

**AMENDMENT TO
Contract for Professional Services Agreement
Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240
Telephone 760-329-6448 – FAX 760-329-2482**

TO: Kyle Groundwater, Inc.
309 E. Jefferson Avenue
Pomona, CA 91767

DATE: December 15, 2025

PROJECT DIR#: N/A

FIRST AMENDMENT TO CONTRACT AGREEMENT

1. This amendment ("Amendment") is hereby made by Mission Springs Water District and **Kyle Groundwater, Inc.**, parties to an agreement for **Hydrogeological Support Services Assessment of Mission Springs Water District Well 28 & 30** ("Agreement"), dated **September 1, 2025**.
2. In exchange for the promises herein and other good and valuable consideration, the sufficiency of which both parties acknowledged, it is mutually agreed by and between the undersigned contracting parties that the Agreement is amended as follows:

This First Amendment will:

- **Increase the Contract Agreement amount by \$65,273.00, including a 10% contingency of \$6,527.30. The total increase of \$71,800.30 increases the Contract Agreement from a not-to-exceed amount of \$21,387.00 to a not-to-exceed amount of \$93,187.30, as detailed in Attachment 1.**
 - **Revise the Scope of Work to include hydrogeological support services, rehabilitation, redevelopment, testing and oversight for Well 28, as outlined in Attachment 1.**
3. Except as set forth in this Amendment, the Agreement is unchanged and shall continue in full force and effect in accordance with its terms. If there is conflict between this Amendment and the Agreement the terms of this amendment will prevail.

Instructions: Sign and return via email. Upon acceptance by Mission Springs Water District, an executed copy will be returned to you for your records. Insert the names of your authorized representative(s) below.

Accepted:

Mission Springs Water District

Consultant:

Kyle Groundwater, Inc.
(Business Name)

By: Brian E. Macy, PE

Title General Manager

By: Russell Kyle

Title President

Other authorized representative(s):

Danny Friend
Director of Operations

Amanda Lucas
Contracts Analyst

Other authorized representative(s):



November 21, 2025

Mr. Danny Friend
Director of Operations
Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240

**Subject: Proposal for Professional Hydrogeological Support Services
Rehabilitation, Redevelopment, and Testing of Well 28**

Dear Danny:

KYLE Groundwater, Inc., (KGI) is pleased to present this proposal to Mission Springs Water District (MSWD) for professional hydrogeological support services, including construction management, and field observation during rehabilitation, redevelopment, and testing of Well 28, located on the south side of Mission Lakes Boulevard, approximately 300 feet east of Clubhouse Boulevard, in Desert Hot Springs, California. Our detailed scope of work to perform this work is described as follows, and our cost proposal is included in Table 1.

Task 1.0 – Project Management and Meetings

KGI will provide general project management and will prepare for and attend three (3) meetings with MSWD, including a pre-construction meeting with the selected contractor and MSWD personnel. Discussion will include, but not be limited to submittals, permit requirements, equipment set up, noise mitigation, discharge configuration, construction water, site access, work schedules, submittal of pay requests, and communication protocol. Meeting agendas will be prepared for all project meetings, as needed, and meeting minutes will be provided upon request.

Task 2.0 – Construction Management and Support

Task 2.1 – Construction Management, Coordination, and Support

During the construction phase, KGI's project manager will provide construction management support, including contractor submittal review, response to RFIs and RFCs, change order review, project schedule review, contractor progress payment request review for accuracy, and regular construction updates.

KYLE Groundwater, Inc.
2377 W. Foothill Blvd., Suite 7
Upland, CA 91786
(626) 379-7569

Task 3.0 – Field Observation

Task 3.1 – Removal of Sediment and Debris

KGI personnel will provide part-time observation during bailing and/or pumping to remove accumulated sediment and debris from the bottom of the well as completely as is considered practical to the reported depth of approximately 900 feet below ground surface (bgs). KGI personnel will monitor the progress of the task and verify that the proper procedures and equipment are employed.

Task 3.2 – Mechanical Cleaning by Brushing and Removal of Fill

The first step in the well rehabilitation process should be mechanical cleaning by brushing. The mechanical cleaning process shall be conducted throughout the entire wetted portion of the well in such a way as to provide powerful and effective removal of scale, as well as to exert stresses within the near-well zone. For cost estimating purposes it is assumed that cleaning of both the well casing and screen will occur and that one complete pass will be necessary over a period of two (2) to three (3) days. Following mechanical cleaning, accumulated sediment and debris will be removed from the bottom of the well as completely as is considered practical to the reported depth of approximately 900 feet bgs. KGI personnel will provide part-time observation during mechanical cleaning and bailing of the well to monitor the progress of the task and verify that the proper procedures and equipment are employed.

Task 3.3 – Post-Mechanical Cleaning Downhole Video Survey

KGI will provide full-time observation and review of a post-mechanical cleaning dual-cam downhole video survey as a means of assessing and documenting the condition of the well following mechanical cleaning, and to allow an unobstructed view of any structural issues that may be present.

Task 3.4 – Preliminary Redevelopment by Focused Intake Pumping

Following brushing, and prior to chemical treatment, the well should undergo preliminary redevelopment by focus intake pumping. This task involves pumping of specific screened intervals through a double-surge block while simultaneously swabbing of the well screen in 10-foot increments. The purpose of this preliminary pumping is to remove loose material and/or casing scale in preparation for subsequent chemical rehabilitation work. The duration of this process will be approximately one (1) day with the contractor spending approximately 15 minutes per 10-foot section of well screen. KGI personnel will provide part-time observation during this task to monitor progress and verify that the proper procedures and equipment are employed.

Task 3.5 – Phase I Chemical Treatment (Surfactant and Polymer Dispersant)

KGI personnel will provide part-time observation during pre-development pumping and application of non-ionic surfactant and dispersant polymer to verify that the type, volume, and concentrations of chemicals utilized are consistent with the work plan, that proper dispersal techniques are employed by the Contractor, and that proper chemical removal and disposal techniques are used (as necessary). It is assumed that this process will occur over a period of three (3) days.

Task 3.6 – Phase II Chemical Treatment (Acid)

KGI personnel will provide full-time observation during mixing, application, neutralization, and removal of HCT Well-Klean Pre-Blend and sodium bicarbonate chemical products to verify that the type, volume, and concentrations of chemicals utilized are consistent with the work plan, that proper dispersal techniques are employed by the Contractor, and that proper chemical neutralization, removal, and disposal techniques are used (as necessary). It is assumed that this process will occur over a period of four (4) days.

Task 3.7 – Initial Redevelopment by Focused Intake Pumping and Swabbing

Well redevelopment is a critical phase of any well rehabilitation program. The goal is to remove as much residual material from the well as is considered practical, maximizing production rates and well efficiency, and minimizing production of entrained material (i.e., sand and silt). The first phase of well development is particularly critical and will consist of focused intake pumping through a double-surge block while simultaneously swabbing of the entire length of well screen in 10-foot increments. For each interval of screen, sand production will be measured immediately following swabbing, and as the discharge clears. Those intervals exhibiting significant sand production (i.e., greater than 1 ml/L) or high turbidity will be targeted for additional development on subsequent passes through the well screen.

KGI will provide full-time observation services during redevelopment by focused intake pumping and swabbing throughout all perforated intervals of the well. The amount of time allotted to the Contractor for this task is 30 hours over a period of three (3) to four (4) days. However, KGI will review data collected during the development process and provide real-time recommendations regarding the need for more or less development.

Task 3.8 – Post-Chemical Cleaning Downhole Video Survey

KGI will provide full-time observation and review of a post-cleaning dual-cam downhole video survey as a means of assessing and documenting the condition of the well following mechanical and chemical cleaning, and to allow an unobstructed view of any structural issues that may be present.

Task 3.9 – Final Redevelopment by Pumping and Surging

The final phase of well redevelopment consists of pumping and surging with a temporary test pump and motor to be furnished by the Contractor. During the final development process, pumping will begin at low rates, with no surging, slowly building to the maximum specified pumping rate (typically 1.5x the anticipated design pumping rate). Gentle surging will then begin at lower rates, becoming increasingly aggressive as development progresses. Tests for sand production and specific capacity will be performed throughout the process to measure the progress of development. Once specific capacity approaches a maximum, sand production approaches a minimum, and well performance criteria are met, development is considered complete and the aquifer pumping test phase can begin.

KGI will provide part-time observation during final well development. The amount of time allotted to the Contractor for this task is 30 hours over a period of three (3) to four (4) days. However, this can vary based on many factors, and as such, KGI will review data collected during final development and provide real-time recommendations regarding the need for additional development time.

Task 3.10 – Aquifer Pumping Tests

KGI will provide full-time observation during an 8-hour step-drawdown pumping test, the purpose of which is to allow calculation of well efficiency and determine an appropriate rate for the constant rate pumping test. During the test, static and pumping water levels, totalizer flowmeter readings, and sand production, will be measured at specified intervals.

Following the step-drawdown test, KGI will provide full-time observation during a 72-hour constant rate drawdown test and 8-hour recovery test, the purpose of which is to determine a recommended instantaneous pumping rate, allow calculation of short- and long-term pumping dynamics, and establish an optimal pump intake setting. As with the step drawdown test, totalizer flowmeter readings and sand production will be measured at specified intervals.

Task 3.11 – Water Quality Laboratory Coordination

KGI will perform all necessary coordination with the laboratory performing water quality analysis for this project. Coordination activities include obtaining sample bottles, collection of samples during time series, depth specific, and Title 22 wellhead sampling, and delivery of samples to the laboratory under chain of custody protocols.

Task 3.12 – Post-Rehabilitation Downhole Video Survey

KGI will provide full-time observation and review of a post-testing dual-cam downhole video survey as a means of assessing and documenting the condition of the well following rehabilitation.

Task 3.13 – Interim Well Disinfection

KGI will provide part-time observation during final disinfection of the well structure to verify that suitable chemicals, concentrations, and methods of mixing and emplacement are employed. It should be noted that this process is separate and distinct from final disinfection and bacteriological testing and will occur prior to installation of the permanent pumping equipment.

Thank you for considering our proposal and please do not hesitate to contact me at 626.379.7569 or russell.kyle@kylegroundwater.com should you have any questions or concerns. We welcome the opportunity to continue our mutually beneficial working relationship with MSWD.

Task 3.0 – Reporting

Task 3.1 – Analyze Aquifer Pumping Test Data and Prepare Letter Summary Report

A summary of the well rehabilitation, redevelopment, and testing process will be provided in letter report format. Data collected from the aquifer pumping tests will be analyzed immediately following completion. KGI will use the results of the analysis to make recommendations regarding optimal operational parameters, including instantaneous pumping rate, short- and long-term drawdown characteristics, well efficiency, and recommended pump intake setting. Results of water quality testing, including analysis of time series and depth specific sampling, as well as any recommendations stemming from these results, will also be included. Analysis, results, and recommendations will be presented to MSWD in the letter report with appropriate charts, figures, and data.

Sincerely,



Russell John Kyle, PG, CHG
President / Principal Hydrogeologist

MISSION SPRINGS WATER DISTRICT
Cost Proposal for Professional Hydrogeological Support Services
Rehabilitation, Redevelopment, and Testing of Well 28

		Principal Hydrogeologist	Senior Hydrogeologist	Project Hydrogeologist	Staff Hydrogeologist	GIS Technician	Project Coordinator	Labor	Direct Costs	Total Cost
<i>Hourly Rate:</i>		\$240	\$190	\$155	\$145	\$120	\$105			
1.0 PROJECT MANAGEMENT AND MEETINGS										
1.1	Provide General Project Management and Attend up to Three (3) Project Meetings, Including Pre-Construction Meeting	8	8				4	\$ 3,860	\$ 147	\$ 4,007
2.0 CONSTRUCTION MANAGEMENT AND SUPPORT										
2.1	Provide Construction Coordination and Support, Including Contractor Submittal Review, Response to RFIs and RFCs, Change Order Review, Schedule Review, Progress Payment Review	4	8	8	4			\$ 4,300	\$ -	\$ 4,300
3.0 FIELD OBSERVATION - REHABILITATION, REDEVELOPMENT, AND TESTING										
3.1	Observe Removal of Sediment and Debris		1	3	8			\$ 1,815	\$ 147	\$ 1,962
3.2	Observe Mechanical Cleaning by Brushing, Removal of Accumulated Sediment and Debris		1	6	16			\$ 3,440	\$ 294	\$ 3,734
3.3	Observe and Review Post-Mechanical Downhole Video Survey		1	3	6			\$ 1,525	\$ 147	\$ 1,672
3.4	Observe Preliminary Redevelopment by Focused Intake Pumping and Swabbing		2	6	12			\$ 3,050	\$ 294	\$ 3,344
3.5	Observe Phase I Chemical Treatment with Surfactant and Polymer Dispersant	1	2	9	24			\$ 5,495	\$ 441	\$ 5,936
3.6	Observe Phase II Chemical Treatment with Acid Solution	1	2	9	32			\$ 6,655	\$ 441	\$ 7,096
3.7	Observe and Review Post-Chemical Downhole Video Survey		1	3	6			\$ 1,525	\$ 147	\$ 1,672
3.8	Observe Initial Redevelopment by Focused Intake Pumping and Swabbing	1	2	12	32			\$ 7,120	\$ 588	\$ 7,708
3.9	Observe Final Redevelopment by Pumping and Surging	1	4	9	24			\$ 5,875	\$ 441	\$ 6,316
3.10	Observe Aquifer Pumping Tests (8-hour step drawdown, 72-hour constant rate, 8-hour recovery)	2	4	15	50			\$ 10,815	\$ 735	\$ 11,550
3.11	Coordinate with Laboratory, Collect and Deliver Time Series, Depth Specific, and Title 22 Water Quality Samples		2	3	8			\$ 2,005	\$ 147	\$ 2,152
3.12	Observe and Review Post-Rehabilitation Downhole Video Survey		1	3	6			\$ 1,525	\$ 147	\$ 1,672
3.13	Observe Well Disinfection		2	3	8			\$ 2,005	\$ 147	\$ 2,152
4.0 REPORTING										
4.1	Analyze Test Data and Prepare Summary Letter Report and Recommendations	2	8	12	16	2		\$ 6,420	\$ -	\$ 6,420
TOTAL HOURS AND COST:		18	41	92	236		4	\$ 61,010	\$ 4,263	\$ 65,273