

Cornish Lithium in Geothermal Waters Summer Newsletter 2023



2023 Cornish Lithium Community Fund

In 2022 Cornish Lithium partnered with Cornwall Community Foundation (CCF) to announce a £20,000 fund eligible for groups local to project areas. This includes Gwennap, Carharrack and St Day, Lanner, Chacewater and Blackwater. Following its success the 2023 fund is now open for applications, and can be found on the CCF website: www.cornwallcommunityfoundation.com



Cornish Lithium has attended a variety of events over the first half of 2023, including a successful three days at the Royal Cornwall Show, and will be at local events across the summer. Come and say hello and find out more information about our projects.

Twelveheads

In March this year Cornish Lithium successfully completed its exploration drill programme at Twelveheads, with a final depth of c.2,000m reached. Further testing and analysis of the waters will take place over the coming months, trialling new Direct Lithium Extraction (DLE) technology at the United Downs test site.

Results of 2022/23 drilling:

- Encountered 4 permeable zones
- Average lithium content of c.100ppm at final depth
- Temperature at final depth of 72 degrees Celsius

Future work:

- Small scale, intermittent, abstraction pumping of the Twelveheads borehole
- Transport of waters to DLE test facility at United Downs via 2 or 3 water tankers per week
- Manual tripod and winch for equipment – no drill rig needed

United Downs



Testing of the previously drilled boreholes at United Downs has been taking place as a wider collaborative project. This is to build on understanding of flow rates, aquifer properties and geochemistry of the water across Cornwall.

New DLE technology will be trialed at the test facility this year, alongside the reverse osmosis equipment.



Blackwater exploration drill site

Blackwater

Cornish Lithium started drilling the exploration project near Blackwater shortly after Easter 2023. This site includes the same drill rig as Twelveheads, and a 4m high straw bale wall. The use of this straw bale wall is to minimise visual and noise impacts, and its use was featured in local news and BBC radio. The drilling is progressing well, and the testwork is planned for over September to test the potential lithium and temperature of the contained geothermal waters within the structures. Testwork may include some 24hr work when operationally necessary.

Cornish Lithium is supporting the Blackwater Youth Project and has visited Blackwater Primary School to speak to them about the future of mining in Cornwall, and hosting visits to the drill site for the community.

Scan the QR code to listen to the BBC Sounds feature on use of haybales:



Scan the QR code to visit our website and find out more about our work, and sign up to our newsletter: cornishlithium.com