



## United States Department of the Interior

U.S. GEOLOGICAL SURVEY  
California Water Science Center  
6000 J Street  
Sacramento, CA 95819

April 15, 2025

Patrick J. Martinez  
City Manager  
817 Third Street  
Needles, California 92363

Dear Mr. Martinez,

This letter confirms discussions between our respective staffs, on March 3, 2025, concerning the status and continuation of the cooperative water-resources between the City of Needles and the U.S. Geological Survey (USGS).

The purpose of this amendment is to extend the Period of Performance end date from April 30, 2025 to April 30, 2028. Total cost of the program to USGS over all fiscal years, remains at \$334,134.00. Total cost of the program to City of Needles over all fiscal years, remains at \$ 2,383,658.00.

The additional time will be used for the continuation of our cooperative study entitled: "Groundwater Flow and Estimation of Total Dissolved Solids Concentrations near the Lower Colorado Water Supply Project, Imperial County, California". Specific tasks shall include: (1) complete installation of shallow observation wells and estimate local seepage, (2) complete the hydrogeologic framework model, (3) complete the regional three-dimensional groundwater-flow and transport model to estimate future TDS concentrations, and (4) publish the hydrogeologic framework and groundwater-flow model reports, and associated Data Releases.

Attached is a digitally signed copy of Joint Funding Agreement (JFA) 22ZGJFA60101110\_01 for your approval. If you are in agreement with this proposed program, please sign and return an executed copy to [cawscagreements@usgs.gov](mailto:cawscagreements@usgs.gov). If you have any questions concerning the program described above, please contact Michael Land at [mtland@usgs.gov](mailto:mtland@usgs.gov). If you have any administrative questions, please contact [cawscagreements@usgs.gov](mailto:cawscagreements@usgs.gov).

Sincerely,

ANKE MUELLER-  
SOLGER

Digitally signed by ANKE  
MUELLER-SOLGER  
Date: 2025.04.16  
08:29:53 -07'00'

Anke Mueller-Solger  
Director, USGS California Water Science Center

Enclosure  
22ZGJFA60101110\_01

Form 9-1366  
(May 2018)

**U.S. DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**JOINT FUNDING AGREEMENT**

FOR

WATER RESOURCE INVESTIGATIONS

Customer #: 6000001011  
Agreement #: 22ZGJFA60101110\_01  
Project #: ZG00DWR  
TIN #: 95-6000750  
Fixed Cost  
Agreement NO

**THIS AGREEMENT is entered into as of the 15 day of April, 2025 by the U.S. GEOLOGICAL SURVEY, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the CITY OF NEEDLES, party of the second part.**

1. The parties hereto agree that subject to availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation Lower Colorado Water Supply Project TDS (Phase 2 & 3) herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50; and 43 USC 50b.
2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) includes In-Kind Services in the amount of \$0.00

(a) by the party of the first part during the period

Amount	Date	to	Date
\$334,134.00	November 1, 2021		April 30, 2028

(b) by the party of the second part during the period

Amount	Date	to	Date
\$2,383,658.00	November 1, 2021		April 30, 2028

USGS DUNS is 1761-38857. Total funding for this agreement, including this amendment is \$2,717,792.00. The total USGS portion (2a) of this agreement, including this amendment is \$ 334,134.00; total City of Needles portion (2b), including this amendment is \$ 2,383,658.00.

(c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$0.00

Description of the USGS regional/national program:  
No additional contributions

(d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.

(e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.
4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.
5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.
6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

**9-1366 (Continuation)****Customer #:**

6000001011

**Agreement #:**

22ZGJFA60101110

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.
8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties.
- The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (<https://www2.usgs.gov/fsp/>).
9. Billing for this agreement will be rendered.
- QUARTERLY
- Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

**U.S. Geological Survey**  
**United States**  
**Department of the Interior**  
**USGS Point of Contact**

**Name:** Tina Dale, Supervisory Budget Analyst  
**Address:** USGS, CA Water Science Center  
 6000 J Street, Placer Hall Sacramento,  
 CA 95819  
**Telephone:** 978-627-6161  
**Email:** tdale@usgs.gov

**CITY OF NEEDLES****Customer Point of Contact**

**Name:** Rainie Torrance  
**Address:** 817 Thrd Street, Needles, CA 92263  
**Telephone:**  
**Email:**

**Signatures and Date**

**Signature:** ANKE  
 MUELLER-  
 SOLGER

Digitally signed by ANKE  
 MUELLER-SOLGER  
 Date: 2025.04.16  
 08:30:52 -0700

**Date:****Signature:****Date:**

**Name:** Anke Mueller-Solger  
**Title:** Director, USGS CA Water Science Center

**Name:** Patrick J. Martinez  
**Title:** City Manager