

## PRESS RELEASE

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### CRITICAL ELEMENTS LITHIUM CONTINUES TO EXPAND MAJOR DISCOVERY AT ROSE WEST WITH ADDITIONAL MULTIPLE WIDE LITHIUM-RICH INTERCEPTS

#### HIGHLIGHTS:

- **1.39% Li<sub>2</sub>O and 157 ppm Ta<sub>2</sub>O<sub>5</sub> over 35.30 m**, including **2.33% Li<sub>2</sub>O and 152 ppm Ta<sub>2</sub>O<sub>5</sub> over 9.00 m** in hole RD-24-25A
- **1.29% Li<sub>2</sub>O and 121 ppm Ta<sub>2</sub>O<sub>5</sub> over 31.50 m**, including **1.69% Li<sub>2</sub>O and 127 ppm Ta<sub>2</sub>O<sub>5</sub> over 13.50 m** in hole RD-24-24
- **1.22% Li<sub>2</sub>O and 250 ppm Ta<sub>2</sub>O<sub>5</sub> over 20.50 m**, including **1.60% Li<sub>2</sub>O and 181 ppm Ta<sub>2</sub>O<sub>5</sub> over 15.00 m** in hole RD-24-17
- **1.27% Li<sub>2</sub>O and 192 ppm Ta<sub>2</sub>O<sub>5</sub> over 18.65 m** in hole RD-24-27
- **1.59% Li<sub>2</sub>O and 127 ppm Ta<sub>2</sub>O<sub>5</sub> over 13.80 m** in hole RD-24-18
- **1.75% Li<sub>2</sub>O and 201 ppm Ta<sub>2</sub>O<sub>5</sub> over 10.10 m** in hole RD-24-19

**April 22<sup>th</sup>, 2024** - MONTRÉAL, QUÉBEC – Critical Elements Lithium Corporation (TSX-V: CRE) (US OTCQX: CRECF) (FSE: F12) ("**Critical Elements**" or the "**Corporation**") is pleased to announce the most recent results from the winter 31-hole, 3,670-meter drill program on its 100% owned Rose West Discovery with multiple wide intersections of lithium-rich pegmatites.

The Rose West Discovery ("**Rose West**") is situated within the Rose Lithium-Tantalum and Rose South property blocks (**Figure 1**), which constitute 395 km<sup>2</sup>, or only 38% of the total 1,050 km<sup>2</sup> in the Corporation's highly prospective exploration portfolio in Québec.

The 2024 winter drill campaign successfully completed 3,670 meters of drilling in 31 holes on the spodumene-bearing pegmatite showings discovered during the 2023 summer prospecting campaign, herein referred to as Rose West. Drilling results to date have demonstrated the continuity of a mineralized pegmatite body, which thus far extends over 450 m strike, 370 m down dip and to a vertical depth of 140 m. In the west, the body is comprised of multiple near surface mineralized pegmatites that range up to an apparent thickness of **12.40 m** individually. These bodies appear to coalesce into a more substantial spodumene-bearing pegmatite in the east with an apparent width of **up to 40.40 m**. The near surface pegmatites appear to strike northwesterly with a gentle dip of 15°, while the thicker pegmatite appears to strike easterly with a near-horizontal dip of 13°. The body is still open in all directions, while the greatest exploration potential appears to be to the east.

New assay results from the drill program have been received for fourteen new drillholes. Several of the new drillhole results returned wide high grade lithium assays, as highlighted:

- **1.39% Li<sub>2</sub>O and 157 ppm Ta<sub>2</sub>O<sub>5</sub> over 35.30 m**, including **2.33% Li<sub>2</sub>O and 152 ppm Ta<sub>2</sub>O<sub>5</sub> over 9.00 m** in hole RD-24-25A
- **1.29% Li<sub>2</sub>O and 121 ppm Ta<sub>2</sub>O<sub>5</sub> over 31.50 m**, including **1.69% Li<sub>2</sub>O and 127 ppm Ta<sub>2</sub>O<sub>5</sub> over 13.50 m** in hole RD-24-24
- **1.22% Li<sub>2</sub>O and 250 ppm Ta<sub>2</sub>O<sub>5</sub> over 20.50 m**, including **1.60% Li<sub>2</sub>O and 181 ppm Ta<sub>2</sub>O<sub>5</sub> over 15.00 m** in hole RD-24-17
- **1.27% Li<sub>2</sub>O and 192 ppm Ta<sub>2</sub>O<sub>5</sub> over 18.65 m** in hole RD-24-27
- **1.59% Li<sub>2</sub>O and 127 ppm Ta<sub>2</sub>O<sub>5</sub> over 13.80 m** in hole RD-24-18
- **1.75% Li<sub>2</sub>O and 201 ppm Ta<sub>2</sub>O<sub>5</sub> over 10.10 m** in hole RD-24-19

A summary of the new assay results is presented in **Table 1** and in **Figures 2 to 7**. A summary of the previously announced assay results is presented in **Table 2** and in **Figures 2 to 7**.

“With the complete results of the Rose West winter program, we recognize the opportunity to add significantly to the Rose Project’s resource inventory and, potentially, augment its mine life and already robust economic appeal,” commented Chair of the Board Eric Zaunscherb. “As a reminder, the Rose Lithium-Tantalum Project Feasibility Study published in August 2023 ([see press release dated August 23, 2023](#)) returned an after-tax NPV8% of US\$2.2B and an after-tax IRR of 65.7%. The next step is a second-round drill program, currently being planned, followed by an initial mineral resource estimate if warranted. In the interim, management sees no reduction in urgency on the part of lithium end-users to see quality spodumene concentrate sourced from a world-class jurisdiction flow into their supply chains. Québec, with its clean grid and exceptional regulatory standards, is well-regarded globally.”

**Table 1: New results from Rose West Discovery 2024 winter drill program**

Drillhole	UTM NAD 83 ZN18		Length (m)	Azimuth (°)	Dip (°)	From (m)	To (m)	Interval* (m)	Li <sub>2</sub> O (%)	Ta <sub>2</sub> O <sub>5</sub> ppm (g/t)	Lithology
	Easting	Northing									
<b>RD-24-03</b>	411105	5763898	114.00	145	-50	21.90	24.40	2.50	0.99	142	Pegmatite
						26.35	27.60	1.25	<b>1.07</b>	153	Pegmatite
						34.80	37.50	2.70	<b>1.26</b>	72	Pegmatite
						41.60	43.35	1.75	0.05	<b>343</b>	Pegmatite
						103.50	106.50	3.00	0.03	65	Pegmatite
<b>RD-24-09</b>	411080	5763759	60.00	315	-70	4.00	8.00	4.00	0.78	<b>285</b>	Pegmatite
<b>Including</b>						5.50	7.00	1.50	<b>1.57</b>	<b>218</b>	Pegmatite
						23.60	31.70	8.10	<b>1.70</b>	<b>357</b>	Pegmatite
<b>Including</b>						23.60	29.50	5.90	<b>2.03</b>	<b>403</b>	Pegmatite
<b>RD-24-11</b>	411139	5763690	66.00	315	-70	3.60	7.30	3.70	<b>2.18</b>	109	Pegmatite
<b>RD-24-13</b>	411302	5763798	97.00	290	-70	8.00	9.50	1.50	0.01	<b>311</b>	Pegmatite
						19.60	20.50	0.90	0.01	<b>530</b>	Pegmatite
						55.10	55.80	0.70	0.46	<b>201</b>	Aplite
						56.40	68.80	<b>12.40</b>	<b>1.33</b>	187	Pegmatite
<b>Including</b>						63.90	65.40	1.50	<b>2.53</b>	<b>506</b>	Pegmatite
<b>RD-24-16**</b>	411384	5763852	113.5	300	-70	52.60	55.50	2.90	0.01	159	Pegmatite
						111.65	113.5	1.85	<b>1.14</b>	110	Pegmatite
<b>RD-24-17</b>	411320	5763930	159.00	300	-70	35.95	36.70	0.75	0.02	<b>502</b>	Aplite
						76.70	79.70	3.00	<b>1.16</b>	156	Pegmatite
						96.00	105.00	9.00	<b>1.16</b>	172	Pegmatite
<b>Including</b>						97.50	105.00	7.50	<b>1.29</b>	182	Pegmatite
						127.00	147.50	<b>20.50</b>	<b>1.22</b>	<b>250</b>	Pegmatite
<b>Including</b>						127.00	142.00	<b>15.00</b>	<b>1.60</b>	181	Pegmatite
<b>Including</b>						142.00	147.50	<b>5.50</b>	0.18	<b>437</b>	Pegmatite
<b>RD-24-18</b>	411269	5764015	207.00	300	-70	67.40	81.20	<b>13.80</b>	<b>1.59</b>	127	Pegmatite
						107.20	107.80	0.60	0.33	146	Pegmatite
						110.00	111.40	1.40	0.16	<b>584</b>	Pegmatite
						118.90	124.60	<b>5.70</b>	<b>1.59</b>	145	Pegmatite
<b>including</b>						120.40	121.90	1.50	<b>2.92</b>	52	Pegmatite
<b>RD-24-19</b>	411347	5764073	186.00	245	-70	71.40	76.60	<b>5.20</b>	<b>1.91</b>	<b>242</b>	Pegmatite
						80.70	81.90	1.20	0.14	<b>244</b>	Aplite
						91.00	101.10	<b>10.10</b>	<b>1.75</b>	<b>201</b>	Pegmatite

Drillhole	UTM NAD 83 ZN18		Length (m)	Azimuth (°)	Dip (°)	From (m)	To (m)	Interval* (m)	Li <sub>2</sub> O (%)	Ta <sub>2</sub> O <sub>5</sub> ppm (g/t)	Lithology
	Easting	Northing									
						112.80	120.00	7.20	0.91	<b>333</b>	Pegmatite
<b>including</b>						114.00	118.50	4.50	<b>1.32</b>	114	Pegmatite
<b>including</b>						118.50	120.00	1.50	0.05	<b>880</b>	Pegmatite
						129.80	135.40	<b>5.60</b>	0.03	<b>266</b>	Aplite
						136.85	137.60	0.75	0.03	<b>419</b>	Aplite
<b>RD-24-24</b>	411547	5763965	147.00	235	-70	104.50	136.00	<b>31.50</b>	<b>1.29</b>	121	Pegmatite
<b>including</b>						112.00	115.00	3.00	<b>1.88</b>	111	Pegmatite
<b>including</b>						122.50	136.00	<b>13.50</b>	<b>1.69</b>	127	Pegmatite
<b>RD-24-25**</b>	411490	5764049	84.60	245	-70	73.70	84.60	<b>10.90</b>	<b>1.75</b>	<b>305</b>	Pegmatite
<b>RD-24-25A</b>	411489	5764049	168.00	245	-70	72.30	107.60	<b>35.30</b>	<b>1.39</b>	157	Pegmatite
<b>including</b>						79.00	88.00	<b>9.00</b>	<b>2.33</b>	152	Pegmatite
<b>including</b>						91.00	98.50	<b>7.50</b>	<b>1.84</b>	151	Pegmatite
						155.20	157.60	2.40	0.01	<b>275</b>	Pegmatite
<b>RD-24-26</b>	411431	5764131	117.00	245	-70	82.00	103.80	<b>21.80</b>	0.62	164	Pegmatite
<b>including</b>						85.00	89.50	4.50	<b>1.28</b>	126	Pegmatite
<b>RD-24-27</b>	411519	5764187	111.00	245	-70	84.20	102.85	<b>18.65</b>	<b>1.27</b>	192	Pegmatite
						104.90	106.10	1.20	<b>1.89</b>	186	Pegmatite
<b>RD-24-28</b>	411569	5764115	135.00	235	-70	56.50	57.30	0.80	0.01	125	Pegmatite
						65.00	65.50	0.50	0.01	122	Pegmatite
						68.70	69.30	0.60	0.01	148	Pegmatite
						71.70	72.50	0.80	<b>1.91</b>	59	Pegmatite
						83.10	114.50	<b>31.40</b>	0.56	163	Pegmatite
<b>including</b>						99.00	105.00	<b>6.00</b>	<b>1.81</b>	188	Pegmatite
<b>including</b>						109.50	114.00	4.50	<b>1.17</b>	188	Pegmatite
						121.70	126.20	4.50	0.80	189	Pegmatite
						130.40	131.10	0.70	0.02	103	Aplite

\* Core length; the true thickness is between 80 to 95% of the core length.

\*\* Hole abandoned before reaching target length.

**Table 2: Previously reported results from Rose West Discovery 2024 winter drill program**

Drillhole	UTM NAD 83 ZN18		Length (m)	Azimuth (°)	Dip (°)	From (m)	To (m)	Interval* (m)	Li <sub>2</sub> O (%)	Ta <sub>2</sub> O <sub>5</sub> ppm (g/t)	Lithology
	Easting	Northing									
<b>RD-24-01</b>	411119	5763973	153.00	235	-50	6.80	13.70	<b>6.90</b>	<b>1.61</b>	135	Pegmatite
<b>including</b>						7.70	12.00	4.30	<b>2.17</b>	77	Pegmatite
						24.00	25.10	1.10	0.02	<b>571</b>	Aplite
						95.10	102.80	<b>7.70</b>	0.03	<b>374</b>	Pegmatite
<b>RD-24-02</b>	411104	5763903	156.00	325	-50	10.60	19.25	<b>8.65</b>	<b>1.00</b>	<b>285</b>	Pegmatite
<b>including</b>						10.60	15.00	4.40	<b>1.34</b>	<b>376</b>	Pegmatite
						100.80	102.20	1.40	0.04	<b>394</b>	Aplite
						103.70	104.20	0.50	0.04	<b>339</b>	Aplite
						126.30	128.50	2.20	0.04	145	Pegmatite
						130.25	133.25	3.00	0.03	153	Pegmatite
						145.20	147.10	1.90	0.03	<b>239</b>	Pegmatite
<b>RD-24-04</b>	411145	5763933	111.00	325	-70	16.40	20.20	3.80	<b>1.11</b>	163	Pegmatite
<b>including</b>						18.00	19.20	1.20	<b>2.12</b>	55	Pegmatite
						67.60	72.60	<b>5.00</b>	0.94	<b>256</b>	Pegmatite
<b>including</b>						67.60	69.00	1.40	<b>1.92</b>	177	Pegmatite
						103.80	108.00	4.20	<b>2.24</b>	170	Pegmatite
<b>RD-24-05</b>	411188	5763963	51.00	315	-70	24.30	27.25	2.95	0.83	<b>506</b>	Pegmatite
<b>including</b>						24.30	25.65	1.35	<b>1.41</b>	<b>397</b>	Pegmatite
<b>including</b>						26.55	27.25	0.70	0.21	<b>1066</b>	Pegmatite
<b>RD-24-06</b>	411244	5763876	69.00	315	-70	26.60	28.70	2.10	0.14	<b>458</b>	Pegmatite
						46.60	49.80	3.20	<b>1.08</b>	<b>273</b>	Pegmatite
<b>including</b>						48.00	48.80	0.80	<b>2.41</b>	<b>278</b>	Pegmatite
						56.60	63.30	<b>6.70</b>	<b>2.16</b>	81	Pegmatite
<b>RD-24-07</b>	411163	5763819	66.00	315	-70	3.60	4.30	0.70	0.04	<b>2009</b>	Aplite
						17.80	30.00	<b>12.20</b>	<b>1.66</b>	180	Pegmatite
<b>including</b>						22.50	30.00	<b>7.50</b>	<b>2.34</b>	153	Pegmatite
						50.90	52.40	1.50	0.02	<b>423</b>	Pegmatite
						54.30	56.20	1.90	0.10	<b>426</b>	Pegmatite
<b>RD-24-08</b>	411122	5763795	57.00	315	-70	16.90	25.90	<b>9.00</b>	<b>1.55</b>	105	Pegmatite
<b>including</b>						19.50	24.00	4.50	<b>2.41</b>	90	Pegmatite
						37.95	40.00	2.05	0.03	<b>296</b>	Pegmatite
<b>RD-24-10</b>	411106	5763725	63.00	315	-70	3.55	10.50	<b>6.95</b>	<b>2.21</b>	111	Pegmatite
<b>including</b>						5.00	9.00	4.00	<b>2.76</b>	104	Pegmatite
<b>RD-24-12</b>	411176	5763719	102.00	315	-70	14.45	20.00	<b>5.55</b>	<b>1.75</b>	<b>212</b>	Pegmatite
<b>including</b>						17.45	18.95	1.50	<b>2.67</b>	133	Pegmatite
<b>RD-24-14</b>	411357	5763709	117.00	290	-70	4.75	5.50	0.75	0.05	<b>365</b>	Aplite
						22.90	23.70	0.80	0.07	143	Aplite
						36.00	40.40	4.40	0.08	87	Aplite
						43.80	45.80	2.00	0.93	<b>265</b>	Pegmatite
						55.30	57.00	1.70	<b>1.02</b>	<b>294</b>	Pegmatite
<b>RD-24-15</b>	411438	5763775	114.00	300	-70	54.50	57.40	2.90	0.59	60	Pegmatite
						96.40	99.20	2.80	<b>2.08</b>	<b>221</b>	Pegmatite

Drillhole	UTM NAD 83 ZN18		Length (m)	Azimuth (°)	Dip (°)	From (m)	To (m)	Interval*	Li <sub>2</sub> O (%)	Ta <sub>2</sub> O <sub>5</sub> ppm (g/t)	Lithology
	Easting	Northing									
<b>RD-24-16A</b>	411385	5763851	144.00	300	-70	53.70	56.70	3.00	0.01	162	Pegmatite
						109.60	112.25	2.65	<b>1.36</b>	77	Pegmatite
						118.25	143.20	<b>24.95</b>	<b>1.43</b>	178	Pegmatite
<b>including</b>						119.75	133.25	<b>13.50</b>	<b>1.91</b>	145	Pegmatite
<b>including</b>						139.25	141.60	2.35	<b>2.22</b>	167	Pegmatite
<b>RD-24-20</b>	411408	5763990	177.00	245	-70	82.10	122.50	<b>40.40</b>	<b>1.31</b>	<b>235</b>	Pegmatite
<b>including</b>						82.10	104.60	<b>22.50</b>	<b>1.64</b>	<b>219</b>	Pegmatite
<b>including</b>						112.10	118.10	<b>6.00</b>	<b>2.12</b>	73	Pegmatite
						141.30	144.30	3.00	0.02	<b>339</b>	Pegmatite
<b>RD-24-21</b>	411469	5763910	177.00	245	-70	120.40	144.70	<b>24.30</b>	<b>1.16</b>	145	Pegmatite
<b>including</b>						120.40	130.90	<b>10.50</b>	<b>1.41</b>	159	Pegmatite
<b>including</b>						127.90	130.90	3.00	<b>2.27</b>	137	Pegmatite
<b>including</b>						133.90	142.90	<b>9.00</b>	<b>1.35</b>	107	Pegmatite
<b>including</b>						133.90	136.90	3.00	<b>2.28</b>	183	Pegmatite
<b>RD-24-22</b>	411524	5763824	177.00	245	-70	128.20	159.80	<b>31.60</b>	<b>1.30</b>	142	Pegmatite
<b>including</b>						129.70	155.20	<b>25.50</b>	<b>1.59</b>	130	Pegmatite
<b>RD-24-23</b>	411605	5763887	18.00	245	-70				**		
<b>RD-24-23A</b>	411606	5763887	153.00	245	-70	122.60	142.90	<b>20.30</b>	<b>2.22</b>	95	Pegmatite
<b>including</b>						125.60	136.10	<b>10.50</b>	<b>2.78</b>	92	Pegmatite

\* Core length; the true thickness is between 80 to 95% of the core length.

\*\* Hole abandoned before reaching target length.

Figure 1: Location map of the Rose West Discovery.

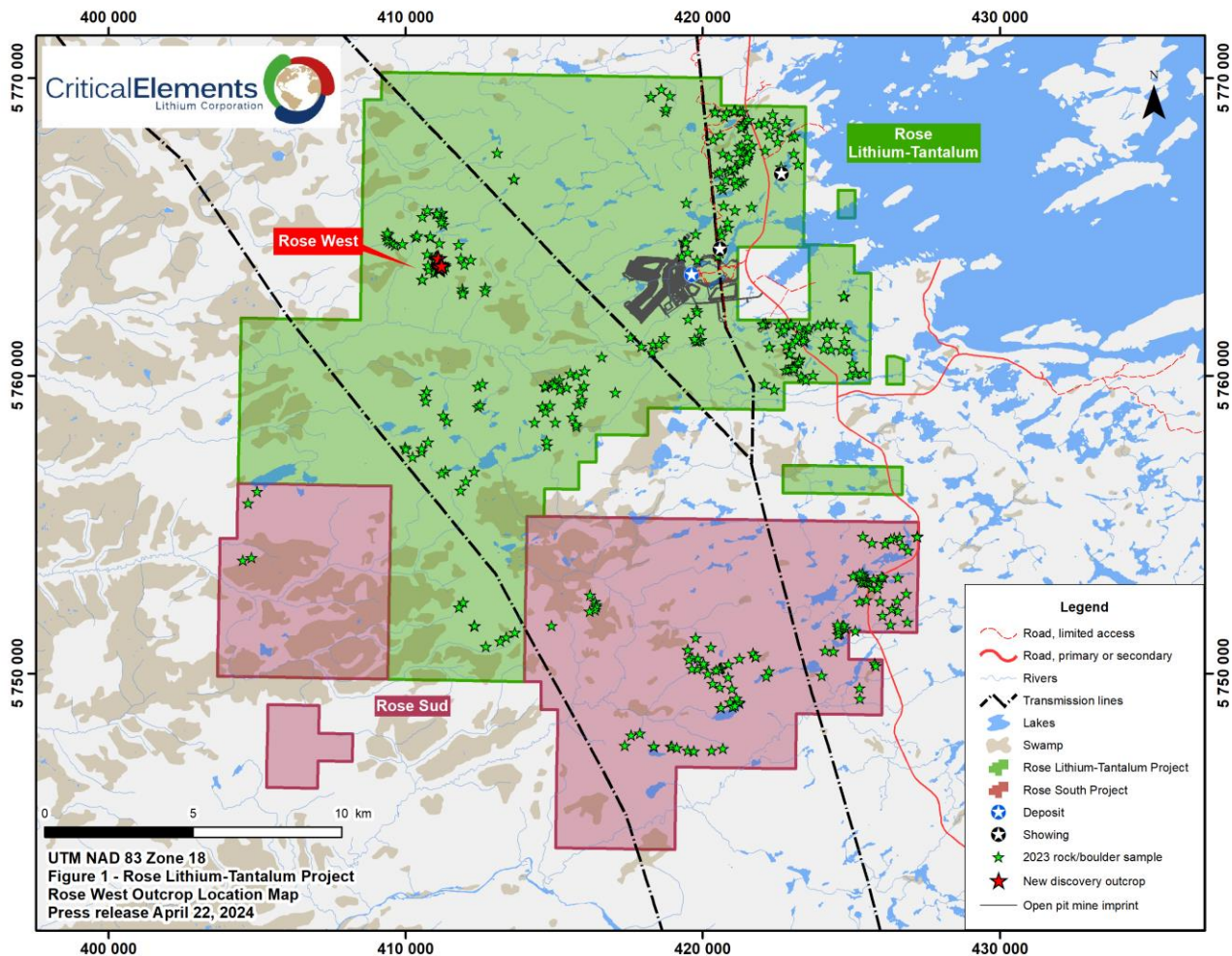


Figure 2: Location map of drillholes from the winter 2024 campaign.

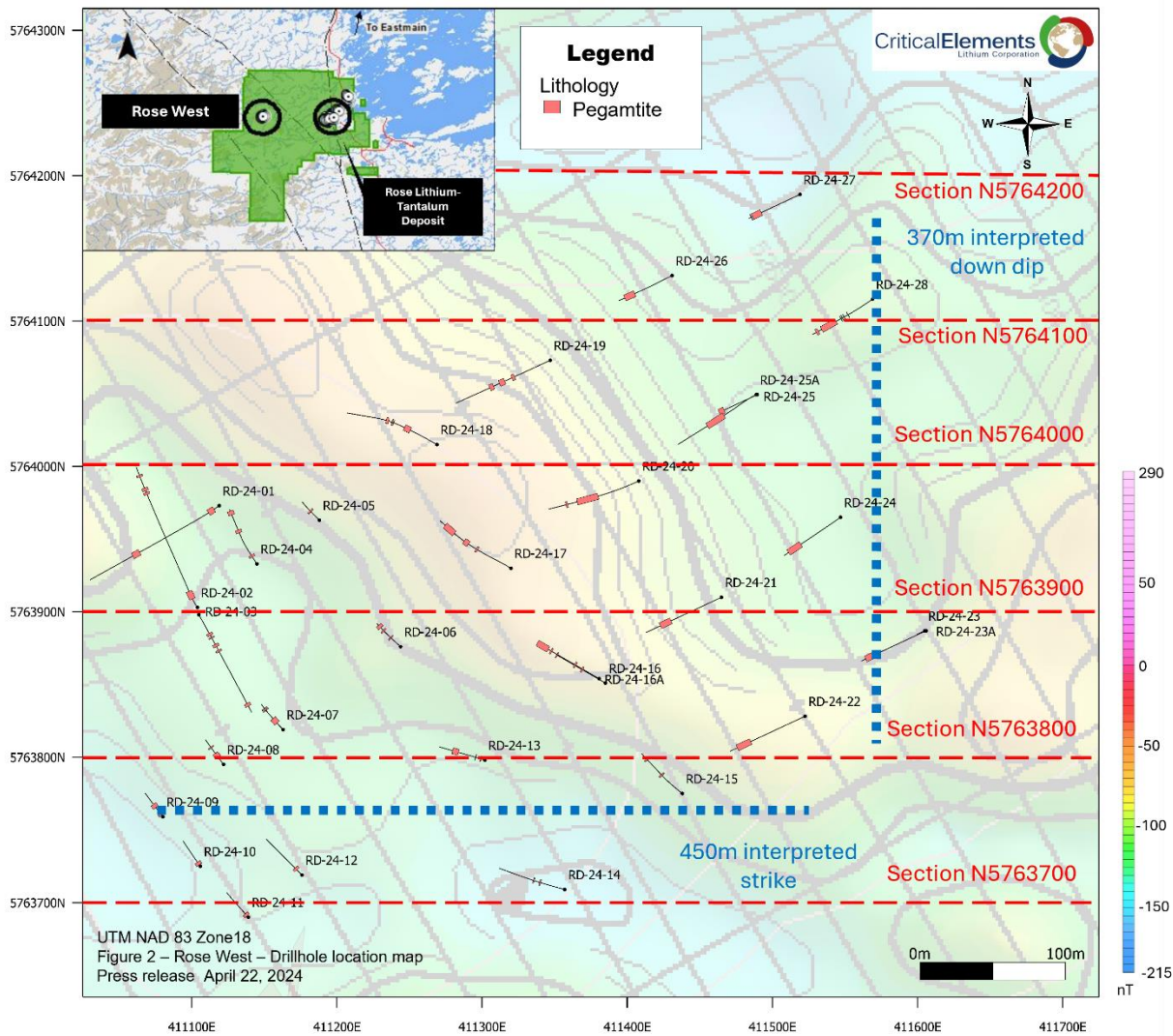


Figure 3: Cross section N5764200 view to the North.

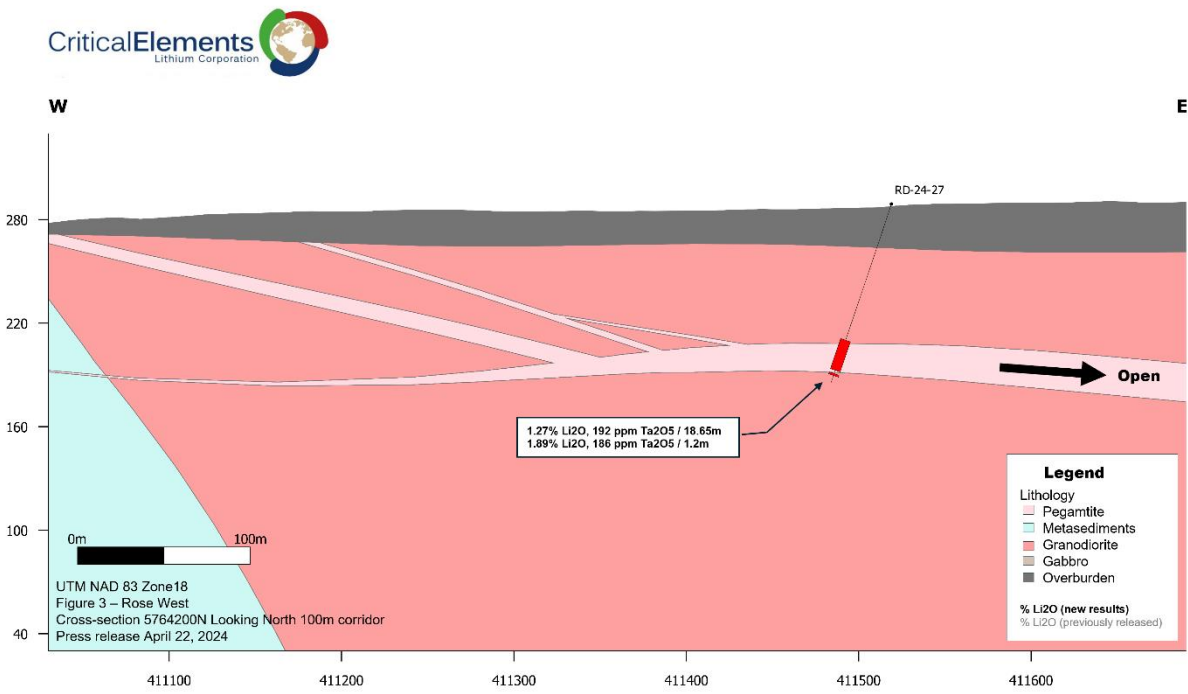


Figure 4: Cross section N5764100 view to the North.

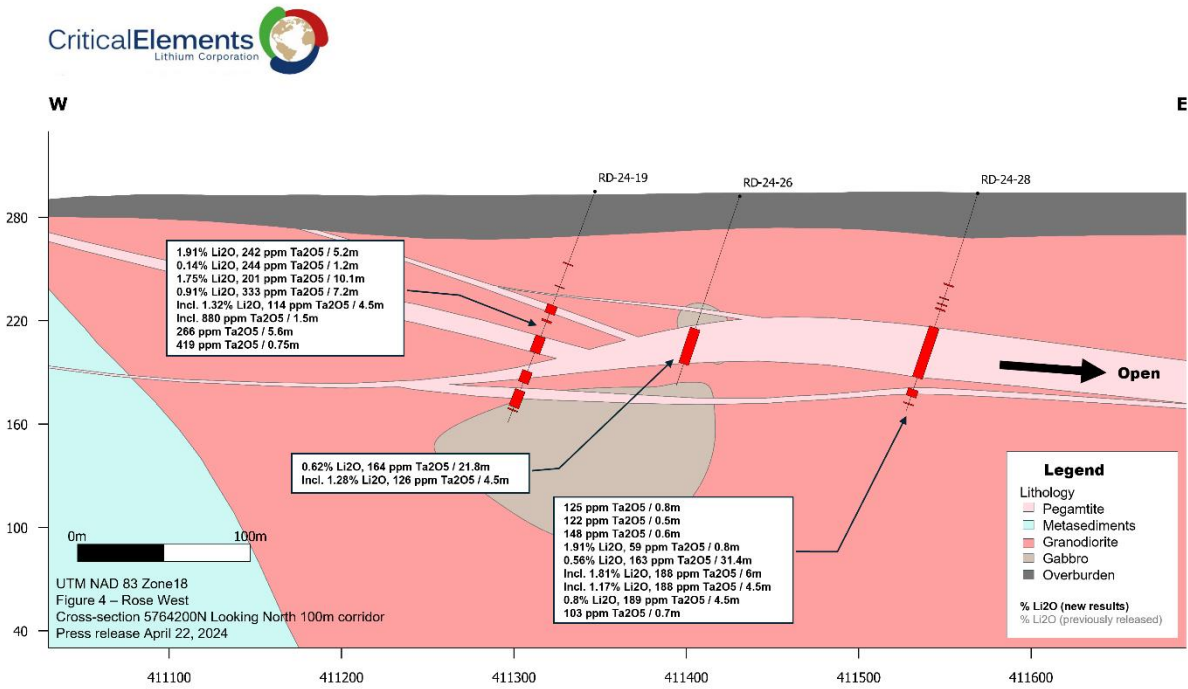




Figure 5: Cross section N5764000 view to the North.

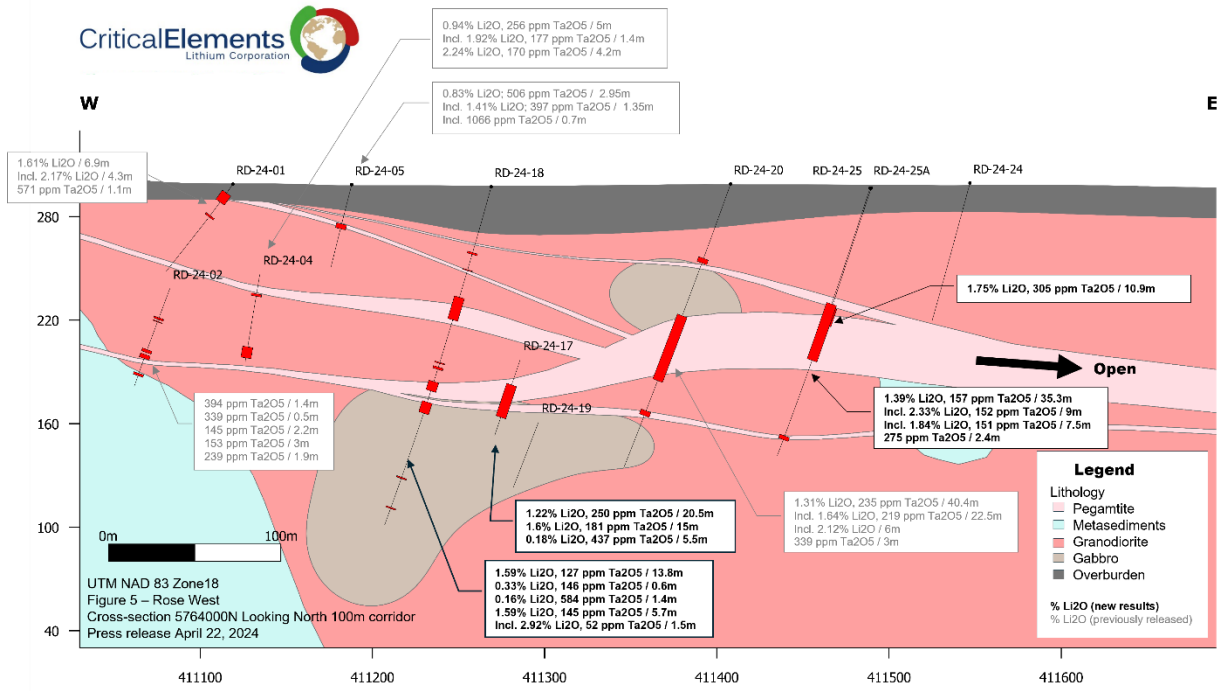


Figure 6: Cross section N5763900 view to the North.

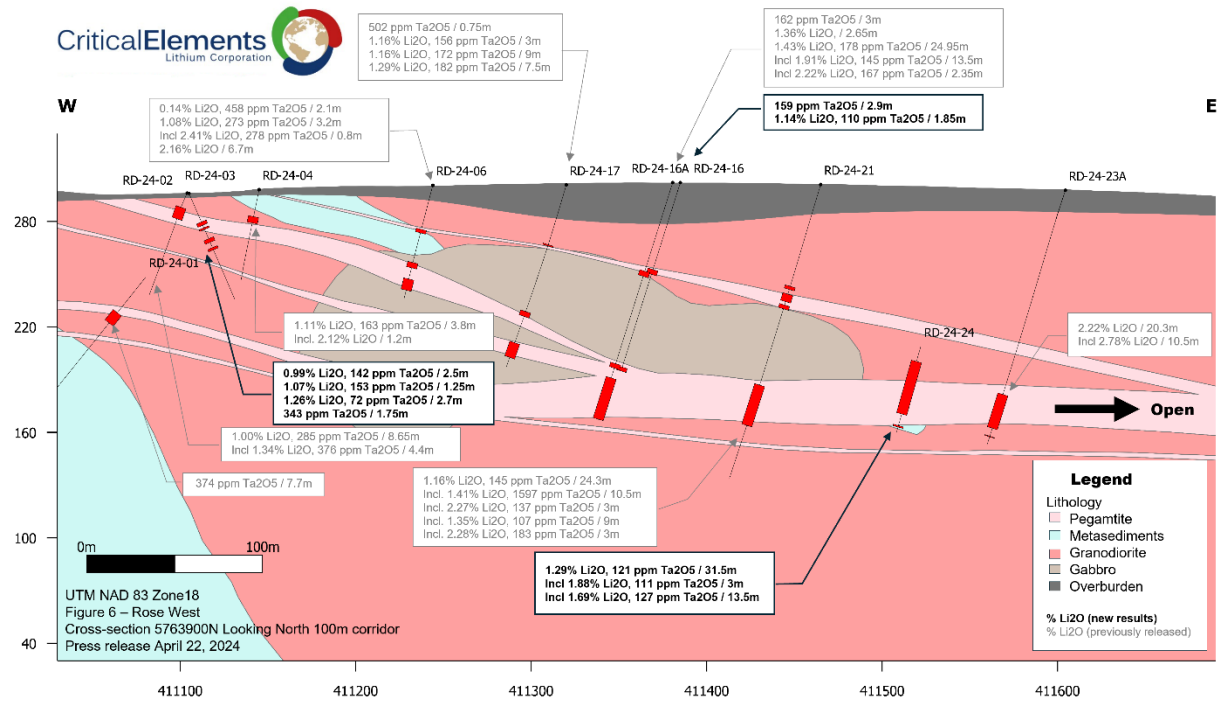


Figure 7: Cross section N5763800 view to the North.

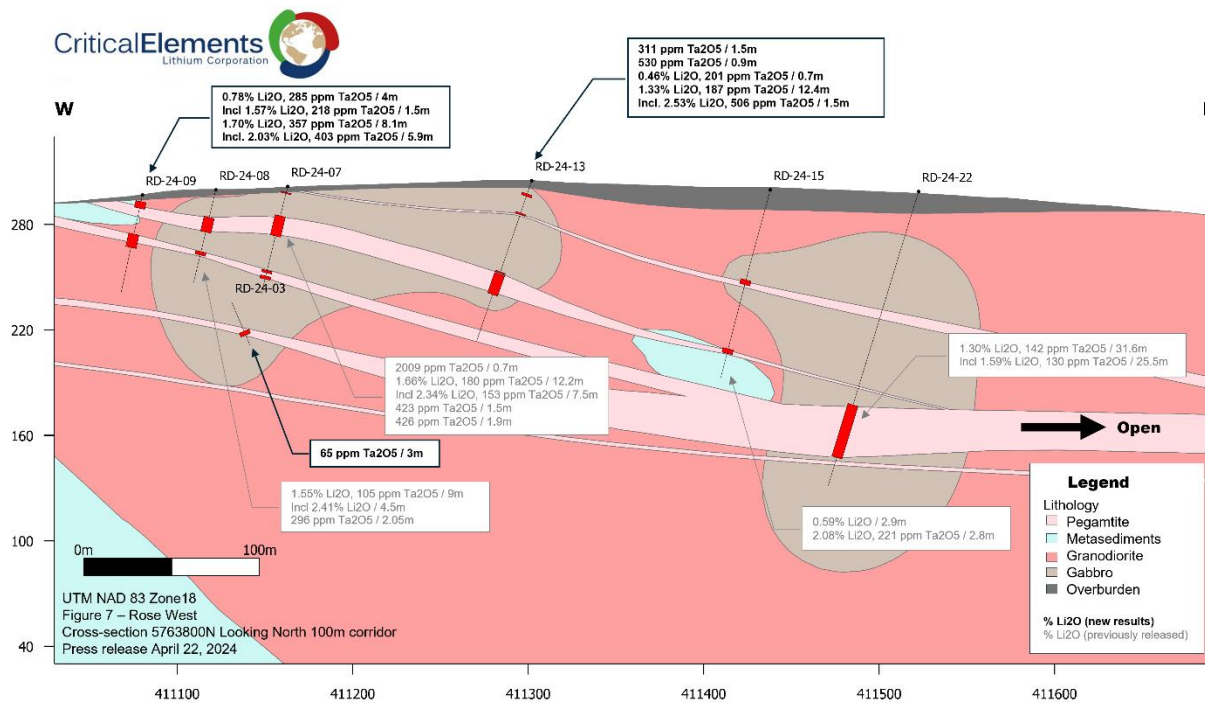
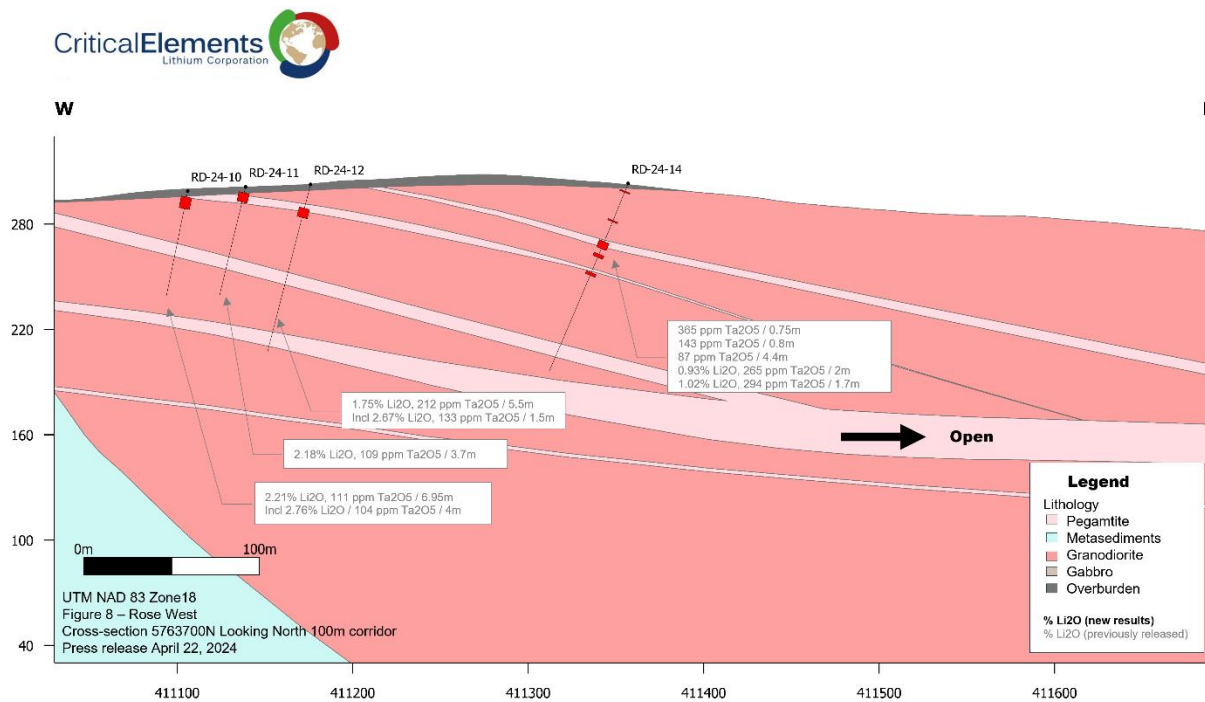


Figure 8: Cross section N5763700 view to the North.



## Quality assurance/quality control

Quality assurance and quality control procedures have been implemented to ensure best practices in sampling and analysis of the drill core samples. Standards, duplicate and blanks were regularly inserted into the sample stream. The drill core samples were delivered, in secure tagged bags to the ALS Minerals laboratory facility in Val-d'Or, Québec. The samples are weighed and identified prior to sample preparation. The samples are crushed to 70% minus 2 mm, then separated and pulverized to 85% passing 75 µm. All samples are analyzed using sodium peroxide fusion ME-MS-89L, with full analysis for 52 elements. Value over 25,000 ppm Li were re-assays using Li-ICP-82b and value over 2,500 ppm Ta<sub>2</sub>O<sub>5</sub> were re-assays using Ta-XRF10.

## Qualified persons

Sebastien Perreault, P. Eng., is the qualified persons that have reviewed and approved the technical contents of this news release on behalf of the Corporation.

## About Critical Elements Lithium Corporation

Critical Elements aspires to become a large, responsible supplier of lithium to the flourishing electric vehicle and energy storage system industries. To this end, Critical Elements is advancing the wholly owned, high-purity Rose Lithium-Tantalum project in Québec, the Corporation's first lithium project to be advanced within a land portfolio of over 1,050 km<sup>2</sup>. On August 29, 2023, the Corporation announced results of a new Feasibility Study on Rose for the production of spodumene concentrate. The after-tax internal rate of return for the Project is estimated at 65.7%, with an estimated after-tax net present value of US\$2.2B at an 8% discount rate. In the Corporation's view, Québec is strategically well-positioned for US and EU markets and boasts good infrastructure including a low-cost, low-carbon power grid featuring 94% hydroelectricity. The project has received approval from the Federal Minister of Environment and Climate Change on the recommendation of the Joint Assessment Committee, comprised of representatives from the Impact Assessment Agency of Canada and the Cree Nation Government, received the Certificate of Authorization pursuant to section 164 of Québec's *Environment Quality Act* from the Québec Minister of the Environment, the Fight against Climate Change, Wildlife and Parks, and the project mining lease from the Québec Minister of Natural Resources and Forests under the Québec *Mining Act*.

## For further information, please contact:

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## Cautionary statement concerning forward-looking statements.

This news release contains "forward-looking information" within the meaning of Canadian Securities legislation. Generally, forward-looking information can be identified by the use of forward-looking terminology such as "scheduled", "anticipates", "expects" or "does not expect", "is expected", "scheduled", "targeted", or "believes", or variations of such words and phrases or statements that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur" or "be achieved". Forward-looking information contained herein include, without limitation, statements relating to the results and completion of the 2024 exploration program and its related objectives. Forward-looking information is based on assumptions management believes to be reasonable at the time such statements are made. There can be no assurance that such statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on forward-looking information.

Although Critical Elements has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. Factors that may cause actual results to differ materially from expected results described in forward-looking information include, but are not limited to: final and complete results of the Corporation's 2023-2024 exploration program and effects on the Corporation's stated objectives, as well as those risk factors set out

in the Corporation's Management Discussion and Analysis for its most recent quarter ended November 30, 2023 and other disclosure documents available under the Corporation's SEDAR profile. Forward-looking information contained herein is made as of the date of this news release and Critical Elements disclaims any obligation to update any forward-looking information, whether as a result of new information, future events or results or otherwise, except as required by applicable securities laws.