Board Contract Summary



For use with Expenditure Contracts submitted to the Board for approval. Complete information below, print, obtain signature of authorized departmental representative, and submit this form, along with attachments, to the appropriate departments for signature. See also: *Auditor-Controller Intranet Policies->Contracts*.

D1.	Fiscal Year	
D2.	Department Name	PW/Water Agency
D3.	Contact Person	Fray Crease
D4.	Telephone	ext. 3542
		,
K1.	Contract Type (check one): Personal Service Capit	
K2.	Brief Summary of Contract Description/Purpose	San Antonio Groundwater Basin Study
K3.	Department Project Number	
K4.	Original Contract Amount	\$ 673,950
K5.	Contract Begin Date	
K6.	Original Contract End Date	10/31/19
K7.	Amendment? (Yes or No)	···· Yes
K8.	- New Contract End Date	12/2/12/2
K9.	- Total Number of Amendments	
K10.	- This Amendment Amount	
K11.	- Total Previous Amendment Amounts	
K12.	- Revised Total Contract Amount	\$ \$1,647,810
D4	Literate I Broad Asserts Date	1.1.0.0040
B1.	Intended Board Agenda Date	
B2.	Number of Workers Displaced (if any)	···· N/A
B3.	Number of Competitive Bids (if any)	
B4.	Lowest Bid Amount (if bid)	
B5.	If Board waived bids, show Agenda Date	
DC	and Agenda Item Number	
B6.	Boilerplate Contract Text Changed? (If Yes, cite Paragraph)	N/A
F1.	Fund Number	3050
F2.	Department Number	054
F3.	Line Item Account Number	7460
F4.	Project Number (if applicable)	WA8236
F5.	Program Number (if applicable)	3012
F6.	Org Unit Number (if applicable)	
F7.	Payment Terms	
		200004
V1.	Auditor-Controller Vendor Number	
V2.	Payee/Contractor Name	D O D 74000
V3.	Mailing Address	
V4.	City State (two-letter) Zip (include +4 if known)	(0.10) 070 00.10
V5.	Telephone Number	
V6.	Vendor Contact Person	
V7.	Workers Comp Insurance Expiration Date	
V8.	Liability Insurance Expiration Date	
V9.	Professional License Number	
V10	Verified by (print name of county staff)	
V11		oprietorship Partnership Corporation
l certi	fy information is complete and accurate; designated funds availa	ble; required concurrences evidenced on signature page.
Date:	Authorized Signature:	Typh UMUL Revised 1/13/2014

Form 9-1366 (May 2018)

U.S. DEPARTMENT OF THE INTERIOR

JOINT FUNDING AGREEMENT

GEOLOGICAL SURVEY

Customer #: Agreement #: 6000000816

Project #:

15WSCA600081610 A5

TIN #:

ZG00FUV 96-6002833

Fixed Cost

Agreement

NO

FOR

WATER RESOURCES INVESTIGATIONS

THIS AGREEMENT is entered into as of the, 29th day of May, 2018 by the U.S. GEOLOGICAL SURVEY, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the SANTA BARBARA COUNTY WATER AGENCY (SBCWA), 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 Geohydrology and Water Availability of San Antonio Creek Valley, California 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
 - by the party of the first part during the period

Amount

Date

to

Date October 31, 2020

\$1,385.00 November 1, 2014 by the party of the second part during the period

Amount

Date

to

Date

\$13,854.00

November 1, 2014

October 31, 2020

USGS DUNs is 1761-38857. Total USGS fundiing for this agreement, including this amendment is \$352,627. Total SBCWA funding for this agreement, including this amendment is \$1647,810. Total cost of this agreement is \$2,000,437.00

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 funding

- 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.
- The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.
- The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.
- 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.
- 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 #:

6000000816

Agreement #:

15WSCA600081610 A5

- The original records resulting from this program will be deposited in the office of origin of those 7. records. Upon request, copies of the original records will be provided to the office of the other party.
- The maps, records or reports resulting from this program shall be made available to the public as 8. 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**

Santa Barbara County Water Agency

Department of the Interior

USGS Point of Contact

Customer Point of Contact

Name:

Irene A. Rios, Budget Analyst

Name:

Thomas Fayram

Address:

4165 Spruance Rd., Ste 200

Address:

130 East Victoria Street, Ste 200

Santa Barbara, CA 93101

San Diego, CA 92101

Telephone:

805-568-6436

Telephone: Email:

619-225-6156 iarios@usgs.gov

Email:

tfayram@cosbpw.net

See page

Signatures and Date

Signature:

Date:

Signature:

Date:

Name:

Name:

Title:

Director, USGS, CA Water Science Center

Title:

Joint Funding Agreement No. 15WSCA600081610_A5 Signature Page Continued – Page 3

SANTA BARBARA COUNTY WATER AGENCY
BY: Steve Lavagnino, Chair, Board of Directors
Date:
ATTEST:
APPROVED AS TO FORM: MONA MIYASATO County Executive Officer Ex Officio Clerk of the Board of Directors of the Santa Barbara County Water Agency
BY: Deputy Clerk
RECOMMENDED FOR APPROVAL: Santa Barbara County Water Agency
BY: Scott D. McGolpin, Public Works Director
APPROVE AS TO ACCOUNTING FORM: BETSY M. SCHAFFER, CPA AUDITOR-CONTROLLER
BY: C. E. L. Deputy

APPROVE AS TO FORM: RAY AROMATORIO, ARM, AIC RISK MANAGER

Y:_____Risk Manager

APPROVE AS TO FORM: MICHAEL C. GHIZZONI COUNTY COUNSEL

Deputy



United States Department of the Interior

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

Phone: (916) 278-3026 Fax: 916) 278-3045 http://water.wr.usgs.gov

May 29, 2019

Mr. Thomas D. Fayram
Deputy Director of Public Works, Water Resources
Santa Barbara County Water Agency
130 East Victoria Street, Suite 200
Santa Barbara, CA. 93101

Attention: Mr. Matthew Scrudato

Dear Mr. Fayram:

This letter confirms discussions between our respective staffs, concerning the continuation of the cooperative water resources program between the Santa Barbara County Water Agency (SBCWA) and the U.S. Geological Survey (USGS), during the period October 1, 2014 to October 31, 2020.

The purpose of this amendment is to detail funding covering the next phase of the study.

As described in *Geohydrology and Water Availability of the San Antonio Creek Valley* (study), the study is a cooperative study between the County of Santa Barbara, Vandenberg Air Force Base (VAFB), and the U.S. Geological Survey (USGS). The objectives of the study are to:

- 1) refine the geohydrologic framework of the San Antonio Creek Valley;
- 2) quantify the hydrologic budget of the valley; and
- 3) develop hydrologic modeling tools to evaluate and aid in managing the groundwater resource.

The study will provide hydrologic information needed by Santa Barbara County Water Agency and VAFB to better understand the potential impacts of increasing groundwater use on groundwater levels, stream-aquifer interaction, and water quality, and help develop a management and monitoring plan to evaluate the potential hydrologic effects of future groundwater development on different parts of the valley.

The study is currently planned as a 6-year project starting October 1, 2014 through September 30, 2020. The study includes five main tasks: (1) data compilation, (2) new data acquisition, including an assessment of water quality, (3) model development, (4) analysis of water availability, and (5) report preparation. Work has commenced, on all tasks; work started to date includes the following:

- 1) Existing climate, land-use, geologic, water-quality, and geodetic data have been compiled and assembled into a Geographic Information System (GIS) (Task 1).
- 2) Existing water-quality data have been compiled (Task 1).

Mr. Thomas D. Fayram, Deputy Director, Santa Barbara County Water Agency

- A previously operated, but discontinued, stream gage at San Antonio Creek near Casmalia (11136100) was reinstalled and was monitored as part of this project into December 2018 (Task 2).
- 4) A new stream gage on Harris Creek was installed and was monitored into December, 2018 (Task 2).
- Multiple-well site 008N034W16C001-4 has been instrumented with pressure transducers and is transmitting water-level data in real time (Task 2).
- 6) Eight shallow monitoring wells and two deep multiple-well monitoring sites have been installed.
- 7) Continuous water-level measurements are being recorded in 18 monitoring wells.
- 8) Twenty-six stream-bed electrical resistance sensors and three temperature sensor rods were deployed and were monitored into March 2019 (Task 2).
- 9) Quarterly measurements of wells (about 25) that are part of the existing USGS groundwater-level monitoring network continued (Task 2).
- 10) Additional wells (about 12) have been canvased and added to the quarterly groundwater-level monitoring network (Task 2).
- Groundwater geochemistry samples from 27 wells have been collected and analyzed (Task 2).
- 12) Construction of the preliminary 3-dimensional (3D) geohydrologic framework for the groundwater model has been completed (Task 3).
- The project website has been built and is accessible at: https://ca.water.usgs.gov/projects/san-antonio-creek/index.html.
- 14) Infiltrometer tests have been collected and processed at 12 locations (Task 2).
- 15) Aquifer/slug tests have been collected on all monitoring wells (16 wells) installed as part of this study (Task 2).
- Differential GPS measurements were taken to establish vertical geodetic control at all accessible wells in the monitoring network (Task 2).
- 17) Preliminary watershed recharge model has been completed (Task 3).
- Preliminary groundwater flow model and integrated hydrologic model development and calibration is underway (Task 3).
- Report preparation is underway for infiltrometer analysis, 3D geohydrologic framework model, and hydrologic-system evaluation (Task 5)

Total costs for the proposed amendment with SBCWA for CFY 2020 is \$15,239. Of this total SBCWA will contribute \$13,854 and subject to the availability of cooperative matching funds (CMF), the USGS will contribute \$1,385. The proposed program cost associated with this amendment are presented in Table 1. Total agreement cost through this amendment is \$2,000,437, total SBCWA including this amendment, is \$1,647,810, total contribution by USGS is \$352,627 The updated project timeline is presented in Table 2. The planned funding through the end of the study is presented in Table 3.

Mr. Thomas D. Fayram, Deputy Director, Santa Barbara County Water Agency

Enclosed are two originals of Joint Funding Agreement (JFA) 15WSCA600081610 Amendment 5 for your approval. Work performed with funds from this agreement will be conducted on a reimbursable basis. If you are in agreement with this proposed amendment, please return one copy of the JFA with original signatures to our office for further processing. The second copy of the JFA is for your files.

If you have any questions concerning this program, please contact Geoff Cromwell, in our Santa Maria Field Office, at (805) 928-9539 x11. If you have any administrative questions, please contact Irene Rios, in our San Diego Office, at (619) 225-6156.

Sincerely,

Eric G. Reichard

Director, USGS California Water Science Center

Enclosures

cc:

Claudia Faunt, USGS CA WSC Geoff Cromwell, USGS CA WSC

Table 1. Geohydrology and Water Availability of the San Antonio Creek Valley, California

2020 Funding Summary

		Year*		2019	1
Task #	Task Description Organiza	ation:	SB Co	USGS**	Total
1	Data Compilation (total)		\$0	\$0	\$0
•	Originally budgeted costs		\$0	\$0	\$0
	Information requests, communications, and analysis		\$0	\$0	\$0
2	New Data Acquisition		\$0	\$0	\$0
Α	Drilling & well installation				
i	Two multiple well monitoring sites		\$0	\$0	\$0
ii	Auger drilling of shallow wells		\$0	\$0	\$0
В	Groundwater levels				
i	Well canvassing		\$0	\$0	\$0
ii	Expanded GW level monitoring	,	\$0	\$0	\$0
iii	GW level recorders		\$0	\$0	\$0
iv	Measuring point elevations-GPS		\$0	\$0	\$0
С	Streamflow gaging		\$0	\$0	\$0
D	Groundwater/surface-water interaction				
i	Temperature monitoring - GW/SW fluxes		\$0	\$0	\$0
ii	Streamflow duration & location		\$0	\$0	\$0
iii	Streambed infiltration tests		\$0	\$0	\$0
Ε .	Water-Quality sampling		\$0	\$0	\$0
F	Hydraulic properties & profiles data			7	
i	Collect new slug & aquifer tests		\$0	\$0	\$0
ii	EM & temperature logging		\$0	\$0	\$0
3	Model Development		\$0	\$0	\$0
4	Water Availability Analysis		\$0	\$0	\$0
5	Reporting		\$13,854	\$1,385	\$15,239
i	Project Website	, 1	\$2,575	\$258	\$2,833
ii	Water quality article		\$0	\$0	\$0
iii	Hydrogeologic Setting JA / Infiltrometer JA		\$3,554	\$355	\$3,909
iv	Hydrologic modeling SIR / Water Availability SIR / Fac	t sheet	\$7,725	\$773	\$8,498
TOTAL		T	\$13,854	\$1,385	\$15,239

^{*}Yearly costs are by county fiscal year (CFY) for Santa Barbara County (SB Co).

^{**}Cooperative matching funds are subject to availability and are awared by Federal Fiscal Year.

Table 2. Geohydrology and Water Availability of the San Antonio Creek Valley, California - Workplan

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1	Data compilation/analysis	. ,	3 ×	3 ×	ž×	3	3	3	\$	1	7	7	3	3	3	3	3	7		t
2	New data collection		-	-	_		T	\vdash	H	-	-	-	L				T	\vdash	\vdash	Г
4	Drilling and well installation									-		-								
	Two multiple well monitoring sites					×				-		100								
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В	Groundwater levels		7							-	-	-	_						\dashv	
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×	Scheduled Task
×	Completed Task
×	Orininally Scheduled Task (shifted to later date)
×	Extneded Completion Date (shifted from earlier date)