



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105-3901

BY EMAIL ONLY

May 11, 2023

Jordan Hara
Puna Geothermal Venture (PGV)
P.O. Box 30
Pahoa, Hawaii 96778

Re: **Well Conversion Approval and Authorization to Inject, KS-21
Puna Geothermal Venture UIC, Permit No. R9UIC-HI5-FY16-1R**

Dear Mr. Hara,

The U.S. Environmental Protection Agency, Region 9 (EPA) has reviewed the package of materials regarding completion of KS-21, dated March 1, 2023, and the additional materials submitted through May 5, 2023. These include PGV's request to convert well KS-21 to an injection well and the results of mechanical integrity testing (MIT), updated financial assurance documentation, and injectivity testing results. In addition, pursuant to the Permit, Part II.D.2.a., the maximum wellhead injection pressure has been calculated by PGV as required, including a safety factor, and is established at 631 psi.

PGV's request to convert KS-21 to an injection well under the above referenced permit and authorization to inject, up to the maximum well head injection pressure, into Well KS-21 is approved. PGV shall adhere to all terms and conditions of the above-referenced permit. If you have any questions regarding this letter, please contact me at (415) 972-3971 or Kaylee Glenney at (415) 972-3944.

Sincerely,

/s/
2023-5-11

David Albright
Manager, Groundwater Protection Section

cc: Iris Van Der Zander, Hawaii DOH
Philip Nigro, Hawaii DLNR