

ARGYLE

RESOURCES

CSE: ARGL/OTC: ARLYF/FES: ME0

High Purity Silica Potential

Advancing supply
chain support for the
industrial heartland of
America & beyond...

CORPORATE
PRESENTATION 2024 - 2025



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HISTORIC RESOURCES. This Presentation contains information regarding samples from, and geological features on, the various property claims, as well as information on deposits as historic data from previously published public information. The Company cautions investors it has yet to verify historical exploration data. Except where noted, a qualified person has not done sufficient work to classify any of the references discussed in this Presentation as current mineral resources or mineral reserves and these estimates are being treated as historical in nature and not as current mineral resources or mineral reserves. Accordingly, these historical estimates are presented only for the purposes of assisting in describing the extent of mineralization and to outline the exploration potential.

QUALIFIED PERSON (QP) The technical content of the Presentation has been reviewed and approved by George M. Yordanov, OGC, P.GEO., P.Geo, an advisor to the Company and a Qualified Person under National Instrument 43-101 - *Standards of Disclosure for Mineral Projects*.

Highlights

Silica Is The World's Second-Most Consumed Resource After Water¹.



- Silica is an oxide of silicon (silicon dioxide) which is primarily found in quartzite. High Purity Quartzite (HPQ) is ideal for industrial processing. *Source: <https://en.wikipedia.org/wiki/Quartz>*
- Typically, quartz deposits are widely dispersed in nature, but the presence of ore bodies capable of yielding high-purity quartz is exceedingly rare. *Source: <https://www.mdpi.com/2075-163X/13/12/1505>*
- Silicon, derived from high quality quartz, is the most common material for semiconductors due to its high stability as an atom, and that it doesn't break easily under high temperatures.
Source: <https://www.acumenresearchandconsulting.com/silicon-market#:~:text=The%20Global%20Silicon%20Market%20Size,5.1%25%20from%202022%20to%202030.>
- Argyle Resources silica project shows exposed quartz outcrops potentially offering low-cost exploration.*
Source: GM18030 – Geologic Report, Pilgrim Islands Quartzite – K.W. Greig
- Our Quebec based properties serve the St. Lawrence seaway, proximal to deepwater ports, abundant electricity, skilled labour, rail and highways.
- Quebec ranked 8th most attractive jurisdiction worldwide for mining investment.
Source: <https://www.fraserinstitute.org/categories/mining>
- EU declared Silicon a critical raw material as a wide range of modern technologies depend on it to make various industrial and consumer products.
Source: <https://www.consilium.europa.eu/en/infographics/critical-raw-materials/>
- Silicon added to US Department of Energy (DOE) List of Critical Materials for Energy list in 2023
Source: <https://www.federalregister.gov/documents/2023/08/04/2023-16611/notice-of-final-determination-on-2023-doe-critical-materials-list>
- Silicon metal added to Canadian critical minerals list 2024
Source: <https://www.canada.ca/en/campaign/critical-minerals-in-canada/critical-minerals-an-opportunity-for-canada.html>

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* George M. Yordanov, OGQ., P.GEO., an Independent Qualified Person as such term is defined by National Instrument 43-101. Argyle cautions investors it has yet to verify historical exploration data.

1. <https://www.mdpi.com/2075-163X/13/12/1505>

Silica vs. Silicon

A raw material for the future



Silicon dioxide, also known as silica, is an oxide of silicon with the chemical formula SiO₂, commonly found in nature as quartz. In many parts of the world, silica is the major constituent of sand.¹

Elemental silicon is produced commercially by reducing SiO₂ with carbon in an electric furnace. High-purity silicon, for the electronics industry, is prepared by the thermal decomposition of ultra-pure trichlorosilane, followed by recrystallisation.²

The term “silicon metal” is typically used for silicon that contains between 96% and 99.99% silicon.

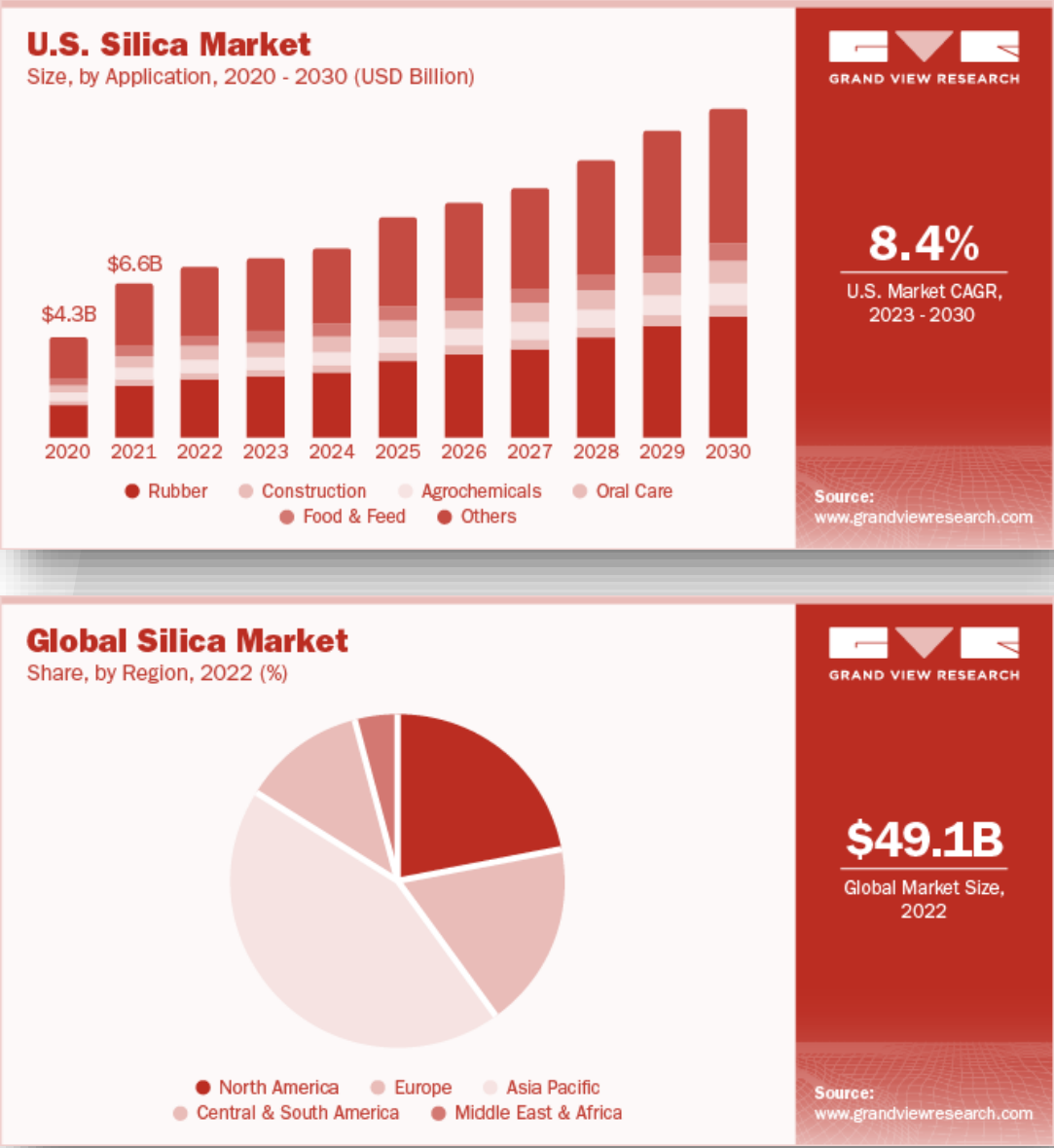
1. https://en.wikipedia.org/wiki/Silicon_dioxide#

2. Source: <https://www.rsc.org/periodic-table/element/14/silicon#:~:text=Elemental%20silicon%20is%20produced%20commercially,pure%20trichlorosilane%2C%20followed%20by%20recrystallisation.>

Silica Market

Silica sand (SiO_2) is the finely crushed form of quartz with high silicon dioxide content. It contains at least 95% SiO_2 and less than 0.6% iron oxide. Sand that does not fulfill this criterion is considered regular sand.

The global silica market size was valued at USD 49.12 billion in 2022 and is estimated to grow at a compound annual growth rate (CAGR) of 9.9% from 2023 to 2030.¹



Market size value in 2023¹ USD 52.69 billion

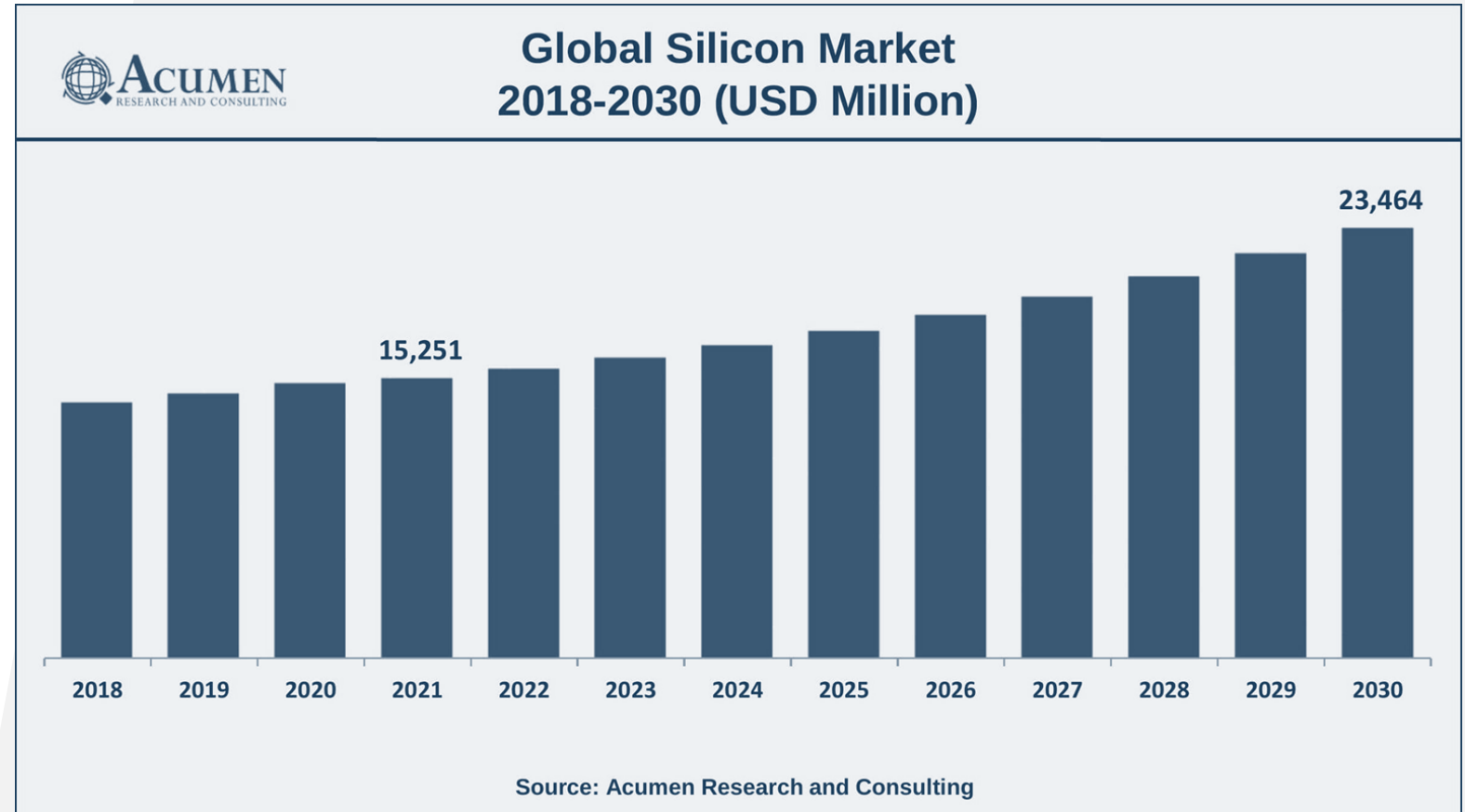
Revenue forecast for 2030 USD 104.34 billion

1. <https://www.grandviewresearch.com/industry-analysis/silica-market>

Silicon Market

Silicon, derived from high quality quartz, is the most common material for semiconductors due to its high stability as an atom, and that it doesn't break easily under high temperatures. Being most utilized in construction activities, semiconductors, microchips, photovoltaic panels.¹

The Global Silicon Market Size accounted for USD 15.2 billion in 2021 and is estimated to achieve a market size of USD 23.4 billion by 2030 growing at a CAGR of 5.1% from 2022 to 2030.¹



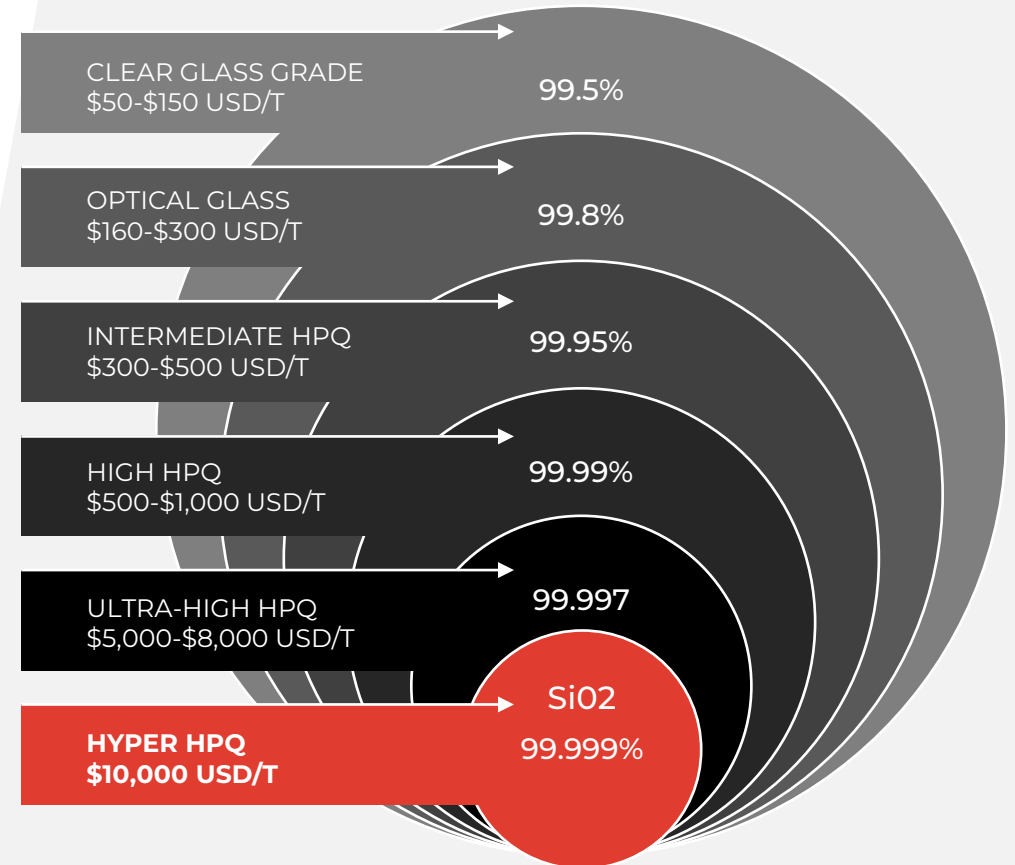
1. <https://www.acumenresearchandconsulting.com/silicon-market#:~:text=The%20Global%20Silicon%20Market%20Size,5.1%25%20from%202022%20to%202030.>

High Purity Quartz

The greater the purity in the ground, less processing required to achieve **higher market value**.

High-purity quartz (HPQ) is primarily used in the manufacturing of silicon metal. It is a base material in the production of semiconductor wafers.¹

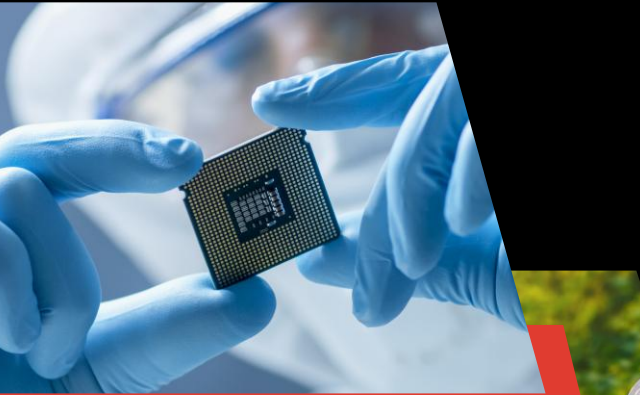
Silicon acts as an insulator at low temperatures and a smooth conductor of electricity at high temperatures, which is why it is used in the production of various semiconductor products such as integrated circuit boards, transistors, microchips, etc. Hence, growing demand for new-generation wafers from the semiconductor industry is anticipated to enhance the HPQ consumption rate.¹



1. <https://www.mordorintelligence.com/industry-reports/high-purity-quartz-market>

Silicon Metal

Transforming supply to meet demand



Silicon metalloid is best known for its semiconductor characteristics and has been vital in the development of solar energy and electronics, driving digital technology.

<https://www.elkem.com/products/silicon/silicon-metalloid/>

A semiconductor does not conduct electricity very well in its pure form but, by adding impurities, as is the case in silicon metalloids, it is possible to influence and control electron transport conductivity.

<https://www.elkem.com/products/silicon/silicon-metalloid/>

Silicon has long held promise as a medium for battery anodes, because it can hold 10 times as many lithium ions by weight as graphite.

<https://spectrum.ieee.org/silicon-anode-battery>

Porsche, Mercedes and GM are already betting on silicon-anode batteries.

<https://www.cnn.com/2023/04/22/why-porsche-mercedes-and-gm-are-betting-on-silicon-anode-batteries.html>

Global Industrial Sand Shortage

- Current global demand of industrial grade sand is 50 billion tonnes annually.¹
- Desert sand is not suitable for construction or high-tech applications.¹
- Land reclamation projects such as the Palm Jumeriah in Dubai are contributing factors to the increase in demand.¹
- Illegal black markets for sand are stripping beaches and rivers causing massive environmental damage.¹

1. Source: UN Environmental Program – Sand and Sustainability: finding new solutions for environmental guidance of global sand resources <https://wedocs.unep.org/20.500.11822/28163>

Ai's Growth And Use In Semiconductors

- **Specialized Chip Demand:** The demand for Artificial Intelligence specific chips is soaring. In 2023, advanced AI chips were selling for approximately US\$40,000 each, with a strong demand for a million or more units. This trend is expected to persist into 2024, with manufacturers struggling to meet the overwhelming demand.¹
- **Potential Revenue Increase:** By harnessing AI, the semiconductor industry could potentially see an increase in earnings before interest of \$85-\$95 billion annually by 2025. This huge potential underscores the importance of integrating AI into semiconductor manufacturing processes.¹
- **The global Artificial Intelligence Chip market generated USD \$14.68 billion revenue in 2022** and is projected to grow at a CAGR of 38.16% from 2023 to 2032. The market is expected to reach USD \$372.01 billion by 2032.²
- **The global semiconductor market size was valued at \$611.35 billion in 2023** & is projected to grow from \$681.05 billion in 2024 to \$2.06 trillion by 2032.³



1. <https://2sourcing.com/blog/the-impact-of-ai/#:~:text=Potential%20Revenue%20Increase%3A%20By%20harnessing,AI%20into%20semiconductor%20manufacturing%20processes>
2. <https://www.thebrainyinsights.com/report/artificial-intelligence-chip-market-13921#:~:text=The%20global%20Artificial%20Intelligence%20Chip,USD%20372.01%20billion%20by%202032>
3. <https://www.fortunebusinessinsights.com/semiconductor-market-102365>

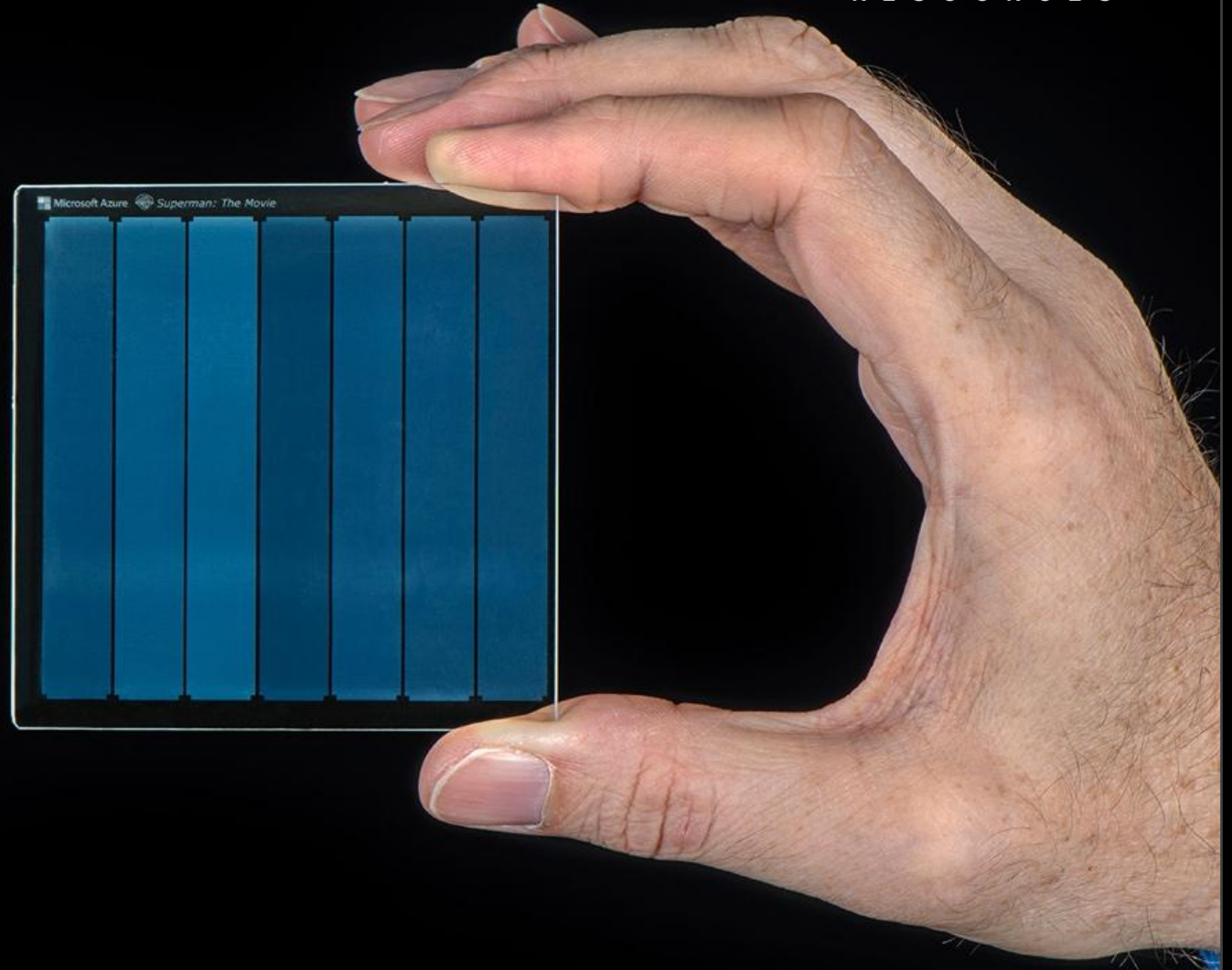
Ai's Growth And Use In Semiconductors

- **The Taiwan Semiconductor Manufacturing Company (TSMC)** makes all of the world's advanced AI chips. Most importantly, Nvidia's GPU's; it also includes the AI chips for Google, AMD, Amazon and Microsoft.¹
- **Modern artificial intelligence simply would not be possible without these highly specialized chips.** Every important AI breakthrough over the past decade, from AlphaGo to AlphaFold to Midjourney to ChatGPT—rely on these chips.¹

1. <https://www.forbes.com/sites/robtoews/2023/05/07/the-geopolitics-of-ai-chips-will-define-the-future-of-ai/>

Microsoft's Project Silica

- Project is designed to move data storage from magnetic based chips to silica-based glass plates.¹
- Resistant to electromagnetic pulses and environmentally friendly due to their extensive lifespan compared to legacy data storage.¹
- Increased lifespan from magnetic based storage (5-10 years) to potentially thousands of years on glass.²
- Increased data storage capabilities of several terabytes. For example, 1.75m songs on a plate the size of a drink coaster.²



1. Source 1: <https://unlocked.microsoft.com/sealed-in-glass/>

2. Source 2: <https://aibusiness.com/verticals/microsoft-wants-to-store-ai-data-using-glass#close-modal>

Purity is Critical

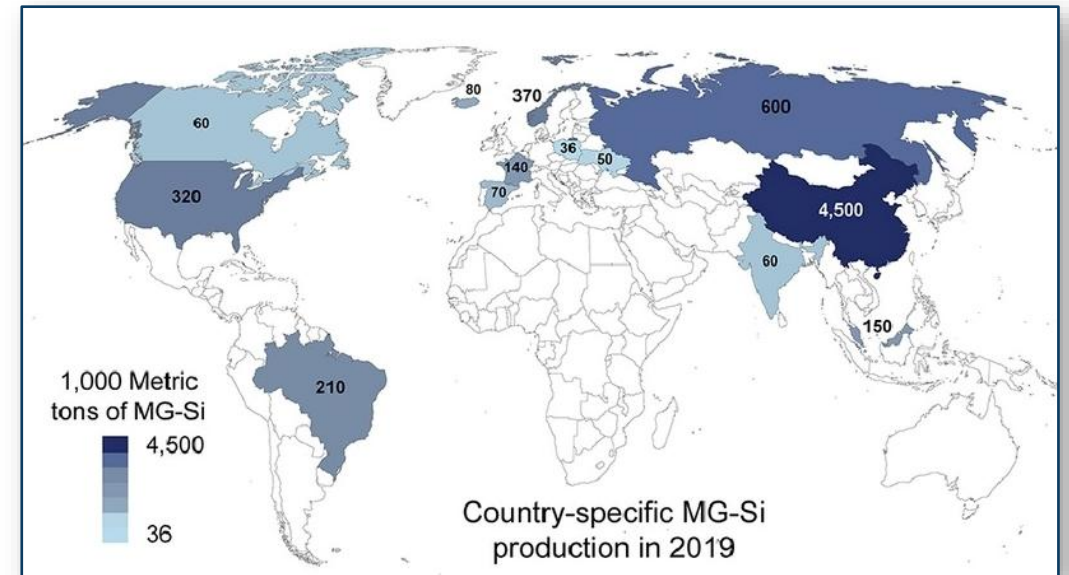
The **solar market** was first to demonstrate commercial value of silica purity.

- **Photovoltaic (PV)** solar panel installations have increased from one gigawatt (GW) in 2000 to 480 GW in 2018 and are expected to reach 8519 GW by 2050. (*International Renewable Energy Agency (IRENA), 2019*)
- **Silicon PV (Si PV)** represents 97% of the current PV market and should remain the dominant technology until 2040, but raw material shortage could reduce the market share of Si PV (*Masson and Kaizuka, 2020*)
- **China consumes silicon commercially but does not dominate resource extraction:** China is the largest MG-Si producer in the world (U.S. Geological Survey (USGS) Mineral Commodity Summaries, 2020), but does not have enough domestic high-quality quartz resources (Zhou and Yang, 2018) and therefore either produce MG-Si from lower-quality resource or import high-quality sands from other countries.

Source: <https://www.sciencedirect.com/science/article/abs/pii/S0921344922000192>

- The global **Crystalline Silicon PV Cells market size** was valued at USD \$52.7 billion in 2022 and is expected to expand at a CAGR of 7.42%, reaching USD \$80.9 billion by 2028.

Source: <https://www.linkedin.com/pulse/crystalline-silicon-pv-cells-market-size-share-growth-wr3se/>
<https://www.marketreportsworld.com/global-crystalline-silicon-pv-cells-market-24822696>



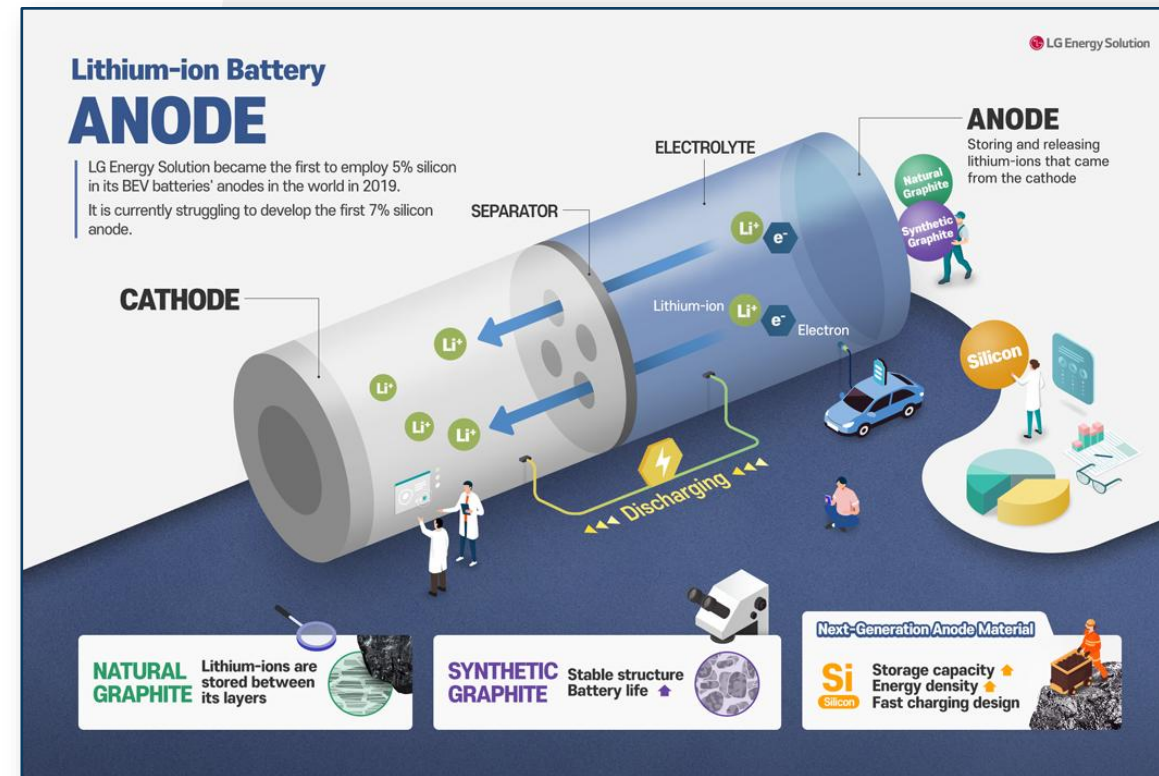
<https://www.sciencedirect.com/science/article/abs/pii/S0921344922000192>

Silicon for Lithium-ion Batteries

- The inclusion of silicon metal into predominantly graphite-derived battery anodes significantly increases the energy density, range and rate of recharge of EV's, creating potential growth opportunities subject to adoption.¹
- Electric vehicles spearhead the **lithium silicon battery** industry, which is expected to rise at a 48.1% CAGR.²
- The **lithium silicon battery** market is predicted to rise through 2034 with United Kingdom at a CAGR of 50.2%, Japan at 49.9%, China at 49.7%, and South Korea at 49.4%.²
- The **lithium silicon battery** market in the United States is estimated to rise at a whopping 49.0% CAGR through 2034.²
- The **global silicon anode battery market** size was valued at \$1.2 billion USD in 2021.²
- It is estimated to expand at a GAGR of 67.5% from 2022 to 2031 and reach \$208.6 billion US by 2031.²

1. <https://cen.acs.org/energy/energy-storage-/Silicon-make-car-batteries-better/102/i4>

2. <https://www.globenewswire.com/news-release/2024/03/12/2844518/0/en/Lithium-Silicon-Battery-Market-set-to-soar-projected-to-hit-US-22-2-billion-in-2024-and-reach-US-1150-0-billion-by-2034-Future-Market-Insights-Inc.html>



<https://inside.lgensol.com/en/2023/10/infographics-12-anode/>



“The adoption of electric vehicles and renewable energy storage solutions are rising in the market. Lithium silicon batteries are expected to play a crucial role in powering the next generation of EVs and grid-scale energy storage systems. The increasing demand for high-performance batteries presents a lucrative opportunity for manufacturers to capitalize on the growing market demand in the clean energy landscape.”

~ Nikhil Kaitwade (Associate Vice President at Future Market Insights, Inc.)

<https://www.globenewswire.com/news-release/2024/03/12/2844518/0/en/Lithium-Silicon-Battery-Market-set-to-soar-projected-to-hit-US-22-2-billion-in-2024-and-reach-US-1150-0-billion-by-2034-Future-Market-Insights-Inc.html>

About the Company



Argyle Resources (CSE: ARGL) is a junior exploration & development company focused on the recent interest and growth of industrial grade silica, graphite and related battery metals for domestic applications.



Silica Projects Quebec

- Pilgrim Island
- Matapedia
- Lac Comporté
- Saint Gabriel

Graphite Project Nova Scotia

- Frenchvale

Silica Project USA

- Bovill, Idaho

Silica Project Special Investigation Team



Professor Marc Richer-Laflèche, PhD., Scientific Head of the Applied Geoscience Laboratory at the INRS Eau Terre Environment Research Centre, will oversee continued research by conducting:

1. High-resolution drone surveys to produce a digital terrain model and orthorectified color imagery in an attempt to define quartzite formations, conduct environmental assessments, and possible quarry design;
2. Petrophysical study of the quartzite and surrounding host rock to determine optimal geophysical exploration tools;
3. Granulochemical and mineralogical studies of the quartzite to determine the industrial potential of the quartzite;
4. Geometallurgical tests with the aim to optimize the silica purification process;
5. Collection of meteorological data to monitor precipitation and environmental considerations and;
6. Installation of wildlife cameras to monitor animal activity within the project footprint.

The National Institute of Scientific Research (INRS) is dedicated exclusively to graduate level research and training. Since its creation in 1969, the institute has built its success on interdisciplinarity, innovation, and excellence.

Argyle Resources will engage a qualified regulatory compliant exploration team to assist with research, exploration, and assessment efforts.



Professor Richer-Laflèche's research focuses on geophysical and geochemical studies and covers various applications from mining geophysics to marine geoscience and even archaeology. The team at the Applied Geoscience Laboratory conducts geophysical studies for mineral, oil and gas exploration, geotechnics, and archaeology. The research facility has the required equipment and expertise for geoelectrical tomography, electromagnetic induction, gravity, radiometric, aquatic, magnetometry, audiomagnetotelluric surveys, and field logistics.

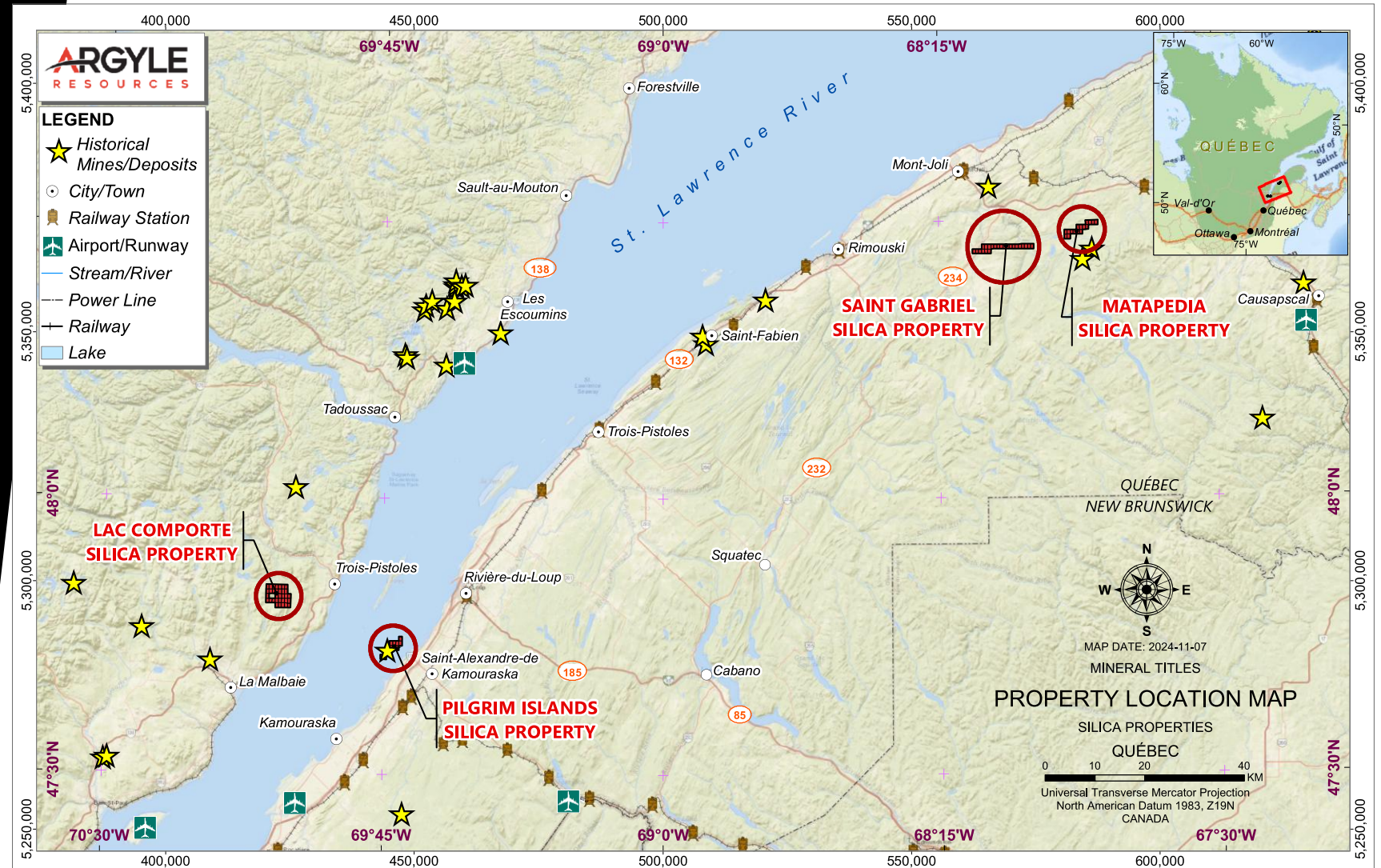


Institut national
de la recherche
scientifique

Properties

- Pilgrim Islands
- Matapedia
- Lac Comporté
- Saint Gabriel

The presence of regional port infrastructure and railways are positive factors in expediting the transport of industrial minerals to the Great Lakes, the eastern USA, or overseas.



Pilgrim Islands Silica Property (Les Pelerins Islands Sector)

Despite the absence of mining exploitation, the region is recognized by sedimentologists for its quartzites, which are particularly well exposed on the Pèlerins (Pilgrim) Islands bordering the coastline of the south shore of the St. Lawrence.

Historical rock sample assays results show SiO2 readings as high as 99.25%.

Source: GM18030 – Geologic Report, Pilgrim Islands Quartzite – K.W. Greig

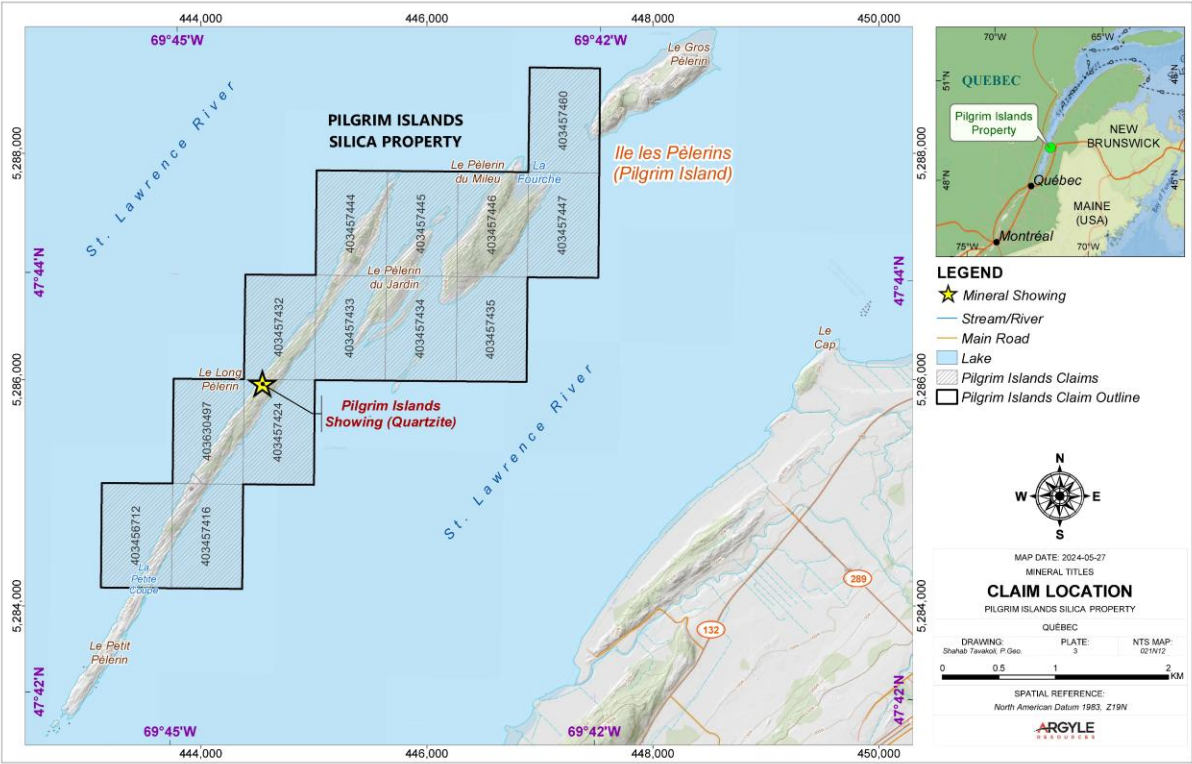
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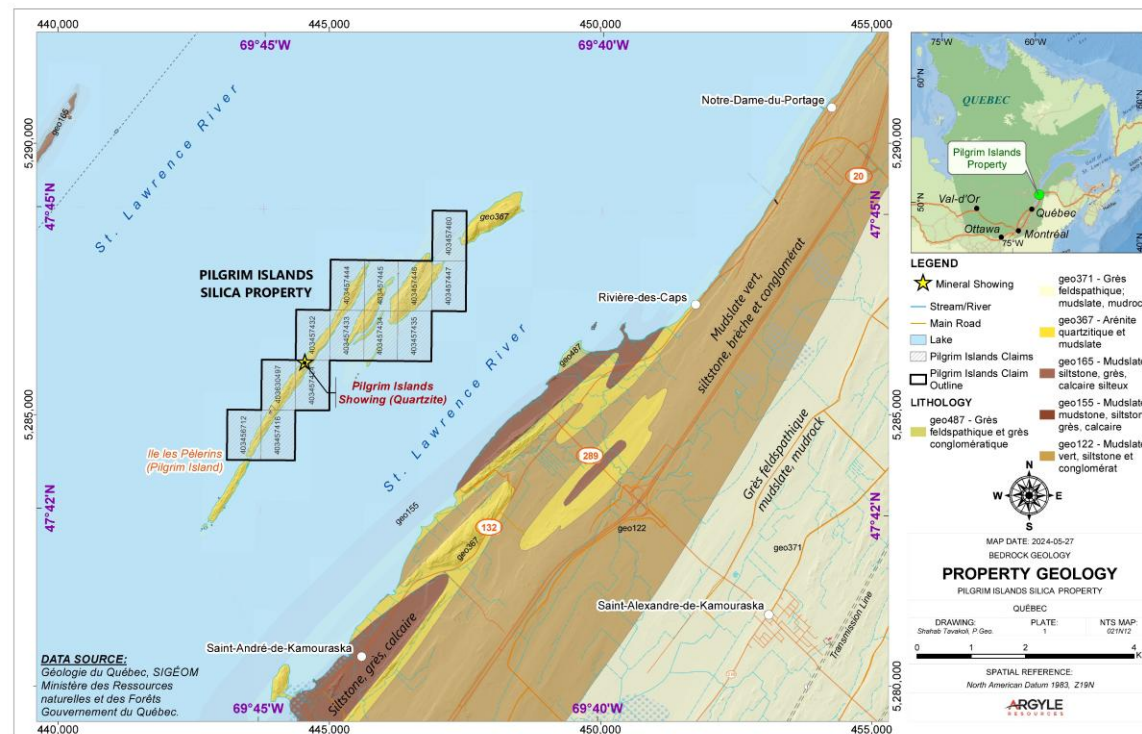
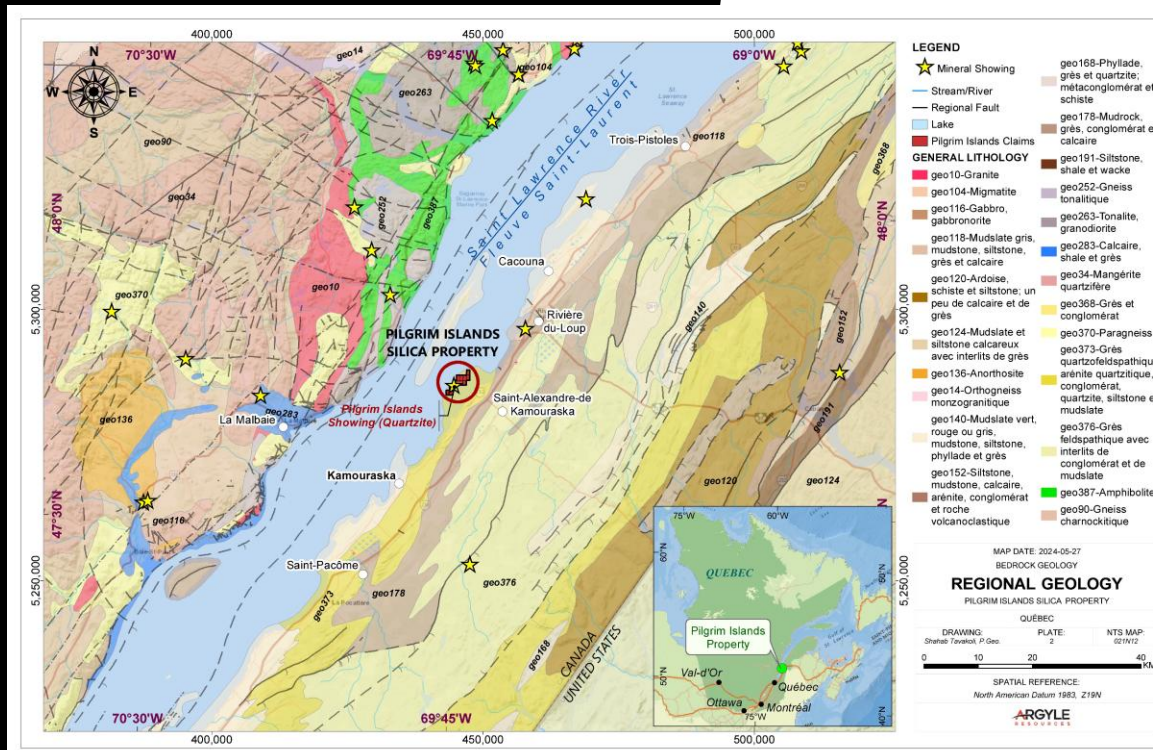
A qualified person has not done sufficient work to classify the historical data as a current mineral resource or mineral reserve; Argyle is not treating the historical estimate as current mineral resources or mineral reserves



Sample ID	SiO2_pct	Fe2O3_pct	Al2O3_pct	TiO2_pct	CaO_pct	MgO_pct	P2O5_pct	As2O5_pct	Length of Sample
P-01	99.25	0.15	0.45	0.04	0.042	0.071	0.005	0.0009	21'
P-02	98.76	0.2	0.77	0.04	0.087	0.14	0.024		15'
P-09	99	0.29	0.64	0.04		0.025	0.007	0.0051	14'
P-14	97.89	0.34	1.02	0.07	0.6	0.086	0.016	0.0006	6'
P-15	98.37	0.33	0.82	0.04	0.34	0.1	0.005	0.012	9'
P-16	99.2	0.2	0.48	0.04	0.014	0.066	0.006		12'
P-17	98.56	0.3	0.64	0.05	0.32	0.13	0.007		6'



Pilgrim Islands Silica Property Geology



Data Source: Geology of Quebec, SIGEOM – Ministry of Natural Resources and Forests

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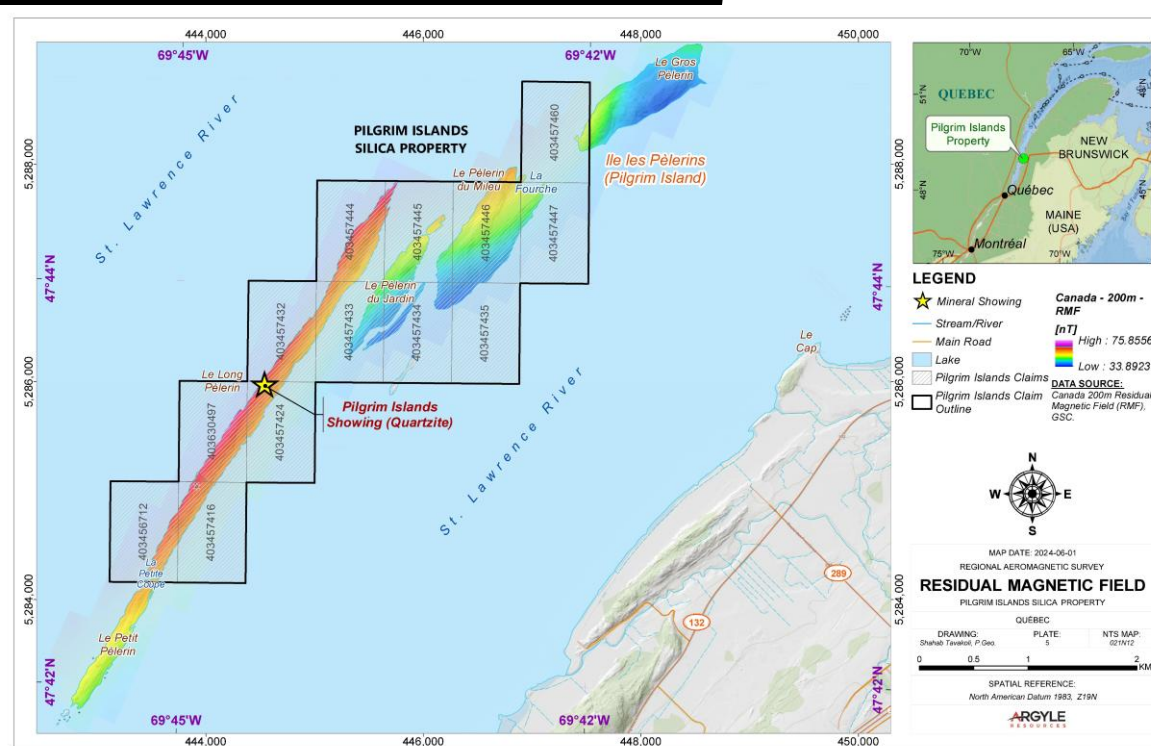
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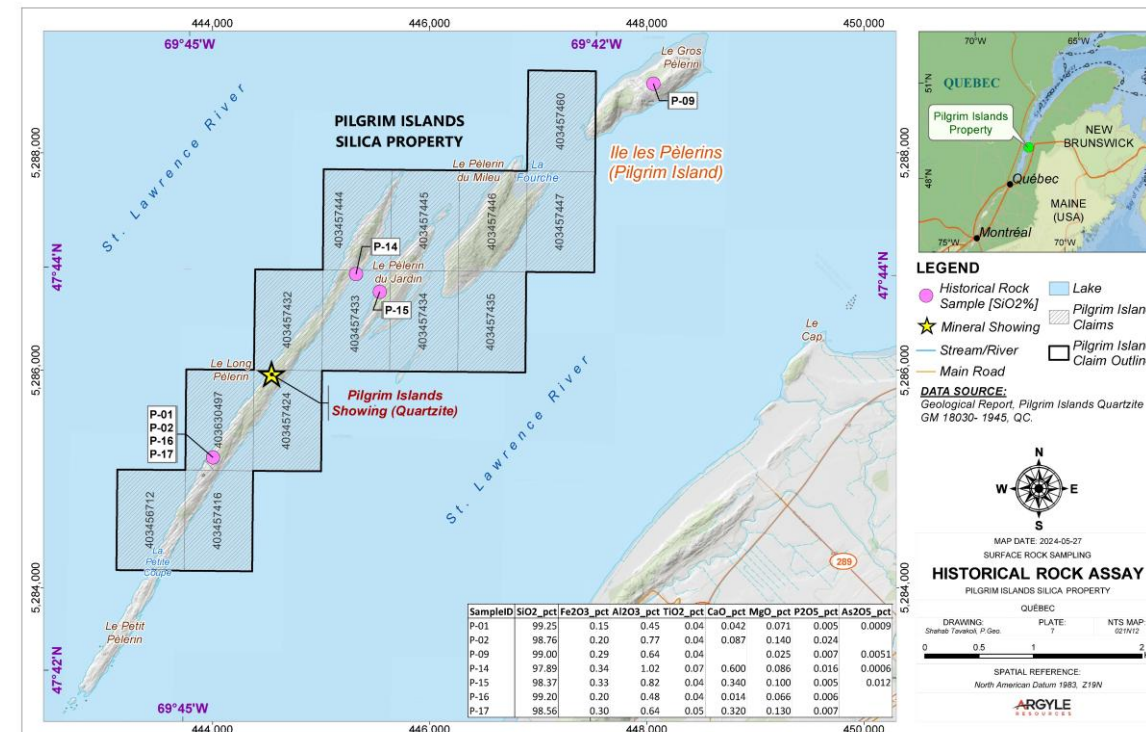
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Pilgrim Islands Silica Property

Geophysics & Sampling



Residual Magnetic Field Map source: Canada 200m Residual Magnetic Field (RMF) GSC.



Historical Rock Assay map source: GM18030 – Geologic Report, Pilgrim Islands Quartzite – K.W. Greig

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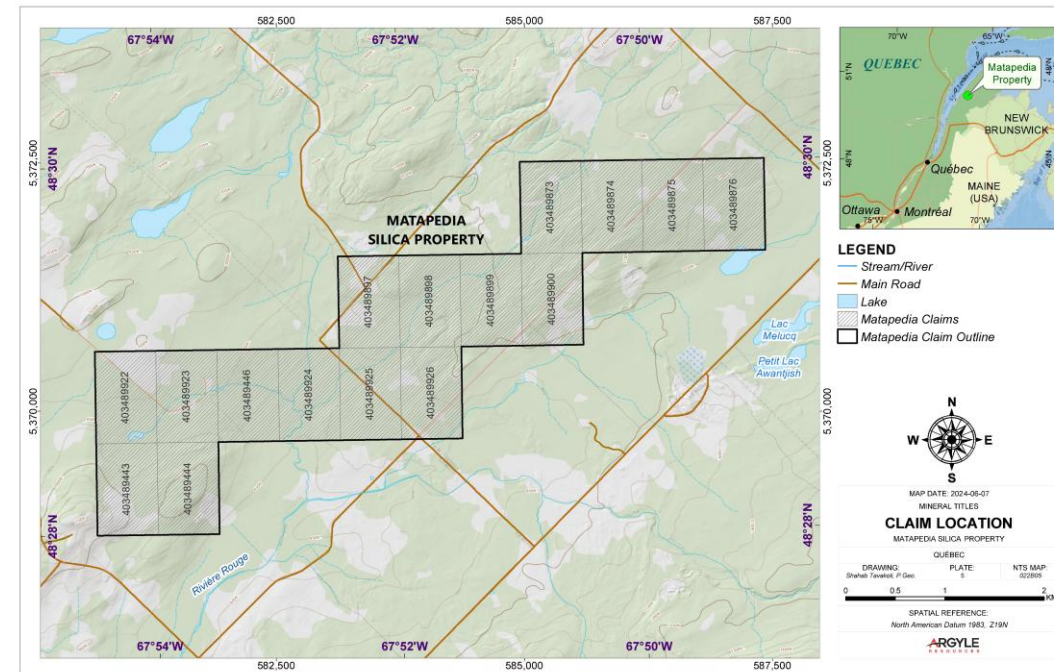
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Matapedia Silica Property (St-Moise, Quebec)

Located 36 km from the coastal village of Grand-Métis, the property is included in a region of forest land. The silica showing sector also contains limestone which is exploited in the region by a small quarry.

The siliceous units of the Val-Brillant Formation rest above the Orignal Formation which is recognized in Lower St-Lawrence and Gaspesia for containing the most aluminous argillite in Quebec.¹ The presence of these three minerals (silica-limestone-aluminous claystones) in the St-Moise region could be highly strategic for certain industrial applications.

1. GM695509 Geologic report, Tiphane, M. (1975) DP323 and Quebec Ministry of Natural Resources.



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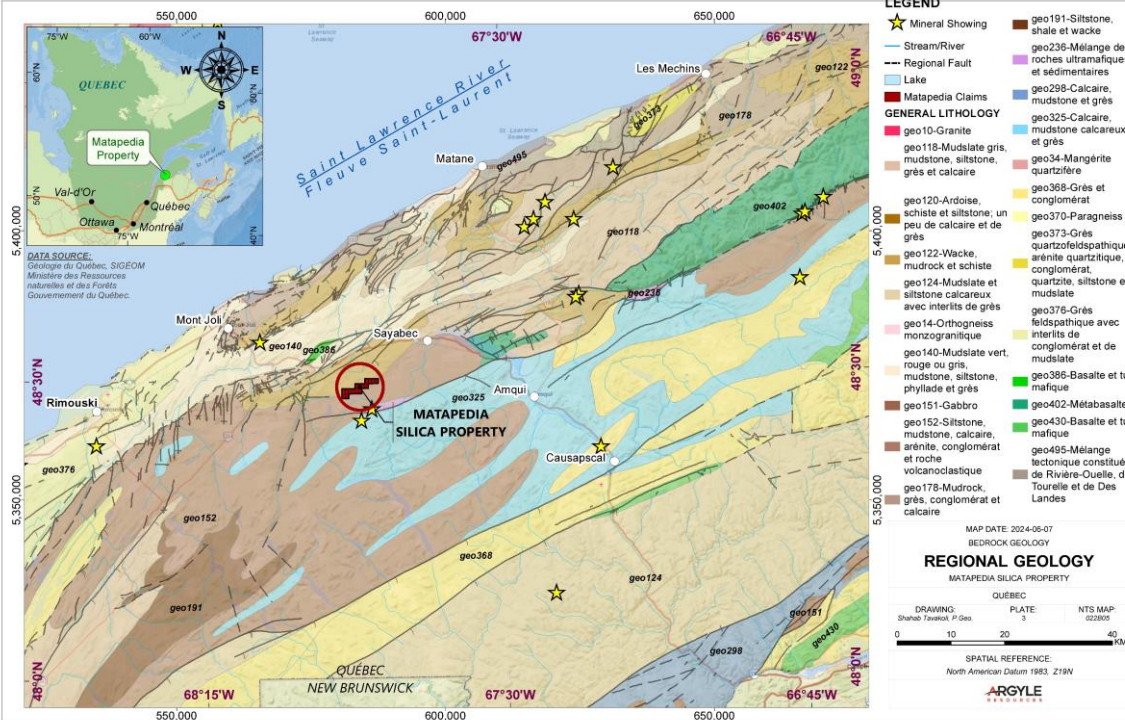
DISCLAIMERS:

Argyle cautions investors it has yet to verify this historical exploration data

A qualified person has not done sufficient work to classify the historical data as a current mineral resource or mineral reserve; Argyle is not treating the historical estimate as current mineral resources or mineral reserves



Matapedia Silica Property Geology



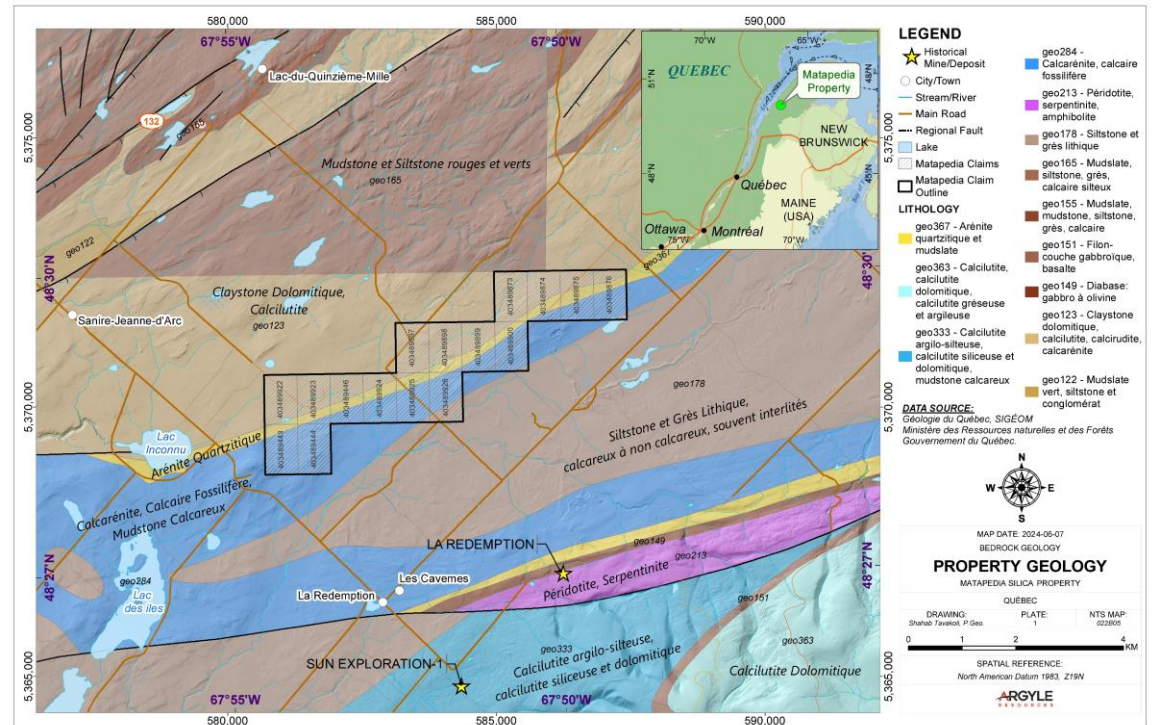
Regional Geology Map source: Geology of Quebec, SIGEOM – Ministry of Natural Resources and Forests

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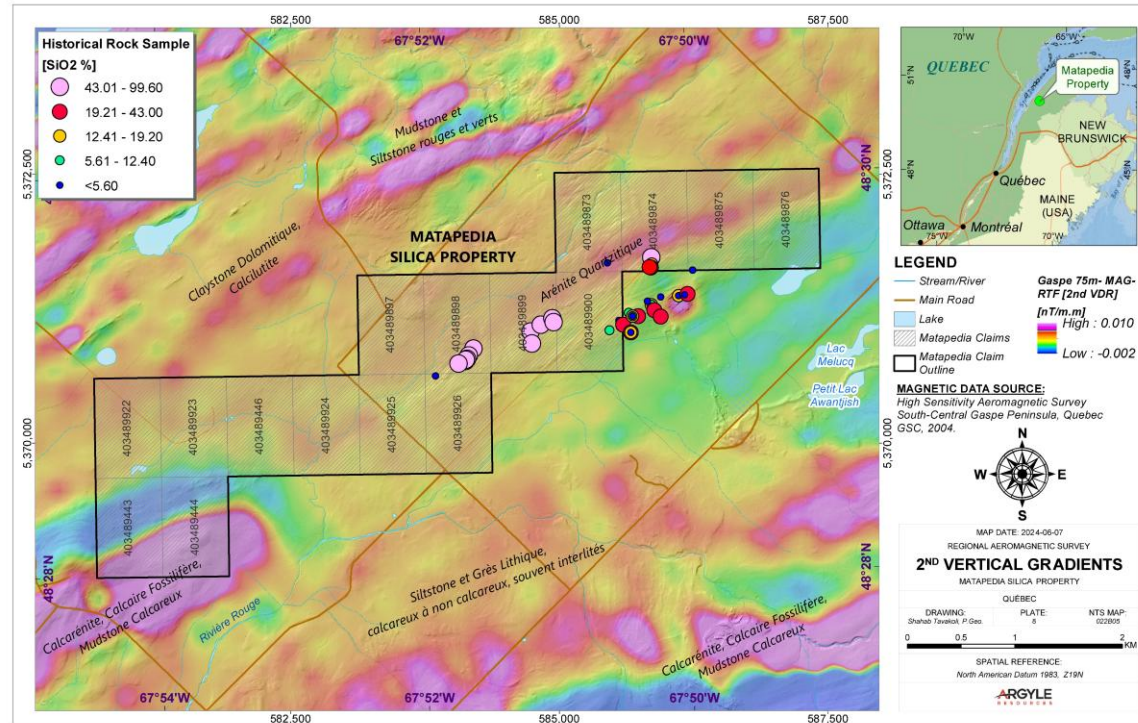
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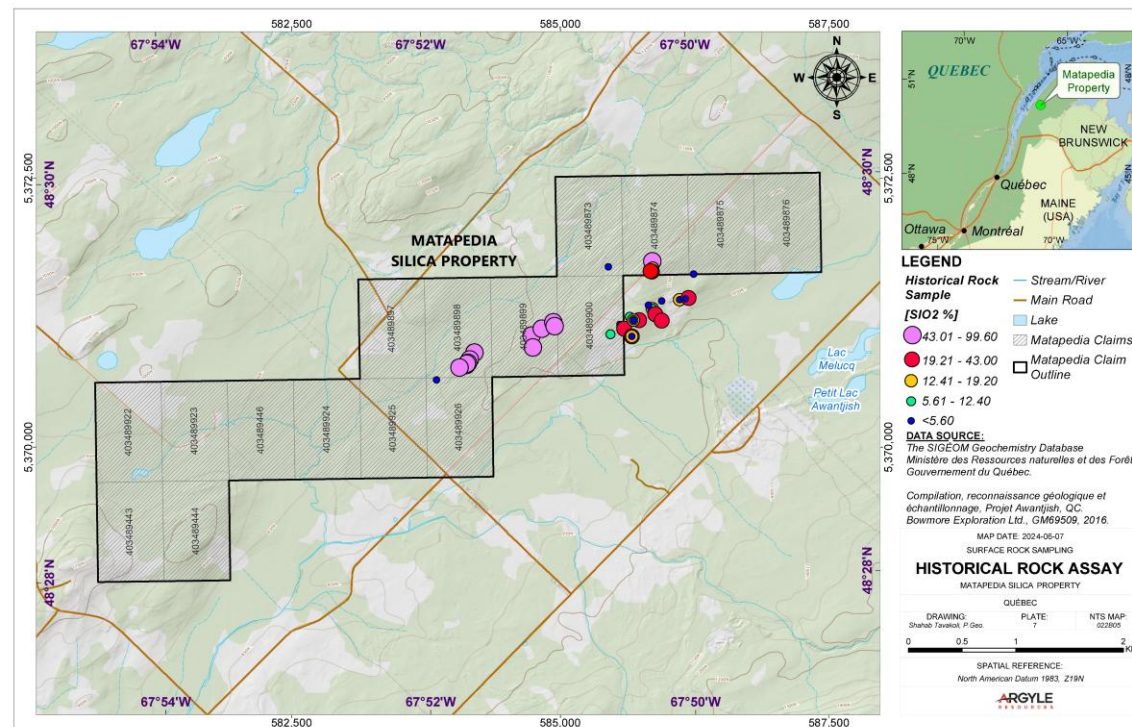
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Matapedia Silica Property Geophysics & Sampling



2nd Vertical Gradients map Source: High sensitivity aeromagnetic survey South-Central Gaspé Peninsula, Quebec – GSC 2004



Historical Rock Assay map Source: Compilation Geological Reconnaissance and Sampling – Project Awantjish, QC, Bowmore Exploration Ltd – GM 69509, 2016

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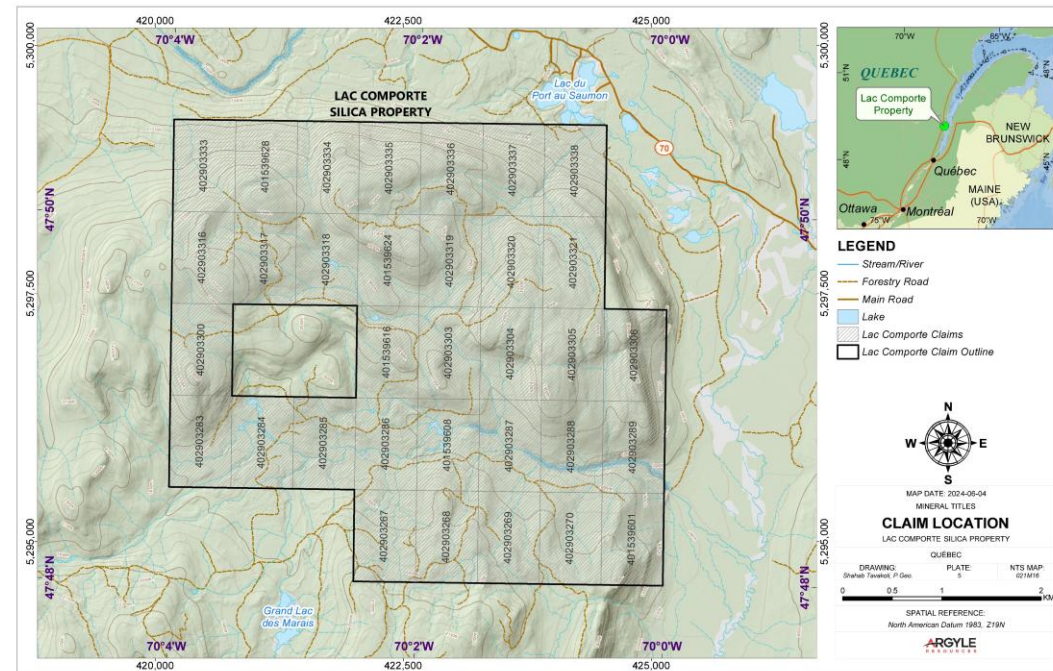
NOTE: Mineralization hosted on adjacent or nearby properties is not necessarily indicative of mineralization hosted on the Matapedia Property

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Lac Comporté Silica Property (La-Malbaie, Charlevoix, QC)

The Lac Comporté project is located on the north shore of the St. Lawrence River in the La-Malbaie area. Access to the site is by provincial and forest roads from route 138 following a forest gravel road for 11 km.

A nearby company (SITEC Inc.) currently operates a large silica mine in the northern sector of St-Urbain (Charlevoix) and, depending on demand, exports silica to Europe via the port of La-Malbaie or by trucking or train for silica exports to the USA.



Source: Geology of Quebec, SIGEOM – Ministry of Natural Resources and Forests

QUALITY ASSURANCE

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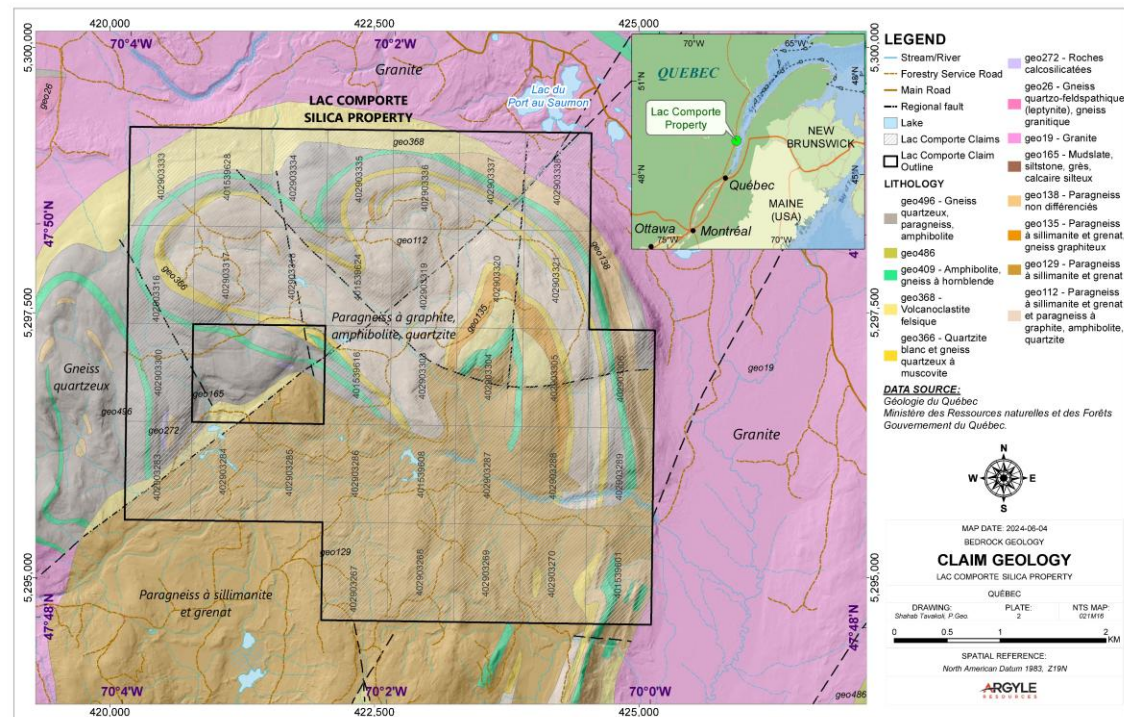
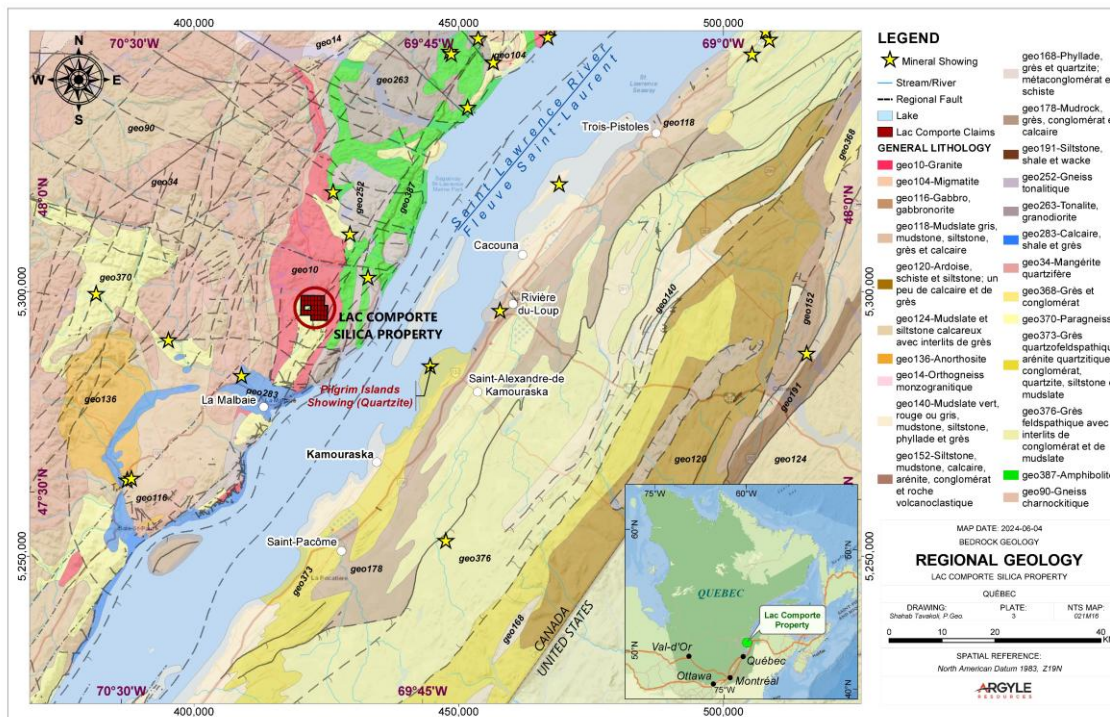
DISCLAIMERS:

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Lac Comporté Silica Property Geology



Data Source: Geology of Quebec, SIGEOM – Ministry of Natural Resources and Forests

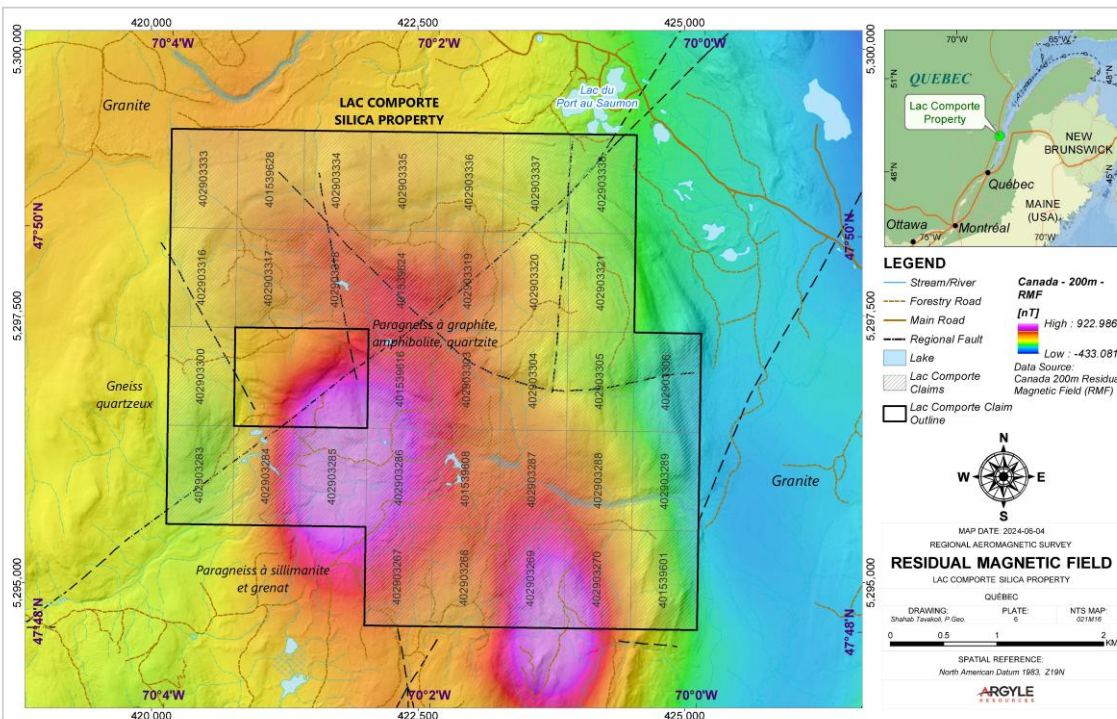
George M. Yordanov, OGQ., P.GEO., an Independent Qualified Person as such term is defined by National Instrument 43-101

DISCLAIMERS:

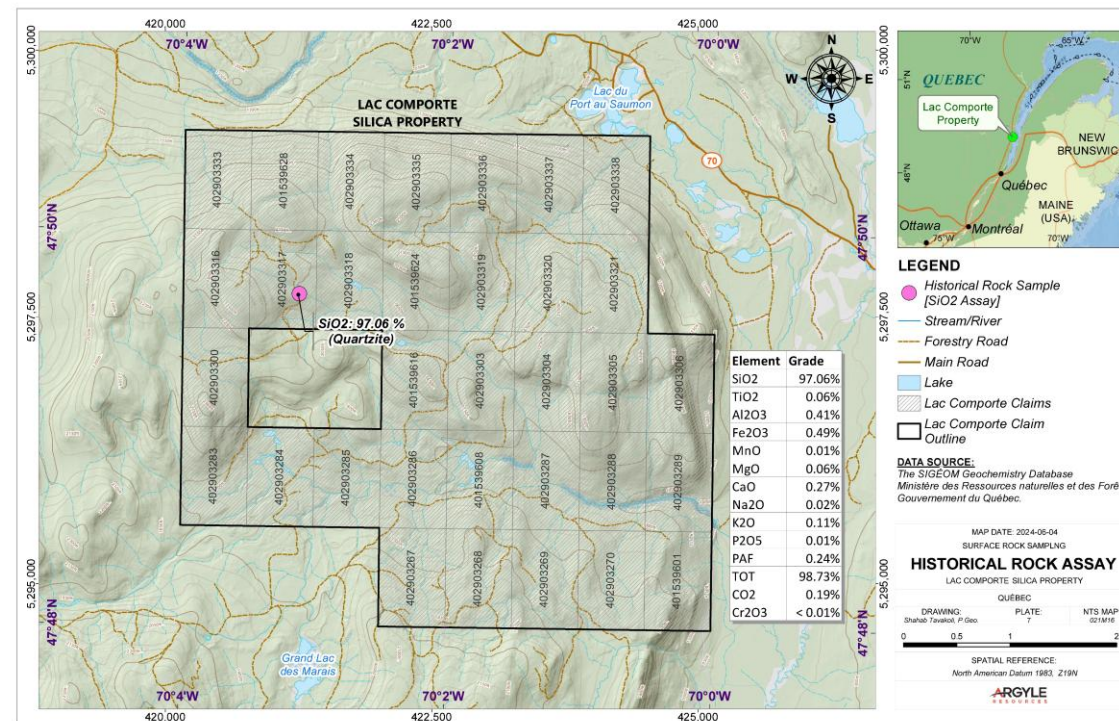
Argyle cautions investors it has yet to verify this historical exploration data

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Lac Comporté Silica Property Geophysics & Sampling



Residual Magnetic Field Map source: Canada 200m Residual Magnetic Field (RMF) GSC.



Historical Rock Assay map source (1): The SIGEOM Geochemistry Database – Ministry of Natural Resources and Forests – Government of Quebec

Historical Rock Assay map source (2): GM71500 - Visit to the Mont Grand-Fonds quartzite property - Daigle, S., 2018

Data Source: Geology of Quebec, SIGEOM – Ministry of Natural Resources and Forests

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Saint Gabriel Silica Project (Bas-Saint-Laurent Region, Quebec)

The Saint Gabriel Silica Project consists of 23 contiguous mining claims totalling 1,312.90 ha. located in Bas-Saint-Laurent Region, Quebec. The Project is 364 km northeast of Quebec City with gravel road access off Highway QC 234.

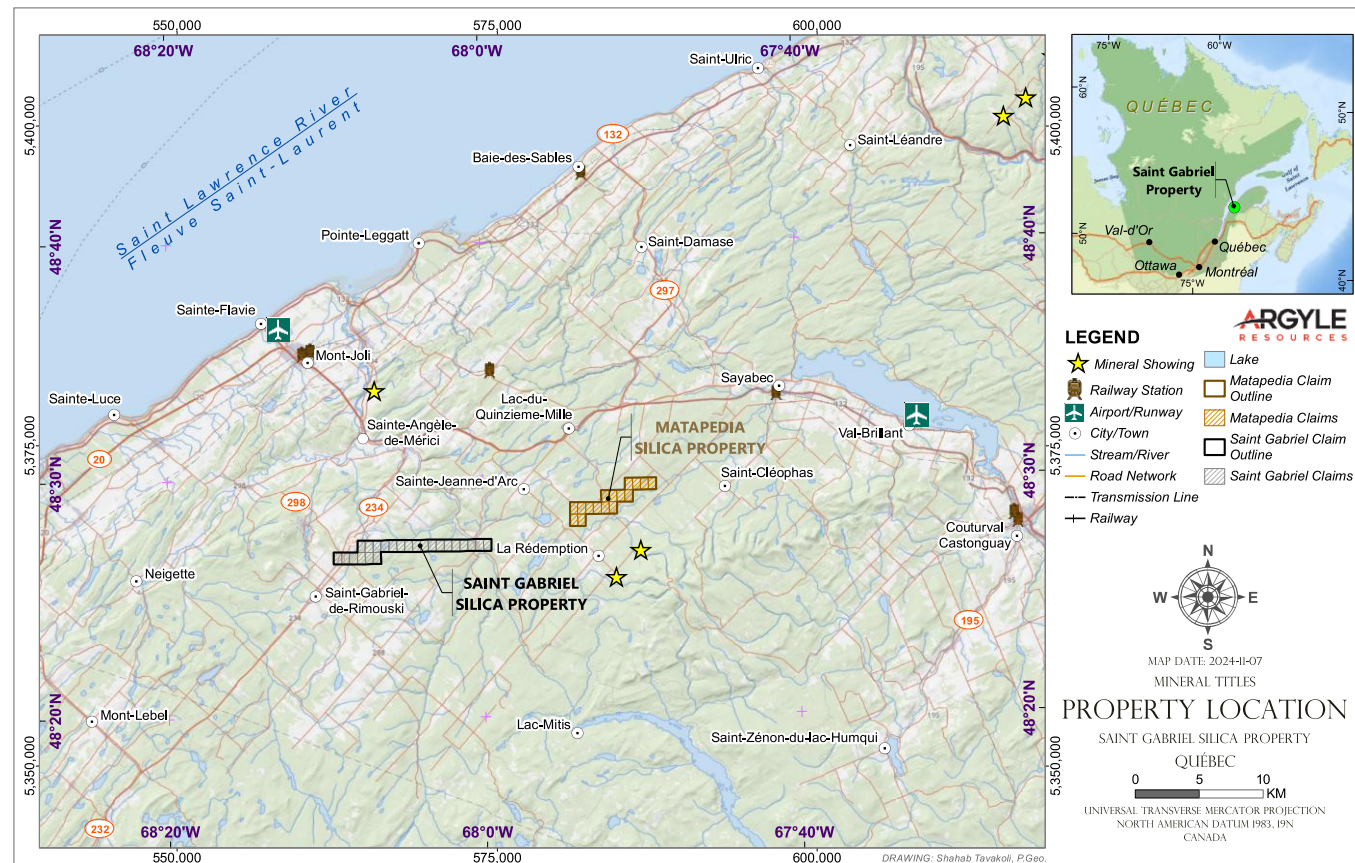
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Exploration History – Summary of Activities 1960-2023

- 1960s: Initial geological mapping by Quebec Ministry of Mines
- 1980s-1990s: Sampling and drilling programs
- 2023: Sampling by Noront Group; samples sent to ALS Laboratory in Mississauga

1991 Drill Program

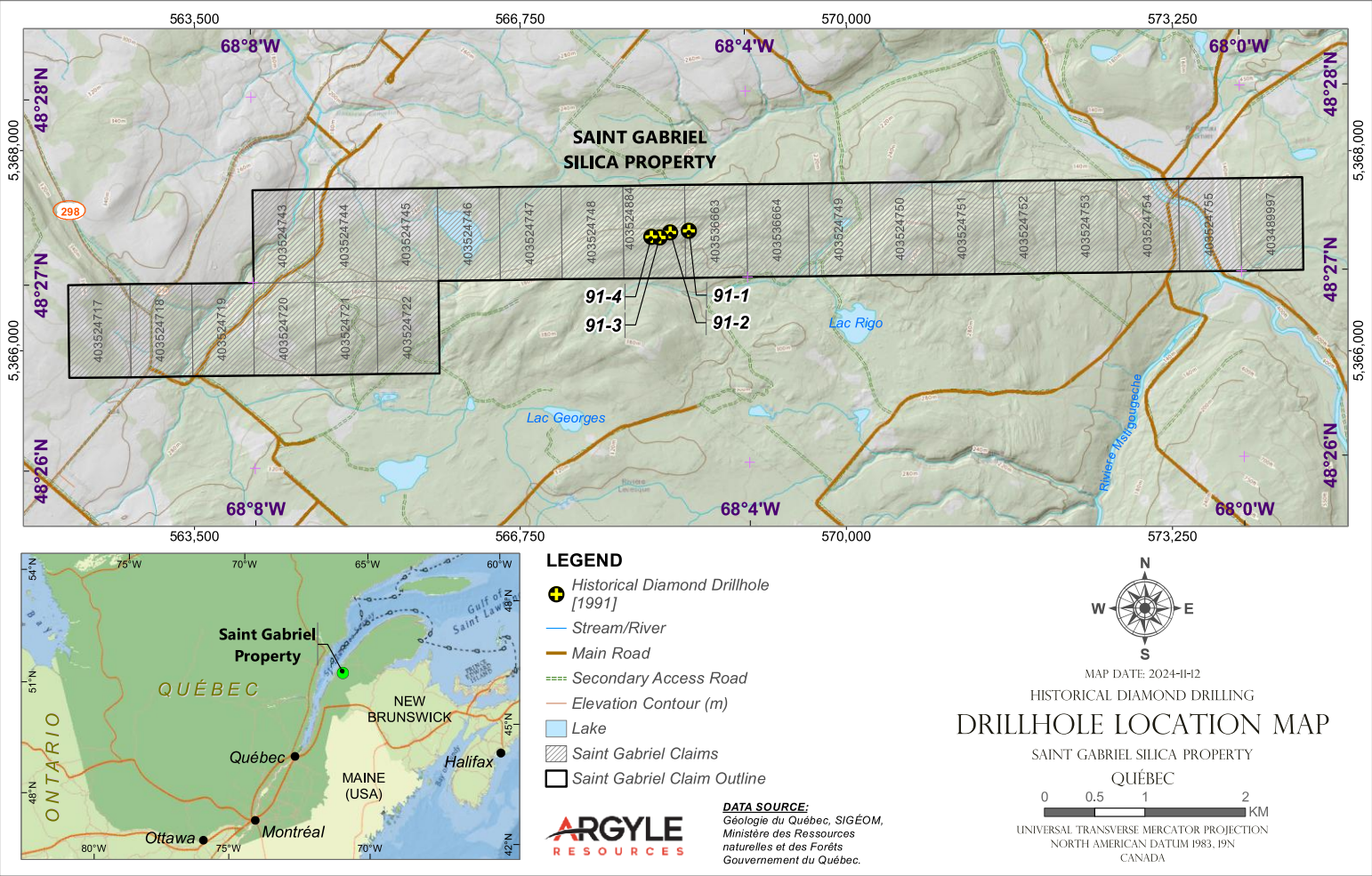
The map below depicts the location of prior drilling activities in respect of the Saint Gabriel project, carried out in 1991 by Andre Liboiron.

Saint Gabriel Silica Project

(Bas-Saint-Laurent Region, Quebec)

Commentary from Argyle CEO, Jeff Stevens :

"The Bas Saint Laurent region has a long history of promising geological exploration dating back to the 1960s, when the Quebec Ministry of Mines first mapped the area's quartzite formations. As we move into 2025, our planned Phase 1 exploration program at Saint Gabriel will focus on identifying potential high-purity silica zones to assess future development potential. This will include field-based XRF analysis to assess silica purity in real time, systematic sampling across the entire property with corresponding GPS coordinates and XRF data, laboratory verification of silica purity, and a 150kg bulk sampling program targeting two high-purity zones identified through chip sampling results."



QUALITY ASSURANCE

George M. Yordanov, OGQ., P.GEO., an Independent Qualified Person as such term is defined by National Instrument 43-101, has reviewed and approved the scientific and technical content of this document.

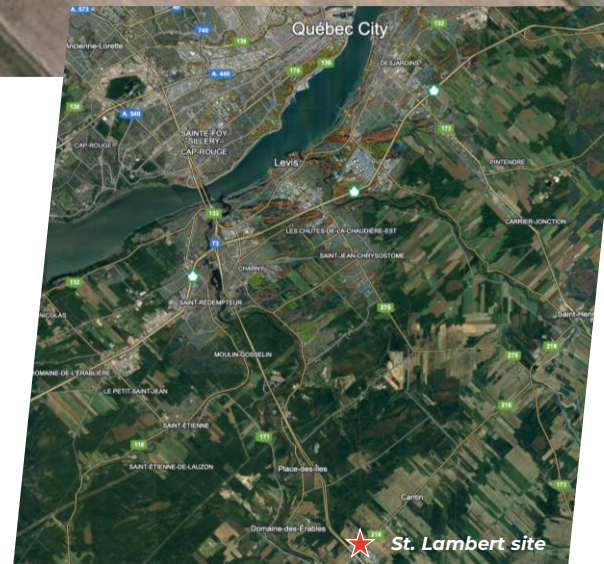
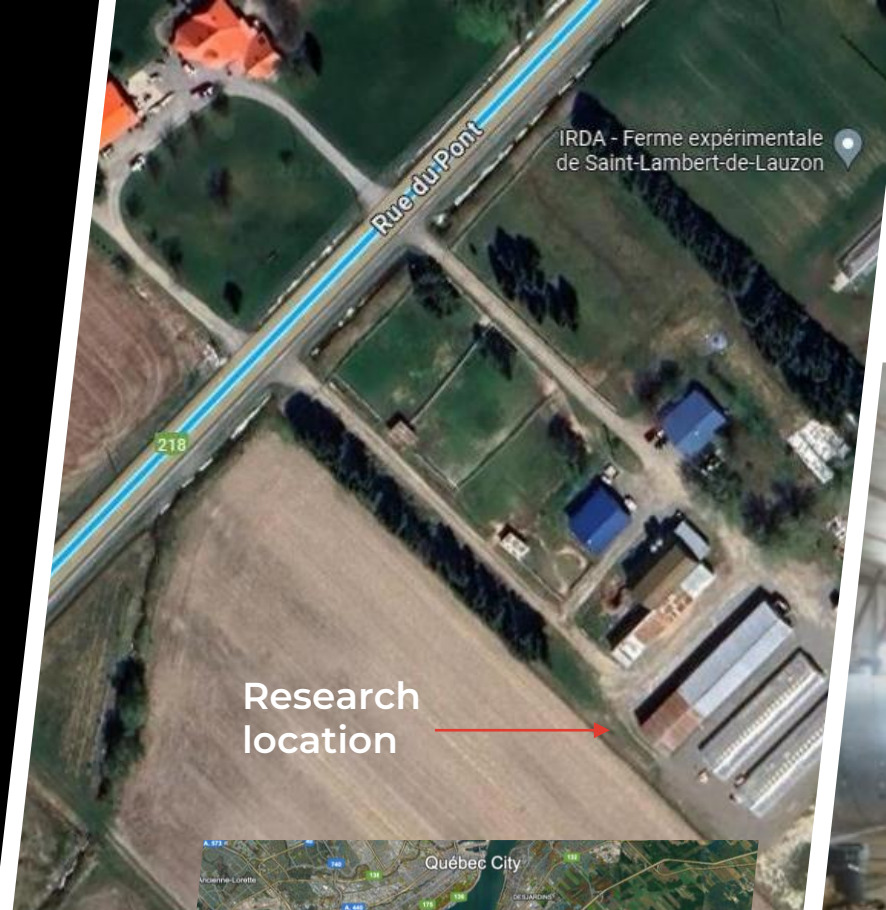
Logistics & Operations

Proposed INRS field research location

The site is large enough to store quartzite samples and field equipment. Possibility of converting part of the facility into a small preparation lab (4-season).

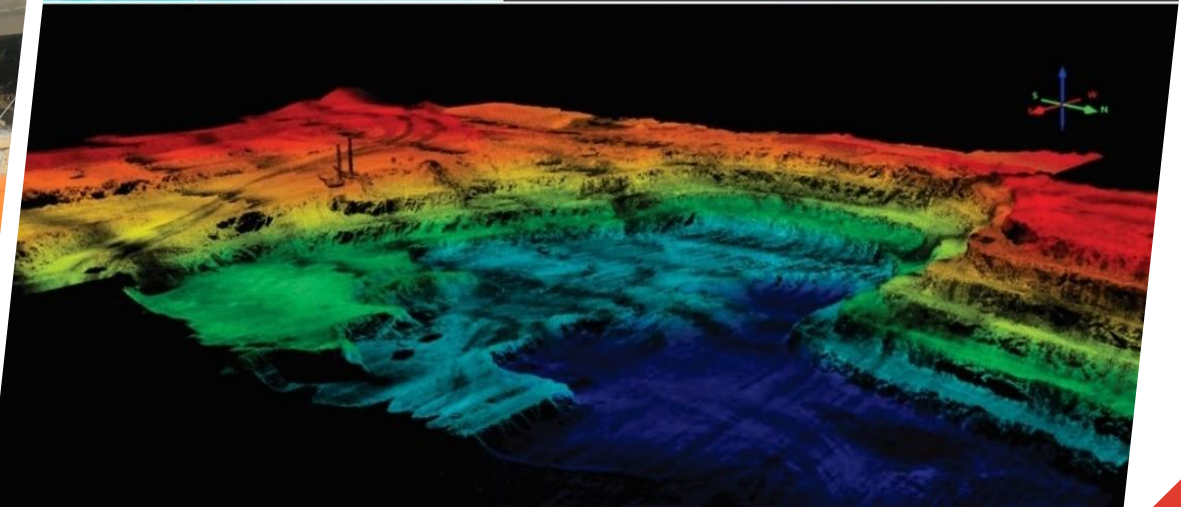
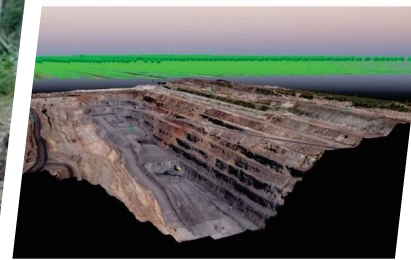
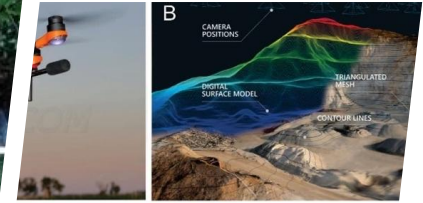
The location is large enough to store the mobile crushing and pulverizing equipment.

Dependent upon the volume of activity, the facility offers adequate office space and accommodation for the Argyle field team.



Field Work

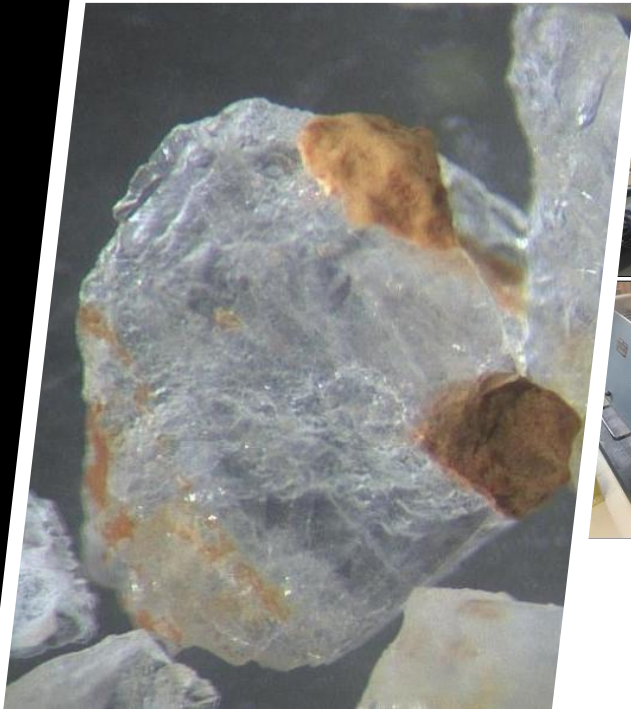
- ✓ Remote sensing
- ✓ Aerial drone surveys
- ✓ Mechanized stripping and water cleaning in Appalachian forest areas
- ✓ Quartzite crushing & grinding



ARGYLE
RESOURCES

Onsite Lab Preparation

- ✓ Large volume preparation
- ✓ Magnetic separation
- ✓ Density separation
- ✓ Microscopic & petrographic studies
- ✓ Granulochemical study



Bovill Silica Project (Idaho, USA)

- 22 mineral lode claims totalling 184 hectares
- 3km west of Bovill, Idaho
- Accessible via HWY 8 as well as forest service roads

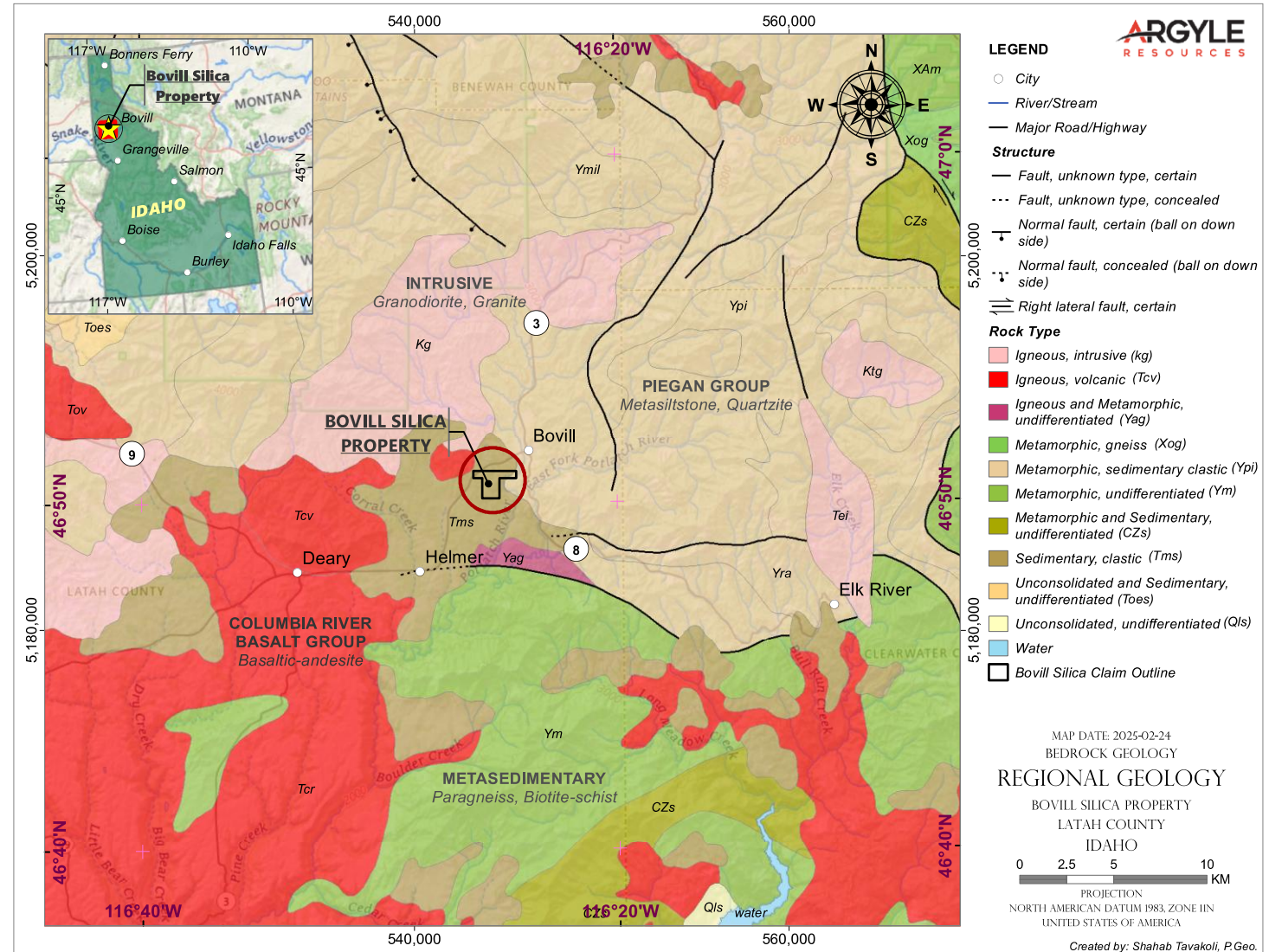
QUALITY ASSURANCE

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Bovill Silica Project USA

Geology

Mining activity within the Bovill, Idaho region:

1. Bovill Kaolin Project¹

- Commodities: Kaolin, Halloysite, Quartz, K-feldspar
- Use: Used in ceramics, paints, plastics, and high-tech applications like nanotechnology.

2. Bovill Clay Deposit²

- Commodities: Kaolin, Halloysite
- Use: Primarily for ceramics and industrial applications.

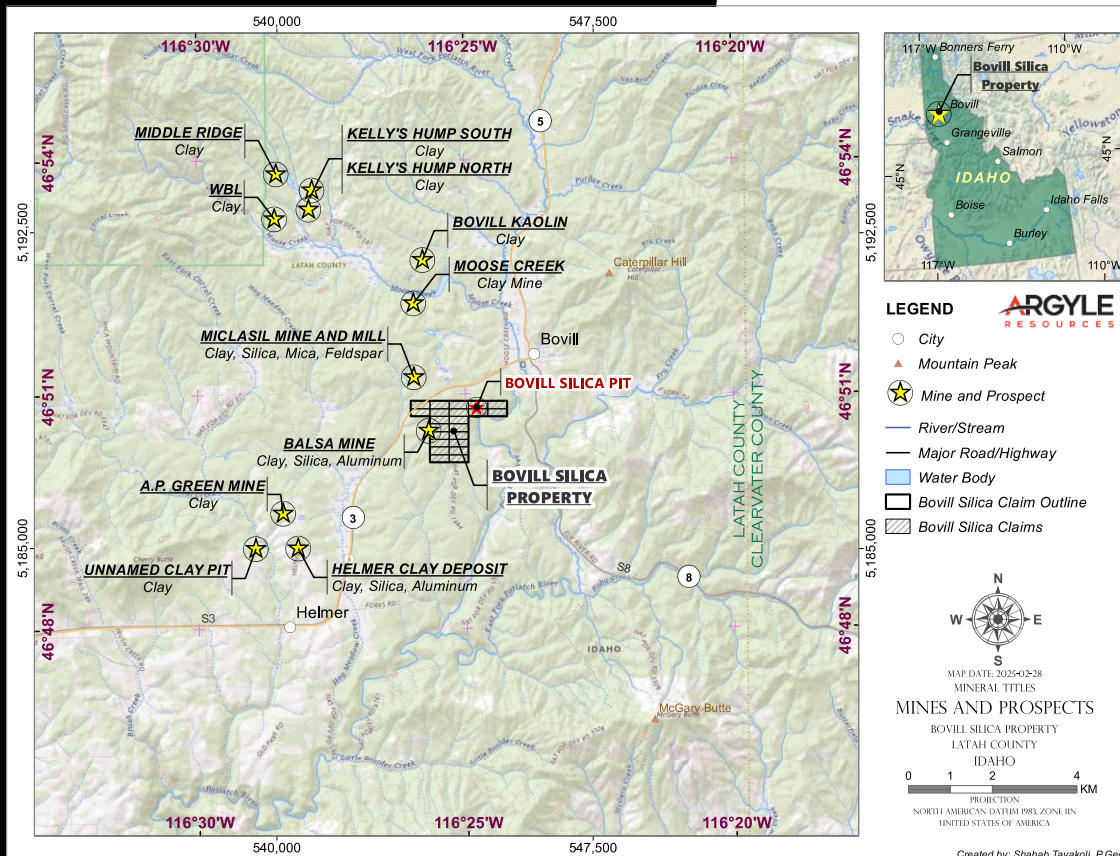
3. Ruby Creek Mine³

- Commodities: Gold
- Use: Gold extraction for commercial and industrial use.

4. Feather Creek Prospect⁴

- Commodities: Gold, possibly associated minerals
- Use: Gold mining, exploration potential for other minerals.

These mines and prospects primarily focus on kaolin-related clay deposits and gold, with kaolin and halloysite being notable for their industrial and technological applications.



- <https://www.mining-technology.com/projects/bovill-kaolin-project-idaho/>
- <https://westernmininghistory.com/mine-detail/10119938/>
- <https://westernmininghistory.com/mine-detail/10072079/>
- <https://westernmininghistory.com/mine-detail/10096415/>

Graphite

The 'other' Battery Metal

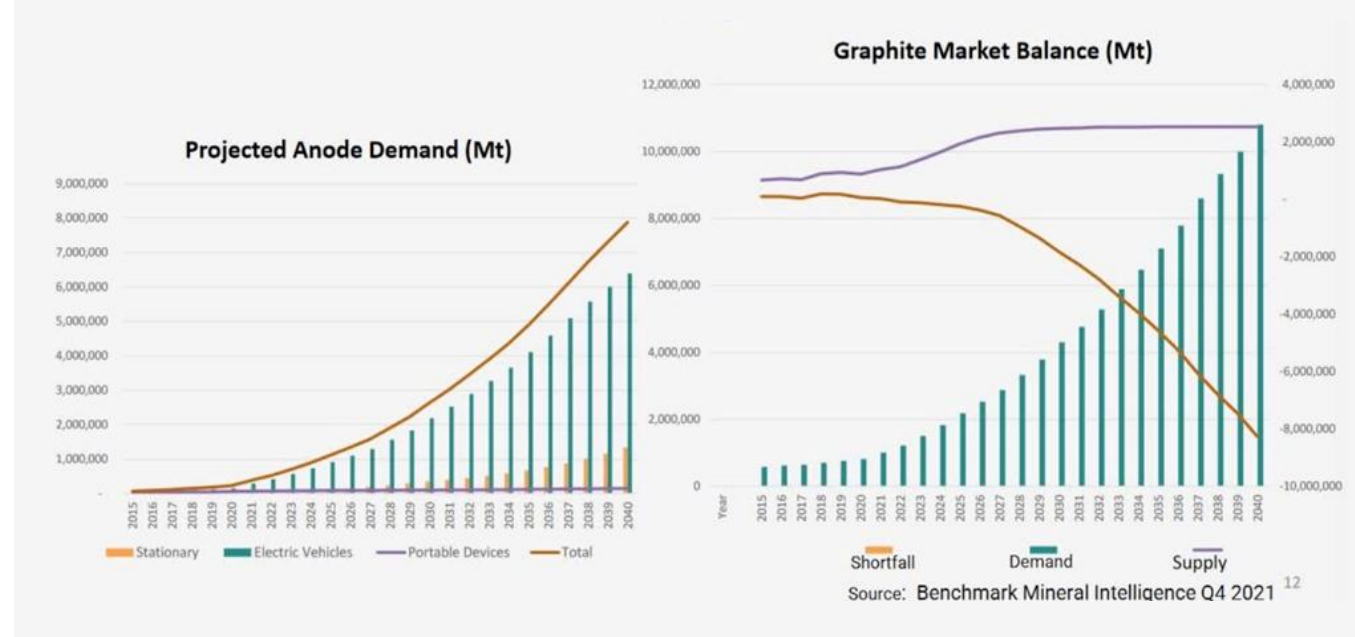


494% GROWTH
Projected Graphite
Demand by 2050
--World Bank Group, 2020

25X HIGHER
Supply Target
by 2040 (Paris Accord)
--IEA Report, 2020

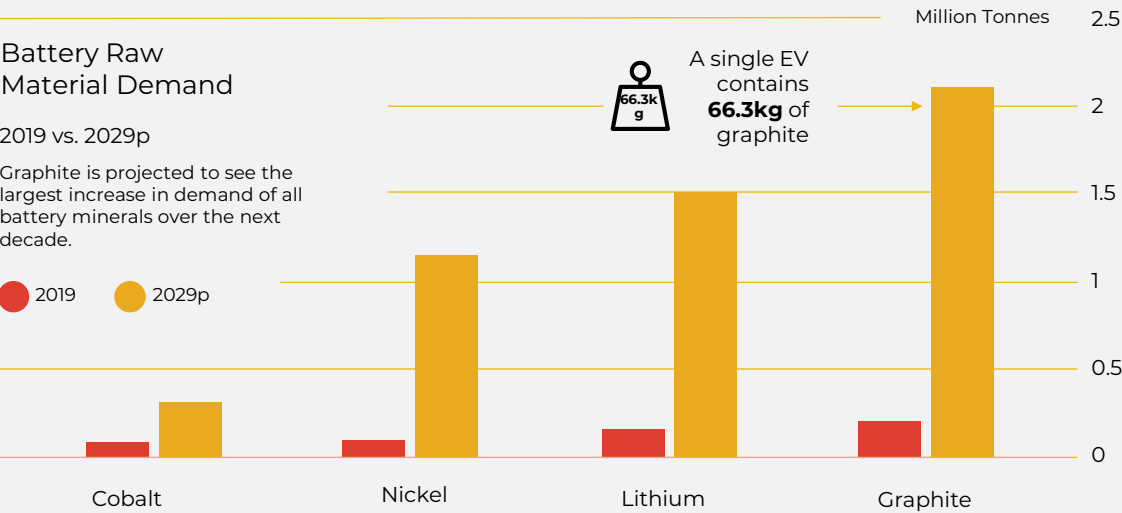
ZERO Production
Current US
Graphite Industry
--US Geological Survey, 2021

Graphite shortage starting in 2022
Shortage to grow to 8 Million Tonnes by 2040



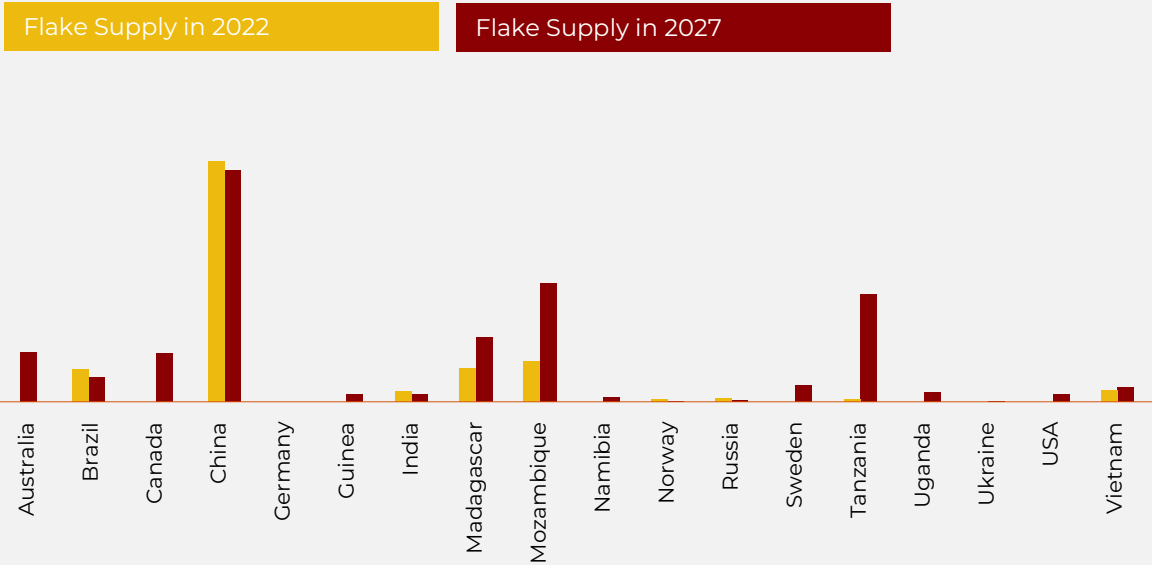
Natural Graphite Supply & Demand

Natural Graphite Demand THE MATERIAL FOR A GREENER ECONOMY



Source: <https://elements.visualcapitalist.com/natural-graphite-the-material-for-a-green-economy/>

Natural Graphite Production



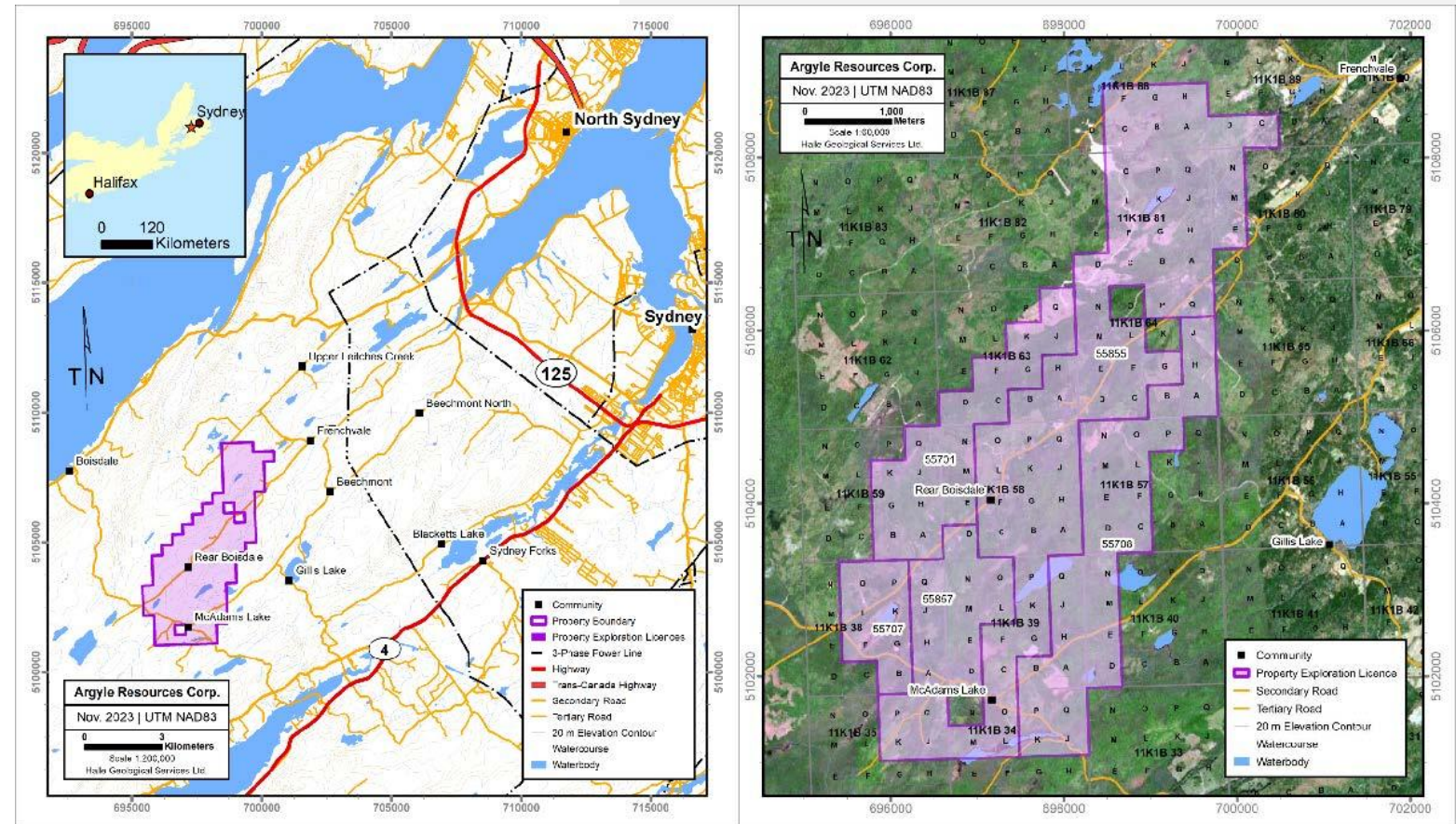
Source: Benchmark Mineral Intelligence

Frenchvale Graphite Property

Nova Scotia, Canada

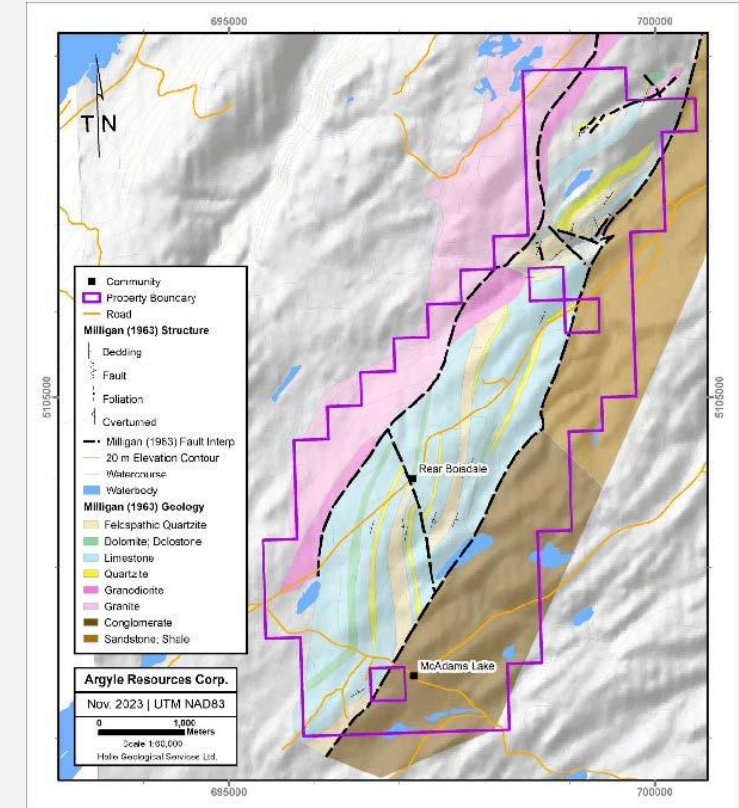
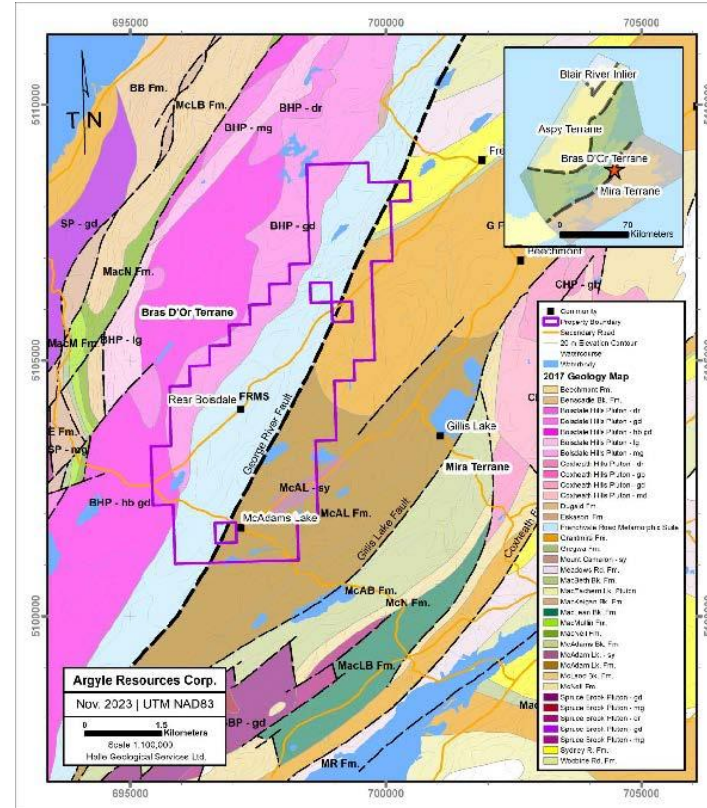
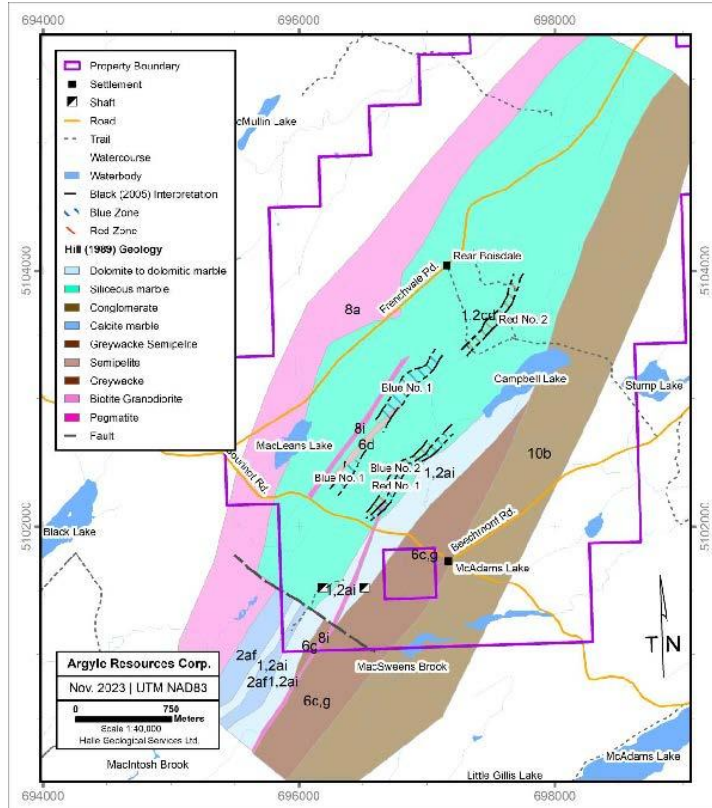
The Frenchvale Graphite Property is located in northeastern Nova Scotia on the island of Cape Breton and is 19 kilometres west-southwest of Sydney.

- The Property contains several varieties of metallic skarns in multiple locations, some of which have undergone moderate development, as well as numerous graphite occurrences at various stages of exploration.
- The main graphite occurrence (the “Main Zone”), approximately 800 metres west of Campbell Lake, was drill-tested in 2023 with assays returning graphite grades as high as 6.0% over 0.17 metres, and a separate composited grade of 4.3% over 3.3 metres.
- Drill hole FV-10-01 from 2010 exhibits a 36.4 weight percent of medium and coarse graphite flakes within a 1.06-meter interval which assayed 4.76% graphite.
- Approximately 20% of graphite from submitted samples can be considered fully liberated (free) upon grinding, with calcite accounting for the largest proportion of minerals externally-associated to graphite.
- The Property is at early stages of exploration and holds potential for additional discovery.



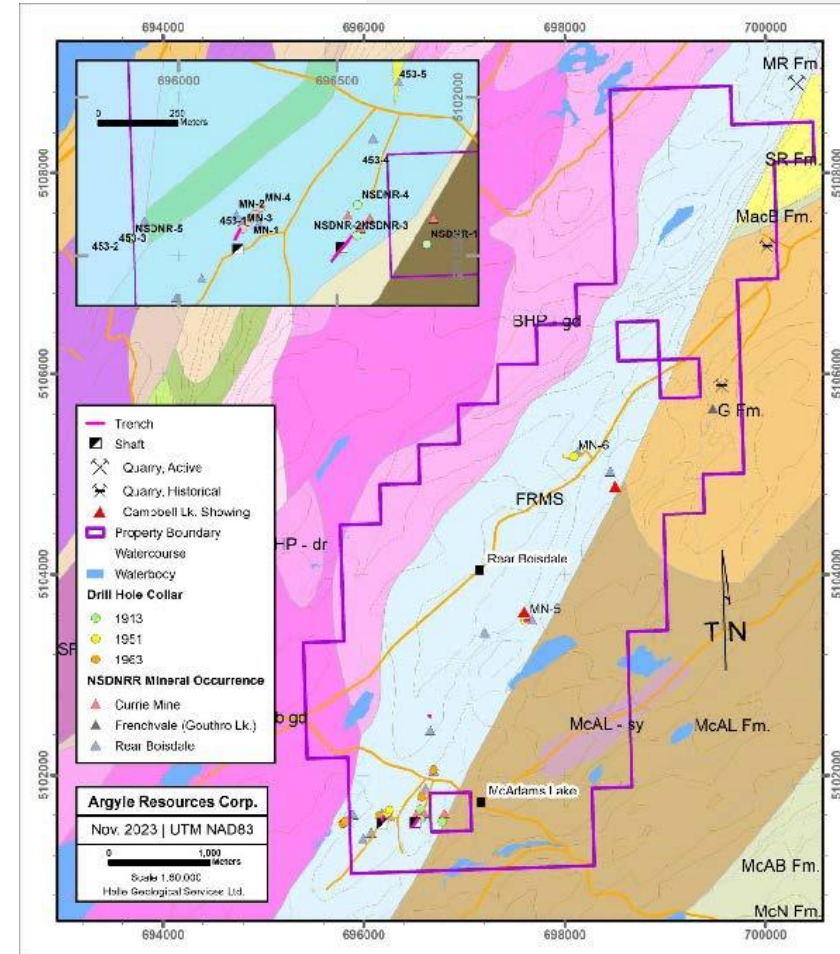
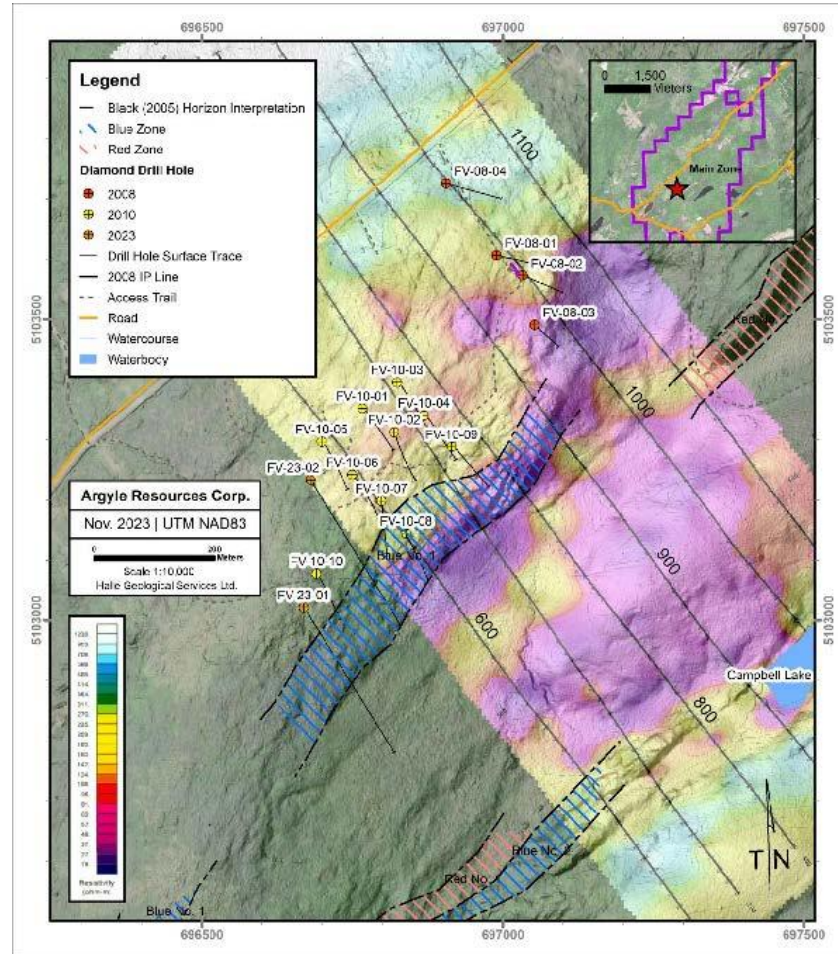
Data Source: Argyle Resources NI 43-101 Technical Report, Dec 11, 2023, by Halle Geological Services Ltd.

Frenchvale Graphite Property Geology



Data Source: Argyle Resources NI 43-101 Technical Report, Dec 11, 2023, by Halle Geological Services Ltd.

Frenchvale Graphite Property Geophysics & Historic Drilling



Data Source: Argyle Resources NI 43-101 Technical Report, Dec 11, 2023, by Halle Geological Services Ltd.

Leadership



Jeff Stevens / CEO & Director

Mr. Stevens is a seasoned capital markets and deal structuring professional. He has taken multiple companies public via RTO's on various Canadian stock exchanges and has advised on numerous M&A opportunities. He has held both, senior officer and director roles with public companies in various industries. Mr. Stevens is currently CEO of Psyched Wellness Corp., a Canadian health supplements company dedicated to the production and distribution of artisanal, medicinal mushrooms and associated packaged consumer goods in the United States. In addition to Mr. Steven's experience as an operator, he also brings 20 + years of professional experience in the Canadian Capital Markets. Throughout his career, he was the head of two Sales and Trading desks and was instrumental in building the Canadian operations for a US-based Investment Bank in Toronto. Jeff's experience was largely focused on capital raising for micro-cap and small-cap companies in Canada. His client base included Institutional Money Managers, Hedge Funds, Mutual Funds, and Family Offices in Canada, the US and Europe.

Bob Krause / Director

Mr. Krause has over 30 years of industry experience as a geologist having worked extensively in North, Central and South America with an emphasis on geochemistry and exploration geology in, epithermal gold deposits, disseminated gold deposits, porphyry copper-gold deposits, and magmatic nickel-copper-PGE deposits. Mr. Krause is an exploration and project geologist having served as vice-president of exploration for numerous junior mining companies on three continents, also holding numerous directorships of public mining companies.

Leadership

Trevor Nawalkowski / Director

Mr. Nawalkowski is a business builder and entrepreneur, specializing in corporate business process and procedure for public or private companies. His roles have included corporate governance oversight, corporate secretary/legal review, business development and senior management in oil and gas, automation systems, digital communications and more. In addition, he has 15+ years of management experience in the Investor and Public relations procedure and process business.

Marianne Richer-Laflèche / Director

Ms. Richer-Laflèche is a lawyer at BCF LLP, Montréal office, where she specializes in mergers and acquisitions, investment funds, corporate governance and commercial contract drafting. Prior to joining BCF, Ms. Richer-Laflèche worked at another major Canadian law firm, where she was seconded on two occasions to clients in the financial services and consulting engineering sectors. Ms. Richer-Laflèche is a graduate of Université Laval and is currently completing a master's degree at the London School of Economics and Political Sciences. She has acted as director and corporate secretary for several organizations and is a member of the board of various private organizations and public companies.

Aman Gill, BBA / Director

Mr. Gill is a seasoned capital markets and finance industry professional, having spent the majority of his career at Scotiabank Private Wealth and before that at BMO Nesbitt Burns as a wealth management advisor. He was an instrumental part of these advisory teams and has managed a robust book of high-net-worth individuals and groups ranging from Indigenous groups, multinational companies and family offices; further enhancing his skills in investment strategies and capital markets. Aman holds a Bachelors in Business, which has equipped him with a comprehensive understanding of financial principles and market dynamics. His business background has allowed him to build deep long-standing relationships with investment firms and banks globally.

Capitalization

Shares	39,937,014
Warrants	13,096,634
Options	2,100,000
RSU	1,300,000
Fully Diluted	56,433,648



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 PH. +1 (647) 400-8494

Date of formation	16 Mar 2023
Exchange/Ticker	CSE: ARGL OTC: ARLYF FSE: ME0
Jurisdiction where formed	Canada, British Columbia
Financial year end:	February 28
NAICS 212299	All other metal ore mining
CUSIP	04031A
ISIN	CA04031A1021
Transfer Agent	Odyssey Trust Company
Legal Counsel	Gowling WLG (Canada) LLP
Auditors	A. Chan and Company LLP



THANK YOU

ARGYLE

R E S O U R C E S

CSE: ARGL/OTC: ARLYF/FES: ME0

High Purity Silica Potential

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Calgary, AB T2P 2Y9 Canada

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