# Contract Summary Form: Contract Number: BC-11-045

Complete data below, print, obtain signature of authorized departmental representative, and submit this form (and attachments) to the Clerk of the Board (>$100,000). If less than $100,000, submit a purchasing requisition to the Purchasing Division of General Services. See "Online Purchasing Manual" under "General Services", "Purchasing", "Policies and Procedures. *"See also "Contracts for Services" policy. Form not applicable to revenue contracts.*

D1. Fiscal Year: FY 10-11
D2. Budget Unit Number *(plus -Ship/-Bill codes in paren's)* ..: 054
D3. Requisition Number:
D4. Department Name: Water Agency
D5. Contact Person: Matt Naftaly
D6. Phone: ext. 3542

K1. Contract Type *(check one)*: ☐ Personal Service ☐ Capital Project/Construction
K2. Brief Summary of Contract Description/Purpose: Cooperative Streamgaging Program
K3. Original Contract Amount: $299,130
K4. Contract Begin Date: November 1, 2010
K5. Original Contract End Date: October 31, 2011
K6. Amendment History *(leave blank if no prior amendments)*:

| Seq# | EffectiveDate | ThisAmndtAmt | CumAmndtToDate | NewTotalAmt | NewEndDate | Purpose (2-4 words) |
|---|---|---|---|---|---|---|
| | | $ | $ | $ | | |

K7. Department Project Number:

B1. Is this a Board Contract? *(Yes/No)*: yes
B2. Number of Workers Displaced *(if any)*: N/A
B3. Number of Competitive Bids *(if any)*: N/A
B4. Lowest Bid Amount *(if bid)*: $
B5. If Board waived bids, show Agenda Date:
B6. ... and Agenda Item Number: #
B7. Boilerplate Contract Text Unaffected? *(Yes / or cite ¶¶ ).*:

F1. Encumbrance Transaction Code: 1701
F2. Current Year Encumbrance Amount: $
F3. Fund Number: 3050
F4. Department Number: 054
F5. Division Number *(if applicable)*: 04
F6. Account Number: 7460
F7. Cost Center number *(if applicable)*:
F8. Payment Terms: Net 30

V1. Vendor Numbers *(A=uditor; P=urchasing)*: 833515
V2. Payee/Contractor Name: U.S. Geological Survey
V3. Mailing Address: 271 National Center
V4. City State *(two-letter)* Zip *(include +4 if known)*: Reston, VA 20192
V5. Telephone Number: (916) 278-3001
V6. Contractor's Federal Tax ID Number *(EIN or SSN)*: 53-019658
V7. Contact Person: Janee Hiett
V8. Workers Comp Insurance Expiration Date:
V9. Liability Insurance Expiration Date[s] *(G=enl; P=rofl)*...:
V10. Professional License Number: #
V11. Verified by *(name of County staff)*:
V12. Company Type *(Check one)*: ☐Individual ☐ Sole Proprietorship ☐Partnership ☐Corporation

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

Date : Authorized Signature

Form 9-1366
(Oct. 2005)

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

Page 1 of 2

| | |
|---|---|
| Customer #: | CA039 |
| Agreement #: | 11W4CAD03900 |
| Project #: | |
| TIN #: | 95-6002833 |
| Fixed Cost Agreement | ☑ Yes ☐ No |

## FOR
## WATER RESOURCES INVESTIGATIONS

THIS AGREEMENT is entered into as of the 5th day of May, 2010, by the U.S. GEOLOGICAL SURVEY, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the SANTA BARBARA COUNTY PUBLIC WORKS WATER RESOURCES DIVISION, 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 cooperative water resources investigations in the Santa Barbara County area, 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.

(a) $151,810.00 by the party of the first part during the period November 1, 2010 **to** October 31, 2011

(b) $299,130.00 by the party of the second part during the period November 1, 2010 **to** October 31, 2011

USGS DUNS IS 1761-38857

(c) 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.

(d) 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.

Page 2 of 2

| Form 9-1366 continued | U.S. Department of the Interior<br>U.S. Geological Survey<br>Joint Funding Agreement | Customer #:<br>Agreement #:<br>Project #:<br>TIN #: | CA039<br>11W4CAD03900<br><br>95-6002833 |
|---|---|---|---|

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 costs, 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).

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

**USGS Point of Contact**

Name: Janee D. Hiett
Address: 6000 J Street
Sacramento, CA 95819-6129
Telephone: (916) 278-3001
Email: jdhiett@usgs.gov

**Signatures**

By_____ Date_____
Name: Eric G. Reichard
Title: Director, USGS California Water Science Center

By_____ Date_____
Name:
Title:

By_____ Date_____
Name:
Title:

**SANTA BARBARA COUNTY PUBLIC WORKS**
**WATER RESOURCES DIVISION**

**Customer Point of Contact**

Name: Jonathan S. Frye, Interim Deputy Director
Address: 123 East Anapamu Street
Santa Barbara, California 93101
Telephone:
Email:

**Signatures**

By SEE ATTACHED PAGE Date_____
Name:
Title:

By_____ Date_____
Name:
Title:

By_____ Date_____
Name:
Title:

Customer No. CA039
Agreement No. 11W4CAD03900
TIN #: 95-6002833

**Signature Page Continued - Page 3**

SANTA BARBARA COUNTY WATER AGENCY

By:_____
Chair, Board of Directors

Date:_____

ATTEST:
MICHAEL F. BROWN
CLERK OF THE BOARD

BY:_____
Deputy

APPROVED AS TO FORM:
DENNIS MARSHALL
COUNTY COUNSEL

BY:_____
Deputy

APPROVE AS TO ACCOUNTING:
ROBERT W. GEIS, CPA

BY:_____
Deputy

EXHIBIT 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
http://water.wr.usgs.gov

September 13, 2010

Mr. Jonathan S. Frye, Interim Deputy Director
Santa Barbara County Water Agency
123 East Anapamu Street
Santa Barbara, California 93101

Dear Mr. Frye:

This letter confirms discussions between Santa Barbara County Water Agency (County) and U.S. Geological Survey (USGS), concerning the continuation of the water resources program for the period November 1, 2010 to October 31, 2011.

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

**I. Santa Barbara County Water Agency**

**A. *Surface Water Streamgaging Stations:***

**Operation and Maintenance**

| Station number and name | | SBCWA Funds | USGS Funds | Total Funds |
|---|---|---|---|---|
| 11119500 | Carpinteria Creek near Carpinteria | $ 13,450 | $ 8,950 | $ 22,400 |
| 11119750 | Mission Creek near Mission Street at Santa Barbara | 13,450 | 8,950 | 22,400 |
| 11119940 | Maria Ygnacio Creek at University Drive near Goleta | 13,450 | 8,950 | 22,400 |
| 11120000 | Atascadero Creek near Goleta | 13,450 | 8,950 | 22,400 |
| 11120500 | San Jose Creek near Goleta | 13,450 | 8,950 | 22,400 |
| 11123500 | Santa Ynez River below Los Laureles Canyon near Santa Barbara | 13,450 | 8,950 | 22,400 |
| 11124500 | Santa Cruz Creek near Santa Ynez | 13,450 | 8,950 | 22,400 |
| 11128250 | Alamo Pintado Creek near Solvang | 13,450 | 8,950 | 22,400 |

. ***Surface Water Streamgaging Stations (continued):***

**Operation and Maintenance**

| Station number and name | SBCWA Funds | USGS Funds | Total Funds |
|---|---|---|---|
| 11128300 Alisal Reservoir near Solvang | 7,850 | -0- | 7,850 |
| 11129800 Zaca Creek near Buellton | 13,450 | 8,950 | 22,400 |
| 11132500 Salsipuedes Creek near Lompoc | 13,450 | 8,950 | 22,400 |
| 11135800 San Antonio Creek at Los Alamos | 13,450 | 8,950 | 22,400 |
| 11136800 Cuyama River below Buckhorn Canyon | 13,450 | 8,950 | 22,400 |
| 11138500 Sisquoc River near Sisquoc | 22,400 | -0- | 22,400 |
| 11141050 Orcutt Creek near Orcutt | 13,450 | 8,950 | 22,400 |
| **SW Streamgaging Stations Subtotal** | **$ 205,100** | **$ 116,350** | **$ 321,450** |

**B.** ***Groundwater Monitoring Program:***

**1. Water-level monitoring**

The USGS will conduct monitoring of approximately 280 wells in the spring and 60 wells in the fall as part of the County 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. 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. Santa Barbara County Staff will assist the USGS staff on an annual basis to complete this task. This task was identified in the summer of 2002, and has been worked on intensively in recent years.

**2. Water-quality monitoring**

In 1981, a groundwater quality network was reestablished in selected basins of Santa Barbara County (List B). Water samples from 17 wells in the network will be collected annually, during the pumping season (in July), and analyzed for the constituents shown in List C.

**B.** ***Groundwater Monitoring Program (continued):***

**3. Seawater encroachment monitoring**

Four water samples from four different water-bearing zones from each of the two well groups known as Guadalupe #1 and Guadalupe #2 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 C. Water-levels will be included.

Water samples noted by single asterisks 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 C, plus barium and iodide. The results of chemical analyses will be provided to the County as they become available.

A total of 28 water quality monitoring wells will be sampled and analyzed annually for the constituents noted on List C.

**C.** ***Surface Water Quality Monitoring Program:***

1. Stream-quality stations - Water samples will be collected on a monthly basis, as flow permits, at the following stations. Once per year (as flow permits, and usually during the month of April) samples will be collected for the constituents on List C. 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 |

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

*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 $3,300
Cachuma Operations Management Board $12,550
Santa Ynez River Water Conservation District $2,450 located on City of Lompoc Program
City of Lompoc $3,300

**Mr. Jonathan S. Frye, Interim Deputy Director- Santa Barbara County Water Agency**

Following is a summary of the work and associated costs for the Santa Barbara County Water Agency during the period November 1, 2009 to October 31, 2010:

| | SBCWA Funds | USGS Funds | Total Funds |
|---|---|---|---|
| **A.** ***Surface Water Streamgaging Stations*** | | | |
| Operation and Maintenance | $ 205,100 | $ 116,350 | $ 321,450 |
| **B.** ***Groundwater Monitoring*** | | | |
| 1. Water-levels | 38,450 | 1,200 | 39,650 |
| 2. Water-quality | 18,600 | 11,200 | 29,800 |
| 3. Seawater encroachment | | | |
| - Guadalupe | 9,050 | 5,550 | 14,600 |
| - Surf | 5,150 | 2,700 | 7,850 |
| **C.** ***Surface Water Quality Monitoring*** | | | |
| 1. Stream-quality stations[1] | 19,480 | 12,960 | 32,440 |
| 2. Continuous temperature, specific conductance, and dissolved oxygen[2] | 3,300 | 1,850 | 5,150 |
| **Total** | **$ 299,130** | **$ 151,810** | **$ 450,940** |

Total cost of the proposed program is $ 450,940.00. Cost to County will be $ 299,130.00 and subject to the availability of Federal matching funds, the USGS will provide $ 151,810.00.

Enclosed, are four originals of Joint Funding Agreement (JFA) 11W4CAD03900 for your approval. Work performed with funds from this agreement will be conducted on a fixed-price basis. If you are in agreement with this proposed program, please return three signed JFA's to our office. The fourth JFA is for your records, pending USGS approval. Upon approval, a fully executed JFA will be forwarded for your records.

[1] Stream-quality stations average cost for SBCWA is $2,435. The USGS average cost for these stations is $1,620.
[2] SBCWA to be reimbursed $3,300 by the City of Lompoc.

**Mr. Jonathan S. Frye, Interim Deputy Director- Santa Barbara County Water Agency**

The USGS is required to have an agreement in place prior to any work being performed on a project. We request that the JFA be returned prior to November 1, 2010. If a JFA 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 Matthew Scrudato, in our Santa Maria Field office, at (805) 928-9539. If you have any administrative questions, please contact Janee Hiett, in our Sacramento Office, at (916) 278-3001.

Sincerely,

Angela A. Smith

Eric G. Reichard
Acting Director, USGS California Water Science Center

Enclosures

cc: Matthew Scrudato, USGS CAWSC

**Mr. Jonathan S. Frye, Interim Deputy Director- Santa Barbara County Water Agency**
List A-1

Groundwater Wells Measured Annually
Santa Barbara County Water Agency
USGS (updated 07/01/10 by M.C. Scrudato)

4N/28W–2P3
4N/28W-16J5
4N/30W-1G1
5N/29W-1C1
5N/29W-31C1
5N/30W-19E1
5N/30W-28R1
5N/30W-28R2
5N/30W-30N2
6N/29W-5A1
6N/29W-6F1
6N/29W-6G1
6N/29W-7L1
6N/29W-8P1
6N/29W-8P2
6N/30W-1R3
6N/30W-7G5
6N/30W-7G6
6N/30W-9N1
6N/30W-11G2
6N/31W-1P2
6N/31W-1P3
6N/31W-2K1
6N/31W-3A1
6N/31W-4A1
6N/31W-7F1
6N/31W-10F1
6N/31W-11D4
6N/31W-13D1
6N/31W-17F1
6N/31W-17F3
6N/32W-2Q1
6N/32W-6K1
6N/32W-16P3
6N/32W-18H1
6N/33W-8R1
6N/33W-8J3
6N/33W-9M1
6N/33W-11L4
6N/34W-6C4
6N/34W-12C5
6N/36W-1K1
6N/36W-26C1
6N/36W-26G1
7N/29W-29R1
7N/29W-29R2
7N/30W-16B1
7N/30W-19H1
7N/30W-22E1
7N/30W-22E2
7N/30W-24Q1
7N/30W-25Q2
7N/30W-27H1
7N/30W-29D1
7N/30W-29N2
7N/30W-30M1
7N/30W-32R1
7N/30W-33M1
7N/30W-35R1
7N/30W-36N2
7N/30W-36N3
7N/31W-22A3
7N/31W-23P1
7N/31W-34M1
7N/31W-35K4
7N/31W-36L2
7N/32W-7B1
7N/32W-31M1
7N/33W-16G5
7N/33W-17M1
7N/33W-17N2
7N/33W-19D1
7N/33W-20G1
7N/33W-21G2
7N/33W-21N1
7N/33W-27G1
7N/33W-27J1
7N/33W-28D3
7N/33W-30B2

**Mr. Jonathan S. Frye, Interim Deputy Director- Santa Barbara County Water Agency**

List A-1 – Continued

Groundwater Wells Measured Annually
Santa Barbara County Water Agency
USGS (updated 07/01/10 by M.C. Scrudato)

7N/33W-36J1
7N/34W-9H5
7N/34W-9H6
7N/34W-12E1
7N/34W-14F4
7N/34W-14L1
7N/34W-15D1
7N/34W-15D2
7N/34W-15E1
7N/34W-15P2
7N/34W-20K4
7N/34W-22J6
7N/34W-24N1
7N/34W-26H3
7N/34W-27G6
7N/34W-29E4
7N/34W-29N6
7N/34W-29N7
7N/34W-30L10
7N/34W-31R2
7N/34W-32H2
7N/34W-35K9
7N/35W-15M1
7N/35W-17M1
7N/35W-17Q6
7N/35W-18H1
7N/35W-18J2
7N/35W-21G2
7N/35W-22J1
7N/35W-22M1
7N/35W-23B2
7N/35W-23E2
7N/35W-23J5
7N/35W-23Q2
7N/35W-23Q3
7N/35W-23Q4
7N/35W-24J4
7N/35W-24K5
7N/35W-24N3
7N/35W-25F6
7N/35W-25F7
7N/35W-26F4
7N/35W-26L1
7N/35W-26L2
7N/35W-26L4
7N/35W-27C1
7N/35W-27F1
7N/35W-27H1
7N/35W-27P1
7N/35W-30G1
7N/35W-31J2
7N/35W-32N1
7N/35W-35A3
8N/30W-30R1
8N/31W-22J1
8N/31W-22J2
8N/31W-25K1
8N/31W-25Q1
8N/31W-36H1
8N/32W-25D1
8N/32W-28P1
8N/32W-28P4
8N/32W-29L2
8N/32W-30D1
8N/32W-30E5

3 neverland not added to letter – courtesy measurement if granted access: 31D1, 30N1, and 25Q2

**Mr. Jonathan S. Frye, Interim Deputy Director- Santa Barbara County Water Agency**

List A-1 – Continued

Groundwater Wells Measured Annually
Santa Barbara County Water Agency
USGS (updated 07/01/10 by M.C. Scrudato)

8N/33W-13C1
8N/33W-13Q1
8N/33W-19K1
8N/33W-20Q2
8N/33W-22K3
8N/33W-24B3
8N/33W-24C1
8N/33W-25B5
8N/34W-2M1
8N/34W-9K1
8N/34W-14L1
8N/34W-15F2
8N/34W-15F4
8N/34W-16C1
8N/34W-16C2
8N/34W-16C3
8N/34W-16C4
8N/34W-16F1
8N/34W-16G3
8N/34W-17E1
8N/34W-17H1
8N/34W-17K2
8N/34W-17Q1
8N/34W-21A1
8N/34W-23B1
8N/34W-24E1
8N/35W-12M1
9N/24W-32C1
9N/24W-33M1
9N/25W-13B1
9N/26W-1F3
9N/32W-6D1
9N/32W-16L1
9N/32W-17G1
9N/32W-22D1
9N/32W-23K1
9N/32W-33F1
9N/32W-33M1
9N/32W-33M2
9N/33W-2A7
9N/33W-6G1
9N/33W-12C1
9N/33W-12R2
9N/33W-24L1
9N/34W-3A2
9N/34W-3F10
9N/34W-6C1
9N/34W-8H1
9N/34W-9R1
9N/34W-34P1
10N/26W-18F1
10N/26W-20M1
10N/26W-20P1
10N/27W-11A1
10N/32W-19M2

**Mr. Jonathan S. Frye, Interim Deputy Director- Santa Barbara County Water Agency**

List A-1 - Continued

Groundwater Wells Measured Annually
Santa Barbara County Water Agency
USGS (updated 07/01/10 by M.C. Scrudato)

10N/33W-7M1
10N/33W-7R1
10N/33W-7R6
10N/33W-18G1
10N/33W-19B1
10N/33W-19K1
10N/33W-20H1
10N/33W-21P1
10N/33W-26N1
10N/33W-27G1
10N/33W-28A1
10N/33W-28F2
10N/33W-29F1
10N/33W-30G1
10N/33W-30M2
10N/33W-31Q2
10N/33W-34E1
10N/33W-35B1
10N/34W-6N1
10N/34W-9D1
10N/34W-13C1
10N/34W-13G1
10N/34W-13H1
10N/34W-13J1
10N/34W-14E4
10N/34W-14E5
10N/34W-20H3
10N/34W-24K1
10N/34W-24K3
10N/34W-26H2
10N/34W-29N2
10N/35W-5P2
10N/35W-7E5
10N/35W-9E5
10N/35W-9F1
10N/35W-9N2
10N/35W-11E4
10N/35W-14P1
10N/35W-18F2
10N/35W-21B1
10N/35W-23M2
10N/35W-24B1
10N/35W-24Q1
10N/35W-35J2
10N/36W-12P1
11N/34W-30Q2
11N/34W-29R2
11N/34W-33J1
11N/35W-20E1
11N/35W-25F3
11N/35W-26M3
11N/35W-28F2
11N/35W-29E2
11N/35W-28M1
11N/35W-33G1

List A-1 - Continued

Groundwater Wells Measured Annually
Santa Barbara County Water Agency
USGS (updated 07/01/10 by M.C. Scrudato)

## DISCONTINUED WELLS

6N/29W-9J1 (FY07)
7N/33W-16G3 (FY07)
7N/33W-36J2 (FY07)
7N/34W-15P1 (FY05)
7N/35W-13N2 (FY07)
7N/35W-25F5 (FY07)
8N/33W-20R1 (FY05)
9N/25W-27C1 (FY08)
9N/32W-7A1 (FY07)
9N/32W-8N1 (FY07)
9N/33W-5A1 (FY07)
10N/25W-18J2 (FY08)
10N/25W-21E1 (FY05)
10N/25W-21G1 (FY07)
10N/25W-23E1 (FY07)
10N/25W-21F1 (FY08)
10N/25W-21G1 (FY07)
10N/25W-23E1 (FY07)
10N/25W-27L2 (FY07)
10N/25W-29K2 (FY07)
10N/25W-30F1 (FY08)
10N/26W-4R1 (FY08)
10N/26W-9H1 (FY08)
10N/26W-15N1 (FY07)
10N/26W-16Q1 (FY08)
10N/26W-21A1 (FY08)
10N/26W-22Q1 (FY08)
10N/32W-19M1 (FY05)
10N/33W-16N1 (FY07)
10N/33W-16N2 (FY07)
10N/33W-28F1 (FY08)
11N/34W-30Q1 (FY07)

**Mr. Jonathan S. Frye, Interim Deputy Director- Santa Barbara County Water Agency**

List A-2

Groundwater Wells Measured Annually (September)
Santa Barbara County Water Agency
USGS (updated 07/01/10 by M.C. Scrudato)

| | |
|---|---|
| 6N/34W-6C4 | E of San Pasqual Rd |
| 7N/33W-16G5 | Mid Santa Rita Valley |
| 7N/33W-17M1 | Upper Cebada Canyon |
| 7N/33W-19D1 | Lower Cebada Canyon |
| 7N/33W-20G1 | W of Tularosa Road |
| 7N/33W-21G2 | Mid Santa Rita Valley |
| 7N/33W-21N1 | W Santa Rita Valley |
| 7N/33W-28D3 | W Santa Rita Valley |
| 7N/34W-9H5 | Vandnbrg Village CSD |
| 7N/34W-9H6 | Vandnbrg Village CSD |
| 7N/34W-12E1 | N of Mission Hills |
| 7N/34W-14F4 | Mission Hills CSD |
| 7N/34W-14L1 | Mission Hills CSD |
| 7N/34W-15D1 | Vandnbrg Village CSD |
| 7N/34W-15D2 | Vandnbrg Village CSD |
| 7N/34W-15P2 | Uplands E of Hyw 1 |
| 7N/34W-20K4 | USPrison E of Floradale |
| 7N/34W-24N1 | Purisima Mission nr 246 |
| 7N/34W-26H3 | Eastern Lompoc Valley |
| 7N/34W-27G6 | E of North A Street |
| 7N/34W-30L10 | SW cor Central & Leege |
| 7N/34W-35K9 | Eastern Lompoc Valley |
| 7N/35W-22M1 | W of VAFB entrance N |
| 7N/35W-17M1 | Surf (near RR xing) |
| 7N/35W-17Q6 | Surf (old barrier bridge) |
| 7N/35W-21G2 | W of 22M1 in field |
| 7N/35W-22J1 | W Valley: Jordan Farm |
| 7N/35W-23B2 | N of SY River on VAFB |
| 7N/35W-23E2 | W Valley: Jordan Farm |
| 7N/35W-24J4 | At N end of Douglas Ave |
| 7N/35W-24K5 | DeWolf Ave: Henning |
| 7N/35W-25F6 | NW of DeWolf & Central |
| 7N/35W-25F7 | NW of DeWolf & Central |
| 7N/35W-26F4 | W Valley: Jordan Farm |
| 7N/35W-27C1 | Ocean Ave & Renwick |
| 7N/35W-27F1 | E. of So. VAFB entrance |
| 7N/35W-27H1 | E. of So. VAFB entrance |
| 9N/34W-6C1 | Laguna Sanitation Yard |
| 10N/34W-6N1 | E of Bonita School Rd |
| 10N/34W-29N2 | Taylor Residence |
| 10N/35W-5P2 | W. end of Thornberry |
| 10N/35W-7E5 | North of 18F2 - Gamble |
| 10N/35W-9E5 | Guadalupe City Well |
| 10N/35W-9F1 | Guadalupe: Waller Seed |
| 10N/35W-9N2 | SW Main St - Hyw166 |
| 10N/35W-11E4 | Silva Farm N of Hyw 166 |
| 10N/35W-14P1 | N of Brown Road |
| 10N/35W-18F2 | SW from Guadalupe |
| 11N/35W-20E1 | Oso Flaco Lake Road |
| 10N/35W-21B1 | Mahoney Bros Farm |
| 10N/35W-23M2 | S of Brown Road |
| 10N/35W-24B1 | SW Jct Ray & Brown rd |
| 10N/35W-24Q1 | Ex B&W feedlot well |
| 11N/35W-25F3 | Division @ Bonita Road |
| 11N/35W-26M3 | O Flaco Rd E of hwy 1 |
| 11N/35W-28F2 | Hwy 1 S of O Flaco Rd |
| 11N/35W-28M1 | E of Guadalupe dunes |
| 11N/35W-29E2 | Oso Flaco next to RVR |
| 11N/35W-33G1 | Division St @ RR Xing |
| 10N/35W-35J2 | Field E of Hyw 1 |
| 10N/36W-12P1 | E of Guadalupe dunes |

**DISCONTINUED**

7N/33W-16G3 (FY07)
7N/33W-16G4 (FY07)
7N/35W-13N2 (FY07)
7N/35W-25F5 (FY07)

List B

Groundwater Quality Sampling
Santa Barbara County Water Agency
(updated 07/01/10 by M.C. Scrudato)

**July Groundwater**

7N/30W-33M1
7N/33W-27G1
8N/32W-30E6
9N/24W-33M1
9N/33W-2A7
9M/33W-10M1, Bucio (alternate)
9N/33W-17B1, Addamo
9N/34W-3A2
10N/25W-21Q2 (Kidds)
10N/25W-34N1
10N/26W-20M1
10N/33W-20H1
10N/33W-22N3
10N/33W-30G1
10N/34W-4R2
10N/34W-14E4 (alternate)
10N/34W-14E5
10N/34W-29N1
10N/35W-14D3

**TOTAL – 17 Samples**

**DISCONTINUED**

10N/25W-20H2
10N/25W-20H3 (alternate)
10N/26W-9H1(alternate)
10N/26W-10M1
10N/26W-15B1(alternate)
10N/26W-16R1 (alternate)
10N/26W-22Q2
10N/26W-24J4

**August Groundwater (Lompoc)**

7N/34W-27P5*
7N/35W-17Q6*
7N/35W-21G2*
7N/35W-26F5*

**TOTAL – 4 Samples**

**Mr. Jonathan S. Frye, Interim Deputy Director- Santa Barbara County Water Agency**

List B Continued

Groundwater Quality Sampling
Santa Barbara County Water Agency
(updated 07/01/10 by M.C. Scrudato)

**November Groundwater (Guadalupe Dunes)**

10N/36W-2Q1**
10N/36W-2Q3**
10N/36W-2Q4**
10N/36W-2Q7**
11N/36W-35J2**
11N/36W-35J3**
11N/36W-35J4**
11N/36W-35J5**
**TOTAL – 8 Samples**

**GRAND TOTAL – 29 groundwater samples**

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

**Mr. Jonathan S. Frye, Interim Deputy Director- Santa Barbara County Water Agency**

List C

Chemical Constituents
(mg/L or as indicated)

Dissolved boron (µg/L)

Dissolved calcium

Dissolved chloride

Dissolved fluoride

Dissolved iron (µg/L)

Dissolved manganese (µg/L)

Dissolved magnesium

Dissolved nitrogen (nitrate + nitrite)

Dissolved orthophosphate ($PO_4$)

Dissolved orthophosphorus (P)

Dissolved potassium

Dissolved silica

Dissolved sodium

Dissolved sulfate

Dissolved solids (sum)

Sodium adsorption ratio

Percent sodium

Total alkalinity ($CaCO_3$)

Total hardness ($CaCO_3$)

Temperature °C

pH

Specific conductance (microsiemens)

Schedules used: 101, 117

Lab Codes used: 27

Additional analysis for monitoring wells noted by a single asterisk in List B includes: Lab Codes as 1202, Iodine and 1786 as Barium

Double asterisk for lab code 1246 as Bromide.