





# 2022 YEAR in REVIEW

## NASA SANTA SUSANA FIELD LABORATORY

### GROUNDWATER & SOILS

Throughout 2022, NASA continued to work with DTSC under the 2007 Consent Order for Corrective Action to develop a final, comprehensive groundwater cleanup plan for NASA-administered areas at SSFL. As part of this endeavor, NASA installed and tested two groundwater and two vapor monitoring wells under the DTSC-approved work plans to fill data gaps for groundwater and vadose zone remedial planning, including groundwater monitoring wells in both the Bravo and Delta Test Areas and two 50-ft vapor monitoring wells in the Alfa Test Area. In addition, NASA collaborated with DTSC to complete the Coca/Delta Area of Impacted Groundwater specific fate and transport model to support the groundwater Corrective Measure Study (CMS) and Corrective Measures Implementation (CMI). NASA also continued to support the operation of the Groundwater Extraction Treatment System (GETS) at SSFL, which pumped and treated over eight million gallons of groundwater.

NASA also made progress with two important groundwater pilot studies. For the enhanced in-situ bioremediation (EISB) study, NASA obtained a Waste Discharge Requirement (WDR) permit from the Los Angeles Regional Water Quality Control Board. In addition, NASA installed and tested six wells for the injection, extraction, and monitoring needs for the study. For the BVE pilot study, NASA received DTSC approval for the work plan, as well as obtained permits for construction and operation from Ventura County. During the year, NASA installed six vapor extraction and vapor monitoring wells and performed baseline vapor sampling. NASA also completed and placed the mobile solar panel array that will be used to power the system. Both pilot studies are expected to formally begin in 2023.

With regard to NASA's soil cleanup at SSFL, NASA and the Department of Toxic Substances Controls (DTSC) technical teams began ongoing discussions focused on the technical challenges associated with the 2010 Administrative Order on Consent (AOC) cleanup and the 2013 Look-Up Table values. The objective of these discussions is for NASA to be able to begin the final, comprehensive soil cleanup soon as the state finalizes its Programmatic Environmental Impact Report (PEIR), issues a decision document, and approves NASA's cleanup plans.



*Workers prepare the high-density polyethylene pipeline (HDPE) for the Bedrock Vapor Extraction pilot study system in the Alfa Test Area.*

### FOR MORE INFORMATION

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