

Board Contract Summary

BC _____

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	FY 17-18
D2.	Department Name	Water Agency
D3.	Contact Person	Matt Scrudato
D4.	Telephone	x3582

K1.	Contract Type (check one): <input checked="" type="checkbox"/> Personal Service <input type="checkbox"/> Capital	
K2.	Brief Summary of Contract Description/Purpose	Cooperative Groundwater Program
K3.	Department Project Number	WA8207
K4.	Original Contract Amount	\$ 125.573
K5.	Contract Begin Date	11/1/17
K6.	Original Contract End Date	10/31/18
K7.	Amendment? (Yes or No)	No
K8.	- New Contract End Date	
K9.	- Total Number of Amendments	
K10.	- This Amendment Amount	\$
K11.	- Total Previous Amendment Amounts	\$
K12.	- Revised Total Contract Amount	\$

B1.	Intended Board Agenda Date	11/7/17
B2.	Number of Workers Displaced (if any)	N/A
B3.	Number of Competitive Bids (if any)	N/A
B4.	Lowest Bid Amount (if bid)	N/A
B5.	If Board waived bids, show Agenda Date	N/A
	and Agenda Item Number	N/A
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)	WA8207
F5.	Program Number (if applicable)	3012
F6.	Org Unit Number (if applicable)	
F7.	Payment Terms	billed quarterly (net 60)

V1.	Auditor-Controller Vendor Number	003601
V2.	Payee/Contractor Name	DOI USGS
V3.	Mailing Address	P.O. Box 71362
V4.	City State (two-letter) Zip (include +4 if known)	Philadelphia, PA 19176-1362
V5.	Telephone Number	(916) 278-3040
V6.	Vendor Contact Person	Tamara Seubert
V7.	Workers Comp Insurance Expiration Date	N/A
V8.	Liability Insurance Expiration Date	N/A
V9.	Professional License Number	
V10.	Verified by (print name of county staff)	

V11 Company Type (Check one): Individual Sole Proprietorship Partnership Corporation

I certify information is complete and accurate; designated funds available; required concurrences evidenced on signature page.

Date: 10-7-17 Authorized Signature: 

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

Agreement#: 18WSCA03910
Customer#: 600000816
Project #: ZG00GZV
TIN #: 95-6002833
USGS DUNS #: 1761-38857

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of the November 1, 2017, by the U.S. GEOLOGICAL SURVEY, California Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the SANTA BARBARA 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 cooperative water resources investigations in the Santa Barbara County area as outlined in the USGS program letter dated October 17, 2017 (Attachment A), 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) \$29,750.00 by the party of the first part during the period November 1, 2017 to October 31, 2018
- (b) \$125,573.00 by the party of the second part during the period November 1, 2017 to October 31, 2018
- (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:
Not Applicable

- (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.

9. USGS will issue billings utilizing Department of the Interior Bill for Collection (form DI-1040). Billing documents are to be rendered quarterly. Payments of bills are due within 60 days after the billing date. If not paid by the due date, interest will be charged at the current Treasury rate for each 30 day period, or portion thereof, that the payment is delayed beyond the due date. (31 USC 3717; Comptroller General File B-212222, August 23, 1983.)

Form 9-1366
(April 2015)

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

Agreement#: 18WSCA03910
Customer#: 6000000816
Project #: ZG00GZV
TIN #: 95-6002833
USGS DUNS #: 1761-38857

USGS Technical Point of Contact

Name: Stuart Hill
Supervisory Hydrologic Technician
Address: 3130 Skyway Drive, Suite 602
Santa Maria, CA 93455
Telephone: (805) 928-9539
Fax: (805) 928-9220
Email: sahill@usgs.gov

Customer Technical Point of Contact

Name: Thomas D. Fayram
Deputy Public Works Director
Address: 130 East Victoria Street, Suite 200
Santa Barbara, CA 93101
Telephone:
Fax:
Email:

USGS Billing Point of Contact

Name: Tamara Seubert
Budget Analyst
Address: Placer Hall 6000 J Street
Sacramento, CA 95819
Telephone: (916) 278-3040
Fax: (916) 278-3070
Email: tseubert@usgs.gov

Customer Billing Point of Contact


Name: Matthew C. Scrudato
Senior Hydrologist
Address: 130 East Victoria Street, Suite 200
Santa Barbara, CA 93101
Telephone: (805) 568-3542
Fax:
Email: mscruda@cosbpw.net

U.S. Geological Survey
United States
Department of Interior

SANTA BARBARA COUNTY
WATER AGENCY

Signature

See signatures on page 3

By  Date: 10/17/2017
Name: Eric G. Reichard
Title: Director, USGS California Water Science
Center

Signature Page Continued - Page 3

SANTA BARBARA COUNTY WATER AGENCY

BY: _____
Joan Hartmann, 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

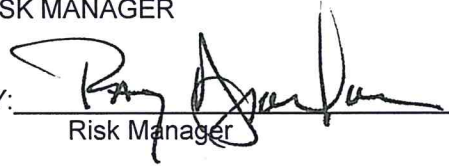
RECOMMENDED FOR APPROVAL:
Santa Barbara County Water Agency

BY:  _____
Scott D. McGolpin,
Public Works Director

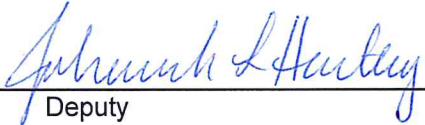
APPROVE AS TO ACCOUNTING FORM:
THEODORE A. FALLATI, CPA
AUDITOR-CONTROLLER

BY:  _____
Deputy

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

BY:  _____
Risk Manager

APPROVE AS TO FORM:
MICHAEL C. GHIZZONI
COUNTY COUNSEL

BY:  _____
Deputy



Attachment A
United States Department of the Interior

U.S. GEOLOGICAL SURVEY

California Water Science Center
6000 J Street, Placer Hall
California State University
Sacramento, California 95819-6129
Phone: (916) 278-3000 Fax: (916) 278-3070
<https://ca.water.usgs.gov>

October 17, 2017

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

Dear Mr. Fayram:

This letter confirms discussions between the Santa Barbara County Water Agency (SBCWA) and the U.S. Geological Survey (USGS), concerning the continuation of the water resources program for the period November 1, 2017 to October 31, 2018. This program letter serves as "Attachment A" for Joint Funding Agreement (JFA) 18WSCA03910.

The proposed program for this period and associated costs are as follows:

A. Groundwater Monitoring Program:

1. Water-level monitoring

The USGS will conduct monitoring of approximately 243 wells in the spring and approximately 57 wells in the fall as part of the County-wide wide monitoring program described by lists A-1 and A-2 files.

The program continues to evolve as groundwater level and quality sites are lost each year due to abandonment by legal owner, obstruction, denied access, etc. (List C). Water-level and water-quality sites need to be evaluated on an ongoing basis to ascertain that the program is collecting the best data and is as cost efficient as possible. Water Agency staff will assist the USGS staff on an annual basis to complete this task.

2. Biannual water-level monitoring in March and October to meet California Statewide Groundwater Elevation Monitoring (CASGEM) requirements.

Water-levels will be monitored at 9 wells described by List A-3.

Note: A credit will be given for any wells USGS is not able to visit, at a rate of \$185 per well and applied to the 2019 program letter.

A. Groundwater Monitoring Program (continued):

3. Water-quality monitoring

In 1981, a groundwater quality network was reestablished in selected basins of Santa Barbara County (List B). Water samples from 20 of the wells listed in the network will be collected annually, during the pumping season (in July), and analyzed for the constituents shown in List D. Nineteen wells and four alternates are currently listed as sampling options for July groundwater sampling in List B.

4. Seawater encroachment monitoring

a. Guadalupe Dunes (November)

Four water samples from four different water-bearing zones from each of the two well groups known as Guadalupe Dunes (noted by a triple asterisk) will be obtained once during the year at the end of the pumping season in November (List B). These 8 well samples will be analyzed for the chemical constituents shown in List D plus Bromide. Water-levels will be included.

b. Lompoc (August)

Four water samples noted by a double asterisk in List B will be obtained at the same time as prescribed in the Santa Ynez River Water Conservation District program letter. These samples will be analyzed for the constituents on List D, plus barium and iodide. Water-levels will be included.

A total of 32 water quality monitoring wells will be sampled and analyzed annually for the constituents noted on List D. The results of chemical analyses for these 32 wells will be provided to the SBCWA through NWIS Web as outlined through instructions provided to the SBCWA.

B. Surface Water Quality Monitoring Program:

- 1. Stream-quality stations -** Water samples will be collected on a monthly basis, as flow permits, at the stations listed below. Once per year (as flow permits, and usually during the month of April) samples will be collected for the constituents on List D. Field determinations of pH, alkalinity, dissolved oxygen, specific conductance, temperature, and discharge will also be made. All other monthly samples will be analyzed for pH, total dissolved solids, specific conductance, temperature, and discharge.

11123500	Santa Ynez River below Los Laureles Canyon near Santa Ynez
11124500	Santa Cruz Creek near Santa Ynez
11132500	Salsipuedes Creek near Lompoc
11133000	Santa Ynez River at Narrows near Lompoc
11135800	San Antonio Creek at Los Alamos
11136800	Cuyama River below Buckhorn Canyon near Santa Maria
11138500	Sisquoc River near Sisquoc
11141050	Orcutt Creek near Orcutt

B. Surface Water Quality Monitoring Program (continued):

2. Continuous temperature recording, specific conductance, and dissolved oxygen at Santa Ynez River near Santa Ynez (11126000).¹

Program Reporting

Annually, no later than January, the USGS will send a letter with a status report on the completed work from the previous water-year, inclusive of:

1. Summary of Groundwater site measurements
 - a. LIST A-1
 - i. Number of wells measured.
 - ii. Number of wells visited.
 - iii. Number of wells discontinued.
 - b. LIST A-2
 - i. Number of wells measured.
 - ii. Number of wells visited.
 - iii. Number of wells discontinued.
 - c. LIST A-3
 - i. Number of wells measured.
 - ii. Number of wells visited.
 - iii. Number of wells discontinued.
2. Summary of Ground Water Quality site samples.
LIST B.
 - i. Number of water quality samples collected.
 - ii. Number of water quality wells discontinued.
3. Summary of new wells added to the groundwater network.
4. Summary of surface water quality sites sampled.
 - a. 11123500
 - b. 11124500
 - c. 11132500
 - d. 11133000
 - e. 11135800
 - f. 11136800
 - g. 11138500
 - h. 11141050

¹ Cost of the continuous water quality monitoring at station 11126000 Santa Ynez River near Santa Ynez is split between four agencies as follows:
Santa Barbara County \$3,750 plus USGS \$1,050
Cachuma Operations Management Board \$14,350
Santa Ynez River Water Conservation District \$2,800 located on City of Lompoc Program
City of Lompoc \$3,800

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County Department of Public Works

Following is a summary of the work and associated costs for the SBCWA during the period November 1, 2017 to October 31, 2018:

	<u>County Funds</u>	<u>USGS Funds</u>	<u>Total Funds</u>
A. Groundwater Monitoring			
1a. Water-levels WY18	62,950	-0-	62,950
1b. Water-levels credit WY17	-4,077	-0-	-4,077
2. CASGEM Water-levels	1,650	-0-	1,650
3a. Water-quality WY18	24,450	9,550	34,000
3b. Water-quality credit one sample WY16	-1,200	-500	-1,700
4. Seawater encroachment			
- Guadalupe	10,200	4,750	14,950
- Lompoc	5,850	2,300	8,150
B. Surface Water Quality Monitoring			
1. Stream-quality stations	22,000	12,600	34,600
2. Continuous temperature, specific conductance, and dissolved oxygen	3,750	1,050	4,800
TOTAL	\$125,573	\$29,750	\$155,323


Total cost of the proposed program is \$155,323. Cost to SBCWA will be \$125,573 and subject to the availability of Federal matching funds, the USGS will provide \$29,750.

Enclosed are three originals of JFA 18WSCA03910, signed by our agency, for your approval. If you are in agreement with this proposed program, please return one fully executed JFA to our office. Work performed with funds from this agreement will be conducted on a fixed-price basis. Billing for this agreement will be rendered quarterly.

The USGS is required to have an agreement in place prior to any work being performed on a project. We request that a fully executed JFA be returned prior to November 1, 2017. If it is not received by November 1, we will be required to suspend operations until an agreement is received.

If you have any questions concerning this program, please contact Stuart Hill, in our Santa Maria Field Office, at (805) 928-9539. If you have any administrative questions, please contact Tammy Seubert, in our Sacramento Office, at (916) 278-3040.

Sincerely,



Eric G. Reichard
Director, USGS California Water Science Center

Enclosures

cc: Stuart Hill, USGS CAWSC

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County Department of Public Works

List A-1: Groundwater Wells Measured Annually (March)

Page 1 of 2

Updated 7/28/2017 by Scrudato; USGS Review 9/8/2017 by Hill & Hamilton

STATION NAME	STATION NUMBER	STATION NAME	STATION NUMBER
004N030W01G001S	342732119583101	007N033W17N002S	344051120224901
005N029W01C001S	343251119522201	007N033W19D001S	344035120235901
005N029W31C001S	342838119573501	007N033W20G001S	344025120221601
005N030W19E001S	343008120035801	007N033W21G002S	344025120211501
005N030W28R001S	342845120010701	007N033W21N001S	343956120214001
005N030W28R002S	342847120010801	007N033W27G001S	343926120201001
005N030W30N002S	342850120040002	007N033W28D003S	343946120215301
006N029W05A001S	343755119570901	007N033W36J001S	343824120175201
006N029W06F001S	343746119583101	007N034W14F004S	344126120255201
006N029W06G001S	343746119582201	007N034W14L001S	344117120255001
006N029W07L001S	343646119583001	007N034W15D003S	344142120272301
006N029W08P001S	343632119573301	007N034W15E001S	344134120272201
006N029W08P002S	343632119573302	007N034W15P002S	344101120265901
006N030W01R003S	343718119592001	007N034W20K004S	344017120285502
006N030W07G005S	343651120043401	007N034W22J006S	344033120263404
006N030W07G006S	343651120043402	007N034W24N001S	344010120251601
006N030W11G001S	343649120001801	007N034W26H003S	343943120252201
006N030W11G002S†	3436511200025xx	007N034W27G006S	343949120264901
006N030W11G003S†	3436501200025xx	007N034W29E004S	343948120292002
006N031W01P002S	343727120055801	007N034W29N006S	343926120293001
006N031W01P003S	343728120055101	007N034W29N007S	343926120293002
006N031W02K001S	343741120064801	007N034W30L010S	343941120300106
006N031W03A001S	343759120072901	007N034W31R002S	343828120293201
006N031W04A001S	343800120083001	007N034W32H002S	343901120284201
006N031W10F001S	343656120080601	007N034W35K009S	343840120254701
006N031W11D004S	343705120071001	007N035W15M001S	344124120334401
006N031W13D001S	343623120061201	007N035W17M001S	344114120353501
006N031W17F001S	343609120101201	007N035W17K020S	344112120351001
006N031W17F003S	343608120101001	007N035W18J002S	344118120355902
006N032W02Q001S	343719120124901	007N035W21G002S	344041120341101
006N032W11L004S	343644120131101	007N035W22M001S	344025120333401
006N032W16P003S	343544120151801	007N035W23B002S	344048120320201
006N032W18H001S	343613120164501	007N035W23E006S	344043120322406
006N033W08R001S	343640120220401	007N035W23J005S	344025120313701
006N033W08J003S	343645120220301	007N035W23Q002S	344009120320402
006N033W09M001S	343647120215001	007N035W23Q003S	344009120320403
006N034W06C004S	343815120300602	007N035W23Q004S	344008120320901
006N034W12C005S	343735120245902	007N035W24J004S	344021120303504
006N036W01K002S	343755120372601	007N035W24K005S	344029120310305
006N036W26C001S	343445120382601	007N035W24N003S	344046120321401
006N036W26G001S	343426120380901	007N035W25F006S	343947120310703
007N029W29R001S	343900119570201	007N035W25F007S	343947120310702
007N029W29R002S	343900119570301	007N035W26L001S	343929120321001
007N030W16B001S	344127120023301	007N035W26L002S	343929120321002
007N030W19H001S	344028120041801	007N035W26L004S	343929120321004
007N030W22E001S	344023120015101	007N035W27C001S	344001120331401
007N030W22E002S	344028120015701	007N035W27F001S	343952120332001
007N030W24Q001S	343956119592401	007N035W27H005S	343941120325701
007N030W27H001S	343935120010801	007N035W27J001S	343942120325701
007N030W29D001S	343946120035801	007N035W27P001S	343923120332501
007N030W30M001S	343921120051601	007N035W30G001S	343944120361901
007N030W32R001S	343812120031701	007N035W31J002S	343841120355202
007N030W33M001S	343833120030901	007N035W32N001S	343831120354301
007N030W35R001S	343809120000601	007N035W35A003S	343859120314003
007N030W36N002S	343809120000301	008N024W06J002S	344843119272401
007N030W36N003S	343814119595901	008N030W30R001S	344420120041701
007N031W22A003S	344044120072801	008N031W22J001S	344522120071901
007N031W23P001S	344002120070001	008N031W36H001S	344354120051501
007N031W36L002S	343831120055001	008N032W25D001S	344457120122101
007N032W07B001S	344215120170001	008N032W28P004S	344416120151301
007N032W31M001S	343821120173601	008N032W30D001S	344457120174001
007N033W16G005S	344115120212601	008N032W30E005S	344441120172801
007N033W17M001S	344100120224901	008N033W13C001S	344645120182401

Wells will be selected to replace discontinued monitoring sites as needed.

† Indicates newly added well for this year

Updated 7/28/2017 by Scrudato; USGS Review 9/8/2017 by Hill & Hamilton

STATION NAME	STATION NUMBER	STATION NAME	STATION NUMBER
008N033W20Q002S	344518120221002	010N033W07R006S	345710120230802
008N033W25B005S	344454120181401	010N033W16L001S	345632120214401
008N034W02M001S	344802120255901	010N033W18H001S	345644120230401
008N034W14L001S	344624120253901	010N033W19B001S	345616120231001
008N034W15F004S	344628120264203	010N033W19K001S	345538120231101
008N034W16C001S	344640120274401	010N033W20H001S	345552120220001
008N034W16C002S	344640120274402	010N033W21P001S	345534120212001
008N034W16C004S	344640120274404	010N033W26N001S	345431120194201
008N034W16F001S	344636120274201	010N033W27G001S	345458120200601
008N034W16G003S	344626120272901	010N033W28A001S	345523120204901
008N034W17E001S	344630120290101	010N033W28F002S	345459120211901
008N034W17H001S	344633120281901	010N033W29F001S	345459120222301
008N034W17K002S	344618120283201	010N033W34E001S	345405120204701
008N034W17Q001S	344611120283001	010N033W35B001S	345424120191501
008N034W21A001S	344550120273901	010N034W06N003S	345819120300901
008N034W24E001S	344530120245201	010N034W09D001S	345800120280801
009N024W19D001S	345100119290002	010N034W13H001S	345644120235801
009N024W32C001S	344944119275701	010N034W13J001S	345635120235901
009N024W32C004S	344939119275901	010N034W14E004S	345650120255901
009N024W33M001S	344910119270501	010N034W20H003S	345604120282202
009N025W03B002S	345351119323102	010N034W24K001S	345548120242202
009N025W03B003S	345351119323103	010N034W24K003S	345548120242201
009N025W03B004S	345351119323104	010N034W26H002S	345459120250301
009N025W28R001S	344940119330501	010N034W29N002S	345438120291901
009N026W01F003S	345325119365603	010N035W05P002S	345820120351401
009N026W02P002S	345302119380701	010N035W07E005S	345801120362801
009N032W06D001S	345323120173801	010N035W08H001S	345754120343601
009N032W16L001S	345116120150601	010N035W09F001S	345751120340001
009N032W17G001S	345129120160301	010N035W09N002S	345725120342503
009N032W22D001S	345053120141501	010N035W11E004S	345748120321901
009N032W23K001S	345035120123501	010N035W18F002S	345659120362002
009N032W33F001S	344858120150801	010N035W21B001S	345621120340101
009N032W33M001S	344835120152701	010N035W23M002S	345544120322501
009N032W33M002S	344836120153001	010N035W24B002S	345621120305301
009N033W02A007S	345325120184201	010N035W24Q001S	345538120304801
009N033W12C001S	345233120181001	010N035W35J002S	345406120313501
009N033W12R002S	345201120173901	011N028W33E002S	345947119530701
009N033WxxXxxxX†	x	011N034W30Q002S	345950120294801
009N033W22L001S	345023120202801	011N034W29R002S	345959120281901
009N033W24L001S	345024120181801	011N034W33J001S	345914120270801
009N034W03A002S	345340120261801	011N035W19E003S†	x
009N034W03F002S	345314120264101	011N035W26M003S†	3500101203218xx
009N034W08H001S	345225120283101	011N035W33G002S	345928120335501
009N034W09R001S	345205120271801		
009N034W34P001S	344836120265401		
010N025W19P003S	345552119354202		
010N025W19P004S	345552119354203		
010N025W32N003S	345359119350201		
010N026W07L002S	345753119421701		
010N026W17R002S	345600119400001		
010N026W20M001S	345603119411901		
010N026W20P001S	345540119410901		
010N026W22N002S	345540119391101		
010N026W34N001S	345359119392701		
010N026W34N003S	345359119392703		
010N026W34N004S	345359119392704		
010N027W03L002S	345838119452001		
010N027W06B001S	345905119481801		
010N027W22D001S	345626119454701		
010N032W19M002S	345541120174101		
010N033W07M001S	345725120235701		
010N033W07R001S	345710120230801		
		TOTAL= 231	
ADDITIONS TO REGULAR MONITORING PROGRAM			
Spanish River		Not canvassed	
Spanish Lower Mustang WM		Not canvassed	
North Fork Cattle, Green Valley		Unknown. Canvassed?	
Upper Wasioja		Not canvassed	
Stoller Ag		Not canvassed	
Stafford Solar		Canvassed	
Harvard WM3		Canvassed	
Sleepy Creek Solar		Canvassed	
Condor Hope		Canvassed	
CHG3		Canvassed	
CHG13		Canvassed	
CHG1		Canvassed	
		TOTAL= 12	

Wells will be selected to replace discontinued monitoring sites as needed.

†Indicates newly added well for this year

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County Department of Public Works

List A-2: Groundwater Wells Measured Biannually (Mar. and Oct.)

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Updated 4/20/2017 by Scrudato; USGS Reviewed 9/8/2017 by Hill & Hamilton

STATION NAME	STATION NUMBER	LOCALITY
006N029W05A001S	343755119570901	Phillips Ranch - North
006N032W02Q001S	343719120124901	SYR Alluvial; Buellton
006N034W06C004S	343815120300602	E of San Pasqual Rd
007N030W16B001S	344127120023301	Sedewick Ranch
007N031W22A003S	344044120072801	Foxen Cyn nr Los Olivos
007N033W16G005S	344115120212601	Mid Santa Rita Valley
007N033W17M001S	344100120224901	Upper Cebada Canyon
007N033W19D001S	344035120235901	Lower Cebada Canyon
007N033W20G001S	344025120221601	W of Tularosa Road
007N033W21G002S	344025120211501	Mid Santa Rita Valley
007N033W21N001S	343956120214001	W Santa Rita Valley
007N033W28D003S	343946120215301	W Santa Rita Valley
007N034W14F004S	344126120255201	Mission Hills CSD
007N034W14L001S	344117120255001	Mission Hills CSD
007N034W15D003S	344142120272301	Vandenberg Village CSD
007N034W15P002S	344101120265901	Uplands E of Hwy 1
007N034W20K004S	344017120285502	USPrison E of Floradale
007N034W24N001S	344010120251601	Purissima Mission nr 246
007N034W26H003S	343943120252201	Eastern Lompoc Valley
007N034W27G006S	343949120264901	E of North A Street
007N034W30L010S	343941120300106	SW cor Central & Leege
007N034W35K009S	343840120254701	Eastern Lompoc Valley
007N035W17M001S	344114120353501	Surf (near RR xing)
007N035W21G002S	344041120341101	W of 22MI in field
007N035W22M001S	344025120333401	W of VAFB entrance N
007N035W23B002S	344048120320201	N of SY River on VAFB
007N035W23E006S	344043120322406	W Valley: Jordan Farm
007N035W24J004S	344021120303504	At N end of Douglas Ave
007N035W24K005S	344029120310305	DeWolf Ave: Henning
007N035W25F006S	343947120310703	NW of DeWolf & Central
007N035W25F007S	343947120310702	NW of DeWolf & Central
007N035W27C001S	344001120331401	Ocean Ave & Renwick
007N035W27F001S	343952120332001	E. of So. VAFB entrance
007N035W27H005S	343941120325701	E. of So. VAFB entrance
007N035W27J001S	343942120325701	South VAFB nr NASA
008N032W28P004S	344416120151301	SE of Los Alamos
008N034W14L001S	344624120253901	NE Jct Hwy 1-SA road
009N024W19D001S	345100119290002	Zannon Hwy 33
010N026W20M001S	345603119411901	New Cuyama CSD Well
010N026W22N002S	345540119391101	Duncan Family Farms
010N034W06N003S	345819120300901	E of Bonita School Rd
010N034W29N002S	345438120291901	Taylor Residence
010N035W05P002S	345820120351401	W. end of Thornberry
010N035W07E005S	345801120362801	North of 18F2 - Gamble
010N035W08H001S	345754120343601	City Guadalupe
010N035W09F001S	345751120340001	Guadalupe: Waller Seed
010N035W09N002S	345725120342503	SW Main St - Hwy 166
010N035W11E004S	345748120321901	Silva Farm N of Hwy 166
010N035W18F002S	345659120362002	SW from Guadalupe
010N035W21B001S	345621120340101	Mahoney Bros Farm
010N035W23M002S	345544120322501	S of Brown Road
010N035W24B002S	345621120305301	NW Jct Ray & Brown rd
010N035W24Q001S	345538120304801	Ex B&W feedlot well
010N035W35J002S	345406120313501	Field E of Hwy 1
011N035W19E003S†	x	Mike Mills
011N035W26M003S†	3500101203218xx	O Flaco Rd E of Hwy 1
011N035W33G002S	345928120335501	Division St E. of RR Xing

Total Number of Wells= 57

Wells will be selected to replace discontinued monitoring sites as needed.

†Indicates newly added well for this year

updated 10/6/2016 by Scrudato; USGS Reviewed 9/8/2017 by Hill & Hamilton

STATION NAME	STATION NUMBER	LOCALITY
006N031W07F001S	343655120111201	Buellton Upland
007N034W12E001S	344219120250601	N or Mission Hills
007N035W22J001S	344021120324101	W Valley: Jordan Farm
007N035W26F004S	343948120320901	W Valley: Jordan Farm
008N033W13Q001S	344609120180701	Berringer S of office
008N033W22K003S	344521120200801	Mid San Antonio Basin
009N025W03B001S	345351119323101	CVFR #1
010N025W19P002S	345552119354201	CVKR #1
010N026W34N002S	345359119392702	CVBR #2

Total Number of wells= 9 Total Number of Water Levels= 18

Updated 7/28/2017 by Scudato; USGS Reviewed 9/8/2017 by Hill & Hamilton

July Groundwater		
SANTA YNEZ	007N030W33M001S	343833120030901
	007N031W35K004S	343830120065001
SAN ANTONIO	008N032W30E006S	344442120173201
	008N033W22K004S	344522120201301
SANTA RITA	007N033W27G001S	343926120201001
SANTA MARIA	009N033W02A007S	345325120184201
	009N034W03A002S	345340120261801
CUYAMA VALLEY	010N033W20H001S	345552120220001
	010N033W20G001S (alternate for 20H1)	345552120221701
	010N033W22N003S	345535120204401
	010N033W19K001S (alternate well)	345538120231101
	010N034W04R002S	345808120271401
	010N034W14E004S	345650120255901
	010N034W14E005S (alternate for 14E4)	345649120255201
	010N034W29N001S	345441120291301
	010N035W14D003S	345712120321701
	010N026W07L002S	345753119421701
	010N026W20M001S	345603119411901
	010N026W22D002S	345618119391001
010N026W17R002S (alternate for 20M1 or 22D2)	345600119400001	
Harvard NF5		
Spanish Ranch Mustang		
Harvard CHG4		
New Well Pending Identification		
TOTAL – 20 Samples		

August Groundwater (Lompoc)		
	007N034W27P005S**	343914120270301
	007N035W21G002S**	344041120341101
	007N035W26F004S**	343948120320901
	007N035W27F001S**	343952120332001
	TOTAL – 4 Samples	

November Groundwater (Guadalupe Dunes)		
	010N036W02Q001S***	345823120383901
	010N036W02Q003S***	345823120383903
	010N036W02Q004S***	345823120383904
	010N036W02Q007S***	345823120383907
	011N036W35J002S***	345921120381601
	011N036W35J003S***	345921120381602
	011N036W35J004S***	345921120381603
	011N036W35J005S***	345921120381604
	TOTAL – 8 Samples	

GRAND TOTAL=32 Samples

Discontinued Wells from List A-1			TOTAL= 45
STATION NAME	STATION NUMBER	REASON	
004N028W02P003S	342709119471401	Redundant (Goleta Program)	
004N028W16J005S	342539119483504	Redundant (Goleta Program)	
006N031W07F001S	343655120111201	Also located on List A-3	
007N030W25Q002S	343907119593001†	Found obstructed in 2017	
007N031W34M001S	343824120081801	Casing collapsed	
007N031W35K004S	343830120065001†	Found obstructed in 2017	
007N034W12E001S	344219120250601	Also located on List A-3	
007N034W15D002S	344140120272302	Destroyed by VVCS D	
007N035W18H001S	344135120355201	Safety issue. Dropped.	
007N035W22J001S	344021120324101	Also located on List A-3	
007N035W26F004S	343948120320901	Also located on List A-3	
008N031W22J002S	344500120070001	Foxen Canyon: Zaca Mesa. Obstructed at 120	
008N032W29L002S	344437120161401	Destroyed (3/17)	
008N032W28P001S	344417120151001	Obstructed at about 11 feet.	
008N033W13Q001S	344609120180701	Moved to List A-3	
008N033W19K001S	344530120231601	Casing collapsed/obstructed	
008N033W22K003S	344521120200801	Moved to List A-3	
008N033W24B003S	344555120180701	Hangups and obstructions	
008N034W15F002S	344628120264201	Bee Hive obstruction	
008N034W16C003S	344640120274403	Casing collapsed/obstructed	
008N034W23B001S	344546120252901	Casing collapsed/obstructed	
009N024W30K001S	345003119283501	Access revoked by owner	
009N025W02B001S	345300119310001	Obstructed since 2012	
009N025W03B001S	345351119323101	Also located on List A-3	
009N033W06G001S	345326120231401	Frietas Brothers. No measurement allowed.	
009N033W15D003S	345154120203901	Teixeira Well. Destroyed pump.	
009N033W17B001S	345154120221201	Hangups. Difficult to measure.	
009N033W22K001S	345034120200901	Obstructions. Difficult to measure.	
009N034W06C001S	345330120300801	Laguna San. Well destroyed (3/17)	
010N025W19P002S	345552119354201	Also located on List A-3	
010N026W20P001S	345540119410901	New Cuyama CSD #2 (3/17)	
010N026W34N002S	345359119392702	Also located on List A-3	
010N033W30G001S	345459120232301	Teixeira Well. No measurement allowed.	
010N033W31Q002S	345341120232201†	Found obstructed in 2017	
010N034W13G001S	345644120241801	Destroyed	
010N034W14E005S	345649120255201	Obstructed for many years	
010N035W09E005S	345750120343001	Destroyed	
010N035W14P001S	345624120320901	Obstructed Spring 2017	
010N035W24B001S	345620120305201	Casing filled/Obstructed	
010N036W12P001S	345724120374101	Casing broke and filled with debris	
011N035W20E001S	350107120353201	Teixeira Well. No measurement allowed.	
011N035W25F003S	350014120310501	Teixeira Well. No measurement allowed.	
011N035W28F001S	350014120341401	Teixeira Well. No measurement allowed.	
011N035W28M001S	350012120342601	Teixeira Well. No measurement allowed.	
011N035W29E002S	3500221203527xx	Teixeira Well. No measurement allowed.	

†Indicates newly added well for this year

LIST C: DISCONTINUED WELLS FY15 - FY17

Discontinued Wells from List A-2			TOTAL= 18
STATION NAME	STATION NUMBER	REASON	
007N031W35K004S	343830120065001†	Found obstructed in 2017	
007N034W12E001S	344219120250601	Also located on List A-3	
007N034W15D001S	344140120272301	Destroyed by VVCSD	
007N034W15D002S	344140120272302	Destroyed by VVCSD	
007N035W22J001S	344021120324101	Also located on List A-3	
007N035W26F004S	343948120320901	Also located on List A-3	
008N033W13Q001S	344609120180701	Moved to List A-3	
008N033W22K003S	344521120200801	Moved to List A-3	
009N034W06C001S	345330120300801	Laguna Sanitation Yard (3/17)	
010N035W09E005S	345750120343001	Destroyed	
010N035W14P001S	345624120320901	Obstructed Spring 2017	
010N035W24B001S	345620120305201	Casing filled/Obstructed	
010N036W12P001S	345724120374101	Casing broke and filled with debris	
011N035W20E001S	350107120353201	Teixeira Well. No measurement allowed.	
011N035W25F003S	350014120310501	Teixeira Well. No measurement allowed.	
011N035W28F001S	350014120341401	Teixeira Well. No measurement allowed.	
011N035W28M001S	350012120342601	Teixeira Well. No measurement allowed.	
011N035W29E002S	3500221203527xx†	Teixeira Well. No measurement allowed.	
Discontinued Wells from List A-3			TOTAL= 0
STATION NAME	STATION NUMBER	REASON	
None	None	N/A	
Discontinued Wells from List B			TOTAL= 3
STATION NAME	STATION NUMBER	REASON	
010N033W30G001S	345459120232301	Teixeira Well. No sampling allowed.	
009N033W10M001S	345210120205001	Frietas Bros. No sampling allowed.	
009N033W10E001S	345231120205501	Frietas Bros. No sampling allowed.	

†Indicates newly added well for this year

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County Department of Public Works

List D

Chemical Constituents
(mg/L or as indicated)

Dissolved boron ($\mu\text{g/L}$)	Dissolved solids (sum)
Dissolved calcium	Sodium adsorption ratio
Dissolved chloride	Percent sodium
Dissolved fluoride	Total alkalinity (CaCO_3)
Dissolved iron ($\mu\text{g/L}$)	Total hardness (CaCO_3)
Dissolved manganese ($\mu\text{g/L}$)	Temperature $^{\circ}\text{C}$
Dissolved magnesium	pH
Dissolved nitrogen (nitrate + nitrite)	Specific conductance (microsiemens)
Dissolved orthophosphate (PO_4)	
Dissolved orthophosphorus (P)	
Dissolved potassium	
Dissolved silica	
Dissolved sodium	
Dissolved sulfate	

Schedules used: 101, 117

Lab Codes used: 27

Additional analysis for monitoring wells noted by a double asterisk (**) in List B includes: Lab Codes as 1202, Iodide and 1786 as Barium

Triple asterisk (***) for lab code 1246 as Bromide.