

**Letters or Comments Regarding This Plan**



**CALIFORNIA WATER SERVICE COMPANY**  
3351 EL CAMINO REAL • SUITE 190 • ATHERTON, CA 94027-3844  
(650) 367-6800 • FAX (650) 367-7605

**BEAR GULCH DISTRICT**

September 8, 2005

Mr. Art Jensen  
General Manager  
Bay Area Water Supply and Conservation Agency  
155 Bovet Road  
Suite 302  
San Mateo, CA 94402

Dear Mr. Jensen:

Please find attached a draft copy of California Water Service Company's 2005 Urban Water Management Plan for the Bear Gulch District. This plan, as required by the California Water Code §10644(a), is made available to cities and counties within the district service area for review and comment. The final form of the plan is required by the California Department of Water Resources on or before December 31, 2005. The review and comment period of this plan will end at close of business on November 30, 2005.

This Urban Water Management Plan is a foundation document and source of information for a Water Supply Assessment and a Written Verification of Water Supply. The Urban Water Management Plan also serves as a long-range planning document for water supply and can be a source document for cities and counties for the preparation of the General Plans. Review of this plan will benefit both of our organizations.

Please acknowledge that this report has been received and reviewed. Please send any comment or question to the preparer of this Urban Water Management Plan:

Thomas Salzano  
Water Resources Planning Supervisor  
(408) 367-8340 (phone)  
(408) 367-8427 (fax)  
tsalzano@calwater.com

Thank you for your time.

Sincerely,

  
Darin T. Duncan  
District Manager



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**BEAR GULCH DISTRICT**

September 8, 2005

Mr. Pat Stone  
City of Menlo Park  
701 Laurel Road  
Menlo Park, CA 94025

*Pat,  
Let me know if you would  
like any of this in electronic  
format. Dan*

Dear Mr. Stone:

Please find attached a draft copy of California Water Service Company's 2005 Urban Water Management Plan for the Bear Gulch District. A portion of Menlo Park is within the California Water Service Company's service area. This plan, as required by the California Water Code §10644(a), is made available to cities and counties within the district service area for review and comment. The final form of the plan is required by the California Department of Water Resources on or before December 31, 2005. The review and comment period of this plan will end at close of business on November 30, 2005.

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**BEAR GULCH DISTRICT**

September 8, 2005

Ms. Ellen Levin  
San Francisco Public Utilities Commission  
Planning Bureau  
1145 Market Street  
Suite 401  
San Francisco, CA 94103

Dear Ms. Levin:

Please find attached a draft copy of California Water Service Company's 2005 Urban Water Management Plan for the Bear Gulch District. This plan, as required by the California Water Code §10644(a), is made available to cities and counties within the district service area for review and comment. The final form of the plan is required by the California Department of Water Resources on or before December 31, 2005. The review and comment period of this plan will end at close of business on November 30, 2005.

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District Manager



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**BEAR GULCH DISTRICT**

September 8, 2005

Mr. John Maltbie  
County Manager  
San Mateo County  
400 County Center  
Redwood City, CA 94063

Dear Mr. Maltbie:

Please find attached a draft copy of California Water Service Company's 2005 Urban Water Management Plan for the Bear Gulch District. Portions of unincorporated San Mateo County are within the California Water Service Company's service area. This plan, as required by the California Water Code §10644(a), is made available to cities and counties within the district service area for review and comment. The final form of the plan is required by the California Department of Water Resources on or before December 31, 2005. The review and comment period of this plan will end at close of business on November 30, 2005.

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**BEAR GULCH DISTRICT**

September 8, 2005

Ms. Leslie Moulton  
Director, Water and Wastewater Services  
ESA Consultants  
225 Bush Street  
Suite 1700  
SF, CA 94101

Dear Ms. Moulton:

Please find attached a draft copy of California Water Service Company's 2005 Urban Water Management Plan for the Bear Gulch District. This plan, as required by the California Water Code §10644(a), is made available to cities and counties within the district service area for review and comment. The final form of the plan is required by the California Department of Water Resources on or before December 31, 2005. The review and comment period of this plan will end at close of business on November 30, 2005.

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**BEAR GULCH DISTRICT**

September 8, 2005

Mr. Howard Young  
Public Works Director  
Town of Portola Valley  
765 Portola Road  
Portola Valley, CA 94028

Dear Mr. Young:

Please find attached a draft copy of California Water Service Company's 2005 Urban Water Management Plan for the Bear Gulch District. Portola Valley is within the California Water Service Company's service area. This plan, as required by the California Water Code §10644(a), is made available to cities and counties within the district service area for review and comment. The final form of the plan is required by the California Department of Water Resources on or before December 31, 2005. The review and comment period of this plan will end at close of business on November 30, 2005.

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District Manager



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**BEAR GULCH DISTRICT**

September 8, 2005

Mr. Kent Dewell  
Public Works Director  
Town of Woodside  
2955 Woodside Road  
Woodside, CA 94062

Dear Mr. Dewell:

Please find attached a draft copy of California Water Service Company's 2005 Urban Water Management Plan for the Bear Gulch District. A large portion of Woodside is within the California Water Service Company's service area. This plan, as required by the California Water Code §10644(a), is made available to cities and counties within the district service area for review and comment. The final form of the plan is required by the California Department of Water Resources on or before December 31, 2005. The review and comment period of this plan will end at close of business on November 30, 2005.

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District Manager



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**BEAR GULCH DISTRICT**

September 8, 2005

Mr. Kent Steffens  
Public Works Director  
City of Menlo Park  
701 Laurel Road  
Menlo Park, CA 94025

Dear Mr. Steffens:

Please find attached a draft copy of California Water Service Company's 2005 Urban Water Management Plan for the Bear Gulch District. A portion of Menlo Park is within the California Water Service Company's service area. This plan, as required by the California Water Code §10644(a), is made available to cities and counties within the district service area for review and comment. The final form of the plan is required by the California Department of Water Resources on or before December 31, 2005. The review and comment period of this plan will end at close of business on November 30, 2005.

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tsalzano@calwater.com

---

Thank you for your time.

Sincerely,

Darin T. Duncan  
District Manager



# Request For Customer Bill Text, Bill Insert, Special Mailing or Advertisement

Date of Request: \_\_\_\_\_ **9/29/2005**

Name: **Sal Peinado**

District or Department: **Rates**

Effective Date: \_\_\_\_\_

Advise Ltr. # \_\_\_\_\_

Start Date for Item: **10/28/2005**

End Date **Special Mailing**

Duration of Request:  Permanent

For the period of \_\_\_\_\_  
Billing cycles \_\_\_\_\_

District (s) Affected:  All Districts

The Following Districts

**BG (4110006)**

(Use district codes - rate area codes - DHS codes, to identify affected accounts)

Attach Text in Hard Copy, Diskette, Cassette or CD

(if text is not developed by C.W.S)

- Bill Text
- Bill Insert
- Special Mailing
- Advertisement

Routing and Approval:

		Date
Director Corp. Comm.	<u>Stan Ferraro</u>	<u>10/3/2005</u>
Director Cust. Serv.	<u>Ed Sliger</u>	<u>3-Oct</u>
Billing Manager	<u>Chris Carrasco</u>	_____
District Manager	_____	_____
Commercial Manager	_____	_____
Development Manager	_____	_____
Rates Manager	_____	_____
Q.A. Manager	_____	_____

If request was modified, delayed, or denied, indicate in space below w/justification.

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**Notice of Public Participation Hearings  
California Water Service Company – Bear Gulch Service Area  
Application No. 05-08-007**

California Water Service Company (Cal Water) has filed Application 05-08-007 requesting rate increases in the BEAR GULCH district of \$2,107,653 or 11.16% in fiscal year 2006-2007, \$1,099,700 or 5.24% in fiscal year 2007-2008, and \$1,099,700 or 4.97% in fiscal year 2008-2009. **The California Public Utilities Commission will hold a Public Participation Hearing November 14, 2005 in Menlo Park on the Company's application** to hear customers' views on the proposed increases and any other aspect of the company's operations. As part of the hearing, Cal Water is also seeking your comment on its Urban Water Management Plan filed with the Application. Copies of the plan are available from Cal Water's offices and will be provided at the hearing.

In three other current applications, Cal Water has also proposed a new, alternative ratemaking mechanism called a "rate base equalization account" (RBEA). If the Commission approves this proposal, the cost of major capital improvements necessary to meet water quality standards and water supply needs in high cost districts would be spread among all 24 Cal Water Districts. Cal Water estimates that this would result in increased charges to all customers of approximately \$0.61 per month. The Commission's staff has also indicated that it may propose special rates to lessen the effects of any increases on qualifying low-income customers.

The following table shows Cal Water's forecasted rate changes by connection type:

**Monthly Metered Service Charge** Proposed Rates in Cal Water's Application

<u>Meter Sizes</u>	<u>Present Rates</u>	<u>2006 Rates</u>	<u>2007 Rates</u>	<u>2008 Rates</u>
5/8 x 3/4-inch	\$12.15	\$16.22	\$17.00	\$17.78
3/4-inch	\$18.25	\$24.33	\$25.50	\$26.67
1-inch	\$22.85	\$30.50	\$31.97	\$33.44
1 1/2-inch	\$33.50	\$44.72	\$46.87	\$49.02
2-inch	\$49.00	\$65.41	\$68.55	\$71.70
3-inch	\$102.00	\$136.16	\$142.70	\$149.25
4-inch	\$170.00	\$226.93	\$237.84	\$248.75
6-inch	\$305.00	\$407.13	\$426.71	\$446.29
8-inch	\$972.00	\$1,297.49	\$1,359.89	\$1,422.28
10-inch	\$1,397.25	\$1,865.15	\$1,954.84	\$2,044.53
12-inch	\$2,004.75	\$2,676.08	\$2,804.77	\$2,933.46
14-inch	\$2,733.75	\$3,649.20	\$3,824.68	\$4,000.17

**Quantity Charges (Per Ccf)**

<u>Potable Water</u>	\$2.4026	\$2.532	\$2.6572	\$2.7823
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Under Cal Water's proposal, rates for each year would become effective on July 1. Rate increases for 2007 and 2008 are derived using current inflation factors. The actual 2007 and 2008 increases could be higher or lower based on the latest inflation factors available at the time the increases take effect.

A majority of residential customers in the Bear Gulch District have 5/8 x 3/4" meters. The average customer uses about 28 Ccf of water per month and would see their monthly water bill increase by \$7.70 or 9.69% from \$79.42 at present rates to \$87.12 in mid-2006, by an additional \$4.28 or 4.92% to \$91.40 in mid-2007, and by an additional \$4.28 or 4.69% to \$95.68 in mid-2008.

The effect on your water bill will vary depending on whether you use more or less water than these averages, or if you have a meter larger than 5/8" x 3/4". The rates shown on your monthly water bill may vary slightly from the existing rates shown above due to temporary surcredits or surcharges currently in effect in your area.

**An Administrative Law Judge from the California Public Utilities Commission will conduct a Public Participation Hearing session on November 14, 2005, at 7:00 p.m., in the City of Menlo Park Senior Center, 110 Terminal Avenue, Menlo Park, CA 94025**

The Public Utilities Commission encourages you to attend these hearings and express your views. If specialized accommodations are needed, such as sign language or other interpreters, please contact the Commission's Public Advisor's Office at (415) 703-2074, toll-free at 1-866-849-8390, TTY toll-free at 1-866-836-7825, or regular TTY at (415) 703-5282 at least 5 working days before the event.

If you cannot attend a Public Participation Hearing, you may submit written comments to: Public Advisor's Office, California Public Utilities Commission, 505 Van Ness Avenue, San Francisco, CA 94102, or by e-mail to [Public.advisor@cpuc.ca.gov](mailto:Public.advisor@cpuc.ca.gov). You may also call the Commission at 866-849-8390 (toll free). Please mention that you are writing about Application 05-08-007. Your comments will be circulated to the Commissioners and will become part of the correspondence file available to the Commission as it decides this application.

Evidentiary hearings devoted to analyzing the need for the requested rate increase and ways of allocating any approved increases among different classes of customers are scheduled to begin in January 2006 at the Commission's Offices in San Francisco. Please confirm the schedule by visiting the Commission's website at [www.cpuc.ca.gov](http://www.cpuc.ca.gov), then clicking on the Daily Calendar link. These are technical hearings at which the Commission receives the testimony of experts on both sides who have examined Cal Water's application in great detail. Evidentiary hearings are open to the public, but only those presenting evidence or cross-examining witnesses may participate. For more information about becoming a party and participating in the evidentiary hearings, contact the Commission's Public Advisor at the address above.

Parties at the evidentiary hearings may offer proposals that differ from those requested by Cal Water. After considering all proposals and evidence presented during the formal hearing process, the Commission will issue a final decision on Application 05-08-007 that may adopt all or part of Cal Water's proposal, amend or modify it, or deny the application. The Commission's final decision may be different from Cal Water's proposal.

A copy of Cal Water's Application and further information may be obtained from the company's local offices by calling (650) 367-6800. You may also contact the company's headquarters at 1720 North First Street, San Jose, California 95112-4598, or by calling (408) 367-8200.

CALIFORNIA WATER SERVICE COMPANY

**Bolzowski, Michael**

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**From:** Salzano, Tom  
**Sent:** Thursday, November 03, 2005 12:51 PM  
**To:** Bolzowski, Michael  
**Subject:** FW: UWMP ~ Important Clarification on How To Use Data Sent To You From SFPUC  
**Importance:** High  
**Attachments:** uwmp reliability\_example\_burl.pdf

Michael,  
 Can you decipher this? Do you recall a June 1 letter?  
 Tom

---

**From:** Nicole Sandkulla [mailto:NSandkulla@bawsca.org]  
**Sent:** Thursday, November 03, 2005 12:44 PM  
**To:** Alex Ameri (E-mail); Bob Wilson (E-mail); Cathy Lazarus (E-mail); Cathy Remeleh (E-mail); Chu Chang (E-mail); cyrus@csgengr.com; cyrus@csgwebsite.com; Darryl Barrow (E-mail); Darryl Wong (E-mail); Duncan, Darin; Dennis Ma (E-mail); Doug Chun (E-mail); Ed Schmidt (E-mail); Fernando Bravo (E-mail); George Bagdon (E-mail); Girish Balachandran (E-mail); garmendariz@ci.milpitas.ca.gov; James Craig (E-mail); Jane Ratchye (E-mail); Weber, Jeannette; Jerry Flanagan (E-mail); Karl Stinson (E-mail); Kent Steffens (E-mail); Kevin O'Connell (E-mail); Khee Lim (E-mail); Lucy Xavier (Email); Mansour Nasser (E-mail); Marilyn Mosher (E-mail); marty@bonair.stanford.edu; Mike Anderson (E-mail); Patrick Sweetland (E-mail); Patrick Walter (Email); Paul Regan MPWD (E-mail); Peter Ingram (E-mail); Peter Skinner Senior Administrative Analyst (E-mail); Phil Witt (E-mail); Randy Breault (E-mail); Ray Towne (E-mail); Robert Howard (Email); Robin G. Saunders (E-mail); Ron Popp (E-mail); Ruben Nino (E-mail); Scott Munns (E-mail); Stanley Gage (E-mail); Syed Murtuza (E-mail); Tammy Hannon (E-mail); Tim Kirby (E-mail); Tracy Ingebrigtsen  
**Cc:** Amanda Cox (Email); David Bishop (Email); Eric Cartwright (Email); Jim Teter (E-mail); John Ulrich (E-mail); MikeG@bonair.Stanford.edu; Guzzetta, Rob; Tammy Hannon (E-mail); ajensen@bawsca.org; Benjamin Pink; Ray E. McDevitt; Salzano, Tom; Dave Bishop ; Valeria Rose; JBWhitcomb@aol.com; Zadeh, Jessica; nicole.quesada@sanjoseca.gov  
**Subject:** UWMP ~ Important Clarification on How To Use Data Sent To You From SFPUC  
**Importance:** High

Dear BAWSCA Representatives,

On June 1, 2005 each BAWSCA agency was sent a letter from Paula Kehoe, SFPUC, transmitting to you key information that your agency needs for preparing the water supply reliability information for your UWMP. Several agencies have called with questions about this data and how to utilize it. This email will provide some clarification of that data's use in your UWMP current and projected water supply reliability sections.

The information in question addresses (1) current and (2) projected (in 5 year increments) supply reliability in both normal years and single and multiple dry years. For the purposes of these exercises, the SFPUC modeling and historical hydrological sequence provides that the Single Dry Year (One Critical Year) is 1987 and the Multiple Dry Years are 1987, 1988, and 1989.

The June 1<sup>st</sup> letter from the SFPUC contains 3 tables that have been individualized for each BAWSCA agency. Each table has been specifically developed to correspond to individual BAWSCA agency purchase requests sent to SFPUC last spring.

To make it easier to learn how to use these 3 tables, I've prepared an example using City of Burlingame. I'll describe each step in the table below using Burlingame as an example and have attached marked up copies of Burlingame's Tables 1 and 3.

**TABLE 1 PROVIDES CURRENT (2005) SUPPLY RELIABILITY INFORMATION:**

Column 2, bottom line, shows how much water SFPUC would provide to your agency if there was no drought TODAY (0% system-wide drought)

Column 3, bottom line, shows how much water SFPUC would provide to your agency if there was one critical year TODAY (10% system-wide drought)

Columns 4-6, bottom line, show how much water SFPUC would provide to your agency if there was multiple dry years TODAY (10%, 20%, and 20% system-wide drought respectively)

**Example:**

Current Year (2005)

Burlingame Purchase Request = 4.77 mgd

Single Dry Year supply to Burlingame = 4.36 mgd

Multiple Dry Year supply to Burlingame = 4.36 mgd, 3.79 mgd, and 3.79 mgd respectively.

**TABLE 2 IDENTIFIES THE WATER SUPPLY OPTIONS INCLUDED IN THE SFPUC WATER SYSTEM IMPROVEMENT PROGRAM THAT RESULT IN THE WATER SUPPLY RELIABILITY SHOWN IN TABLE 3 FOR YOUR AGENCY.**

Column 1 identifies the specific water supply option (e.g. Crystal Spring Reservoir returned to full operating capacity of 22 bg)

Columns 2-6 show when that option comes on line. An "X" means it is implemented at its full capacity and a number means that it is being implemented incrementally.

**TABLE 3 PROVIDES THE PROJECTED (FUTURE) SUPPLY RELIABILITY INFORMATION FOR YOUR AGENCY IN NORMAL YEARS, SINGLE CRITICAL YEAR, AND MULTIPLE DRY YEAR SCENARIOS:**

Row 2 shows the purchase requests that an individual BAWSCA agency provided to SFPUC for years 2010, 2015, 2020, 2025, and 2030.

Column 1 shows the historical years included in the SFPUC historical hydrological sequence used for this modeling. The base year for a Single Dry Year is 1987. The base years for the Multiple Dry Years are 1987, 1988, and 1989.

Table 3 provides all the information each BAWSCA agency needs to identify the single critical year and multiple dry year supply available to it from SFPUC from 2010-2030 (in 5 year increments).

**Example:**

Year 2010

Burlingame asked for 4.80 mgd

Single Dry Year = 4.80 (1987, Single Dry Year)

Multiple Dry Years = 4.80 mgd (1987, Year 1), 4.51 mgd (1988, Year 2), and 4.51 mgd (1989, Year 3)

Year 2015

Burlingame asked for 4.62 mgd

Single Dry Year = 4.62 mgd (1987, Single Dry Year)

Multiple Dry Years = 4.62 mgd (1987, Year 1), 4.58 mgd (1988, Year 2), 4.58 mgd (1989, Year 3)

I hope this information is helpful to each of you as you complete your UWMPs.

PLEASE REVIEW YOUR CURRENT DRAFT UWMP AND BE SURE THAT THIS INFORMATION IS CORRECTLY INCLUDED IN YOUR PLAN. IT IS VERY IMPORTANT THAT YOUR UWMP REFLECT THIS INFORMATION ACCURATELY.

If you have any questions, please call either myself or Benjamin Pink at the BAWSCA office.

Nicole

---

Nicole M. Sandkulla, P. E.  
Senior Water Resources Engineer  
Bay Area Water Supply and Conservation Agency  
155 Bovet Road, Suite 302  
San Mateo, CA 94402  
Ph: (650) 349-3000 Fax: (650) 349-8395  
EMail: [NSandkulla@BAWSCA.org](mailto:NSandkulla@BAWSCA.org)  
Website: [WWW.BAWSCA.org](http://WWW.BAWSCA.org)

# TABLE 1 EXAMPLE → Burlingame

Table 1

Projected Burlingame, City of Deliveries for Three Multiple Dry Years Given Year 2005 Purchase Request

	Purchase Request Year 2005 mgd	One Critical Dry Year	Current Deliveries during Multiple Dry Years in mgd		
			Year 1	Year 2	Year 3
System-Wide Shortage in Percent	0%	10%	10%	20%	20%
BAWSCA Allocation mgd	177.9	167.4	167.4	138.9	138.9
Burlingame, City of	4.77	4.36	4.36	3.79	3.79

Table 2

UWMP Studies: Water Supply Reliability  
Water Supply Options for Years 2010 through 2030

	2010	2015	2020	2025	2030
Crystal Springs Reservoir (22bg)	x	x	x	x	x
Westside Basin Groundwater afa	4,500	7,000	8,100	8,100	8,100
Calaveras Reservoir Recov. (31.5 bg)		x	x	x	x
Districts' Transfer afa	23,200	23,200	29,000	29,000	29,000

"Current"  
Single  
Dry  
Year

"Current"  
Multiple  
Dry Year

TABLE 3 Example ~> Burlingame

→ Purchase Request (2010)  
→ Purchase Request (2015)

Table 3

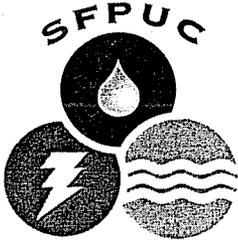
Allocation	SFPUC Purchase: Burlingame, City of mgd					SFPUC Purchase: All Wholesale Customers mgd				
	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
	Projected Delivery in mgd					Projected System-wide Delivery in mgd				
Delivery for Year beginning July 1	2010	2015	2020	2025	2030	2010	2015	2020	2025	2030
1920	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1921	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1922	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1923	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1924	4.80	4.62	4.60	4.62	5.01	188.9	191.6	197.5	203.6	185.7
1925	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1926	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1927	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1928	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1929	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1930	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1931	4.51	4.58	4.72	4.87	4.37	167.3	169.7	175.0	180.5	161.9
1932	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1933	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1934	4.51	4.62	4.60	4.62	5.01	167.3	191.6	197.5	203.6	185.7
1935	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1936	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1937	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1938	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1939	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1940	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1941	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1942	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1943	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1944	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1945	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1946	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1947	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1948	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1949	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1950	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1951	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1952	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1953	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1954	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1955	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1956	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1957	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1958	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1959	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1960	4.80	4.62	4.60	4.62	5.01	188.9	191.6	197.5	203.6	185.7
1961	4.51	4.58	4.72	4.24	4.37	167.3	169.7	175.0	157.4	161.9
1962	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1963	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1964	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1965	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1966	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1967	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1968	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1969	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1970	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1971	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1972	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1973	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1974	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1975	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1976	4.80	4.62	4.60	4.62	5.01	188.9	191.6	197.5	203.6	185.7
1977	3.93	4.58	4.72	4.24	4.37	145.6	169.7	175.0	157.4	161.9
1978	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1979	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1980	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1981	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1982	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1983	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1984	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1985	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1986	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1987	4.80	4.62	4.60	4.62	5.01	188.9	191.6	197.5	203.6	185.7
1988	4.51	4.58	4.72	4.87	4.37	167.3	169.7	175.0	180.5	161.9
1989	4.51	4.58	4.72	4.87	5.01	167.3	169.7	175.0	180.5	185.7
1990	3.93	4.58	4.11	4.24	4.37	145.6	169.7	152.5	157.4	161.9
1991	3.93	3.99	4.11	4.24	4.37	145.6	147.8	152.5	157.4	161.9
1992	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1993	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1994	4.80	4.62	4.60	4.62	5.01	188.9	191.6	197.5	203.6	185.7
1995	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4
1996	4.80	4.62	4.60	4.62	4.68	188.9	191.6	197.5	203.6	209.4

Single Dry Yr. (2010)

Multi Dry Year Supply (2010)

Multi-Dry Year (2015)

Single Dry Year (2015)



**WATER**  
**HETCH HETCHY**  
**WATER & POWER**  
**CLEAN WATER**

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**SAN FRANCISCO PUBLIC UTILITIES COMMISSION**

PLANNING BUREAU

1145 Market Street, Suite 401 San Francisco, CA 94103 • Tel. (415) 934-5700 • Fax (415) 934-5751



June 1, 2005

California Water Service Co.  
Darin Duncan  
3351 El Camino Real, Suite 190  
Atherton, CA 94027

Dear Mr. Duncan:

On May 27, 2005, the San Francisco Public Utilities Commission (SFPUC) sent you a letter with information pertaining to the SFPUC's water supply reliability to assist you with the development of your Urban Water Management Plan.

Upon review of the 2005 wholesale purchase projections used in the analysis, it was determined that there was a miscommunication on the figures used for the 2005 water purchase projections. The SFPUC used the average purchase estimate rather than the FY 03-04 purchase estimate shown in BAWSCA's *Attachment A-3 Sample Calculation*. Enclosed is the revised projection of FY 03-04 and is reflected in Table 1.

We apologize for any inconvenience this may have caused. Please do not hesitate to contact me if you have any questions or comments. I can be reached at (415) 554-0792.

Sincerely,

Paula Kehoe  
Manager of Water Resources Planning

cc: Nicole Sandkulla



## Attachment A-3. Suburban Shortage Allocations

### Assumptions and Column Notes

Avg. Shortage for the Suburban Purchasers = 23.6%  
Water available to the Suburban Purchasers = 135.93 mgd

#### Column notes:

Allocation Basis. The Allocation Basis is used for calculating Allocation Factors and is the average of the following three components:

1. First Fixed Component: The greater of either the Supply Assurance values or the three-year average of SFPUC purchases for FYs 1996-97, 1997-98, and 1998-99, with certain exceptions.
  - a. Daly City's and Purissima Hill's values are based on their three-year averages, which is greater than their Supply Assurance values.
  - b. Hayward's and Estero's values are based on their 2010-11 projected purchases, as reported in the BAWUA, 1997-98 Annual Survey.
  - c. San José's and Santa Clara's values are based on the water supply caps in their individual water supply contracts with the SFPUC.
2. Second Fixed Component: The average of SFPUC purchases for FYs 1996-97, 1997-98, and 1998-99.
3. Variable Component: The rolling three-year average, updated annually, beginning with FYs 1996-97, 1997-98, and 1998-99.
4. Average: The average of columns 1, 2, and 3.

Unadjusted Allocations. The initial shortage allocations in column 6 are adjusted for Santa Clara and San José in columns 10 through 13.

5. Allocation Factors: The ratio of each Suburban Purchaser's column 4 average to the column 4 total.
6. Initial Shortage Allocation: The product of each Suburban Purchaser's column 5 Allocation Factor times the column 6 total, which represents the assumed available water supply.
7. FY 2003-04 Purchases: The most recent year's purchases to which the Shortage Allocation can be compared to determine the effective outback.
8. Purchase Outback: Column 6 minus column 7, in mgd.
9. Purchase Outback: The ratio of column 8 to column 7, in percent.

Allocations Adjusted for Santa Clara and San José. This adjustment is made so that Santa Clara's and San José's cutbacks are at least as great as the highest outback by the permanent customers.

In this example, there is no adjustment required for San José because the formula results in an unadjusted outback that is already greater than the highest outback by a permanent customer.

10. Subtotal Allocation Factors: The ratio of each permanent Suburban Purchaser's column 4 average to the column 4 subtotal.
11. Adjusted Shortage Allocation: The product of each Suburban Purchaser's column 10 Subtotal Allocation Factor times the Column 11 subtotal.
  - a. The column 11 subtotal is the sum of the column 6 subtotal plus the Santa Clara adjustment.
  - b. The Santa Clara adjustment is the difference between its column 6 Initial Shortage Allocation and its Adjusted Shortage Allocation.
  - c. Santa Clara's Adjusted Shortage Allocation is the product of its column 4 average and the largest Purchase Outback received by the permanent Suburban Purchasers.
12. Adjusted Purchase Outback: Column 11 minus column 7, in mgd.
13. Adjusted Purchase Outback: The ratio of column 12 to column 7, in percent.

**Table 1**  
**Projected Cal Water Deliveries for Three Multiple Dry Years Given Year 2005 Purchase Request**

	Purchase Request Year 2005 mgd	One Critical Dry Year	Current Deliveries during Multiple Dry Years in mgd		
			Year 1	Year 2	Year 3
System-Wide Shortage in Percent	0%	10%	10%	20%	20%
BAWSCA Allocation mgd	177.9	157.4	157.4	136.8	136.8
Cal Water	38.25	31.32	31.32	27.23	27.23

**Table 2**

<b>UWMP Studies: Water Supply Reliability</b>					
<b>Water Supply Options for Years 2010 through 2030</b>					
	2010	2015	2020	2025	2030
Crystal Springs Reservoir (22bg)	x	x	x	x	x
Westside Basin Groundwater afa	4,500	7,000	8,100	8,100	8,100
Calaveras Reservoir Recov. (31.5 bg)		x	x	x	x
Districts' Transfer afa	23,200	23,200	29,000	29,000	29,000





# SAN FRANCISCO PUBLIC UTILITIES COMMISSION

PLANNING BUREAU

1145 Market Street, Suite 401 San Francisco, CA 94103 • Tel. (415) 934-5700 • Fax (415) 934-5751



May 27, 2005

California Water Service Co.  
Darin Duncan  
3351 El Camino Real, Suite 190  
Atherton, CA 94027

**GAVIN NEWSOM**  
MAYOR

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VICE PRESIDENT

**E. DENNIS NORMANDY**  
**ADAM WERBACH**  
**RYAN L. BROOKS**

**SUSAN LEAL**  
GENERAL MANAGER

Dear Mr. Duncan:

Thank you for providing us with your agency purchase estimate from the San Francisco Public Utilities Commission (SFPUC) for the years 2010, 2015, 2020, 2025 and 2030. With the information you provided, the SFPUC has assessed the water supply reliability under the following planning scenarios:

- Projected Single dry-year supply for 2005;
- Projected Multiple dry-year supply beginning 2005; and
- Projected supply reliability for years 2010, 2015, 2020, 2025 and 2030.

Table 1 summarizes your agency's deliveries for projected single dry-year supply for 2005 and projected multiple dry-year supply beginning 2005.

With regards to future demands, the SFPUC will expand their water supply portfolio by increasing the types of water supply resources. Table 2 summarizes the water supply resources assumed to be available by year through 2030. This expanded supply portfolio is consistent with the SFPUC's adopted Water Supply Master Plan (2000), adopted Capital Improvement Program (2002) and Water Supply Improvement Program.

Concerning allocation of supply during dry years, the Interim Water Shortage Allocation Plan (IWSAP) was utilized to allocate shortages (1) between the SFPUC and BAWSCA agencies as a whole and (2) among BAWSCA agencies. The IWSAP was adopted in 2000 after a multi-year process of development involving a steering committee representative of all wholesale agencies. While the IWSAP is scheduled to expire in 2009, along with the Master Contract, it represents the most reasonable basis for estimating the impacts of a 20% system-wide shortage.

Finally, the SFPUC estimated the frequency and severity of anticipated shortages given projected demands and system configurations for the period 2010 through 2030. For this analysis, we assumed that the historical hydrologic period is indicative of future events and evaluated the supply reliability assuming a repeat of the actual historic hydrological period 1920 through 2002. Again, this hydrological analysis is consistent with the planning efforts that have been adopted to date by the Commission and that are currently ongoing with the development of the Water System Improvement Program. The results of that analysis are summarized in Table 3 for years 2010, 2015, 2020, 2025 and 2030.

If you have any questions or need additional information, please do not hesitate to contact me at (415) 554-0792.

Sincerely,

  
Paula Kehoe  
Manager of Water Resources Planning

cc: Nicole Sandkulla

**Table 1**

Projected Cal Water Deliveries for Three Multiple Dry Years Given Year 2005 Purchase Request

	Purchase Request Year 2005 mgd	One Critical Dry Year	Current Deliveries during Multiple Dry Years in mgd		
			Year 1	Year 2	Year 3
System-Wide Shortage in Percent	0%	10%	10%	20%	20%
BAWSCA Allocation mgd	178.3	157.7	157.7	137.1	137.1
Cal Water	35.08	31.39	31.39	27.30	27.30

**Table 2**

**UWMP Studies: Water Supply Reliability**

Water Supply Options for Years 2010 through 2030

	2010	2015	2020	2025	2030
Crystal Springs Reservoir (22bg)	x	x	x	x	x
Westside Basin Groundwater afa	4,500	7,000	8,100	8,100	8,100
Calaveras Reservoir Recov. (31.5 bg)		x	x	x	x
Districts' Transfer afa	23,200	23,200	29,000	29,000	29,000



**Bolzowski, Michael**

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**From:** Benjamin Pink [BPink@bawasca.org]  
**Sent:** Thursday, November 10, 2005 2:36 PM  
**To:** Salzano, Tom; Bolzowski, Michael  
**Cc:** Nicole Sandkulla  
**Subject:** UWMP Comments

Hi Tom, Michael,

Thank you very much for sending me your updated pages for the Cal Water Bear Gulch UWMP.

I appreciate how you have revised the tables in Section 6. It is helpful for us to see how the supply from SFPUC is different from your local supplies in Table 6.1-1—6.1-3....this wasn't as clear in the first version of the tables.

I also like the appendix C worksheet. It is great how you broke out the supply projections for each cal water district for both single and multi-year drought sequences.

I do have one minor comment however.

That is that I believe that the SFPUC tables were meant to show droughts starting in 2010, 2015, 2020, 2025, and 2030. In other words, a multi-year drought starting in 2010 would be 2010, 2011, 2012, 2013, 2014 for example. A multi-year drought starting in 2015 would be 2015, 2016, 2017, 2018 for example. The percentage cutback to Bear Gulch in the multi-year sequence is 0% first year (2010), 10% second year (2011), 10% third year (2012), 20% fourth and fifth year (2013, 2014).

Your worksheet shows this slightly differently, with 2011 being the first year of the multi-year sequence instead of 2010. See how you have the 2011 value being 0% cutback? If I were doing the table, I'd show 2010 being 0% cutback and 2011 being 10% cutback.

Multi-Dry Year					
2010	2011	2012	2013	2014	2015
PA	SDY	MDY1	MDY2	MDY3	PA
35.78	35.78	32.13	32.13	27.97	35.47
35.78	35.78	32.13	32.13	27.97	35.47
35.78	35.78	32.13	32.13	27.97	35.47

Again, this is a minor point –you don't necessarily have to make changes if you don't want to.

Lastly, Nicole and I were curious as to why you didn't choose to project to 2030?

The DWR guidelines for the UWMPs suggest that "if your agency anticipates preparing an assessment or verification (of water supply) between 2006 and 2010, the inclusion of the 2030 data will allow you to utilize UWMP data for these purposes."

So I am assuming that you aren't planning on preparing any assessments between 2006 and 2010? I just wanted to check.

Thanks again for making those changes. I hope I'm not being too much of a pain in the #\$\$%

Benjamin Pink

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Benjamin Pink  
Water Resources Planner  
Bay Area Water Supply and Conservation Agency  
155 Bovet Road, Suite 302  
San Mateo, CA 94402  
Ph: (650) 349-3000 Fax: (650) 349-8395  
EMail: [bpink@bawsca.org](mailto:bpink@bawsca.org)  
Website: [www.bawsca.org](http://www.bawsca.org)