# PIEDMONT INCREASES MINERAL RESOURCES WITH COMPLETION OF PHASE 5 INFILL DRILLING

## *Inaugural Mineral Resources reported under new U.S. S-K 1300 Standards*

- Carolina Lithium Project total Mineral Resources increase to 44.2 Mt @ 1.08% $Li_2O$
- Indicated Mineral Resources increased 101% to 28.2 Mt @ 1.11% $Li_2O$ for the Project
- DFS completion for the integrated 30,000 t/y LiOH Carolina Lithium Project expected within Q4 2021

**Piedmont Lithium Inc. ("Piedmont" or "Company")** is pleased to announce an updated global Mineral Resource estimate ("MRE") (Table 1) for the Company's flagship Carolina Lithium Project in North Carolina, USA. The MRE includes updates for lithium and industrial mineral products. The total MRE for the project is 44.2 Mt @ 1.08% $Li_2O$ (Figure 1), with 64% of the total MRE classified in the Indicated category. The Mineral Resource estimate reported in accordance with the U.S. Securities and Exchange Commission S-K 1300 standards and the Australasian JORC Code (2012 Edition).

Table 1: Carolina Lithium Project – Summary of Mineral Resources Estimate at October 20, 2021 Based on Long-Term Pricing of US$ 15,239/t $LiOH*H_2O$

| Resource Category | Tonnes (Mt) | Grade ($Li_2O$%) | $Li_2O$ (t) | LCE (t) | $LiOH·H_2O$ (t) | Cut-Off Grade (% $Li_2O$) | Metallurgical Recovery (%)[1] |
|---|---|---|---|---|---|---|---|
| Indicated | 28.2 | 1.11 | 313,000 | 774,000 | 879,000 | 0.4 | 71.2 |
| Inferred | 15.9 | 1.02 | 162,000 | 401,000 | 455,000 | | |
| **Total** | **44.2** | **1.08** | **475,000** | **1,175,000** | 1,334,000 | | |

*Note 1 – Overall metallurgical recovery from spodumene ore to lithium hydroxide monohydrate*

The Company intends to file an inaugural Technical Report Summary in accordance with the United States Securities and Exchange Commission Regulation S-K 1300 Modernization of Property Disclosures requirements in the Company's next Quarterly Report on Form 10-Q.

The updated Mineral Resources will be incorporated into the upcoming Definitive Feasibility Study of the Carolina Lithium Project, which the Company expects to complete within Q4 2021.

Keith D. Phillips, President and Chief Executive Officer, commented: *"We are very pleased to have concluded our Phase 5 drill campaign and to further expand our world-class resource base. Carolina Lithium has one of the largest spodumene resources in North America, and the only one located in the United States. The increase in 'Indicated' resources of over 100% relative to resources previously reported under Australian standards, will underpin the definitive feasibility study for Carolina Lithium that we plan to publish later in 2021. The DFS will be another important step along the path to building America's leading lithium business to support and enable the rapidly-growing electric vehicle supply chain in the United States."*

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## Technical Discussion

### *Overview*

Piedmont holds a 100% interest in the Carolina Lithium Project located within the Tin-Spodumene Belt and along trend to the Hallman Beam and Kings Mountain mines, which historically provided most of the western world's lithium between the 1950s and the 1980s.

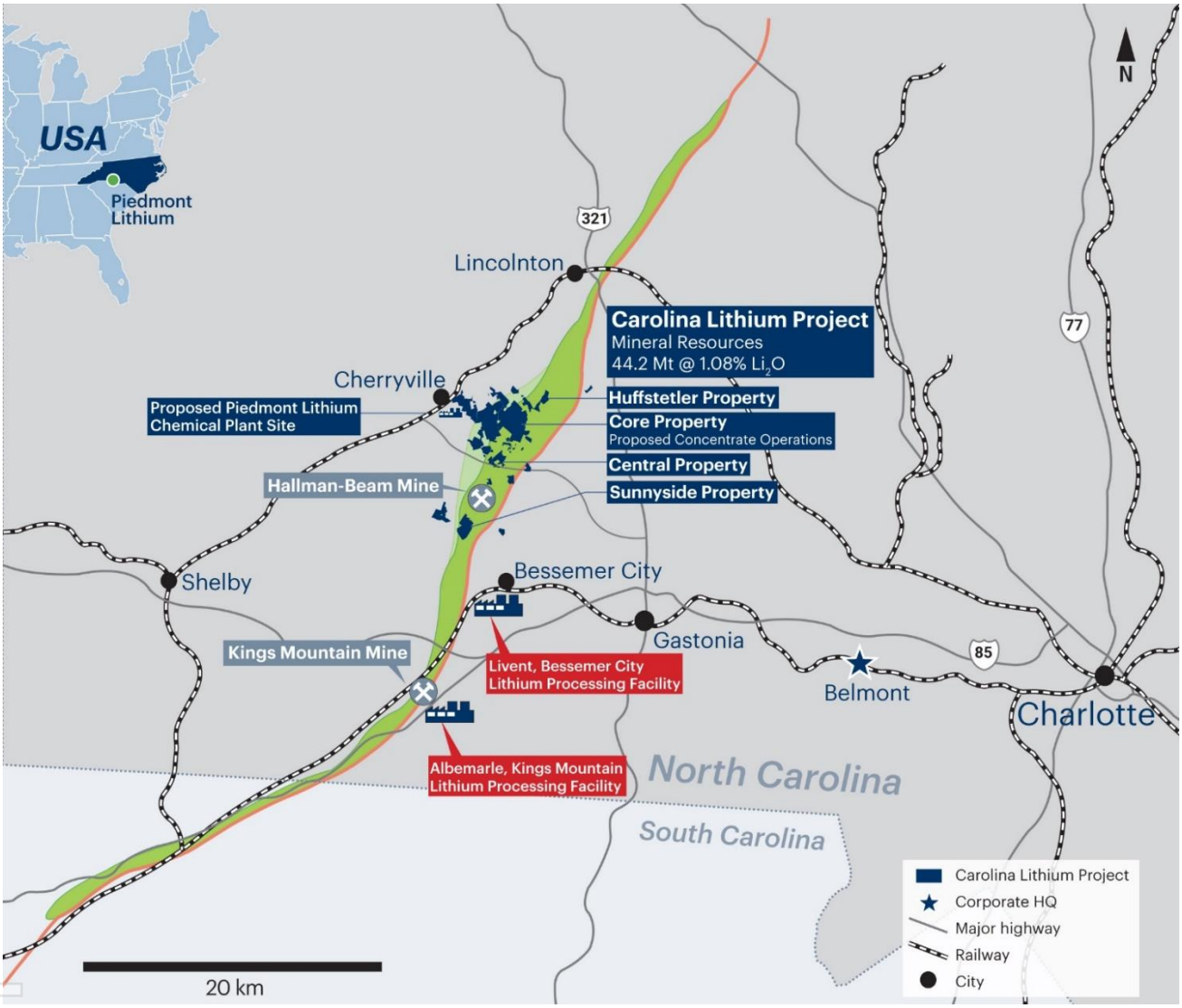


***Figure 1 - Piedmont Lithium's Carolina Lithium Project Regional Map***

The Project is located in a rural area of Gaston County, North Carolina, USA approximately 40 km northwest of the city of Charlotte. The Project is located on the Bessemer City, Lincolnton West, and Lincolnton East United States Geological Survey (USGS) Quadrangles. The coordinate system and datum for the modelling is UTM-17N, NAD-83. The Property is centred at approximately 35°23'20"N 81°17"20"W and is comprised of approximately 3,245 total acres, of which 1,526 acres are claims on private property through option or deferred purchase agreements, 113 acres are under a long-term mineral leased agreement, 79 acres are under lease to own agreements, and 1,527 acres are owned by Piedmont. For the properties hosting the MREs in this report, Piedmont controls 100% of the surface and mineral rights per one or more agreement scenarios.

### *Global Mineral Resources*

The Global Mineral Resource estimate, reported in Table 1, includes an update of lithium Mineral Resources for Carolina Lithium Project. The Mineral Resources estimate includes and update to the Mineral Resources of the Core property and the Central and Huffstetler Mineral Resources previously reported on 9 June 2021. The details of the three MRE's for lithium and by-products are summarized in Table 2. Central and Huffstetler properties are within one

mile of the Core property along the trend of the Carolina Tin-Spodumene Belt (Figure 2). The mineral percentages for the MRE were derived from a normative mineralogical calculation using XRF major oxide analysis for spodumene bearing pegmatites within the current lithium Mineral Resource.

The Competent Person concludes that sufficient data have been obtained through various exploration, sampling, and metallurgical testwork programs to support the geological interpretation of lithium-bearing pegmatite deposits on the Property. The data are of sufficient quantity and reliability to reasonably support the MRE. The MRE has been classified as Indicated and Inferred based on the guidelines specified by S-K 1300 and the JORC Code (2012 Edition). Classification is based upon an assessment of geological understanding of the deposit, geological and grade continuity, drill hole spacing, quality control results, search and interpolation parameters, and an analysis of available density information. Modelled Mineral Resources for each deposit appear to be of sufficient grade, quality, quantity, and coherence to have reasonable prospects for eventual economic extraction by open pit mining methods.

The Mineral Resource is based on an overall metallurgical recovery from spodumene to lithium hydroxide of 71.20%.

The updated lithium and by-product Mineral Resources will support the completion of a Definitive Feasibility Study with an estimated completion date within Q4 2021.

**Table 2: Carolina Lithium Project – Summary of By-Product Quartz, Feldspar, and Mica Mineral Resources Estimates Based on Long-Term Pricing of US$ 15,239/t $LiOH*H_2O$, Average By-Product Pricing of US$ 79.50/t**

| | | $Li_2O$ | | Quartz | | Feldspar | | Mica | |
|---|---|---|---|---|---|---|---|---|---|
| Cut-Off Grade ($Li_2O$ %) | | 0.4 | | 0.4 | | 0.4 | | 0.4 | |
| Metallurgical Recovery (%) | | 71.2[1] | | 50.8 | | 51.1 | | 35.5 | |
| Category | Deposit | Tonnes (Mt) | Grade (%) | Tonnes (Mt) | Grade (%) | Tonnes (Mt) | Grade (%) | Tonnes (Mt) | Grade (%) | Tonnes (Mt) |
| Indicated | Core | 25.75 | 1.10 | 0.282 | 29.59 | 7.62 | 45.06 | 11.60 | 4.29 | 1.10 |
| | Central | 2.47 | 1.30 | 0.031 | 28.79 | 0.71 | 45.16 | 1.12 | 3.24 | 0.08 |
| | Huffstetler | 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | **Total** | **28.22** | **1.11** | 0.313 | **29.52** | **8.33** | **45.07** | **12.72** | **4.20** | **1.18** |
| Inferred | Core | 10.93 | 1.02 | 0.111 | 29.13 | 3.18 | 45.52 | 4.97 | 4.18 | 0.46 |
| | Central | 2.69 | 1.10 | 0.030 | 29.99 | 0.81 | 43.88 | 1.18 | 4.08 | 0.11 |
| | Huffstetler | 2.31 | 0.91 | 0.021 | 28.82 | 0.67 | 48.60 | 1.12 | 3.24 | 0.08 |
| | **Total** | **15.93** | **1.02** | 0.162 | **29.22** | **4.66** | **45.67** | **7.28** | **4.03** | **0.64** |
| MRE Total | | **44.15** | **1.08** | **0.475** | 29.42 | 12.99 | 45.30 | 20.00 | 4.12 | 1.82 |

*Note 1 – Overall metallurgical recovery from spodumene ore to lithium hydroxide monohydrate*

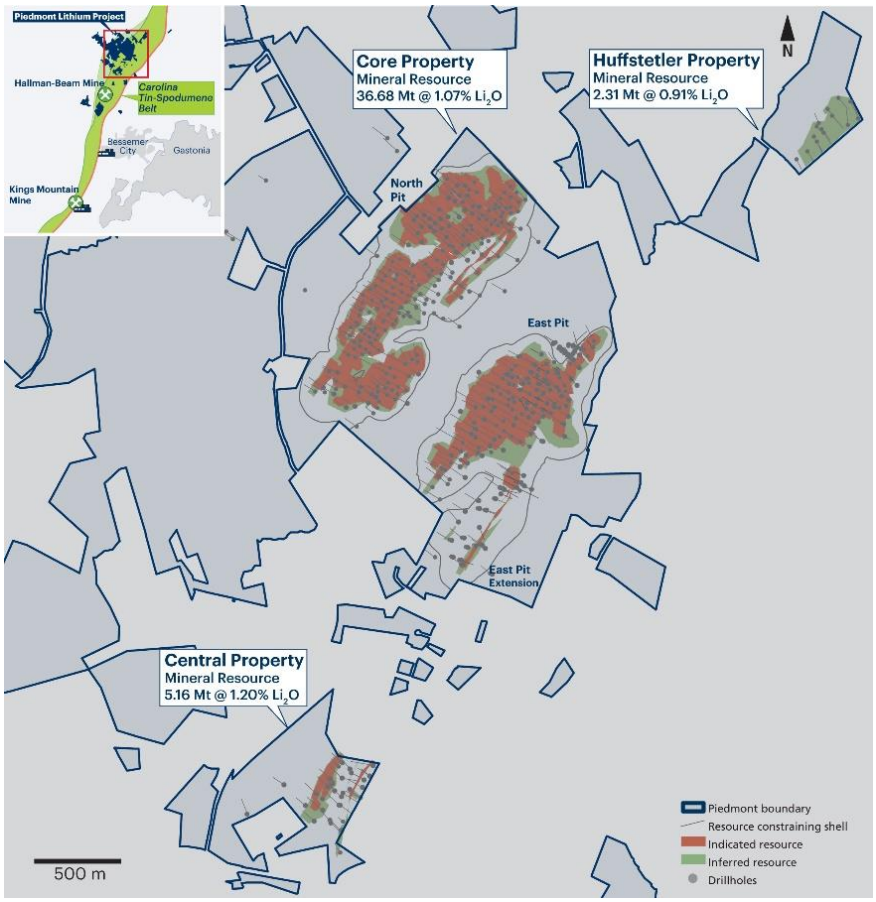


*Figure 2 – Piedmont Carolina Lithium Project Mineral Resource location map showing updated MRE and resource constraining shells.*

## *Core Property*

This MRE update incorporates the results of 127 diamond core holes totalling 18,567 metres (Appendix 1) drilled during the recently completed Phase 5 drill program. The update has increased the Core property MRE by 16%, from the 31.68 Mt @ 1.07% $Li_2O$, reported in April 2021, to 36.68 Mt @ 1.07% $Li_2O$. The increase in MRE size has come from several areas with the most significant being in the north pit area where numerous laterally extensive pegmatite sills and inclined sheets have been discovered. Sills and inclined sheets are typically stacked with cumulative true thicknesses of 10 to 20 metres. Individual sheets have been traced for 500 metres along strike and 300 metres down dip and range up to 12 metres true thickness.

A primary objective of the Phase 5 drilling was to complete infill drilling at the Core property. Results from this drilling have increased the Mineral Resources in the Indicated category by 101% compared with the Mineral Resources previously reported on June 25, 2019. Indicated resources account for 70% of the updated Core Property MRE. Furthermore, 92% of the resource is within 150 m of the topography surface.

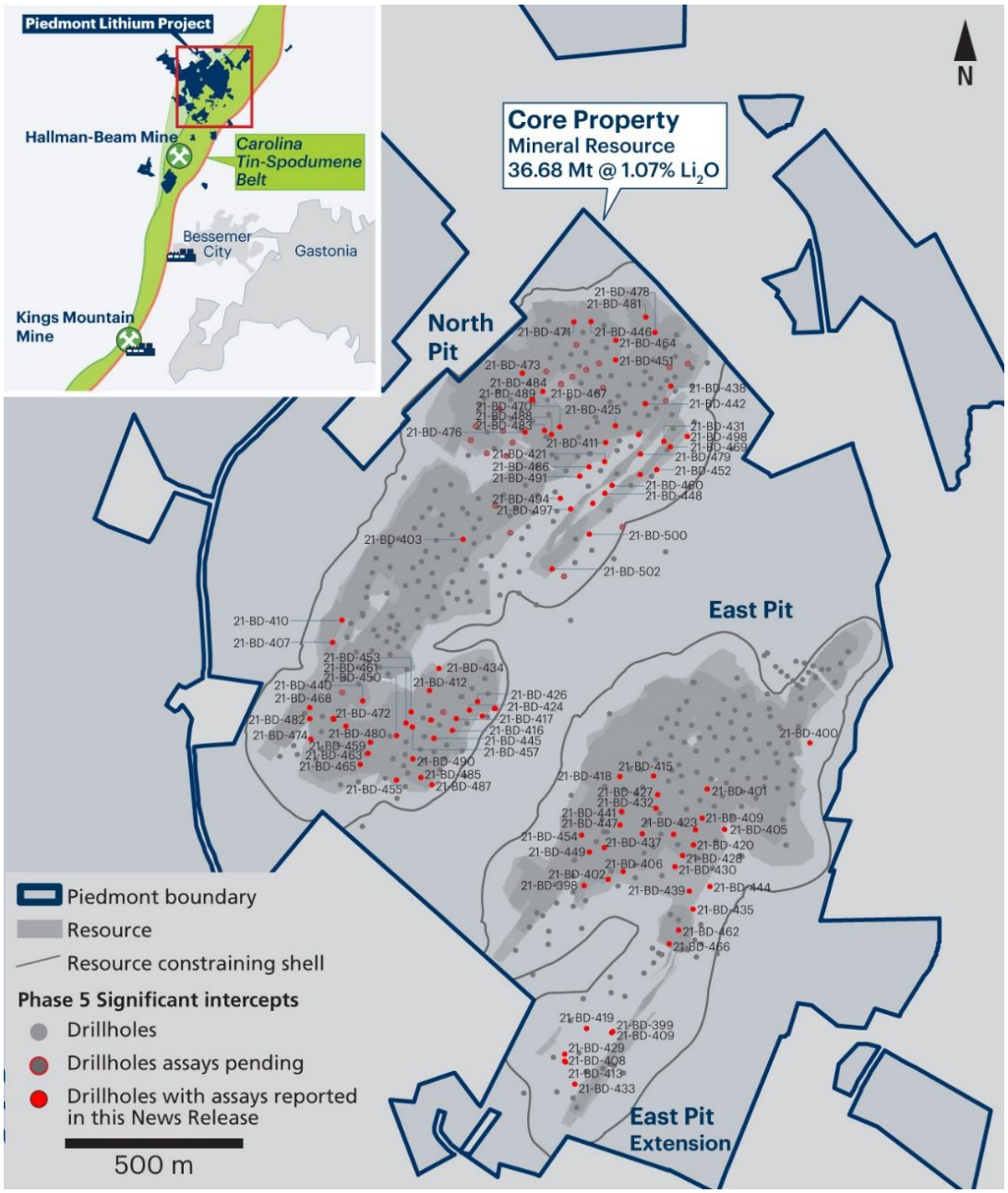


*Figure 3 - Drillhole location map for the Core property*

## Summary of Resource Estimate and Reporting Criteria

The resource has been prepared in compliance with JORC Code 2012 Edition and the ASX Listing Rules. The Company has included in Annexure A, the Table Checklist of Assessment and Reporting Criteria for the Carolina Lithium Project as prescribed by the JORC Code 2012 Edition and the ASX Listing Rules.

The following is a summary of the pertinent information used in the MRE with the full details provided in Table 1 included as Appendix 1: JORC Table 1.

The Mineral Resource estimate, representing in-situ lithium-bearing pegmatites, are additionally reported in accordance with (SEC) Regulation S-K 1300 and are therefore suitable for public release. Lithium Mineral Resources include tonnage estimates for $Li_2O$ and lithium hydroxide ($LiOH{\cdot}H_2O$) whereby one tonne of $Li_2O$ is equivalent to 2.81 tonnes lithium hydroxide.

### *Geology and Geological Interpretation*

Regionally, the Carolina Tin-Spodumene belt extends for 40 kilometres along the litho tectonic boundary between the Inner Piedmont and Kings Mountain belts. The mineralized pegmatites are thought to be concurrent and cross-

cutting dike swarms extending from the Cherryville granite, as the dikes progressed further from their sources, they became increasingly enriched in incompatible elements such as lithium (Li) and tin (Sn). The dikes are considered to be unzoned.

On the property scale, spodumene pegmatites are hosted in a fine to medium grained, weakly to moderately foliated amphibolites and metasediments. The spodumene pegmatites range from fine grained (aplite) to very coarse-grained pegmatite with primary mineralogy consisting of spodumene, quartz, plagioclase, potassium-feldspar and muscovite.

### *Drilling and Sampling Techniques*

These resources are an update to the previous Mineral Resource estimates reported in June 2021 in which the resource was informed by 415 drillholes at the Core property. The current resource estimate is now informed by a total of 542 drillholes at the Core property. Table 4 shows the allocation of drillholes per property.

**Table 4: Drill Hole Summary for the Mineral Resource Estimate Update**

| Property | Drill Type | Number of Holes | Number of Holes with XRF data |
|---|---|---|---|
| Core | Diamond and Rotary Sonic Core | 542 | 303 |
| Central | Diamond Core | 36 | 22 |
| Huffstetler | Diamond Core | 14 | 14 |

All diamond drill holes were collared with HQ and were transitioned to NQ once non-weathered and unoxidized bedrock was encountered. Drill core was recovered from surface.

Oriented core was collected on select drill holes using the REFLEX ACT III tool by a qualified geologist at the drill rig. This data was highly beneficial in the interpretation of the pegmatite dikes.

The drill spacing is approximately 40 to 80 metres along strike and down dip. This spacing is sufficient to establish continuity in geology and grade for this pegmatite system.

Drill collars were located with the differential global positioning system (DGPS) with the Trimble Geo 7 unit which resulted in accuracies <1 metre. All coordinates were collected in State Plane and re-projected to Nad83 zone 17 in which they are reported.

Down hole surveying was performed on each hole using a REFLEX EZ-Trac multi-shot instrument. Readings were taken approx. every 15 metres (50 feet) and recorded depth, azimuth, and inclination. All holes were geologically and geotechnically logged. All holes were photographed prior to sampling. Sampled zones were subsequently photographed a second time after the samples had been marked.

The core was cut in half with a diamond saw with one half submitted as the sample and the other half retained for reference. Standard sample intervals were a minimum of 0.35 m and a maximum of 1.5 m for HQ or NQ drill core, taking into account lithological boundaries (i.e. sample to, and not across, major contacts). A CRM or coarse blank was included at the rate of one for every 20 drill core samples (i.e. 5%). Sampling precision is monitored by selecting a sample interval likely to be mineralized and splitting the sample into two ¼ core duplicate samples over the same sample interval. These samples are consecutively numbered after the primary sample and recorded in the sample database as “field duplicates” and the primary sample number recorded. Field duplicates were collected at the rate of 1 in 20 samples when sampling mineralized drill core intervals.

### *Sample Analysis Method*

Normative mineralogy was calculated from total fusion X-ray fluorescence (XRF) major element data using a least squares method (MINSQ – Herrmann, W. and Berry, R.F., 2002, Geochemistry: Exploration, Environment, Analysis, volume 2, pp. 361-368). The normative calculations were validated against and corrected where necessary using X-ray diffraction (XRD) Rietveld semi-quantitative mineralogical data from 38 sample pulps selected to represent a range of chemical compositions and mineralogy, as well as 3 QEMSCAN analyses of composite samples prepared for metallurgical test work.

## *Resource Estimation Methodology*

Lithological and structural features were defined based upon geological knowledge of the deposit derived from drill core logs and geological observations on surface. Wireframe models of 92 pegmatite bodies were created in Micromine® by joining polygon interpretations made on cross sections and level plans spaced at 40 metres. Weathering profiles representing the base of saprolite and overburden were modelled based upon drill hole geological logging. Modelling utilized a topographic digital terrain model ("DTM") that incorporates LiDAR and photogrammetry data with high accuracy RTN-GPS survey control. The LiDAR data has an accuracy class of +/- 0.1 metres.

Rotated block models were constructed in Micromine® that encompass all modelled dikes using parent cell sizes of 6 m (E) by 12 to 18 m (N) by 6 to 18m (Z). The drill hole files were flagged by the pegmatite and weathering domains they intersected. Statistical analysis of the domained data was undertaken in Supervisor®. Samples were regularized to 1 metre composite lengths. Regularized weight percent mineral grades within the pegmatite model were analysed to confirm the suitability of the Ordinary Kriging method also used for the lithium Mineral Resource estimate. For each modelled pegmatite, regularized compositional grades for spodumene, quartz, albite, K-spar and muscovite were interpolated into the corresponding pegmatite block model along with grades for biotite and other gangue minerals. Albite and K-spar grade estimates are summed to generate a compositional grade estimate for feldspar by-product.

Block grade interpolation was validated by means of swath plots, comparison of sample and block model mineral grade averages and correlation coefficients, and by overlapping mineral grade distribution charts for sample and block model data. Cross sections of the block model with drill hole data superimposed were also reviewed.

## *Classification Criteria*

Resource classification parameters are based on the validity and robustness of input data and the estimator's judgment with respect to the proximity of resource blocks to sample locations and confidence with respect to the geological continuity of the pegmatite interpretations and grade estimates.

All blocks captured in pegmatite dike interpretation wireframes below the topography surface are classified as Inferred. Indicated classification boundaries define regions of blocks that, overall, meet the following criteria: Within major pegmatite dikes that are informed by at least two drill holes within a range of approximately 25 metres to the nearest drill hole in the along strike and down dip directions.

No Measured category resources are estimated.

## *Cut-Off Grade, Mining and Metallurgical Methods and Parameters*

The Mineral Resource Estimate is reported at a 0.4% $Li_2O$ cut-off grade, in line with cut off grades utilized at comparable deposits. The economic extraction of by-product minerals is contingent on the economic extraction of lithium mineral resources at the Project. Accordingly, the by-product Mineral Resource Estimate is also reported at a 0.4% $Li_2O$ cut-off grade.

The depth, geometry, and grade of pegmatites at the property make them amenable to exploitation by open cut mining methods. The Core resource model is constrained by a conceptual pit shell derived from a Whittle optimization using estimated block value and mining parameters appropriate for determining reasonable prospects of economic extraction. These include: maximum pit slope of 50° and strip ratio of 12, mining cost of US$2.90/t, spodumene concentration cost of US$25/t, processing cost of US$2,616/t $LiOH{\cdot}H_2O$, commodity price equivalent to US$15,239/t $LiOH{\cdot}H_2O$ and with appropriate recovery and dilution factors. Material falling outside of this shell is considered to not meet reasonable prospects for eventual economic extraction.

Conceptual shells for Central and Huffstetler resource models, developed using the above parameters, extended to the base of the resource models and beyond the modelled strike extent of the resource model where the deposits are open. Accordingly, the entire Central and Huffstetler resource models are considered to have reasonable prospects of eventual economic extraction.

Reasonable prospects for metallurgical recovery of spodumene and by-product minerals are supported by the results of the variability and composite sample test work undertaken at SGS laboratories in Lakefield, Ontario and previously

announced on May 13, 2020. Bulk samples of the quartz, feldspar and mica co-products from the Project have been evaluated for attributes such as product size distribution, chemical composition, purity, and colour. Test work results demonstrate that by-products have specifications that are marketable to prospective regional customers and strategic partners in the solar glass, engineered quartz, ceramic tile, and other industrial minerals markets.

### *Future Exploration*

Piedmont plans to release a Definitive Feasibility Study for the project within Q4 2021. Piedmont continues to evaluate newly acquired properties within the Carolina Tin Spodumene Belt for lithium mineralisation.

The Competent Person recommends the following actions are completed to support the ongoing Mineral Resource development effort at the Carolina Lithium Project:

- Investigate shallow portions of Core Property deposits deemed amenable to early-stage mining through infill drilling and appropriate surface methods, at 20 m to 40 m spacings. An understanding of the short-range variability of mineralization, pegmatite dike orientation, and weathering should be developed, and Measured resource classification criteria established.
- Model the extent of major metavolcanic and metasedimentary host rock units to support mine planning at the Core property. Models will improve bulk density estimation and support environmental and geotechnical characterization of waste rock.
- Conduct infill drilling to increase data density and support the upgrading of Mineral Resources from Inferred to Indicated throughout the Project.
- Undertake a study to identify new exploration targets and prioritize step-out drill targets that expand defined resource pegmatites.
- To support exploration targeting across its properties, and to direct future property acquisitions, Piedmont should continue to synthesize a mineral system model for spodumene bearing pegmatites along the TSB.

## About Piedmont Lithium

Piedmont Lithium is developing a world-class, multi-asset, integrated lithium business focused on enabling the transition to a net zero world and the creation of a clean energy economy in North America. The centerpiece of our operations, located in the renowned Carolina Tin Spodumene Belt of North Carolina, when combined with equally strategic and in-demand mineral resources, and production assets in Quebec, and Ghana, we believe positions us to be one of the largest, lowest cost, most sustainable producers of battery-grade lithium hydroxide in the world. Our diverse asset base is strategically located to serve the fast-growing North American electric vehicle supply chain. The unique geology, geography and proximity of our resources, production operations and customer base, will allow us to deliver valuable continuity of supply of a high-quality, sustainably produced lithium hydroxide from spodumene concentrate, preferred by most EV manufacturers. We believe that our diversified operations will enable us to play a pivotal role in supporting America's move toward decarbonization and the electrification of transportation and energy storage. As a member of organizations like the International Responsible Mining Association, and the Zero Emissions Transportation Association, we are committed to protecting and preserving our planet for future generations, and to making economic and social contributions to the communities we serve. For more information, see www.piedmontlithium.com.

### *Forward Looking Statements*

*This press release contains forward-looking statements within the meaning of or as described in securities legislation in the United States and Australia, including statements regarding exploration, development and construction activities; current plans for Piedmont's mineral and chemical processing projects; strategy; and expectations regarding permitting. Such forward-looking statements involve substantial and known and unknown risks, uncertainties and other risk factors, many of which are beyond our control, and which may cause actual timing of events, results, performance or achievements and other factors to be materially different from the future timing of events, results, performance or achievements expressed or implied by the forward-looking statements. Such risk factors include, among others: (i) that Piedmont will be unable to commercially extract mineral deposits, (ii) that Piedmont's properties may not contain expected reserves, (iii) risks and hazards inherent in the mining business (including risks inherent in exploring, developing, constructing and operating mining projects, environmental hazards, industrial accidents, weather or geologically related conditions), (iv) uncertainty about Piedmont's ability to obtain required capital to execute its business plan, (v) Piedmont's ability to hire and retain required personnel, (vi) changes in the market prices of lithium and lithium products, (vii) changes in technology or the development of substitute products, (viii) the uncertainties inherent in exploratory, developmental and production activities, including risks relating to permitting, zoning and regulatory delays and approvals, (ix) uncertainties inherent in the estimation of lithium resources, (x) risks related to competition, (xi) risks related to the information, data and projections related to Sayona Quebec and IronRidge Resources, (xii) occurrences and outcomes of claims, litigation and regulatory actions, investigations and proceedings, (xiii) risks regarding our ability to achieve profitability, enter into and deliver product under supply agreements on favorable terms, our ability to obtain sufficient financing to develop and construct our projects, our ability to comply with governmental regulations and our ability to obtain necessary permits, and (xiv) other uncertainties and risk factors set out in filings made from time to time with the U.S. Securities and Exchange Commission ("SEC") and the Australian Securities Exchange, including Piedmont's most recent filings with the SEC. The forward-looking statements, projections and estimates are given only as of the date of this presentation and actual events, results, performance and achievements could vary significantly from the forward-looking statements, projections and estimates presented in this presentation. Readers are cautioned not to put undue reliance on forward-looking statements. Piedmont disclaims any intent or obligation to update publicly such forward-looking statements, projections and estimates, whether as a result of new information, future events or otherwise. Additionally, Piedmont, except as required by applicable law, undertakes no obligation to comment on analyses, expectations or statements made by third parties in respect of Piedmont, its financial or operating results or its securities.*

*Cautionary Note to United States Investors Concerning Estimates of Measured, Indicated and Inferred Mineral Resources*

*The information contained herein by Piedmont has been prepared in accordance with the requirements of the securities laws in effect in the United States and Australia. The terms "mineral resource", "measured mineral resource", "indicated mineral resource" and "inferred mineral resource" are used herein as defined by the U.S. Securities and Exchange Commission ("SEC") in Regulation S-K, Item 1300 ("S-K 1300") and as defined in accordance with the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the "JORC Code").*

*Competent Persons Statement*

*The information in this announcement that relates to Exploration Results is based on, and fairly represents, information compiled or reviewed by Mr. Lamont Leatherman, a Competent Person who is a Registered Member of the 'Society for Mining, Metallurgy and Exploration', a 'Recognized Professional Organization' (RPO). Mr. Leatherman is an employee of the Company. Mr. Leatherman has sufficient experience that is relevant to the style of mineralization and type of deposit under consideration and to the activity being undertaken to qualify as a Qualified Person as defined in SEC Regulation S-K 1300 'Modernization of Property Disclosures for Mining Registrants' and as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Leatherman consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

*The information in this report that relates to Exploration Targets and Mineral Resources is based on, and fairly represents, information compiled or reviewed by Mr. Leon McGarry, a Competent Person who is a Professional Geoscientist (P.Geo.) and registered member of 'Professional Geoscientists Ontario' (PGO no. 2348), a 'Recognized Professional Organization' (RPO). Mr. McGarry is a Principal Resource Geologist and full-time employee at McGarry Geoconsulting Corp. Mr. McGarry has sufficient experience which is relevant to the style of mineralization and type of deposit under consideration and to the activity which he is undertaking to qualify as a Qualified Person as defined in SEC Regulation S-K 1300 'Modernization of Property Disclosures for Mining Registrants' and as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Mineral Resources and Ore Reserves'. Mr. McGarry consents to the inclusion in this report of the results of the matters based on his information in the form and context in which it appears.*

This announcement has been authorized for release by the Company's CEO, Mr. Keith Phillips

## *Appendix 1- Significant Intercepts*

| Hole ID | Easting | Northing | Elev. (m) | Az. (°) | Dip (°) | Depth (m) | | From (m) | To (m) | Intercept (m) | $Li_2O$ (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **21-BD-392** | 474627.316 | 3915999.711 | 255.7 | 327.0 | -51.6 | 41.0 | | *No Significant Intercepts* | | | |
| **21-BD-396** | 474374.547 | 3915699.242 | 263.1 | 298.9 | -54.5 | 166.50 | | 78.53 | 88.28 | 9.75 | 1.26 |
| | | | | | | | *including* | 80.64 | 83.50 | 2.86 | 2.40 |
| **21-BD-398** | 473972.029 | 3915408.980 | 258.2 | 305.0 | -55.2 | 139.0 | | 15.13 | 19.13 | 4.00 | 0.88 |
| | | | | | | | *and* | 32.74 | 34.92 | 2.18 | 0.65 |
| | | | | | | | *and* | 117.36 | 122.89 | 5.53 | 1.27 |
| **21-BD-399*** | 474050.282 | 3914992.381 | 277.9 | 148.9 | -60.7 | 154.0 | | 68.67 | 88.49 | 19.82 | 1.15 |
| | | | | | | | *including* | 78.00 | 82.24 | 4.24 | 1.99 |
| | | | | | | | *and* | 135.16 | 138.83 | 3.67 | 1.40 |
| **21-BD-400** | 474611.540 | 3915812.648 | 253.0 | 320.4 | -54.7 | 131.0 | | 104.46 | 112.93 | 8.47 | 0.97 |
| | | | | | | | *including* | 104.46 | 107.27 | 2.81 | 2.15 |
| **21-BD-401** | 474320.742 | 3915681.978 | 264.0 | 295.5 | -58.7 | 148.50 | | 70.62 | 72.34 | 1.72 | 1.06 |
| | | | | | | | *and* | 94.40 | 100.34 | 5.94 | 1.20 |
| | | | | | | | *and* | 113.97 | 122.76 | 8.79 | 1.46 |
| **21-BD-402*** | 474040.075 | 3915426.325 | 261.0 | 300.6 | -49.1 | 170.0 | | 20.10 | 22.37 | 2.27 | 1.03 |
| | | | | | | | *and* | 41.23 | 44.35 | 3.12 | 1.26 |
| | | | | | | | *and* | 48.09 | 51.14 | 3.05 | 0.76 |
| | | | | | | | *and* | 151.37 | 155.56 | 4.19 | 1.33 |
| **21-BD-403** | 473629.426 | 3916388.430 | 256.6 | 301.5 | -64.3 | 209.0 | | 70.35 | 83.00 | 12.65 | 1.12 |
| | | | | | | | *including* | 71.18 | 74.00 | 2.82 | 1.99 |
| | | | | | | | *and* | 124.56 | 126.39 | 1.83 | 1.01 |
| **21-BD-404*** | 474053.329 | 3914995.355 | 277.9 | 87.8 | -58.4 | 172.0 | | 61.83 | 74.47 | 12.64 | 1.25 |
| | | | | | | | *and* | 77.03 | 83.93 | 6.90 | 1.48 |
| | | | | | | | *and* | 143.65 | 156.66 | 13.01 | 1.00 |
| **21-BD-405** | 474369.733 | 3915567.169 | 266.1 | 288.7 | -80.9 | 149.0 | | 116.72 | 123.67 | 6.95 | 0.52 |
| **21-BD-406** | 474082.635 | 3915448.576 | 262.1 | 298.2 | -50.4 | 214.0 | | 26.93 | 30.65 | 3.72 | 0.61 |
| | | | | | | | *and* | 49.08 | 53.00 | 3.92 | 1.23 |
| | | | | | | | *and* | 157.12 | 162.10 | 4.98 | 1.29 |
| | | | | | | | *and* | 170.03 | 176.67 | 6.64 | 0.89 |
| | | | | | | | *and* | 203.17 | 205.48 | 2.31 | 1.09 |
| **21-BD-407** | 473260.454 | 3916096.796 | 249.8 | 304.3 | -53.7 | 92.0 | | 35.40 | 42.96 | 7.56 | 1.28 |
| **21-BD-408*** | 473919.409 | 3914909.450 | 272.2 | 114.3 | -59.6 | 218.0 | | 160.08 | 168.82 | 8.74 | 1.74 |
| | | | | | | | *and* | 172.59 | 176.53 | 3.94 | 0.79 |
| **21-BD-409** | 474306.300 | 3915599.625 | 263.8 | 291.0 | -54.3 | 184.50 | | 133.92 | 139.06 | 5.14 | 1.74 |
| | | | | | | | *and* | 158.04 | 162.09 | 4.05 | 1.37 |
| | | | | | | | *and* | 172.50 | 177.00 | 4.50 | 1.44 |
| **21-BD-410** | 473286.855 | 3916159.907 | 253.4 | 303.8 | -53.4 | 80.0 | | 28.45 | 35.83 | 7.38 | 0.48 |
| | | | | | | | *and* | 45.37 | 51.11 | 5.74 | 0.72 |
| **21-BD-411** | 474033.224 | 3916662.411 | 244.0 | 307.8 | -55.6 | 149.0 | | 104.33 | 105.95 | 1.62 | 1.36 |
| | | | | | | | *and* | 109.20 | 114.84 | 5.64 | 0.99 |
| | | | | | | | *and* | 136.97 | 138.66 | 1.69 | 1.30 |
| | | | | | | | *and* | 140.99 | 142.49 | 1.50 | 1.68 |
| **21-BD-412** | 473534.731 | 3915960.772 | 243.9 | 300.0 | -54.6 | 67.0 | | 29.30 | 32.76 | 3.46 | 1.14 |
| | | | | | | | *and* | 44.36 | 52.39 | 8.03 | 1.17 |
| **21-BD-413*** | 473917.315 | 3914912.245 | 272.0 | 297.7 | -62.5 | 167.0 | | 123.26 | 130.72 | 7.46 | 1.03 |
| | | | | | | | *and* | 136.70 | 159.28 | 22.58 | 1.28 |

| Hole ID | Easting | Northing | Elev. (m) | Az. (°) | Dip (°) | Depth (m) | | From (m) | To (m) | Intercept (m) | $Li_2O$ (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **21-BD-414** | 474287.453 | 3915566.658 | 263.4 | 295.3 | -60.0 | 202.50 | | 144.28 | 148.29 | 4.01 | 1.41 |
| | | | | | | | *and* | 153.00 | 157.83 | 4.83 | 1.23 |
| | | | | | | | *and* | 173.30 | 176.78 | 3.48 | 1.12 |
| **21-BD-415** | 474168.736 | 3915718.797 | 260.3 | 300.9 | -56.4 | 190.0 | | 105.65 | 108.93 | 3.28 | 1.10 |
| | | | | | | | *and* | 125.84 | 128.95 | 3.11 | 1.16 |
| | | | | | | | *and* | 160.00 | 162.38 | 2.38 | 1.01 |
| | | | | | | | *and* | 168.19 | 170.33 | 2.14 | 1.14 |
| **21-BD-416** | 473599.551 | 3915847.977 | 255.5 | 300.3 | -55.4 | 167.30 | | 6.17 | 11.60 | 5.43 | 1.22 |
| | | | | | | | *and* | 41.19 | 45.61 | 4.42 | 0.86 |
| | | | | | | | *and* | 89.64 | 93.83 | 4.19 | 0.88 |
| **21-BD-417** | 473610.472 | 3915881.148 | 256.0 | 299.4 | -59.8 | 107.0 | | 63.18 | 64.80 | 1.62 | 0.93 |
| | | | | | | | *and* | 72.26 | 78.26 | 6.00 | 0.95 |
| **21-BD-418** | 474073.436 | 3915717.269 | 257.2 | 299.7 | -55.0 | 169.0 | | 48.19 | 55.52 | 7.33 | 1.36 |
| | | | | | | | *and* | 94.35 | 96.45 | 2.10 | 1.56 |
| | | | | | | | *and* | 109.65 | 111.70 | 2.05 | 0.87 |
| | | | | | | | *and* | 128.37 | 131.20 | 2.83 | 1.41 |
| | | | | | | | *and* | 153.43 | 155.07 | 1.64 | 0.95 |
| **21-BD-419*** | 473979.043 | 3915004.331 | 272.7 | 115.0 | -59.5 | 242.0 | | 129.24 | 130.80 | 1.56 | 1.16 |
| | | | | | | | *and* | 200.87 | 203.70 | 2.83 | 0.85 |
| **21-BD-420** | 474282.023 | 3915523.713 | 264.0 | 299.6 | -56.3 | 214.50 | | 150.36 | 155.07 | 4.71 | 1.02 |
| | | | | | | | *and* | 172.00 | 177.25 | 5.25 | 1.15 |
| **21-BD-421** | 474030.401 | 3916608.302 | 243.7 | 309.2 | -57.2 | 179.0 | | 106.27 | 108.42 | 2.15 | 1.23 |
| | | | | | | | *and* | 114.86 | 117.23 | 2.37 | 1.68 |
| | | | | | | | *and* | 169.53 | 171.40 | 1.87 | 0.86 |
| **21-BD-422** | 473683.998 | 3915888.529 | 248.5 | 301.2 | -60.2 | 80.0 | | 34.27 | 36.47 | 2.20 | 1.32 |
| | | | | | | | *and* | 74.76 | 76.46 | 1.70 | 2.08 |
| **21-BD-423** | 474225.364 | 3915553.554 | 262.3 | 299.0 | -50.4 | 253.50 | | 60.82 | 63.12 | 2.30 | 1.92 |
| | | | | | | | *and* | 106.93 | 111.58 | 4.65 | 1.04 |
| | | | | | | | *and* | 164.51 | 168.03 | 3.52 | 0.92 |
| | | | | | | | *and* | 187.70 | 192.15 | 4.45 | 1.48 |
| | | | | | | | *and* | 236.93 | 238.86 | 1.93 | 1.34 |
| **21-BD-424** | 473647.722 | 3915905.116 | 254.0 | 299.9 | -49.2 | 80.0 | | 34.86 | 37.36 | 2.50 | 2.13 |
| | | | | | | | *and* | 67.16 | 75.14 | 7.98 | 1.47 |
| **21-BD-425** | 474061.015 | 3916709.843 | 235.6 | 293.4 | -59.6 | 152.0 | | 86.21 | 90.47 | 4.26 | 0.67 |
| | | | | | | | *and* | 94.49 | 97.64 | 3.15 | 1.36 |
| | | | | | | | *and* | 125.38 | 128.80 | 3.42 | 1.07 |
| **21-BD-426** | 473670.636 | 3915929.608 | 251.1 | 328.1 | -64.2 | 62.0 | | 48.48 | 50.70 | 2.22 | 1.22 |
| | | | | | | | *and* | 53.67 | 59.11 | 5.44 | 1.24 |
| **21-BD-427** | 474180.348 | 3915665.748 | 259.1 | 299.2 | -61.3 | 196.0 | | 9.40 | 19.10 | 9.70 | 0.45 |
| | | | | | | | *and* | 112.41 | 115.49 | 3.08 | 1.47 |
| | | | | | | | *and* | 136.93 | 142.22 | 5.29 | 0.85 |
| | | | | | | | *and* | 148.65 | 152.26 | 3.61 | 1.47 |
| **21-BD-428** | 474250.809 | 3915493.774 | 265.4 | 296.1 | -54.9 | 196.50 | | 145.40 | 147.83 | 2.43 | 1.24 |
| | | | | | | | *and* | 152.17 | 156.52 | 4.35 | 1.68 |
| | | | | | | | *and* | 172.65 | 176.64 | 3.99 | 1.05 |
| **21-BD-429*** | 473917.255 | 3914931.852 | 271.4 | 299.0 | -62.6 | 156.0 | | 84.17 | 92.83 | 8.66 | 0.98 |
| | | | | | | | *including* | 87.00 | 90.00 | 3.00 | 1.67 |

| Hole ID | Easting | Northing | Elev. (m) | Az. (°) | Dip (°) | Depth (m) | | From (m) | To (m) | Intercept (m) | $Li_2O$ (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **21-BD-430** | 474229.246 | 3915461.918 | 266.7 | 294.7 | -54.9 | 181.50 | | 110.68 | 112.75 | 2.07 | 0.97 |
| | | | | | | | *and* | 154.80 | 160.41 | 5.61 | 0.98 |
| **21-BD-431*** | 474126.537 | 3916684.608 | 235.8 | 308.8 | -69.3 | 163.0 | | 78.78 | 80.87 | 2.09 | 1.56 |
| | | | | | | | *and* | 82.30 | 85.57 | 3.27 | 1.13 |
| | | | | | | | *and* | 112.79 | 115.55 | 2.76 | 1.65 |
| **21-BD-432** | 474175.469 | 3915627.496 | 258.4 | 297.9 | -51.6 | 181.0 | | 29.10 | 35.51 | 6.41 | 1.26 |
| | | | | | | | *and* | 118.35 | 120.60 | 2.25 | 1.23 |
| | | | | | | | *and* | 143.71 | 147.86 | 4.15 | 0.91 |
| | | | | | | | *and* | 156.08 | 158.28 | 2.20 | 1.94 |
| | | | | | | | *and* | 159.60 | 163.14 | 3.54 | 1.90 |
| **21-BD-433*** | 473945.940 | 3914846.856 | 268.8 | 113.2 | -56.0 | 120.0 | | 82.50 | 93.38 | 10.88 | 1.48 |
| | | | | | | | *and* | 105.00 | 111.67 | 6.67 | 1.32 |
| **21-BD-434** | 473561.185 | 3916022.909 | 245.2 | 0.0 | -90.0 | 33.0 | | 27.08 | 29.50 | 2.42 | 1.38 |
| **21-BD-435** | 474280.883 | 3915342.029 | 268.2 | 301.3 | -65.5 | 180.0 | | 84.04 | 98.52 | 14.48 | 0.52 |
| | | | | | | | *including* | 89.72 | 91.77 | 2.05 | 1.65 |
| | | | | | | | *and* | 143.55 | 146.84 | 3.29 | 1.22 |
| **21-BD-436** | 473721.254 | 3915909.544 | 245.1 | 342.0 | -55.0 | 26.0 | | *No Significant Intercepts* | | | |
| **21-BD-437** | 474137.076 | 3915555.097 | 260.7 | 296.3 | -51.2 | 211.0 | | 42.47 | 48.27 | 5.80 | 1.21 |
| | | | | | | | *and* | 150.53 | 160.00 | 9.47 | 0.75 |
| | | | | | | | *and* | 203.83 | 205.31 | 1.48 | 2.23 |
| **21-BD-438** | 474217.601 | 3916821.771 | 245.7 | 304.6 | -61.4 | 139.0 | | 58.27 | 60.02 | 1.75 | 1.14 |
| | | | | | | | *and* | 102.64 | 108.70 | 6.06 | 1.43 |
| **21-BD-439** | 474270.100 | 3915392.966 | 267.4 | 294.9 | -67.5 | 173.0 | | 52.62 | 66.20 | 13.58 | 0.56 |
| | | | | | | | *and* | 134.00 | 138.50 | 4.50 | 1.34 |
| **21-BD-440** | 473345.620 | 3915931.452 | 234.0 | 288.3 | -49.3 | 131.0 | | 10.96 | 24.75 | 13.79 | 1.41 |
| | | | | | | | *and* | 70.20 | 74.47 | 4.27 | 1.51 |
| | | | | | | | *and* | 79.20 | 81.95 | 2.75 | 0.77 |
| | | | | | | | *and* | 98.06 | 108.02 | 9.96 | 1.48 |
| **21-BD-441** | 474078.062 | 3915618.586 | 251.0 | 310.7 | -44.5 | 107.0 | | 89.14 | 96.60 | 7.46 | 1.17 |
| **21-BD-442** | 474145.860 | 3916772.237 | 244.0 | 326.2 | -83.1 | 137.0 | | 61.93 | 67.63 | 5.70 | 0.52 |
| | | | | | | | *and* | 104.35 | 106.34 | 1.99 | 1.01 |
| | | | | | | | *and* | 124.82 | 131.39 | 6.57 | 1.57 |
| | | | | | | | *including* | 124.82 | 128.00 | 3.18 | 2.22 |
| **21-BD-443** | 473718.521 | 3915909.645 | 245.2 | 342.8 | -55.1 | 80.0 | | 45.71 | 48.30 | 2.59 | 1.20 |
| **21-BD-444*** | 474328.287 | 3915405.906 | 267.0 | 296.8 | -66.2 | 161.0 | | 104.95 | 117.48 | 12.53 | 0.49 |
| | | | | | | | *and* | 144.78 | 148.47 | 3.69 | 1.30 |
| **21-BD-445** | 473547.109 | 3915825.242 | 256.6 | 296.0 | -55.0 | 140.0 | | 22.38 | 27.37 | 4.99 | 1.18 |
| | | | | | | | *and* | 42.98 | 49.30 | 6.32 | 1.32 |
| | | | | | | | *and* | 83.79 | 86.00 | 2.21 | 0.84 |
| | | | | | | | *and* | 89.17 | 92.00 | 2.83 | 0.98 |
| | | | | | | | *and* | 114.78 | 122.85 | 8.07 | 0.83 |
| **21-BD-446** | 473943.448 | 3917003.590 | 260.0 | 305.8 | -56.4 | 119.0 | | 33.84 | 36.28 | 2.44 | 0.91 |
| | | | | | | | *and* | 65.34 | 68.00 | 2.66 | 1.12 |
| **21-BD-447** | 474073.922 | 3915580.350 | 257.3 | 298.0 | -52.1 | 142.0 | | 105.71 | 112.84 | 7.13 | 1.27 |
| **21-BD-448** | 474030.978 | 3916518.719 | 231.6 | 310.6 | -54.6 | 206.0 | | 25.32 | 29.55 | 4.23 | 1.12 |
| | | | | | | | *and* | 89.79 | 91.39 | 1.60 | 1.39 |
| | | | | | | | *and* | 187.00 | 195.33 | 8.33 | 0.74 |

| Hole ID | Easting | Northing | Elev. (m) | Az. (°) | Dip (°) | Depth (m) | | From (m) | To (m) | Intercept (m) | $Li_2O$ (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **21-BD-449** | 473987.404 | 3915503.431 | 255.8 | 297.5 | -50.4 | 123.0 | | 86.31 | 90.64 | 4.33 | 1.33 |
| **21-BD-450** | 473441.450 | 3915833.293 | 255.2 | 293.2 | -49.2 | 86.0 | | 0.00 | 4.56 | 4.56 | 1.56 |
| | | | | | | | *and* | 64.47 | 78.80 | 14.33 | 1.29 |
| **21-BD-451** | 474061.276 | 3916895.980 | 250.9 | 307.9 | -56.0 | 153.0 | | 35.37 | 39.93 | 4.56 | 1.05 |
| | | | | | | | *and* | 76.31 | 79.34 | 3.03 | 1.52 |
| **21-BD-452** | 474178.164 | 3916585.843 | 229.9 | 312.5 | -60.4 | 95.0 | | 30.07 | 32.26 | 2.19 | 1.54 |
| | | | | | | | *and* | 35.56 | 41.51 | 5.95 | 1.20 |
| **21-BD-453** | 473482.682 | 3915900.078 | 252.7 | 297.8 | -50.6 | 82.0 | | 12.16 | 21.00 | 8.84 | 0.83 |
| | | | | | | | *and* | 37.00 | 43.97 | 6.97 | 1.61 |
| | | | | | | | *and* | 49.12 | 52.54 | 3.42 | 1.23 |
| | | | | | | | *and* | 59.53 | 62.71 | 3.18 | 1.26 |
| | | | | | | | *and* | 75.33 | 77.55 | 2.22 | 1.25 |
| **21-BD-454** | 473964.885 | 3915551.395 | 247.7 | 300.5 | -50.1 | 75.50 | | 42.06 | 52.30 | 10.24 | 1.28 |
| **21-BD-455** | 473440.805 | 3915707.092 | 259.0 | 298.0 | -54.1 | 134.0 | | 67.41 | 78.10 | 10.69 | 1.02 |
| **21-BD-456** | 474131.299 | 3916571.857 | 235.5 | 309.9 | -49.9 | 131.0 | | 2.70 | 9.70 | 7.00 | 0.67 |
| | | | | | | | *and* | 19.85 | 23.50 | 3.65 | 0.77 |
| | | | | | | | *and* | 61.28 | 65.36 | 4.08 | 1.58 |
| | | | | | | | *and* | 103.08 | 105.72 | 2.64 | 0.88 |
| **21-BD-457** | 473485.832 | 3915857.619 | 257.2 | 295.6 | -50.3 | 103.0 | | 38.54 | 67.11 | 28.57 | 1.33 |
| | | | | | | | *including* | 49.30 | 52.57 | 3.27 | 2.94 |
| | | | | | | | *and* | 80.58 | 84.31 | 3.73 | 1.35 |
| **21-BD-458** | 474029.511 | 3915516.189 | 260.6 | 298.5 | -71.2 | 181.0 | | 113.46 | 117.51 | 4.05 | 1.47 |
| | | | | | | | *and* | 124.95 | 129.05 | 4.10 | 1.15 |
| | | | | | | | *and* | 162.87 | 164.38 | 1.51 | 1.49 |
| **21-BD-459** | 473367.000 | 3915814.270 | 245.3 | 348.8 | -69.6 | 122.0 | | 48.48 | 63.86 | 15.38 | 0.91 |
| **21-BD-460** | 474051.139 | 3916541.169 | 235.8 | 306.8 | -53.2 | 202.50 | | 24.38 | 31.75 | 7.37 | 1.10 |
| | | | | | | | *and* | 158.20 | 159.67 | 1.47 | 1.34 |
| | | | | | | | *and* | 189.61 | 200.21 | 10.60 | 0.49 |
| **21-BD-461** | 473468.199 | 3915868.518 | 256.6 | 293.0 | -46.0 | 95.0 | | 6.13 | 16.60 | 10.47 | 1.23 |
| | | | | | | | *and* | 33.10 | 35.54 | 2.44 | 0.62 |
| | | | | | | | *and* | 52.90 | 54.86 | 1.96 | 1.00 |
| | | | | | | | *and* | 59.73 | 64.56 | 4.83 | 1.79 |
| | | | | | | | *and* | 68.93 | 81.72 | 12.79 | 1.20 |
| **21-BD-462** | 474239.850 | 3915282.903 | 269.6 | 297.5 | -59.9 | 82.0 | | 57.80 | 71.45 | 13.65 | 0.59 |
| **21-BD-463** | 473360.501 | 3915782.766 | 248.1 | 338.2 | -80.4 | 95.0 | | 62.87 | 73.74 | 10.87 | 1.62 |
| | | | | | | | *and* | 76.80 | 80.16 | 3.36 | 0.70 |
| **21-BD-464** | 474061.976 | 3916951.611 | 255.6 | 306.6 | -57.0 | 141.0 | | 41.87 | 46.89 | 5.02 | 0.73 |
| | | | | | | | *and* | 55.55 | 57.45 | 1.90 | 0.91 |
| | | | | | | | *and* | 81.40 | 88.70 | 7.30 | 1.05 |
| **21-BD-465** | 473338.718 | 3915751.579 | 255.2 | 298.6 | -55.1 | 146.0 | | 100.41 | 110.72 | 10.31 | 1.40 |
| **21-BD-466** | 474212.927 | 3915243.594 | 269.3 | 298.2 | -55.1 | 79.0 | | 38.65 | 47.40 | 8.75 | 1.03 |
| | | | | | | | *including* | 39.47 | 41.60 | 2.13 | 2.60 |
| **21-BD-467** | 473855.466 | 3916807.117 | 247.5 | 306.8 | -53.5 | 155.0 | | 30.08 | 34.26 | 4.18 | 0.62 |
| | | | | | | | *and* | 69.34 | 74.32 | 4.98 | 1.10 |
| | | | | | | | *and* | 124.63 | 136.30 | 11.67 | 0.90 |
| | | | | | | | *and* | 140.68 | 142.73 | 2.05 | 1.28 |
| **21-BD-468** | 473195.542 | 3915912.378 | 255.1 | 337.8 | -43.8 | 94.0 | | 35.23 | 46.89 | 11.66 | 0.92 |

| Hole ID | Easting | Northing | Elev. (m) | Az. (°) | Dip (°) | Depth (m) | | From (m) | To (m) | Intercept (m) | $Li_2O$ (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | *and* | 53.94 | 63.65 | 9.71 | 1.23 |
| | | | | | | | *and* | 67.95 | 71.17 | 3.22 | 0.85 |
| **21-BD-469** | 474216.456 | 3916649.987 | 230.0 | 315.2 | -49.6 | 142.0 | | 20.00 | 28.57 | 8.57 | 1.42 |
| | | | | | | | *and* | 72.28 | 74.60 | 2.32 | 0.66 |
| | | | | | | | *and* | 86.07 | 89.21 | 3.14 | 1.18 |
| | | | | | | | *and* | 94.95 | 97.00 | 2.05 | 1.09 |
| | | | | | | | *and* | 119.89 | 122.24 | 2.35 | 1.26 |
| | | | | | | | *and* | 135.00 | 136.68 | 1.68 | 1.09 |
| **21-BD-470** | 473903.210 | 3916706.648 | 250.4 | 310.9 | -55.1 | 196.50 | | 16.40 | 21.35 | 4.95 | 1.68 |
| | | | | | | | *and* | 69.06 | 72.45 | 3.39 | 1.56 |
| | | | | | | | *and* | 121.90 | 124.72 | 2.82 | 1.53 |
| | | | | | | | *and* | 149.39 | 151.33 | 1.94 | 1.71 |
| | | | | | | | *and* | 167.85 | 169.88 | 2.03 | 1.40 |
| **21-BD-471** | 473992.026 | 3917004.695 | 259.6 | 305.6 | -54.4 | 108.0 | | 23.14 | 25.22 | 2.08 | 1.56 |
| | | | | | | | *and* | 36.71 | 38.73 | 2.02 | 0.77 |
| | | | | | | | *and* | 55.00 | 58.92 | 3.92 | 0.91 |
| **21-BD-472** | 473195.669 | 3915880.971 | 260.7 | 279.6 | -51.9 | 89.0 | | 46.96 | 60.53 | 13.57 | 1.19 |
| | | | | | | | *and* | 69.48 | 74.04 | 4.56 | 0.89 |
| | | | | | | | *and* | 81.68 | 84.00 | 2.32 | 1.10 |
| **21-BD-473** | 473797.239 | 3916858.367 | 248.3 | 310.0 | -55.0 | 132.0 | | 9.00 | 13.60 | 4.60 | 0.81 |
| | | | | | | | *and* | 94.75 | 97.54 | 2.79 | 1.06 |
| | | | | | | | *and* | 102.77 | 106.88 | 4.11 | 1.70 |
| | | | | | | | *and* | 114.04 | 117.87 | 3.83 | 1.19 |
| **21-BD-474** | 473198.756 | 3915822.884 | 262.0 | 294.7 | -49.5 | 119.0 | | 77.37 | 96.68 | 19.31 | 1.29 |
| **21-BD-475** | 474197.974 | 3916665.969 | 230.7 | 317.7 | -50.9 | 176.0 | | 0.20 | 7.50 | 7.30 | 1.31 |
| | | | | | | | *and* | 57.93 | 60.37 | 2.44 | 1.46 |
| | | | | | | | *and* | 86.76 | 88.40 | 1.64 | 1.31 |
| | | | | | | | *and* | 93.93 | 98.00 | 4.07 | 1.29 |
| | | | | | | | *and* | 167.00 | 170.11 | 3.11 | 0.61 |
| **21-BD-476** | 473860.187 | 3916696.360 | 250.0 | 308.1 | -61.6 | 212.0 | | 75.00 | 78.13 | 3.13 | 2.12 |
| | | | | | | | *and* | 120.85 | 125.50 | 4.65 | 0.66 |
| | | | | | | | *and* | 172.33 | 174.82 | 2.49 | 0.93 |
| | | | | | | | *and* | 184.80 | 203.09 | 18.29 | 1.09 |
| **21-BD-477** | 473262.116 | 3915881.038 | 254.4 | 300.4 | -54.7 | 134.0 | | 72.33 | 79.72 | 7.39 | 1.59 |
| | | | | | | | *and* | 108.85 | 125.60 | 16.75 | 1.17 |
| **21-BD-478** | 474172.829 | 3916973.801 | 259.1 | 308.1 | -54.1 | 96.0 | | 66.77 | 73.85 | 7.08 | 0.99 |
| | | | | | | | *and* | 86.07 | 91.18 | 5.11 | 1.16 |
| **21-BD-479** | 474131.743 | 3916629.946 | 238.7 | 312.9 | -59.2 | 200.0 | | 15.89 | 18.70 | 2.81 | 0.75 |
| | | | | | | | *and* | 180.55 | 189.71 | 9.16 | 0.52 |
| **21-BD-480** | 473297.788 | 3915859.876 | 253.6 | 293.5 | -53.4 | 101.0 | | 72.77 | 81.91 | 9.14 | 1.65 |
| **21-BD-481** | 474146.918 | 3917017.601 | 261.5 | 306.2 | -55.7 | 118.0 | | 67.86 | 75.09 | 7.23 | 1.20 |
| | | | | | | | *and* | 95.88 | 102.23 | 6.35 | 1.12 |
| **21-BD-482** | 473263.364 | 3915878.988 | 254.7 | 9.7 | -50.4 | 85.0 | | 54.62 | 63.00 | 8.38 | 1.30 |
| **21-BD-483** | 473804.867 | 3916691.902 | 257.3 | 307.8 | -61.0 | 217.0 | | 68.74 | 72.05 | 3.31 | 1.43 |
| | | | | | | | *and* | 85.18 | 90.70 | 5.52 | 1.11 |
| | | | | | | | *and* | 127.61 | 135.33 | 7.72 | 1.40 |
| | | | | | | | *and* | 177.10 | 196.52 | 19.42 | 0.69 |

| Hole ID | Easting | Northing | Elev. (m) | Az. (°) | Dip (°) | Depth (m) | | From (m) | To (m) | Intercept (m) | $Li_2O$ (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **21-BD-484** | 473826.446 | 3916783.783 | 251.546 | 310.0 | -50.0 | 58.0 | | 18.58 | 23.81 | 5.23 | 0.80 |
| **21-BD-485** | 473510.223 | 3915714.746 | 254.3 | 298.2 | -54.1 | 134.0 | | 53.23 | 57.04 | 3.81 | 1.11 |
| | | | | | | | *and* | 69.51 | 74.03 | 4.52 | 1.17 |
| **21-BD-486** | 473986.408 | 3916593.565 | 244.0 | 312.8 | -54.2 | 167.0 | | 124.47 | 129.34 | 4.87 | 1.27 |
| **21-BD-487** | 473541.334 | 3915694.005 | 250.0 | 301.7 | -55.3 | 80.0 | | *No Significant Intercepts* | | | |
| **21-BD-488** | 473879.748 | 3916685.355 | 253.8 | 309.2 | -75.6 | 226.0 | | 24.87 | 32.60 | 7.73 | 1.19 |
| | | | | | | | *and* | 83.14 | 85.81 | 2.67 | 1.21 |
| | | | | | | | *and* | 97.93 | 99.74 | 1.81 | 1.23 |
| | | | | | | | *and* | 177.66 | 186.78 | 9.12 | 0.47 |
| | | | | | | | *and* | 200.21 | 204.73 | 4.52 | 0.51 |
| **21-BD-489** | 473824.312 | 3916782.721 | 251.6 | 309.9 | -49.8 | 195.0 | | 106.13 | 108.46 | 2.33 | 1.20 |
| | | | | | | | *and* | 123.58 | 128.14 | 4.56 | 1.03 |
| | | | | | | | *and* | 136.28 | 139.96 | 3.68 | 1.28 |
| | | | | | | | *and* | 146.42 | 151.00 | 4.58 | 0.89 |
| | | | | | | | *and* | 156.20 | 159.73 | 3.53 | 0.74 |
| **21-BD-490** | 473487.274 | 3915767.351 | 258.0 | 300.7 | -54.0 | 125.0 | | 53.78 | 57.54 | 3.76 | 1.88 |
| | | | | | | | *and* | 72.78 | 77.00 | 4.22 | 1.42 |
| | | | | | | | *and* | 88.47 | 104.58 | 16.11 | 1.23 |
| **21-BD-491** | 473959.957 | 3916566.873 | 243.7 | 307.7 | -50.9 | 162.0 | | 126.73 | 131.81 | 5.08 | 0.90 |
| | | | | | | | *and* | 151.30 | 153.94 | 2.64 | 1.36 |
| **21-BD-493** | 473864.960 | 3916863.239 | 240.5 | 292.2 | -56.1 | 152.0 | | *Assays Pending* | | | |
| **21-BD-494** | 473905.220 | 3916504.221 | 248.8 | 308.6 | -50.0 | 170.0 | | 119.83 | 121.36 | 1.53 | 1.49 |
| | | | | | | | *and* | 136.09 | 142.79 | 6.70 | 1.65 |
| **21-BD-495** | 473732.506 | 3916757.465 | 256.0 | 303.6 | -51.3 | 175.50 | | *Assays Pending* | | | |
| **21-BD-496** | 473539.833 | 3915877.205 | 252.0 | 296.0 | -50.0 | 28.0 | | 20.10 | 23.50 | 3.40 | 0.92 |
| **21-BD-497** | 473933.955 | 3916474.603 | 248.5 | 309.1 | -49.4 | 209.0 | | 173.62 | 179.00 | 5.38 | 1.67 |
| | | | | | | | *and* | 197.78 | 203.45 | 5.67 | 1.07 |
| **21-BD-498** | 474264.693 | 3916679.377 | 229.7 | 311.7 | -54.0 | 131.0 | | 45.36 | 50.98 | 5.62 | 1.37 |
| | | | | | | | *and* | 78.16 | 79.92 | 1.76 | 1.67 |
| | | | | | | | *and* | 91.57 | 95.90 | 4.33 | 1.16 |
| | | | | | | | *and* | 121.45 | 124.18 | 2.73 | 1.03 |
| **21-BD-499** | 473538.246 | 3915876.949 | 252.2 | 294.3 | -50.6 | 120.0 | | 28.25 | 30.63 | 2.38 | 1.19 |
| | | | | | | | *and* | 55.41 | 58.28 | 2.87 | 1.62 |
| | | | | | | | *and* | 93.67 | 105.50 | 11.83 | 0.97 |
| **21-BD-500** | 473987.192 | 3916402.958 | 246.6 | 310.8 | -48.6 | 254.0 | | 41.92 | 46.68 | 4.76 | 0.70 |
| | | | | | | | *and* | 49.24 | 55.23 | 5.99 | 0.63 |
| | | | | | | | *and* | 104.00 | 108.31 | 4.31 | 1.34 |
| **21-BD-501** | 473997.032 | 3916490.351 | 236.5 | 302.5 | -50.4 | 214.0 | | 29.05 | 34.73 | 5.68 | 0.99 |
| | | | | | | | *and* | 194.15 | 199.05 | 4.90 | 0.75 |
| **21-BD-502** | 473881.468 | 3916304.281 | 246.6 | 300.1 | -59.4 | 113.0 | | 55.51 | 63.01 | 7.50 | 0.80 |
| | | | | | | | *and* | 92.00 | 95.66 | 3.66 | 1.17 |
| | | | | | | | *and* | 103.74 | 105.49 | 1.75 | 1.02 |
| | | | | | | | | | | | |

*Drillhole used for exploration. All other drillholes used for resource definition.

# *Appendix 2: JORC Table 1 Checklist of Assessment and Reporting Criteria*

**Section 1 Sampling Techniques and Data**

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| *Sampling techniques* | > *Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as downhole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.*<br>> *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.*<br>> *Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.* | All drill results reported are from diamond core samples. Data from rotary sonic drilling has been used in the MRE, however none of the results in this press release are from rotary sonic drilling. The core was split at an orientation not influenced by the distribution of mineralization within the drill core (i.e. bisecting mineralized veins or cut perpendicular to a fabric in the rock that is independent of mineralization, such as foliation). Diamond and Rotary Sonic drilling provided continuous core which allowed continuous sampling of mineralized zones. The core sample intervals were a minimum of 0.35 m and a maximum of 1.5 m for HQ or NQ drill core (except in saprolitic areas of poor recovery where sample intervals may exceed 1.5 m in length). Sampling took into account lithological boundaries (i.e. sample was to, and not across, major contacts).<br><br>Standards and blanks were inserted into the sample stream to assess the accuracy, precision and methodology of the external laboratories used. In addition, field duplicate samples were inserted to assess the variability of the mineralization., The laboratories undertake their own duplicate sampling as part of their internal QA/QC processes. Examination of the QA/QC sample data indicates satisfactory performance of field sampling protocols and assay laboratories providing acceptable levels of precision and accuracy. |
| *Drilling techniques* | > *Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.).* | All diamond drill holes were collared with HQ and were transitioned to NQ once non-weathered and unoxidized bedrock was encountered. Drill core was recovered from surface.<br>Rotary sonic core was only drilled in the saprolitic zones. Drill core was recovered from surface. Holes were terminated in the saprolitic zone or once unoxidized rock was encountered<br>Oriented core was collected on selected drill holes using the REFLEX ACT III tool by a qualified geologist at the drill rig. The orientation data is currently being evaluated. |
| *Drill sample recovery* | > *Method of recording and assessing core and chip sample recoveries and results assessed.*<br>> *Measures taken to maximise sample recovery and ensure representative nature of the samples.*<br>> *Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.* | The diamond core was transported from the drill site to the logging facility in covered boxes with the utmost care. Once at the logging facility, the following procedures were carried out on the core:<br>1. Re-aligning the broken core in its original position as closely as possible.<br>2. The length of recovered core was measured, and metre marks clearly placed on the core to indicate depth to the nearest centimetre.<br>3. The length of core recovered was used to determine the core recovery, which is the length of core recovered divided by the interval drilled (as indicated by the footage marks which was converted to metre marks), expressed as a percentage. This data was recorded in the database. The core was photographed wet before logged.<br>4. The core was photographed again immediately before sampling with the sample numbers visible.<br>For the Sonic core, recovery, geologic logging and sampling was conducted at the drill site by a Piedmont geologist.<br>Sample recovery was consistently good except for zones within the oxidized clay and saprolite zones. These zones were generally within the top 20m of the hole. No relationship is recognized between recovery and grade. The diamond drill holes were designed to intersect the targeted pegmatite below the oxidized zone where the sonic drilling was targeting pegmatites in the saprolitic zone. |
| *Logging* | > *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.*<br>> *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.*<br>> *The total length and percentage of the* | Geologically, data was collected in detail, sufficient to aid in Mineral Resource estimation.<br>Core logging consisted of marking the core, describing lithologies, geologic features, percentage of spodumene and structural features measured to core axis.<br>The core was photographed wet before logging and again immediately before sampling with the sample numbers visible.<br>All the core from the 107 holes reported was logged. |

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr><td></td><td>relevant intersections logged.</td><td></td></tr>
<tr><td>Sub-sampling techniques and sample preparation</td><td>> If core, whether cut or sawn and whether quarter, half or all core taken.<br>> If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.<br>> For all sample types, the nature, quality and appropriateness of the sample preparation technique.<br>> Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.<br>> Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.<br>> Whether sample sizes are appropriate to the grain size of the material being sampled.</td><td>Diamond core was cut in half with a diamond saw. Sonic core was split with a large knife or machete.<br>Standard sample intervals were a minimum of 0.35 m and a maximum of 1.5 m for HQ or NQ drill core, taking into account lithological boundaries (i.e. sample to, and not across, major contacts).<br>Prior to 2020, the preparation code is CRU21 (crush to 75% of sample <2 mm) and PUL45 (pulverize 250 g to 85% <75 microns), in 2020 the code was changed to CRU16.<br>A CRM or coarse blank was included at the rate of one for every 20 drill core samples (i.e. 5%).<br>Sampling precision is monitored by selecting a sample interval likely to be mineralized and splitting the sample into two ¼ core duplicate samples over the same sample interval. These samples are consecutively numbered after the primary sample and recorded in the sample database as “field duplicates” and the primary sample number recorded. Field duplicates were collected at the rate of 1 in 20 samples when sampling mineralized drill core intervals<br>Samples were numbered sequentially with no duplicates and no missing numbers. Triple tag books using 9-digit numbers were used, with one tag inserted into the sample bag and one tag stapled or otherwise affixed into the core tray at the interval the sample was collected. Samples were placed inside pre-numbered sample bags with numbers coinciding to the sample tag. Quality control (QC) samples, consisting of certified reference materials (CRMs), were given sample numbers within the sample stream so that they are masked from the laboratory after sample preparation and to avoid any duplication of sample numbers.</td></tr>
<tr><td>Quality of assay data and laboratory tests</td><td>> The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.<br>> For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.<br>> Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</td><td>All samples were shipped to the SGS laboratory in Lakefield, Ontario or Garson, Ontario.<br>Prior to 2020, the preparation code is CRU21 (crush to 75% of sample <2 mm) and PUL45 (pulverize 250 g to 85% <75 microns), in 2020 the code was changed to CRU16 and PUL10, respectively.<br>Prior to 2020, the analysis code for lithium was GE ICP91A, which uses a peroxide fusion with an ICP finish, and has lower and upper detection limits of 0.001 and 50,000 (5%) ppm respectively. In 2020, the code was changed to GE ICP92A50. Accuracy monitoring was achieved through submission and monitoring of certified reference materials (CRMs).<br>XRF analysis code for major oxides prior to 2020 was GO XRF76V. In 2020 the code was changed to GO_XRF72.<br>Sample numbering and the inclusion of CRMs was the responsibility of the project geologist submitting the samples. A CRM or coarse blank was included at the rate of one for every 20 drill core samples (i.e. 5%).<br>The CRMs used for this program were supplied by Geostats Pty Ltd of Perth, Western Australia. Details of the CRMs are provided below. A sequence of these CRMs covering a range in Li values and, including blanks, were submitted to the laboratory along with all dispatched samples so as to ensure each run of 100 samples contains the full range of control materials. The CRMs were submitted as “blind” control samples not identifiable by the laboratory.<br>Details of CRMs used in the drill program (all values ppm):
<table>
<tr><th>CRM</th><th>Manufacturer</th><th>Lithium</th><th>1 Std Dev</th></tr>
<tr><td>GTA-02</td><td>Geostats</td><td>1814</td><td>50</td></tr>
<tr><td>GTA-04</td><td>Geostats</td><td>9550</td><td>246</td></tr>
<tr><td>GTA-08</td><td>Geostats</td><td>1102</td><td>50</td></tr>
<tr><td>GTA-09</td><td>Geostats</td><td>4837</td><td>174</td></tr>
</table>
Sampling precision was monitored by selecting a sample interval likely to be mineralized and splitting the sample into two ¼ core duplicate samples over the same sample interval. These samples were consecutively numbered after the primary sample and recorded in the sample database as “field duplicates” and the primary sample number recorded. Field duplicates were collected at the rate of 1 in 20 samples when sampling mineralized drill core intervals. Random sampling precision was monitored by splitting samples at the sample crushing stage (coarse crush duplicate) and at the final sub-sampling stage for analysis (pulp duplicates). The coarse, jaw-crushed, reject material was split into two preparation duplicates, sometimes referred to as second cuts, crusher or preparation duplicates, which were then</td></tr>
</table>

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | | pulverized and analysed separately. These duplicate samples were selected randomly by the laboratory. Analytical precision was also monitored using pulp duplicates, sometimes referred to as replicates or repeats. Data from all three types of duplicate analyses was used to constrain sampling variance at different stages of the sampling and preparation process.<br>Examination of the QA/QC sample data indicates satisfactory performance of field sampling protocols and assay laboratories providing acceptable levels of precision and accuracy. |
| *Verification of sampling and assaying* | > *The verification of significant intersections by either independent or alternative company personnel.*<br>> *The use of twinned holes.*<br>> *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.*<br>> *Discuss any adjustment to assay data.* | Multiple representatives of Piedmont Lithium Inc. have inspected and verified the results.<br>Independent geochemist Dennis Arne (then CSA Managing Director - Principal Consultant) as well as independent geologist Leon McGarry (then CSA Senior Resource Geologist) toured the site, facilities and reviewed core logging and sampling workflow. Each provided comments on how to improve our methods and have been addressed. Verification core samples were collected by Leon McGarry.<br>No holes were twinned.<br>Three-metre rods or 10 foot core barrels were used. Li% was converted to $Li_2O$ by multiplying Li% by 2.153.<br>For by-products, accuracy of the normative mineralogy was monitored using Rietveld semi-quantitative mineralogy for 38 XRD analyses from pulp samples as well as 3 QEMSCAN analyses of composites used for metallurgical test work. Normative estimates for quartz, spodumene, albite and K-feldspar (microcline) have average relative accuracies less than +/- 2% compared to the QEMSCAN composite data, with muscovite showing a positive relative bias of 11.6% (i.e. 11.6% more muscovite in the QEMSCAN results than the normative mineralogy predicts). The normative mineralogical estimates for quartz, spodumene, albite, K-feldspar and muscovite have average relative biases of 1%, -3.7%, 11.9%, 2.9% and 6.3%, respectively, compared to the XRD results, excluding XRD mineral estimates of 2% or less taken to be at or close to the method limit of detection, and following correction of the normative estimates for K-feldspar and muscovite using the XRD data. The QEMSCAN mineralogical data are taken to be more reliable than the XRD data given complications associated with the Rietveld analysis of minerals with a strong preferred orientation, such as muscovite. |
| *Location of data points* | > *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.*<br>> *Specification of the grid system used.*<br>> *Quality and adequacy of topographic control.* | Drill collars were located with the Trimble Geo 7 which resulted in accuracies <1m.<br>All drill hole collar coordinates were collected in State Plane and re-projected to Nad83 zone17 in which they are reported.<br>Drill hole surveying was performed on each hole using a REFLEX EZ-Trac multi-shot instrument. Readings were taken approx. every 15 metres and recorded depth, azimuth, and inclination. In 2020, Piedmont conducted a LIDAR survey for the Project area. |
| *Data spacing and distribution* | > *Data spacing for reporting of Exploration Results.*<br>> *Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.*<br>> *Whether sample compositing has been applied.* | For selected areas, the drill spacing is approximately 40 m to 80 m along strike and down dip. This spacing is sufficient to establish continuity in geology and grade for this pegmatite system.<br>Composite samples are reported in $Li_2O$%, this is calculated by multiplying drill length by $Li_2O$ for each sample; then the weighted averages for multiple samples are totalled and divided by the total drill length for the selected samples |
| *Orientation of data in relation to geological structure* | > *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.*<br>> *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.* | The drill holes were designed and oriented with inclinations ranging from -52.4 to -85.8 degrees, to best intersect the pegmatite bodies as close to perpendicularly as possible.<br>Assay results in Appendix 1 are drill lengths and not true thicknesses.<br>All results reported for rock chip samples are from surface outcrop, sub-crop and float blocks. The reported samples are considered as grab samples and do not represent a continuous sample over any width or length of the mineralized system. |
| *Sample security* | > *The measures taken to ensure sample security.* | Drill core samples and rock chip samples were shipped directly from the core shack by the project geologist in sealed rice bags or similar containers using a reputable transport company with shipment tracking capability so that a chain of custody can be maintained. Each bag was sealed with a security strap with a unique security number. The containers were locked in a shed if they were stored overnight at any point during transit, including at |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | | the drill site prior to shipping. The laboratory confirmed the integrity of the rice bag seals upon receipt |
| *Audits or reviews* | > *The results of any audits or reviews of sampling techniques and data.* | CSA Global developed a "Standard Operating Procedures" manual in preparation for the drilling program.<br>Independent geochemist Dennis Arne (then CSA Managing Director - Principal Consultant) as well as independent geologist Leon McGarry (then CSA Senior Resource Geologist). Each provided comments on how to improve our methods and have been addressed. Verification core samples were collected by Leon McGarry. |

**Section 2 Reporting of Exploration Results**

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| *Mineral tenement and land tenure status* | > *Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.*<br>> *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.* | As of September 1, 2021, the Project comprised approximately 3,245 acres of surface property and associated mineral rights in North Carolina, of which approximately 1,527 acres are owned, approximately 113 acres are subject to long-term lease, approximately 79 acres are subject to lease-to-own agreements, and approximately 1525 acres are subject to exclusive option agreements. These exclusive option agreements, upon exercise, allow us to purchase or, in some cases, enter into long-term leases for the surface property and associated mineral rights.<br>There are no known historical sites, wilderness or national parks located within the Project area and there are no known impediments to obtaining a licence to operate in this area. |
| *Exploration done by other parties* | > *Acknowledgment and appraisal of exploration by other parties.* | The Project is focused over an area that has been explored for lithium dating back to the 1950's where it was originally explored by Lithium Corporation of America which was subsequently acquired by FMC Corporation. Most recently, North Arrow explored the Project in 2009 and 2010. North Arrow conducted surface sampling, field mapping, a ground magnetic survey and two diamond drilling programs for a total of 19 holes. Piedmont Lithium Inc. has obtained North Arrow's exploration data. |
| *Geology* | > *Deposit type, geological setting and style of mineralisation.* | Spodumene pegmatites, located near the litho tectonic boundary between the Inner Piedmont and Kings Mountain belt. The mineralization is thought to be concurrent and cross-cutting dike swarms extending from the Cherryville granite, as the dikes progressed further from their sources, they became increasingly enriched in incompatible elements such as Li, tin (Sn). The dikes are considered to be unzoned. |
| *Drill hole Information* | > *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:*<br>> *easting and northing of the drill hole collar*<br>> *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar*<br>> *dip and azimuth of the hole*<br>> *down hole length and interception depth*<br>> *hole length.*<br>> *If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.* | Details of drill results reported in this release are in Appendix 1 |
| *Data aggregation methods* | > *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.*<br>> *Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.*<br>> *The assumptions used for any reporting of metal equivalent values should be clearly stated.* | All drill hole intercepts reported are down hole thickness not true thickness.<br>Weighted averaging was used in preparing the intercepts reported.<br>The drill intercepts were calculated by adding the weighted value (drill length x assay) for each sample across the entire pegmatite divided by the total drill thickness of the pegmatite. For each mineralized pegmatite, all assays were used in the composite calculations with no upper or lower cut-offs. Mineralized pegmatite is defined as spodumene bearing pegmatite.<br>Intercepts were reported for entire pegmatites, taking into account lithological boundaries (i.e. sample to, and not across, major contacts), with additional high-grade sub intervals reported from the same pegmatite. In the case where thin wall rock intervals were included, a value of 0% $Li_2O$ was inserted for the assay value, thus giving that individual sample a weighted value of 0% $Li_2O$. |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | | Cumulative thicknesses are reported for select drill holes. These cumulative thicknesses do not represent continuous mineralized intercepts. The cumulative thickness for a drill hole is calculated by adding the drill widths of two or more mineralized pegmatites encountered in the drill hole, all other intervals are omitted from the calculation.<br>Li% was converted to $Li_2O$% by multiplying Li% by 2.153. |
| *Relationship between mineralisation widths and intercept lengths* | > *These relationships are particularly important in the reporting of Exploration Results.*<br>> *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.*<br>> *If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').* | Drill intercepts are reported as $Li_2O$% over the drill length, not true thickness. The pegmatites targeted strike northeast-southwest and dip moderately to the southeast or have a near vertical orientation. The holes were drilled to the northwest and southeast with inclinations ranging between -52.4 and -85.8. |
| *Diagrams* | > *Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.* | Appropriate diagrams are in this and previous press releases. |
| *Balanced reporting* | > *Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.* | All of the relevant exploration data for the Exploration Results available at this time has been provided in this report. |
| *Other substantive exploration data* | > *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.* | Soil sampling and walking magnetometer geophysical surveys have been completed on the Core and Central property as well as other regional properties. |
| *Further work* | > *The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).*<br>> *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.* | A Definitive Feasibility Study of the Carolina Lithium Project is in progress with an estimated completion of Q4 2021. Piedmont continues to evaluate newly acquired properties within the Carolina Tin Spodumene Belt for lithium mineralization. |

**Section 3 Estimation and Reporting of Mineral Resources**

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| *Database integrity* | > *Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.* | Geological and geotechnical observations are recorded digitally using the Geospark® Database System directly into a central relational database using standardized logging codes developed for the project. To minimize risk of transcription errors sample data and analytical results are imported directly into the central database from the independent laboratory. |
| | > *Data validation procedures used.* | On the August 3rd data cutoff date, an extract of the exploration database was validated by the Competent Person for internal integrity via Micromine® validation functions. This includes logical integrity checks of drill hole deviation rates, presence of data beyond the hole depth maximum, and overlapping from-to errors within interval data. Visual validation checks were also made for obviously spurious collar co-ordinates or downhole survey values. |
| *Site visits* | > *Comment on any site visits undertaken by the Competent Person and the outcome of those visits.* | The Competent Person; Leon McGarry P.Geo, has undertaken multiple personal inspections of the Piedmont Properties during 2017, 2018 and 2019 to review exploration sites, drill core and work practices. The site geology, sample collection, and logging data collection procedures were examined. A semi-random selection of drill collar locations at the Core, Central and Sunnyside properties was verified by the collection of independent check samples from drill core and outcrop from the Core Property. In addition to spodumene, the presence of by-product minerals: quartz, feldspar (albite |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | | and K-spar) and muscovite mineralization were verified by the inspection of drill core and outcrop.<br>Travel to the site was curtailed during 2020 and 2021 due to the impact of the COVID-19 pandemic. The Competent Person monitored exploration completed at the property during this period through remote review of core photography and exploration activities by regular video conferencing with the exploration team.<br>The outcome of site visits and subsequent remote review was the determination that data has been collected in a manner that supports reporting a Mineral Resource Estimate (MRE) for the Core, Central and Huffstetler properties in accordance with the JORC Code, and controls to the mineralization are well-understood. |
| | > *If no site visits have been undertaken indicate why this is the case.* | Site visits have been conducted. |
| *Geological interpretation* | > *Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.* | Geological models developed for the Core, Central and Huffstetler deposits are based on the lithological logging of visually distinct pegmatite spodumene-bearing pegmatites within amphibolite-biotite schist and metasedimentary host facies. Deposit geology is well understood based on surface pegmatite outcrops and extensive drilling at spacings sufficient to provide multiple points of observation for modelled geological features. Thicker units show good continuity between points of observation and allow a higher level of confidence for volume and mineralization interpretations. Whereas the grade and thickness of thinner or weathered or altered units tend to be more discontinuous and interpretations have more uncertainty. |
| | > *Nature of the data used and of any assumptions made.* | Input data used for geological modelling are derived from qualitative interpretation of observed lithology and alteration features; semi-quantitative interpretation of mineral composition and the orientation of structural features; and quantitative determinations of the geochemical composition of samples returned from core drilling. |
| | > *The effect, if any, of alternative interpretations on Mineral Resource estimation.* | Geological models developed for the Core, Central and Huffstetler deposits are underpinned by a good understanding of the deposit geology at the Piedmont properties. Based on input drillhole data, including orientated core measurements, and surface mapping, pegmatite dikes were modelled as variably orientated vertical to sub-horizontal sheets. Where drill data is sparse (i.e. at 80 m spacings) alternative interpretations, of the continuity of individual pegmatites between holes could be made. Alternate interpretations would adjust tonnage estimates locally but would not likely yield a more geologically reasonable result, or impact tonnage and grade estimates beyond an amount congruent with assigned confidence classifications. |
| | > *The use of geology in guiding and controlling Mineral Resource estimation.* | The model developed for mineralization is guided by observed geological features and is principally controlled by the interpreted presence or absence of spodumene-bearing pegmatite. Estimated deposit densities are controlled by interpreted weathering surfaces. Above the saprolite surface, and in outcrop, spodumene-bearing pegmatites have variable $Li_2O$ and mineral composition grade populations, sufficiently similar to fresh rock, allowing $Li_2O$ and mineral composition grade estimates not to be controlled by interpreted weathering surfaces. |
| | > *The factors affecting continuity both of grade and geology.* | Geological continuity is controlled by the preference for fractionated pegmatitic fluids to follow preferential structural pathways within the amphibolite and metasediment host rocks. Grade continuity within the pegmatite is controlled by pegmatite thickness, degree of fluid fractionation and the intensity of spodumene alteration to muscovite and amount of weathering. At the Core Property, modelled continuity is impacted by post-mineralization diabase intrusions and fault offsets in areas of limited extent. Modelled pegmatite extent is limited to within the Core, Central and Huffstetler property permit boundaries. |
| *Dimensions* | > *The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.* | Spodumene-bearing pegmatites on the Core Property are assigned to three major corridors. Corridors extend over a strike length of up to 2 km and commonly have a set of thicker dikes of 10–20 m true thickness at their core. These major dikes strike northeast and dip steep to moderately toward the southeast. Dikes are intersected by drilling to a depth of 300 m down dip. Dikes are curvi-planar in aspect. Flat to shallowly dipping sills and inclined sheets are encountered across the Core Property and are tested by drilling over 600 m along strike and 500 m down dip. The vertical thickness of individual sills and inclined sheets range from 1 m to 18 m. A close spaced series of sills and inclined sheets typically have cumulative thicknesses greater than 10 m. Spodumene-bearing pegmatites, or a close spaced series of pegmatites, can be traced between drillhole intercepts and surface outcrops for over 1,700 m. Although individual units may pinch out, the deposit is open at depth. The Mineral Resource has a maximum vertical |

| Criteria | JORC Code explanation | Commentary |
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| | | depth of 210 m from surface. Ninety-two percent of the Mineral Resource is within 150 m of the topography surface.<br>Spodumene-bearing pegmatites on the Central Property fall within a corridor that extends over a strike length of up to 0.6 km and contains a pair of thicker dikes of 10 m to 20 m true thickness at their core. These major dikes strike northeast and dip steeply to the southeast. Dikes are intersected by drilling to a depth of 225 m down dip. Although individual units may pinch out, the deposit is open at depth. The Central Mineral Resource has a maximum vertical depth of 275 m, beginning at the topography surface. On average, the model extends to 200 m below surface.<br>Spodumene bearing pegmatites on the Huffstetler Property fall within a corridor that extends over a strike length of up to 0.4 km and form a stacked series of inclined sheets each 2 m to 18 m true thickness. Inclined sheets strike northeast and dip moderately to the northwest. Spodumene bearing pegmatites are intersected by drilling to a depth of 200 m down dip from surface however up-dip extents are limited by the southeastern edge of the permit boundary. Although individual units may pinch out, the deposit is open at depth. The Huffstetler Mineral Resource has a maximum vertical depth of 150 m, beginning at the topography surface.<br>Predominantly, entire intervals of spodumene-bearing pegmatite are selected for modelling. Occasionally interstitial waste material 1 m to 2 m in thickness may be included to facilitate modelling at a resolution appropriate for available data spacings. No minimum thickness criteria are used for modelling; however, a pegmatite must be present in at least two drillholes to ensure adequate control on model geometry. Generally, spodumene-bearing pegmatite models are sufficient for use as MRE domains. |
| *Estimation and modelling techniques* | > *The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.* | Samples coded by the modelled pegmatite domain they exploit were composited to 1 m intervals, a length equal to the dominant drill sample interval, and were then evaluated for the presence of extreme grades. Domained samples underwent spatial analysis within the Supervisor™ software which was used to define semi-variogram models for the $Li_2O$ grades and develop search ellipsoids and parameters. A four-pass search strategy was employed, with successive searches using more relaxed parameters for selection of input composite data and/or a larger search radius. Core, Central and Huffstetler Mineral Resources were estimated using Ordinary Kriging (OK) into block models created in Micromine®. The $Li_2O$ variable was estimated independently in a univariate sense.<br>In addition to $Li_2O$, regularized weight percent grades are modelled for nine minerals: spodumene, quartz, albite, K-spar, muscovite, anorthite, apatite, biotite and diopside, which were estimated independently in a univariate sense. The spatial variability of mineral grades is sufficiently similar to $Li_2O$ grades to allow the use of the same search parameters. The consistent estimation approach was selected to ensure block compositional grade proportions honour those of input samples, and that block grade estimates for compositional minerals approximate 100%. |
| | > *The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.* | This $Li_2O$ MRE is an update to the MRE for the Project reported on April 8, 2021. This by-product MRE is an update to the by-product MRE for the Project reported on June 9, 2019.<br>Estimates of $Li_2O$ and by-product grades and tonnages show good agreement with previous estimates. At the Core deposit tonnages show an incremental increase attributable to drilling completed at that property since the previous estimates.<br>For each property resource estimate interpolations were checked visually, statistically, and using an Inverse Distance Weighted estimate. |
| | > *The assumptions made regarding recovery of by-products.* | Bench-scale metallurgical test work undertaken on material from the Core Property at NCSU-MRL announced on September 4, 2018 and at SGS Lakefield announced on May 13, 2020, recovered quartz, feldspar and mica concentrates as by-products to spodumene. These products were recovered at sufficient amounts and qualities to support the estimation of by-product Mineral Resources for the Core Property in addition to spodumene-hosted $Li_2O$.<br>Pegmatites at the Central and Huffstetler properties have comparable physical properties to Core Property pegmatites and have similar mineralogical proportions. Central and Huffstetler pegmatites are therefore concluded to have comparable grades and by-product specifications. |
| | > *Estimation of deleterious elements or other non-grade variables of economic significance (e.g. sulphur for acid mine drainage characterisation).* | Within the resource model, deleterious elements, such as iron are reported to be at acceptably to low levels. Metallurgical test work demonstrates that deleterious elements will not impede the economic extraction of the modelled spodumene hosted lithium and by-product minerals. No estimates for other elements were generated. |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | | Core Property pegmatites have comparable mineralogical and physical properties to pegmatites at the Central and Huffstetler properties. |
| | > *In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.* | Rotated block models aligned to the dominant strike of pegmatites were orientated at 35° for the Core and Huffstetler deposits and at 40° for the Central deposit.<br>Given the variable orientation and the thickness of the Core and Huffstetler MRE domains, a block size of 6 m(E) x 12 m(N) x 6 m(RL) was selected to honour moderately dipping pegmatites in the across strike dimension, and the shallow dipping pegmatites in the vertical dimension. For the Central Property, a block size of 6 m(E) x 18 m(N) x 18m(RL) was selected to honour steeply dipping pegmatites in the across strike dimension.<br>Core, Central and Huffstetler parent block dimensions compare to an average drillhole spacing of 40 m within the more densely informed areas, that increases up to an 80 m spacing in less well-informed areas. Blocks were sub-celled to a minimum resolution of 2 m(E) x 4 m(N) x 1 m(RL). |
| | > *Any assumptions behind modelling of selective mining units.* | Block dimensions are assumed to be appropriate for the mining selectivity achievable via open-pit mining method and likely bench heights. At the neighbouring Hallman-Beam mine operating benches of 9 m were mined. |
| | > *Any assumptions about correlation between variables.* | For the Core, Central and Huffstetler properties, only one metal grade is modelled. Other than lithium analyses, there are insufficient geochemical data to allow a meaningful analysis of correlation between lithium and, for example, tin and tantalum. There is no modelled correlation between pegmatite $Li_2O$ grade and density, and the relationship is not considered in the estimate.<br>Modelled by-product mineral grades show both positive and negative correlations between modelled variables. Regularized weight percent grades are modelled independently in a univariate sense using search parameters that result in block model grade estimates that honour mineral proportions that result from normative calculations. |
| | > *Description of how the geological interpretation was used to control the resource estimates.* | Modelled pegmatite dikes host and constrain the mineralization model. Each pegmatite domain was estimated independently with hard boundaries assumed for each separate pegmatite body. The dominant modelled orientation of pegmatite units was used to inform search ellipse parameters, so that in-situ grade trends are reflected in the block model. |
| | > *Discussion of basis for using or not using grade cutting or capping.* | Domained $Li_2O$ grade data was assessed via histogram and log probability plots to identify extreme values based on breaks in the continuity of the grade distributions. Samples with extreme grades were visually compared to surrounding data. Most extreme grades are encountered in high-grade portions of modelled dikes and are well constrained by surrounding holes. Where extreme grades were unusually high relative to surrounding samples, they were capped at 3.00% or 3.50% $Li_2O$. At Core, capping affected 12 composite samples ranging from 3.02% to 4.30% $Li_2O$. At Central, capping affected one 4.10% $Li_2O$ composite sample. At Huffstetler no samples we capped.<br>Domained by-product mineral grade data show normal distributions that do not contain extreme values and have coefficients of variation less than 1. On this basis, it is not necessary to cap by-product mineral grades. |
| | > *The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.* | Block model estimates were validated visually and statistically. Estimated block grades were compared visually in section against the corresponding input data values. Additionally, trend plots of input data and block estimates were compared for swaths generated in each of the three principal geometric orientations (northing, easting and elevation). Statistical validation included a comparison of composite means, and average block model grades, and a validation by Global Change of Support analysis. |
| *Moisture* | > *Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.* | Tonnages are reported on a dry basis. |
| *Cut-off parameters* | > *The basis of the adopted cut-off grade(s) or quality parameters applied.* | The Mineral Resource is reported using a 0.4% $Li_2O$ cut-off which approximates cut-off grades used for comparable spodumene-bearing pegmatite deposits exploited by open pit mining.<br>The economic extraction of by-product minerals at the is contingent on the economic extraction of lithium Mineral Resources at the Project. Accordingly, the by-product Mineral Resource is reported using a 0.4% $Li_2O$ cut-off which approximates cut-off grades used for comparable spodumene-bearing pegmatite deposits exploited by open pit mining. |
| *Mining factors or assumptions* | > *Assumptions made regarding possible mining methods, minimum mining* | The methods used to design and populate the Core and Central Mineral Resource block models were defined under the assumption that the deposit |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | *dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.* | will be mined via open pit methods, since the depth, geometry and grade of pegmatites at the property make them amenable to exploitation by those methods. Inspection of drill cores and the proximity of open pit mines in similar rock formations indicate that ground conditions are likely suitable for such a mining method.<br>The Core resource model is constrained by a conceptual pit shell derived from a Whittle optimization using estimated block value and mining parameters appropriate for determining reasonable prospects of economic extraction. These include a maximum pit slope of 50°, appropriate recovery and dilution factors, a mining cost of US$2.90/t, a SC6 concentration cost of US$25/t, a processing cost of US$2,616/t $LiOH{\cdot}H_2O$ and a commodity price equivalent to US$ 15,239/t $LiOH{\cdot}H_2O$.<br>Conceptual shells for Central and Huffstetler resource models, developed using the above parameters, extended to the base of the resource model where the deposit is open, and beyond the modelled strike extent of the resource model where the deposit is open. Accordingly, the entire Central and Huffstetler resource models are considered to have reasonable prospects of eventual economic extraction. |
| *Metallurgical factors or assumptions* | > *The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.* | The materials targeted for extraction comprise spodumene, quartz, feldspar and mica minerals for which metallurgical processing methods are well established. Based on metallurgical test work completed by SGS and reported by the company, which indicates:<br>• Spodumene concentrate grades exceeding 6.0% $Li_2O$ and less than 1.0% $Fe_2O_3$<br>• Quartz samples delivered to potential solar glass customers and met customer quality expectations and has characteristics comparable to marketable quartz products.<br>• Feldspar concentrate, comprised of albite and K-spar minerals, has characteristics comparable to marketable feldspar products.<br>• Muscovite mica concentrate has physical properties comparable to marketable muscovite products.<br>The Competent Person has assumed that metallurgical concerns will not pose any significant impediment to the economic processing and extraction of spodumene from mined pegmatite. |
| *Environmental factors or assumptions* | > *Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.* | No assumptions have been made regarding waste streams and disposal options; however, the development of local pegmatite deposits within similar rock formations was not impeded by negative environmental impacts associated with their exploitation by open cut mining methods. It is reasonable to assume that in the vicinity project area, there is sufficient space available for the storage of waste products arising from mining. |
| *Bulk density* | > *Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.* | In situ dry bulk densities for the Core, Central and Huffstetler Mineral Resource were assigned on a lithological basis using representative averages.<br>At Core average bulk densities for spodumene bearing pegmatite and waste rock were derived from 3,434 determinations on selected drill core from the Property made by Piedmont geologists in the field and 139 by SGS Labs, Lakefield, Ontario.<br>At Central average bulk densities for spodumene bearing pegmatite and waste rock were derived from 197 determinations made by Piedmont geologists in the field on selected drill core from the Property. Density of weathered spodumene bearing pegmatite is taken from available data at Core property as of January 8, 2021.<br>At Huffstetler average bulk densities for fresh spodumene bearing pegmatite and waste rock were derived from 55 determinations made by Piedmont geologists in the field on selected drill core from the Property. Density of weathered spodumene bearing pegmatite and waste rock is taken from available data at Core property as of February 15, 2021.<br>Both Piedmont and SGS used the displacement method. Core fragments are typically 6 to 10 cm in length and 90 to 120 $cm^3$ in volume. The Competent Person considers the values chosen to be suitably representative. |

| Criteria | JORC Code explanation | Commentary |
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| | > *The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vughs, porosity, etc.), moisture and differences between rock and alteration zones within the deposit.* | Bulk density determinations are made on waste rock, saprolite and overburden. Moisture content of porous rock is determined from the change in mass after samples are dried. Void spaces were adequately accounted for by coating samples in cling film. |
| | > *Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.* | For the Core Property, simple averages were generated for fresh pegmatite (2.70 t/m$^3$), pegmatite saprolite (1.90 t/m$^3$), overburden waste (1.31 t/m$^3$), saprolite waste rock (1.41 t/m$^3$) and amphibolite/metasedimentary country rock (2.88 t/m$^3$).<br>For the Central Property, simple averages were generated for fresh pegmatite (2.84 t/m$^3$), pegmatite saprolite (1.86 t/m$^3$), overburden waste rock (1.23 t/m$^3$), saprolite waste rock (1.36 t/m$^3$) and country rock (2.95 t/m$^3$).<br>For the Huffstetler Property, simple averages were generated for fresh pegmatite (2.70 t/m$^3$), pegmatite saprolite (1.86 t/m$^3$), overburden waste rock (1.30 t/m$^3$), saprolite waste rock (1.36 t/m$^3$) and country rock (2.84t/m$^3$). |
| *Classification* | > *The basis for the classification of the Mineral Resources into varying confidence categories.* | Mineral Resources at the Core and Central and properties have been classified as Indicated and Inferred on a qualitative basis; taking into consideration numerous factors such as: the validity and robustness of input data and the estimator's judgment with respect to the proximity of resource blocks to sample locations and confidence with respect to the geological continuity of the pegmatite interpretations and grade estimates. All blocks captured in pegmatite dike interpretation wireframes below the topography surface are classified as Inferred. Indicated classification boundaries were generated that define a region of blocks that are informed by at least two drillholes and eight samples within a range of approximately 25 m to the nearest drillhole in the along strike or strike and downdip directions. No Measured category resources are estimated. |
| | > *Whether appropriate account has been taken of all relevant factors (i.e. relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).* | The classification reflects areas of lower and higher geological confidence in mineralized lithological domain continuity based on the intersecting drill sample data numbers, spacing and orientation. Overall mineralization trends are reasonably consistent within the various lithology types over numerous drill sections. |
| | > *Whether the result appropriately reflects the Competent Person's view of the deposit* | The Core, Huffstetler and Central Property MREs appropriately reflect the Competent Person's views of the deposit. |
| *Audits or reviews* | > *The results of any audits or reviews of Mineral Resource estimates.* | The current model has not been audited by an independent third party. |
| *Discussion of relative accuracy/ confidence* | > *Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.* | The accuracy of Mineral Resources for the Core, Central Huffstetler properties is communicated through the classification assigned to the deposit. The MRE has been classified in accordance with the JORC Code (2012 Edition) using a qualitative approach. All factors that have been considered have been adequately communicated in Section 1 and Section 2 of this Table. |
| | > *The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.* | Mineral Resource statements for the Core, Central and Huffstetler properties have an effective date of August 15, 2021 and relate to a global estimate of in-situ mineralized rock tonnes, $Li_2O$% grade, estimated $Li_2O$ tonnage, Lithium Carbonate Equivalent (LCE) tonnage whereby one tonne of $Li_2O$ is equivalent to 2.473 tonnes LCE. and $LiOH{\cdot}H_2O$ tonnage whereby one tonne of $Li_2O$ is equivalent to 2.81 tonnes $LiOH{\cdot}H_2O$.<br>By-product Mineral Resource statements for the Core, Central and Huffstetler have an effective date of August 15, 2021 and relate to a global estimate of in-situ mineralized rock tonnes and estimated quartz by-product tonnage, estimated feldspar by-product tonnage comprising albite and K-spar minerals, and estimated muscovite mica by-product tonnage. |
| | > *These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.* | There is no recorded production data for the Piedmont properties. |