

LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT

M E M O R A N D U M

DATE: AUGUST 23, 2016

TO: BOARD OF DIRECTORS
Lake Arrowhead Community Services District

FROM: 
CATHERINE CERRI, Interim General Manager

SUBJECT: CONSIDER AGREEMENT WITH THE UNITED STATES
GEOLOGICAL SURVEY FOR WATER YEAR 2017
OPERATIONS AND MAINTENANCE OF STREAM AND
RAIN GAGING STATIONS

A. RECOMMENDATION

It is recommended that the Board of Directors:

1. Approve the agreement with the United States Geological Survey (USGS) for continued operations and maintenance of one stream gaging station and one precipitation monitoring station as detailed in Attachment 1; and
2. Authorize the Interim General Manager to execute the USGS Joint Funding Agreement (JFA).

B. REASON FOR RECOMMENDATION

To continue operation and maintenance of stream and precipitation gaging stations in the Lake Arrowhead watershed as recommended in the District's Integrated Water Resources Program (IWRP) that was completed in December 2007.

C. BACKGROUND INFORMATION

The District secured approximately \$250,000 in the Federal Fiscal Year (FFY) 2007 and \$484,000 in the FFY 2008 United States Bureau of Reclamation (BOR) portion of the House Energy and Water Appropriations Bill to develop the District's IWRP. The District and the Bureau worked together to complete the IWRP Final Report in 2007 under Federal Cooperative Agreement #06-FC-35-0188. In FFY 2008 the agreement was amended and work continued on the following:

- o Surface and groundwater monitoring and data collection

- Hydrodynamic and bathymetric investigations of Lake Arrowhead
- Participation in a southern California brine-concentrate management study
- Expanded recycled water service and alternative pipeline alignments

The District received another \$1,000,000 in the FFY 2010 BOR portion of the House Energy and Water Appropriations Bill that was signed by the President of the United States signed into law in October 2009 for continued development of the District's IWRP. A portion of this appropriation was utilized to fund the USGS gaging stations.

The proposed agreement for the period November 1, 2016 to October 31, 2017 will be for maintenance and data storage for one precipitation gage and one stream flow gage at the tunnel entrance to the lake. The total cost of the proposed cooperative water-resources program for Water Year (WY) 2017 is \$20,300. If Federal matching funds are not available, the entire cost will be the responsibility of the Lake Arrowhead Community Services District of \$27,700. The proposed costs for WY 2017 by program element are as follows:

Program Element	LACSD Funds	USGS Funds	WY 2017
1.Surface-Water Monitoring	\$14,700	\$7,400	\$22,100
2. Precipitation Monitoring Network	5,600	-0-	5,600
TOTAL	\$20,300	\$7,400	\$27,700

D. FISCAL INFORMATION

The fiscal year 2016/2017 budget includes \$29,300 for surface water and groundwater monitoring. If the USGS cost share is approved the total LACSD share would be \$20,300 for FY 2017/2018. If not, the total cost to the District will be \$27,700.

Next year, the District will be seeking cost sharing with the Arrowhead Lake Association for the maintenance of the Tunnel Outlet stream gage.

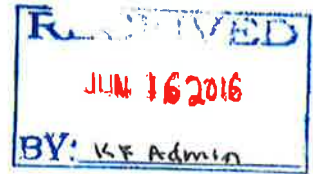
E. ATTACHMENTS

Attachment 1 – June 10, 2016 Letter from USGS and Joint Funding Agreement



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>

June 10, 2016

Mr. Leo Havener, General Manager
Lake Arrowhead Community Services District
27307 State Highway 189
P.O. Box 700
Lake Arrowhead, California 92352

Dear Mr. Havener:

This letter confirms discussions between our respective staffs, concerning the continuation of the cooperative water resources program between the Lake Arrowhead Community Services District (LACSD) and the U.S. Geological Survey (USGS) during the period November 1, 2016 to October 31, 2017.

The proposed program elements and associated costs during the period of November 1, 2016 to October 31, 2017 are as follows:

The surface water program will consist of the continued operation and maintenance of the streamgaging station on Grass Valley Lake Tunnel Outlet at Lake Arrowhead, installed during water year 2008. The station consists of a Data Collection Platform (DCP) equipped with a pressure transducer capable of recording gage height (stage) readings at 15 minute intervals. Data collected from the streamgaging station is transmitted hourly and stored in the National Water Information System (NWIS) at <http://nwis.waterdata.usgs.gov>. Data for Grass Valley Lake Tunnel Outlet may be viewed at http://waterdata.usgs.gov/nwis/uv?site_no=10260855.

1. Surface Water Monitoring

The station costs are as follows:

<u>Station number and name</u>	<u>LACSD Funds</u>	<u>USGS Funds</u>	<u>Total Funds</u>
10260855 Grass Valley Lake Tunnel outlet at Lake Arrowhead	\$14,700	\$7,400	\$22,100
TOTAL	\$14,700	\$7,400	\$22,100

All data collected will be entered into the USGS database with appropriate quality control, published, and will be available upon request.

Total WY17 USGS cost for Element 1 -- \$ 22,100

Mr. Leo Havener, General Manager - Lake Arrowhead Community Services District

2. Precipitation Monitoring

The precipitation monitoring program will consist of the continued operation and maintenance of the Bernina Drive Precipitation Gage at Lake Arrowhead (341545117124001). The USGS will perform an annual calibration of the precipitation gage and will work in cooperation with LACSD staff to ensure that the gage is functioning properly or repaired as necessary. The measured data from the precipitation gage will be reviewed for quality assurance and input into the National Water Information System (NWIS). The USGS will publish the precipitation data in the USGS annual data report at the end of WY17. Date for the site can be viewed online at http://waterdata.usgs.gov/nwis/uv?site_no=341545117124001.

The station costs are as follows:

<u>Station number and name</u>	<u>LACSD Funds</u>	<u>USGS Funds</u>	<u>Total Funds</u>
341545117124001 Bernina Drive Precipitation Gage at Lake Arrowhead	\$5,600	\$-0-	\$5,600
TOTAL	\$5,600	\$-0-	\$5,600

Total WY 2017 USGS cost for Element 2 – \$5,600

SUMMARY

The total cost of the proposed cooperative water-resources program in WY17 is \$27,700. The cost to LACSD is \$20,300 and subject to the availability of Federal matching funds, the USGS will provide \$7,400. The proposed costs for WY17 by program element are as follows:

Program Element	LACSD Funds	USGS Funds	Total Funds
1. Surface-Water Monitoring	\$14,700	\$7,400	\$22,100
2. Precipitation Monitoring Network	5,600	-0-	5,600
TOTAL	\$20,300	\$7,400	\$27,700

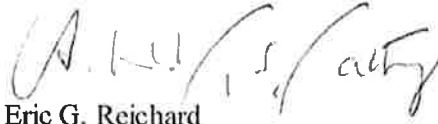
Enclosed are two originals of Joint Funding Agreement (JFA) 17WSCA42200, signed by our agency, for your approval. If you are in agreement with this proposed program, please return one fully executed JFA to our office. Work performed with funds from this agreement will be conducted on a fixed-price basis. 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, 2016. If it is not received by November 1, we will be required to suspend operations until an agreement is received.

Mr. Leo Havener, General Manager - Lake Arrowhead Community Services District

If you have any questions concerning this program please contact Bob Blanchard in our Redlands office at (909) 798-3272. If you have any administrative questions please contact Tammy Seubert in our Sacramento Office at (916) 278-3040.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric G. Reichard". The signature is fluid and cursive, with the first name "Eric" being the most prominent.

Eric G. Reichard
Director, USGS California Water Science Center

Enclosures

cc: Robert Blanchard, USGS CAWSC

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

Agreement#: 17WSCA42200
Customer#: 6000001007
Project #: ZG009J5
TIN #: 95-3271920
USGS DUNS #: 1761-38857

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of the 1st day of November, 2016, by the U.S. GEOLOGICAL SURVEY, California Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT, 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 Lake Arrowhead Community Services District 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) include In-Kind-Services in the amount of \$0.00.

- (a) \$7,400.00 by the party of the first part during the period
November 1, 2016 to October 31, 2017
- (b) \$20,300.00 by the party of the second part during the period
November 1, 2016 to October 31, 2017
- (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.)

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

Agreement#: 17WSCA42200
Customer#: 6000001007
Project #: ZG009J5
TIN #: 95-3271920
USGS DUNS #: 1761-38857

USGS Technical Point of Contact

Name: Bob Blanchard
Supervisory Hydrologist
Address: 1653 Plum Lane
Redlands, CA 92374
Telephone: (909) 798-3272
Fax: (909) 335-3407
Email: rblanch@usgs.gov

Customer Technical Point of Contact

Name: Leo Havener
General Manager
Address: Post Office Box 700
Lake Arrowhead, CA 92352
Telephone: (909) 336-7137
Fax:
Email:

USGS Billing Point of Contact

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

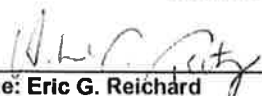
Customer Billing Point of Contact

Name:
Address:
Telephone:
Fax:
Email:

U.S. Geological Survey
United States
Department of Interior

LAKE ARROWHEAD
COMMUNITY SERVICES DISTRICT

Signature

By  Date: 6/10/2016
Name: Eric G. Reichard
Title: Director, USGS California Water Science
Center

Signatures

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title: