, 2012 |
| Sonic Soil Sampling Inc. | Milway Avenue, Concord, Ontario | October 01 - November 15, 2011 |
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I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of Nova Scotia on February 13, 2012.

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature 

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

R

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09020 Date of issue February 17, 2010

| Type of Work | | Amount Spent |
|--|---|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>6.5</u> days | 4,304.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>48</u> # | 5,280.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | _____ samples | |
| (I) Water | _____ samples | |
| (II) Sediments | _____ samples | |
| (b) (I) Rock | _____ samples | |
| (II) Core | _____ samples | |
| (III) Chips | _____ samples | |
| (c) (I) Soil | _____ samples | |
| (II) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | _____ days | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | <u>8</u> / <u>8</u> m | 6,960.00 |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| River Runners Rafting Park Inc. | (boat contractor) | 2,161.00 |
| Subtotal | | 18,705.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 1,870.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 1,871.00 |
| Grand total | | 20,575.00 |

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

| Name | Address | Dates Worked |
|------------------------------|-----------------------------------|----------------------------------|
| Mr. James White | 102 Gerrish St, Windsor, N.S. | October 01 - November 15, 2011 |
| Mr. Cyril Cole | Dalhousie MEC, Halifax, N.S. | October 01 - November 15, 2011 |
| Mr. William G. Shaw | 4546 Highway #7, Antigonish, N.S. | October 01, 2011 - Feb. 15, 2012 |
| River Runners Rafting Inc. | 8681 Highway #215, Maitland, N.S. | October 01 - November 15, 2011 |
| Todal Bore Rafting Park Inc. | RR#4, Shubenacadie, N.S. | October 01 - November 15, 2011 |
| Mr. Ron Hinchey | Dartmouth, Nova Scotia | October 01 - November 15, 2011 |
| Mr. Tom Calkin | 102 Gerrish St, Windsor, N.S. | October 01, 2011 - Feb. 15, 2012 |
| Dalhousie MEC Laboratory | Sexton Campus, Halifax, N.S. | October 01, 2011 - Feb. 15, 2012 |
| Sonic Soil Sampling Inc. | Milway Avenue, Concord, Ontario | October 01 - November 15, 2011 |
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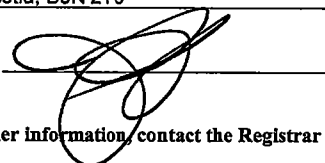
I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of Nova Scotia on February 13, 2012.

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature



For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09021 Date of issue February 17, 2010

R

| Type of Work | | Amount Spent |
|--|---|-----------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>1.0</u> days | 538.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>6</u> # | 660.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | _____ days | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | <u>1</u> / <u>4</u> m | 870.00 |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Tidal Bore Rafting Park Inc. | (boat contractor) | 270.00 |
| Subtotal | | 2,338.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 234.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 234.00 |
| Grand total | | 2,572.00 |

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

[illegible]

I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of **Nova Scotia** on **February 13**, **2012**

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature 

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

R

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09022 Date of issue February 17, 2010

| Type of Work | | Amount Spent |
|--|---|-----------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>1.0</u> days | 538.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>6</u> # | 660.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | <u>1</u> / <u>4</u> m | 870.00 |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Tidal Bore Rafting Park Inc. | (boat contractor) | 270.00 |
| Subtotal | | 2,338.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 234.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 234.00 |
| Grand total | | 2,572.00 |

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

[illegible]

I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of **Nova Scotia** on **February 13**, **2012**

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature _____

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09023 Date of issue February 17, 2010

R

| Type of Work | | Amount Spent |
|--|---|-----------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>2.0</u> days | 1,076.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>12</u> # | 1,320.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | _____ days | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | <u>2</u> / <u>8</u> m | 1,740.00 |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Tidal Bore Rafting Park Inc. | (boat contractor) | 540.00 |
| Subtotal | | 4,676.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 468.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 468.00 |
| Grand total | | 5,144.00 |

[illegible]

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of Nova Scotia on February 13, 2012

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature _____

For further information, contact the Registrar

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09024 Date of issue April 07, 2010

R

| Type of Work | | Amount Spent |
|--|---|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>2.0</u> days | 1,076.00 |
| 3. Trenching/stripping/re logging, sampling core, and field mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>12</u> # | 1,320.00 |
| 5. Other laboratory Petrology and Mineralogy (Dr. Mariano) | <u>1 composite</u> # | 5,955.00 |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | _____ days | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | <u>2</u> / <u>8</u> m | 1,740.00 |
| (b) Percussion (# holes/m) | _____ m | |
| (c) Rotary (# holes/m) | _____ m | |
| (d) Auger (# holes/m) | _____ m | |
| (e) Reverse circulation (# holes/m) | _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Tidal Bore Rafting Park Inc. | (boat contractor) | 540.00 |
| Subtotal | | 10,631.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 1,063.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 1,063.00 |
| Grand total | | 11,694.00 |

DEPT FEB 16 12:29

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

[illegible]

I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of **Nova Scotia** on **February 13**, **2012**

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature 

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09090 Date of issue April 07, 2010

R

| Type of Work | | Amount Spent |
|--|---|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>2.0</u> days | 1,076.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>12</u> # | 1,320.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | <u>2</u> / <u>8</u> m | 1,740.00 |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Tidal Bore Rafting Park Inc. | (boat contractor) | 540.00 |
| Subtotal | | 4,676.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 468.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 468.00 |
| Grand total | | 5,144.00 |

[illegible]

As President I am duly authorized to make this certification.
(position in company or licensee)
Dated at Windsor in the Province of Nova Scotia on February 13, 2012.
Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature 

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Map _____
Refs. _____

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09091 Date of issue April 07, 2010

| Type of Work | | Amount Spent |
|--|--|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>3.0</u> days | 1,614.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>18</u> # | 1,980.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid:
(a) Line cutting
(b) Picket setting
(c) Flagging | _____ km
_____ km
_____ km | |
| 7. Geophysical surveys
Airborne:
(a) EM/VLF
(b) Mag or Grad
(c) Radiometric
(d) Combination
(e) Other _____ | _____ km
_____ km
_____ km
_____ km
_____ km | |
| 8. Geophysical surveys
Ground:
(a) EM/VLF
(b) Seismic soundings
(c) Magnetic/telluric
(d) IP/resistivity
(e) Gravity
(f) Other _____ | _____ km
_____ #
_____ km
_____ km
_____ km
_____ km | |
| 9. Geochemical surveys
(a) Lake, stream, spring
(i) Water
(ii) Sediments
(b) (i) Rock
(ii) Core
(iii) Chips
(c) (i) Soil
(ii) Overburden
(d) Gas
(e) Biogeochemistry
(f) Sample collection
(g) Other _____ | _____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ days | |
| 10. Drilling:
(a) Diamond (# holes/m)
(b) Percussion (# holes/m)
(c) Rotary (# holes/m)
(d) Auger (# holes/m)
(e) Reverse circulation (# holes/m)
(f) Logging, supervision, etc.
(g) Sealing (# holes) | <u>3</u> / <u>12</u> m
_____ / _____ m
_____ / _____ m
_____ / _____ m
_____ / _____ m
_____ days
_____ # | 2,610.00 |
| 11. Other (describe)
Tidal Bore Rafting Park Inc. | (boat contractor) | 810.00 |
| Subtotal | | 7,014.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 702.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 702.00 |
| Grand total | | 7,716.00 |

[illegible]

As President I am duly authorized to make this certification.
(position in company or licensee)

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature _____

2 of 2

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09092 Date of issue April 07, 2010

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| Type of Work | | Amount Spent |
|--|---|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>1.0</u> days | 538.00 |
| 3. Trenching/stripping/re logging, sampling core, and field mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>6</u> # | 660.00 |
| 5. Other laboratory Petrology and Mineralogy (Dr. Mariano) | <u>1 composite</u> # | 5,955.00 |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | _____ days | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | _____ / _____ m | |
| (b) Percussion (# holes/m) | <u>1</u> / <u>4</u> m | 870.00 |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Tidal Bore Rafting Park Inc. | (boat contractor) | 270.00 |
| Subtotal | | 8,293.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 829.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 829.00 |
| Grand total | | 9,122.00 |

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As President I am duly authorized to make this certification.
(position in company or licensee)
Dated at Windsor in the Province of Nova Scotia on February 13, 2012
Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature

2 of 2

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09093 Date of issue April 07, 2010

R

| Type of Work | | Amount Spent |
|--|--|------------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist; drilling supervision, core logging, sampling core, and field mapping | <u>8.0</u> days | 4,304.00 |
| 3. Trenching/stripping/re logging, sampling core, and field mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>48</u> # | 5,280.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid:
(a) Line cutting
(b) Picket setting
(c) Flagging | _____ km
_____ km
_____ km | |
| 7. Geophysical surveys
Airborne:
(a) EM/VLF
(b) Mag or Grad
(c) Radiometric
(d) Combination
(e) Other _____ | _____ km
_____ km
_____ km
_____ km
_____ km | |
| 8. Geophysical surveys
Ground:
(a) EM/VLF
(b) Seismic soundings
(c) Magnetic/telluric
(d) IP/resistivity
(e) Gravity
(f) Other _____ | _____ km
_____ #
_____ km
_____ km
_____ km
_____ km | |
| 9. Geochemical surveys
(a) Lake, stream, spring
(i) Water
(ii) Sediments
(b) (i) Rock
(ii) Core
(iii) Chips
(c) (i) Soil
(ii) Overburden
(d) Gas
(e) Biogeochemistry
(f) Sample collection
(g) Other _____ | _____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ days | |
| 10. Drilling:
(a) Diamond (# holes/m)
(b) Percussion (# holes/m)
(c) Rotary (# holes/m)
(d) Auger (# holes/m)
(e) Reverse circulation (# holes/m)
(f) Logging, supervision, etc.
(g) Sealing (# holes) | <u>8</u> / <u>32</u> m
_____ m
_____ m
_____ m
_____ m
_____ days
_____ # | 6,960.00 |
| 11. Other (describe)
Tidal Bore Rafting Park Inc. | (boat contractor) | 2,160.00 |
| Subtotal | | 18,704.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 1,871.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 1,871.00 |
| Grand total | | 20,575.00 |

[illegible]

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of Nova Scotia on February 13, 2012

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09094 Date of issue April 07, 2010

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| Type of Work | | Amount Spent |
|--|--|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>4.0</u> days | 2,152.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>24</u> # | 2,640.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ km | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | _____ days | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | _____ / _____ m | |
| (b) Percussion (# holes/m) | <u>4</u> / <u>16</u> m | 3,480.00 |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| River Runners Rafting Inc. | (boat contractor) | 1,080.00 |
| Subtotal | | 9,352.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) | includes office expenses, field supplies, travel expenses, etc.) | 936.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 936.00 |
| Grand total | | 10,288.00 |

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

| Name | Address | Dates Worked |
|----------------------------|-----------------------------------|----------------------------------|
| Mr. James White | 102 Gerrish St, Windsor, N.S. | October 01 - November 15, 2011 |
| Mr. Cyril Cole | Dalhousie MEC, Halifax, N.S. | October 01 - November 15, 2011 |
| Mr. William G. Shaw | 4546 Highway #7, Antigonish, N.S. | October 01, 2011 - Feb. 15, 2012 |
| River Runners Rafting Ltd. | 8681 Highway #215, Maitland, N.S. | October 01 - November 15, 2011 |
| Todal Bore Rafting Inc. | RR#4, Shubenacadie, N.S. | October 01 - November 15, 2011 |
| Mr. Ron Hilchey | Dartmouth, Nova Scotia | October 01 - November 15, 2011 |
| Mr. Tom Calkin | 102 Gerrish St, Windsor, N.S. | October 01, 2011 - Feb. 15, 2012 |
| Dalhousie MEC Laboratory | Sexton Campus, Halifax, N.S. | October 01, 2011 - Feb. 15, 2012 |
| Sonic Soil Sampling Inc. | Milway Avenue, Concord, Ontario | October 01 - November 15, 2011 |
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I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of Nova Scotia on February 13, 2012.

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09096 Date of issue April 07, 2010

R

| Type of Work | | Amount Spent |
|--|---|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>2.0</u> days | 1,000.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | _____ # | |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | includes drilling supervision, sample collection and handling | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | _____ days | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | _____ / _____ m | |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Subtotal | | 1,000.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 100.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 100.00 |
| Grand total | | 1,100.00 |

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List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

[illegible]

I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of **Nova Scotia** on **February 13**, **2012**

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature [Signature]

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09186 Date of issue July 28, 2010

R

| Type of Work | | Amount Spent |
|--|---|------------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>10.0</u> days | 5,380.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>60</u> # | 6,600.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid:
(a) Line cutting
(b) Picket setting
(c) Flagging | _____ km
_____ km
_____ km | |
| 7. Geophysical surveys
Airborne:
(a) EM/VLF
(b) Mag or Grad
(c) Radiometric
(d) Combination
(e) Other _____ | _____ km
_____ km
_____ km
_____ km
_____ km | |
| 8. Geophysical surveys
Ground:
(a) EM/VLF
(b) Seismic soundings
(c) Magnetic/telluric
(d) IP/resistivity
(e) Gravity
(f) Other _____ | _____ km
_____ #
_____ km
_____ km
_____ km
_____ km | |
| 9. Geochemical surveys
(a) Lake, stream, spring
(i) Water
(ii) Sediments
(b) (i) Rock
(ii) Core
(iii) Chips
(c) (i) Soil
(ii) Overburden
(d) Gas
(e) Biogeochemistry
(f) Sample collection
(g) Other _____ | _____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ days
_____ | |
| 10. Drilling:
(a) Diamond (# holes/m)
(b) Percussion (# holes/m)
(c) Rotary (# holes/m)
(d) Auger (# holes/m)
(e) Reverse circulation (# holes/m)
(f) Logging, supervision, etc.
(g) Sealing (# holes) | <u>10</u> / <u>40</u> m
_____ m
_____ m
_____ m
_____ m
_____ days
_____ # | 8,700.00 |
| 11. Other (describe)
Tidal Bore Rafting Park Inc. | (boat contractor) | 2,700.00 |
| Subtotal | | 23,380.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 2,339.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 2,339.00 |
| Grand total | | 25,719.00 |

[illegible]

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at February 15, 2012 in the Province of Nova Scotia on _____.

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09187 Date of issue July 28, 2010

R

| Type of Work | | Amount Spent |
|--|--|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist; drilling supervision, core logging, sampling core, and field mapping | <u>5.0</u> days | 2,690.00 |
| 3. Trenching/stripping/re logging, sampling core, and field mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>30</u> # | 3,300.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | _____ days | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | <u>5</u> / <u>20</u> m | 4,350.00 |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Tidal Bore Rafting Park Inc. | (boat contractor) | 1,350.00 |
| Subtotal | | 11,690.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) | includes office expenses, field supplies, travel expenses, etc.) | 1,170.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 1,170.00 |
| Grand total | | 12,860.00 |

[illegible]

As President I am duly authorized to make this certification.
(position in company or licensee)

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature 

2 of 2

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Map _____
Refs. _____

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09196 Date of issue July 28, 2010

R

| Type of Work | | Amount Spent |
|--|--|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>0.5</u> days | 250.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | _____ # | |
| 5. Other laboratory | _____ # | |
| 6. Grid:
(a) Line cutting
(b) Picket setting
(c) Flagging | _____ km
_____ km
_____ km | |
| 7. Geophysical surveys
Airborne:
(a) EM/VLF
(b) Mag or Grad
(c) Radiometric
(d) Combination
(e) Other _____ | _____ km
_____ km
_____ km
_____ km
_____ km | |
| 8. Geophysical surveys
Ground:
(a) EM/VLF
(b) Seismic soundings
(c) Magnetic/telluric
(d) IP/resistivity
(e) Gravity
(f) Other _____ | _____ km
_____ #
_____ km
_____ km
_____ km
_____ km | |
| 9. Geochemical surveys
(a) Lake, stream, spring
(i) Water
(ii) Sediments
(b) (i) Rock
(ii) Core
(iii) Chips
(c) (i) Soil
(ii) Overburden
(d) Gas
(e) Biogeochemistry
(f) Sample collection
(g) Other _____ | _____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ days | |
| 10. Drilling:
(a) Diamond (# holes/m)
(b) Percussion (# holes/m)
(c) Rotary (# holes/m)
(d) Auger (# holes/m)
(e) Reverse circulation (# holes/m)
(f) Logging, supervision, etc.
(g) Sealing (# holes) | _____ / _____ m
_____ / _____ m
_____ / _____ m
_____ / _____ m
_____ / _____ m
_____ days
_____ # | |
| 11. Other (describe)
Tidal Bore Rafting Park Inc. | (boat contractor) | |
| Subtotal | | 250.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 25.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 25.00 |
| Grand total | | 275.00 |

RECEIVED FEB 15 '12 12:28

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

[illegible]

I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at February 15, 2012 in the Province of Nova Scotia on _____.

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature _____

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

LIC Lapsed

Map _____
Refs. _____

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09197 Date of issue July 28, 2010

R

| Type of Work | | Amount Spent |
|--|---|---------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>0.5</u> days | 250.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | _____ # | |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | _____ / _____ m | |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Subtotal | | 250.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 25.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 25.00 |
| Grand total | | 275.00 |

DUPLICATE FEB 12 2011 12:28

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

[illegible]

I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of **Nova Scotia** on **February 13**, 2012

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09198 Date of issue July 28, 2010

R

| Type of Work | | Amount Spent |
|--|--|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>1.0</u> days | 538.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>6</u> # | 660.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid:
(a) Line cutting
(b) Picket setting
(c) Flagging | _____ km
_____ km
_____ km | |
| 7. Geophysical surveys
Airborne:
(a) EM/VLF
(b) Mag or Grad
(c) Radiometric
(d) Combination
(e) Other _____ | _____ km
_____ km
_____ km
_____ km
_____ km | |
| 8. Geophysical surveys
Ground:
(a) EM/VLF
(b) Seismic soundings
(c) Magnetic/telluric
(d) IP/resistivity
(e) Gravity
(f) Other _____ | _____ km
_____ #
_____ km
_____ km
_____ km
_____ km | |
| 9. Geochemical surveys
(a) Lake, stream, spring
(i) Water
(ii) Sediments
(b) (i) Rock
(ii) Core
(iii) Chips
(c) (i) Soil
(ii) Overburden
(d) Gas
(e) Biogeochemistry
(f) Sample collection
(g) Other _____ | _____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ days | |
| 10. Drilling:
(a) Diamond (# holes/m)
(b) Percussion (# holes/m)
(c) Rotary (# holes/m)
(d) Auger (# holes/m)
(e) Reverse circulation (# holes/m)
(f) Logging, supervision, etc.
(g) Sealing (# holes) | <u>1</u> / <u>4</u> m
_____ / _____ m
_____ / _____ m
_____ / _____ m
_____ / _____ m
_____ days
_____ # | 870.00 |
| 11. Other (describe)
Tidal Bore Rafting Park Inc. | (boat contractor) | 270.00 |
| Subtotal | | 2,068.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 234.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 234.00 |
| Grand total | | 2,572.00 |

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

[illegible]

I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of **Nova Scotia** on **February 13**, **2012**

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature 

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

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Map _____
Refs. _____

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09199 Date of issue July 28, 2010

R

| Type of Work | | Amount Spent |
|--|---|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>0.5</u> days | 250.00 |
| 3. Trenching/stripping/re logging, sampling core, and field mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | _____ # | |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ samples | |
| (g) Other _____ | _____ days | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | _____ / _____ m | |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Tidal Bore Rafting Park Inc. | (boat contractor) | |
| Subtotal | | 250.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) | | 25.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 25.00 |
| Grand total | | 275.00 |

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

| Name | Address | Dates Worked |
|----------------------------|-----------------------------------|----------------------------------|
| Mr. James White | 102 Gerrish St, Windsor, N.S. | October 01 - November 15, 2011 |
| Mr. Cyril Cole | Dalhousie MEC, Halifax, N.S. | October 01 - November 15, 2011 |
| Mr. William G. Shaw | 4546 Highway #7, Antigonish, N.S. | October 01, 2011 - Feb. 15, 2012 |
| River Runners Rafting Ltd. | 8681 Highway #215, Maitland, N.S. | October 01 - November 15, 2011 |
| Total Bore Rafting Inc. | RR#4, Shubenacadie, N.S. | October 01 - November 15, 2011 |
| Mr. Ron Hiltchey | Dartmouth, Nova Scotia | October 01 - November 15, 2011 |
| Mr. Tom Calkin | 102 Gerrish St, Windsor, N.S. | October 01, 2011 - Feb. 15, 2012 |
| Dalhousie MEC Laboratory | Sexton Campus, Halifax, N.S. | October 01, 2011 - Feb. 15, 2012 |
| Sonic Soil Sampling Inc. | Milway Avenue, Concord, Ontario | October 01 - November 15, 2011 |
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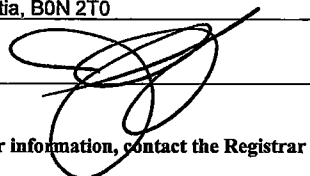
I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of Nova Scotia on February 13, 2012.

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature



For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09201 Date of issue July 28, 2010

R

| Type of Work | | Amount Spent |
|--|---|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>1.0</u> days | 538.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>6</u> # | 660.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | _____ days | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | <u>1</u> / <u>4</u> m | 870.00 |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Tidal Bore Rafting Park Inc. | (boat contractor) | 270.00 |
| Subtotal | | 2,338.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 234.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 234.00 |
| Grand total | | 2,572.00 |

DUPLICATE PERIOD 12:28

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

[illegible]

I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of Nova Scotia on **February 13**, 2012

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature [Signature]

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

LIC Lapsed


 Map _____
 Refs. _____

Form 10 - Statement of Assessment Work Expenditure
 (pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

 Re: Licence No. 09202 Date of issue July 28, 2010

| Type of Work | | Amount Spent |
|--|---|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>0.5</u> days | 250.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | _____ # | |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | _____ days | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | _____ / _____ m | |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Subtotal | | 250.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 25.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 25.00 |
| Grand total | | 275.00 |

[illegible]

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of Nova Scotia on February 13, 2012

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature 

For further information, contact the Registrar

2 of 2

LIC Lapsed

Map _____
Refs. _____

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09203 Date of issue July 28, 2010

| Type of Work | | Amount Spent |
|--|---|---------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>0.5</u> days | 250.00 |
| 3. Trenching/stripping/re logging, sampling core, and field mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | _____ # | |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | _____ / _____ m | |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| Subtotal | | 250.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 25.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 25.00 |
| Grand total | | 275.00 |

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

[illegible]

I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of **Nova Scotia** on **February 13**, **2012.**

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09381 Date of issue October 27, 2010

| Type of Work | | Amount Spent |
|--|---|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>4.0</u> days | 2,152.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>24</u> # | 2,640.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | <u>4</u> / <u>16</u> m | 3,480.00 |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| River Runners Rafting Ltd. | (boat contractor) | 1,080.00 |
| Subtotal | | 9,352.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 936.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 936.00 |
| Grand total | | 10,288.00 |

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

[illegible]

I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor _____ **in the Province of Nova Scotia** _____ **on February 13** _____, **2012** _____

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature 

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09382 Date of issue October 27, 2010

| Type of Work | | Amount Spent |
|--|---|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>5.0</u> days | 2,690.00 |
| 3. Trenching/stripping/re mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>30</u> # | 3,300.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | <u>5</u> / <u>20</u> m | 4,350.00 |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| River Runners Rafting Ltd. | (boat contractor) | 1,350.00 |
| Subtotal | | 11,690.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 1,170.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 1,170.00 |
| Grand total | | 12,860.00 |

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

[illegible]

I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As President I am duly authorized to make this certification.
(position in company or licensee)

Dated at Windsor in the Province of **Nova Scotia** on **February 13**, **2012**

Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09383 Date of issue October 27, 2010

R

| Type of Work | | Amount Spent |
|--|--|-----------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>1.0</u> days | 538.00 |
| 3. Trenching/stripping/re logging, sampling core, and field mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | <u>6</u> # | 660.00 |
| 5. Other laboratory | _____ # | |
| 6. Grid:
(a) Line cutting
(b) Picket setting
(c) Flagging | _____ km
_____ km
_____ km | |
| 7. Geophysical surveys
Airborne:
(a) EM/VLF
(b) Mag or Grad
(c) Radiometric
(d) Combination
(e) Other _____ | _____ km
_____ km
_____ km
_____ km
_____ km | |
| 8. Geophysical surveys
Ground:
(a) EM/VLF
(b) Seismic soundings
(c) Magnetic/telluric
(d) IP/resistivity
(e) Gravity
(f) Other _____ | _____ km
_____ #
_____ km
_____ km
_____ km
_____ km | |
| 9. Geochemical surveys
(a) Lake, stream, spring
(i) Water
(ii) Sediments
(b) (i) Rock
(ii) Core
(iii) Chips
(c) (i) Soil
(ii) Overburden
(d) Gas
(e) Biogeochemistry
(f) Sample collection
(g) Other _____ | _____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ samples
_____ days | |
| 10. Drilling:
(a) Diamond (# holes/m)
(b) Percussion (# holes/m)
(c) Rotary (# holes/m)
(d) Auger (# holes/m)
(e) Reverse circulation (# holes/m)
(f) Logging, supervision, etc.
(g) Sealing (# holes) | _____ / _____ m
<u>1</u> / <u>4</u> m
_____ / _____ m
_____ / _____ m
_____ / _____ m
_____ days
_____ # | 870.00 |
| 11. Other (describe)
River Runners Rafting Ltd. | (boat contractor) | 270.00 |
| Subtotal | | 2,338.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 234.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 234.00 |
| Grand total | | 2,572.00 |

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As President I am duly authorized to make this certification.
(position in company or licensee)
Dated at Windsor in the Province of Nova Scotia on February 13, 2012
Name and address of licensee: Rare Earth Mineral Sands Inc., 102 Gerrish Street, Windsor,
Nova Scotia, B0N 2T0

Signature

2 of 2

Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09384 Date of issue October 27, 2010

| Type of Work | | Amount Spent |
|--|---|--------------|
| 1. Prospecting | _____ days | |
| 2. Geological mapping includes one field technician and one geoscientist: drilling supervision, core logging, sampling core, and field mapping | <u>3.0</u> days | 1,000.00 |
| 3. Trenching/stripping/re logging, sampling core, and field mapping | _____ m ² / _____ m ³ | |
| 4. Assaying & whole rock analysis | _____ # | |
| 5. Other laboratory | _____ # | |
| 6. Grid: | | |
| (a) Line cutting | _____ km | |
| (b) Picket setting | _____ km | |
| (c) Flagging | _____ km | |
| 7. Geophysical surveys | | |
| Airborne: | | |
| (a) EM/VLF | _____ km | |
| (b) Mag or Grad | _____ km | |
| (c) Radiometric | _____ km | |
| (d) Combination | _____ km | |
| (e) Other _____ | _____ km | |
| 8. Geophysical surveys | | |
| Ground: | | |
| (a) EM/VLF | _____ km | |
| (b) Seismic soundings | _____ # | |
| (c) Magnetic/telluric | _____ km | |
| (d) IP/resistivity | _____ km | |
| (e) Gravity | _____ km | |
| (f) Other _____ | _____ km | |
| 9. Geochemical surveys | | |
| (a) Lake, stream, spring | | |
| (i) Water | _____ samples | |
| (ii) Sediments | _____ samples | |
| (b) (i) Rock | _____ samples | |
| (ii) Core | _____ samples | |
| (iii) Chips | _____ samples | |
| (c) (i) Soil | _____ samples | |
| (ii) Overburden | _____ samples | |
| (d) Gas | _____ samples | |
| (e) Biogeochemistry | _____ samples | |
| (f) Sample collection | _____ days | |
| (g) Other _____ | | |
| 10. Drilling: | | |
| (a) Diamond (# holes/m) | _____ / _____ m | |
| (b) Percussion (# holes/m) | _____ / _____ m | |
| (c) Rotary (# holes/m) | _____ / _____ m | |
| (d) Auger (# holes/m) | _____ / _____ m | |
| (e) Reverse circulation (# holes/m) | _____ / _____ m | |
| (f) Logging, supervision, etc. | _____ days | |
| (g) Sealing (# holes) | _____ # | |
| 11. Other (describe) | | |
| River Runners Rafting Ltd. | (boat contractor) | |
| Subtotal | | 1,000.00 |
| Overhead costs | | |
| 12. Secretarial services | | |
| 13. Drafting services | | |
| 14. Office expenses (rent, heat, light, etc.) includes office expenses, field supplies, travel expenses, etc.) | | 100.00 |
| 15. Field supplies | | |
| 16. Compensation paid to landowners | | |
| 17. Legal fees | | |
| 18. Other (describe) | | |
| Subtotal | | 100.00 |
| Grand total | | 1,100.00 |

[illegible]

Signature 

For further information, contact the Registrar

2 of 2

Rare Earth Earth Mineral Sands Inc.

| Bar Number | Dil Hole Number | Sample Number | From | | | Recovery | Sample Weight and Heavy Metals | | | Medium and Heavy Metals | | | Major Elements | | | | | | | | | | | | | | | | Cu | Fe | Mn | K | Ca | Mg | Al | Si | Ti | V | Ni | Co | Cr | Mn | Pb | Cd | Hg | As | Sb | Se | Te | Mo | W | Bi | Po | At | Fr | Ra | Ac | Th | Pa | U | Pu | Am | Cm | Bk | Cf | Es | Fm | Md | No | Lr | Lu | Hf | Ta | Nb | Mo | Tc | Ru | Rh | Pd | Ag | Au | Pt | Ir | Os | Ir | Pt | Au | Pt</ |
|------------|-----------------|---------------|------|--|--|----------|--------------------------------|--|--|-------------------------|--|--|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|----|----|---|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|------|
|------------|-----------------|---------------|------|--|--|----------|--------------------------------|--|--|-------------------------|--|--|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|----|----|---|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|------|