



United States Department of the Interior

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

August 29, 2024

Kevin Booker
Water Agency Engineer
Sonoma County Water Agency
404 Aviation Boulevard
Santa Rosa, CA 95403

Dear Kevin Booker:

Attached is the Joint Funding Agreement (JFA) 25ZGJFA01000014, signed by our agency, for your approval to enact the cost changes to the project(s) California Water Science Center Water Resources Investigations, during the period October 1, 2024 through September 30, 2025 in the amount of \$709,970 from your agency. U.S. Geological Survey contributions for this agreement are \$44,100 for a combined total of \$754,070. If you are in agreement with this proposed program, please return the fully executed signed copy to CAgagAdmin@usgs.gov (preferred) or send one fully executed paper copy to Jonathan Esposito at the address in the letter head

Federal law requires that we have a signed agreement before we start or continue work. Please return the signed agreement by **October 1, 2024**. If, for any reason, the agreement cannot be signed and returned by the date shown above, please contact Andrew Watson at (707) 468-4042 or email afwatson@usgs.gov to make alternative arrangements.

This is a fixed cost agreement to be billed quarterly via Down Payment Request (automated Form DI-1040). Please allow 30-days from the end of the billing period for issuance of the bill. If you experience any problems with your invoice(s), please contact Jonathan Esposito at phone number (916) 278-3000 or jesposito@usgs.gov.

The results of all work performed under this agreement will be available for publication by the U.S. Geological Survey. We look forward to continuing this and future cooperative efforts in these mutually beneficial water resources studies.

Sincerely,

ANKE MUELLER-
SOLGER

Digitally signed by ANKE
MUELLER-SOLGER
Date: 2024.08.29
14:07:05 -07'00'

Anke Mueller-Solger
Director, USGS California Water Science Center

Enclosure
Detailed Summary

**Form 9-1366
(May 2018)**

**U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations**

**Customer #: 600000828
Agreement #: 25ZGJFA01000014
Project #: ZG00GZV
TIN #: 94-6000539**

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of the October 1, 2024, by the U.S. GEOLOGICAL SURVEY, California Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the Sonoma County Water Agency party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation for negotiated deliverables (see attached), 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) include In-Kind-Services in the amount of \$0.00

- (a) \$44,100 by the party of the first part during the period October 1, 2024 to September 30, 2025
- (b) \$709,970 by the party of the second part during the period October 1, 2024 to September 30, 2025
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$0

Description of the USGS regional/national program:

- (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.

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://www.usgs.gov/office-of-science-quality-and-integrity/fundamental-science-practices>).

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR

Customer #: 600000828
Agreement #: 25ZGJFA01000014
Project #: ZG00GZV
TIN #: 94-6000539

Water Resource Investigations

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.

USGS Technical Point of Contact

Name: Andrew Watson
Supervisory Hydrologic Technician
Address: 2550 No. State Street Suite 1
Ukiah, CA 95482
Telephone: (707) 468-4042
Fax: (707) 468-4022
Email: afwatson@usgs.gov

Customer Technical Point of Contact

Name: Kevin Booker
Water Agency Engineer
Address: 404 Aviation Boulevard
Santa Rosa, CA 95403
Telephone: (707) 521-1865
Fax: (n/a)
Email: Kevin.Booker@scwa.ca.gov

USGS Billing Point of Contact

Name: Jonathan Esposito
Budget Analyst
Address:
Telephone:
Fax: (n/a)
Email: jesposito@usgs.gov


Customer Billing Point of Contact

Name: Kevin Booker
Water Agency Engineer
Address: 404 Aviation Boulevard
Santa Rosa, CA 95403
Telephone: (707) 521-1865
Fax: (n/a)
Email: Kevin.Booker@scwa.ca.gov

U.S. Geological Survey
United States
Department of Interior

Sonoma County Water Agency

Signature

ANKE
MUELLER-
By SOLGER  Digitally signed by ANKE
MUELLER-SOLGER
Date: 2024.08.29
14:07:36 -07'00' Date: _____
Name: Anke Mueller-Solger
Title: Director, USGS California Water Science
Center

Signatures

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

Sonoma County Water Agency

Attachment for 25ZGJFA01000014
2024-10-01 to 2025-09-30

SURFACE WATER

| SITE NUMBER | DESCRIPTION | CODE | NO. UNITS | DIFF FACTOR | USGS FUNDS | CUST. CASH | OTHER FUNDS | TOTAL COST |
|-------------|--|--------------|-----------|------------------|------------|------------|-------------|-----------------|
| ***** | Discharge, Measurement | QMEAS | 40 | 1 | | \$14,800 | | |
| | Discharge, Measurement | QMEAS | 37 | 1 | | (\$14,000) | | |
| | | | | SW Total: | | | | \$800 |
| 11458433 | SONOMA CREEK A KENWOOD CA Full Range Streamflow Station | QCONT | 1 | 1 | \$7,350 | \$19,360 | | \$26,710 |
| 11458500 | SONOMA C A AGUA CALIENTE CA Full Range Streamflow Station | QCONT | 1 | 1 | | \$13,940 | | \$13,940 |
| 11458600 | NATHANSON C A SONOMA CA Full Range Streamflow - Seasonal | QCONT-SEASON | 1 | 1 | | \$16,750 | | \$16,750 |
| 11461500 | EF RUSSIAN R NR CALPELLA CA Full Range Streamflow Station | QCONT | 1 | 1 | \$7,350 | \$19,360 | | \$26,710 |
| 11462080 | RUSSIAN R NR TALMAGE CA Full Range Streamflow Station | QCONT | 1 | 1 | | \$13,940 | | \$13,940 |
| 11463000 | RUSSIAN R NR CLOVERDALE CA Full Range Streamflow Station | QCONT | 1 | 1 | \$7,350 | \$19,360 | | \$26,710 |
| 11463200 | BIG SULPHUR C NR CLOVERDALE CA Full Range Streamflow Station | QCONT | 1 | 1 | | \$27,880 | | \$27,880 |
| 11463500 | RUSSIAN R A GEYSERVILLE CA Full Range Streamflow Station | QCONT | 1 | 1 | | \$27,880 | | \$27,880 |
| 11463682 | RUSSIAN R A JIMTOWN CA Full Range Streamflow Station | QCONT | 1 | 1 | | \$27,880 | | \$27,880 |
| 11463900 | MAACAMA C NR KELLOGG CA Full Range Streamflow Station | QCONT | 1 | 1 | | \$27,880 | | \$27,880 |
| 11463980 | RUSSIAN R A DIGGER BEND NR HEALDSBURG CA Partial range streamflow O&M | QPART | 1 | 1 | | \$16,750 | | \$16,750 |
| 11464000 | RUSSIAN R NR HEALDSBURG CA Full Range Streamflow Station | QCONT | 1 | 1 | | \$20,910 | | \$20,910 |
| 11465240 | DRY C BLW LAMBERT BR NR GEYSERVILLE CA Full Range Streamflow Station | QCONT | 1 | 1 | | \$27,880 | | \$27,880 |
| 11465350 | DRY C NR MOUTH NR HEALDSBURG CA Full Range Streamflow Station | QCONT | 1 | 1 | | \$27,880 | | \$27,880 |
| 11465390 | RUSSIAN R NR WINDSOR CA Full Range Streamflow - Seasonal | QCONT-SEASON | 1 | 1 | | \$16,750 | | \$16,750 |
| 11465660 | COPELAND C A ROHNERT PARK CA Full Range Streamflow - Seasonal | QCONT-SEASON | 1 | 1 | | \$16,750 | | \$16,750 |

| | | | | | | | |
|------------------------|---|---------------|---|---|-----------------|------------------|------------------|
| 11465680 | LAGUNA DE SANTA ROSA A STONY PT RD NR COTATI CA Full Range Streamflow Station | QCONT | 1 | 1 | \$7,350 | \$19,360 | \$26,710 |
| 11465690 | COLGAN C NR SANTA ROSA CA Full Range Streamflow - Seasonal | QCONT-SEASON | 1 | 1 | | \$16,750 | \$16,750 |
| 11465700 | COLGAN C NR SEBASTOPOL CA Full Range Streamflow Station | QCONT | 1 | 1 | \$7,350 | \$19,360 | \$26,710 |
| 11465820 | SANTA ROSA C DIV A VORTEX NR SANTA ROSA CA Stage, Measurement, Crest Stage Gage | STGMEAS-CREST | 1 | 1 | | \$5,820 | \$5,820 |
| 11465821 | SANTA ROSA C DIV A ORIFICE NR SANTA ROSA CA Stage, Measurement, Crest Stage Gage | STGMEAS-CREST | 1 | 1 | | \$5,820 | \$5,820 |
| 11466065 | BRUSH C A SANTA ROSA CA Stage, Measurement, Crest Stage Gage | STGMEAS-CREST | 1 | 1 | | \$5,820 | \$5,820 |
| 11466150 | MATANZAS C RES OUTFLOW NR SANTA ROSA CA Stage, Measurement, Crest Stage Gage | STGMEAS-CREST | 1 | 1 | | \$5,820 | \$5,820 |
| 11466170 | MATANZAS C A SANTA ROSA CA Full Range Streamflow - Seasonal | QCONT-SEASON | 1 | 1 | | \$16,750 | \$16,750 |
| 11466200 | SANTA ROSA C A SANTA ROSA CA Full Range Streamflow - Seasonal | QCONT-SEASON | 1 | 1 | | \$16,750 | \$16,750 |
| 11466800 | MARK WEST C NR MIRABEL HEIGHTS CA Full Range Streamflow Station | QCONT | 1 | 1 | | \$27,880 | \$27,880 |
| 11467002 | RUSSIAN R A JOHNSONS BEACH A GUERNEVILLE CA Seasonal stage gage | STAGE-SEASON | 1 | 1 | | \$9,750 | \$9,750 |
| 11467200 | AUSTIN C NR CAZADERO CA Full Range Streamflow Station | QCONT | 1 | 1 | \$7,350 | \$19,360 | \$26,710 |
| 11467270 | RUSSIAN R A HIGHWAY 1 BRIDGE NR JENNER CA Stage, Continuous | STGCONT | 1 | 1 | | \$9,750 | \$9,750 |
| SW Grand Total: | | | | | \$44,100 | \$520,940 | \$565,040 |

Sonoma County Water Agency
25ZGJFA01000014 (continued)

GROUND WATER

| SITE NUMBER | DESCRIPTION | CODE | NO. UNITS | DIFF FACTOR | USGS FUNDS | CUST. CASH | OTHER FUNDS | TOTAL COST |
|-----------------|-------------------------------|--------|--------------|------------------------|---------------|-----------------|----------------|-----------------|
| 11463500 | RUSSIAN R A GEYSERVILLE CA | | | | | | | |
| | Groundwater level, Continuous | GWCONT | 1 | 1 | | \$9,750 | | |
| | Groundwater level, Continuous | GWCONT | 1 | 1 | | (\$9,200) | | |
| | | | | GW Total: | | | | \$550 |
| 383930122494801 | 009N009W02F001M | | | | | | | |
| | Groundwater level, Continuous | GWCONT | 1 | 1 | | \$9,750 | | |
| | | | | | | | | |
| | | | | GW Total: | | | | \$9,750 |
| | | | | GW Grand Total: | | \$10,300 | | \$10,300 |

**Sonoma County Water Agency
25ZGJFA01000014 (continued)**

WATER QUALITY

| SITE NUMBER | DESCRIPTION | CODE | NO. UNITS | DIFF FACTOR | USGS FUNDS | CUST. CASH | OTHER FUNDS | TOTAL COST |
|-------------|--|--------|-----------|------------------------|------------|------------------|-------------|------------------|
| 11458433 | SONOMA CREEK A KENWOOD CA Water Quality, Continuous | WQCONT | 1 | 1 | | \$13,000 | | |
| | | | | WQ Total: | | | | \$13,000 |
| 11461500 | EF RUSSIAN R NR CALPELLA CA Water Quality, Continuous | WQCONT | 1 | 1 | | \$3,220 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$3,170 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$13,000 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$10,390 | | |
| | | | | WQ Total: | | | | \$29,780 |
| 11462500 | RUSSIAN R NR HOPLAND CA Water Quality, Continuous | WQCONT | 1 | 1 | | \$3,220 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$3,170 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$13,000 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$10,390 | | |
| | | | | WQ Total: | | | | \$29,780 |
| 11463000 | RUSSIAN R NR CLOVERDALE CA Water Quality, Continuous | WQCONT | 1 | 1 | | \$1,610 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$2,740 | | |
| | | | | WQ Total: | | | | \$4,350 |
| 11463500 | RUSSIAN R A GEYSERVILLE CA Water Quality, Continuous | WQCONT | 1 | 1 | | \$5,480 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | (\$5,170) | | |
| | | | | WQ Total: | | | | \$310 |
| 11463682 | RUSSIAN R A JIMTOWN CA Water Quality, Continuous | WQCONT | 1 | 1 | | \$1,610 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$1,590 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$6,500 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$10,180 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$2,190 | | |
| | | | | WQ Total: | | | | \$22,070 |
| 11463980 | RUSSIAN R A DIGGER BEND NR HEALDSBURG CA Water Quality, Continuous | WQCONT | 1 | 1 | | \$3,220 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$3,170 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$13,000 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$10,390 | | |
| | | | | WQ Total: | | | | \$29,780 |
| 11465240 | DRY C BLW LAMBERT BR NR GEYSERVILLE CA Water Quality, Continuous | WQCONT | 1 | 1 | | \$1,610 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$1,590 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$6,500 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$10,180 | | |
| | | | | WQ Total: | | | | \$19,880 |
| 11467000 | RUSSIAN R A HACIENDA BRIDGE NR GUERNEVILLE CA Water Quality, Continuous | WQCONT | 1 | 1 | | \$3,220 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$3,170 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$10,390 | | |
| | Water Quality, Continuous | WQCONT | 1 | 1 | | \$13,000 | | |
| | | | | WQ Total: | | | | \$29,780 |
| | | | | WQ Grand Total: | | \$178,730 | | \$178,730 |

SUMMARY FOR

| TYPE | USGS FUNDS | CUST. CASH | OTHER FUNDS | TOTAL COST |
|--------------------|------------|------------|-------------|------------|
| SURFACE WATER (SW) | \$44,100 | \$520,940 | | \$565,040 |
| GROUND WATER (GW) | | \$10,300 | | \$10,300 |
| WATER QUALITY (WQ) | | \$178,730 | | \$178,730 |
| GRAND TOTAL | | | | \$754,070 |