

City of San Diego
Recycled Water Study
Technical Memorandum #3
Framework Planning Session

COMMENTS					
Adj. No.	NO.	REFERENCE	COMMENT	ACTION	TEAM RESPONSE
PA-1	1	1. Page 2	State within the introduction that the San Diego County Water Authority is the agency with primary responsibility for regional water supply planning efforts. Since the results of the completed study will have significant implications for the region as a whole, the SDCWA and the current wholesale recycled water purchasers of the City of San Diego all need to be a significant players in the development of the Study.	A-Other TM	
PA-2	2	1. Page 2	Address regional recycling water supply and demand opportunities and include all stakeholders in the development of the study.	CN	The study aims at developing recycled water projects that offset Point Loma Wastewater Treatment Plant to the benefit of all Participating Agencies (PAs). The Consulting team is planning projects within the City of San Diego's jurisdiction. The team will also incorporate and note the impacts of other agencies' regional projects where the project team is given sufficient data on the project details and timing. At the Status Update Meeting #5 (SUM5 is one of the bi-monthly meeting held with the stakeholders) meeting, the project team relayed this point to the stakeholders and we are relying on the PA representatives at these meetings to provide these details to the other PAs. At this time, we are using data provided by the PAs and other water purveyors during the preparation of the TMs to assess the anticipated non-potable reuse demands and the potential to serve those demands. We are also considering the impacts of other specific agency projects including the Helix/Padre Dam El Monte Valley IPR Project and Otay WD/Chula Vista Decentralized NPR project. Any missing projects should have been forwarded to the project team as part of the survey.

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PA-3	3	1.1 Page 2	Attach the Cooperative Agreement between the City of San Diego and Surfrider Foundation and San Diego Coast Keeper to the Recycled Water Study as an appendix item.	A-OTHER TM	This will be attached to the upcoming TM4 since it connects directly to the Point Loma offset issue.
PA-4	4	1.2 Page 2	As a part of the introduction of the Recycled Water Study Purpose several items need to be added. The stated purpose needs to be expanded. Add objectives and goals to achieve the purpose. The objectives and goals should be clear and short and in bullet format.	CN-Other TM	The purpose included in this TM was consistent with previous TMs. Any expansion of the objectives and goals must be addressed in the scope of services provided by the team.

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PA-5	5	1.2 Page 2	The purpose of the study needs to be expanded with clarification of the methods to achieve the objectives and goals. The objectives and goals need to be added and stated with specificity. Please add that by increasing the delivery of collected wastewater to the South Bay WRP by diverting flows that currently are transported to the Point Loma WTP will reduce flows to the Point Loma WWTP thereby lessening the magnitude of capacity that may need to be upgraded to secondary treatment. This will increase the use of recycled water within the San Diego region. The Otay WD is currently in need of additional recycled water supply from the South Bay WRP. The City of San Diego within a few short years will be unable to meet the recycled water supply requests of the Otay WD for the increasing recycled demand markets. When this happens the Otay WD will be compelled to use imported treated water to supplement water supplies into the recycled water system to meet a portion of the recycled water demand. Wastewater flows to the SBWRP need to be increased to at least 15 mgd, the capacity of the SBWRP, to meet recycled water demands of the Otay WD and few other existing recycled water customers. Also, the longer term demands of the Otay WD for recycled water for irrigation only purposes exceed 18 mgd thus the SBWRP capacity should be and can be increased above 15 mgd to treat the flows diverted from the Point Loma WTP.	CN- Other TM	TM5 focuses on a more detailed evaluation of delivery options for NPR and IPR. A meeting with OWD was held to get clarification on OWD demands, which is important to determining the opportunities available in South Bay.

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PA-6	6	1.2 Page 2	The SBWRP recycled supply resource is and will continue into the future used primarily by the Otay WD. The IBWC, Caltrans, and another customer currently use and are likely to continue to use a minimal amount of supply of recycled water produced at the SBWRP. The Otay WD has an extensive existing recycled water network and it will be expanded to new market areas as new development activities occur. The attached chart illustrates the Otay WD projected supply needs from the SBWRP in the peak summer month versus the current SBWRP recycled water supply production limits to Otay WD imposed by choice by the City of San Diego staff.	CN-Other TM	The project team desires to have an understanding of the OWD demands and seasonality of the demands. This will be weighed against other opportunities in the South Bay and the availability of wastewater to treat. TM4 and TM 5 will expand upon this topic. The study team has no conclusions at this point.
PA-7	7	1.2.2 page 3	The study does not list wholesale recycled customers as a stakeholder. The wholesale customers, such as Otay WD have contractual agreements with the City of San Diego that specify volumes to be purchased, and have invested millions of dollars in infrastructure based on these contracts, and therefore they are very much stakeholders in this process.	CN-Other TM	<p>The team places much significance on input from wholesale customers as it relates to their potential reuse demands. This input was solicited during the surveys distributed during the preparation of TM2. In Otay WD's specific case, such input has been updated based on follow-up information provided by Otay WD staff.</p> <p>Otay WD and the other PAs are viewed as stakeholders and have opportunity to comment on the TMs. Additional feedback can be provided via the Metropolitan Technical Advisory Committee (TAC) Chairperson, who attends the bi-monthly stakeholder update meetings. Bi-monthly meeting minutes have been and will continue to be transmitted to the Metropolitan TAC Chairperson for distribution to the PAs.</p>

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PA-8	8	1.2.2 Page 3	Provide a comprehensive list of the project stakeholders and please specifically include the Otay Water District and other wholesale recycled water customers of the City of San Diego therein.	CN	The list of project stakeholders will remain as is. Also refer to response to Comment PA-7.
PA-9	9	1.2.3 Page 4	For each of the previous studies listed provide a brief summary of the purpose, objectives, goals, results, recommendations, and resulting real world outcomes.	CN	The purpose of Section 1.2.3 is to state what related studies are taken into consideration in this project; we are coordinating our assumptions with these studies to ensure consistency. The purpose for listing them is <u>not</u> to recap the content of those studies. Most of the studies listed, such as the 2010 Urban Water Management Plan, are not yet complete and therefore have no published results, recommendations, or outcomes. Readers can refer to the completed studies if study-specific information is desired.
PA-10	10	1.2.3 page 4	Why isn't the City' Recycled Water Pricing Study listed as a related study? The price elasticity of recycled water will very much have an impact on recycled water demands from recycled customers. Another important related study is the Water Reuse Rates and Charges Survey Results by AWWA that should be used in this study.	CN	The Recycled Water Study Fact sheet has been revised to include the pricing study as one of the related studies. This will also be stated in future TMs.

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PA-11	11	2. Page 4	Please provide the purpose, objectives, goals, and desired outcomes of the Framework Planning Session. With the stakeholders not present at the Framework Planning Session how could the City of San Diego be assured that the key project issues, processes, etc. were developed that addresses the wholesale recycled water customers and the PA's concerns? Specifically name the people and who they represent that was at the Framework Planning Session.	CN	The work sessions are held between the consulting team, City staff and the NGO technical advisor, Dr. Bruce Bell. The purpose, agenda, attendees, etc. are all listed in the TM. The Status Update Meetings and the TMs provide full documentation on what occurred. The Status Update Meetings and the TMs are the mechanisms to obtain PA input and comment.
PA-12	12	2.2 Page 5	Within the appropriate Module please provide for the following items: <ul style="list-style-type: none"> List the project goals that were discussed List the project criteria that were discussed List each of the demand opportunities and their magnitudes List each of the wastewater collection and recycled water supply opportunities and their magnitudes Please include a cost to benefit component to the developed solutions	CN-Other TM	Regarding the goals and criteria, there is no additional discussion to add beyond what is already included in the TM summary, TM notes and presentation slides included in the TM appendices. The third and fourth bullets will be applicable to TM4 and 5. The Framework planning study presented "ballpark" totals for the team to develop an approach to developing a solution. TM4 and TM5 will have more detailed totals, opportunities and constraints, and costs.
PA-13	13	2.2 page 5	Two of the overarching goals are to maximize reuse and to offload Point Loma, to meet key thresholds (or "Sweet Spots") that provide large financial benefits to the City ratepayers. It is not fair to only consider the large financial benefits to only City ratepayers. The benefits should be examined in a regional aspect, and should address the issue of equity, accuracy and fairness to all who contribute and benefit from water reuse.	CN	Costs and benefits have not yet been determined. The team assumes that the PA participation process is being held to obtain input on regional issues and benefits and we try and incorporate and address feedback received. Any financial benefits realized to the Metropolitan Wastewater System will be realized by all of the PAs.

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PA-14	14	2.2 and 2.3 Page 6	There should have been a Module on South Bay WRP thresholds and add a discussion within the text to do so. There is a well documented need to have the magnitude of the tertiary level treatment capacity at the South Bay WRP increased well above its current capability just to serve the current and planned Otay WD landscape irrigation demands. This will increase recycled water market sales to Otay WD and others and decrease the cost of upgrading the Point Loma WTP to the secondary treatment level. Otay WD is currently expanding and designing in excess of 30,000 feet of recycled distribution pipeline which without a well defined plan for a reliable supply of recycled water at appropriate pricing levels for supply from the SBWRP may be the Otay WD will put off this recycled water market project and others as well. The potential irrigation demand is expected to be 10,000 acre foot per year and the non irrigation demand could be nearly 7,000 acre feet year totaling 17,000 acre feet year by the year 2035.	CN-Other TM	We agree South Bay needs to be assessed as part of the effort. This is being considered now as part of the development of system alternatives which will be introduced in TM5.

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PA-15	15	2.2 and 2.3 Page 6	<p>The SBWRP treatment throughput needs to be increased by:</p> <p>1) fully using the existing rated treatment capacity of 15 mgd to the maximum extent possible thus producing around 14 mgd of good quality low TDS recycled water in concert with the market for recycled water demand growth; and</p> <p>2) expansion of the SBWRP rated capacity above 15 mgd in the near future to a rated capacity to produce tertiary recycled water to say at least 30 mgd.</p> <p>The Otay WD demand for recycled water in the summer at build out is projected to be at least 18 mgd alone for irrigation demands which is based upon existing approved land use plans. The 18 mgd number does not include any supply for a potential electrical power generating plant or that of any other industrial or commercial application that will arise on Otay Mesa. Demands for recycled water for these types of non irrigation uses could easily exceed 6 mgd year round. These supply requirements should not be ignored for these have the greatest potential and near term magnitude for offloading flows from the Point Loma WTP. This will directly increase recycled use within the San Diego region.</p>	A-Other TM	<p>The Team will evaluate the expansion of the existing SBWRP in relation to both NPR and IPR opportunities in the South Bay area. TM4 and 5 support this effort. Obtaining more information on OWD demands (breakdown of demand types, confidence levels of certain connections, timing, and seasonality) will aid in evaluating this specific NPR option.</p>

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PA-16	16	2.3 Page 6	The Otay WD recycled water demand and supply requirements need to be fully understood. The non-potable reuse opportunities within the Otay WD appear to be relegated as not significant which is indeed not the case. IPR at the Otay Reservoir with limited recycled water supply available will only work in the winter months when recycled water demand for irrigation uses are at their lowest levels. Nearly all production from the SBWRP in the summer months or irrigation times of the year should be used to supply the recycled water customer's demands of the Otay WD. With the Otay WD as the only real customer of any magnitude of the recycled water produced at the SBWRP IPR is really not feasible in the South Bay area.	A-Other TM	We agree that the opportunity needs to be better understood (also see PA-15). The team views NPR expansion as an option as well as IPR. Neither has been screened out and we will look at both once we have developed more detailed analyses and obtained better information on OWD projections. In the facility planning session (FPS), OWD NPR uses were captured on the exercise sizing sheet as a 6 MGD opportunity, which we do not consider insignificant. We will refine the opportunity as part of TM5.
PA-17	17	2.3 page 6	Exercise Results do not mention expanding recycled production at the SBWRP. Currently the flows are not maximized to SBWRP. This is a very obvious low hanging fruit. It offloads Point Loma (the main goal of the study), increases use of recycled, and helps to meet the City's contractual agreement with Otay WD in meeting the future demands. Otay has met with the City Water Department and expressed this concern with them. Why is this not listed in this study?	CN-Other TM	The exercise was used to display the complexity of developing complex projects, factoring in regional issues, and weighing multiple constraints and opportunities. TM4 and TM5 will develop more detailed information and will address South Bay water reclamation plant in more detail.
PA-18	18	Potential Demand Figure	The Otay Mesa area within the Otay WD needs to be added. The figure appears to be incomplete.	CN-Other TM	TM4 and TM5 will look at these areas.
PA-19	19	Figure X-X	The City of San Diego wholesale recycled customer, the Otay Water District, is not even shown. Show existing wholesale recycled water customers.	CN-Other TM	TM4 and TM5 will look at these areas in more detail. Wholesale opportunities were captured on the exercise summary table that listed demand opportunities.

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PA-20	20	NPR Demands For Tributary Areas Table	The Otay WD recycled water demand is not correctly reflected. Total ultimate demand levels for recycled water from the SBWRP just for Otay WD is 10,000 acre feet per year. The numbers need to be redone as they are not correct.	CN-Other TM	The team will look at these numbers and request additional data from OWD (see PA-15). The results will be incorporated in TM5. We had approximately 9 MGD listed between existing and planned OWD demands on the exercise demand opportunity sheet, which roughly equates to the total proposed here.
PA-21	21	Estimated IPR Potential through RA Table	How can the SBWRP supply levels at 6.4 MGD to the Lower Otay Reservoir be correct if the recycled water demands of Otay are incorrectly reflected? The SBWRP will not be capable of meeting the Otay WD supply requests in the summer months to meet demands in a few years from now unless production is increased.	CN-Other TM	The team is looking at this more closely at South Bay as part of TM4 and TM5. Also see PA-15 and PA-20 responses.
PA-22	22	Figure 3	Please clarify that the flows are current (2009), projected to when, or what?	CN	The flows were 2035 projections at the time of the Framework Planning Session (FPS). TM4 will include updated numbers based on SANDAG Series 12 data.
PA-23	23	Figure 4	The Metro System Schematic does not reflect correctly the Jamacha Basin flow location. The wastewater that is not treated for recycled water reuse at the RWCWRF is transmitted via the Spring Valley Outfall.	CN-Other TM	Will correct in TM4
PA-24	24	General	Establish a pricing structure that is equitable across participating agencies and includes wholesale in addition to retail rates.	A-Other TM	Establishing a pricing structure is not within the scope of this study, but rather is a separate effort underway by the Public Utilities Department.
PA-25	25	General	Increase recycled water within the San Diego Region by increasing the delivery of collected wastewater to the South Bay WRP by diverting currently transported flows to the Point Loma WTP in an effort to decrease the magnitude of capacity that may need to be upgraded to secondary treatment in the future.	CN-Other TM	The team is looking at this more closely as part of TM4 and TM5.

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PA-26	26	General	Address the South Bay's needs to increase the recycled water supply to address all needs, including irrigation needs in the projected South Bay.	CN-Other TM	Opportunities will be addressed in TM5. Solutions will be developed through the work sessions and Status Updates Meetings.
PA-27	27	General	Collaborate with the Otay Water District and Sweetwater District to increase recycled water supply to the South Bay and reduce the reliance on imported treated water to supplement water supplies.	RFI	Detailed information about reuse within Sweetwater's service area is required in order to be considered in this study.
PA-28	28	General	Include the Otay Mesa area as part of the study area due to potential large-scale non-irrigation uses for planned industrial and commercial projects.	CN	To be discussed at our upcoming meeting with OWD.
PA-29	29	General	Ground water basins and potential for using recycled water to recharge the basins is not included as a potential use of recycled water and an additional supply of water. Provide analysis and discussion on ground water basins as an alternative.	CN-Other TM	Module 3 included preliminary evaluations of multiple groundwater basins. Additional effort will be included in TM5.
DG-1	30	Introduction, page 2, Section 1.2, second bullet	Suggest it should read "Maximizing potable and non-potable water reclamation to its fullest extent."	CN	The study plans to identify a plan which may or may not maximize both NPR and IPR. Therefore, it is too early to presuppose either course at this time. The objective is to maximize overall reuse to the fullest extent.
DG-2	31	Introduction, page 2, Section 1.2.1.	Suggest "Participating Agencies" be clarified with a Table listing the agencies	CN	A list of the PAs was included in TM#2 and will be provided in the final report.

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DG-3	32	Introduction, page 2, Section 1.2.2	Suggest this section include some statement about integration of the reclaimed water into the regional distribution system.	RFI	Need more information here. Please define what the regional distribution system is. If this is to incorporate PA plans that are outside the City boundary, we request detailed information on those systems/plans, and will incorporate them as best we can based on our scope of services.
DG-4	33		I would offer as a comment that I would like to see an option of producing IPR water at a much smaller size PLWWTP in the mix of options to be evaluated.	CN	IPR opportunities require either a groundwater basin or a reservoir to receive the advance treated water (AWT) water. There are also many constraints that govern the feasibility of the delivery of AWT to a particular receiving water body, including recycled water contribution (RWC), hydraulic retention time, capacities of existing facilities, etc. We must also consider the cost of conveying the AWT water to these locations. The locations of the potential reservoirs and groundwater basins are such that it is likely more cost effective to intercept the wastewater upstream (where it is close to the receiving water body), produce AWT water, and delivery to the receiving water body. This would reduce the capital and energy cost associated with the distribution system and the delivery of the water.
BB-1	35	page 7, Section 2.5	Coarse screening workshop is shown to be on August 3 and 4. Please change to reflect 2nd and 3rd.	A-Other TM	This was revised and was presented at the SUM5 meeting. It is documented in those notes and all future schedules will show this date.

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AB-1	36	Page 7, section 2.5	Outline what will be done prior to the coarse screening workshop, (i.e. draft TM4 and 5)	A-Other TM	The team is developing much more detailed constraints for the IPR options. The FPS had two major constraints. The SUM5 meeting presented the expansion of these using San Vicente as an example. This effort is currently being expanded to South Bay, Hodges, and groundwater basins. In parallel, NPR options are being further analyzed and developed. The Cost of Service Study will bring these elements together to develop a slate of proposed projects based on costs and benefits.

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