

Committed to Building a More *Resilient World*

August 15, 2023

An aerial photograph showing a dense urban area on the right side, characterized by numerous high-rise buildings and a grid-like street pattern. On the left side, there is a large, lush green forested area. The text is overlaid on the left side of the image, primarily over the forest.

Albemarle leads the world in transforming essential resources into critical ingredients for mobility, energy, connectivity and health.

We partner to pioneer new ways to move, power, connect and protect with people and planet in mind.

We are committed to building a more resilient world.

Why Lithium?

Lithium is a critical element for the manufacture of lithium-ion batteries to support clean energy. It also is an important material for items we use in our everyday lives including pharmaceuticals, ceramics and glass, greases, batteries for our tablets and phones, as well as toys and appliances.

Lithium is at the heart of electronic mobility, portable medical devices, and renewable energy and is helping us to transition to a cleaner future.



Lithium powers our everyday lives



Electric vehicles



Bluetooth headphones and smartwatches



Medical devices, such as pacemakers



Household smoke detectors

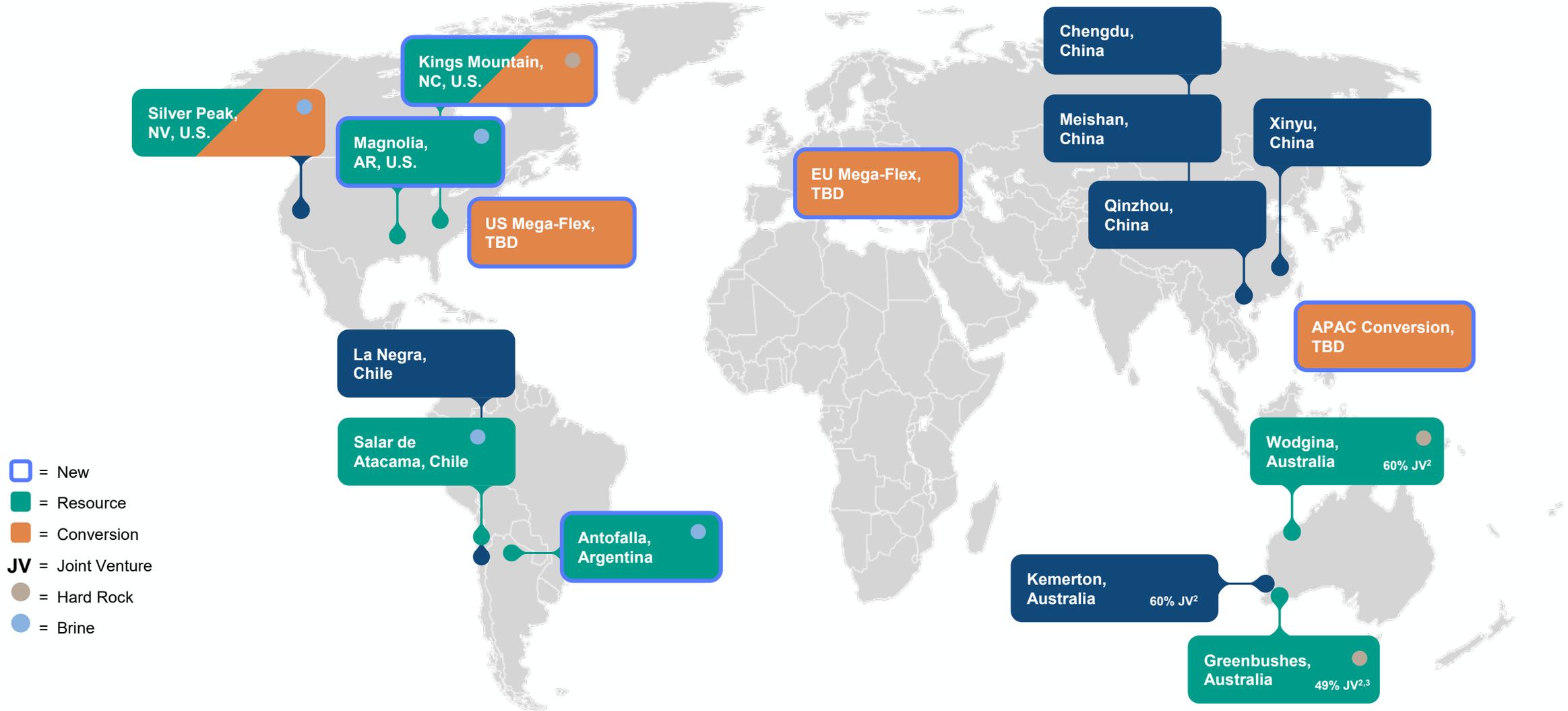


Tablets



E-bikes

Expanding Global Footprint – Strong Presence in Major Markets¹



¹ Map is representative of Albemarle's global reach; not inclusive of all the company's sites ² Joint venture ownership interest as of 1/23/2023

³ Joint venture ownership interest, with right to 50% of the offtake

Kings Mountain, NC

Kings Mountain Site



● Mine

● Hydroxide

● R&D Dry Room

● Advanced Lithium Metals

● Specialty Salts

● Primary Metals

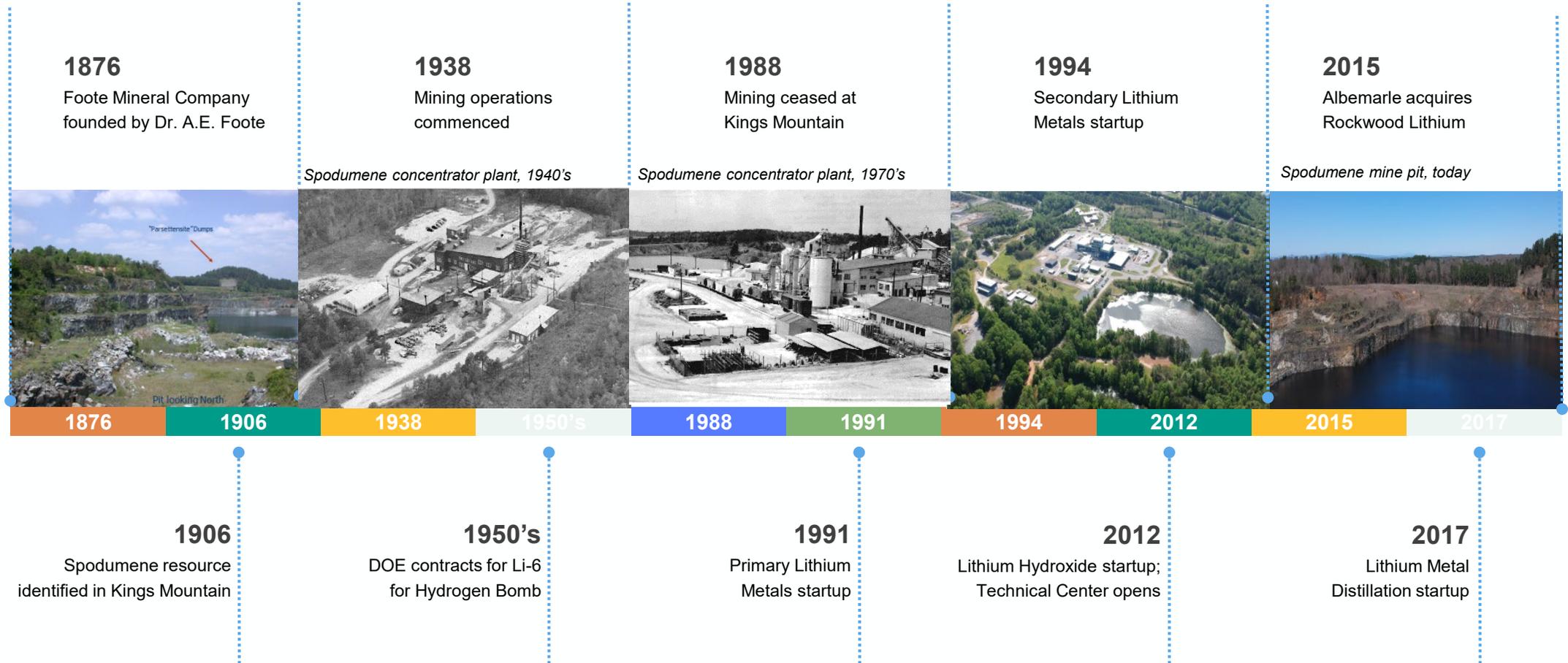
● R&D Labs

● Technology Center

● Total Land Area ~ 1300+ acres

● Population ~ 250 EE + 40 Contract

History: Industry Started in NC, Still Home to a Top Resource



Kings Mountain Lithium Operation – Overview Potential

Geology + History

- Site operational from 1940-1980s
- One of the most significant lithium deposits in North America

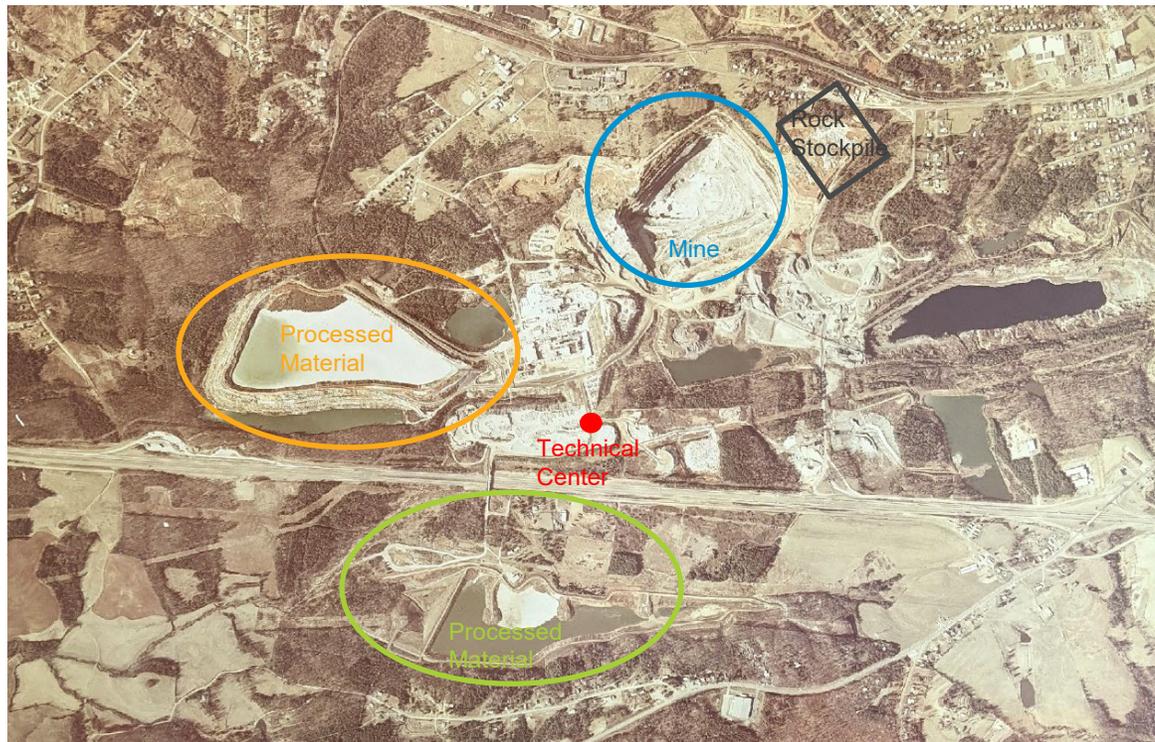


Figure 1: Historical aerial photo ~1970s

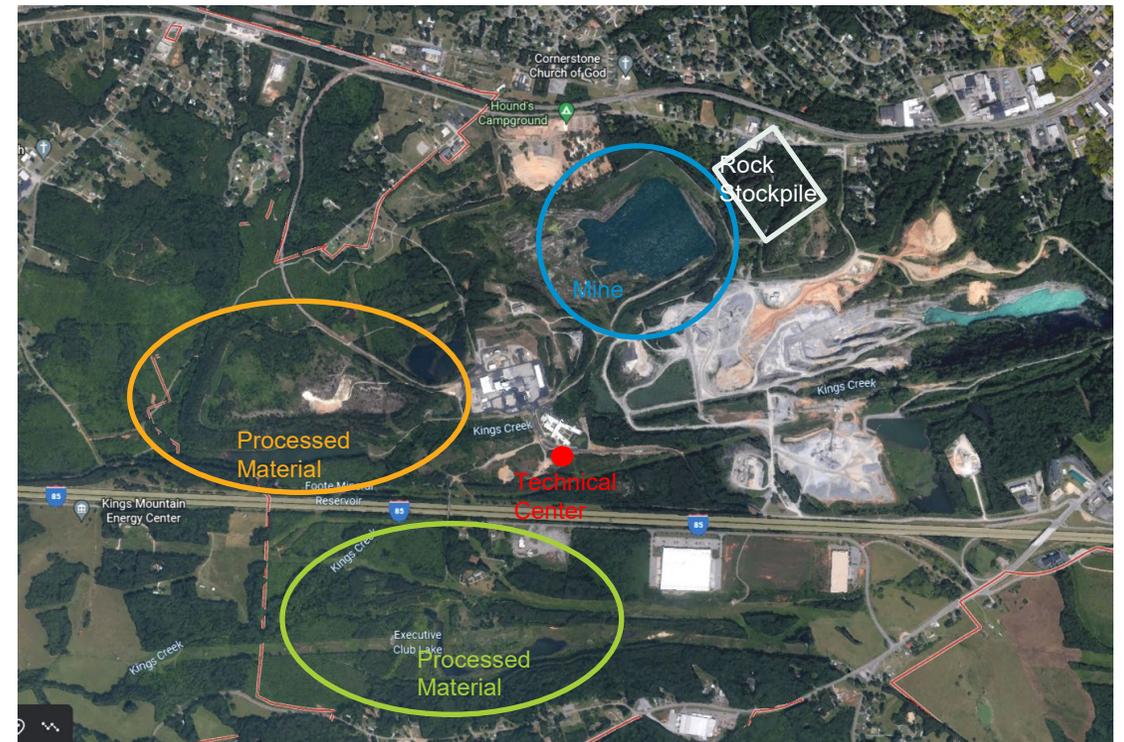


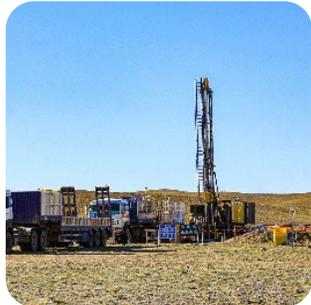
Figure 2: Today – Vegetation conceals significant operating history

Mining Lifecycle



EARLY EXPLORATION

- Prospecting
- Geological Mapping
- Airborne Survey



ADVANCED EXPLORATION

- Exploratory Drilling
- Prelim. Economic Evaluations



DEVELOPMENT STUDIES

- Environmental & Social Baseline
- **Prefeasibility Studies***
- Feasibility Studies
- Detailed Economic Evaluation
- Socio-Economics
- Environmental Impacts
- Permitting



CONSTRUCTION

- Final Engineering
- Plant Construction
- Site Development



OPERATION

- Ore Extraction
- Milling
- Processing
- Product Sales
- Environmental Management
- Progressive Reclamation



CLOSURE

- Mine Closure
- Demolition
- Repurposing
- Reclamation
- Post-Closure Environmental Monitoring & Maintenance

Core Components of Mining Feasibility Studies

Baseline Data Collection

- Cultural Resource Surveys
- Threatened & Endangered Species & Biological Surveys
- Public Water Well Survey
- Air Monitoring Program
- Visual Resource Surveys
- Aquatics Survey
- Noise Monitoring Program
- Geotechnical Characterization
- Tailings & Waste Characterization
- Surface & Groundwater Monitoring Programs
- Water Quality Monitoring Programs
- Traffic Surveys
- Social Baseline Data Collection
- Economic Baseline Data Collection



Alternatives Evaluations

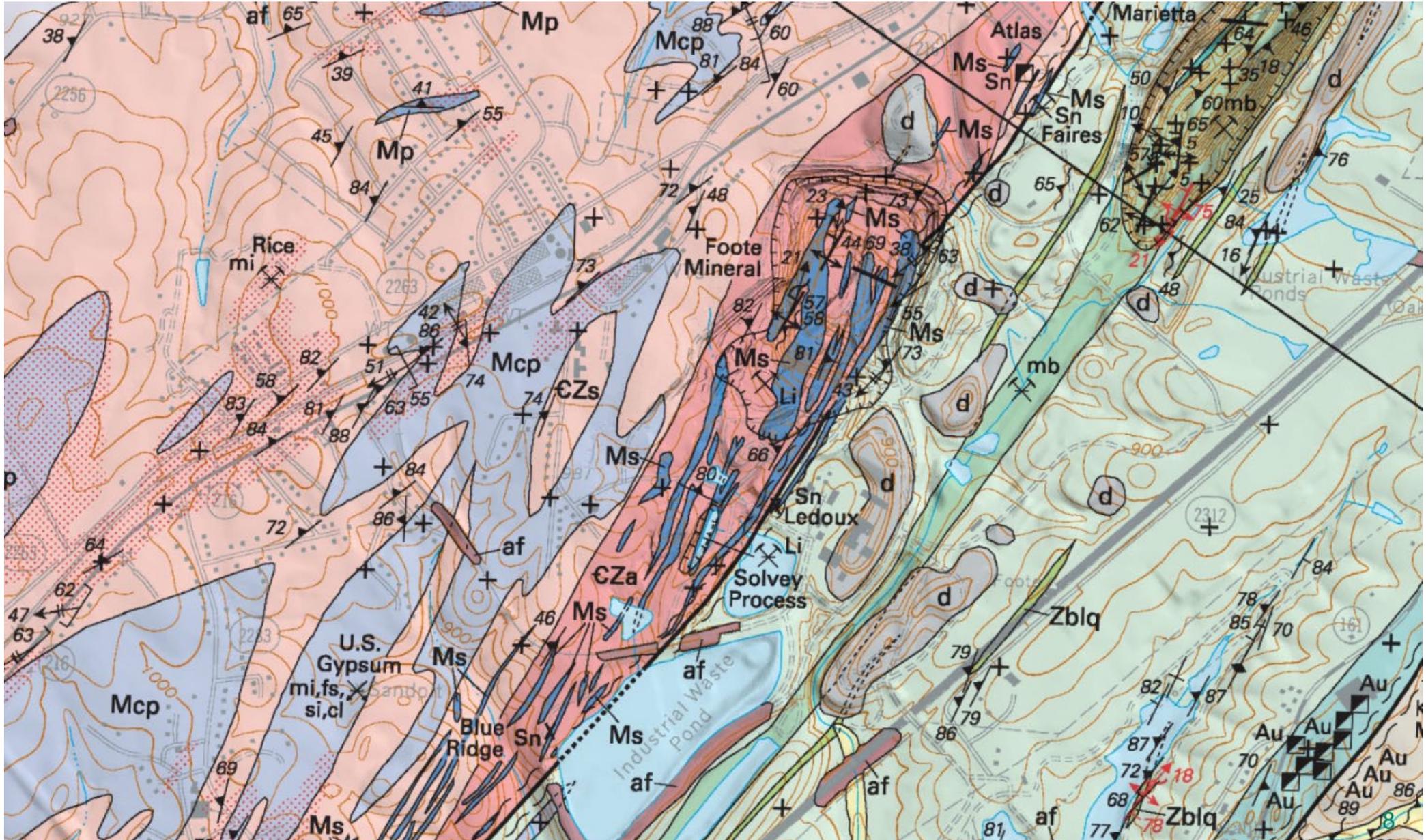
- Mine Pit Optimization
- Waste Rock Storage Options
- Tailings Storage and Filtration Alternatives
- Processing Plant Design & Innovation Options
- Water Management & Recycling Strategies
- Mine Fleet Sizes & Technologies
- Air Quality and Dust Management Strategies
- Labor & Capacity Training Alternatives
- Mine Closure & Reclamation Alternatives



Impact Assessments

- Surface Water Models
- Groundwater Models
- Water Quality Studies
- Air Quality Models
- Noise Assessment Studies
- Visual Resource Studies
- Mitigation Studies (T&E, Wetlands, etc.)
- Traffic Impact Studies
- Socio-Economic Assessments
- Human Rights Assessments
- Environmental Justice Assessments

Geology of Kings Mountain



Community Engagement

Collaboration with local communities is the cornerstone of any mining project

Ongoing engagement and feedback opportunities through public town halls, a Community Advisory Panel, and a downtown information center



Define together with the community a plan for

- Repurposing
- Reclamation
- Environmental monitoring
- Maintenance



Commitment to full technical & data transparency



Developing accessible green spaces, to enhance recreational opportunities, and conserve critical wetlands



Improve community wellbeing, with a focus on regional education, workforce, and economic development goals



Community Stakeholder Engagement

- **Community Town Halls**

- Formal presentations of project updates
- 2022 – March and September
- 2023 – January, May, July

- **Community Advisory Panel**

- Monthly meetings led by third-party facilitator to share project updates and incorporate feedback in plans
- Representation from across Cleveland County, including elected officials, community leaders, economic development staff, NGOs, and impacted communities

- **End Land Use Workshops**

- Series of workshops to discuss community's ideas for the space when mining is complete
- General community members, students, KM employees



CAP Meeting

Downtown Project Center

- Located in historic Griffin Drug on West Mountain Street
- Will be open to walk-in visitors with questions on project updates, current activities and project timelines
- Community meeting space available



We're Open for Business, Come Get the Scoop

Step out of the summer heat and come see what we're up to at the new Albemarle Kings Mountain Project Center. Stop by anytime this summer and pick up a Sweet Station ice cream coupon!



ALBEMARLE KINGS MOUNTAIN PROJECT CENTER, 129 WEST MOUNTAIN ST.

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(704) 734 2775

Website
albemarlekingmountain.com

HOURS

Tues., Wed., and Thurs.
9am-4pm
Check our website for evening
and weekend hours

LEARN MORE



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ALBEMARLE

Community Site Tours

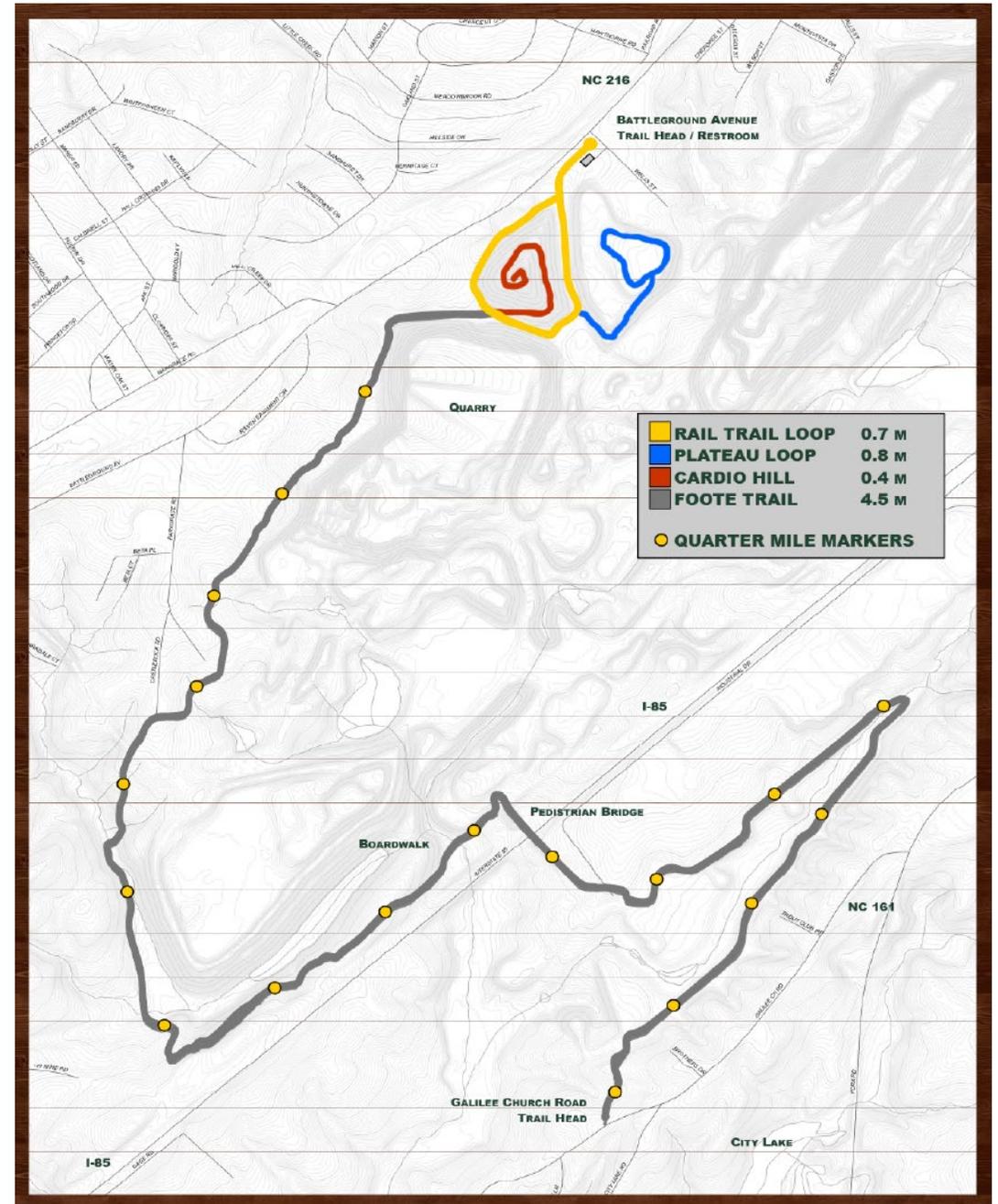
- Two-hour tour including a visit down to the proposed mine site
- Scheduled tours for residents and community groups
- Educational tours for student groups and classrooms



Gateway Trail Partnership

- This greenway is a public-private partnership between Cleveland County and Kings Mountain Gateway Trails, Inc, a non-profit 501c3 created to manage the facility.
- The Kings Mountain Gateway Trail began work on the creation of a local trail system with the National Park Service in 2001
- In 2008, Albemarle Lithium (Chemetal Foote) granted an 85-acre conservation easement to KMGT, allowing the trail to open in 2009 along the perimeter of Albemarle property.

Today, the trail hosts over 60,000 visitors annually.



Gateway Trail Partnership

Reclaimed rock storage areas from previous mine operations were developed to create popular Cardio Hill and Plateau Loop



Albemarle and KMGT partnered to create a Pollinator Garden within the reclaimed area, certified by the Wildlife Habitat Council

With proposed future mine operations, Albemarle has committed to relocating portions of the Gateway Trail, expanding access to the Kings Mountain community.



ALL THE ELEMENTS FOR A BETTER WORLD