



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Office of the General Manager

December 21, 2011

Metropolitan Water District Board Delegation
San Diego County Water Authority
4677 Overland Avenue
San Diego, CA 92123-1233

Dear Board Members:

Response to December 12, 2011 letter on December 2011 Board Letter 9-1

On behalf of The Metropolitan Water District of Southern California (Metropolitan), thank you for your letter dated December 12, 2011, on the Metropolitan Board Letter 9-1, "Review options for updated Replenishment Program." This letter addresses your request for documents and data used in connection with the Replenishment Workgroup's discussions on developing staff's proposed changes to Metropolitan's replenishment program. Please see the attached reference letter for affirmation that Metropolitan has made materials available to all workgroup participants, including San Diego County Water Authority (Water Authority), via the ongoing workgroup process between Metropolitan staff, the member agencies, and groundwater basin managers. We appreciate the contributions made by Water Authority staff to the workgroup's discussions throughout the year.

Your letter also requested a response to questions and concerns raised in your letter dated November 4, 2011, regarding Metropolitan's Board Letter 8-8, "Approve policy principles for a replenishment program." It is Metropolitan's intent to address those questions as well as other frequently asked questions on the replenishment program in an information item to the Board in January 2012.

I hope this addresses your concerns. We appreciate the Water Authority's input and attention to these matters.

Very truly yours,

A handwritten signature in black ink, appearing to read "Jeff Kightlinger".

Jeffrey Kightlinger
General Manager

DHS:tt

Enclosure

Metropolitan Water District Board Delegation
San Diego County Water Authority
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cc: Board of Directors
J. Kightlinger
D. C. Man
M. L. Scully



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Office of the General Manager

December 21, 2011

Mr. Ken Weinberg
Water Resources Director
San Diego County Water Authority
4677 Overland Avenue
San Diego, CA 92123-1233

Dear Mr. Weinberg:

Replenishment Workgroup Materials

On behalf of The Metropolitan Water District of Southern California (Metropolitan), I want to express appreciation and acknowledgement of the San Diego County Water Authority's (Water Authority) participation throughout this year's Replenishment Workgroup process with Metropolitan staff, member agencies, and groundwater basin managers. The Water Authority has made significant contributions to our workgroup discussions, and we appreciated the technical overview presentation you gave in June 2011 on the Water Authority's local storage facilities and operations.

Water Authority staff has attended the workgroup meetings since they began in March 2011, and all workgroup meeting materials have been made available electronically to workgroup participants including yourself. In the Water Authority letter dated December 12, 2011, your directors requested the information that has been used as staff has developed the proposed changes to Metropolitan's replenishment program. As you know, the workgroup has reviewed extensive presentation materials that have led to the current proposal. If you are looking for copies of specific material, please let Mr. David Sumi know which items you need. Mr. Sumi can be reached at dsumi@mdh2o.com or (213) 217-6258.

For your information, I have included two attachments. The first is a table of Metropolitan's estimated annual probability of taking water from its State Water Project regional storage programs after 2011, based on a range of 83 historical hydrologies for each given year. The attachment shows the data that underlies the "Estimated Probability of Storage Use" line graph that you have seen in recent workgroup presentations and in Metropolitan's December 2011 Board Information Letter 9-1, "Review options for updated Replenishment Program."

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The second attachment shows cost details for Metropolitan's State Water Programs in 2011. These tables had not been provided to the Replenishment Workgroup as of the workgroup meeting on December 19, 2011.

Let us know if we can be of further assistance.

Very truly yours,

A handwritten signature in black ink, appearing to read "Deven N. Upadhyay". The signature is fluid and cursive, with a large initial "D" and "U".

Deven N. Upadhyay
Manager, Water Resources Management

DHS:tt

Enclosures (2)

cc: SDCWA Directors
MWD Board of Directors
J. Kightlinger
D. C. Man
M. L. Scully
D. H. Sumi
WRM file

Likelihood of Using Stored Water Over Time

Years From Put to Storage	Cumulative Frequency of Takes
0	0%
1	25%
2	35%
3	46%
4	58%
5	64%
6	67%
7	71%
8	71%
9	72%
10	76%
11	78%
12	81%
13	82%
14	82%
15	83%
16	84%
17	86%
18	88%
19	89%
20	90%
21	90%
22	90%
23	92%
24	93%

2011 - State Water Project Storage Programs Cost Details

Semitropic Groundwater Storage Program

Program Element	2011 Cost (Nominal)
Tier 2 Put Fee	\$81.85
<i>Put Subtotal¹</i>	<i>\$81.85</i>
Tier 2 Take Fee	\$74.41
Take Power Fee ²	\$84.87
<i>Take Subtotal</i>	<i>\$159.28</i>
Total Cycle Cost	\$241.13

Arvin-Edison Groundwater Storage Program

Program Element	2011 Cost (Nominal)
Put Regulation Fee	\$67.78
Put Power Fee ²	\$37.28
Put O&M Fee	\$10.20
<i>Put Subtotal¹</i>	<i>\$115.25</i>
Take Regulation Fee - Non Capital	\$78.27
Take Power Fee ²	\$71.44
Take O&M Fee	\$12.07
<i>Take Subtotal</i>	<i>\$161.78</i>
Total Cycle Cost	\$277.04

Kern Delta Groundwater Storage Program

Program Element	2011 Cost (Nominal)
Put Fee - Non Capital	\$71.96
Put O&M Fee	\$18.19
Canal Fee	\$13.88
Put Power Fee ²	\$14.51
<i>Put Subtotal³</i>	<i>\$118.54</i>
Take Fee	\$46.85
Take O&M Fee	\$21.08
Take Power Fee ²	\$45.11
<i>Take Subtotal</i>	<i>\$113.04</i>
Total Cycle Cost	\$231.57

¹ Includes a 10% program loss factor to equal 1 acre-foot of produced water

² 2011 power costs are estimated

³ Includes a 11% program loss factor to equal 1 acre-foot of produced water

Mojave Groundwater Storage Program

Program Element	2011 Cost (Nominal)
Put Fee	\$0.00
Take Fee	\$115.00
Total Cycle Cost	\$115.00

Average of All SWP Storage Programs

	2011 Cost (Nominal)
Average Puts	\$78.91
Average Takes	\$137.28
Average Total Cycle Cost	\$216.19