



BOARD OF SUPERVISORS
AGENDA LETTER

Agenda Number:

Clerk of the Board of Supervisors
105 E. Anapamu Street, Suite 407
Santa Barbara, CA 93101
(805) 568-2240

Department Name: Water Agency
Department No.: 054
For Agenda Of: 10/16/12
Placement: Administrative
Estimated Tme: N/A
Continued Item: No
If Yes, date from:
Vote Required: Majority

TO: Board of Directors, Water Agency

FROM: Department Scott D. McGolpin, Public Works Director, 568-3010
Director(s)
Contact Info: Thomas D. Fayram, Deputy Public Works Director, 568-3436

SUBJECT: **Cloud Seeding Program 2012-13, All Supervisorial District**

County Counsel Concurrence

As to form: Yes

Other Concurrence: Risk Management and
Planning & Development
As to form: Yes

Auditor-Controller Concurrence

As to form: Yes

Recommended Actions:

- a) Approve the 2012-2013 cloud seeding program and authorize the Chair to execute the agreement with North American Weather Consultants Inc. (not a local vendor) for cloud seeding for the period of November 15, 2012 through June 30, 2013 unless earlier terminated, in an amount not to exceed \$148,250; and
- b) Concur with the Planning and Development Department's finding that California Environmental Quality Act (CEQA) Section 15164 is applicable to 00-ND-29 and that this document is adequate to meet the requirements of CEQA for the Santa Barbara County-Twitchell Reservoir Cloud Seeding Program.

Summary Text:

The attached agreement with North American Weather Consultants, Inc. (NAWC) provides for a ground based cloud seeding program, similar to programs conducted during the last 31 years (excluding the 1985-1986 winter due to the Wheeler Fire and the 2007-2008 winter after the Zaca Fire). In 2011, the program was bid as a "professional services contract" with an option to re-hire the contractor without re-bidding for three years. NAWC was awarded the contract with two bids submitted, both from outside the local area. There are no local cloud seeding vendors. This year's proposed program targets the Twitchell Reservoir Watershed located in San Luis Obispo County and the Lake Cachuma Watershed on the Santa Ynez River. Only ground seeding delivery methods will be utilized this year. Special suspension criteria

have been established to avoid any undesirable effects from the program, especially areas that burned between 2007 and 2009. The South Coast and other urban areas are never targeted, only backcountry watersheds behind major reservoirs.

Meteorological monitoring services provided as part of the cloud seeding contract have proved to be invaluable during winter storm events. The program's certified meteorologist (who has access to sophisticated radar capability) is used to augment the Flood Control District's existing storm-monitoring capabilities.

Alignment with other River System interests and Safety concerns

When it is apparent that Twitchell Reservoir or Lake Cachuma will fill or flows on the Cuyama or Santa Ynez River and other tributaries that feed into the Reservoirs approach significant volume, seeding operations immediately cease. The program includes operational constraints designed to preclude or limit seeding effects over flood sensitive areas. Only backcountry areas behind major reservoirs are targeted, no urban areas are seeded. As a standard practice, the Flood Control District retains final decision-making authority over all seeding operations for safety reasons. The California Department of Water Resources (DWR) labels cloud seeding as a "safe and effective means of augmenting local water supplies".

Compliance with the California Environmental Quality Act

On November 28, 2000, your Board approved 00-ND-29 pursuant to the CEQA Guidelines. The Planning and Development Department reviewed the proposed 2012-2013 program and made the finding that CEQA Guidelines Section 15164 is applicable. CEQA Guideline Section 15164 allows an addendum to be prepared when only minor technical changes are proposed in the project or changes which would not create new significant impacts. This year's program incorporates minor changes which restrict cloud seeding operations and related impacts to levels less than those of past programs. Thus no additional review is required.

Background:

The cloud seeding program uses state of the art methods accepted by DWR to augment rainfall in designated target areas by injection of silver iodide into the cloud mass, acting as artificial condensation nuclei to form more raindrops. Cloud seeding has long been recognized as a cost-effective supplemental water supply alternative and, for that reason, has been an ongoing program of the County Water Agency since 1982 with the exception of the 1985-1986 winter after the Wheeler Fire and the 2007-2008 winter after the Zaca Fire. Twitchell Reservoir is mostly empty and has approximately 105,000 acre-feet of water conservation pool storage space available. Twitchell Reservoir reclaims storm runoff and releases it after the storm season at a slow rate to recharge the Santa Maria Groundwater Basin. Lake Cachuma currently has over 50,000 acre-feet of storage space available.

Fiscal and Facilities Impacts:

Budgeted: Yes

Fiscal Analysis:

<u>Funding Sources</u>	<u>Current FY Cost:</u>	<u>Annualized On-going Cost:</u>	<u>Total One-Time Project Cost</u>
General Fund			
State			
Federal			
Water Agency Funds	\$ 74,125.00		
Local Water Districts	\$ 74,125.00		
Total	\$ 148,250.00	\$ -	\$ -

Narrative:

The program cost continues to be 50/50 cost share between the Water Agency and the participating local water districts with the Water Agency providing administration of the project. This arrangement is considered equitable because the areas in the county located outside of water districts' service areas derive much of the benefit from the cloud seeding program.

This program was included in the 2012-2013 Adopted Budget under the Water Resources Division of the Public Works Department as identified on page D-144 in the budget book. No General Fund monies will be utilized with these actions.

Special Instructions:

Direct the Clerk of the Board to send two originals of the Agreement with NAWC along with the minute order to the Water Agency office, Attn: Christina Lopez

Attachments:

- CEQA Determination from Planning and Development
- Agreement for Services of Independent Contractor w/NAWC (3 originals)
- Contract Summary

Authored by: Dennis Gibbs, Hydrologist, Sr., 739-8781