

February 19, 1999

To: Board of Directors (Water Planning and Resources Committee--Action)

From: General Manager _____

Submitted by: Debra C. Man, Chief _____
Planning and Resources

Subject: Local Resources Program for the Dry Weather Runoff Reclamation Facility

RECOMMENDATIONS

It is recommended that the Board:

1. Authorize the General Manager to execute a Local Resources Program agreement with the city of Santa Monica to implement the Dry Weather Runoff Reclamation Facility consistent with the major terms and conditions in this letter in form approved by the General Counsel; and
2. Certify that it has reviewed and considered the information provided in the Negative Declaration for the Dry Weather Runoff Reclamation Facility and adopt the Lead Agency’s findings related to the Project.

EXECUTIVE SUMMARY

The city of Santa Monica’s (Santa Monica) Dry Weather Runoff Reclamation Facility is one of the proposed projects selected under Metropolitan’s competitive Local Resources Program (LRP). The 14 projects were selected among a field of 28 proposals responding to the June 1998 Request for Proposals targeting 53,000 acre-feet of new LRP production. Consistent with the LRP, the final step in the process is Board authorization of the LRP agreement.

The Project complies with LRP criteria adopted by Metropolitan’s Board in June 1998. Subject to the Board’s approval, the proposed Project would receive financial assistance of \$150 per acre-foot over 25 years as requested in Santa Monica’s proposal. A corresponding annual contribution of approximately \$42,000 from the start of operation (2000-20001) through 2024-2025 will be included in future O&M budgets. Metropolitan’s total contribution would be about \$1.05 million for 7,000 acre-feet over 25 years.

Santa Monica’s 280 acre-feet per year (AFY) Project will increase regional water supply reliability by treating urban runoff from a storm drain and then serving that treated water for non-potable landscape irrigation purposes. This locally developed water improves regional water supply reliability by displacing requirements for future Metropolitan capital improvements and water importation.

DETAILED REPORT

In June 1998, with endorsement of the member agencies, Metropolitan established the Local Resources Program (LRP). Metropolitan issued a competitive Request for Proposals (RFP) for 53,000 acre-feet per year (AFY) of production. Twenty-eight proposals were received and in the ensuing two-month period reviewed by a committee made up of Metropolitan staff and water resource consultants using weighting criteria for ranking factors adopted by the Board. In December 1998, staff reported to the Board that the review committee identified 14 projects (see Attachment 1) that best meet the selection criteria. Those 14 projects would collectively yield about 51,500 AFY.

The Dry Weather Runoff Reclamation Facility is one of the 14 selected projects. The Project, to be located in the city of Santa Monica, will increase regional water supply reliability by treating urban runoff pumped from the Santa Monica Pier and Pico-Kenter storm drains for landscape irrigation purposes. Attachment 2 provides a description of the Project's features. The treated water will be served to customers in Santa Monica's service area and will displace an equal demand for Metropolitan's imported supplies. The Project's capacity is 280 AFY and that yield would be delivered year round.

The Project complies with LRP criteria adopted by Metropolitan's Board in June 1998. Subject to the Board's approval, the proposed Project would receive financial assistance of \$150 per acre-foot over 25 years as requested in Santa Monica's proposal. A corresponding annual contribution of approximately \$42,000 from the start of operation (2000-2001) through 2024-2025 will be included in future O&M budgets. Metropolitan's financial contribution to the Project would be provided to Santa Monica under a 25-year agreement term. Attachment 3 is a schedule of Metropolitan's projected annual contribution to the Project.

Project operation would help the region meet the year 2020 goal of 500,000 AFY for recovered groundwater and recycled water production. An estimated 125,000 AFY shortfall in meeting the goal was identified in the RFP. This locally developed water improves regional water supply reliability by displacing requirements for future Metropolitan capital improvements and water importation.

Pursuant to the California Environmental Quality Act (CEQA), Santa Monica, acting as the Lead Agency, prepared and approved a Negative Declaration for the Project. Metropolitan will not be responsible for implementing any of the mitigation measures associated with the Project. Metropolitan, as a Responsible Agency due to its financial participation in the Project, is required to review and consider the information provided in the Mitigated Negative Declaration prior to reaching a decision on the Project. Copies of the Initial Study, Mitigated Negative Declaration, and Notice of Determination are available for your review in the office of the Executive Secretary. No further environmental documentation is necessary for you to act upon in this matter.

AMH: jpa

Attachment 8-8A

Attachment 8-8B

Attachment 8-8C

Attachment 8-8A

**LOCAL RESOURCE PROGRAM
RECOMMENDED PROJECT LIST**

Project	Member Agency	Maximum Production (AFY)
1. Westlake Wells - Tapia WRF Intertie Project	Las Virgenes Municipal Water District	150
2. Rincon del Diablo Recycled Water Program	San Diego County Water Authority (SDCWA)	648
3. Non-Domestic Water System Development for Ladera Ranch and Talega Valley	Municipal Water District of Orange County (MWDOC)	2,772
4. Juan Well Filter Facility	Central Basin Municipal Water District	900
5. Olivenhain Recycled Project-Southeast Quadrant	SDCWA	1,788
6. Capistrano Valley Non-Domestic Water System Expansion	MWDOC	2,895
7. Temescal Basin Desalting Facility	Western Municipal Water District	10,000
8. Dry Weather Runoff Reclamation Facility	City of Santa Monica	280
9. Harbor Water Recycling Project	City of Los Angeles	5,000
10. Moulton Niguel Phase 4 Expansion	MWDOC	1,276
11. Encina Basin Water Reclamation Program - Phase 2	SDCWA	2,950
12. Colored Water Treatment Facility	MWDOC	11,300
13. Otay Recycled Distribution Expansion Project	SDCWA	8,515
14. Alamitos Barrier Reclaimed Water Project	Central Basin Municipal Water District	<u>3,024</u>
		51,498

Attachment 8-8B

Dry Weather Runoff Reclamation Facility Project Description

Overview

The city of Santa Monica's (Santa Monica) Dry Weather Runoff Reclamation Facility will divert and treat urban runoff pumped from the Santa Monica Pier and Pico-Kenter storm drains for freeway and landscape irrigation purposes. The Project will provide up to 280 acre-feet of recycled water to Santa Monica customers. The proposed Project, to be located adjacent to Santa Monica's existing Moss Avenue Pump Station and Santa Monica Pier, will include treatment facilities, recycled water pipelines and ancillary equipment. The proposed Project facilities are shown in Figure 1.

Treatment Facilities

Dry weather runoff from the Pico-Kenter and Santa Monica Pier storm drains is currently diverted to the wastewater collection system for treatment and disposal at the city of Los Angeles' Hyperion Treatment Plant (Hyperion). The Project will redirect that water and pump it through a 2,000 foot, 8-inch diameter polyvinyl chloride force main to a new treatment facility using two 15-horsepower, 175 gallons per minute (gpm) self-priming pumps. The Project will include modifications to the influent screening system by adding a coarser trash rack system and an additional side-stream skimming/screening unit.

Preliminary treatment will include a rotating drum screen and cyclone-type grit chamber. Screenings and grit will be sent to the Moss Avenue Pump Station for ultimate disposal at Hyperion. A 500,000 gallon flow equalization tank equipped with air mixing to reduce potential septic conditions and to prevent settling of solids is included. Approximately 60 percent of the tank, which consists of two bays, will be raw water storage and the remaining 40 percent will be finished water storage. A circular-type dissolved air flotation system and rapid mix polymer addition system will be provided to remove oil and grease from raw stormwater runoff. Microfiltration will be supplied to provide a high-quality finished water followed by a low intensity, UV disinfection system. Product water will meet current recycled water requirements and can also meet groundwater recharge requirements if reverse osmosis treatment is added.

Treated water will be discharged to a 350,000 gallon tank located beneath the treatment equipment. A pumping station which consists of a pair of 75-horsepower, 1,100 gpm pumps, will deliver water through a pipeline to users within two miles of the treatment plant. The new recycled water distribution system will begin at the treatment plant and involves construction of more than 14,000 linear feet of 4 to 12-inch diameter pipeline.

Public Education

The treatment facility will incorporate artistic elements to educate visitors about the purpose of the Project, dry-weather runoff sources, and the environmental impacts of illegal dumping into the storm drain system. Water moving through the system will be exposed to visitors to illustrate water quality as it passes through the treatment process. The facility will be architecturally designed to blend in with the surrounding environment and Santa Monica Pier.

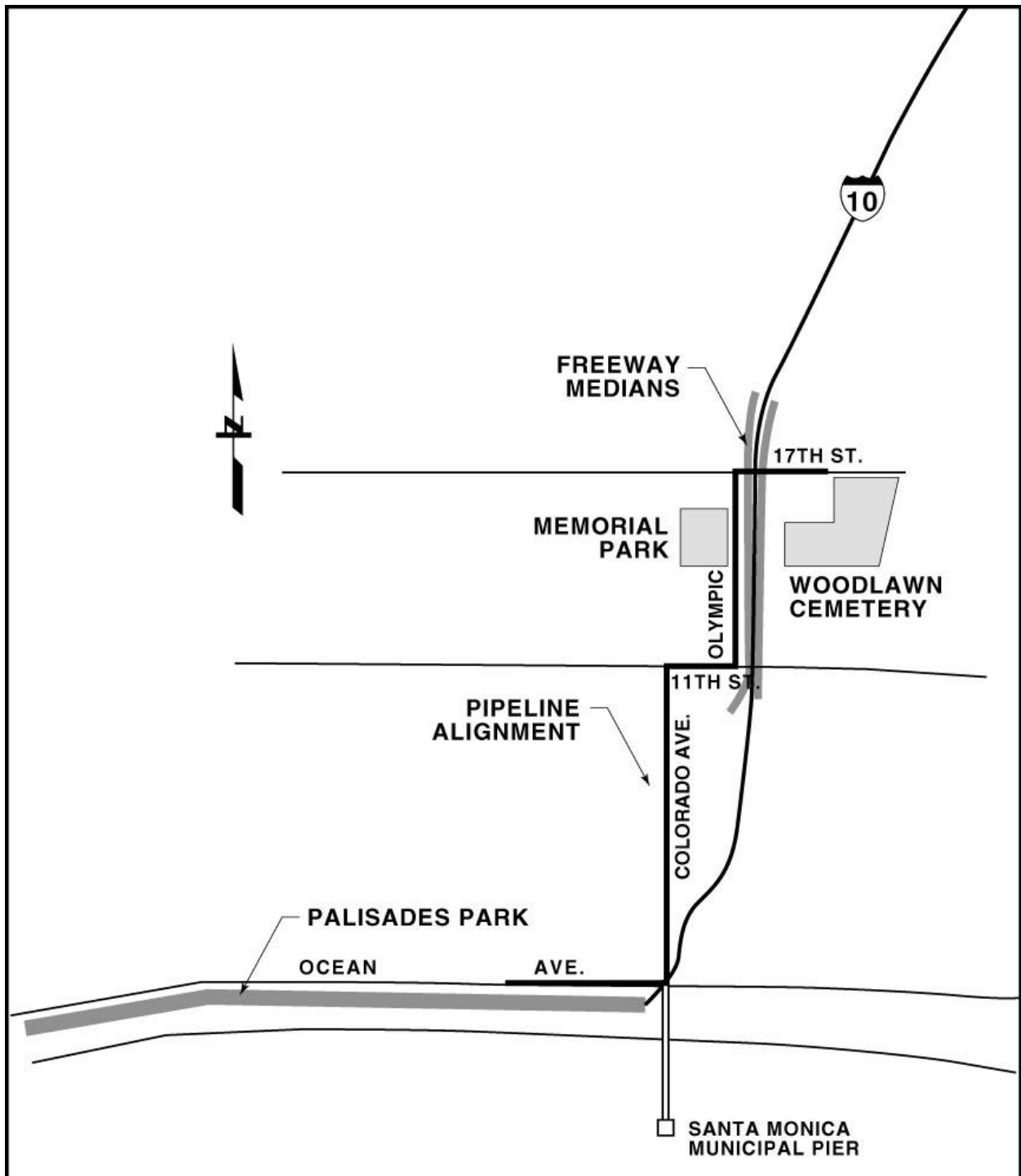


Figure 1
DRY WEATHER RUNOFF RECLAMATION FACILITY

Attachment 8-8C

Metropolitan’s Annual Contribution

<u>Fiscal Year</u>	<u>Incentive Rate</u> (\$/AF)	<u>Production</u> (AF)	<u>Annual Contribution</u> (\$)
2000-2001	150	280	42,000
2001-2002	150	280	42,000
2002-2003	150	280	42,000
2003-2004	150	280	42,000
2004-2005	150	280	42,000
2005-2006	150	280	42,000
2006-2007	150	280	42,000
2007-2008	150	280	42,000
2008-2009	150	280	42,000
2009-2010	150	280	42,000
2010-2011	150	280	42,000
2011-2012	150	280	42,000
2012-2013	150	280	42,000
2013-2014	150	280	42,000
2014-2015	150	280	42,000
2015-2016	150	280	42,000
2016-2017	150	280	42,000
2017-2018	150	280	42,000
2018-2019	150	280	42,000
2019-2020	150	280	42,000
2020-2021	150	280	42,000
2021-2022	150	280	42,000
2022-2023	150	280	42,000
2023-2024	150	280	42,000
2024-2025	150	280	42,000
		Total	\$1,050,000