8th August 2023 ASX Announcement

HIGH GRADE REE RESULTS FROM MAIDEN DRILLING PROGRAM AT GRØNNEDAL, GREENLAND

- **Maiden drilling program at Grønnedal returns rare earth element (REE) mineralisation for full length of all drill holes**
- **Drilling results confirm high ratios of up to 50% of praseodymium and neodymium (Pr+Nd).**
- **Best total rare earth oxides (TREO) assay results from shallow[1] drilling program at Grønnedal include:**
  - **from 0.0m - 22m @ 9,052ppm TREO – EOH[1] 22.0m**
  - **from 0.0m - 20m @ 7,132ppm TREO - EOH 20.0m (60°)**
  - **from 0.0m - 6.0m @ 9,198ppm TREO - EOH 6.0m (34% Pr+Nd in TREO)**
  - **from 0.0 - 1.5m @ 16,586ppm TREO - EOH 1.5m (34% Pr+Nd in TREO)**
  - **from 0.0 - 6.0m @ 8,611ppm TREO - EOH 6.0m**
  - **from 0.0 – 9.0m @ 5,645ppm TREO – EOH 9.0m, *including* 1.5m @ 5,326ppm TREO 7.5 - 9.0m - EOH (50% Pr+Nd in TREO)**

- **Assay results recorded low uranium values which are well below the Greenland Government's recently legislated maximum of 100ppm**
- **REE mineralisation at Grønnedal is widespread and deep-seated**
- **Diamond drilling to test Grønnedal depth potential expected in Q4 2023**

Eclipse Metals Ltd (**Eclipse** or the **Company**) (ASX: EPM) is pleased to announce drill hole sample assay results for samples from its 2022 maiden percussion drilling program on the Grønnedal REE prospect within its 100% owned Ivigtût multi-commodity project in SW Greenland. Assay results, together with previous geological and geophysical assessments indicate that REE mineralisation at Grønnedal is widespread and deep-seated.

Executive Chairman Carl Popal commented:

"These initial results from shallow drill-holes at Grønnedal confirm the REE-rich nature of the carbonatite body and indicate the presence of several promising targets from surface which remain open at depth and along strike. The geophysical assessment confirmed the deep - seated nature of the host to this REE mineralisation, suggesting a sizeable REE target. With recent approval of the 2023 Grønnedal diamond drilling program, the company is poised to initiate an in-depth assessment of the REE potential.

The prospective nature of REEs at both Grønnedal and Ivigtût aligns with our strategic goal of developing the project as an asset to be a world-class player in metals and minerals crucial for the

[1] *Maximum downhole length in this drilling program was 22m.*

green energy industry. Eclipse is dedicated to actively exploring the Grønnedal prospect, as well as the nearby historical Ivigtût pit throughout the course of 2023."

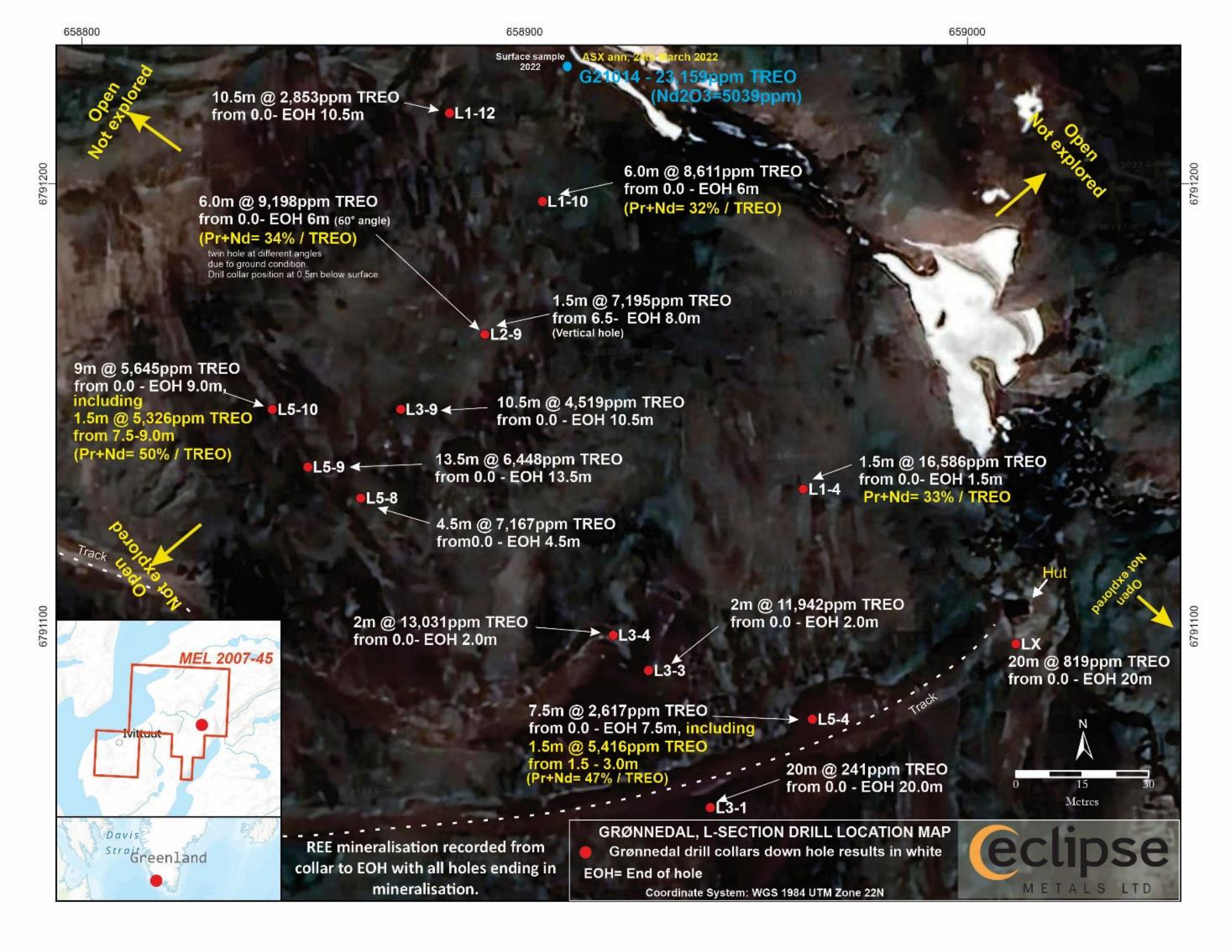

Figure 1. Grønnedal drilling results from the 'lower section' with REO mineralisation intersected in all drill holes.

Results in this release relate to 27 shallow percussion drill holes completed at *Grønnedal,* where all drill holes encountered REE mineralisation from surface to end of hole. Eclipse's maiden drilling program at *Grønnedal* has provided a better understanding of the geology and geochemistry of the ground and the holes were generally drilled to blade refusal, with limitation of the drill rig handling the ground conditions. A maximum depth of 22m was achieved in some locations (refer to Table 1). The drilling program was completed in October 2022 with samples shipped from Greenland to Australia for laboratory assessment.

Laboratory results for the initial over-limit values (+1,000ppm) for drillhole samples have now been received following further testing using appropriate methods. The complete REO drilling results for *Grønnedal* are listed in Table 2.

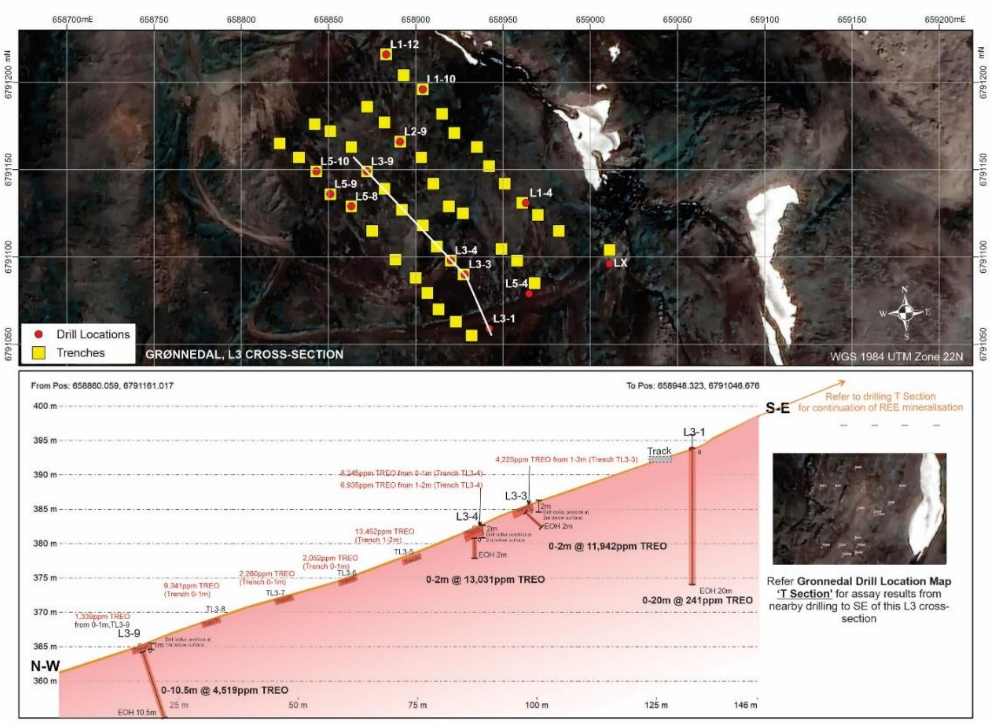

Figure 2. Grønnedal cross section L3-1 to L3-9 showing drilling and trenching results in the 'lower section'.

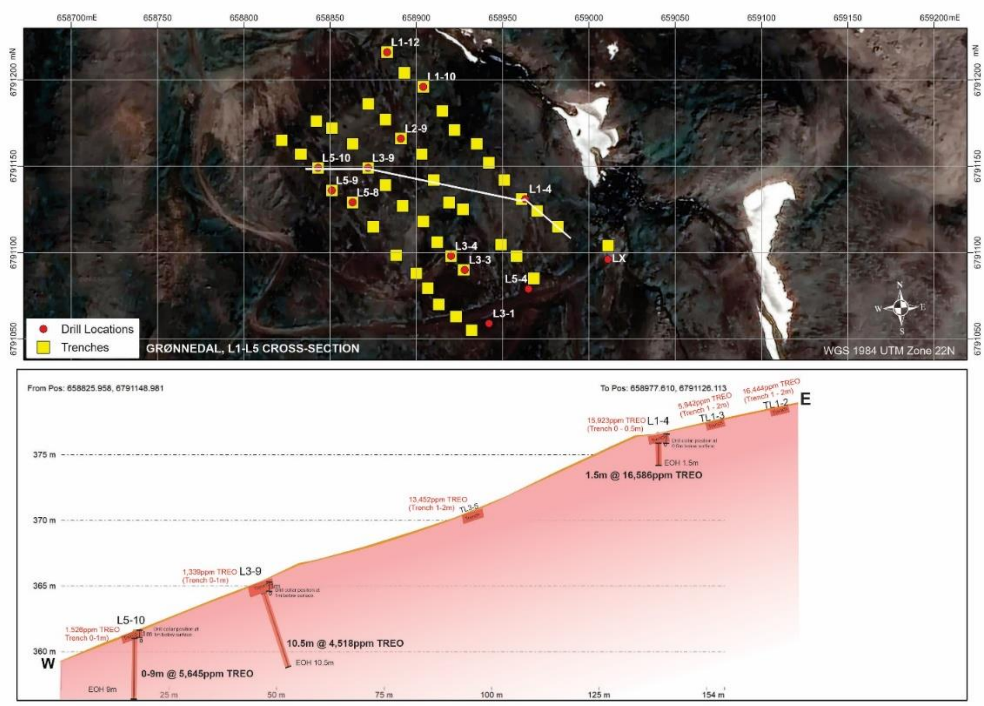

Figure 3. Grønnedal cross section L1-4 to L5-10 showing results in the lower section from drilling and trenching.

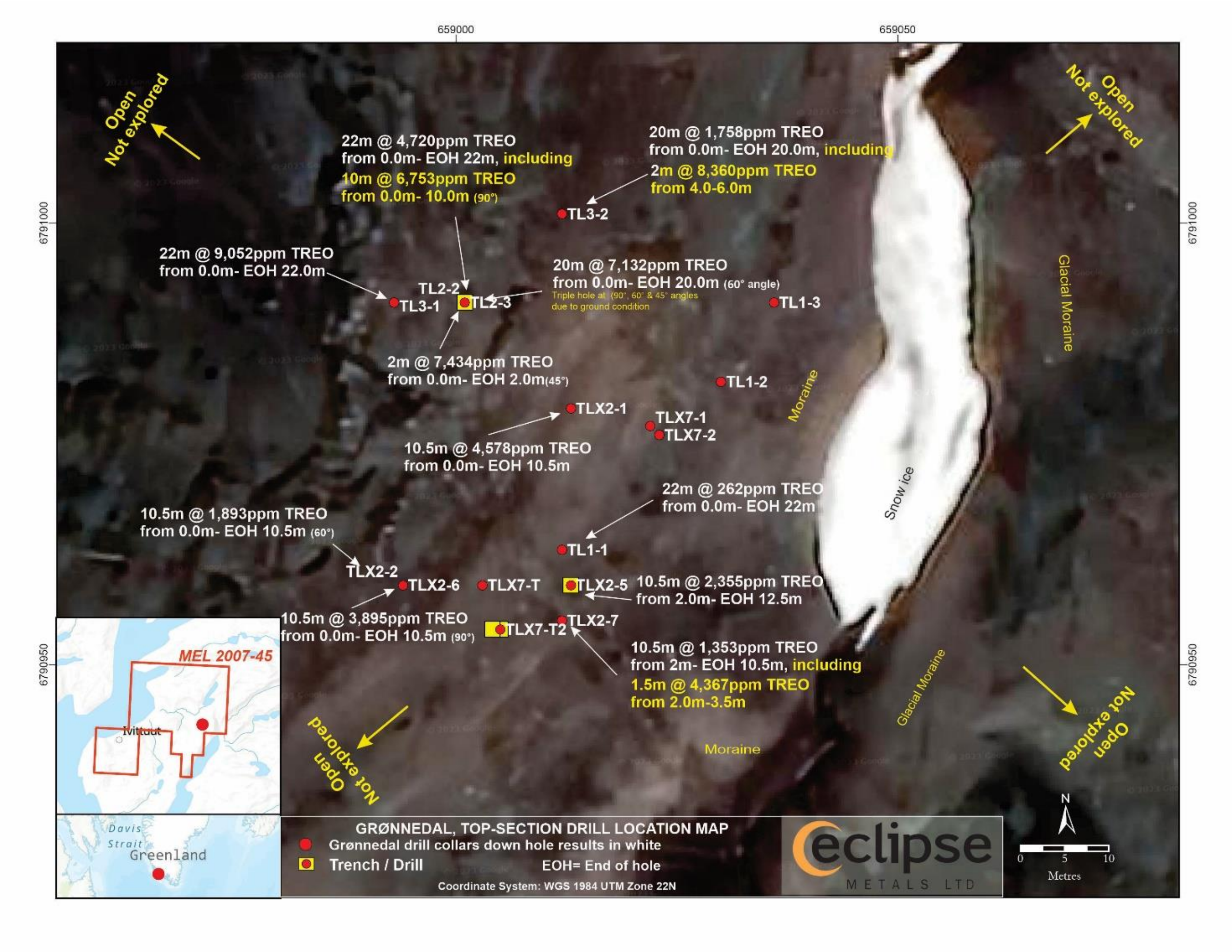

Figure 4. Grønnedal drilling results in 'top section' with REO mineralisation in all drillholes.

Note: Drill hole ID TL2-1, TL2-2 and TL2-3 were drilled from the same collar location at different angles due to difficult ground conditions

Analytical values for drill samples from the lower section of the Grønnedal carbonatite prospect indicate a substantial increase in the Nd ratio compared to the top section drilling results. In the lower section Nd values in the carbonate impregnated rocks is higher than the top section Nd values in carbonatite breccia. Drilling and trenching at Grønnedal identified this material within part of a widespread dolerite dyke system intruding the carbonatite. Analysis of historical geological and geophysical work has indicated that the dolerite dykes are laterally extensive and deep-seated.

Further to recent trenching results, the drill sample results are confirmation of a higher proportion of commercially more valuable magnetic REE, such as Neodymium (Nd) within the total basket of REE. Whereas sample R27766 in drill hole L5-10 over 1.5 metres returned Nd in a ratio of 46% with and Nd + Pr oxide value of 50% in TREO, sample IDR27829, in drill hole L1-4 returned a value of 16,585ppm TREO from 0.5m-2m with Nd ratio of 27% and 407ppm gadolinium oxide (Gd_2O_3) with 6.42% heavy rare earth (HREE). The laboratory assay results from Grønnedal recorded low uranium values which are well below the Greenland Government's recently legislated maximum of 100ppm.

All drill holes ended in mineralisation, indicating greater depth potential below the deepest intersection of 22m.

The trends associated with the distribution of the REE are complex, indicating enrichment at depth through leaching and precipitation below the surface. The results portray the concept of weathering effects from the surface. The diagram below shows calcium carbonate ($CaCO_3$) leaching in rainwater from the surface via fault systems with $CaCO_3$ precipitating in the cold sea water as the famous Ikka Columns, located outside the tenement boundary.

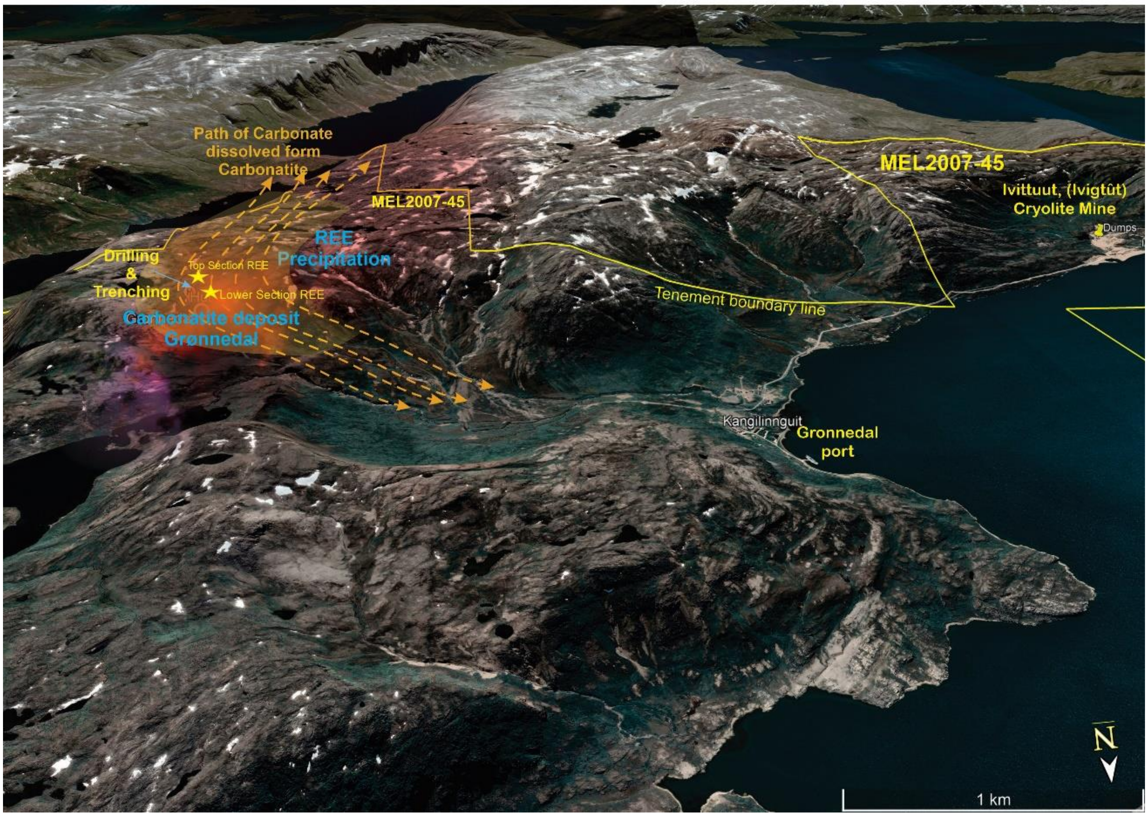

Figure 5: Grønnedal prospect exploration area and the concept of leaching carbonatite dissolved from $CaCO_3$ and the REE precipitation on top of the hill.

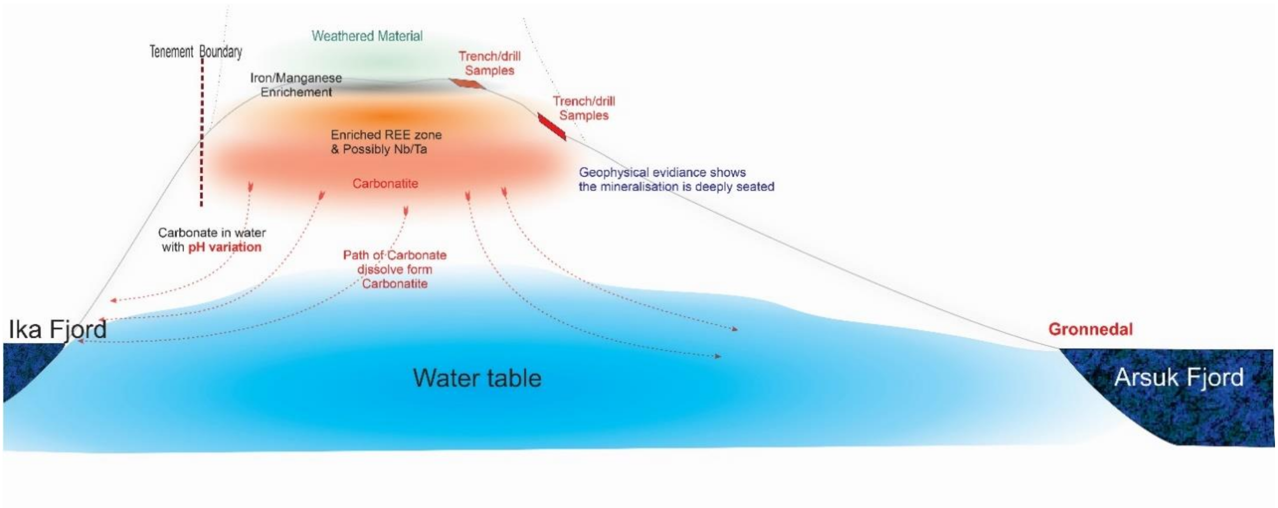

Figure 6: Conceptual illustration of the REE precipitation with carbonatite leaching $CaCO_3$ into the water table between the two fjords, concentrating remaining REE.

Discussion

Overall, analysis of the Grønnedal trench samples in the carbonate-impregnated formation demonstrated unusual patterns for Pr/La and Nd/Ce ratios compared with other REE-mineralised carbonatite complexes such as Mountain Pass (California) and Mt Weld (Western Australia).

Lower La and Ce content measured by pXRF, has been confirmed by laboratory assay results across the Grønnedal complex or a significant part thereof indicating that REE mineralisation at Grønnedal contains a higher proportion of the commercially more valuable magnetic REE, Pr and Nd. The latter are often termed the 'magnet feed' REE which are critical elements for high-performance magnets in high demand from the automotive sector and for wind turbines.

More specifically, pXRF readings and laboratory assay results recorded thus far show a relatively large proportion of Pr and Nd, comprising up to 55% of the measured 4REE. Laboratory results also show a relatively large proportion of Pr and Nd comprising up to 60% of TREO in Trench L3 – 8 and 50% in drill results L5-10 for an interval of 1.5m from 8.5m-10m depth.

Such a difference in composition for the project could have positive implications for the so-called "basket price". The basket price is described as the sum of the proportions of individual REOs in the product multiplied by the price of the individual REOs.

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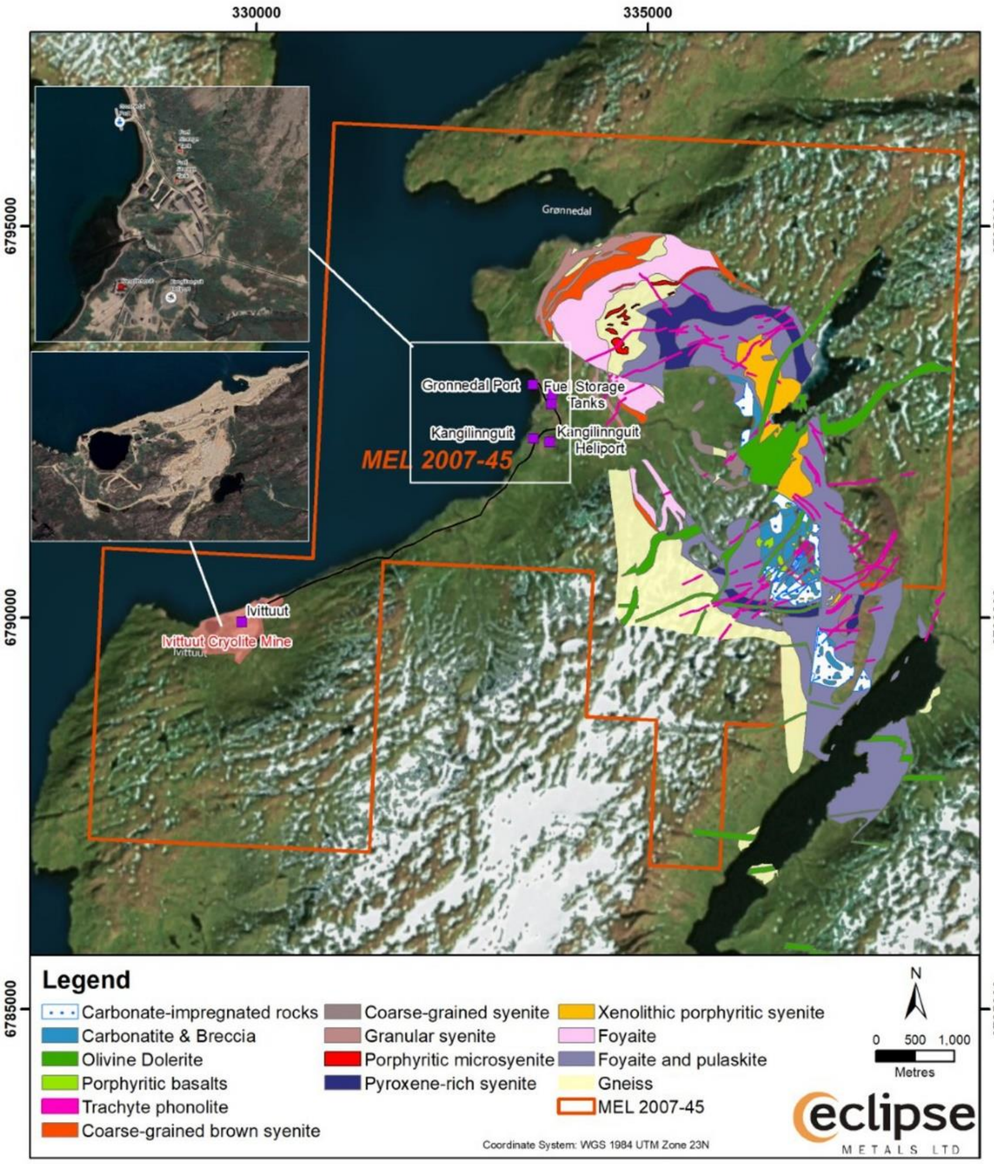

Figure 7. MEL 2007-45 Location Map, showing the geology of the Grønnedal covering nepheline syenite with a carbonatite plug.

Authorised for release by the Board of Eclipse Metals Ltd.

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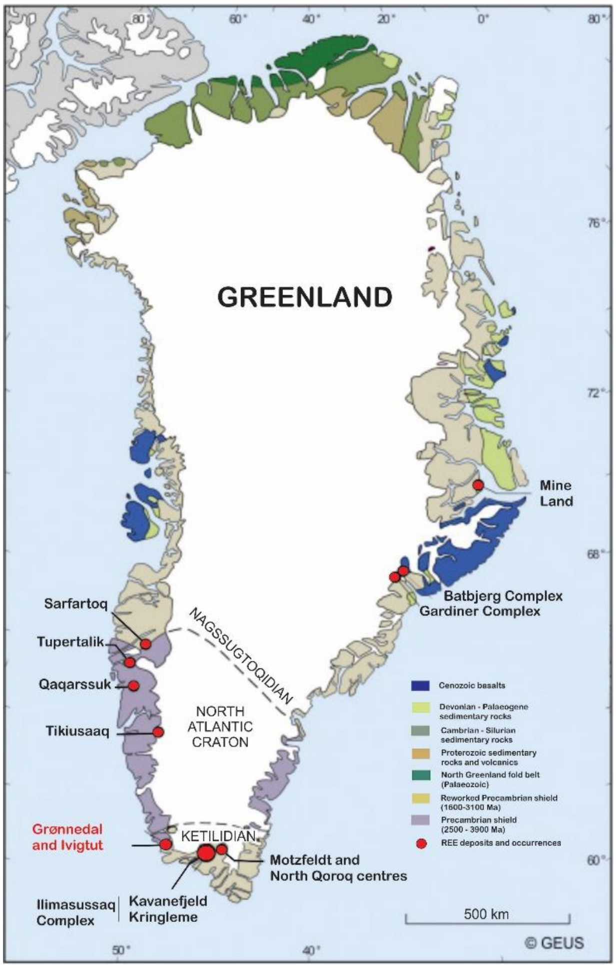

Figure 8. Greenland REE Deposits and location of Grønnedal and Ivigtût

About Eclipse Metals Ltd (ASX: EPM)

Eclipse Metals Ltd is an Australian exploration company focused on mineral exploration in South-western Greenland, Northern Territory and Queensland for multi commodity mineralisation. Eclipse Metals Ltd has an impressive portfolio of assets prospective for cryolite, fluorite, siderite, quartz, REE, gold, platinum group metals, manganese, palladium, vanadium, and uranium mineralisation. The Company's mission is to increase shareholders' wealth through capital growth and ultimately dividends. Eclipse Metals Ltd plans to achieve this goal by exploring for and developing viable mineral deposits to generate mining or joint venture incomes.

Competent Persons Statement

The information in this report / ASX release that relates to Exploration Results and Exploration Targets is based on information compiled and reviewed by Mr. Rodney Dale, Non-Executive Director of Eclipse Metals Ltd. Mr. Dale holds a Fellowship Diploma in Geology from RMIT, is a Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM) and has sufficient experience relevant to the styles of mineralisation under consideration and to the activity being reported to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Dale consents to the inclusion in this report / ASX release of the matters based on information in the form and context in which it appears. Additionally, Mr. Dale confirms that the entity is not aware of any new information or data that materially affects the information contained in the ASX releases referred to in this report.

Table 1: Drill Collar Table

Hole ID	EOH [m]	Easting	Northing	Elevation [m]	Azimuth [˚]	Inclination [˚]
LX	20.00	6,791,096	659,011	409	160	43
L3-1	20.00	6,791,059	658,942	402	0	90
L3-4	3.00	6,791,098	658,920	385	0	90
L3-3	3.50	6,791,090	658,928	390	140	45
L3-9	11.50	6,791,149	658,872	366	140	70
TL1-1	22.00	6,790,963	659,012	400	320	80
TL1-2	6.90	6,790,982	659,030	413	40	80
TL1-3	20.00	6,790,991	659,036	412	40	80
TL2-1	22.00	6,790,991	659,001	437	0	90
TL2-2	20.00	6,790,991	659,001	417	290	60
TL2-3	3.00	6,790,991	659,001	417	290	45
TL2-4	20.00	6,790,991	659,001	417	110	60
TL3-1	22.00	6,790,991	658,993	433	20	85
TL3-2	20.00	6,791,001	659,012	440	320	80
TLX2-1	11.50	6,790,979	659,013	454	0	90
TLX2-2	11.50	6,790,959	658,994	442	300	65
TLX2-3	11.50	6,790,959	658,994	442	0	90
TLX2-4	11.50	6,790,959	658,994	442	90	60
TLX2-5	12.50	6,790,950	659,013	419	0	90
TLX2-6	12.50	6,790,959	658,994	442	0	90
TLX2-7	12.50	6,790,955	659,012	397	140	60
TLX7-1	10.50	6,790,977	659,022	427	340	80
TLX7-2	10.50	6,790,976	659,023	421	30	80
TLX7-T	11.00	6,790,959	659,003	433	245	80
TLX7-T2	11.20	6,790,954	659,005	425	300	80
L1-4	2.00	6,791,131	658,963	390	0	90
L1-10	6.50	6,791,196	658,904	364	0	90
L1-12	12.50	6,791,216	658,883	354	0	90
L2-9	8.00	6,791,166	658,891	372	140	60
L5-10	10.00	6,791,149	658,843	354	0	90
L5-4	8.00	6,791,079	658,965	384	100	60
L5-8	5.50	6,791,129	658,863	360	130	60
L5-9	14.50	6,791,136	658,851	357	120	60

EOH = end-of-hole (total downhole length) from collar
Coordinate System = WGS 1984 UTM Zone 22

Table 3. Gronnedal Top Section Assay Results

Hole ID	Start(m)	End(m)	Section	Y2O3 ppm	La2O3 ppm	CeO2 ppm	Pr6O11 ppm	Nd2O3 ppm	Sm2O3 ppm	Eu2O3 ppm	Gd2O3 ppm	Tb2O3 ppm	Dy2O3 ppm	Ho2O3 ppm	Er2O3 ppm	Tm2O3 ppm	Yb2O3 ppm	Lu2O3 ppm	TREO ppm
TL1-1 (80)	0	2	2	52.07	187.65	524.53	74.41	296.27	45.69	14.01	30.2	3.14	15.09	2.1	4.87	0.5	2.72	0.39	1,253.63
TL1-1 (80)	2	4	2	24.57	23.46	56.63	7.14	28.93	5.77	2.11	5.87	0.81	5.16	0.93	2.87	0.35	2.27	0.34	167.2
TL1-1 (80)	4	6	2	25.65	20	47.91	6.2	25.43	5.46	1.96	5.39	0.76	4.97	0.96	2.55	0.36	2.44	0.34	150.37
TL1-1 (80)	6	8	2	26.92	27.44	61.79	7.63	30.56	6.2	2.16	6.04	0.81	5.08	0.97	2.52	0.36	2.43	0.34	181.25
TL1-1 (80)	8	10	2	26.67	20.93	47.54	6.37	25.78	5.57	1.95	5.6	0.77	4.95	0.95	2.45	0.36	2.32	0.34	152.53
TL1-1 (80)	10	12	2	27.56	20.7	46.07	6.04	25.08	5.35	1.96	5.49	0.78	5.15	0.95	2.54	0.38	2.43	0.33	150.78
TL1-1 (80)	12	14	2	28.32	21.17	48.03	6.2	26.01	5.72	1.99	5.76	0.82	5.36	1	2.64	0.39	2.58	0.34	156.34
TL1-1 (80)	14	16	2	27.81	18.47	43.24	5.79	24.38	5.5	1.93	5.68	0.81	5.18	1.03	2.66	0.39	2.64	0.36	145.87
TL1-1 (80)	16	18	2	33.14	25.8	57.73	7.55	30.56	6.7	2.23	6.55	0.94	6.04	1.17	3.11	0.44	2.94	0.4	185.31
TL1-1 (80)	18	20	2	31.49	22.69	51.35	6.75	27.99	6.38	2.08	6.4	0.91	5.9	1.11	3	0.44	2.93	0.4	169.81
TL1-1 (80)	20	22	2	30.35	22.81	50.12	6.68	26.94	5.9	2.11	6.12	0.88	5.58	1.09	2.82	0.42	2.73	0.39	164.95
TL1-2 (80)	0	2	2	30.35	21.46	47.91	6.34	26.01	5.62	2.07	6.13	0.87	5.62	1.09	2.8	0.42	2.77	0.4	159.87
TL1-2 (80)	2	4	2	29.59	19.18	44.1	5.91	24.61	5.77	1.96	5.77	0.86	5.67	1.06	2.85	0.42	2.79	0.42	150.94
TL1-2 (80)	4	6	2	34.29	25.1	57.24	7.49	30.79	6.82	2.25	7.17	1.01	6.51	1.26	3.22	0.48	3.18	0.44	187.25
TL1-2 (80)	6	6.9	0.9	30.86	22.93	51.35	6.73	27.53	6.2	2.14	6.29	0.88	5.81	1.1	2.85	0.42	2.88	0.39	168.35
TL1-3 (80)	0	2	2	23.24	17.42	39.19	5.23	21.46	4.7	1.74	4.97	0.7	4.41	0.84	2.24	0.32	2.13	0.3	128.87
TL1-3 (80)	2	4	2	21.4	13.31	30.71	4.12	17.44	3.93	1.45	4.21	0.62	4.13	0.8	2.06	0.32	2.07	0.28	106.85
TL1-3 (80)	4	6	2	23.24	18.82	41.77	5.61	22.69	4.87	1.83	5.09	0.72	4.51	0.9	2.28	0.34	2.16	0.31	135.13
TL1-3 (80)	6	8	2	24.13	17.59	39.06	5.21	21.7	4.78	1.7	5.07	0.72	4.63	0.89	2.42	0.33	2.28	0.31	130.81
TL1-3 (80)	8	10	2	26.29	17.53	39.55	5.3	21.75	5.04	1.75	5.23	0.76	4.94	0.95	2.49	0.37	2.52	0.36	134.85
TL1-3 (80)	10	12	2	24.76	17.36	38.69	5.09	21.52	4.85	1.71	5.09	0.73	4.69	0.93	2.44	0.35	2.35	0.33	130.89
TL1-3 (80)	12	14	2	30.73	28.85	64.25	8.02	32.08	6.75	2.36	6.66	0.94	5.76	1.12	2.85	0.41	2.7	0.41	193.88
TL1-3 (80)	14	16	2	28.95	21.05	46.43	6.22	25.43	5.73	1.99	5.91	0.86	5.46	1.06	2.76	0.4	2.69	0.36	155.31
TL1-3 (80)	16	18	2	31.37	23.05	51.35	6.75	27.99	6.18	2.14	6.44	0.93	5.89	1.14	2.96	0.43	2.92	0.39	169.94
TL1-3 (80)	18	20	2	31.49	23.57	52.33	6.8	27.76	6.18	2.34	6.3	0.91	5.81	1.13	2.98	0.44	2.9	0.4	171.35
TL2-1 (90)	0	2	2	265.41	1172.8	2825.32	340.66	1341.36	195.39	61.95	132.55	14.21	72.08	10.73	21.15	2.31	10.72	1.02	6,467.66
TL2-1 (90)	2	4	2	273.03	1278.35	3046.43	373.27	1399.68	213.95	69.24	145.8	15.31	75.75	11	21.61	2.3	11.18	1.04	6,937.95
TL2-1 (90)	4	6	2	336.52	1407.36	3672.92	465.08	1796.26	278.3	86.96	191.33	20.14	98.7	14.2	26.87	2.75	12.81	1.18	8,411.39
TL2-1 (90)	6	8	2	241.92	1032.06	2542.79	321.33	1294.7	194.23	60.44	133.13	14.39	70.81	10.05	19.27	1.99	9.21	0.87	5,947.18
TL2-1 (90)	8	10	2	265.41	914.78	2493.65	332.2	1411.34	221.48	63.11	154.45	16.34	80.34	11.68	22.07	2.3	10.59	1.06	6,000.80
TL2-1 (90)	10	12	2	271.76	445.66	1240.68	168.52	684.68	128.72	40.64	101.31	12.72	70.58	11.39	24.7	2.91	15.2	1.58	3,221.05
TL2-1 (90)	12	14	2	299.7	598.13	2033	291.13	1265.54	227.86	68.55	165.97	17.84	88.49	12.77	24.93	2.7	12.87	1.32	5,110.79
TL2-1 (90)	14	16	2	239.38	668.5	1805.75	234.35	972.78	175.1	51.18	126.79	13.81	70.01	9.99	20.53	2.12	10	1	4,401.27
TL2-1 (90)	16	18	2	124.58	351.84	872.16	115.61	479.39	84.3	24.55	63.05	7.12	36.5	5.22	10.74	1.12	5.29	0.54	2,182.02
TL2-1 (90)	18	20	2	87.37	204.07	508.56	68.86	286.93	51.14	15.17	37	4.29	22.72	3.4	7.59	0.85	4.59	0.55	1,303.10
TL2-1 (90)	20	22	2	111.75	281.47	772.66	103.28	442.07	81.64	24.55	60.17	6.42	32.02	4.6	9.54	0.98	4.91	0.52	1,936.58
TL2-2 (60)	0	2	2	328.9	1243.17	3414.95	424.01	1662.12	284.1	82.56	198.25	20.66	103.18	14.26	28.59	2.82	12.3	1.13	7,821.00
TL2-2 (60)	2	4	2	273.03	973.42	2751.62	357.57	1539.65	242.36	68.66	165.4	17.55	87	12.09	23.56	2.31	9.98	0.9	6,525.07
TL2-2 (60)	4	6	2	191.12	785.78	2002.29	247.64	983.28	163.5	51.29	112.95	11.91	58.53	8.22	16.52	1.6	7.05	0.65	4,642.35
TL2-2 (60)	6	8	2	285.73	1090.7	2960.44	364.82	1510.49	259.75	82.33	182.69	18.7	92.39	12.43	24.24	2.32	9.83	0.92	6,897.77

Hole ID	Start(m)	End(m)	Section	Y2O3	La2O3	CeO2	Pr6O11	Nd2O3	Sm2O3	Eu2O3	Gd2O3	Tb2O3	Dy2O3	Ho2O3	Er2O3	Tm2O3	Yb2O3	Lu2O3	TREO
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
TL2-2 (60)	8	10	2	349.22	1336.99	3930.88	507.36	2169.5	380.35	110.35	244.35	25.55	121.66	16.21	31.1	3.02	13.44	1.25	9,241.23
TL2-2 (60)	10	12	2	300.97	1102.43	2985.01	379.31	1592.14	269.03	80.13	184.99	18.93	92.96	12.72	24.59	2.39	10.37	0.95	7,056.91
TL2-2 (60)	12	14	2	351.76	1290.08	3709.77	477.16	2000.38	361.8	104.56	231.67	23.94	117.07	15.58	29.96	2.88	12.7	1.14	8,730.43
TL2-2 (60)	14	16	2	241.28	856.14	2352.39	287.5	1283.04	198.87	61.48	147.53	14.33	69.09	9.27	19.15	1.75	7.67	0.7	5,550.21
TL2-2 (60)	16	18	2	360.65	1243.17	3722.05	478.37	1936.22	366.43	108.03	239.74	25.67	119.93	14.55	30.07	2.73	11.36	1.01	8,660.00
TL2-2 (60)	18	20	2	281.92	926.51	2641.06	327.37	1393.85	237.72	71.1	170.58	16.69	79.99	10.86	22.13	2.04	8.84	0.83	6,191.48
TL2-3 (45)	1	3	2	386.05	1102.43	3267.54	416.76	1295.87	367.59	113.47	255.88	27.16	133.13	17.47	33.28	3.1	13.1	1.14	7,433.98
TL2-4 (60)	0	2	2	349.22	1278.35	3513.22	433.67	1697.11	306.13	87.31	199.4	20.14	99.62	13.63	29.04	2.76	12.35	1.18	8,043.16
TL2-4 (60)	2	4	2	323.82	809.23	2948.16	402.26	1825.42	322.37	79.78	216.11	21.24	107.65	13.75	28.7	2.76	12.13	1.09	7,114.48
TL2-4 (60)	4	6	2	124.7	433.94	1218.57	153.42	647.35	101.23	29.41	65.01	6.86	33.28	4.62	10.25	1.05	4.95	0.48	2,835.12
TL2-4 (60)	6	8	2	106.42	269.74	814.43	109.69	486.39	83.14	24.55	58.21	6.04	29.5	4.01	8.39	0.8	3.64	0.38	2,005.33
TL2-4 (60)	8	10	2	65.91	153.05	386.95	50.74	215.78	38.15	11.5	27.2	3.04	16.01	2.36	5.59	0.62	3.36	0.4	980.65
TL2-4 (60)	10	12	2	29.08	66.97	155.39	18.06	78.38	14.03	4.38	10.35	1.22	6.53	1.02	2.58	0.31	1.69	0.2	390.19
TL2-4 (60)	12	14	2	48.38	143.08	350.09	42.04	181.96	31.77	9.22	21.55	2.37	11.99	1.72	4.05	0.44	2.25	0.24	851.16
TL2-4 (60)	16	18	2	63.24	205.83	487.67	61.25	243.78	39.43	11.87	27.66	3.1	15.9	2.33	5.47	0.56	2.93	0.31	1,171.31
TL2-4 (60)		20	20	32	37.76	90.78	10.49	45.26	8.84	2.88	7.68	1.01	6.23	1.05	3.01	0.4	2.53	0.33	250.24
TL3-1	0	3.5	3.5	28.7	64.03	138.81	18.72	67.65	12.7	3.1	9.75	1.2	6.62	1.08	3.01	0.36	2.36	0.36	358.45
TL3-1	3.5	7	3.5	408.91	1630.19	4274.83	590.71	1393.85	407.02	113.71	252.42	26.36	125.1	16.78	35.45	3.06	13.49	1.27	9,293.15
TL3-1	7	9	2	396.21	1442.54	4446.81	657.15	2437.78	483.55	140.11	292.76	30.5	135.43	17.01	34.31	2.95	12.75	1.11	10,530.97
TL3-1	9	11	2	509.23	1102.43	3758.9	583.46	2391.12	507.9	151.11	336.56	37.18	175.6	21.99	45.05	3.81	16.63	1.53	9,642.51
TL3-1	11	13	2	473.67	1571.55	4495.94	636.62	2326.97	485.87	147.63	311.2	35.22	156.66	19.93	40.71	3.54	15.6	1.39	10,722.51
TL3-1	13	15	2	300.97	1207.98	3402.67	471.12	1819.58	308.45	86.96	194.21	19.62	92.28	12.49	25.84	2.32	10.99	1.06	7,956.55
TL3-1	15	17	2	425.42	2943.73	8033.74	980.9	3499.2	560.09	162.11	322.73	32.69	151.5	18.56	37.51	3.18	14.69	1.42	17,187.43
TL3-1	17	19	2	204.45	797.5	2155.84	297.17	1076.59	192.49	56.16	125.06	12.89	61.06	8.36	17.72	1.64	7.89	0.78	5,015.61
TL3-1	19	21	2	403.83	1536.37	4495.94	625.74	2356.13	454.56	139.53	273.17	27.97	127.39	16.67	34.53	3.18	14.58	1.45	10,511.03
TL3-1	21	22	1	355.57	1407.36	3943.16	553.26	2093.69	384.99	114.17	246.66	25.09	114.08	14.95	30.3	2.72	12.47	1.19	9,299.67
TL3-2 (80)	0	2	2	32.13	45.97	112.28	12.74	54.35	10.24	3.17	8.44	1.05	6.09	1.06	2.92	0.38	2.52	0.34	293.68
TL3-2 (80)	2	4	2	115.43	351.84	1093.28	144.96	626.36	103.44	29.76	66.16	6.68	31.68	4.28	9.22	0.9	4.34	0.46	2,588.77
TL3-2 (80)	4	6	2	245.09	1243.17	3967.73	515.82	1603.8	353.68	98.31	201.13	17.44	76.32	9.53	18.52	1.68	6.93	0.68	8,359.83
TL3-2 (80)	6	8	2	66.54	480.85	1042.91	133.48	589.03	91.03	26.86	48.41	4.3	19.68	2.75	5.89	0.59	2.9	0.22	2,515.46
TL3-2 (80)	8	10	2	25.52	89.6	246.91	29.48	130.64	22.09	6.47	12.91	1.28	6.51	0.99	2.48	0.29	1.72	0.16	577.05
TL3-2 (80)	10	12	2	38.48	94.76	229.71	27.42	116.64	19.6	5.7	13.95	1.57	8.39	1.31	3.44	0.44	2.66	0.34	564.4
TL3-2 (80)	12	14	2	35.56	114.35	283.76	33.7	141.13	22.73	6.54	15.73	1.68	8.57	1.32	3.27	0.38	2.21	0.27	671.21
TL3-2 (80)	14	16	2	20.64	58.99	158.46	17.58	77.1	13.92	3.69	9.24	0.98	5	0.79	2.05	0.25	1.41	0.13	370.23
TL3-2 (80)	16	18	2	27.81	106.02	280.08	31.53	138.8	24.35	6.61	14.29	1.42	7	1.04	2.5	0.29	1.67	0.15	643.58
TL3-2 (80)	18	20	2	33.91	225.18	404.14	45.3	199.45	36.76	9.26	21.78	2.04	9.37	1.31	3.03	0.33	1.78	0.16	993.81
TLX2-1 (90)	1	2.5	1.5	173.34	715.41	1799.61	209.59	762.83	121.76	37.28	80.34	9.38	46.94	7.09	14.24	1.55	7.89	1.02	3,988.26

Hole ID	Start(m)	End(m)	Section	Y2O3	La2O3	CeO2	Pr6O11	Nd2O3	Sm2O3	Eu2O3	Gd2O3	Tb2O3	Dy2O3	Ho2O3	Er2O3	Tm2O3	Yb2O3	Lu2O3	TREO
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
TLX2-1 (90)	2.5	4	1.5	165.09	774.05	1848.74	219.25	786.15	125.82	38.67	83.1	9.54	46.83	7.22	14.41	1.55	7.7	1.08	4,129.19
TLX2-1 (90)	4	5.5	1.5	170.8	785.78	1781.18	207.17	736	115.73	35.08	78.03	8.93	45.22	7.34	14.92	1.73	9.22	1.13	3,998.28
TLX2-1 (90)	5.5	7	1.5	172.71	867.87	2112.85	244.02	896.96	140.89	43.07	92.09	10.26	50.61	7.61	14.35	1.6	7.6	0.95	4,663.43
TLX2-1 (90)	7	8.5	1.5	199.37	1114.16	2763.9	326.16	1150.07	178	54.88	109.5	12.14	59.8	8.89	16.81	1.85	8.24	0.96	6,004.73
TLX2-1 (90)	8.5	10	1.5	170.8	938.24	2383.1	271.8	970.44	153.07	46.89	96.93	10.65	51.19	7.57	14.18	1.59	6.85	0.78	5,124.09
TLX2-1 (90)	10	11.5	1.5	154.29	809.23	1799.61	219.86	807.15	124.66	40.53	93.82	9.93	48.89	7.72	15.04	1.45	6.98	0.86	4,140.01
TLX2-2	1	2.5	1.5	77.72	304.93	732.13	88.43	310.26	49.51	13.55	35.5	4.2	19.74	3	6.96	0.8	4.22	0.57	1,651.52
TLX2-2	2.5	4	1.5	45.46	130.18	300.96	34.55	125.39	23.02	4.61	17.12	2.15	10.8	1.78	4.39	0.56	3.13	0.47	704.56
TLX2-2	4	5.5	1.5	45.59	124.9	283.76	32.25	113.84	20.47	3.16	15.79	2.01	10.65	1.76	4.62	0.58	3.52	0.52	663.43
TLX2-2	5.5	7	1.5	147.31	562.94	1517.07	182.41	664.85	105.52	30.34	75.73	8.45	39.25	5.74	12.58	1.31	6.73	0.87	3,361.09
TLX2-2	7	8.5	1.5	147.31	586.4	1553.93	187.24	671.85	106.68	31.26	73.19	8.1	37.99	5.52	12.24	1.3	6.65	0.87	3,430.53
TLX2-2	8.5	10	1.5	114.67	433.94	1065.02	124.42	450.23	69.11	20.73	49.68	5.71	27.66	4.3	10.2	1.11	6.06	0.8	2,383.63
TLX2-2	10	11.5	1.5	74.04	202.89	460.65	53.51	172.04	30.27	9.05	23.28	2.89	15.09	2.58	6.55	0.82	4.99	0.71	1,059.37
TLX2-3	1	2.5	1.5	53.08	164.19	382.03	47.35	158.05	27.95	6.01	20.86	2.57	13.03	2.08	5.13	0.66	3.6	0.52	887.11
TLX2-3	2.5	4	1.5	43.81	123.73	278.85	31.29	112.79	20.35	3.69	15.21	1.97	10.18	1.66	4.27	0.54	3.2	0.45	651.99
TLX2-3	4	5.5	1.5	42.29	121.97	275.16	31.17	111.16	20.35	3.9	15.27	1.92	9.85	1.62	4.11	0.53	2.96	0.43	642.67
TLX2-3	5.5	7	1.5	44.83	126.08	276.39	31.77	111.86	20	3.79	15.1	1.95	9.97	1.66	4.21	0.53	3.07	0.46	651.67
TLX2-3	7	8.5	1.5	43.18	119.04	260.42	30.08	105.56	19.08	3.67	14.64	1.86	9.54	1.65	4.12	0.5	2.97	0.42	616.72
TLX2-3	8.5	10	1.5	44.7	105.9	245.68	28.27	101.94	18.79	3.68	14.98	1.97	10.38	1.7	4.35	0.54	3.03	0.42	586.32
TLX2-3	10	11.5	1.5	42.92	98.63	230.94	26.46	95.76	17.92	3.55	14.18	1.87	9.84	1.67	4.28	0.52	3.04	0.41	551.98
TLX2-4	1	2.5	1.5	50.67	121.38	275.16	32.86	125.39	21.86	4.15	15.04	2	10.86	1.79	4.48	0.56	3.3	0.46	669.96
TLX2-4	2.5	4	1.5	49.15	112.35	253.05	28.27	116.64	20.29	3.9	14.35	1.86	10.41	1.75	4.49	0.55	3.2	0.46	620.73
TLX2-4	4	5.5	1.5	58.29	125.49	298.5	33.58	137.64	24.35	4.57	17.52	2.27	12.62	2.09	5.45	0.66	3.75	0.55	727.33
TLX2-4	5.5	7	1.5	54.1	134.87	312.01	37.57	141.13	24.82	4.39	17.52	2.31	12.51	2.04	5.09	0.61	3.5	0.49	752.95
TLX2-4	7	8.5	1.5	170.8	656.77	1596.92	187.84	777.99	114.68	30.8	71.35	8.3	41.78	6.15	13.44	1.38	6.9	0.87	3,685.96
TLX2-4	8.5	10	1.5	169.53	668.5	1609.2	190.86	804.82	118.28	32.42	73.07	8.47	41.32	6.13	13.21	1.32	6.8	0.89	3,744.82
TLX2-4	10	11.5	1.5	179.69	691.95	1664.48	197.51	800.15	121.18	33.35	76.53	8.97	43.96	6.53	14.18	1.47	7.7	1.03	3,848.67
TLX2-5	2	3.5	1.5	173.34	738.86	1762.75	212.61	776.82	127.56	37.63	80.11	9.82	46.71	7	15.04	1.56	7.46	0.9	3,998.16
TLX2-5	3.5	5	1.5	171.44	703.68	1775.04	222.27	821.15	137.99	40.64	86.91	10.43	49.01	7.13	14.81	1.55	7.64	0.96	4,050.63
TLX2-5	5	6.5	1.5	174.61	715.41	1848.74	228.31	839.81	143.21	41.68	88.17	10.62	49.7	7.26	15.38	1.54	7.36	0.88	4,172.69
TLX2-5	6.5	8	1.5	141.59	469.12	1191.55	151	565.7	96.36	28.72	64.08	7.73	37.76	5.75	12.98	1.4	7.25	0.95	2,781.95
TLX2-5	8	9.5	1.5	66.29	132.53	292.36	37.81	139.38	25.63	7.65	18.96	2.61	14.23	2.49	6.33	0.79	4.66	0.68	752.4
TLX2-5	9.5	11	1.5	48.64	69.43	153.55	19.51	75.93	14.67	4.48	11.64	1.65	9.5	1.74	4.83	0.62	3.84	0.53	420.56
TLX2-5	11	12.5	1.5	41.91	47.62	108.59	13.59	53.65	11.13	3.39	9.15	1.34	7.83	1.45	3.99	0.52	3.27	0.49	307.92
TLX2-6 (90)	2	3.5	1.5	101.08	387.02	923.76	111.86	465.39	68.76	18.93	42.99	5.05	24.91	3.76	8.61	0.94	5.06	0.69	2,168.82

Hole ID	Start(m)	End(m)	Section	Y2O3	La2O3	CeO2	Pr6O11	Nd2O3	Sm2O3	Eu2O3	Gd2O3	Tb2O3	Dy2O3	Ho2O3	Er2O3	Tm2O3	Yb2O3	Lu2O3	TREO
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
TLX2-6 (90)	3.5	5	1.5	182.23	668.5	1750.47	213.21	912.12	139.73	37.86	84.72	9.65	46.83	6.77	14.58	1.46	7.41	0.98	4,076.52
TLX2-6 (90)	5	6.5	1.5	154.93	609.86	1529.36	177.58	758.16	114.8	30.8	70.42	8.09	38.79	5.66	12.35	1.31	6.79	0.94	3,519.83
TLX2-6 (90)	6.5	8	1.5	154.93	645.04	1553.93	179.39	753.49	114.1	30.92	71	8.13	38.79	5.82	12.86	1.38	7.55	1.05	3,578.38
TLX2-6 (90)	8	9.5	1.5	179.06	762.32	1799.61	208.38	845.64	126.98	34.74	80.34	9.24	44.42	6.55	14.58	1.53	8.24	1.07	4,122.69
TLX2-6 (90)	9.5	11	1.5	180.33	809.23	1910.16	218.04	900.46	132.77	36.71	81.49	9.21	44.53	6.53	14.29	1.44	7.4	0.91	4,353.51
TLX2-6 (90)	11	12.5	1.5	203.82	996.88	2407.66	277.84	1143.07	166.98	45.85	106.85	10.92	51.42	7.4	15.84	1.59	7.71	0.89	5,444.73
TLX2-7 (60)	2	3.5	1.5	173.98	820.96	1891.74	246.43	865.47	140.89	40.18	94.97	10.24	49.47	6.98	15.32	1.51	8.26	0.96	4,367.35
TLX2-7 (60)	3.5	5	1.5	94.73	387.02	852.51	114.76	390.74	64.24	16.33	44.26	5.11	25.71	3.84	8.9	0.94	5.47	0.69	2,015.25
TLX2-7 (60)	5	6.5	1.5	48	138.39	300.96	40.23	141.72	25.74	5.42	18.5	2.31	12.45	1.96	5.03	0.59	3.72	0.5	745.53
TLX2-7 (60)	6.5	8	1.5	44.7	116.11	245.07	32.5	114.31	20.93	4.19	15.44	1.99	10.96	1.78	4.62	0.53	3.42	0.47	617
TLX2-7 (60)	8	9.5	1.5	43.18	112.59	235.85	31.89	112.09	20.24	4.21	15.1	1.92	10.95	1.78	4.65	0.56	3.52	0.47	598.99
TLX2-7 (60)	9.5	11	1.5	41.91	106.37	230.33	30.8	108.36	20.06	3.82	14.87	1.88	10.47	1.69	4.36	0.51	3.34	0.44	579.2
TLX2-7 (60)	11	12.5	1.5	40.51	102.74	218.04	28.63	100.43	18.61	3.45	13.54	1.77	9.98	1.63	4.24	0.49	3.07	0.44	547.58
TLX7-1 (80)	0	1.5	1.5	28.32	18.76	48.4	5.74	26.24	5.72	1.77	5.29	0.79	4.8	0.94	2.69	0.37	2.38	0.36	152.56
TLX7-1 (80)	1.5	3	1.5	29.97	23.57	60.56	6.79	30.21	6.51	2.01	5.92	0.86	5.11	1	2.76	0.38	2.39	0.38	178.42
TLX7-1 (80)	3	4.5	1.5	32	23.57	60.93	7.01	31.03	6.92	2.07	6.37	0.92	5.72	1.1	3.13	0.42	2.66	0.4	184.26
TLX7-1 (80)	4.5	6	1.5	37.84	23.69	61.17	7.14	32.08	7.31	2.11	6.95	1.04	6.61	1.28	3.73	0.51	3.26	0.52	195.25
TLX7-1 (80)	6	7.5	1.5	40.26	28.97	73.46	8.26	37.44	8.29	2.41	7.64	1.12	6.97	1.36	3.89	0.53	3.37	0.53	224.49
TLX7-1 (80)	7.5	9	1.5	48.76	40.34	100.11	11.44	50.51	10.78	2.93	9.61	1.4	8.84	1.67	4.76	0.63	4.13	0.63	296.56
TLX7-1 (80)	9	10.5	1.5	46.73	35.07	89.55	10.17	45.02	9.98	2.78	9.15	1.35	8.33	1.58	4.49	0.62	3.87	0.61	269.31
TLX7-2	0	1.5	1.5	36.32	48.55	112.28	14.13	54.7	10.76	3.31	8.96	1.25	7.16	1.3	3.58	0.46	2.74	0.39	305.9
TLX7-2	1.5	3	1.5	28.19	21.29	51.1	6.34	26.13	5.64	1.93	5.31	0.82	4.91	0.97	2.79	0.37	2.26	0.34	158.39
TLX7-2	3	4.5	1.5	32.13	20.99	54.05	6.34	28.69	6.35	1.92	5.95	0.88	5.57	1.08	3.1	0.42	2.69	0.43	170.58
TLX7-2	4.5	6	1.5	40.38	26.86	69.04	8	35.69	8.28	2.27	7.55	1.13	7.07	1.35	3.9	0.53	3.37	0.53	215.94
TLX7-2	6	7.5	1.5	29.59	20.17	51.84	6.04	27.53	6.08	1.88	5.58	0.82	5.14	0.97	2.86	0.38	2.51	0.38	161.76

Hole ID	Start(m)	End(m)	Section	Y2O3	La2O3	CeO2	Pr6O11	Nd2O3	Sm2O3	Eu2O3	Gd2O3	Tb2O3	Dy2O3	Ho2O3	Er2O3	Tm2O3	Yb2O3	Lu2O3	TREO
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
TLX7-2	7.5	9	1.5	41.14	29.55	75.92	8.58	37.79	8.36	2.37	7.85	1.16	7.21	1.39	3.93	0.54	3.33	0.51	229.63
TLX7-2	9	10.5	1.5	50.67	97.34	202.69	21.86	91.1	16.47	4.69	12.79	1.7	9.88	1.75	4.72	0.61	3.7	0.56	520.53
TLX7-T	0.5	2	1.5	28.06	72.24	143.11	15.4	55.17	9.91	3.24	8.11	1.04	5.53	0.97	2.56	0.34	2.03	0.31	348.05
TLX7-T	2	3.5	1.5	17.72	11.96	28.13	3.61	14.64	3.3	1.38	3.68	0.52	3	0.6	1.9	0.24	1.54	0.25	92.47
TLX7-T	3.5	5	1.5	26.67	45.74	116.08	13.95	53.54	10.07	3.28	8.64	1.07	5.67	0.98	2.53	0.32	2.01	0.31	290.86
TLX7-T	5	6.5	1.5	25.33	23.57	61.3	7.3	28.69	6.18	2.04	5.91	0.82	4.76	0.88	2.48	0.33	2.15	0.33	172.08
TLX7-T	6.5	8	1.5	25.52	16.65	39.92	5.24	20.94	4.96	1.64	5.12	0.75	4.59	0.88	2.49	0.36	2.33	0.36	131.78
TLX7-T	8	9.5	1.5	26.29	18.41	44.35	5.44	22.04	5.15	1.75	5.33	0.78	4.71	0.89	2.57	0.37	2.4	0.37	140.85
TLX7-T	9.5	11	1.5	30.86	23.93	58.96	6.87	26.94	6.24	2.08	6.45	0.92	5.54	1.06	3.01	0.43	2.73	0.44	176.46
TLX7-T2 (80)	1	2.5	1.5	73.15	184.72	402.92	48.08	170.88	30.38	8.77	21.44	2.9	15.55	2.6	6.59	0.8	4.65	0.66	974.07
TLX7-T2 (80)	2.5	4	1.5	64.76	111.89	234.62	27.3	101.94	19.25	5.64	14.87	2.17	12.34	2.24	6.08	0.78	4.5	0.65	609.03
TLX7-T2 (80)	4	5.5	1.5	73.65	175.33	398	49.77	180.79	32.47	9.49	22.82	3.04	16.01	2.69	6.8	0.82	4.62	0.66	976.98
TLX7-T2 (80)	5.5	7	1.5	53.84	67.55	151.09	18.54	71.62	14.61	4.19	11.87	1.77	10.11	1.86	5.23	0.7	4.17	0.59	417.75
TLX7-T2 (80)	7	8.5	1.5	53.72	69.78	146.79	17.4	66.25	13.39	4.04	11.23	1.71	9.86	1.9	5.09	0.68	4.08	0.58	406.48
TLX7-T2 (80)	8.5	10	1.5	47.37	55.71	116.94	14.13	53.42	11.41	3.33	9.96	1.52	8.96	1.72	4.72	0.64	3.79	0.55	334.19
TLX7-T2 (80)	10	11.2	1.2	46.99	45.86	101.83	12.44	48.41	10.45	3.31	9.15	1.4	8.36	1.59	4.47	0.61	3.59	0.52	298.98

Table 4. Gronnedal Lower Section Assay Results

Hole ID	Start(m)	End(m)	Section	Y_2O_3	La_2O_3	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_2O_3	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	TREO
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L1-10	0.5	2	1.5	294.62	1313.5	5159.3	722.38	2881	503.27	144.74	299.68	26.59	110.98	11.97	21.78	1.9	8.65	1.02	11,501.40
L1-10	2	3.5	1.5	351.76	1090.7	4508.2	660.78	2811	514.86	152.84	323.88	31.65	127.97	14.66	28.47	2.73	14.69	1.73	10,635.98
L1-10	3.5	5	1.5	306.05	774.05	3292.1	485.62	1889.6	425.57	130.26	289.3	26.01	110.98	12.54	25.04	2.4	14.01	1.61	7,785.13
L1-10	5	6.5	1.5	133.97	480.85	1977.7	288.71	1166.4	201.77	58.82	130.82	11.91	51.07	5.57	10.23	1.01	4.18	0.47	4,523.52
L1-12	2	3.5	1.5	173.98	422.21	1203.8	157.04	692.84	112.95	30.92	74.34	8.9	43.73	6.38	12.98	1.15	4.91	0.54	2,946.68
L1-12	3.5	5	1.5	235.57	598.13	1639.9	203.55	852.64	132.77	36.13	87.83	11.13	56.47	8.36	17.55	1.63	6.91	0.78	3,889.35
L1-12	5	6.5	1.5	204.45	574.67	1781.2	224.69	977.44	156.55	42.03	107.31	11.33	53.6	7.49	14.81	1.33	5.88	0.69	4,163.45
L1-12	6.5	8	1.5	304.78	715.41	2162	277.84	1166.4	222.06	59.05	163.09	17.27	82.06	11.51	23.1	2.11	9.66	1.19	5,217.51
L1-12	8	9.5	1.5	104.77	174.75	528.21	70.55	304.43	56.94	12.27	41.38	5.4	27.89	4.44	11.03	1.34	7.96	1.13	1,352.49
L1-12	9.5	11	1.5	137.15	216.97	568.75	70.91	277.6	48.7	7.02	35.38	4.82	27.2	4.77	13.32	1.79	11.5	1.72	1,427.61
L1-12	11	12.5	1.5	90.54	176.51	399.23	50.13	159.8	29.22	3.03	22.25	3.03	17.96	3.15	9.37	1.28	9.06	1.25	975.81
L1-4	0.5	2	1.5	398.75	1700.6	7481	1026.8	4420.7	700.4	196.26	406.87	39.02	144.61	16.55	32.02	3.2	16.8	2.27	16,585.71
L2-9	6.5	8	1.5	169.53	809.23	3021.9	415.55	2070.4	322.37	86.15	190.76	16.75	66.45	8.29	12.98	0.98	3.58	0.4	7,195.23
L2-9 (60)	0.5	2	1.5	288.27	1067.3	4262.6	670.44	2706.1	518.34	144.16	301.98	30.5	122.8	13.69	22.64	1.6	6.29	0.63	10,157.18
L2-9 (60)	2	3.5	1.5	208.9	1149.3	4139.7	635.41	2496.1	420.93	109.65	232.83	20.78	83.67	9.81	16.47	1.22	4.58	0.5	9,529.88
L2-9 (60)	3.5	5	1.5	245.73	797.5	3230.7	515.82	2117	415.14	121.58	255.88	23.6	97.9	11.51	19.33	1.42	5.88	0.62	7,859.59
L2-9 (60)	5	6.5	1.5	287	867.87	3746.6	600.38	2659.4	490.51	136.63	276.62	26.93	109.72	13.12	22.87	1.71	7.07	0.74	9,247.18
L3-1	0	2	2	26.03	41.4	94.34	11.13	46.77	9.49	2.83	7.53	0.95	5.24	0.96	2.38	0.29	1.84	0.29	251.47
L3-1	2	4	2	24.57	36.24	84.39	9.99	42.81	8.64	2.54	7	0.88	4.82	0.89	2.22	0.28	1.78	0.26	227.29
L3-1	4	6	2	23.24	34.95	82.67	11.62	42.11	8.62	2.8	6.98	0.94	5.36	0.88	2.37	0.29	1.83	0.24	224.9
L3-1	6	8	2	24	34.13	82.3	11.58	42.22	8.94	2.89	7.61	1	5.66	0.93	2.54	0.29	1.83	0.25	226.18
L3-1	8	10	2	20.95	28.97	68.3	9.72	35.34	7.57	2.39	6.51	0.86	4.73	0.8	2.15	0.28	1.68	0.24	190.48
L3-1	10	12	2	24.51	35.18	83.9	11.77	43.16	9.02	2.85	7.72	1	5.85	0.93	2.58	0.32	1.92	0.26	230.98
L3-1	12	14	2	25.65	38.82	92.13	12.99	47.12	9.53	3.02	8.17	1.06	5.96	1.01	2.7	0.33	2.06	0.28	250.82
L3-1	14	16	2	26.41	41.17	95.57	13.53	48.87	9.98	3.14	8.28	1.1	5.93	1.03	2.77	0.33	2.08	0.28	260.48
L3-1	16	18	2	26.41	41.4	99.01	13.59	49.34	9.85	3.07	8.09	1.06	6.01	1.01	2.71	0.32	2.17	0.29	264.33
L3-1	18	20	2	27.56	43.86	103.55	14.38	52.37	10.53	3.46	9.05	1.21	6.46	1.07	2.8	0.33	2.14	0.29	279.06
L3-3 (45)	0	2	2	226.68	1829.6	5515.5	713.93	2764.4	407.02	113.13	236.28	19.8	82.75	9.03	16.87	1.4	5.22	0.51	11,942.06
L3-3 (60)	0	2	2	178.42	1348.7	4053.7	525.48	2187	311.93	81.98	177.5	15.42	65.07	7.34	13.89	1.14	4.44	0.44	8,972.50
L3-3 (60)	0	2	2	212.07	820.96	2739.3	433.67	1749.6	323.53	92.98	214.38	20.26	83.09	9.51	16.64	1.33	5.7	0.57	6,723.63
L3-3 (90)	0	2	2	170.8	1008.6	3316.7	446.96	1708.8	264.39	75.26	171.16	14.45	59.45	6.38	12.75	1.11	5.36	0.58	7,262.72
L3-4 (90)	1	3	2	276.84	1700.6	6092.9	792.45	3044.3	510.22	144.74	297.37	25.55	104.67	11.31	20.98	1.67	6.68	0.65	13,030.87
L3-9	1	2.5	1.5	129.53	727.14	2567.4	390.18	1440.5	245.84	62.18	130.82	11.91	48.55	5.85	10.47	0.9	4.5	0.54	5,776.28

Hole ID	Start(m)	End(m)	Section	Y2O3	La2O3	CeO2	Pr6O11	Nd2O3	Sm2O3	Eu2O3	Gd2O3	Tb2O3	Dy2O3	Ho2O3	Er2O3	Tm2O3	Yb2O3	Lu2O3	TREO
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L3-9	2.5	4	1.5	47.49	504.3	1664.5	266.97	976.28	150.17	38.44	81.14	6.87	25.94	2.97	4.99	0.37	1.54	0.16	3,772.11
L3-9	4	5.5	1.5	66.03	562.94	1897.9	285.09	1039.3	157.13	39.37	80.68	6.84	26.51	3.08	5.43	0.47	2	0.21	4,172.93
L3-9	5.5	7	1.5	118.23	738.86	2690.2	416.76	1603.8	229.6	56.27	118.72	9.65	38.56	4.73	9.5	0.95	5.57	0.72	6,042.12
L3-9	7	8.5	1.5	60.83	527.76	1805.8	277.84	997.27	146.11	35.66	72.84	6.08	23.18	2.71	5.04	0.44	2.19	0.28	3,963.99
L3-9	8.5	10	1.5	64.26	539.49	1904	282.67	1018.3	154.23	37.75	76.07	6.4	24.56	2.84	5.18	0.42	2.12	0.25	4,118.53
L3-9	10	11.5	1.5	57.15	516.03	1738.2	263.34	934.29	136.83	33.81	68.58	5.9	22.32	2.65	4.72	0.37	1.89	0.22	3,786.30
L5-10	1	2.5	1.5	95.24	480.85	1830.3	262.14	1166.4	202.35	55.12	115.84	10.61	44.3	4.46	6.28	0.46	1.9	0.19	4,276.45
L5-10	2.5	4	1.5	165.72	926.51	3672.9	538.77	2577.7	418.62	112.9	238.59	20.49	80.45	8.67	12.64	0.96	3.78	0.37	8,779.12
L5-10	4	5.5	1.5	90.92	562.94	2100.6	317.7	2332.8	248.15	70.86	163.67	14.39	58.99	6.63	10.35	0.79	2.94	0.31	5,982.02
L5-10	5.5	7	1.5	77.97	504.3	1762.8	275.42	2437.8	226.7	64.84	155.6	13.58	55.89	6.38	9.77	0.74	2.76	0.26	5,594.75
L5-10	7	8.5	1.5	59.3	422.21	1553.9	245.22	1145.4	208.15	59.4	141.19	12.43	50.5	5.58	8.12	0.64	2.09	0.2	3,914.37
L5-10	8.5	10	1.5	67.94	457.39	1615.4	254.89	2426.1	216.85	62.3	144.08	12.72	51.65	5.81	8.35	0.6	2.16	0.21	5,326.38
L5-4	0.5	2	1.5	33.14	232.8	640	119.35	615.86	117.7	36.71	94.4	9.52	44.19	5.52	8.87	0.67	2.39	0.22	1,961.34
L5-4	2	3.5	1.5	140.32	504.3	1584.6	273.01	2251.2	244.68	75.96	194.79	19.51	89.86	11.31	18.98	1.52	5.96	0.53	5,416.51
L5-4	3.5	5	1.5	12.15	155.98	313.24	63.54	299.76	51.83	15.63	41.84	4.19	19.17	2.41	3.84	0.28	0.89	0.08	984.84
L5-4	5	6.5	1.5	39.87	375.3	1013.4	167.31	794.32	137.41	41.11	101.08	9.82	42.92	4.93	7.54	0.55	1.73	0.17	2,737.48
L5-4	6.5	8	1.5	32.64	256.84	735.81	115.36	563.37	105.76	33.23	83.68	8.39	36.5	4.26	6.33	0.47	1.54	0.14	1,984.32
L5-8	1	2.5	1.5	12.45	161.26	420.11	65.35	323.09	58.33	17.72	45.76	4.44	19.74	2.43	3.65	0.26	0.85	0.09	1,135.53
L5-8	2.5	4	1.5	480.02	1020.3	4262.6	643.86	2997.7	709.68	215.95	466.8	48.69	202	23.71	41.17	3.78	16.63	1.54	11,134.35
L5-8	4	5.5	1.5	261.6	1090.7	3869.5	527.9	2426.1	448.77	130.26	289.3	26.93	113.39	13.06	21.61	1.91	8.04	0.77	9,229.82
L5-9	1	2.5	1.5	55.24	516.03	1492.5	253.68	1137.2	191.91	55.12	125.63	10.62	43.5	5.14	8.27	0.66	2.7	0.29	3,898.54
L5-9	2.5	4	1.5	139.05	785.78	2825.3	411.93	2047	293.38	76.88	166.55	13.7	56.01	6.59	11.23	1.01	4.51	0.5	6,839.46
L5-9	4	5.5	1.5	219.06	856.14	3329	484.41	2210.3	368.75	95.99	195.94	16.69	70.35	8.59	16.29	1.78	10.15	1.26	7,884.70
L5-9	5.5	7	1.5	100.2	609.86	2297.1	330.99	1802.1	225.54	59.4	121.02	10.04	39.6	4.58	7.88	0.78	3.94	0.46	5,613.47
L5-9	7	8.5	1.5	179.06	727.14	2886.7	405.89	1912.9	309.61	84.3	177.5	15.48	63.93	7.62	13.04	1.21	5.86	0.63	6,790.89
L5-9	8.5	10	1.5	215.25	820.96	3181.6	453	2111.2	358.32	98.65	215.54	19.11	82.52	9.91	16.64	1.45	6.27	0.62	7,590.97
L5-9	10	11.5	1.5	240.65	949.97	3734.3	535.14	2554.4	405.86	111.51	232.83	20.89	91.47	11.31	19.5	1.63	6	0.51	8,916.00
L5-9	11.5	13	1.5	238.74	703.68	2739.3	405.89	1720.4	353.68	99.93	224.76	21.24	94	11.31	18.7	1.56	6	0.59	6,639.83
L5-9	13	14.5	1.5	137.15	410.48	1572.4	230.73	1024.1	201.77	59.4	133.7	12.49	53.6	6.19	10.27	0.84	3.35	0.3	3,856.71
LX	0	2	2	175.25	387.02	1031.9	153.42	548.21	92.54	28.83	67.31	8.77	47.97	7.27	16.87	1.7	8.92	1.03	2,576.96
LX	2	4	2	101.97	247.46	626.48	93.38	319.59	54.39	16.33	39.42	5.1	27.43	4.2	10.31	1.18	6.46	0.82	1,554.52
LX	4	6	2	85.59	204.07	542.95	72.48	277.6	42.79	13.2	31.12	3.66	19.63	2.9	7.55	0.88	5.09	0.63	1,310.14
LX	6	8	2	62.99	98.75	313.24	40.83	163.88	28.18	8.82	22.07	2.62	14.52	2.19	5.74	0.68	3.97	0.55	769.05
LX	8	10	2	42.67	74.94	181.19	23.68	95.06	17.63	5.56	14	1.68	9.43	1.48	3.92	0.47	2.82	0.38	474.91
LX	10	12	2	25.52	24.51	64.25	8.17	33.48	6.62	2.22	6.1	0.81	4.99	0.85	2.49	0.33	2.14	0.3	182.77
LX	12	14	2	26.54	31.78	80.46	9.93	39.54	7.49	2.56	6.47	0.86	5.22	0.86	2.5	0.33	2.1	0.31	216.96
LX	14	16	2	35.56	92.53	179.96	20.29	74.18	12.76	4.03	10.21	1.28	7.43	1.19	3.36	0.44	2.76	0.37	446.34
LX	16	18	2	33.65	41.99	102.45	12.38	48.99	9.16	3.02	7.91	1.01	6.42	1.1	3.27	0.45	2.84	0.4	275.03
LX	18	20	2	36.45	60.28	146.18	18.72	73.6	13.34	4.12	10.47	1.26	7.43	1.21	3.54	0.47	3.04	0.44	380.54

JORC Code, 2012 Edition – Table 1

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	• *Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.* • *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* • *Aspects of the determination of mineralisation that are Material to the Public Report.* • *In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.*	• Grønnedal carbonatite samples are from trenches and drill-holes.. • Initial field tests by hand-held XRF assumed to be indicative only. Instrument not calibrated. • Chemical analyses to assess levels of elements contained, not for ore-grade estimates.
Drilling techniques	• *Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).*	• Open-hole rotary air-blast drilling.
Drill sample recovery	• *Method of recording and assessing core and chip sample recoveries and results assessed.* • *Measures taken to maximise sample recovery and ensure representative nature of the samples.* • *Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse*	• Drill samples collected by vaccum system and bagged on-site. • Continual monitoring of sample recovery system. • Samples logged on-site, mixed and combined, riffle-split and bagged with duplicates retained in off-site storage facility.

Criteria	JORC Code explanation	Commentary
	material.	
Logging	• *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.* • *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* • *The total length and percentage of the relevant intersections logged.*	• Samples geologically logged before submission for analysis for identification only. Not quantitative.
Sub-sampling techniques and sample preparation	• *If core, whether cut or sawn and whether quarter, half or all core taken.* • *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* • *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* • *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* • *Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.* • *Whether sample sizes are appropriate to the grain size of the material being sampled.*	• Samples for geological determination and identification only. Not quantitative. • Bulked samples riffle split in secure storage facility. • Duplicates collected for back-up.
Quality of assay data and laboratory tests	• *The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.* • *For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.* • *Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.*	• Standard laboratory procedures for sample preparation, elemental determination, QA / QC. • Standard laboratory procedures with blanks and duplicates. No external laboratory checks warranted at this stage.
Verification of sampling and assaying	• *The verification of significant intersections by either independent or alternative company personnel.* • *The use of twinned holes.* • *Documentation of primary data, data*	• Non-resource drilling only for geological and chemical determinations.

Criteria	JORC Code explanation	Commentary
	entry procedures, data verification, data storage (physical and electronic) protocols. • *Discuss any adjustment to assay data.*	
Location of data points	• *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.* • *Specification of the grid system used.* • *Quality and adequacy of topographic control.*	• Handheld GPS locations: - Grønnedal – within 600m of 658880mE: 6791300mN. No grid. Handheld GPS only and correlation with hard-copy maps. • UTM
Data spacing and distribution	• *Data spacing for reporting of Exploration Results.* • *Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.* • *Whether sample compositing has been applied.*	• Each location recorded by hand-held GPS. • No assumption of continuity or resource estimation. • Samples Crushed, riffle- split and bagged with duplicates retained in storage in Greenland.
Orientation of data in relation to geological structure	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* • *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.*	• Shallow exploration trenches not oriented. • Drill hole azimuth measured and recorded in attached tables.
Sample security	• *The measures taken to ensure sample security.*	• Samples secured on-site, transported to private, lock-up building, processed, bagged and transported in locked shipping container and shipped to Perth by ship Australia under normal security procedures.
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	• No audits have been completed yet.

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	• *Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental*	• MEL 2007 / 45 granted to Eclipse Metals in February 2021 for a period of 3 years with extensions subject to activities and expenditure. • Granted by Government of Greenland.

Criteria	JORC Code explanation	Commentary
	settings. • *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.*	
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	**GEUS Report File No. 20236** Planning of the Ivigtût Open Pit of Kryolitselskabet Oresund A/S - Mining of the Flouritic Orebody"; Outokompu OY Mining Consultants, 1987. This report provided 18 cross sections showing drill traces with cryolite (kry), fluorite (fs) and siderite (sid) values together with pit profiles, resource blocks and tabulated tonnage estimates on each section with an SG of 2.95. **GEUS Report File No. 20238** "The Planning of the Ivigtût Open Pit of Kryolitselskabet Oresund A/S – Report of the First Phase, Investigation of the Quantity and Quality of Extractable Ore from the Ivigtût Open Pit"; Outokompu OY Mining Consultants, 1986. This report contained 23 sections showing drillhole traces and contoured cryolite/fluorite grades with an overlay of resource blocks. These sections were used to check positions of drillholes relative to those shown in the above report (GEUS 20236). Resource tonnages are provided. **GEUS Report File No. 20335** Kryolitselskabet Oresund A/S, De Resterende Mineralreserver I Kryolitforekomsten Ved Ivigtût, Ultimo 1987" This report is the most useful of the reports. It provides: - Drillhole location plan - Complete cross section locations - Pit survey points - Plans of underground and in-pit ramp - 38 cross section showing drillhole traces, geological interpretation and ore blocks - Tabulated ore blocks with cryolite, fluorite and siderite grades and tonnages (back-calculated blanket SG of 3) **GEUS Report File No. 21549** "Ivigtût Mineopmaaling, 1962" This report is a survey record of the open pit and includes 28 sections, each of which show the pit profile together with drillhole traces and, on some sections, underground workings. **GEUS Report File No. 20241**

Criteria	JORC Code explanation	Commentary
		Kryolitselskabet Oresund A/S, Lodighedsdistribution I, Ivigtût Kryolitbrud, 31.12.1985" (Danish) 108 pages of drillhole analytical data in %: hole ID, from to, cryolite, fluorspar, Fe, Cu, Zn, Pb, S
Geology	• *Deposit type, geological setting and style of mineralisation.*	• Late stage granitic / syenitic / carbonatite intrusions into crystalline basement.
Drill hole Information	• *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:* ○ *easting and northing of the drill hole collar* ○ *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar* ○ *dip and azimuth of the hole* ○ *down hole length and interception depth* ○ *hole length.* • *If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.*	• • Drill location and azimuth information measured and recorded in tables included with this report.
Data aggregation methods	• *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.* • *Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low-grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* • *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	• Not applicable..
Relationship between mineralisation widths and intercept lengths	• *These relationships are particularly important in the reporting of Exploration Results.* • *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.* • *If it is not known and only the down*	• • Relationship of mineralisation and hole depth recorded and described in body of report.

Criteria	JORC Code explanation	Commentary
	hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').	
Diagrams	• *Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.*	• Appropriate coordinated maps are provided in the body of the text.
Balanced reporting	• *Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.*	• Fully coordinated analytical results included with this report.
Other substantive exploration data	• *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.*	• Exploration by Eclipse Metals of the Ivigtût and Grønnedal prospects is at an early stage with field work to date consisting of reconnaissance sampling, trenching and a maiden drilling program. The Company expects to be able to report substantive exploration data once it has completed it's 2023 field season at the prospects.
Further work	• *The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).* • *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	• Geological mapping; remote sensing; trenching and drilling. • Detailed geological assessments planned for 2023 field season. • Diamond drilling.