

DOCKETED

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Filer:	David Stein
Organization:	WSP Golder
Submitter Role:	Applicant Consultant
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Willow Rock Monthly Geotechnical Update – November 2022

Status

The table below overviews the status of the various activities that have been initiated during the geotechnical program at the Willow Rock project site as of 2022/11/30.

Activity	Status	Notes
Shallow Borehole Program	Complete	Shallow borehole program was completed June - August 2022 with 8 shallow borehole and CPT testing.
Seismic Testing Round 1	Complete	Seismic testing was completed in Q1 to provide early insight on bedrock depth and stratigraphy before selecting borehole locations.
Deep Borehole #1	Complete	Drilling, downhole testing, and lab analysis has been completed on borehole #1.
Deep Borehole #2	Ongoing - Lab Testing	Deep borehole #2 has completed drilling, geophysical logging, and pump & packer testing. In-situ stress testing (sigra) was attempted but no successful tests were completed. Lab testing on core samples is ongoing
Deep Borehole #3	Ongoing – Downhole Testing	Deep borehole #3 has finished drilling to a total depth of 2313' BGL and is completing downhole testing. In-situ stress testing was completed, and 2 successful tests were gathered. Geophysical logging and downhole water samples were gathered. Pump & packer testing will be completed in December before closing the hole.

Monthly Update

Deep Borehole #1

Chemical analysis tests on the basement granite were completed this month which concludes the program for hole #1.

Deep Borehole #2

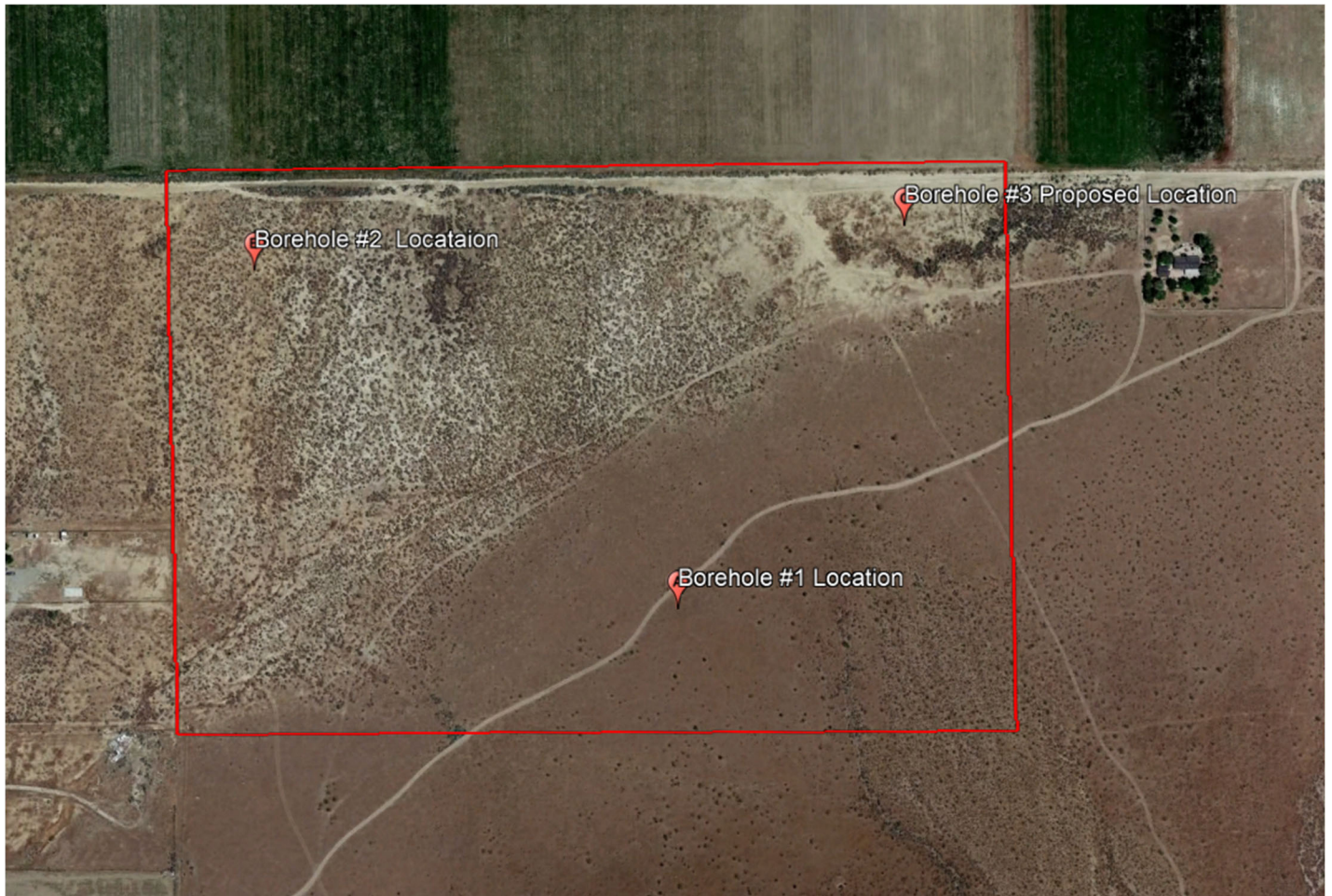
Lab testing for borehole #2 is ongoing. Core samples are being tested for UCS, density, specific gravity, slake durability, Poisson's ratio, Young's modulus, and tensile strength tests.

Deep Borehole #3

Drilling on borehole #3 advanced from 1522' to a final depth of 2313' during the month of November. In-situ stress testing (sigra) was attempted on the core samples from 1907 – 1970' and 2 successful tests

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were completed. The analysis of the gathered sigma data is still in progress. Downhole geophysical logging was completed on the entire hole from the top of bedrock to TD. Additionally, downhole water samples were gathered and have been sent to the lab for quality tests. The hole has been prepared for pump & packer testing which will be completed during the first two weeks of December before closing the hole.



New Data Transmittals

The following data from the geotechnical exploration program has been received during November 2022. This data is being submitted electronically via the CEC Kiteworks system due to file size limitations.

- Chemical analysis data from borehole #1
- Preliminary geophysical data from borehole #3