

## ASX ANNOUNCEMENT

16 January 2024

# SUVO INVITED TO DEMONSTRATE 'COLLIECRETE' ON MAJOR GOVERNMENT INFRASTRUCTURE PROJECT

## HIGHLIGHTS

- Suvo formally invited to complete a 'demonstration pour' of 'Colliecrete'.
- The Sustainability Waste Alliance ("SWA") have identified sections on the Bunbury Outer Ring Road Project ("BORR") where the Colliecrete can be demonstrated.
- The BORR is currently under construction by the South-West Gateway Alliance for Main Roads Western Australia and is the largest road infrastructure project in the history of the South-West of Western Australia.
- If successful, the demonstration pour may present the opportunity to use Colliecrete on other government infrastructure projects.
- Colliecrete, a low carbon concrete formulation, has achieved a GHG emissions reduction of approximately 50% compared to Ordinary Portland Cement ('OPC') (ASX Announcement 30 October 2023)

**Suvo Strategic Minerals Limited (ASX: SUV)** ("Suvo" or "the Company") is pleased to announce it has received an invitation from the Sustainability Waste Alliance ("SWA") to complete a demonstration pour of 'Colliecrete' – the low carbon concrete formulation which Suvo holds the rights to, by way of an exclusive license agreement with Murdoch University (ASX Announcement 30 October 2023).

Aaron Banks  
NON-EXECUTIVE CHAIRMAN

Oliver Barnes  
NON-EXECUTIVE DIRECTOR

Agu Kantsler  
NON-EXECUTIVE DIRECTOR

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ASX: SUV



Figure 1 - Geopolymer Pilot Batching Plant

The Company has been formally invited by the SWA to collaborate together on the Bunbury Outer Ring Road Project (“BORR”) which is currently under construction by the South West Gateway Alliance for Main Roads (“MRWA”), within the Office of Major Transport Infrastructure Delivery program (“OMTID”).

Specifically, a letter of support has been received from the SWA, to perform the demonstration pour of Collicrete on a section of the BORR. A number of proposed sites have been identified and at least one will be chosen to complete the demonstration pour. Suvo will utilise the mobile geopolymers pilot batching plant, already built by Murdoch and located in Collie (Figure 1), in Western Australia’s South–West region and plans on partnering with an existing and operational concrete batching plant that can retro fit the geopolymers pilot batching plant in order to facilitate the demonstration project.

The SWA was established to identify additional specific opportunities for using greener, low carbon and recycled materials in upcoming major transport infrastructure projects being facilitated by the WA Governments Office of Major Transport Infrastructure Delivery , such as the Bunbury Outer Ring Road.

Part of the formal invitation also includes membership of the Green Deal Alliance (“GDA”). The GDA is a collaboration between SWA, OMTID and Industry. Key stakeholders include Main Roads WA, Public Transport Authority, Metronet, Department of Water and Environmental Regulation and Covalent Lithium, just to name a few (a full list of the GDA key stakeholders can be found here <https://www.swainnovationhub.org/key-stakeholders.html>).

The GDA was established with the mission of fulfilling the vision of the Western Australian State Government’s Waste Avoidance and Resource Recovery Strategy 2030 (WARRS) – ‘Western Australia will become a sustainable, low–waste, circular economy in which human health and the environment are protected from the impacts of waste’.

This specifically links with Suvo’s recent initiatives surrounding geopolymers concrete, as the Company continues to investigate a number of different commercialisation strategies for Collicrete specifically, and in the geopolymers concrete and geopolymers binder space as a whole. This strategic alliance will also potentially allow the Company to explore further geopolymers concrete formulations including those made from waste derived materials.



Suvo has commenced discussions with technical experts and various industry partners to help facilitate this first demonstration project on the BORR.

**Non-Executive Chairman Aaron Banks commented:**

*“You can spend as much time as you want working with new and innovative materials in the lab. It’s not until you get out in the field and work with these products in the real world, that you get a feel for how they’re going to perform and what was right and what didn’t perform well.*

*This is a fantastic opportunity to work with government and industry partners to investigate not only potential product replacement and commercialisation strategies – but also to commence building an understanding of the road map to market acceptance.*

*There’s a lot of work to be done in the concrete space in how we can reduce the carbon emissions caused by Portland cement with real alternatives like geopolymers and it’s refreshing that the SWA are keen on working with us and helping in this process. Suvo is very appreciative of the invitation to participate in this demonstration project and we look forward to updating the market in the short term as this opportunity progresses”.*

**Program Director SWA Innovation Hub and Alliance Director, Sustainability Waste Alliance, Alliance Director, Green Deal Alliance, Peter Damen commented:**

*“It brings me great pleasure having invited Suvo to become a member of the GDA. I’d also like to offer the support of SWA and the GDA in helping Suvo develop its commercialisation strategies for geopolymers concrete products by way of the SWA ChemCenter Product Stewardship Scheme (PSS), to confirm its long-term safety to the environment and public health, to assess product performance for infrastructure use and lastly to facilitate market acceptance. Following Suvo joining the GDA and the SWA ChemCenter PSS we will work to assist Suvo gain market access for Collicrete to be used in major road and rail infrastructure projects being delivered by the Western Australian, State Government.”*

## **Company Profile**

Suvo Strategic Minerals Limited is an Australian hydrous kaolin producer and exploration company listed on the Australian Securities Exchange (ASX:SUV). Suvo is focused on production at, and expansion of, their 100% owned Pittong hydrous kaolin operation located 40km west of Ballarat in Victoria. Suvo's exploration focus is on near-term kaolin and high purity silica assets with 100% owned Gabbin (kaolin), Eneabba and Muchea (silica sands) projects located in Western Australia.

## **Pittong Operations**

The 100% owned Pittong Operations, located in Victoria 40km west of Ballarat, is the sole wet kaolin mine and processing plant in Australia and has been in operation since 1972. Pittong comprises the Pittong, Trawalla and Lal Lal deposits located on approved Mining Licences MIN5408, MIN5365 and MIN5409 respectively.

At Pittong mining contractors deliver crude kaolin ore to stockpiles from the two currently operating mines, Pittong and Lal Lal. The plant takes its feedstock from the ROM and it is processed into four separate product forms for end users. These product forms are 10% moisture lump, high solids slurry, 1% moisture powder and 1% moisture pulverised powder. The solids slurry is used in paper and board manufacturing. The other products are used in paper, coatings, paint and specialist industries including rubber and pharmaceutical applications. Around 20–25kt per annum is supplied to various end users.

## **Gabbin Kaolin Project**

The 100% owned Gabbin Kaolin Project (White Cloud) is located 215km northeast of Perth, Western Australia. The project area comprises four granted exploration licences (E70/5039, E70/5332, E70/5333, E70/5517) for 413km<sup>2</sup>, centred around the town and rail siding of Gabbin. The generally flat area is primarily cleared farming land devoid of native bushland and is currently used for broad-acre cereal cropping. A mining access agreement is in place over the current resource area with the landowner and occupier.

The main rock types at Gabbin are primarily Archaean granite, gneiss, and migmatite. These rocks are overlain and obscured by Tertiary sand and Quaternary sheetwash. The weathering profile is very deep and contains thick kaolin horizons capped by mottled clays or laterite zones. The current JORC 2012 Mineral Resources are 72.5Mt of bright white kaolinised granite with an ISO Brightness of 80.5%.

## **Eneabba Silica Sands Project**

The 100% owned Eneabba Silica Sands Project is located 300km north of Perth, Western Australia. The project comprises four granted exploration licences (E70/5001, E70/5322, E70/5323, E70/5324) for 169km<sup>2</sup>. The project is located on the Eneabba Plain whose sandy cover is very flat to gently undulating. Outcrop is rare due to the accumulations of windblown and alluvial sand at surface. Below this is a thin hard silcrete or lateritic claypan which overlies deep white and yellow sands.