



LEADING EDGE MATERIALS CORP.

CONDENSED CONSOLIDATED INTERIM FINANCIAL STATEMENTS
FOR THE SIX MONTHS ENDED
APRIL 30, 2022

(Unaudited - Expressed in Canadian Dollars)

**NOTICE OF NO AUDITOR REVIEW OF
CONDENSED CONSOLIDATED INTERIM FINANCIAL STATEMENTS**

In accordance with National Instrument 51-102 Part 4, subsection 4.3(3)(a), if an auditor has not performed a review of these condensed consolidated interim financial statements, they must be accompanied by a notice indicating that the condensed consolidated interim financial statements have not been reviewed by an auditor.

The accompanying unaudited condensed interim financial statements of the Company have been prepared by and are the responsibility of the Company's management.

The Company's auditors have not performed a review of these condensed consolidated interim financial statements in accordance with the standards established by the Chartered Professional Accountants of Canada for a review of interim financial statements by an entity's auditor.

LEADING EDGE MATERIALS CORP.
CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

(Unaudited - Expressed in Canadian Dollars)

	Note	April 30, 2022 \$	October 31, 2021 \$
ASSETS			
Current assets			
Cash		1,912,655	1,316,797
GST/VAT receivables		20,603	19,729
Prepaid expenses		43,052	61,553
Investments	3	404,725	981,732
Inventory		81,010	84,060
Plant stores and supplies		82,384	91,545
Total current assets		<u>2,544,429</u>	<u>2,555,416</u>
Non-current assets			
Exploration and evaluation assets	4	16,337,465	16,203,140
Property, plant and equipment	5	6,016,498	9,892,213
Reclamation deposit	6	102,455	105,637
Total non-current assets		<u>22,456,418</u>	<u>26,200,990</u>
TOTAL ASSETS		<u>25,00,847</u>	<u>28,756,406</u>
LIABILITIES			
Current liabilities			
Accounts payable and accrued liabilities		147,945	205,250
Non-current liabilities			
Provision for site restoration	6	5,524,364	9,367,086
Property acquisition obligation	4(a), 5	521,600	579,600
Total non-current liabilities		<u>6,045,964</u>	<u>9,946,686</u>
TOTAL LIABILITIES		<u>6,193,909</u>	<u>10,151,936</u>
SHAREHOLDERS' EQUITY			
Share capital	7	55,186,554	53,521,055
Share-based payments reserve	7(d)	7,609,123	6,187,686
Deficit		(43,988,739)	(41,104,271)
TOTAL SHAREHOLDERS' EQUITY		<u>18,806,938</u>	<u>18,604,470</u>
TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY		<u>25,000,847</u>	<u>28,756,406</u>

Nature of Operations and Going Concern - Note 1

Events after the Reporting Period - Note 12

These condensed consolidated interim financial statements were approved for issue by the Board of Directors on June 22, 2022 and are signed on its behalf by:

/s/ Lars-Eric Johansson
Lars-Eric Johansson
Chairman

/s/ Eric Krafft
Eric Krafft
Director

The accompanying notes are an integral part of these consolidated financial statements.

LEADING EDGE MATERIALS CORP.
CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS

(Unaudited - Expressed in Canadian Dollars)

	Notes	Three Months Ended April 30,		Six Months Ended April 30,	
		2022 \$	2021 \$	2022 \$	2021 \$
Expenses					
Accretion of provision for site restoration	6	10,201	7,891	20,402	15,782
Corporate development and IR		17,613	24,994	57,262	59,253
Depreciation		6,039	6,886	12,591	13,933
Directors and officer's compensation		98,373	106,016	198,039	215,680
Exploration and evaluation	5	25,393	37,301	53,534	247,803
Finance and audit	8(b)	45,552	40,122	73,592	143,741
General and administration		17,896	13,082	34,320	28,713
Listing and regulatory costs		59,399	61,402	116,078	104,022
Operations		144,318	163,177	284,795	289,014
Professional fees		8,439	22,624	34,799	30,181
Share based compensation		-	-	1,421,437	-
Travel		671	-	1,452	47
Loss before other items		<u>(433,894)</u>	<u>(483,495)</u>	<u>(2,308,301)</u>	<u>(1,148,169)</u>
Other items					
Foreign exchange		(4,483)	77,045	(10,637)	66,413
Gain on sale of property		-	1,472,255	-	1,472,255
Interest income		4,183	3,695	7,909	9,119
Mark to Market adjustment loss		(357,800)	-	(577,008)	-
Other Income		1,874	20,572	3,568	22,178
		<u>(356,226)</u>	<u>1,573,567</u>	<u>(576,168)</u>	<u>1,569,965</u>
Net Profit (Loss) and comprehensive loss		<u>(790,120)</u>	<u>1,090,072</u>	<u>(2,884,469)</u>	<u>421,796</u>
Profit (Loss) per share -					
Basic		(\$0.00)	\$0.01	(\$0.02)	\$0.00
Diluted		(\$0.00)	\$0.01	(\$0.02)	\$0.00
Weighted average number of common shares outstanding					
Basic		151,645,499	146,944,770	151,220,041	146,833,404
Diluted		<u>151,645,499</u>	<u>172,266,784</u>	<u>151,220,041</u>	<u>174,180,439</u>

The accompanying notes are an integral part of these consolidated financial statements.

LEADING EDGE MATERIALS CORP.
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY
(Unaudited - Expressed in Canadian Dollars)

Six Months Ended April 30, 2022

	Share Capital		Share-Based Payments Reserve	Deficit	Total Equity
	Number of Shares	Amount \$			
Balance as at October 31, 2021	147,024,071	53,521,054	6,187,686	(41,104,270)	18,604,470
Common shares issued for:					
Options exercised	200,000	45,000	-	-	45,000
Share-based compensation	-	-	1,421,437	-	1,421,437
Warrants exercised	4,421,428	1,620,500	-	-	1,620,500
Net loss for the period	-	-	-	(2,884,469)	(2,884,469)
Balance as at April 30, 2022	151,645,499	55,186,554	7,609,123	(43,988,739)	18,806,938

Six Months Ended April 30, 2021

	Share Capital		Share-Based Payments Reserve	Deficit	Total Equity
	Number of Shares	Amount \$			
Balance as at October 31, 2020	146,467,391	53,419,350	6,187,686	(39,893,552)	19,713,484
Common shares issued for:					
Options Exercised	493,109	95,348	-	-	95,348
Net profit for the period	-	-	-	421,796	421,796
Balance as at April 30, 2021	146,960,500	53,514,698	6,187,686	(39,471,756)	20,230,628

The accompanying notes are an integral part of these consolidated financial statements.

LEADING EDGE MATERIALS CORP.
CONSOLIDATED STATEMENTS OF CASH FLOWS

(Unaudited - Expressed in Canadian Dollars)

	Six Months Ended	
	April 30,	
	2022	2021
	\$	\$
Operating activities		
Net (loss) income for the period	(2,884,469)	421,796
Adjustments for:		
Accretion of provision for site restoration	20,402	15,782
Depreciation	12,591	13,933
Foreign exchange gain	(42,605)	(6,867)
Gain on disposal of property	-	(1,472,255)
Mark to market adjustment loss	577,008	-
Share-based compensation	1,421,437	-
Changes in non-cash working capital items:		
Amounts receivable	-	(4,604)
GST/VAT receivables	(874)	(2,699)
Prepaid expenses and other	18,498	(66,661)
Accounts payable and accrued liabilities	(57,305)	(168,091)
Net cash used in operating activities	<u>(935,317)</u>	<u>(1,269,666)</u>
Investing activity		
Proceeds on disposal of property	-	250,000
Expenditures on exploration and evaluation assets	(134,325)	(315,917)
Net cash used in investing activity	<u>(134,325)</u>	<u>(65,917)</u>
Financing activities		
Issuance of common shares	1,665,500	95,348
Net cash provided by financing activities	<u>1,665,500</u>	<u>95,348</u>
Net change in cash	595,858	(1,240,235)
Cash at beginning of the period	<u>1,316,797</u>	<u>3,361,424</u>
Cash at end of the period	<u>1,912,655</u>	<u>2,121,189</u>

Supplemental cash flow information – See Note 10

The accompanying notes are an integral part of these consolidated financial statements.

LEADING EDGE MATERIALS CORP.
NOTES TO THE CONDENSED CONSOLIDATED INTERIM FINANCIAL STATEMENTS
FOR THE THREE AND SIX MONTHS ENDED April 30, 2022
(Unaudited - Expressed in Canadian Dollars)

4. Nature of Operations and Going Concern

The Company is a Canadian public company primarily focused on developing a portfolio of critical raw material projects located in the European Union. The portfolio of projects includes the 100% owned Woxna Graphite mine (Sweden), Norra Karr HREE project (Sweden) and the 51% owned Bihor Sud Nickel Cobalt exploration alliance (Romania). The Company's common shares trade on the TSX Venture Exchange (the "TSXV") under the symbol "LEM", on the OTCQB under the symbol "LEMIF", on NASDAQ First North under the symbol "LEMSE" and on Frankfurt under the symbol "7FL". The Company's principal office is located at 14th Floor, 1040 West Georgia Street, Vancouver, British Columbia V6E 4H1.

During the six months ended April 30, 2022 the Company recorded a net loss of \$2,884,469 and, as at April 30, 2022, the Company had an accumulated deficit of \$43,988,739 and working capital of \$2,396,484. For the Woxna Graphite Mine the Company maintains ongoing research and development to produce higher specialty products such as high purity graphite for battery and other specialty end uses. The Company is maintaining its Woxna Graphite Mine on a "production-ready" basis to minimize costs whilst such development work is ongoing. For the Norra Karr HREE project the Company's main focus is progressing the ongoing permitting process and development work to increase resource efficiency and minimize local environmental footprint for the project. On June 21, 2022 the Company took a decision to initiate a Natura 2000 permit application process for the Norra Karr project and retract the appeal against the previous mining lease application rejection for Norra Karr. Finally, for the Bihor Sud exploration joint venture the Company is exploration work program under its exclusive exploration license. The Company anticipates that it has sufficient funding to meet anticipated levels of corporate administration and overheads for the ensuing twelve months, however, it will need additional capital to recommence operations at the Woxna Graphite Mine and/or modernize the plant to produce value added production, to fund future development of the Norra Karr Property and complete exploration activities in Romania. There is no assurance such additional capital will be available to the Company on acceptable terms or at all. In the longer term the recoverability of the carrying value of the Company's long-lived assets is dependent upon the Company's ability to preserve its interest in the underlying mineral property interests, the discovery of economically recoverable reserves, the achievement of profitable operations and the ability of the Company to obtain financing to support its ongoing exploration and development programs, and mining operations.

On March 11, 2020, the World Health Organization declared COVID-19 a pandemic. Federal, regional, and local authorities in Canada, the United States, and other nations continue to restrict the ability of people to leave their homes and carry out normal day-to-day activities. These measures will have a significant, negative effect on the economy of all nations for an uncertain period of time. The duration and impact of COVID-19 is unknown at this time and it is not possible to reliably estimate the impact that the length and severity of these developments will have on the financial results and condition of the Company in future periods.

These condensed consolidated interim financial statements are prepared in accordance with International Financial Reporting Standards ("IFRS") appropriate for a going concern. The going concern basis of accounting assumes the Company will continue to realize the value of its assets and discharge its liabilities and other obligations in the ordinary course of business. Should the Company be required to realize the value of its assets in other than the ordinary course of business, the net realizable value of its assets may be materially less than the amounts shown in the consolidated financial statements. These condensed consolidated interim financial statements do not include any adjustments to the amounts and classifications of assets and liabilities that may be necessary should the Company be unable to repay its liabilities and meet its other obligations in the ordinary course of business or continue operations.

LEADING EDGE MATERIALS CORP.
NOTES TO THE CONDENSED CONSOLIDATED INTERIM FINANCIAL STATEMENTS
FOR THE THREE AND SIX MONTHS ENDED April 30, 2022
(Unaudited - Expressed in Canadian Dollars)

2. Basis of Preparation

Statement of Compliance

These condensed consolidated interim financial statements have been prepared using accounting policies consistent with International Financial Reporting Standards ("IFRS"), and in accordance with International Accounting Standards ("IAS") 34, Interim Financial Reporting, as issued by the International Accounting Standards Board ("IASB"). These condensed consolidated interim financial statements should be read in conjunction with the audited consolidated financial statements for the year ended October 31, 2021, which have been prepared in accordance with IFRS as issued by the IASB. The accounting policies followed in these condensed consolidated interim financial statements are consistent with those applied in the Company's consolidated financial statements for the year ended October 31, 2021.

Basis of Measurement

The Company's consolidated financial statements have been prepared on the historical cost basis except for the revaluation of certain financial assets and financial liabilities to fair value. The consolidated financial statements are presented in Canadian dollars unless otherwise noted.

Details of the Group

In addition to the Company, the consolidated financial statements include all subsidiaries. Subsidiaries are all entities over which the Company is able, directly or indirectly, to control financial and operating policies, which is the authority usually connected with holding majority voting rights. Subsidiaries are fully consolidated from the date on which control is acquired by the Company. Inter-company transactions and balances are eliminated upon consolidation. They are deconsolidated from the date that control by the Company ceases.

The subsidiaries of the Company are as follows:

<u>Company</u>	<u>Location of Incorporation</u>	<u>Ownership Interest</u>
Flinders Holdings Limited ("Flinders Holdings")	British Columbia	100%
Woxna Graphite AB ("Woxna")	Sweden	100%
Tasman Metals Ltd.	British Columbia	100%
GREENNA Mineral AB (Formerly "Tasman Metals AB")	Sweden	100%
LEM Resources SRL ("LEM Romania")	Romania	51%

3. Investments

Investments held by the Company are as follows:

Particulars	April 30, 2022 \$	October 31, 2021 \$
Shares in United Lithium Corp.	299,241	722,305
Warrants in United Lithium Corp.	105,484	259,427
Total	404,725	981,732

The investment in United Lithium Corp will be revalued with level 1 input at each reporting date. The value of warrants was determined using the Black-Scholes pricing model using level 2 inputs, the value was calculated based on risk-free rate of 2.74%, expected stock volatility of 227% and forfeiture rate of 0.0%.

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NOTES TO THE CONDENSED CONSOLIDATED INTERIM FINANCIAL STATEMENTS
FOR THE THREE AND SIX MONTHS ENDED April 30, 2022
(Unaudited - Expressed in Canadian Dollars)

4. Exploration and Evaluation Assets

	As at April 30, 2022			As at October 31, 2021		
	Acquisition Costs \$	Deferred Exploration Costs \$	Total \$	Acquisition Costs \$	Deferred Exploration Costs \$	Total \$
Graphite Concessions	10,081	4,706	14,787	10,081	4,706	14,787
Norra Karr	15,402,622	872,076	16,274,698	15,402,622	785,731	16,188,353
Anode Project	-	47,980	47,980	-	-	-
	15,412,703	924,762	16,337,465	15,412,703	790,437	16,203,140

	Graphite concessions \$	Anode Project \$	Bergby \$	Norra Karr \$	Total \$
Balance at October 31, 2020	14,787		425,551	15,892,517	16,332,855
Costs					
Geological	-	-	2,786	-	2,786
Permitting	-	-	10,227	25,006	35,233
Technical studies	-	-	-	270,830	270,830
Sale of property	-	-	(438,564)	-	(438,564)
	-	-	(425,551)	295,836	(129,715)
Balance at October 31, 2021	14,787	-	-	16,188,353	16,203,140
Costs					
Geological	-	-	-	8,435	8,435
Metallurgical	-	47,980	-	-	47,980
Permitting	-	-	-	77,910	77,910
Balance at April 30, 2022	14,787	47,980	-	16,274,698	16,337,465

(a) *Graphite Concessions*

Through Woxna, the Company holds a 100% interest in the Woxna Graphite Mine, comprising four concessions, known as Kringelgruvan, Mattsmyra, Gropabo and Mansberg. The Woxna Graphite Mine is located in Ovanaker Municipality, Gavleborg County, central Sweden.

In 1993 Woxna entered into agreements under which it acquired:

- (i) the Kringelgruvan concession for an initial payment of SEK 150,000 and a further payment of SEK 4,000,000 (the "Property Acquisition Obligation"); and
- (ii) the Mattsmyra, Gropabo and Mansberg concessions (the "Graphite Concessions") for an initial payment of SEK 32,500 and a further payment of SEK 1,000,000 on each of the three concessions (the "Additional Consideration").

Payment of the Property Acquisition Obligation and the Additional Consideration is to be made to a Swedish governmental agency and will be based on annual production, at a rate of SEK 20 per metric ton processed and is payable only once accumulated profits have been generated from the individual

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4. Exploration and Evaluation Assets (continued)

concessions. No production has commenced on the Mattsmyra, Gropabo and Mansberg concessions and the additional payments are considered to be contingent amounts and will only be recognized as obligations when production commences on these concessions.

During fiscal 2014 the technical feasibility and commercial viability of the Kringelgruvan concession and the Woxna Graphite Mine was demonstrated, transitioning the Kringelgruvan concession to the development stage of mining. Accordingly, the costs of the exploration and evaluation assets attributed to the Kringelgruvan concession and the Woxna Graphite Mine were reclassified to property, plant and equipment. See also Note 6.

(b) *Norra Karr*

The Norra Karr Property consists of an exploration license, valid until August 31, 2026, located in south-central Sweden. The exploration license has been subject to ongoing legal opposition and appeals. In June 2020 the Company received confirmation from the Mining Inspectorate of Sweden that the exploration license was extended to August 31, 2024. The extension of the exploration license was appealed and in March 2022, the Court of Appeal in Sundsvall ruled to deny leave to appeal the extension of the exploration license. Legislative change was passed in 2021 and 2022 to extend exploration licenses due to the Covid pandemic. The Norra Karr exploration license is thus now valid until August 31, 2026. In May 2021, the Norra Karr Mining lease application was rejected by the Mining Inspectorate of Sweden, subsequently the Company made an appeal against this decision to the Government of Sweden. On June 21, 2022 the Company took a decision to initiate a Natura 2000 permit application process for the Norra Karr project and retract the appeal against the previous mining lease application rejection for Norra Karr.

(c) *Bergby*

On April 29, 2021, the Company completed the sale to United Lithium Corp. ("ULTH") of 100% of the issued and outstanding share capital of Bergby Lithium AB ("Bergby"). In consideration for the shares of Bergby, the Company's wholly owned subsidiary, GREENNA Mineral AB as the owner of the Bergby shares, received from ULTH:

- CAD 250,000 in cash;
- 1,031,864 common shares in the capital of ULTH.
- 400,000 common share purchase warrants, with each Warrant entitling the Company to acquire, until April 29, 2024, one common share in the capital of ULTH at an exercise price equal to approximately CAD 0.485; and
- a 2% net smelter returns royalty on the Bergby Project, which is subject to a buyback right in favor of ULTH, exercisable for CAD 1,000,000.

The ULTH Shares are escrowed and will be released in tranches over a 20-month period as at April 30, 2022, 619,118 shares have been released. ULTH also paid an additional CAD 250,000 in cash on October 21st, 2021.

(d) *Anode Project*

The Anode Project encompasses the ongoing development towards the possible production of a high purity natural graphite anode material for the lithium-ion battery industry using flake graphite concentrate from the Woxna Graphite mine as a feedstock. The development work involves various metallurgical test work and engineering of the production process and if successful would eventually lead to the establishment of a dedicated anode material factory in Sweden.

(e) *Romania Exploration Project*

In fiscal 2017 the Company and REMAT Group Management SRL ("REMAT") agreed to pursue the investigation and initiation of a prospecting permit application over the Bihor Sud perimeter in Romania. REMAT proceeded to incorporate LEM Resources SRL ("LEM Romania") in fiscal 2017. LEM Romania successfully applied for a non-exclusive prospecting permit (the "Permit") over 25.5 square kilometers in the Bihor area. On August 9, 2018, the Company and REMAT completed a share

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4. Exploration and Evaluation Assets (continued)

purchase agreement (the "Share Purchase Agreement") and executed a shareholders' joint venture agreement whereby the Company acquired an initial 51% ownership interest (the "Initial Interest") in LEM Romania, by issuing 367,006 common shares of the Company at a fair value of \$165,152. As LEM Romania had no assets or liabilities at the time of acquisition of the initial interest, the Company has recorded the initial consideration as general exploration expenses. The permitting process for an exclusive exploration license for the area is ongoing and only once such exclusive license is obtained will costs be capitalized. Until such time all costs will be expensed. See Note 12.

The Company can acquire an additional 39% interest in LEM Romania (for an aggregate 90% interest) by issuing up to an additional 2,202,036 common shares, as follows:

- (i) 550,509 common shares following the granting of an exploration license; See Note 12.
- (ii) 734,012 common shares on completion of a National Instrument 43-101 compliant resource estimate (the "Resource Estimate"); and
- (iii) 917,515 common shares on completion of a feasibility study.

The Company was required to fund all exploration expenditures and was required to incur a minimum of EUR 150,000 on exploration expenditures by April 26, 2020, which has been met. The Company is also required to issue up to 8,074,136 common shares (the "Bonus Shares"), which will be based on certain historic resource estimates and the Resource Estimate. A finder's fee of 5% (the "Finder's Fee") will be paid in stages, concurrently with the issuance of common shares under the Share Purchase Agreement. On August 9, 2018 the Company issued 18,350 common shares, at a fair value of \$8,258. for the initial Finder's Fee. The initial Finder's Fee consideration was also recorded as general exploration expenses See Note 12.

5. Property, Plant and Equipment

Cost:	Vehicles \$	Equipment and Tools \$	Building \$	Manufacturing and Processing Facility \$	Mineral Property Acquisition and Development Costs \$	Total \$
Balance at October 31, 2020	16,094	287,018	344,139	7,567,878	8,123,928	16,339,057
Adjustment to site restoration	-	-	-	-	2,876,917	2,876,917
Balance at October 31, 2021	16,094	287,018	344,139	7,567,878	11,000,845	19,215,974
Adjustment to site restoration	-	-	-	-	(3,863,124)	(3,863,124)
Balance at April 30, 2022	16,094	287,018	344,139	7,567,878	7,137,721	15,352,850
Accumulated Depreciation and Impairment:						
Balance at October 31, 2020	(2,606)	(261,717)	(115,515)	(3,910,218)	(5,000,000)	(9,290,056)
Depreciation	(1,071)	(2,011)	(30,623)	-	-	(33,705)
Balance at October 31, 2021	(3,677)	(263,728)	(146,138)	(3,910,218)	(5,000,000)	(9,323,761)
Depreciation	(400)	(751)	(11,440)	-	-	(12,591)
Balance at April 30, 2022	(4,078)	(264,479)	(157,578)	(3,910,218)	(5,000,000)	(9,336,352)
Carrying Value:						
Balance at October 31, 2021	12,417	23,290	198,001	3,657,660	6,000,845	9,892,213
Balance at April 30, 2022	12,016	22,539	186,561	3,657,660	2,137,721	6,016,498

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5. Property, Plant and Equipment (continued)

During fiscal 2014 technical feasibility and commercial viability of the extraction of mineral resources at the Woxna Graphite Mine was demonstrated, transitioning the Company to the development stage of mining. Upon the transition, costs on the exploration and evaluation assets attributed to the mine were reclassified to property, plant and equipment. On August 1, 2015, the refurbishment and commissioning of the Woxna Graphite Mine was completed.

During fiscal 2019 management assessed whether there were any indications of impairment of the Company's property, plant and equipment as required by IAS 36. In light of the continued suspension of the operations of the Woxna Graphite Mine, large net loss and the low trading value of the Company's common shares, management concluded there were indications of impairment.

When indications of impairment are determined to be present, IAS 36 requires the Company to estimate the recoverable amount of the Company's property, plant and equipment. The Company did not have sufficient verifiable information to prepare adequately detailed and meaningful calculations of fair value less costs of disposal or value in use. Therefore, the Company applied a value in use method that took into account the Company's financial position and results of operations and operational issues among other factors in determining an estimated recoverable amount. This method indicated that an impairment provision of \$8,800,000 was appropriate in fiscal 2019.

As at April 30, 2022 the Company has recognized \$521,600 (October 31, 2021 - \$579,600) for the Property Acquisition Obligation associated with the Kringelgruvan concession, as described in Note 4(a)(i).

6. Provision for Site Restoration

Although the ultimate amount of the decommissioning obligation for the Kringelgruvan concession is uncertain, the fair value of this obligation is based on information currently available. Significant closure activities include land rehabilitation, demolition of buildings and mine facilities and other costs. The provision for site restoration may be subject to change based on management's current estimates, changes in remediation technology or changes to the applicable laws and regulations. The total undiscounted amount of estimated cash flows to settle the Company's risk adjusted estimated obligation is SEK 40,000,000 and is expected to be incurred in 2041.

The fair value of the decommissioning obligation was calculated using a discounted cash flow approach based on a risk-free rate of 1.7% (2021 - 0.36%) and an inflation factor of 2.0% (2021- 2.8%). The company has changed its inflation estimate from CPIF (Consumer Price Index with a Fixed interest rate) to the Swedish Riksbank's target inflation rate. Settlement of the obligation is expected to be funded from general corporate funds at the time of decommissioning. Changes to the decommissioning obligation were as follows:

	\$
Balance at October 31, 2020	6,458,606
Accretion	31,564
Revision of estimates	3,043,769
Foreign exchange adjustment	<u>(166,853)</u>
Balance at October 31, 2021	9,367,086
Accretion	20,402
Revision of estimates	(2,925,768)
Foreign exchange adjustment	<u>(937,355)</u>
Balance at April 30, 2022	<u>5,524,364</u>

As at April 30, 2022 reclamation deposits totaling \$102,455 (October 31, 2021 - \$105,637) have been paid. The reclamation deposits were placed as security for site restoration on the Kringelgruvan concession and on certain exploration and evaluation assets.

As at April 30, 2022 the Mattsmyra, Gropabo and Mansberg concessions remain undeveloped and there are no property restoration obligations relating to these concessions.

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7. Share Capital

(a) **Authorized Share Capital**

The Company's authorized share capital consists of an unlimited number of common shares without par value. All issued common shares are fully paid.

(b) **Equity Financings**

Six Months ended April 30, 2022

During six months ended April 30, 2022, 4,421,428 warrants and 200,000 options were exercised for gross proceeds of \$1,620,500 and \$45,000 respectively.

Year Ended October 31, 2021

During the year ended October 31, 2021, 493,109 options and 63,571 warrants were exercised for gross proceeds of \$95,348 and \$6,357 respectively.

(c) **Warrants**

During the six month period ended April 30, 2022, 4,421,428 warrants were exercised at an average price of \$0.37 per share for gross proceeds of \$1,620,500. Also 1,663,570 warrants expired on November 21, 2021.

A summary of the number of common shares reserved pursuant to the Company's outstanding warrants at April 30, 2022 and October 31, 2021, and the changes for the periods ended on those dates is as follows:

	2022		2021	
	Number	Weighted Average Exercise Price \$	Number	Weighted Average Exercise Price \$
Balance beginning of period	55,164,284	0.19	55,227,855	0.19
Issued	-	-	-	-
Exercised	(4,421,428)	0.37	(63,571)	0.10
Expired	(1,663,570)	0.37	-	-
Balance end of period	49,079,286	0.17	55,164,284	0.19

The following table summarizes information about the number of common shares reserved pursuant to the Company's warrants outstanding and exercisable at April 30, 2022:

Number	Exercise Price \$	Expiry Date
17,079,286	0.10	December 30, 2023
<u>32,000,000</u>	<u>0.20</u>	August 7, 2024
<u>49,079,286</u>	<u>0.17</u>	

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7. Share Capital (continued)

(d) **Share Option Plan**

The Company has established a rolling share option plan (the "Plan"), in which the maximum number of common shares which can be reserved for issuance under the Plan is 10% of the issued and outstanding shares of the Company. The minimum exercise price of the options is set at the Company's closing share price on the day before the grant date, less allowable discounts. Options granted may be subject to vesting provisions as determined by the Board of Directors and have a maximum term of up to five years.

3,200,000 stock options were granted at an exercise price of \$0.62 during the six months ended April 30, 2022 (2021 - Nil). The value of options granted was determined using the Black-Scholes option pricing model. A weighted average grant date fair value of \$0.4442 (2021 -Nil) was calculated using expected stock price volatility of 122%, risk free rate of 1.42% and option life of three years.

During the six-month ended April 30, 2022, 200,000 options were exercised at an average price of \$0.225 per share for gross proceeds of \$45,000.

Option-pricing models require the use of estimates and assumptions including the expected volatility. Changes in the underlying assumptions can materially affect the fair value estimates and, therefore, existing models do not necessarily provide reliable measure of the fair value of the Company's share options.

A summary of the Company's share options at April 30, 2022 and October 31, 2021 and the changes for the period ended on those dates is as follows:

	2022		2021	
	Number of Options Outstanding	Weighted Average Exercise Price \$	Number of Options Outstanding	Weighted Average Exercise Price \$
Balance beginning of period	5,870,000	0.31	10,008,109	0.34
Issued	3,200,000	0.62	-	-
Exercised	(200,000)	0.225	(493,109)	0.19
Expired	(400,000)	0.64	(3,645,000)	0.40
Balance end of period	8,470,000	0.42	5,870,000	0.31

The following table summarizes information about the share options outstanding and exercisable at April 30, 2022:

Number	Exercise Price \$	Expiry Date
400,000	0.225	May 30, 2022
1,320,000	0.64	November 2, 2022
3,400,000	0.155	August 11, 2023
150,000	0.33	August 14, 2023
3,200,000	0.62	January 27, 2025
8,470,000		

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8. Related Party Disclosures

Key management personnel include those persons having authority and responsibility for planning, directing and controlling the activities of the Company as a whole. The Company has determined that key management personnel consist of members of the Company's Board of Directors and its executive officers.

(a) During the period ended April 30, 2022 and 2021 the following compensation was incurred:

	2022	2021
	\$	\$
Directors and officer's compensation (current and former)	198,039	215,680
Share based compensation	-	-
	<u>198,039</u>	<u>215,680</u>

As at April 30, 2022, \$2,677 (October 31, 2021 - \$9,946) remained unpaid and has been included in accounts payable and accrued liabilities.

(b) SKS Business Services Ltd., a private corporation owned by Sanjay Swarup (appointed as Chief Financial Officer ("CFO") of the Company on March 1, 2021), provides accounting and administrative services. During the period ended April 30, 2022, the Company incurred \$23,571 (2021 - \$15,188) for accounting services by SKS Business Services.

Chase Management Ltd. ("Chase"), a private corporation owned by the former Corporate Secretary of the Company, provides administrative services. During the period ended April 30, 2022, the Company incurred \$629 (2021 - \$36,099) for services provided by Chase personnel and \$NIL (2021 - \$1,675) for rent. As at April 30, 2022, \$NIL (2021 - \$15,785) remained unpaid.

9. Financial Instruments and Risk Management

Categories of Financial Assets and Financial Liabilities

Financial instruments are classified into one of the following categories: fair value through profit or loss ("FVTPL"); amortized cost; fair value through other comprehensive income ("FVOCI"). The carrying values of the Company's financial instruments are classified into the following categories:

Financial Instrument	Category	April 30, 2022	October 31, 2021
		\$	\$
Cash	FVTPL	1,912,655	1,316,797
Reclamation deposit	amortized cost	102,455	105,637
Investments	FVTPL	404,725	981,732
Accounts payable and accrued liabilities	amortized cost	(147,945)	(205,250)
Property acquisition obligation	amortized cost	(521,600)	(579,600)

The Company's financial instruments recorded at fair value require disclosure about how the fair value was determined based on significant levels of inputs described in the following hierarchy:

Level 1 - Quoted prices are available in active markets for identical assets or liabilities as of the reporting date. Active markets are those in which transactions occur in sufficient frequency and value to provide pricing information on an ongoing basis.

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9. Financial Instruments and Risk Management (continued)

Level 2 - Pricing inputs are other than quoted prices in active markets included in Level 1. Prices in Level 2 are either directly or indirectly observable as of the reporting date. Level 2 valuations are based on inputs including quoted forward prices for commodities, time value and volatility factors, which can be substantially observed or corroborated in the marketplace.

Level 3 - Valuations in this level are those with inputs for the asset or liability that are not based on observable market data.

The recorded amounts for amounts receivable and accounts payable and accrued liabilities approximate their fair value due to their short-term nature. The recorded amounts for the reclamation deposit and property acquisition obligation approximate their fair value. The Company's fair value of cash under the fair value hierarchy is measured using Level 1.

The Company's risk exposures and the impact on the Company's financial instruments are summarized below:

Credit Risk

Credit risk is the risk of loss associated with a counterparty's inability to fulfill its payment obligations. The Company's credit risk is primarily attributable to cash, amounts receivable and reclamation deposit. Management believes that the credit risk concentration with respect to financial instruments included in cash, amounts receivable and reclamation deposit is remote.

Liquidity Risk

Liquidity risk is the risk that the Company will not have the resources to meet its obligations as they fall due. The Company manages this risk by closely monitoring cash forecasts and managing resources to ensure that it will have sufficient liquidity to meet its obligations. The following table is based on the contractual maturity dates of financial assets and liabilities and the earliest date on which the Company can be required to settle financial liabilities.

Contractual Maturity Analysis at April 30, 2022

	Carrying Amount \$	Contractual Cash Flows \$	Less than 3 Months \$	1 - 5 Years \$	Over 5 Years \$
Cash	1,912,655	1,912,655	1,912,655	-	-
Reclamation deposit	102,455	102,455	-	-	102,455
Investments	404,725	404,725	179,544	225,181	-
Accounts payable and accrued liabilities	(147,945)	(147,945)	(147,945)	-	-
Property acquisition obligation	(521,600)	(521,600)	-	(521,600)	-

Market Risk

Market risk is the risk of loss that may arise from changes in market factors such as interest rates, foreign exchange rates, and commodity and equity prices. These fluctuations may be significant.

Interest Rate Risk

The Company is exposed to interest rate risk to the extent that the cash bear floating rates of interest. The interest rate risk on cash and on the Company's obligations are not considered significant.

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9. Financial Instruments and Risk Management (continued)

Foreign Currency Risk

The Company's functional currency is the Canadian Dollar and major transactions are transacted in Canadian Dollars and Swedish Krona ("SEK"). The Company maintains SEK bank accounts in Sweden to support the cash needs of its foreign operations. Management believes the foreign exchange risk related to currency conversions is minimal and therefore does not hedge its foreign exchange risk. At April 30, 2022, 1 Canadian Dollar was equal to 7.67 SEK as per Swedish Central Bank.

Balances are as follows:

	SEK	CDN \$ Equivalent
Cash	712,853	92,956
VAT receivable	118,252	15,420
Inventories	621,242	81,010
Plant stores and supplies	631,779	82,384
Reclamation deposit	785,698	102,455
Accounts payable and accrued liabilities	(424,609)	(55,369)
Property acquisition obligation	<u>(4,000,000)</u>	<u>(521,600)</u>
	<u>(1,554,785)</u>	<u>(202,744)</u>

Based on the net exposures as of April 30, 2022 and assuming that all other variables remain constant, a 10% fluctuation of the Canadian Dollar against the SEK would result in the Company's net impact being approximately \$20,274 higher or lower.

Capital Management

The Company manages its capital structure and makes adjustments to it, based on the funds available to the Company, in order to support the acquisition and exploration mineral properties. The Board of Directors does not establish quantitative return on capital criteria for management, but rather relies on the expertise of the Company's management to sustain development of the business. The Company defines capital that it manages as share capital and cash. The Company will continue to assess new properties and seek to acquire an interest in additional properties if it feels there is sufficient geologic or economic potential and if it has adequate financial resources to do so. Management reviews its capital management approach on an ongoing basis and believes that this approach, given the relative size of the Company, is reasonable.

10. Supplemental Cash Flow Information

During the six months ended April 30, 2022 and 2021 non-cash activities were conducted by the Company as follows:

	2022 \$	2021 \$
Operating activity		
Provision for site restoration	<u>(3,863,124)</u>	<u>1,564,936</u>
Investing activity		
Revisions of estimates on property, plant and equipment	<u>3,863,124</u>	<u>(1,564,936)</u>

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11. Segmented Information

The Company is involved in the exploration and development of resource properties in Sweden with corporate operations in Canada and accordingly, has no reportable segment revenues or operating results. The Company's total assets are segmented geographically as follows:

As at April 30, 2022

	Corporate Canada \$	Mineral Projects Sweden \$	Mineral Projects Romania \$	Total \$
Current assets	1,836,891	699,322	8,216	2,544,429
Exploration and evaluation assets	-	16,337,465	-	16,337,465
Property, plant and equipment	-	6,016,498	-	6,016,498
Reclamation deposit	-	102,455	-	102,455
	<u>1,836,891</u>	<u>23,155,740</u>	<u>8,216</u>	<u>25,000,847</u>

As at October 31, 2021

	Corporate Canada \$	Mineral Projects Sweden \$	Mineral Projects Romania \$	Total \$
Current assets	1,031,982	1,522,534	900	2,555,416
Exploration and evaluation assets	-	16,203,140	-	16,203,140
Property, plant and equipment	-	9,892,213	-	9,892,213
Reclamation deposit	-	105,637	-	105,637
	<u>1,031,982</u>	<u>27,723,524</u>	<u>900</u>	<u>28,756,406</u>

12. Events after the Reporting Period

On May 17, 2022, the Company signed Bihor Sud Exploration License between the Company's subsidiary LEM Romania SRL and National Agency for Mineral Resources, Romania.

On May 30, 2022, 250,000 and 50,000 options with exercise price of \$0.255 were exercised.

On June 2, 2022, the Company issued 550,509 shares to REMAT and 27,525 shares were issued as finder fees as per joint venture agreement for the Bihor Sud project.

On June 21, 2022, the Company took a decision to initiate a Natura 2000 permit application process for the Norra Karr project and retract the appeal against the mining lease rejection for Norra Karr.



LEADING EDGE MATERIALS CORP.

MANAGEMENT'S DISCUSSION AND ANALYSIS FOR THE SIX MONTHS ENDED APRIL 30, 2022

This discussion and analysis of financial position and results of operation is prepared as at June 22, 2022 and should be read in conjunction with the unaudited condensed consolidated interim financial statements for the six months ended April 30, 2022 of Leading Edge Materials Corp. ("Leading Edge Materials" or the "Company"). The following disclosure and associated financial statements are presented in accordance with International Financial Reporting Standards ("IFRS"). Except as otherwise disclosed, all dollar figures included therein and in the following management discussion and analysis ("MD&A") are quoted in Canadian dollars. Additional information relevant to the Company's activities can be found on SEDAR at www.sedar.com.

Forward Looking Statements

Certain information in this MD&A may constitute forward-looking statements or forward-looking information within the meaning of applicable Canadian securities laws (collectively, "Forward-Looking Statements"). All statements, other than statements of historical fact, addressing activities, events or developments that the Company believes, expects or anticipates will or may occur in the future are Forward-Looking Statements. Forward-Looking Statements are often, but not always, identified by the use of words such as "seek," "anticipate," "believe," "plan," "estimate," "expect," and "intend" and statements that an event or result "may," "will," "can," "should," "could," or "might" occur or be achieved and other similar expressions. Forward-Looking Statements are based upon the opinions and expectations of the Company based on information currently available to the Company. Forward-Looking Statements are subject to a number of factors, risks and uncertainties that may cause the actual results of the Company to differ materially from those discussed in the Forward-Looking Statements including, among other things, the Company has yet to generate a profit from its activities; there can be no guarantee that the estimates of quantities or qualities of minerals disclosed in the Company's public record will be economically recoverable; uncertainties relating to the availability and costs of financing needed in the future; competition with other companies within the mining industry; the success of the Company is largely dependent upon the performance of its directors and officers and the Company's ability to attract and train key personnel; changes in world metal markets and equity markets beyond the Company's control; the possibility of write-downs and impairments; the risks associated with uninsurable risks arising during the course of exploration; development and production; the risks associated with changes in the mining regulatory regime governing the Company; the risks associated with tenure to the Norra Karr property; the risks associated with the various environmental regulations the Company is subject to; rehabilitation and restitution costs; the Woxna project has never defined a mineral reserve or a feasibility study and the associated increased risk of technical and economic failure in case of restarting production; risks relating to the preliminary and non-binding nature of the MOU with Sicona.

On June 9, 2021, Leading Edge announced the results of an independent preliminary economic assessment for the development of Woxna (the "2021 Woxna PEA"), the full details of which are included in a technical report entitled "NI 43-101 Technical Report – Woxna Graphite" prepared for Woxna Graphite AB with effective date June 9, 2021 and issue date July 23, 2021, available on Leading Edge's website www.leadingedgematerials.com and under its SEDAR profile www.sedar.ca. The 2021 Woxna PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized. Mineral resources that are not mineral reserves do not have demonstrated economic viability.

On July 22, 2021, Leading Edge announced the results of an independent preliminary economic assessment for the development of Norra Karr (the "2021 Norra Karr PEA"), the full details of which are included in a technical report titled "PRELIMINARY ECONOMIC ASSESSMENT OF NORRA KARR RARE EARTH DEPOSIT AND POTENTIAL BY-PRODUCTS, SWEDEN" prepared for Leading Edge Materials Corp. with effective date August 18, 2021 and issue date August 19, 2021, available on Leading Edge's website www.leadingedgematerials.com and under its SEDAR profile www.sedar.ca. The 2021 Norra Karr PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized. Mineral resources that are not mineral reserves do not have demonstrated economic viability.

Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in the Forward-Looking Statements, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that such Forward-Looking Statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such Forward-Looking Statements. Such Forward-Looking Statements has been provided for the purpose of assisting investors in understanding the Company's business, operations and exploration plans and may not be appropriate for other purposes. Accordingly, readers should not place undue reliance on Forward-Looking Statements. Forward-Looking Statements are made as of the date hereof, and the Company does not undertake to update such Forward-Looking Statements except in accordance with applicable securities laws.

COVID-19

On March 11, 2020, the World Health Organization ("WHO") declared the novel coronavirus outbreak identified as "COVID-19", as a global pandemic. In order to combat the spread of COVID-19 governments worldwide have enacted emergency measures including travel bans, legally enforced or self-imposed quarantine periods, social distancing and business and organization closures. These measures have caused material disruptions to businesses, governments and other organizations resulting in an economic slowdown and increased volatility in national and global equity and commodity markets. The Company has implemented safety and physical distancing procedures, including working from home where possible and ceased all travel, as recommended by the various governments. The Company will continue to monitor the impact of the COVID-19 outbreak, the duration and impact which is unknown at this time, as is the efficacy of any intervention. It is not possible to reliably estimate the length and severity of these developments and the impact on the financial results and condition of the Company and its operations in future periods.

Corporate Overview

The Company was incorporated on October 27, 2010, under the *Business Corporations Act* (British Columbia) as Tasex Capital Limited. The Company's common shares began trading on the TSX Venture Exchange (the "TSXV") as a capital pool company on June 10, 2011. On February 22, 2012, the Company completed the acquisition of the Woxna Project and changed its name to Flinders Resources Limited. On August 25, 2016, the Company completed the acquisition of Tasman Metals Ltd. ("Tasman") and changed its name to Leading Edge Materials Corp. The Company's common shares trade on the TSXV as a Tier 1 mining issuer under the symbol "LEM", on the OTCQB under the symbol "LEMIF", on the Nasdaq First North, trading under the symbol "LEMSE" and on Frankfurt under the symbol "7FL". The Company's principal office is located at 14th Floor, 1040 West Georgia Street, Vancouver, British Columbia V6E 4H1. The Company's strategy is focused on developing a portfolio of critical raw material projects located in the European Union. Critical raw materials are determined as such by the European Union based on their economic importance and supply risk. They are directly linked to high growth technologies such as batteries for electromobility and energy storage and permanent magnets for electric motors and wind power that underpin the clean energy transition towards climate neutrality. The portfolio of projects includes the 100% owned Woxna Graphite mine (Sweden), Norra Karr HREE project (Sweden) and the 51% owned Bihor Sud Nickel Cobalt exploration alliance (Romania).

As at the date of this MD&A the Board of Directors and Officers of the Company are:

Filip Kozlowski	- CEO
Manuela Balaj-Coroiu	- Corporate Secretary
Sanjay Swarup	- CFO
Lars-Eric Johansson	- Director and Non-Executive Chairman
Eric Krafft	- Director
Daniel Major	- Director

Mangold Fondkommission AB is the Company's Certified Adviser on Nasdaq First North and may be contacted via email CA@mangold.se or by phone +46 (0) 8 5030 1550.

Highlights During and After the Quarter

During the three months ended April 30, 2022:

- The Company commenced an evaluation to restart graphite production at Woxna Mine due to improved market conditions.
- Norra Karr Exploration License Remains in Full Force After Court Decision.
- The Company appointed Manuela Balaj-Coroiu as Company Secretary.
- The Company held its Annual and Special Meeting of Shareholders.

Subsequent to April 30, 2022:

- On May 17, 2022 the Company signed Bihor Sud Exploration License between the Company's subsidiary LEM Romania SRL and National Agency for Mineral Resources, Romania.
- On June 21, 2022 the Company took a decision to initiate a Natura 2000 permit application process for the Norra Karr project and retract the appeal against the mining lease rejection for Norra Karr.

Outlook

Over the last few months the world has experienced deflating stock prices led by growth/tech stocks after significant jumps in various inflation measures. The latter being driven by continued supply chain disruptions, component shortages, high energy prices and increasing raw material costs. Graphite prices have remained stable since the last quarter¹ whereas rare earth prices have given back some of their extreme gains from earlier this year².

Politicians across the western world are increasingly launching efforts to address their respective raw materials security in a new geopolitical world with Russia's war on Ukraine continuing, Europe is working on a critical raw materials act to strengthen the legislative role of critical raw materials³. A recent initiative from the US brings together ally countries, Sweden being one, to collaborate around increasing critical raw materials resilience in the form of a *Minerals Security Partnership*. A key objective of the partnership is to "catalyze investment from governments and the private sector for strategic opportunities"⁴.

In Sweden concrete actions are being taken to unlock some of the past bottlenecks in permitting of raw material projects. The government launched an investigation to propose legislative changes to clarify that a Natura 2000 permit should be part of the environmental permitting process and not the mining lease permit⁵. In addition, as an addendum to an already ongoing investigation the government instructed to investigate whether critical raw materials could be granted preferential status under the Environmental Act alongside other competing land use interests⁶.

For the Woxna Graphite project, we are in dialogue with the downstream graphite market to evaluate opportunities for the potential product sales of flake graphite concentrate prior to making a final decision on restarting production at the Woxna Graphite mine. In parallel, the batches of spherical purified graphite produced by our preferred equipment suppliers have been sent to Sicona's pilot plant in Australia for final upgrading to active anode materials that can be tested and sent as samples to potential future customers.

¹ <https://www.indmin.com/Article/5102474/Graphite/Weaker-expandable-demand-weighs-on-fob-China-large-flake-graphite-prices.html>

² <https://www.metal.com/price/Rare%20Earth/Rare-Earth-Oxides>

³ https://ec.europa.eu/commission/presscorner/detail/en/STATEMENT_22_3643

⁴ <https://www.state.gov/minerals-security-partnership/>

⁵ <https://www.regeringen.se/pressmeddelanden/2022/05/natura-2000-tillstand-i-samband-med-gruvverksamhet---nu-utreds-fragan/>

⁶ <https://www.regeringen.se/pressmeddelanden/2022/06/tillaggsdirektiv-till-utredningen-om-att-sakerstalla-en-hallbar-forsorjning-av-innovationskritiska-metaller-och-mineral/>

For the Norra Karr project, in contrast to recent trends in potential legislative change, on June 20, 2022, the Supreme Administrative Court of Sweden ruled in the Boliden Laver case⁷ confirming that current legislation requires a Natura 2000 permit prior to the evaluation of a mining lease. Since our appeal to the Government against the Mining Inspectorate's rejection of the Norra Karr mining lease application in May 2021 was made on largely the same basis as the Boliden Laver case⁸, we decided to retract our appeal against the Norra Karr mining lease rejection. With the current legal framework now clarified, we took the decision to initiate a Natura 2000 permit application process for the Norra Karr project. By initiating a Natura 2000 permit process based on the new design of the Norra Karr project we will benefit from authorities and other stakeholders evaluating the merits of the project based on the most recent plans. In parallel, through the various environmental and metallurgical studies that may be required to support the Natura 2000 permit application the Company can further progress the Norra Karr project towards its next stages of feasibility development. We will continue to adapt our path should the legal framework evolve going forward.

Lastly, it was with great excitement that we could finally sign the exclusive exploration license for our Romanian project. It has been a long wait to get here, but now we are rapidly moving to put together the team on the ground and submit the required work plans to start our exploration work and demonstrate the potential this project offers us.

In recent weeks the Company has attended the VRIC conference in Vancouver and PDAC in Toronto. Although the general market sentiment clouded optimism, it was clear that the raw materials needed for the energy transition are in high demand and gaining increasing attention as other areas of the market loses attraction.

⁷ <https://www.domstol.se/globalassets/filer/domstol/hogstaforvaltningsdomstolen/2022/domar-och-beslut/798-21.pdf>

⁸ <https://leadingedgematerials.com/leading-edge-materials-appeals-norra-karr-mining-lease-application-rejection-to-the-government-of-sweden/>

Projects Overview

Woxna Graphite Mine and Anode Project

The Woxna graphite mine and production facility is comprised of four graphite deposits, an open pit mine, a permit to process 100,000 tonnes of mineralized material per annum, a processing plant and tailings dam, all located some 8 kilometres ("km") WNW of the town of Edsbyn, Sweden, approximately a 3.5 hour drive north of Stockholm. Access is via 10 km of all-weather forest road from Highway 301. The principal property is the Kringelgruvan concession, where permission to mine remains current until 2041. Ongoing development has been directed towards test work focused on the possible production and modification of high purity graphite using thermal purification technologies for emerging high growth high value markets, one such example being the lithium-ion battery industry (the "Anode Project"). Other potential high-value end-markets being investigated are purified micronized graphite for metallurgical and electroconductive additives and purified large flake graphite as a precursor for the production of expandable graphite suitable as a feed for graphite foil and fuel cell bipolar plates.

On June 9, 2021, the Company announced Preliminary Economic Assessment ("PEA") results for a vertically integrated mine to anode material production, the full details subsequently included in the technical report entitled "NI 43-101 Technical Report – Woxna Graphite" prepared for Woxna Graphite AB with effective date June 9, 2021 and issue date July 23, 2021, available on Leading Edge's website www.leadingedgematerials.com and under its SEDAR profile www.sedar.ca. The main results are the following where all figures are US dollars unless otherwise specified;

Main PEA Highlights

- The PEA indicates the potential viability of a Swedish operation producing battery grade graphite anode material utilizing an existing graphite mine and concentrator with the addition of a value-add processing facility offsite;
- The proposed process route in the PEA uses a thermal purification process which, combined with access to low cost hydropower offers a low carbon footprint for the Project which was demonstrated in a subsequent life cycle assessment (LCA) report. The PEA also focused on improved waste management process for tailings further improving the sustainability ambitions of the Project;
- The Report shows a financially robust Project with average annual EBITDA of \$49m and a pre-tax Internal Rate of Return (IRR) of 42.9%;
- The PEA utilizes one out of four deposits currently owned by Woxna under granted exploitation concessions, where two of the other deposits also have indicated and inferred mineral resource estimates offering potential upside for further expansion in future development or studies;

Project Financial Highlights

- Pre- and post-tax Net Present Value (NPV) of \$317m and \$248m using an 8% discount rate Pre- and Post-tax IRR of 42.9% and 37.4% Accumulated project revenues of \$1,425m
- Average annual EBITDA of \$49m
- Initial Capital Expenditures (CAPEX) of \$121m
- Pre-tax Payback Period from first production of 2.24 years
- Operating cost per tonne of coated spherical purified graphite (CSPG) of \$2,519 after revenue credit from micronized graphite product

Operational Highlights

- Life of Project (LOP) is 19 years
- Life of Mine (LOM) is 15 years
- LOM average annual plant feed of 159,967 tonnes
- LOM average annual CSPG product 7,435 tonnes
- LOM average annual micronized graphite product 8,421 tonnes
- LOM average strip ratio of 3.7:1

Mineral Resource Estimate – Measured and Indicated

Property	Classification of Mineral Resource	Tonnes (Mt)	Grade C (%)
Kringel	Measured	0.96	9.21
	Indicated	1.65	9.09
	Sub-total Measured + Indicated	2.61	9.13
Gropabo	Indicated	2.33	7.72
Mattsmyra		5.83	7.14
Total	Measured + Indicated	10.77	7.75

Mineral Resource Estimate – Inferred

Property	Classification of Mineral Resource	Tonnes (Mt)	Grade C (%)
Kringel	Inferred	0.39	8.72
Gropabo		0.61	8.07
Mattsmyra		1.51	8.06
Total	Inferred	2.51	8.16

Source: ReedLeyton 2021

Notes:

- Inconsistencies in totals are due to rounding;
- 4% Cg mill cut-off grade applied for reporting purposes constrained within the MPlan 2021 pitshell;
- Reported according to CIM Definition Standards 2011;
- Reported according to CIM Mineral Exploration Best Practice Guidelines (Nov 2018);
- No geological losses applied;
- Default Density of 2.7 t/m³ applied to in situ, then Density of 2.82 t/m³ applied to Type A Graphite and Density of 2.86 t/m³ applied to Type B Graphite for Gropabo and Mattsmyra; and Default Density for Kringel remained at 2.7 t/m³;
- The previous Mineral Resource Estimates for the Project were developed without the constraint of an applied mine plan and open-pit shell. In the light of more rigorous compliance requirements, the Mineral Resources were reported by ReedLeyton within the constraints of the PEA mine plan as a means of demonstrating “reasonable prospects for economic extraction” as required by numerous international reporting codes. No new exploration data was included in the reporting process;
- Effective date of Mineral Resource Estimate is June 9, 2021; and
- Mineral resources are not mineral reserves and do not have demonstrated economic viability;

The PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized.

On June 21, 2021, preliminary LCA results were announced, subsequently confirmed in the final report, showing that the production of 1 tonne of natural graphite anode material (coated spherical purified graphite (“CSPG”) from natural graphite extracted at the Woxna Graphite mine is forecast to have an impact of 1.8 tonnes CO₂ eq. Minviro applied the same methodology in the report to evaluate current Chinese natural and synthetic graphite anode material, with Woxna CSPG demonstrating an 85% to 90% lower impact than the current market dominant Chinese alternatives. A significant factor influencing the dramatically reduced carbon footprint for Woxna Graphite is the access to hydropower as the main electricity source.

On October 6, 2021, the signing of a non-binding Heads of Agreement (the “MOU”) between the Company’s 100% owned Swedish subsidiary Woxna Graphite AB (“WGAB”) and Sydney, Australia, based Sicona Battery Technologies Pty Ltd (“Sicona”) was announced. The Heads of Agreement lays out the path for the establishment of a Sweden based 50/50 Joint Venture (the “JV”) targeting the production of advanced natural graphite and silicon-graphite-carbon composite active anode materials using natural graphite from the

Woxna Graphite mine as feedstock to offer the European lithium-ion battery manufacturing industry a secure and sustainable supply of high-performance anode materials. Sicona is commercialising innovative silicon-graphite-carbon composite anode and binder technology and materials that have been developed over the last ten years at the Australian Institute for Innovative Materials at the University of Wollongong and now owned by Sicona. The MOU lays out certain work packages with the ultimate objective being a Sweden based advanced anode materials production facility targeting an annual production of up to 20,000 tonnes per year of multiple active anode materials products using Woxna graphite feedstock and other complementary suitable feedstocks such as externally sourced silicon and other carbon or graphite materials utilizing Sicona's significant proprietary IP and know-how.

Key points of the JV as envisioned in the MOU;

- The establishment of a Swedish corporation owned 50/50 by WGAB and Sicona to operate the JV out of Sweden;
- The design, funding and launch of a 500 tonnes per annum stage 1 commercial demonstration plant at a suitable location from the Woxna Graphite mine to produce multiple active anode materials products for advanced customer qualification trials;
- Appropriate feasibility study for a 7,000 to 20,000 tonnes per annum full scale commercial production facility;
- Funding, building and operation of a full scale commercial production facility;
- Woxna to enter an offtake agreement with the JV to sell it all of its graphite concentrate production on a graphite related all in cost basis plus a 30% margin, with a cap at the price equivalent to an appropriate graphite pricing benchmark less 15% (the "Off-take Agreement");
- The JV to be granted a non-exclusive, non-transferable, non-sublicensable license for Sicona's IP to produce carbon coated graphite based and silicon-graphite-carbon based active anode materials (the "License Agreements");
- JV to retain exclusivity over the IP in Sweden, with additional timelines proposed to prohibit the licensing of the IP within Europe to other parties; and
- A twelve month exclusivity period during which Woxna and Sicona are prohibited from soliciting alternative transactions to the proposed JV and must deal exclusively with each other (the "Exclusivity Provision").

The establishment of the JV is subject to entering into a definitive binding joint venture agreement governing the Swedish JV corporation (the "Definitive Joint Venture Agreement", and together with the Off-take Agreement and the License Agreements, the "Definitive Agreements"), the Off-take Agreement and the License Agreements and completion of satisfactory due diligence and receipt of all necessary board and regulatory approvals. Other than the Exclusivity Provision and certain other standard provisions relating to confidentiality, expenses and governing law, the MOU is non-binding in nature and neither WGAB nor Sicona are under any obligation to enter into, or continue negotiations regarding, the Definitive Joint Venture Agreement. No binding agreement will exist between WGAB and Sicona relating to a JV unless and until the Definitive Joint Venture Agreement has been finalized and executed. There is no assurance or guarantee that the Definitive Agreements will be executed or materialize.

Bulk trials with preferred equipment suppliers to produce spherical purified graphite have been completed successfully and the materials have been sent to Sicona for further refinement in their recently commissioned pilot plant. These materials will be tested and sent for customer trials as a basis for moving the anode project to the next phase.

In February 2022 (see [news release dated February 11, 2022](#)) the Company announced the initiation of an internal review focused on the potential to restart production at the Woxna graphite mine. The internal review was triggered by a strong development in European graphite pricing, signs of strong graphite demand and continuing supply chain disruptions. Since the commencement of the internal review the underlying fundamental factors leading to the review have continued or strengthened. The Company is actively engaging with the downstream graphite market in order to evaluate the optimal marketing strategy for the planned production prior to making a final investment decision on a restart of production.

Norra Karr Heavy Rare Earth Elements Project

Norra Karr is highly significant within Europe and can deliver a secure long-term source of rare earth elements ("REE"), zirconium, hafnium and niobium to European renewable energy and electric vehicle industries. The Norra Karr REE deposit was acquired by the Company and drill tested in 2009. Following thick intersections of mineralized rock, the project progressed quickly through drill out, metallurgical testing, resource calculation, PEA, environmental and social studies, and Mining Lease application, culminating in a Pre-Feasibility Study ("PFS") completed in 2015.

In August 2020 the Company commissioned SRK Consulting (UK) Limited ("SRK") to produce an updated PEA study to propose a new design of the Norra Karr project with the objective to maximize resource utilization and minimize potential environmental footprint.

On July 22, 2021, the Company announced PEA results for Norra Karr, the full details subsequently included in the technical report titled "PRELIMINARY ECONOMIC ASSESSMENT OF NORRA KARR RARE EARTH DEPOSIT AND POTENTIAL BY-PRODUCTS, SWEDEN" prepared for Leading Edge Materials Corp. with effective date August 18, 2021 and issue date August 19, 2021, available on Leading Edge's website www.leadingedgematerials.com and under its SEDAR profile www.sedar.ca. The main results are the following where all figures are US dollars unless otherwise specified;

Main PEA Highlights (In comparison to the 2015 PFS)

- Significant increase in resource utilization by proposing recovery of nepheline syenite (NS) industrial mineral, zirconium oxide (Zr) and niobium oxide (Nb) products in addition to the rare earth oxide ("REO") products. In the PEA, more than 50% of total mined material is planned to be sold as products compared with previously less than 1% in the 2015 PFS. The PEA also identifies future opportunities to valorize the residual mined material which could potentially result in all mineralized material mined to be treated as potential commercial products.
- Introducing a revised Project flowsheet to minimize the environmental footprint at the Norra Karr site:
 - The Norra Karr site will only include mining and comminution methods consisting of crushing, milling and magnetic separation, eliminating all chemical processing from Norra Karr and associated waste vs the 2015 PFS study. In the PEA following physical separation resulting material streams either are shipped as products or as concentrates for further processing at other locations and a single waste stream to be stored at the Norra Karr site.
 - The rare earth, zirconium and niobium bearing concentrate will be transported to a dedicated off-site location for chemical processing and further recovery.
- The combination of the above, results in a single waste stream at the Norra Karr site consisting of the mineral aegirine which can be dry stacked in a lined impoundment together with waste rock from mining, eliminating the need for a wet tailings storage facility. This new design substantially reduces land area usage of the Project by approximately 80% (see Figure 1) and results in no chemical process tailing dams being required at Norra Karr. These changes considerably reduce the environment risk profile of the Project at Norra Karr.
- In addition, the removal of chemical processing and wet tailings at Norra Karr delivers an overall predicted 51% reduction in water requirements over the life of mine vs the 2015 PFS study. Use of mine dewatering for processing can reduce additional water requirements by almost 100% and the elimination of discharge requirements to local water bodies compared with the 2015 PFS design.
- The PEA introduces the design of an off-site chemical recovery plant located close to reagent supplies within an existing brownfield development area where mixed REO (MREO), Zr and Nb products are planned to be recovered. Residual process waste at the off-site facility consists of neutralized leach residue and gypsum disposed of in geomembrane lined dry stack impoundments. The Report identifies the future potential to further process the gypsum waste into a gypsum product for construction material markets.

Project Financial Highlights

- Pre- and Post-tax Net Present Value (NPV) of \$1,026M and \$762M using a 10% discount rate
- Pre- and Post-tax Internal Rate of Return (IRR) of 30.8% and 26.3%
- Accumulated LoM project revenues of \$9,962M
- Average annual EBITDA of \$206M
- Initial Capital Expenditures (CAPEX) of \$487M
- Pre-tax Payback Period from first production of 5.1 years
- Life of mine average gross basket price per kg of separated mixed REO product at \$53
- Operating cost per kg of separated mixed REO product at \$33 including toll separation charges
- By-product revenue per kg of separated mixed REO product \$19
- Operating cost per kg of separated mixed REO product including toll separation charges and after by-product credit at \$14.57.

Operational Highlights

- Life of Mine (LOM) is 26 years
- LOM average annual
 - Mining rate of 1,150,000 tonnes
 - Strip ratio of 0.32
 - TREO 5,341 tonnes
 - Main magnet rare earth oxides ("MagREO") (Nd, Pr, Dy, Tb) 1,005 tonnes
 - Dy₂O₃: 248 tonnes
 - Tb₂O₃: 36 tonnes
 - Nd₂O₃: 578 tonnes
 - Pr₂O₃: 143 tonnes
 - Nepheline Syenite by-product 732,885 tonnes
 - Zirconium dioxide by-product 10,200 tonnes
 - Niobium oxide by-product 525 tonnes

The Norra Karr deposit average concentration of uranium and thorium based on 9987 samples are extremely low (U 11.4 ppm and Th 10.9 ppm), especially compared with other REE deposits. The various material streams from the new design of the Project have not been tested for radionuclide content. However previous testwork, on both material and waste streams conclude that amounts of uranium and thorium, activity concentrations and indexes would likely fall below thresholds of radioactivity as per the definition of a radioactive substance by the International Atomic Energy Agency (IAEA) and EU guidelines (ANSTO, 2014).

SRK conducted a hazardous waste assessment through HazWasteOnline™ as part of the PEA to determine whether the waste materials contain any hazardous properties. The assessment uses the multi-element assays for the composites and average assays per material type for the 65 waste rock samples plus calculated weighted averages. Based on the project geochemistry the waste rock is classified as non-hazardous, non-inert by the Swedish Waste Ordinance (SFS 2020:614).

Norra Karr Mineral Resource Statement (SRK, 18 August 2021)*

Mineral Resource Classification	Tonnes (Mt)	TREO (%)	ZrO ₂ (%)	Nb ₂ O ₅ (%)	Nepheline Syenite (%)
Inferred	110	0.5	1.7	0.05	65

*Notes:

1. Effective date 18 August 2021.
2. Qualified Person Mr Martin Pittuck MSc C.Eng
3. Mineral Resources are not Mineral Reserves until they have Indicated, or Measured confidence and they have modifying factors applied and they have demonstrated economic viability based on a Feasibility Study or Prefeasibility Study.
4. There is no guarantee that Inferred Mineral Resources will convert to a higher confidence category after future work is conducted.
5. The Mineral Resources reported have been constrained using an open pit shell assuming the deposit will be mined using open pit bulk mining methods and above a cut-off grade of USD150/t, including a 30% premium on projected commodity prices and unconstrained by commodity production rates and the 260m highway buffer zone.

6. The Mineral Resources reported represent estimated contained metal in the ground and has not been adjusted for metallurgical recovery.
7. Total Rare Earth Oxides (TREO) includes: La₂O₃, Ce₂O₃, Pr₂O₃, Nd₂O₃, Sm₂O₃, Eu₂O₃, Gd₂O₃, Tb₂O₃, Dy₂O₃, Ho₂O₃, Er₂O₃, Tm₂O₃, Yb₂O₃, Lu₂O₃, Y₂O₃.
8. Heavy Rare Earth Oxides (HREO) include: Eu₂O₃, Gd₂O₃, Tb₂O₃, Dy₂O₃, Ho₂O₃, Er₂O₃, Tm₂O₃, Yb₂O₃, Lu₂O₃, Y₂O₃
9. HREO is 52% of TREO

Norra Karr Rare Earth Element Distribution

Light REO proportion of Total REO					Heavy REO proportion of Total REO									
La ₂ O ₃	Ce ₂ O ₃	Pr ₂ O ₃	Nd ₂ O ₃	Sm ₂ O ₃	Eu ₂ O ₃	Gd ₂ O ₃	Tb ₂ O ₃	Dy ₂ O ₃	Ho ₂ O ₃	Er ₂ O ₃	Tm ₂ O ₃	Yb ₂ O ₃	Lu ₂ O ₃	Y ₂ O ₃
0.100	0.210	0.030	0.110	0.030	0.004	0.030	0.007	0.050	0.010	0.034	0.005	0.033	0.005	0.340
0.48					0.52									

The PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the PEA will be realized. The rationale for re-evaluation of the Project at the PEA level is justified for the following reasons; Recognition of potentially economic commodities in the mineralization not evaluated in the 2015 PFS, namely nepheline syenite, niobium and zircon, recognition of the need to reduce the project footprint and assess alternatives to a large tailing's facility at the mine site, and the need to minimize waste on the project and have greater utilization of the extracted materials. The Company does not expect the mineral resource estimates contained in the PEA to be materially affected by metallurgical, environmental, permitting, legal, taxation, socio-economic, political, and marketing or other relevant issues.

A 25-year Mining Lease (exploitation concession) was granted to the Company's Swedish subsidiary Tasman Metals AB, now renamed GREENNA Mineral AB, covering Norra Karr in 2013. In 2016, following an appeal to the Supreme Administrative Court in Sweden regarding the decision-making process of the Bergsstaten under the Minerals Act, the Norra Karr Mining Lease reverted from Granted to Application status. On May 5, 2021, Bergsstaten rejected the mining lease application, and the Company has subsequently appealed this decision to the Government of Sweden. On June 20, 2022, the Supreme Administrative Court of Sweden ruled to confirm that current legislation requires a Natura 2000 permit prior to the evaluation of a mining lease leading to the Company retracting the appeal against the Norra Karr mining lease rejection. In accordance with the confirmed legal framework a decision to initiate a Natura 2000 permit application process for the Norra Karr project was taken.

In June 2020, the Company received confirmation that the exploration license for the Norra Karr project received an extension with the Bergsstaten to August 31, 2024. Subsequently the Swedish parliament passed legislation to mitigate the impacts of COVID-19 by giving exploration companies an additional year to carry out their work which extends the Norra Karr exploration license to August 31, 2025. The extension of the exploration license was appealed, and the administrative court of Lulea rejected the appeal in March 2021. The extension of the exploration license was appealed to the next instance, which in March 2022 denied leave to appeal. On June 10, 2022, another law came into force to mitigate the impacts of COVID-19 further extending the Norra Karr exploration license to August 31, 2026.

Bergby Lithium Project

On April 29, 2021 the company completed the sale to United Lithium Corp. (ULTH) of 100% of the issued and outstanding share capital of Bergby Lithium AB. In consideration for the shares of Bergby, the Company's wholly owned subsidiary, GREENNA Mineral AB as the owner of the Bergby shares, received from ULTH:

- CAD 250,000 in cash;
- 1,031,864 common shares in the capital of ULTH.
- 400,000 common share purchase warrants, with each Warrant entitling Tasman Metals to acquire, for a period of 36 months from the closing date of the Transaction, one common share in the capital of ULTH. at an exercise price equal to approximately CAD 0.485; and
- a 2% net smelter returns royalty on the Project, which is subject to a buyback right in favour of ULTH, exercisable for CAD 1,000,000.

The ULTH Shares are escrowed and will be released over a 20-month period, as at April 30, 2022, 619,118 shares have been released. ULTH also paid an additional CAD 250,000 in cash on October 21st, 2021.

Bihor Sud Nickel-Cobalt and Polymetallic Project

In 2018 Leading Edge Materials initiated an Exploration Alliance (the "Exploration Alliance") in Romania focused on the discovery and development of lithium-ion battery raw materials. Following technical and commercial due diligence, Leading Edge Materials established a local branch company ("LEM Romania") of which it is the majority shareholder with the right to earn a 90% interest. During 2018 and early 2019, LEM Romania completed various prospecting, sampling and geological activity across an area of 25.5 sq km (2,550 ha) pertaining to the Bihor Sud Prospecting Permit in central western Romania. On the basis of positive results, in October 2019 LEM Romania elected to submit an Exploration License application to the permitting authority Agenția Națională Pentru Resurse Minerale ("NAMR") for the Bihor Sud area in a competitive tender process. In May 2022, LEM Romania signed the exclusive exploration license with NAMR.

The exploration license perimeter covers a 25 square kilometer area in the Northern Apuseni Mountains of Transylvania. The Apuseni Mountains are located in the northern extension of the Western Tethyan Metallogenic Belt, one of the world's more prominent orogenic belts that hosts numerous significant past producing mines and newly discovered mineral deposits. LEM Romania applied for the License with the goal to expand on indications of high-grade cobalt, nickel and polymetallic mineralization collected in the framework of its earlier prospecting license covering the same area.

Located approximately 90 km south-east from Oradea which is the administrative capital of Bihor County, Bihor Sud lies within the Upper Cretaceous and Neogene Carpathian magmatic arcs which extend from Turkey to Hungary and are host to several well-known mines and mineral deposits such as the Timok-Bor-Majdanpek copper-gold zone, Skouries and Chelopec. The Northern Apuseni Mountains have documented high grade skarn and carbonate replacement mineral deposits and historic production of Cu, Mo, Ag, Au, Zn, U and Pb associated with Tethyan Arc intrusions. Within the License area, there is a significant amount of historical mine works including a substantial former underground uranium mine which stopped production in the 1990s. Approximately 15 km northwest from the License, The Company's local joint-venture partner operates a high-quality dolomite mine, the Baita Skarn Mine, which has historic mining of Cu, Mo, Bi, Au, Ag, Zn, Pb and W.

Under the earlier prospecting work, staff and consultants to LEM Romania compiled historic data, sampled historic mine waste dumps and completed preliminary ground geophysics and soil sampling. Historic mining in the area tapped Co-Ni mineralization deposited at the top of a regional carbonate level and overlying dark schist in the form of replacement bodies and dissemination. Within a 5 x 2 km zone, grab samples were taken from 7 waste dumps near gallery mouths, showing mostly disseminated mineralization in dark schist and carbonate. Both, cobalt and nickel grades in these rocks, are often in the percent-range, increasing strongly as stringers occur, which locally lead to massive Co-Ni-ore pockets.

As part of the exploration license bid, a detailed exploration work program was submitted to NAMR presenting planned activities over 5 years and associated budgets. A detailed plan for each year needs to be submitted to NAMR for approval and the Company is currently working towards getting approval for the first year of work in order to commence exploration activities.

Qualified Person

The scientific, technical and economic information related to the Norra Karr project has been reviewed and approved by Dr. Rob Bowell of SRK Consulting (UK) Ltd, a chartered chemist of the Royal Society of Chemistry, a chartered geologist of the Geological Society of London, and a Fellow of the Institute of Mining, Metallurgy and Materials, who is an independent Qualified Person under the terms of NI 43-101 for REE deposits.

The scientific, technical and economic information related to the Woxna Graphite project has been reviewed and verified by Christopher Stinton of Zenito Limited, BSc (Hons), CEng MIMMM, an independent Qualified Person as defined by NI 43-101.

Martin S. Oczlon, PhD Geo, CEng MIMMM, a consultant to Leading Edge Materials and Qualified Person as defined in NI 43-101, has reviewed and verified the technical content related to the Bihor Sud project.

Financial Information

The report for three months ending July 31, 2022, is expected to be published on or about September 28, 2022.

Selected Financial Data

The following selected financial information is derived from the unaudited condensed consolidated interim financial statements of the Company prepared in accordance with IFRS.

Three Months Ended	Fiscal 2022		Fiscal 2021				Fiscal 2020	
	April 30, 2022 \$	January 31, 2022 \$	October 31, 2021 \$	July 31, 2021 \$	April 30, 2021 \$	January 31, 2021 \$	October 31, 2020 \$	July 31, 2020 \$
Operations								
Expenses	(433,894)	(1,874,407)	(460,907)	(600,531)	(483,495)	(664,674)	(882,556)	(420,959)
Other items	(356,226)	(219,942)	(94,018)	(477,057)	1,573,567	(3,603)	327,987	(21,567)
Comprehensive profit/(loss)	(790,120)	(2,094,349)	(554,925)	(1,077,588)	1,090,072	(668,277)	(554,569)	(442,526)
Basic Profit/(loss) per share	(0.00)	(0.01)	(0.01)	(0.01)	0.01	(0.00)	(0.01)	(0.00)
Diluted profit/(loss) per share	(0.00)	(0.01)	(0.01)	(0.01)	0.01	(0.00)	(0.01)	(0.00)
Financial Position								
Working capital	2,449,088	3,236,870	2,350,166	2,803,903	3,935,156	2,598,191	3,277,010	3,354,422
Total assets	25,053,451	30,597,341	28,756,406	28,455,148	29,133,933	28,759,753	27,218,052	27,832,104
Total non-current liabilities	(13,109,136)	(10,812,012)	(9,946,686)	(9,054,376)	(8,620,700)	(9,154,787)	(7,053,874)	(7,486,123)

Results of Operations

Three Months Ended April 30, 2022 Compared to Three Months Ended January 31, 2022

During the three months ended April 30, 2022 ("Q2 2022") the Company reported a net loss of \$790,120 compared to a reported net loss of \$2,094,349 for the three months ended January 31, 2022 ("Q1 2022"), a decrease in loss of \$1,304,229, the decrease in loss is mainly due to \$1,421,437 of share-based compensation related to granting of stock options under the Company's stock option plan during Q1 2022.

Three Months Ended April 30, 2022 Compared to Three Months Ended April 30, 2021

During the three months ended April 30, 2022 ("2022 period") the Company reported a net loss of \$790,120 compared to a net profit of \$1,090,072 for the three months ended April 30, 2021 ("2021 period"), an increase in loss of \$1,880,192, the increase in loss is mainly due to \$1,472,255 of gain on sale of property that was booked in April 2021 and loss on revaluation of marketable securities of \$357,800 booked in Q2 2022 compared to nil in Q2 2021.

Specific expenses of note during three months ended April 30, 2022 are as follows:

- (i) incurred \$98,373 (2021 - \$106,016) for directors and officer's compensation.
- (ii) incurred \$59,399 (2021 - \$61,402) for listing and regulatory fees with respect to ongoing fees for the Company's listing of its common shares on the Nasdaq First North and TSXV exchanges.
- (iii) incurred a total of \$45,552 (2021 - \$40,122) for finance and audit out of which the Company incurred \$11,740 (2021 - \$12,623) for accounting services of SKS Business Services along with \$12,928 (2021 - \$14,153) for bookkeeping and accounting services for subsidiary companies provided by other independent accountants;
- (iv) incurred exploration and evaluation expenses of \$25,393 (2021 - \$37,301);
- (v) incurred \$144,318 (2021 - \$163,177) for operations costs.

Interest income is primarily generated from cash held on deposit with the Bank of Montreal. During the three months ended April 30, 2022 the Company reported interest income of \$4,183 compared to \$3,695 during the three months' ended April 30, 2021.

During the three months ended April 30, 2022, the Company recorded a foreign exchange gain of \$4,483 due to changes in exchange rates, compared to a loss of \$77,045 during the three months ended April 30, 2021.

Financings

During the three months ended April 30, 2022, no options and warrants were exercised.

During the six months ended April 30, 2022, 200,000 options and 4,421,428 warrants were exercised for gross proceeds of \$45,000 and \$1,620,500 respectively.

3,200,000 share options were granted during six months ended April 30, 2022 at an exercise price of \$0.62.

Property, Plant and Equipment

	Vehicles \$	Equipment and Tools \$	Building \$	Manufacturing and Processing Facility \$	Mineral Property Acquisition and Development Costs \$	Total \$
Cost:						
Balance at October 31, 2020	16,094	287,018	344,139	7,567,878	8,123,928	16,339,057
Adjustment to site restoration	-	-	-	-	3,200,048	3,200,048
Balance at October 31, 2021	16,094	287,018	344,139	7,567,878	11,000,845	19,215,974
Adjustment to site restoration	-	-	-	-	(3,863,124)	(3,863,124)
Balance at April 30, 2022	<u>16,094</u>	<u>287,018</u>	<u>344,139</u>	<u>7,567,878</u>	<u>7,137,721</u>	<u>15,352,850</u>
Accumulated Depreciation:						
Balance at October 31, 2020	(2,606)	(261,717)	(115,515)	(3,910,218)	(5,000,000)	(9,290,056)
Depreciation	(1,071)	(2,011)	(30,623)	-	-	(33,705)
Balance at October 31, 2021	(3,677)	(263,728)	(146,138)	(3,910,218)	(5,000,000)	(9,323,761)
Depreciation	(400)	(751)	(11,440)	-	-	(12,591)
Balance at April 30, 2022	<u>(4,078)</u>	<u>(264,479)</u>	<u>(157,578)</u>	<u>(3,910,218)</u>	<u>(5,000,000)</u>	<u>(9,336,352)</u>
Carrying Value:						
Balance - October 31, 2021	<u>12,417</u>	<u>23,290</u>	<u>198,001</u>	<u>3,657,660</u>	<u>6,000,845</u>	<u>9,892,213</u>
Balance at April 30, 2022	<u>12,016</u>	<u>22,539</u>	<u>186,561</u>	<u>3,657,660</u>	<u>2,137,721</u>	<u>6,016,498</u>

Exploration and Evaluation Assets

	Graphite concessions \$	Anode Project \$	Bergby \$	Norra Karr \$	Total \$
Balance at October 31, 2020	14,787		425,551	15,892,517	16,332,855
Costs					
Geological	-	-	2,786	-	2,786
Permitting	-	-	10,227	25,006	35,233
Technical studies	-	-	-	270,830	270,830
Sale of property	-	-	(438,564)	-	(438,564)
	-	-	(425,551)	295,836	(129,715)
Balance at October 31, 2021	14,787	-	-	16,188,353	16,203,140
Costs					
Geological	-	-	-	8,435	8,435
Metallurgical	-	47,980	-	-	47,980
Permitting	-	-	-	77,910	58,176
Balance at April 30, 2022	14,787	47,980	-	16,274,698	16,337,465

Financial Condition / Capital Resources

During the three months ended April 30, 2022, the Company recorded a net loss of \$790,120 and, as of April 30, 2022 the Company had an accumulated deficit of \$43,988,739 and working capital of \$2,396,484. The Company is maintaining its Woxna Graphite Mine on a “production-ready” basis to minimize costs and is conducting ongoing research and development to produce higher value specialty products. The Company is also evaluating a potential restart of production at the Woxna Graphite Mine. The Company anticipates that it has sufficient funding to meet anticipated levels of corporate administration and overheads for the ensuing twelve months however, it will need additional capital to provide working capital and recommence operations at the Woxna Graphite Mine and/or establish a production facility for the Anode Project, to fund future development of the Norra Karr Property and complete exploration activities in Romania. There is no assurance such additional capital will be available to the Company on acceptable terms or at all. In the longer term the recoverability of the carrying value of the Company’s long-lived assets is dependent upon the Company’s ability to preserve its interest in the underlying mineral property interests, the discovery of economically recoverable reserves, the achievement of profitable operations and the ability of the Company to obtain financing to support its ongoing exploration programs and mining operations. See also “COVID-19”.

Off-Balance Sheet Arrangements

The Company has no off-balance sheet arrangements.

Proposed Transactions

The company has no proposed transactions.

Critical Accounting Estimates

The preparation of financial statements in conformity with IFRS requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenditures during the reporting period. Examples of significant estimates made by management include estimating the fair values of financial instruments, valuation allowances for deferred income tax assets and assumptions used for share-based compensation. Actual results may differ from those estimates.

A detailed summary of all the Company's critical accounting estimates is included in Note 3 to the October 31, 2021 audited annual consolidated financial statements.

During the three months ended April 30, 2022 for computation of fair value of the provision for site restoration for the Kringelgruvan concession the company has changed its inflation estimate from CPIF (Consumer Price Index with a Fixed interest rate) to the Swedish Riksbank's target inflation rate.

Changes in Accounting Policies

There is no change in accounting policy during the year ended October 31, 2021.

A detailed summary of all the Company's significant accounting policies and accounting standards and interpretations issued but not yet effective, is included in Note 3 to the October 31, 2021 audited annual consolidated financial statements.

Related Party Transactions and Balances

Key management personnel include those persons having authority and responsibility for planning, directing and controlling the activities of the Company as a whole. The Company has determined that key management personnel consist of members of the Company's current and former Board of Directors and its executive officers.

(a) During the six months ended April 30, 2022 and 2021 the following compensation was incurred:

	2022	2021
	\$	\$
Mr. Filip Kozlowski, CEO and former director ⁽¹⁾	137,106	156,512
Mr. Nick DeMare, former CFO and Corporate Secretary ⁽²⁾	-	10,000
Mr. Lars-Eric Johansson, Chairman and director ⁽¹⁾	15,000	15,000
Mr. Eric Krafft, director ⁽¹⁾	15,000	15,000
Mr. Daniel Major, director ⁽¹⁾	15,000	15,000
Mr. Sanjay Swarup, CFO ⁽³⁾	15,933	4,168
	<u>198,039</u>	<u>215,680</u>

(1) Lars-Eric Johansson, Daniel Major and Eric Krafft were appointed as new Directors on May 4, 2020. Concurrently, a change in senior management was announced with the appointment of Mr. Filip Kozlowski as Chief Executive Officer ("CEO") who had resigned as a Director on the same date.

(2) Mr. DeMare, the Company's ex CFO, was appointed as Corporate Secretary on April 30, 2018.

(3) Mr. Sanjay Swarup of SKS Business Services has been appointed as CFO from March 1, 2021.

(b) During the six months ended April 30, 2022, the Company incurred \$23,571 (2021 - \$20,503) for accounting services of SKS Business Services.

Outstanding Share Data

The Company's authorized share capital is unlimited common shares without par value. As at June 22, 2022, there were 152,523,533 issued and outstanding common shares, 49,079,286 warrants outstanding with exercise prices ranging from \$0.10 to \$0.20 per share and 8,070,000 share options outstanding with exercise prices ranging from \$0.155 to \$0.64 per share.