

A satellite view of the Earth showing the Americas, Europe, and Africa, with white clouds swirling over the oceans. The text is overlaid on the top left portion of the image.

SUNRISE
RESOURCES plc

**Company Presentation:
5 December 2017**

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Directors & Officers



Patrick Cheetham
Executive Chairman

A geologist with 35 years in exploration management and 30 years as executive director of publicly traded companies. Currently Executive Chairman Tertiary Minerals plc.

David Swan
Non-Executive Director

Chartered Accountant. Former Group Leader in Mining and Resource Group, Ernst & Young, Sydney and CFO of Oriel Resources. Currently a director of Central Asia Metals plc.

Roger Murphy
Non-Executive Director

CEO, Sula Iron & Gold plc. Former MD Investment Banking, Dundee Securities Europe Ltd. Worked as a geologist for various companies, including Anglovaal Mining and British Petroleum.

Colin Fitch
Company Secretary

Barrister-at-Law & Chartered Secretary. Formerly Corporate Finance Director Kleinwort Benson.

- **To generate cash flow from development of the CS Pozzolan-Perlite project in Nevada, USA.**

Industrial minerals projects have the greatest potential to achieve an early cash flow as these typically have fewer permitting issues enabling production to advance more quickly than base or precious metal projects.

- **To participate in the value of new minerals discoveries through sale or joint venture of the Company's diverse drill-ready mineral project portfolio.**

Value creation for shareholders in junior mining companies comes from early drill-discovery of precious, base metal and diamond deposits.

About Pozzolan

Pozzolan is a silica or silica and aluminium rich material which will, in the presence of moisture, chemically react with lime at ordinary temperatures to form compounds possessing cement-like properties.

Pozzolans can be:

- *Industrial by-products* e.g. coal-fired power station fly ash, traditionally a waste product, blast furnace slag etc.
- *Natural* – various glassy volcanic materials such as tuff, tephra, pumice & perlite.

The Romans were the first to use natural pozzolan on a grand scale to construct public buildings, monuments, & infrastructure such as roads and ports, many of which have endured for over 2000 years...

... in contrast, modern concretes using Portland Cement without the addition of pozzolan are susceptible to “concrete cancer” (alkali-silica attack) after just a few tens of years.

Pozzolans are used to partially replace ordinary Portland cement in mortars and concrete mixes in amounts up to 35% and can improve the strength and chemical resistance of concrete



The Case for Natural Pozzolan

Concrete producers are also keen to reduce the amount of cement used as:

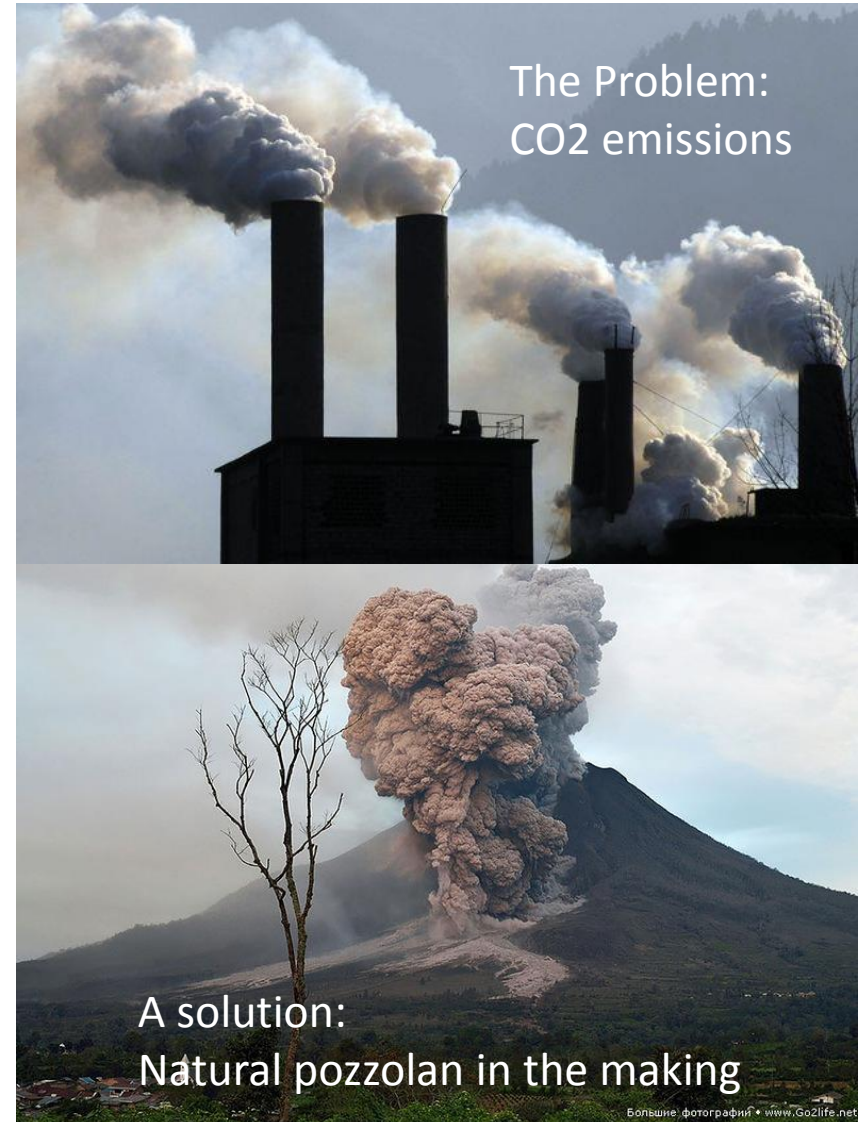
- production of Portland cement is responsible for 5% of the global man-made carbon dioxide emissions
- one tonne of carbon dioxide (CO₂) generated for each tonne of cement produced.

Today, in the US, most cement and concrete mixes contain fly-ash pozzolan which has historically been cheap and which adds strength and alkali resistance to cement whilst saving money.

However... Persistent shortages of fly ash in the USA since 2012.....

.....Natural pozzolans now have a growing market as a “green” alternative to Portland cement and fly ash.

Existing producers of natural pozzolan are experiencing rapid growth of their business e.g. Hess Pumice, CR Minerals.



The Case for Natural Pozzolan

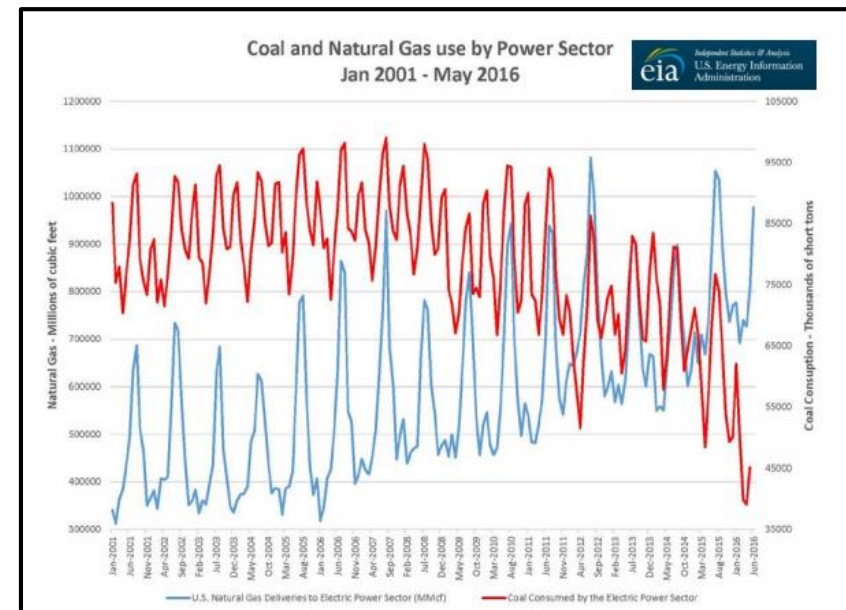
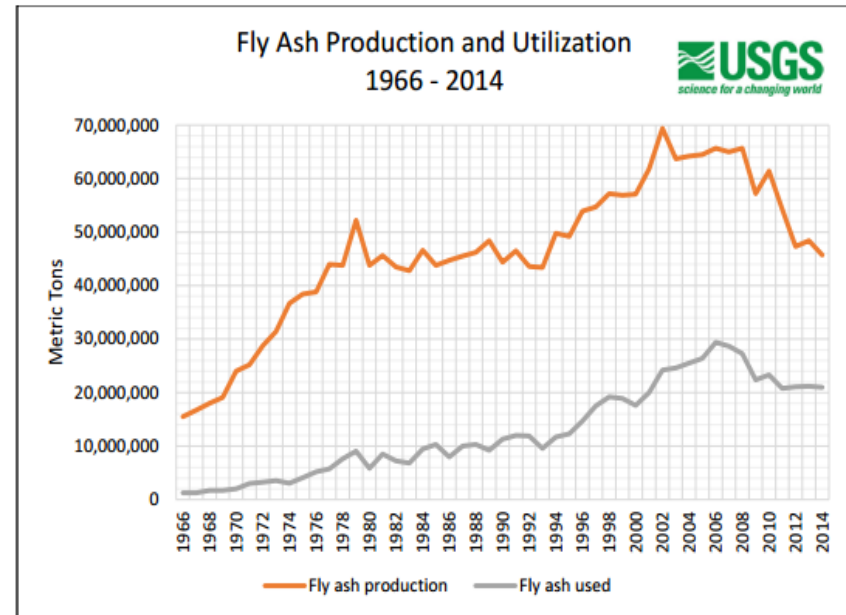
Fly ash supply in the US is reducing due to the rapid closure of coal-fired power plants across the country resulting from:

1. Increasingly difficult-to-meet federal and local environmental regulations - Mercury and Air Toxics Standards (MATS), Clean Power Act and Interstate pollution regulations, etc.
2. A concurrent rapid decline of the cost of natural gas.

Since 2010, 248 coal-fired power stations in US (50% of total) have scheduled retirement plans.

California, the most populous state in the USA, has no internal supply and is at the end of the line when it comes to rail deliveries from power stations in central and eastern USA.

The supply situation in the West will worsen when the largest power station west of the Mississippi (in Arizona) is scheduled to close in 2018/9.



About Perlite

Perlite is a glassy volcanic raw material which, when heated in a furnace, pops like popcorn and expands up to 20 times in volume into a white or pale coloured, low density material used in various industrial and household applications such as:

- Insulation
- Paint texturing, plaster and concrete fillers
- Fire proofing
- Filter aids (in competition with diatomite)
- Industrial cryogenic storage vessels
- As a potting medium in gardening and horticulture to aid water retention and aeration

Perlite is a favoured growing medium for cannabis.

The legalisation of cannabis in the US is driving very strong growth for horticultural grade perlite.

The legal cannabis market was worth an estimated \$7.2 billion in 2016 and is projected to grow at a compound annual rate of 17%.



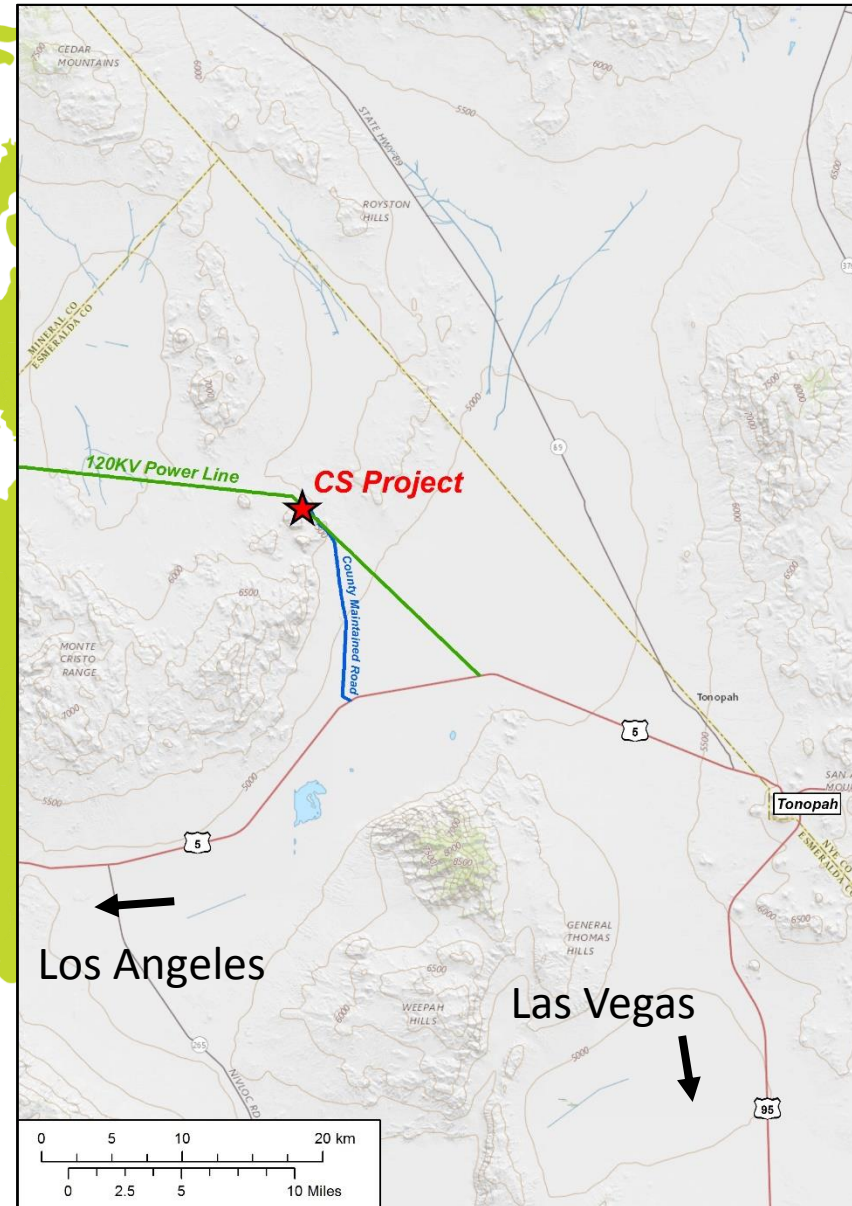
CS Pozzolan-Perlite Project

CS Pozzolan-Perlite Project
Nevada USA



Excellent Infrastructure:

- Adjacent to County maintained road
- Adjacent to 120KV power line
- 9 miles off interstate
- 20 minutes from Tonopah (regional town)

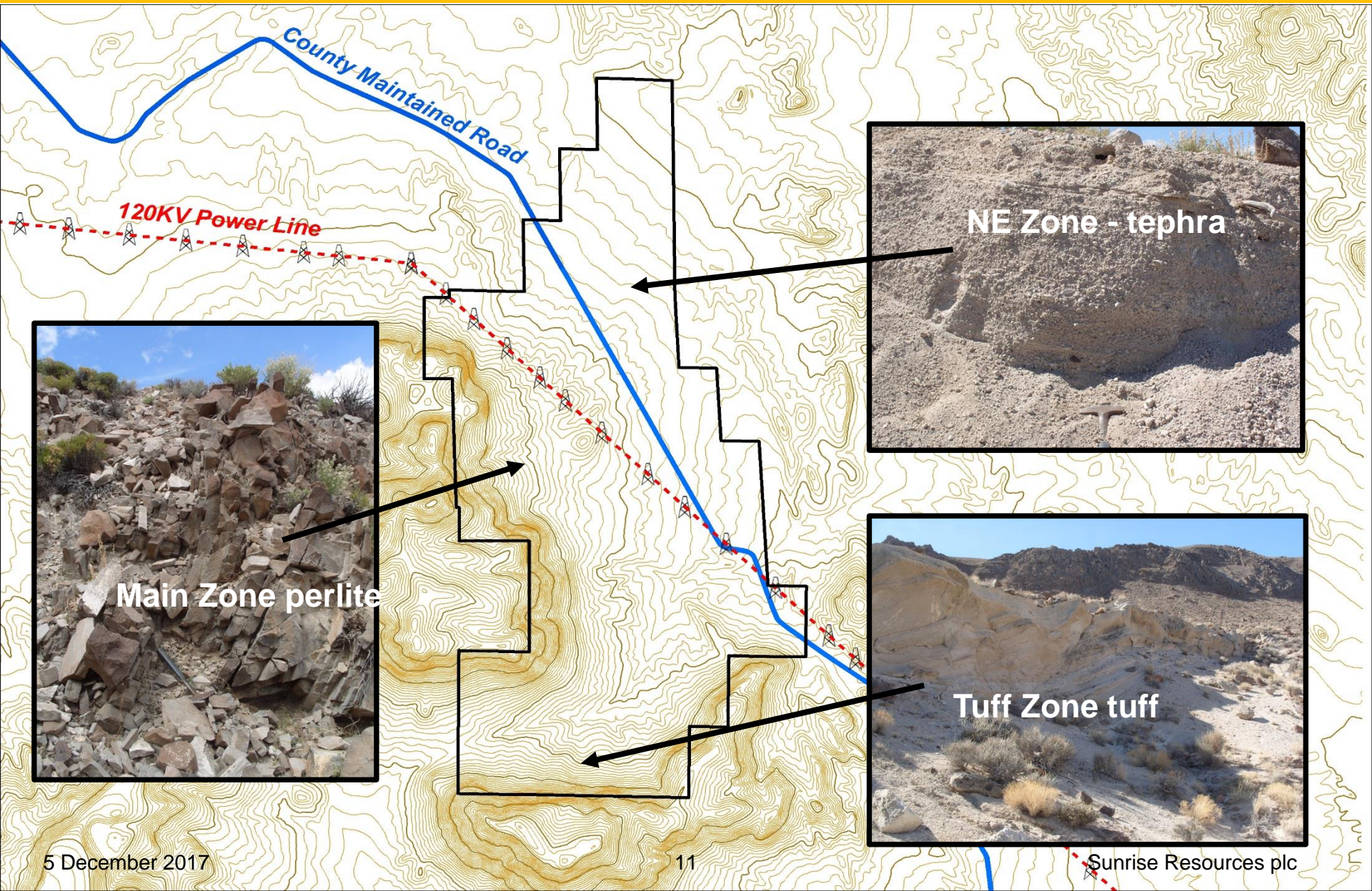


CS Project



CS pozzolan-perlite deposits developed during the build-up of a 7 million year old silicic volcano

CS Project - 4km long target

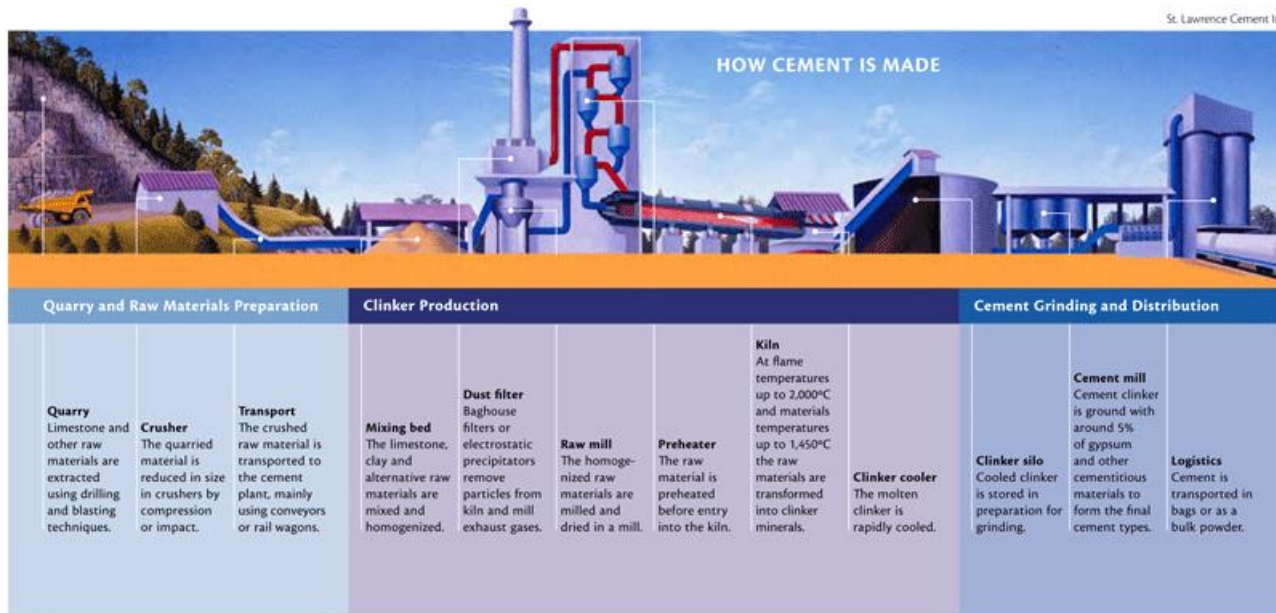


CS Project – Concept Production

Natural Pozzolan can be supplied to cement producers as an aggregate (gravel) sized material for Intergrinding with cement clinker to produce a natural pozzolan cement.

Alternatively, it can be ground to a very fine grain size and sold to the ready mix concrete suppliers in place of fly-ash for batch mixing with ordinary Portland cement and aggregate to make concrete.

Perlite can be supplied as a crushed ground and sized material for supply to arrange of perlite expanders throughout the USA.



Cement Clinker



CS Pozzolan - Markets

The Company is targeting sales of CS natural pozzolan as a replacement for fly ash.

California and Nevada are the most affected states in the fly ash supply crisis as:

- Most distant from main power plant sources in mid-and eastern states (no significant fly ash production in N. California or Nevada).
- Supplies from Navajo power plant in Arizona, the largest plant west of the Mississippi and 3rd largest emitter of CO₂ in US, will cease in 2019 (closure).

California: Cement production : 9.6 million tons (2015)
 900,000 tonnes of pozzolan of which fly ash currently accounts for about 90%.

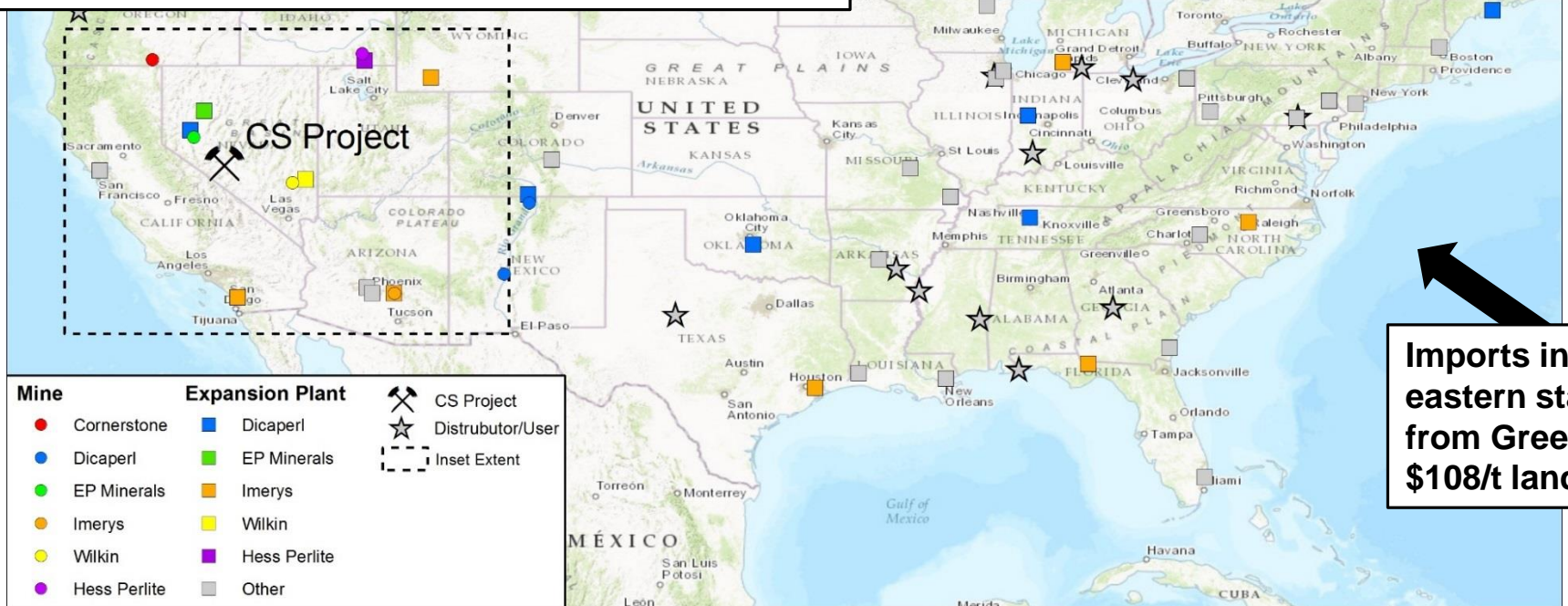
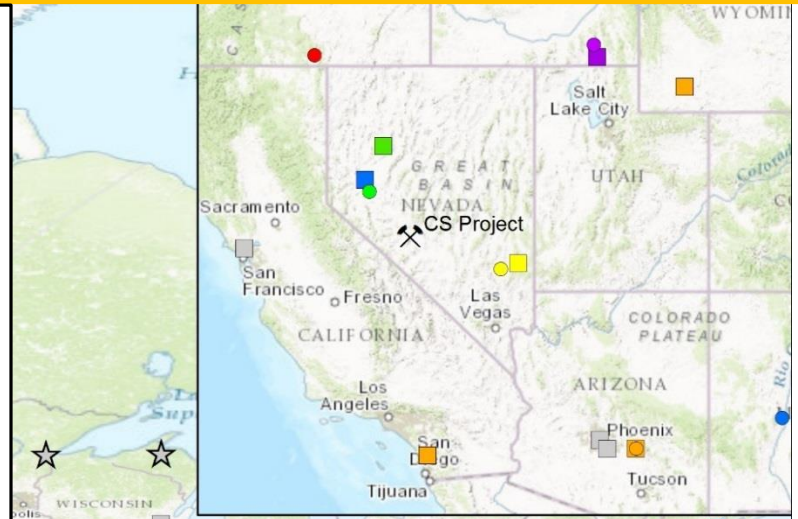
Nevada: Cement production : 1.3-2.3 million tons

Nevada Cement Co. is producing c. 250,000 tpa natural pozzolan - selling to northern Nevada and N. California.



CS Perlite - Market

- World production 4.6 million tonnes (2016) : China 40%, Greece 20%, Turkey 20%, USA 10%
- US Consumption 585,000 tons consumed, 19% imported
- Seven mines, six perlite producers in five western states
- Many more expanders - 46 expansion plants in 28 states
- Raw perlite : \$75/ton – before recent announcement of substantial price increases .
- Expanded Perlite average \$350/t >\$850/t for filter grade



Imports into eastern states from Greece \$108/t landed

Mine	Expansion Plant	CS Project
● Cornerstone	■ Dicaperl	⚡ CS Project
● Dicaperl	■ EP Minerals	★ Distributor/User
● EP Minerals	■ Imerys	⋮ Inset Extent
● Imerys	■ Wilkin	
● Wilkin	■ Hess Perlite	
● Hess Perlite	■ Other	

CS Project – Concept Study Results

- Positive Concept Study completed in April 2017 by the Company for production of both pozzolan and perlite.
- Study assumed that long-life, quality deposits will be defined within the known large outcrop areas of pozzolan and perlite.
- Surface mining and simple crushing and screening production process envisaged producing:
 - aggregate sized pozzolan for sale for Intergrinding with clinker, and
 - raw perlite from sale to perlite expanders.
- Preliminary modelling shows attractive financial returns based on low capital and operating cost estimates.
- Permitting study suggests an expeditious Environmental Assessment process rather than full Environmental Impact Statement process.



Main Zone pozzolan/perlite

CS Project Drilling & Trenching– July 2017

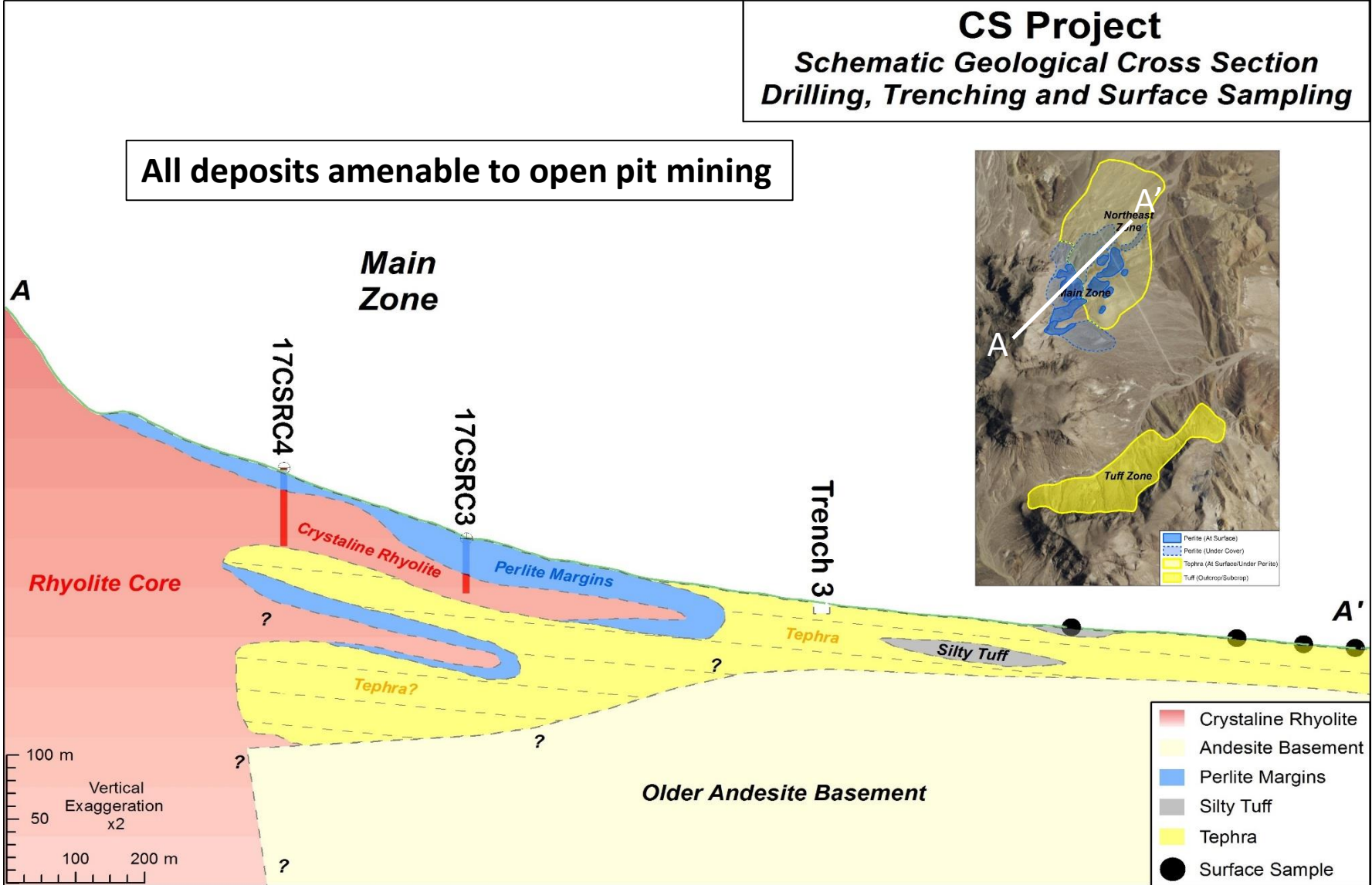
- 9 drill holes completed July 2017 in Main Zone & Tuff Zone
- 11 trenches completed in around Main Zone demonstrating potential extensions and link to NE Zone



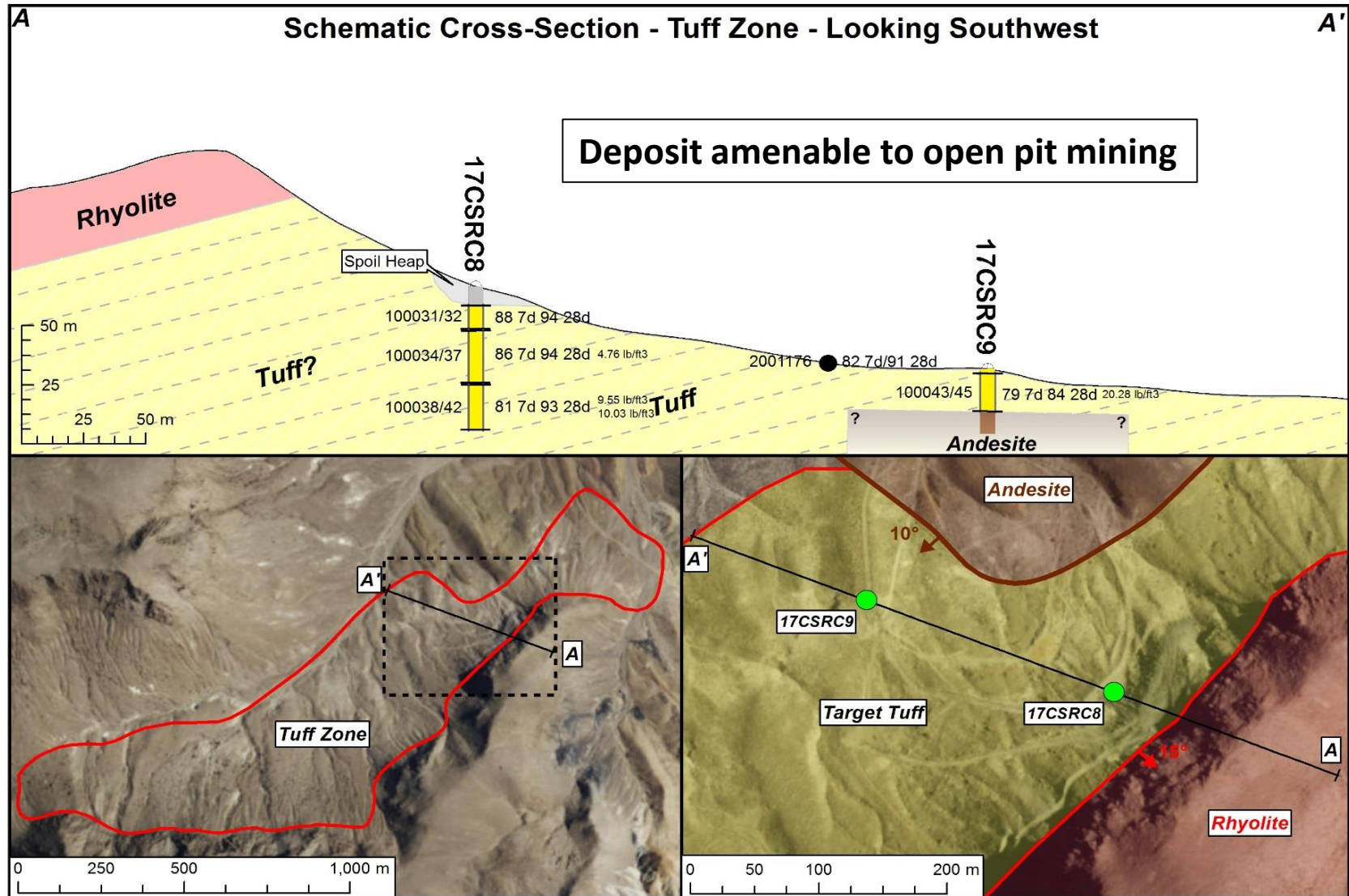
Main Zone – Schematic Cross Section

CS Project
Schematic Geological Cross Section
Drilling, Trenching and Surface Sampling

All deposits amenable to open pit mining



Tuff Zone – Schematic Cross Section



CS Pozzolan - Testing

To qualify as a natural pozzolan a material has to meet the specifications of ASTM Standard C618 which applies to both natural pozzolans and coal fly ash.

Requires :

- minimum content of combined silica, alumina and iron oxide (reactive compounds).
- minimum strength requirements for mortars made with partial substitution of Portland cement by natural pozzolan.

Chemical analysis of a range of CS samples met the chemical specification of ASTM C618.

Over 80 surface samples, composite drill samples and trench samples have been “pre-certification” strength tested by independent laboratory, Magmatics Inc.

All but one of these samples passed the strength requirements of ASTM. Materials from all three zones are quality natural pozzolans competitive with natural pozzolans available on the market today.



Compressive strength (SAI)
testing of cement block



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CS Perlite - Testing

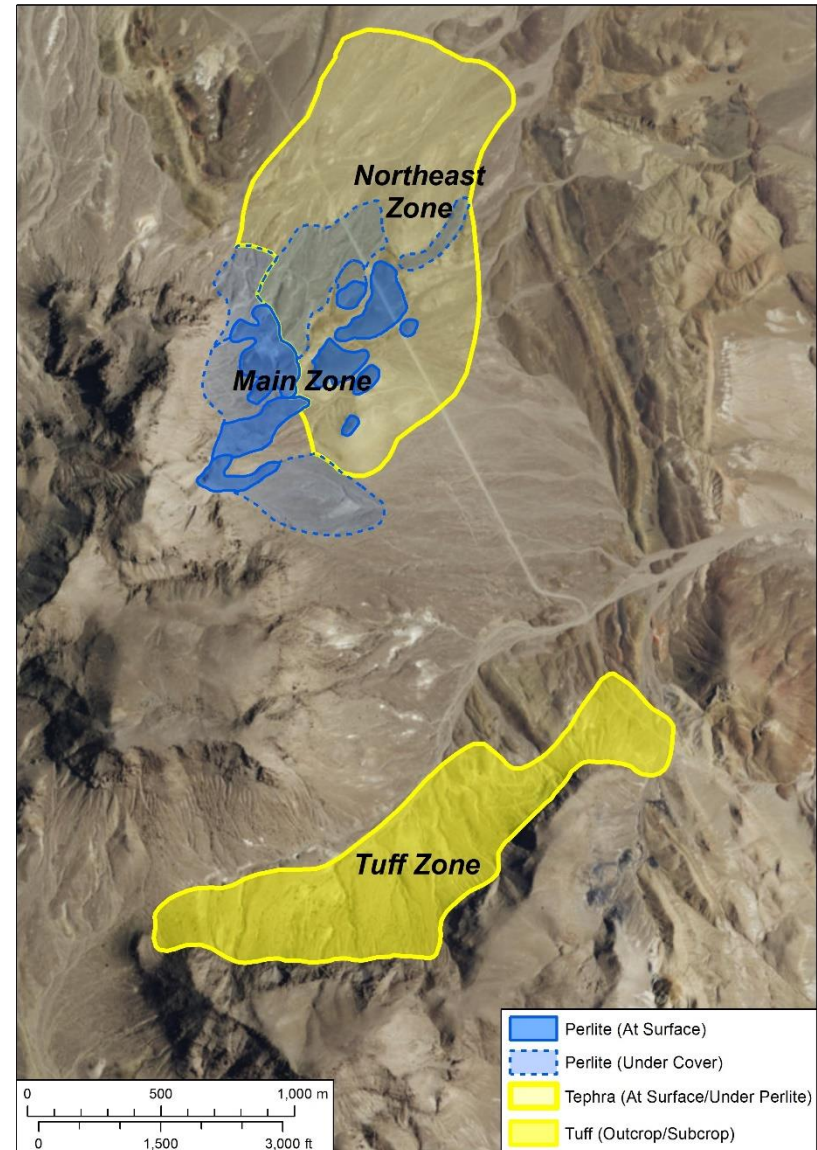
Perlite expansion testing in New Mexico & Greece

- Over 70 samples from the surface, drill holes and trenches have been subjected to basic testing, mostly from the Main Zone.
- Results show different areas having potential for the production of perlite for different industrial applications.
- Testing has now progressed to application specific testing to allow the Company to better define the target markets for its perlite, provide further information for potential customers, and allow the development of a mine plan based on the best performing materials.



CS Project – Next Steps

- Stage 2 drilling (to define first 5-10 years open-pit outline)
- Mine design
- External pozzolan testing/Certification (in progress)
- Environmental baseline studies & permitting
- Customer engagement (in progress)
- Customer trials (in progress)
- Bulk sampling
- Plant design
- Cement/Concrete trials
- Financial Modelling



Projects Available for Sale or Joint Venture

Company holds a diverse exploration project portfolio targeting:

- Gold & Silver (Nevada & Australia)
- Copper (Nevada)
- Industrial minerals (Nevada & Ireland)
- Diamonds (Australia)

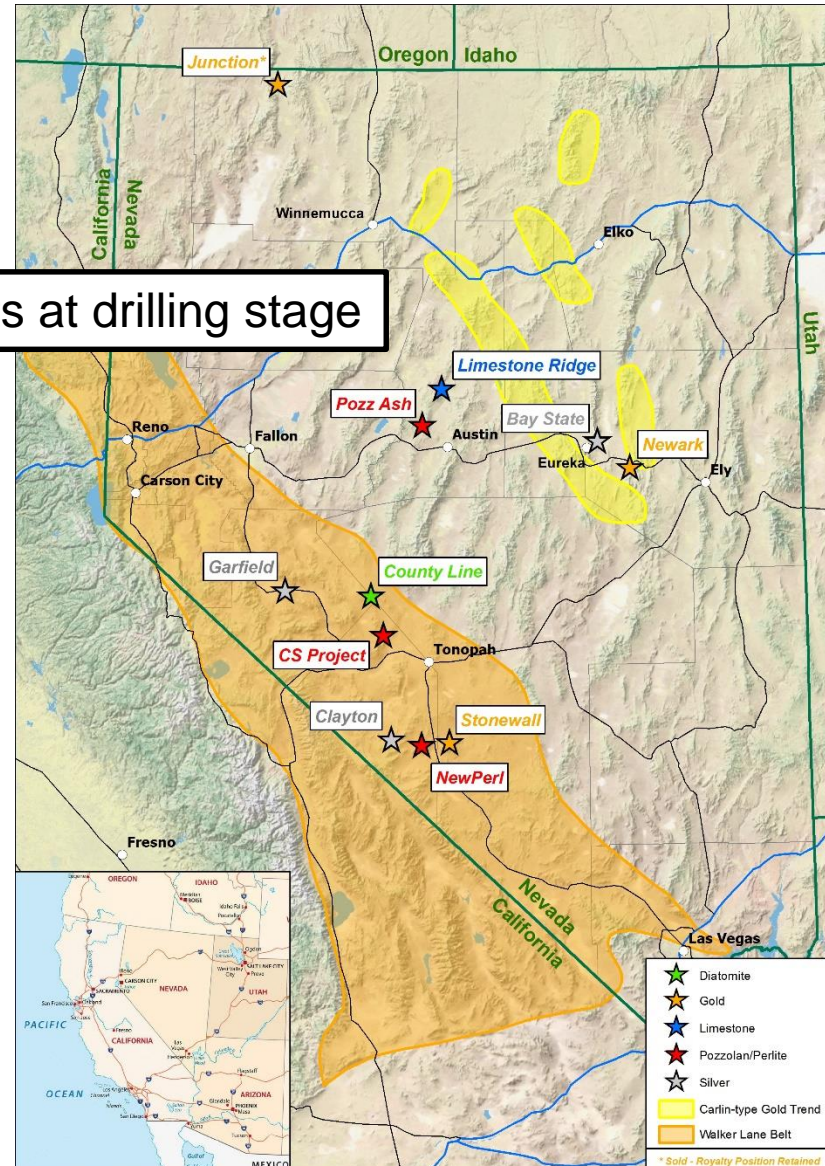
The Company's strategy since April 2017 is sell, JV or otherwise valorise these projects whilst it focuses management and financial resources on advancing the CS Pozzolan-Perlite project through to production.

First project sold in August 2017

Junction Copper Project

- Cash and share consideration
- Further shares to be issued on certain exploration milestones
- 3% NSR Royalty retained.

All projects at drilling stage



Shares & Shareholders

Shares on issue	1,810,818,020
Share Price (mid. Price 30 Nov. 2017)	0.175
52 Week Low-High Range	0.090p – 0.259p
Current Market Cap (at mid price, 30 Nov. 2107)	£3.17 million
Warrants*	277,375,000
*exercisable at prices from 0.135-0.850 pence	

Directors' Interests		%
Patrick Cheetham	81,506,032	4.50
Roger Murphy	26,411,621	1.46
David Swan	14,980,510	0.83

Notified Interests		%
Tertiary Minerals plc	136,454,787	7.54
Patrick Cheetham	81,506,032	4.50

- Clearly defined strategy targeting cash flow and value enhancing mineral discoveries.
- Concept Study has identified a low capital and operating costs route to production for the CS Pozzolan-Perlite Project. Developing towards production.
- Efficient company operating in attractive mining jurisdictions in politically stable countries.
- Exciting blue-sky exposure through portfolio of drill ready “discovery-stage” exploration projects.
- Share price near historic lows - Market Capitalisation only £3.2 million (2 Dec. 2017)
- Directors fully invested - participated at significant levels in recent placings and taking fees in shares.
- Strong news flow expected from active work programmes.

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