

BLASTING & VIBRATIONS

Key Facts on the Project's management of Blasting and vibrations

Savannah is committed to minimising any disturbance to local people, fauna and local buildings caused by blasting and other sources of noise on the Project. Through the application of best practice and constant monitoring, Savannah's target is to keep ground vibration and noise levels well below the limits set by Portuguese law.



1. Why is blasting necessary?

The use of explosives is a common practice in mines and quarries (also called blasting) to break up rock masses.

2. Is the blasting safe?

Like all activities at the Project, blasting will be conducted by trained staff in accordance with all regulations set in the Project's environmental licence and Portuguese law. Savannah will apply strict protocols to all aspects of blasting, including the storage, handling of explosives, and monitoring of ground vibrations, dust and noise. Blasting locations at the Project will be at significant distances from local communities and there will be no danger to members of the public from the blasts. To ensure this, before the blasts occur sirens will sound and any temporary road blocks which are required will be put in place. Timetables for blasting will be displayed at the Information Centres, on public noticeboards in the local area, and via the Project's smart phone app.



3. What experience does Savannah have of conducting blasts in this area?

Savannah already routinely conducts blasts at the NOA pit located on the C-100 Concession Area (where the Project will be located) around 4 times per year, where small amounts of ore are extracted for use in the ceramics industry. There have been no Health & Safety incidents associated with blasting at NOA.

4. How often will blasting occur?

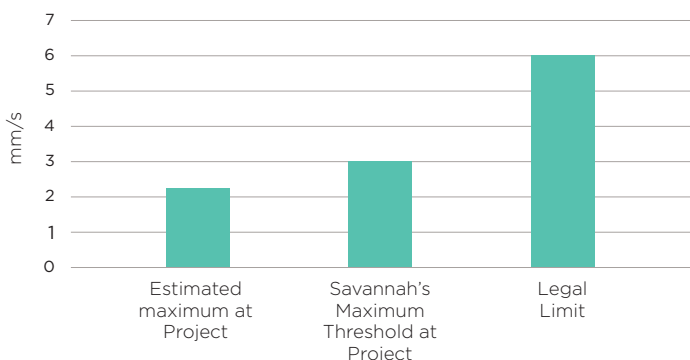
Blasting will take place between 12-3pm up to 3 times per week between Monday and Friday. There will be no blasting outside of these hours during the week and never at weekends.

5. Will people be aware of the blasts, and what legal limits is Savannah working too?

Savannah's extensive studies and modelling of the vibration and noise caused by blasting show that:

- ▶ **Noise:** will not exceed 55 decibels at the nearest occupied house to the works concerned, equivalent to the day-evening limit for a 'Sensitive' area as defined by Portuguese law, and similar to the noise level of a refrigerator. Please see the Fact Sheet on Noise (#2) for more information on noise management.
- ▶ **Ground Vibration:** The maximum ground vibration measured at the nearest occupied house, in Romainho, will not exceed 2.3 millimetres per second (mm/s), equivalent to less than 40% of the limit of 6mm/s permitted under Portuguese law (NP-2074 2015). Savannah has committed to a maximum level of ground vibration of 3mm/s (at frequency values greater than 10Hz) or just 50% of the permitted maximum value.

Ground vibration levels at the Barroso Lithium Project



- ▶ **Fumes:** There may be a very small volume of fumes associated with the blasting, but these will usually dissipate on site and not reach local communities.
- ▶ Targeting such low levels of noise and, most importantly, ground vibration should ensure that blasting at the Project does not impact the local population, their homes, or the area's historic buildings.

6. How will Savannah monitor the noise and vibrations from blasts?

Noise and vibrations caused by explosions, as well as air quality, will be measured and monitored via a network of monitoring devices located within local communities, including at the nearest properties to any blast sites. Real-time results, as part of a range of environmental data on the Project, will be made publicly available.

7. How can I make a complaint about blasting/vibrations/damage to buildings?

Residents can contact Savannah via the dedicated 24hr phone line, which will be created or via one of our Information centres during office hours, or via email. Immediate actions will be taken to respond to any complaints received in relation to blasting, vibrations or damage to buildings. Savannah will then liaise with and update the resident on its progress in dealing with the issue raised.



VIEW OF THE MINING WORKS AT NOA

If you would like more information or have any questions or comments, please visit or contact the Barroso Lithium Project Information Centres

Information Centre Addresses:

Boticas: Rua 5 de Outubro, nº26 , 5460-304

Covas do Barroso: Largo do Cruzeiro nº7, 5460-381

T : 276 413 042

E: centro.informacao@savannahresources.pt



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