

EXECUTIVE SUMMARY SHEET
CITY OF SAN DIEGO

DATE ISSUED: April 30, 2012
ATTENTION: Natural Resources & Culture Committee,
Agenda of May 23, 2012
ORIGINATING DEPARTMENT: Public Utilities
SUBJECT: 2010 Recycled Water Master Plan Update
COUNCIL DISTRICT(S): All
STAFF CONTACT: Jennifer Casamassima (619) 533-7402
Marsi A. Steirer (619) 533-4112

DESCRIPTIVE SUMMARY OF ITEM:

Adopt a resolution accepting the 2010 Recycled Water Master Plan Update as fulfillment of the elements outlined in Water Reclamation Ordinance, 64.0806 SDMC.

STAFF RECOMMENDATION:

Approve Requested Action.

EXECUTIVE SUMMARY:

The 2010 Recycled Water Master Plan Update (2010 RWMP) was undertaken to comply with the City's Water Reclamation Ordinance, adopted by the City Council in 1989 and incorporated into the Municipal Code (Chapter 6, Article 4, Division 8). The ordinance requires the City to have a Recycled Water Master Plan to define, encourage, and develop the use of recycled water within City boundaries; the plan is to be updated every five years. The last recycled water master plan, a 2005 update, was completed in tandem with the Water Reuse Study and approved by City Council in December 2007.

For improved efficiencies, the 2010 RWMP was included as a component of the larger scale Recycled Water Study (Study); the plan's market assessment serving as the foundation for non-potable demands in that Study. The main focus of the 2010 RWMP was to evaluate opportunities to maximize non-potable reuse (NPR) if projects identified in the Study are not pursued. The Study will provide recommendations to maximize indirect potable reuse options with some additional non-potable reuse in order to reduce effluent flows to the Point Loma Wastewater Treatment Plant and maximize recycling.

The following is covered in the 2010 RWMP: Purpose and Background, Baseline Recycled Water System, Recycled Water Supply, Initial Market Assessment, Distribution Expansion Opportunities/Refined Market Assessment and Implementation Plan. The 2010 RWMP describes the existing NPR and near-term expansions (through 2015) and identifies potential long-term NPR expansion concepts. By 2015, total citywide retail and wholesale projected recycled water demands are estimated at 15 million gallons per day (MGD), annual average. The majority of the increased demand will be in the Northern Service Area and come from new customer connections in close proximity to the existing infrastructure as well as completion of Phase II pipeline projects. Phase II expansion, defined in the 2000 and 2005 Recycled Water Master Plan Updates, extends the distribution system along the Hwy 56 corridor from Rancho Penasquitos to Carmel Valley.

The 2010 RWMP's market assessment summarized the potential non-residential, non-potable demands that exist within the City, as well as from neighboring water agencies. The researchers used data collected from a variety of sources including: potable water irrigation meter records, industrial waste discharge data to identify potential cooling tower customers, phone surveys conducted with commercial and industrial customers who use large quantities of water for non-potable purposes, and surveys completed by water agencies to determine potential wholesale demands. The aggregate data was then incorporated into location demand and recycled water density maps. These maps were used to identify smaller focus areas for further alternatives analysis. Seven main focus areas were identified that could be served by the North City Water Reclamation Plant or new satellite plants, potentially adding an estimated 8 MGD in new demands for a total citywide NPR demand of 23 MGD. These include: Infill (potential customers located along the existing pipelines), Carmel Valley West, Mira Mesa, Rancho Bernardo/I 15 corridor, Kearny Mesa, Mission Valley/Bay and Balboa Park/Central San Diego. Potential demands in the Southern portion of the City were also identified. However, this area was screened out from further analysis since the magnitude and concentration of the demands were low compared to other areas of the City.

FISCAL CONSIDERATIONS:

Not applicable at this time.

EQUAL OPPORTUNITY CONTRACTING INFORMATION (IF APPLICABLE):

Not applicable at this time.

PREVIOUS COUNCIL and/or COMMITTEE ACTION:

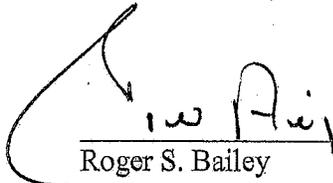
- Council adopted Ordinance 0-17327 on July 24, 1989 which amended the municipal code to establish the water reclamation [water recycling] master plan requirement.
- Council adopted Resolution R-293457 on July 17, 2000 to approve the Beneficial Reuse Study which served as the 2000 Recycled Water Master Plan Update.
- Council adopted Resolution R-303095 on October 29, 2007, with final passage on December 3, 2007, approving the Recycled Water Master Plan Update 2005.

COMMUNITY PARTICIPATION AND PUBLIC OUTREACH EFFORTS:

Community participation in this study included surveying commercial and industrial water customers using potable water for non-potable purposes and representatives from water agencies, located adjacent to the City of San Diego.

KEY STAKEHOLDERS AND PROJECTED IMPACTS:

This action is an initiative to comply with the requirements the Water Reclamation Ordinance, 64.0806 SDMC, which requires preparation of a Master Plan every 5 years.



Roger S. Bailey
Director of Public Utilities