



METRO TAC AGENDA
(Technical Advisory Committee to Metro JPA)

TO: Metro TAC Representatives and Metro Commissioners

DATE: Wednesday, April 16, 2014

TIME: 11:00 p.m. to 1:30 p.m.

"THE METRO TAC MAY TAKE A BRIEF RECESS AT 12:30 p.m."

LOCATION: MWWD, 9192 Topaz Way, (MOC II Auditorium) – Lunch will be provided

****PLEASE DISTRIBUTE THIS NOTICE TO METRO COMMISSIONERS AND METRO TAC REPRESENTATIVES****

1. Review and Approve MetroTAC Action Minutes for the Meeting of [March 19, 2014](#) (**Attachment**)
2. Metro Commission/JPA Board Meeting Recap (Standing Item)
3. **PRESENTATION** – San Diego Kelp Forest Ecosystem Monitoring Project – Agreement with Scripps Institution of Oceanography (**Attachment**) (Tim Stebbins)
4. **ACTION:** Consideration and possible action to recommend approval of Pt. Loma Digesters Roof System Replacement and Repairs Project (**Attachment**) (Tung Phung)
5. **ACTION:** Pump Station 2 Force Main Siphon and West Point Loma Interceptor Sewer Liner Repairs (**Attachment**) (Tung Phung)
6. **ACTION:** Consideration and possible action to recommend approval of South Bay Water Reclamation Plant – Demineralization Project (**Attachment**) (Guann Hwang/Iraj Asgharzadeh)
7. **ACTION:** Salt Creek Diversion BCE (**Attachment**) (Edgar Patino/Guann Hwang)
8. Metro Wastewater Update (Standing Item)
9. **ACTION:** Consideration and Possible Action to Approve the FY 2014-2015 Atkins Contract (**Attachment**)
10. **ACTION:** Consideration and Possible Action to Approve Amendment to the FY 2014-2015 Treasurers Contract (**Attachment**)
11. **ACTION:** Consideration and Possible Action to Approve Amendment to the FY 2014-2015 Webmaster Contract (**Attachment**)
12. **ACTION:** Consideration and Possible Action to Approve the FY 2014-2015 Metro Wastewater JPA Budget (**Attachment forthcoming**)
13. Metro Capital Improvement Program and Funding Sources (Standing Item) (Guann Hwang)
14. MetroTAC Work Plan (Standing Item) (**Attachment**)

15. **DISCUSSION** of PA's Rolling of the Metro System (**Attachment**) (Greg Humora)
16. Financial Update (Standing Item) (Karyn Keese)
17. Point Loma Permit Renewal (Standing Item) (**Attachment**)
18. Review of Items to be Brought Forward to the next Metro Commission/Metro JPA Meeting (**May 1, 2014**)
19. Other Business of Metro TAC
20. Adjournment ([To the next Regular Meeting, May 21, 2014](#))

<u>Metro TAC 2014 Meeting Schedule</u>		
January 15	May 21	September 17
February 19	June 18	October 15
March 19	July 16	November 19
April 16	August 20	December 17

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February 19	June 18	October 15
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Metro TAC
(Technical Advisory Committee to Metro Commission/JPA)

ACTION MINUTES

DATE OF MEETING: March 19, 2014
TIME: 11:00 AM
LOCATION: MWWD, MOC II Auditorium

MEETING ATTENDANCE:

Greg Humora, La Mesa
Al Lau, Padre Dam MWD
Dennis Davies, El Cajon
Roberto Yano, Chula Vista
Ed Walton, Coronado
Dan Brogadir, County of San Diego
Eric Minicilli, Del Mar
Chris Helmer, Imperial Beach
Rita Bell, Otay WD
Stephen Beppler, Otay WD
Leah Browder, Poway

Tom Howard, Poway
Guann Hwang, City of San Diego
Peggy Merino, City of San Diego
Edgar Patino, City of San Diego
Tung Phung, City of San Diego
Mark Nassar, City of San Diego
Brian Vitelle, City of San Diego
Jeanne Cole, City of San Diego
Amy Dorman, City of San Diego
Karyn Keese, Atkins

1. Review and Approve MetroTAC Action Minutes for the Meeting of February 19, 2014

Tom Howard moved approval of the February 19, 2014 minutes. The motion was seconded by Robert Yano and the minutes were approved unanimously.

2. Metro Commission/JPA Board Meeting Recap (Standing Item)

- Laura Bonich of NV5 gave her presentation on the potential effects of water conservation on IPR and recycled water.
- Chairman Humora gave a summary of the meetings held over the last month with City staff and the environmental community. Leah Browder presented a draft outreach plan for the County Water Authority. Scott Tulloch summarized continued meetings with Imperial Beach to address their concerns over the expansion of the South Bay WRP.
- The Commission discussed the South Bay demineralization project and after many questions referred it back to Metro TAC for additional review.
- The Commission approved both of Lori Peoples' contracts.
- The Commission approved a \$1,000 sponsorship for the Water Reliability Coalition. Chair Cox and Commissioner Peasley will attend and represent the JPA.
- The Commission received a report by Karyn Keese on the mid-year JPA financials
- Paula de Sousa gave an update on the SDG&E CPUC filing for modification to peak hours and passed out a sample letter for each agency to send protesting the filing.

3. ACTION: Consideration and possible action to recommend approval of South Bay Water Reclamation Plant – Demineralization Project

The South Bay Water Reclamation Plant is experiencing increased chloride levels that require corrective action. Currently there are two trailer mounted EDR units that are not needed at the North City Water Reclamation Plant. This project would move the two trailer mounted EDR's to the South Bay Plant and permanently install them to provide for the additional treatment necessary to stay within permit limits for recycled water production. Although Metro TAC had

approved this project last month, the Metro Commission wanted answers to additional questions. Staff answered the questions in their presentation (Attachment A to these minutes). Chairman Humora tabled this item until next month and asked staff to bring back the following items for Metro TAC review:

- A copy of the business case evaluation for the demin project
- A summary report of chloride sources from existing data
- A summary report of CIPs that could affect the chloride including the planned pipeline and manhole repairs
- A summary of sampling data from Salt Creek to see if dilution would help the chloride levels
- A full detail of what is in the Miscellaneous Costs category.

4. ACTION – Consideration and Possible Action to Recommend Approval of Pt. Loma Digesters Roof System Replacement and Repairs Project

Tung Phung reviewed the project for Metro TAC. Metro TAC expressed concern that the City was not getting more bidders on their projects. Staff replied that many of the projects are very specialized and only a few companies have the qualifications to perform them. Chairman Humora tabled this item and asked staff to revise their staff report and include more information on the project and bring back next month..

5. Review of Padre Dam/North City Adjustment

Edgar Patino provided Metro TAC with a "Master Summary Reconciliation" spreadsheet that is included with these minutes as Attachment B. The spreadsheet summarizes the status of all potential audit adjustments by type and by fiscal year for each PA back to FY 1998 which was the beginning of strength based billing per the Regional Disposal Agreement. The three outstanding due to/due from categories for each year's audit's are:

- Padre Dam Adjustment – the Padre Dam adjustment is essentially a change in each PAs billing amount due to a double charge for Padre Dam's sludge by the City of San Diego. San Diego was notified by Padre Dam in November of 2010 of this double charge. All audit reconciliations have been held up by this issue since FY 2009 due to settlement agreements between the City of San Diego, Padre Dam, and the PA attorney group.
- North City Adjustment – the North City adjustment stems from a discovery by Brown & Caldwell during a review of the strength based billing system that San Diego had not been including the recycled water flow from the North City Water Reclamation Plant in their flow count for billing purposes. In addition, there were adjustments for Poway's and Del Mar's flows that were not made that affected the total system flow.
- True-up – the true-up adjustment is required by the Regional Disposal Agreement. All PAs are billed on budget estimates and once the Exhibit E audit is performed at the end of each fiscal year each PA is billed on actual Metro expenses and their actual flows and loads. This is termed "true-up". Each PA either receives a check from San Diego if they are owed money or a bill if they owe San Diego for their proportionate share of that fiscal year.

Edgar discussed that once there is an agreement on how many years to go back the spreadsheet will be finalized to include interest to the date of settlement.

6. SDG&E CPUC Filing Regarding Modifications to Peak Hours

Greg Humora reviewed the letter that was attached to the agenda and prepared by Paula de Sousa. Leah Browder encouraged everyone to send this letter as the proposed changes will have significant financial effects on the PAs, especially those with pump stations.

7. Metro Wastewater Update (Standing Item)

There were no additional items from PUD staff.

8. Metro Capital Improvement Program and Funding Sources (Standing Item)

- PUD staff presented the 2nd Quarter Report on Metro CIP. Cumulative expenditures as of Period 6 were \$8.3 million which is below forecasts.
- PUD staff will be presenting next year's CIP at the April Metro TAC meeting.

9. PRESENTATION -Salt Creek Diversion Business Case Evaluation

Guann Hwang reviewed the findings of the business case evaluation(BCE) for diverting wastewater flow from the City of Chula Vista to the South Bay Water Reclamation Facility for treatment and potentially recycled water production. Guann stated that PUD staff was not recommending that the project move forward at this time, but that the City of San Diego wanted the JPA's input before making a final decision. It is estimated that 2 mgd of flow would be diverted during the period of 2014 to 2019. Key factors to consider are that this diversion is seasonal and only occurs during the summer to provide additional recycled water to South Bay customers. In addition, it is more costly to treat sewage at South Bay than at Point Loma. Regional benefits include that it will offload flow to Point Loma at least seasonally and increase recycled water production. Because of the additional expense to the region PUD staff is not recommending the project at this time. There was much discussion between PUD staff and Otay regarding whether there is currently enough recycled water production at South Bay to meet Otay's take or pay contract because they cannot peak during the summer months. In addition they have potential new users that would like recycled water (prison, resort, etc.) but unless they have a guaranteed supply to meet new projects needs they do not want to further invest in the required infrastructure to provide those projects with recycled water. Otay was asked to work with PUD staff to clean up some concerns between them. They were also asked to provide a system distribution analysis showing projections for their potential recycled water use and at what point the current production of recycled water will not meet their needs.

10. MetroTAC Work Plan

The work plan will include the "Point Loma Permit/Potable Reuse Key Milestone Dates" in the future to keep all members up to date on the status of the AdHoc Committee's actions.

11. Financial Update

Karyn Keese reviewed the Mid-Year JPA financials. At mid-year the JPA budget, on a straight-line basis, is running \$18,635 over budget. This is essentially due to Atkins and BBK's costs. The mid-year financials do not include the new web construction contract with Vision because they had not submitted a bill. The web construction contract is \$24,000. The JPA's fund balance at 12/31/13 was \$133,859 which is \$57,654 over the required operations reserve.

12. Point Loma Permit Renewal

Chairman Humora reported on the positive progress over the last month in working with PUD staff and the environmental community. The AdHoc and PUD staff has started meeting on preliminary cost allocation structures for the Program. Once the cost allocation structures are determined costs and cost allocations will be associated with them. PUD staff had a positive meeting with EPA regarding including the 20-year Pure Water Program plan and legislative change in the waiver document.

13. Review of Items to be Brought Forward to the next Metro Commission/Metro JPA Meeting (April 3, 2014)

There are no items to be brought forward from this meeting to the Metro Commission/Metro JPA. There will most likely not be a Commission/JPA meeting in April.

14. Other Business of Metro TAC

There was no additional business of Metro TAC.

15. Adjournment (To the next Regular Meeting, April 16, 2014)

ATTACHMENT A

City of San Diego Master Summary Reconciliation Adjustment By Type and Fiscal Year									
Agency	FY 2012 ⁽⁵⁾		FY 2011 ⁽⁵⁾		FY 2010 ⁽⁴⁾				
	Padre Dam	North City	Padre Dam	North City	Padre Dam	North City	True-up	True-up	True-up
City of Chula Vista	N/A	(\$1,019)	N/A	(\$226,270)	\$125,590	(\$222,101)	(\$281,351)	(\$404,450)	
City of Coronado	N/A	(\$6,270)	N/A	(\$19,011)	\$8,841	(\$19,335)	(\$588,960)	(\$682,313)	
City of Del Mar	N/A	(\$2,505)	N/A	(\$7,826)	\$4,794	(\$7,949)	(\$163,263)	(\$86,926)	
East Otay Mesa ⁽²⁾	N/A	(\$105)	N/A	(\$188)	\$18	(\$265)	(\$47,753)	(\$19,241)	
City of El Cajon	N/A	(\$27,520)	N/A	(\$91,971)	\$43,842	(\$89,435)	(\$1,319,510)	(\$1,042,436)	
City of Imperial Beach	N/A	(\$8,683)	N/A	(\$28,705)	\$15,798	(\$29,136)	(\$90,851)	\$143,512	
City of La Mesa	N/A	(\$17,194)	N/A	(\$60,540)	\$29,736	(\$58,642)	(\$312,097)	(\$94,712)	
Lakeside/Alpine	N/A	(\$12,573)	N/A	(\$38,673)	\$18,333	(\$36,116)	(\$140,667)	(\$229,729)	
City of Lemon Grove	N/A	(\$8,320)	N/A	(\$27,378)	\$13,215	(\$26,590)	(\$159,340)	(\$19,248)	
The City of National City	N/A	(\$17,407)	N/A	(\$58,327)	\$31,149	(\$57,757)	(\$220,471)	(\$343,551)	
Otay Water District	N/A	(\$4,122)	N/A	(\$11,652)	\$11,917	(\$11,920)	(\$143,460)	(\$31,126)	
Padre Dam Water District ⁽³⁾									
City of Poway	N/A	(\$10,342)	N/A	(\$36,290)	(\$1,245,221)	(\$35,720)	(\$880,708)	(\$2,147,030)	
Spring Valley	N/A	(\$12,253)	N/A	(\$41,015)	\$21,516	(\$39,816)	(\$244,199)	\$184,408	
Wintergardens	N/A	(\$29,917)	N/A	(\$93,961)	\$46,427	(\$85,727)	\$262,339	\$815,761	
City of San Diego	N/A	(\$3,428)	N/A	(\$10,943)	\$4,918	(\$10,459)	(\$38,485)	\$36,056	
Total	\$0	(\$2)	\$0	\$1	\$1	\$1	(\$1)	\$3,921,022	(\$2)

Negative Number = Refund/Credit
Positive Number = Owe/Debit

Notes

- ⁽¹⁾ FY 1998 - Inception of Strength-based billing
⁽²⁾ No billable flow until FY 2009
⁽³⁾ City notified November 2010 (FY 2011)
⁽⁴⁾ FY 2009 & 2010 End of Year Reconciliation Audited (True-Up)
⁽⁵⁾ FY 2011, FY 2012 Audit is Completed not yet Final/Accepted (True-Up)

City of San Diego Master Summary Reconciliation Adjustment By Type and Fiscal Year										
FY 2009 ⁽⁴⁾			FY 2008		FY 2007		FY 2006		FY 2005	
Padre Dam	North City	True-up	Padre Dam	North City	Padre Dam	North City	Padre Dam	North City	Padre Dam	North City
\$109,106	(\$62,217)	\$474,713	\$102,100	(\$75,585)	\$116,698	(\$60,441)	\$87,312	\$35,403	\$93,442	\$110,743
\$8,895	(\$6,080)	(\$275,582)	\$8,661	(\$7,767)	\$11,504	(\$6,948)	\$8,141	\$4,031	\$9,356	\$13,444
\$4,438	(\$2,247)	(\$36,646)	\$4,241	(\$2,881)	\$4,889	(\$2,381)	\$4,277	\$1,531	\$4,200	\$4,702
\$2	(\$15)	(\$1,132)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$39,679	(\$25,630)	(\$404,988)	\$45,914	(\$37,135)	\$48,441	(\$27,782)	\$38,293	\$16,443	\$40,954	\$52,955
\$14,051	(\$8,080)	\$257,573	\$12,033	(\$9,237)	\$13,277	(\$7,292)	\$11,395	\$4,780	\$11,453	\$14,321
\$26,698	(\$16,907)	\$172,044	\$26,209	(\$21,343)	\$28,484	(\$16,372)	\$22,226	\$9,803	\$23,184	\$30,872
\$16,657	(\$10,356)	\$37,178	\$16,174	(\$12,904)	\$17,959	(\$10,132)	\$15,185	\$6,465	\$15,509	\$19,526
\$11,938	(\$7,419)	\$73,470	\$10,786	(\$8,854)	\$12,915	(\$7,264)	\$9,828	\$4,302	\$10,751	\$14,154
\$24,643	(\$14,827)	(\$462,072)	\$24,962	(\$19,552)	\$31,131	(\$16,673)	\$28,219	\$11,451	\$27,946	\$33,636
\$8,621	(\$3,182)	(\$187,279)	\$10,448	(\$4,021)	\$11,307	(\$3,258)	\$9,749	\$2,152	\$9,126	\$6,714
(\$1,080,393)	(\$10,272)	(\$1,526,464)	(\$1,023,308)	(\$15,744)	(\$1,167,525)	(\$11,922)	(\$960,678)	\$6,917	(\$1,080,016)	\$24,821
\$19,752	(\$11,839)	\$536,352	\$17,216	(\$13,864)	\$17,141	(\$10,071)	\$13,962	\$6,305	\$16,533	\$22,230
\$41,120	(\$23,582)	\$1,010,481	\$29,962	(\$24,596)	\$33,605	(\$20,071)	\$28,109	\$12,448	\$32,598	\$42,348
\$4,402	(\$2,987)	\$94,654	\$3,950	(\$3,432)	\$4,202	(\$2,662)	\$3,449	\$1,619	\$3,690	\$5,258
\$750,388	\$205,644	\$237,693	\$711,154	\$256,919	\$815,970	\$203,267	\$680,532	(\$123,651)	\$781,274	(\$395,719)
(\$3)	\$4	(\$5)	\$2	\$4	(\$2)	(\$2)	(\$1)	(\$1)	\$0	\$5

City of San Diego
Master Summary Reconciliation
Adjustment By Type and Fiscal Year

FY 2004		FY 2003		FY 2002		FY 2001		FY 2000		FY 1999		FY 1998	
Padre Dam	North City	Padre Dam	North City	Padre Dam	North City	Padre Dam	North City	Padre Dam	North City	Padre Dam	North City	Padre Dam	North City
\$94,998	\$9,797	\$111,074	\$123,732	\$79,738	\$237,272	\$58,184	\$192,408	\$38,286	\$176,132	\$56,012	N/A	\$16,120	N/A
\$9,736	\$1,342	\$11,001	\$15,068	\$8,685	\$30,528	\$6,998	\$27,234	\$4,651	\$25,091	\$10,291	N/A	\$3,116	N/A
\$4,546	\$424	\$5,304	\$5,485	\$4,334	\$11,715	\$3,311	\$9,613	\$2,050	\$8,710	\$3,706	N/A	\$1,224	N/A
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	N/A	\$0	N/A
\$41,222	\$4,833	\$48,878	\$59,260	\$42,410	\$127,084	\$33,543	\$109,433	\$23,696	\$105,384	\$44,026	N/A	\$12,425	N/A
\$12,567	\$1,401	\$13,675	\$16,018	\$10,913	\$32,810	\$8,175	\$26,914	\$5,559	\$26,140	\$11,967	N/A	\$3,395	N/A
\$23,629	\$2,891	\$27,412	\$34,319	\$20,917	\$68,160	\$15,234	\$55,122	\$10,974	\$56,120	\$22,938	N/A	\$7,615	N/A
\$16,548	\$1,850	\$18,764	\$21,846	\$15,875	\$47,759	\$12,620	\$40,014	\$8,878	\$39,839	\$16,699	N/A	\$4,984	N/A
\$11,884	\$1,437	\$12,762	\$15,841	\$10,899	\$34,177	\$8,308	\$30,109	\$5,723	\$28,819	\$10,273	N/A	\$2,841	N/A
\$29,415	\$3,106	\$33,207	\$37,590	\$27,425	\$80,848	\$20,551	\$66,603	\$14,046	\$62,517	\$27,531	N/A	\$5,854	N/A
\$10,212	\$317	\$11,256	\$7,107	\$8,774	\$14,696	\$6,701	\$12,473	\$3,506	\$10,706	\$6,464	N/A	\$1,083	N/A
(\$1,104,835)	\$2,055	(\$1,292,525)	\$27,686	(\$1,035,662)	\$57,559	(\$800,304)	\$46,396	(\$549,240)	\$42,354	(\$504,706)	N/A	(\$251,843)	N/A
\$17,763	\$2,197	\$19,858	\$24,895	\$16,117	\$52,853	\$12,146	\$43,125	\$8,407	\$41,614	\$16,800	N/A	\$5,130	N/A
\$31,196	\$72,597	\$39,047	\$47,307	\$29,489	\$90,436	\$20,971	\$70,465	\$16,201	\$73,172	\$71,913	N/A	\$12,019	N/A
\$3,920	\$527	\$4,437	\$5,892	\$3,629	\$12,467	\$2,627	\$9,811	\$1,896	\$9,822	\$4,773	N/A	\$1,157	N/A
\$797,196	(\$104,775)	\$935,853	(\$442,048)	\$756,454	(\$898,361)	\$590,938	(\$739,723)	\$405,364	(\$706,415)	\$201,313	N/A	\$174,880	N/A
(\$3)	(\$1)	\$3	(\$2)	(\$3)	\$3	\$3	(\$3)	(\$3)	\$5	\$0	\$0	\$0	\$0

ATTACHMENT B

Public Utilities Department BCE Project Abstract

Title	Salt Creek Interceptor Flow Diversion								
Proponent	Pete Wong/Vien Hong								
Division	Engineering and Program Management								
Sponsor/Deputy Director	Guann Hwang								
Submission Date	2/25/2014								
Issue/Problem to be Addressed									
<p>Issue: This BCE is to evaluate the cost and benefit of diverting wastewater flow from City of Chula Vista 42-inch Salt Creek Interceptor (SCI) to South Bay Water Reclamation Plant (SBWRP) for treatment. Currently, the wastewater flow in SCI is flowing to Point Loma Wastewater Treatment Plant (PLWTP) for treatment via South Metro Interceptor (SMI), Pump Station 1 and 2 (PS 1 and PS 2). The proposed diversion structure is located in City of Chula Vista at the intersection of Palm Avenue and Otay Valley Rd. Otay Water District (OWD) has been requesting additional recycled water to meet their peak demand.</p> <p>Flow Diversion Duration: The proposed flow diversion will cover over a 17 years period (2014-2030). The duration of the proposed flow diversion is defined based on the timing of 21-mgd South Bay Wastewater Treatment Plant (SBWTP). SBWTP and associated solid process facility, pump station and conveyance system are proposed in the 2012 Metropolitan Wastewater Plan to be online by 2030. The purpose is to offload PLWTP by rerouting the flow from SMI to SBWTP for treatment, which will be located adjacent to the existing SBWRP. Note that a 31-mgd SBWTP is proposed for installation in 2027 in the draft Pure Water Facility Plan. For the purpose of this analysis, the timeline in the 2012 Metropolitan Wastewater Plan is used.</p> <p>Flow Diversion Amount: Currently, the measured flow at SCI and SMI connection has an average of 3.5 mgd and it is projected to increase up to 6.5 mgd by the 2030. The proposed diversion structure is located at the upstream stretch of the SCI, which constitutes an average of approximately 3 mgd (existing) up to 6 mgd (year 2030). At the downstream side of the diversion structure, the Main St. Trunk Sewer (owned by City of Chula Vista) drains approximately 0.5 mgd to SCI, and the segments of SCI between Main St. Trunk Sewer and the diversion structure requires approximately 0.9 mgd (based on the minimum slope of the segment) to maintain the cleansing velocity. These flows are excluded from the proposed flow for diversion. The potential diverted flow is divided into three period as follows (See Exhibit 1):</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Period</th><th style="text-align: center;">Diverted Flow</th></tr> </thead> <tbody> <tr> <td style="text-align: center;">2014-2019</td><td style="text-align: center;">2 mgd</td></tr> <tr> <td style="text-align: center;">2020-2024</td><td style="text-align: center;">3 mgd</td></tr> <tr> <td style="text-align: center;">2025-2030</td><td style="text-align: center;">4 mgd</td></tr> </tbody> </table>		Period	Diverted Flow	2014-2019	2 mgd	2020-2024	3 mgd	2025-2030	4 mgd
Period	Diverted Flow								
2014-2019	2 mgd								
2020-2024	3 mgd								
2025-2030	4 mgd								

Known Alternatives

Alternative 1 “Do Nothing”– This alternative is the existing condition where SCI flows to PLWTP for treatment. No capital cost incurs in this alternative, only the current O&M cost.

Alternative 2 “Divert 2-4 mgd from SCI to SBWRP” – This alternative requires capital and O&M costs for the duration of the diversion.

Key Factors to Consider

- Diversion is seasonal and only occurs during the summer to provide additional reclaimed water to customer.
- Additional capital and O&M costs may need to be borne by the JPA if flow diverted to SBWRP.
- Additional cost of sending the sludge to PLWTP for retreatment was not included in this BCE estimate.
- The ownership, O&M responsibility, liability of sewer overflow, and construction of the diversion structure should be determined before the construction.
- The City receives CWA incentive for the remainder of the total recycled water produced after selling to OWD. This cost, relatively minimal, is not included in this BCE estimate.
- Besides Metro facility costs, the additional Muni conveyance facility cost will incur, since the diverted flow will convey through Otay Valley Trunk Sewer (Muni facility). This cost is not included in this BCE estimate.
- Future Demineralization Facility power and maintenance costs are not available at this time and are not included in this BCE estimate.
- Diverted flow may possibly contribute an increased chloride and manganese level in production water. Currently, high level of chloride was experienced at SBWRP and notice of violation had been issued by RWQCB. The planned relocation of the EDR units from NCWRP to SBWRP will help to reduce these increases. More water quality sampling is recommended for the SCI flows.

Other Considerations

- As regional benefit:
 1. Offload PLWTP flow (but not solids)
 2. Maximize reclaimed water use

Comments

Of the know alternatives, it is recommended that the Alternative 1 “Do Nothing” should be selected. This alternative is a more cost effective solution and in the best interest of both City and JPA. Alternative 2 requires JPA bears the additional costs and liability. The cost of approximately \$9.4M will be shared among the Metro agencies over 17 years. If Alternative 2 is pursued then the following will need to be determined:

1. Cost allocation among San Diego (Muni and Metro) and the Participating Agencies.
2. O&M responsibility and liability of failure for the diversion structure throughout its lifecycle.
3. Continue operation of the diversion structure after SBWTP and associated conveyance system are online.

Cost Estimates**Attachments: Y/N**

Alternative 1 "Do Nothing" (existing condition) NPV cost is \$7,807,389 (See Attached).

Alternative #1 - Year One Expenditure

Facility	Total Cost	Flows (MG)	Unit Cost per MG	2 MGD
PS 1	\$1,437,510	19,418	\$74	\$54,042
PS 2	\$6,216,671	53,186	\$117	\$85,326
PLWWTP	\$16,490,078	53,453	\$308	\$225,201
Capital Cost	\$0	-	-	\$0
Revenue (RW Sale)	\$0	-	-	\$0
Grand Total Cost (1st year)	-	-	-	(\$364,569)

Note:

- 1) The expenditure of each facility is based on the FY 2013 dollar
- 2) MBC cost for PLWTP sludge was not included in the analysis

Alternative 2 "Divert 2-4 mgd from SCI to SBWRP" NPV cost is \$17,167,358 (See Attached). This NPV cost included entire SBWRP O&M cost (influent to tertiary process) and revenue from the sale of reclaimed water produced and delivery.

In 2008, City of San Diego, Public Utilities Department issued to Brown and Caldwell a task order to perform design of a sewer diversion structure which included electrical and mechanical control for SCI at Otay Valley and Palm Avenue. The design was completed and provided to City of Chula Vista for the purpose of solicit construction bids in 2010. The construction bid resulted in the estimated cost of approximately \$800,000. The cost is escalated based on ENR CCI to 2013 dollars, which is approximately \$860,000.

Alternative #2 - Year One Expenditure

Facility	Total Cost	Flows (MG)	Cost per MG	2 MGD
ORPS	\$205,551	1,972	\$104	\$76,075
GAPS	\$463,009	2,929	\$158	\$115,416
SBWRP	\$4,473,043	2,938	\$1,522	\$1,111,239
Capital Cost	\$860,000	-	-	\$860,000
Revenue (RW Sale)	\$701,851	635	1074	\$701,851
Grand Total Cost (1st year)	-	-	-	(\$1,460,879)

Note:

- 1) The expenditure of each facility is based on the FY 2013 dollar
- 2) Revenue is based OWD agreement (expire 2027) of sale price (\$350/acr-ft) and meter charge (\$1,646/month)
- 3) Revenue is based on Recycled Water Produced (13% loss of treatment of 2 mgd)
- 4) Second year expenditure and beyond will decrease due to no capital expenditure

NPV Calculation Assumptions:

- Project construction start in 2014
- Escalation/Inflation Rate = 3%

- Discount Rate = 5%
- Period = 17 years (2014-2030)
- Revenue (constant) = \$350 per acre-ft (usage) plus \$1,646 per month (meter charge)
- Diverted flow was based on the availability of SCI

The NPV breakdowns are divided into three period as follows:

Period	Flow (mgd)	Alternative 1	Alternative 2	Variance
2014-2019	2	\$2,085,859	\$4,572,859	(\$2,486,999)
2020-2024	3	\$2,345,226	\$4,842,383	(\$2,497,158)
2025-2030	4	\$3,376,304	\$7,752,116	(\$4,359,968)
NPV Total	-	\$7,807,389	\$17,167,358	(\$9,359,968)

As shown above, the cost-benefit analyses as well as the NPV calculations provide sufficient evidence as to why implementing alternative 2 is not beneficial. The cost-benefit analysis shows a loss as well as the NPV is negative even revenue and PL WTP avoided costs considered. However, if this alternative is pursued, costs, reliability and O&M responsibility need to be determined.

Accounting (For Administrative use)

Funding: O&M _____ or CIP _____ CIP# _____ **Funding Year:** _____

Financing Plan Review: 10YR/RC **Version Date:** ____/____/____

Fund No.	Cost Center No.	G/L Acct. No.	WBS No.	Internal Order No.
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Analyst Review: _____ **Date:** ____/____/____

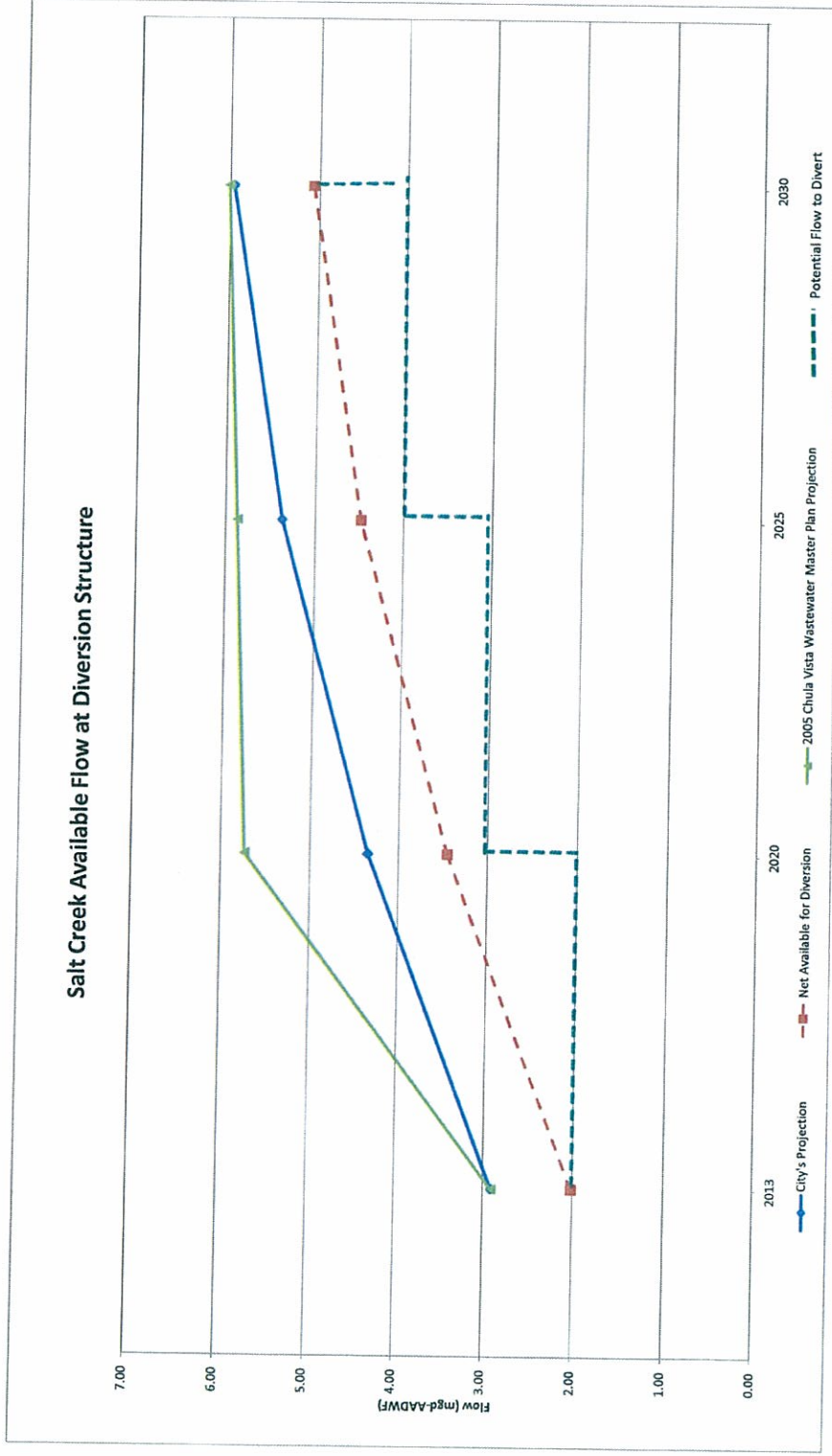
Approval/Signatures

Role	Name	Signature	Date
Sponsor Deputy Director	Guann Hwang		
Sponsor Assistant Director	Ann Sasaki		
USET Approval (Sponsor Assistant Director)			
Department Director	Halla Razak		

Tracking (For Administrative use)

BCE No.	Asset No. (Auditor's Use)	Completion Date	Final Cost	Asset Mgr Review

DRAFT



DRAFT

From Summary Sheet:										Public Utilities Department Water & Sewer Division Life Cycle Cost Analysis Divent 2-4 mgd Flow to SSWRP (Ordinary Costs-Revenue)									
Risk adjustments (+/- percent):																			
Capital cost																			
Annual Risk cost																			
Discount rate																			
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2041
860,000																			
Expressed in 2014 dollars, unweighted																			
Capital Outlays																			
Benefit 1 - Revenue	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876
Benefit 2																			
Total benefits	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876
Annual Running Costs																			
GAIA (Treatment & Conveyance)	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750
Chemicals																			
Unexpended monitoring																			
Unexpended events																			
Other																			
Total running costs	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750
R&M Costs																			
Site maintenance																			
Other																			
Total refurbishments																			
Net Benefit	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)
Expressed in escalated dollars with sensitivity adjustments																			
Capital Outlays	860,000																		
Benefit 1 - Revenue	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876
Benefit 2																			
Total benefits	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876	701,876
Annual Running Costs																			
GAIA (Treatment & Conveyance)	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750
Chemicals																			
Unexpended monitoring																			
Unexpended events																			
Other																			
Total running costs	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750	1,302,750
R&M Costs																			
Site maintenance																			
Other																			
Total refurbishments																			
Net Benefit	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)	(1,480,844)
Life cycle cost analysis																			
PV of 2014	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844	1,480,844
NPV as of 2014	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)	(17,747,335)

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**METRO JPA/TAC
Staff Report
Date: April 16, 2014**

Project Title: San Diego Kelp Forest Ecosystem Monitoring Project (2014-2019)

Requested Action: Recommendation from Metro TAC to endorse project and forward to Metro Commission for approval.

Recommendations:

Metro TAC:	Present to JPA for approval of Project
IROC:	Present to IROC as an informational item. Funds for this long-standing agreement are budgeted in the Annual Budget within the Metro Operating Fund and do not require IROC review.
Prior Actions: (Committee/Commission, Date, Result)	

Fiscal Impact:

Is this projected budgeted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cost breakdown between Metro & Muni:	100% Metro
Fiscal impact to the Metro JPA:	33% (~\$887,519)

Capital Improvement Program:

New Project?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Existing Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Upgrade/addition <input type="checkbox"/> Change <input type="checkbox"/>

Previous TAC/JPA Action:

Previous TAC/JPA Action: Previous 4-year projects for 2006-2010 and 2010-2014 presented to Metro TAC and Metro JPA in 2010 and 2014, respectively.

Additional/Future Action:

City Council Action: Tentatively scheduled for Environment Committee on 5/21/14 and Council on 6/10/14

Background: *Provide background information on the need for the project*

This agreement allows for continued monitoring of the San Diego region's kelp forests and provides important information relevant to the City's 301(h) modified permit for the Pt Loma Wastewater Treatment Plant.

Discussion: *Provide information on decisions made to advance the project*

This program has been ongoing as 4-year agreements for the past 12 years, as well as additional work from 1992 through 2002. The project serves as a critical link between the City's core monitoring efforts focused in offshore waters and requirements for more near shore habitats associated with the Marine Life Protection Act and other needs.

Bid Results: *If bidding was done provide bidding format and results*
N/A



Presentation to Metro TAC

San Diego Kelp Forest Ecosystem Monitoring Project (2014-2019)

Timothy D. Stebbins, Ph.D.
Sr. Marine Biologist / Ocean Monitoring Program Director

April 16, 2014



City of San Diego Ocean Monitoring Program

- ❖ City's OMP = one of largest, most comprehensive programs of its kind.
 - Pt Loma and South Bay outfall regions
 - Sampling at ~190 sites (>200 days/yr)
 - Total area ~340 mi²
- ❖ OMP designed to monitor status of San Diego's coastal waters, assess effects of wastewater discharge, and address several basic questions.
 - Is it safe to swim?
 - Are the fish safe to eat?
 - Is the marine ecosystem healthy?





Program Components

- ❖ Core Monitoring
 - Water quality (shore, kelp beds, offshore)
 - Sediment quality & benthic infaunal communities
 - Bottom dwelling fish and invertebrate communities
 - Bioaccumulation in fishes
- ❖ Regional Monitoring
 - Southern California Bight Regional Monitoring Program
 - Region 9 Aerial Kelp Survey Program
- ❖ Special Studies & Enhanced Monitoring
 - *Evaluation of Anthropogenic Impacts on the San Diego Coastal Kelp Forest Ecosystem (2014-2019)*

San Diego Kelp Forest Ecosystem Monitoring Project



San Diego Kelp Forest Monitoring Project Background & History

- ❖ Long-term studies of San Diego region kelp forests
 - Core program conducted by SIO since ~1971
 - Links to earlier work in 1950s
- ❖ City Involvement (1992-present)
 - Provided critical support to City in evaluating effects of 1992 Pt Loma outfall break
 - Partial funding provided from 1992-2002
 - Expanded to larger 4-yr agreements beginning in 2002 in support of City's Waiver renewal and enhanced monitoring objectives
 - 2002-2006
 - 2006-2010
 - 2010-2014 [present]





San Diego Kelp Forest Monitoring Project *Purpose & Significance*

- ❖ Protection of the coastal marine environment is the main objective of the City's OMP and is of great importance to the City and its citizens, and this project:
 - Helps clearly define impacts of wastewater discharge on the health and stability of local kelp forests relative to other anthropogenic or natural environmental factors.
 - Represents a major component of the City's efforts to meet these needs, and also addresses NPDES "special study" requirements for Pt Loma.
 - Represents a unique, long-term program assessing the health of our local kelp forests and the quality of San Diego's coastal recreational waters.
 - Provides important scientific documentation in support of the City's 301(h) modified permit (waiver) for the PLWTP.
 - Provides critical information to address external recommendations regarding the importance of enhanced monitoring from a regional perspective.




San Diego Kelp Forest Monitoring Project *New Agreement*

- ❖ Expands and extends project 5 years (2014-2019)
- ❖ Study areas
 - Large Pt Loma and La Jolla kelp forests
 - Smaller kelp beds of San Diego County
- ❖ Main components
 - Kelp habitat monitoring (giant kelp & other kelps)
 - Sea urchin monitoring
 - Kelp forest fish and invertebrate populations
 - Physical oceanographic measurements
- ❖ Field effort ~450 dives/year
- ❖ Total 5-yr cost = \$2,662,178





How many lobsters?





Primary Contacts

<p><u>Program Manager</u> City of San Diego</p> <p>Timothy D. Stebbins, Ph.D. Sr. Marine Biologist tstebbins@san-diego.gov</p> 	<p><u>Principal Investigators</u> Scripps Institution of Oceanography</p> <p>P. Ed Parnell, Ph.D. Associate Research Oceanographer eparnell@ucsd.edu</p> <p>Paul K. Dayton, Ph.D. Professor / Research Biologist pdayton@ucsd.edu</p> 
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METRO JPA/TAC**Staff Report****Date:****Project Title:** Point Loma Digester Roof Systems Replacement and Repairs**Requested Action:** Authorizing the expenditure not to exceed \$757,595 from Metro Sewer Fund 700001, to Brazos Urethane Inc., for the repair and replacement of the five digesters roofing system at Point Loma Wastewater Treatment Plant.**Recommendations:** Approval

Metro TAC:

IROC:

N/A

Prior Actions:
(Committee/Commission,
Date, Result)

N/A

Fiscal Impact: Total estimated cost for this construction contract is \$757,595. Funds are available in the FY14 Metro Sewer Utility Fund 700001.Is this projected budgeted? Yes ☒ No ☐Cost breakdown between
Metro & Muni: \$757,595 (100% Metro)Fiscal impact to the Metro
JPA: \$253,795 (33.5% Metro JPA)**Capital Improvement Program:**New Project? Yes ☐ No ☒Existing Project? Yes ☐ No ☒ upgrade/addition ☒ change ☐**Previous TAC/JPA Action:** Tabled by Metro TAC on March 19, 2014**Additional/Future Action:** To be approved by Infrastructure Committee**City Council Action:** To be approved by City Council

(NEW) Background: The Public Utilities Department owns and operates the Point Loma Wastewater Treatment Plant (PLWTP) that treats approximately 160 million gallons of wastewater per day to service the San Diego Metropolitan Wastewater System. The plant has a total of eight digesters, each holds approximately 3.5 million gallons of wastewater biosolids. These digesters are heated and under pressure to hold in odors and the methane gas generated during the biosolids treatment process. This methane gas is the energy source used on site to create electricity to operate the PLWTP. Any unplanned release of odors or methane would be a violation of the Air Pollution Control District permit and could result in significant fines.

Based on a recent inspection, significant deterioration was observed on the tops of five biosolids digesters. The protective covering/roofing systems, consisting of thermal insulation and a corrosion protective coating, require repair and replacement. The thermal insulation maintains the constant temperature needed for the biosolids digestion process to occur. The elastomeric waterproof coating and non-skid surface is needed to protect the digester's steel dome from corrosion. If the existing roofing systems are not replaced and/or repaired, water

intrusion through the failed roofing system will lead to corrosion of the digester domes, which will ultimately lead to gas leaks and a catastrophic failure of the biosolids digesters.

This project will replace the existing roof insulation and coating system on Digesters 7, N1, and N2 and repair the delaminating (bubbles and blisters) roof coating system on Digesters C1 and C2. The roof replacement and repairs involve removing the existing insulation and coating, sandblasting the steel dome, applying a coating of anticorrosive epoxy to the steel, installing urethane foam insulation, and applying an elastomeric waterproof coating with non-skid surface.

This action is to award the contract to Brazos Urethane Inc., which has been selected through the City's competitive bidding process. The total estimated cost for this project is \$757,595, which includes \$721,595 for construction and \$36,000 for contingency.

(NEW) Discussion: *Provide information on decisions made to advance the project*

Due to the deterioration of the roof insulation and coating, Digester roofs need to be replaced and repaired to ensure continuous compliance with the Air Pollution Control District permit and to provide safe and reliable working conditions for operational staff.

(NEW) Bid Results: Bid opening was held on February 4, 2014, and there were two bids: (1) Brazos Urethane Inc. at \$721,595, and (2) Cook Coating Inc. at \$779,700. Brazos Urethane Inc. was selected as the lowest responsive bidder at \$721,595.

METRO JPA/TAC**Staff Report****Date:****Project Title:** Pump Station 2 Force Main Siphon and West Point Loma Interceptor Sewer Liner Repairs**Requested Action:** Authorizing the expenditure not to exceed \$1,700,000 from Metro Sewer Fund 700009, WBS B11098, for the Pump Station 2 Force Main Siphon and West Point Loma Interceptor Sewer Liner Repairs.**Recommendations:** Approval

Metro TAC:

IROC:

Prior Actions:
(Committee/Commission,
Date, Result)

N/A

Fiscal Impact: Total estimated project cost is \$1,700,000. Funds are available in the FY15 Metro Sewer Utility Fund 700009.Is this projected budgeted? Yes ☒ No ☐Cost breakdown between
Metro & Muni: \$1,700,000 (100% Metro)Fiscal impact to the Metro
JPA: \$569,500 (33.5% Metro JPA)**Capital Improvement Program:**New Project? Yes ☐ No ☒Existing Project? Yes ☐ No ☒ upgrade/addition ☒ change ☐**Previous TAC/JPA Action:** N/A**Additional/Future Action:** N/A**City Council Action:** N/A**(NEW) Background:** The Public Utilities Department owns and operates the 87-inch Pump Station 2 (PS2) Force Main and the 114-inch West Point Loma Interceptor pipelines.

The PS2 Force Main is an 87-inch reinforced concrete pipe (RCP) force main that runs from Pump Station 2 to the East Portal Structure and is approximately 15,000 feet long. The portion requiring liner repairs is the force main siphon located under the Navy channel at the Harbor Drive Bridge. The Force Main Siphon is approximately 664 feet long and is approximately 1,700 feet downstream of Pump Station 2. The Force Main Siphon was inspected in 2008 and 2012 to assess the condition of the 87-inch siphon portion of the force main prior to renovation of the North Harbor Drive Bridge. The inspection determined that the pipeline is in good condition;

however, the inspection revealed damage to the 240-degree T-lock liner and showed severe liner bubbling near the access structures located on both sides of the siphon.

The West Point Loma Interceptor Sewer (WPLIS) conveys all the raw sewage to the Point Loma Wastewater Treatment Plant (PLWTP). The interceptor is a 114-inch reinforced concrete sewer with Polyvinyl Chloride (PVC) lined pipe and is approximately 1.4 miles long. The WPLIS was inspected in 2008 to determine the condition and structural integrity of the pipeline. The assessment determined that this pipeline is in good condition; however, damage to the 240-degree T-lock liner and pipe joints were identified on the WPLIS, allowing sewer gas to come in contact with the reinforced concrete pipe (RCP).

The project will repair and restore the damaged T-lock liner at 47 locations within the two pipelines including rehabilitation of 10 manholes with a new PVC liner by Ameron ArrowLock.

This action is to award the construction contract to Sancon Engineering Inc., which has been selected through the City's competitive bidding process. The total estimated cost for this project is 1,700,000, which includes \$1,362,975 for construction and \$337,025 for project administration as well as construction management and inspection.

(NEW) Discussion: *Provide information on decisions made to advance the project*

Condition assessment inspections revealed damages to the T-Lock liner and the pipe joints on both the PS2 Force Main Siphon and WPLIS Liner. In order to protect the integrity of the pipelines and address the liner problems, this project will be awarded to Sancon Engineering, who is familiar with the wastewater system and has performed similar lining repairs on large diameter pipelines for the City of San Diego.

(NEW) Bid Results: Bid opening was held on March 25, 2014, and Sancon Engineering Inc. submitted the only bid, in the amount of \$1,362,975.

METRO JPA/TAC
Staff Report
Date: April 16, 2014

Project Title:

South Bay Water Reclamation Plant Demineralization, (WBS# S-00310)

Requested Action:

Approval for the SBWRP Demineralization Design-Build Project. The total estimated project cost is \$5,973,695 and the design-builder contract was awarded to Ortiz Corporation, in the amount of \$3,888,562. This project provides demineralization of reclaimed water using the Electrodialysis Reversal (EDR) process.

Recommendations:

Metro TAC:	Present to JPA
IROC:	N/A- This project is included in the approved Metro CIP budget and does not require IROC review
Prior Actions: (Committee/Commission, Date, Result)	2/19/14, presented to TAC. Action sent to JPA. 3/6/14, presented to JPA. JPA sent action back to TAC with comments. 3/19/14, presented to TAC. TAC requested for action to come back to TAC meeting in April 2014.

Fiscal Impact:

Is this projected budgeted?	Yes <u>X</u> No ____
Cost breakdown between Metro & Muni:	\$5,973,695 (100% Metro)
Fiscal impact to the Metro JPA:	\$2,001,187 (33.5% Metro JPA)

Capital Improvement Program:

New Project?	Yes <u>X</u> No ____
Existing Project?	Yes ____ No <u>X</u> upgrade/addition ____ change ____

Previous TAC/JPA Action:

2/19/14, presented to TAC. Action sent to JPA.
3/6/14, presented to JPA. JPA sent action back to TAC with comments.
3/19/14, presented to TAC. TAC requested for action to come back to TAC meeting in April 2014.

Additional/Future Action:

City Council Action:

N/A

(NEW) Background: *Provide background information on the need for the project*

Demineralization process is required to reduce the level of chloride and overall total dissolved solids in the reclaimed product water. This project is necessary to comply with the RWQCB requirements.

(NEW) Discussion: *Provide information on decisions made to advance the project*

10/1/12 – Project transferred from Public Utilities Dept to Public Works Dept for implementation.
7/2/13 – Performed bid opening. Budget increase was approved by Public Utilities Dept on 7/29/13.
11/12/13 – NTP was issued to Ortiz Corporation.

(NEW) Bid Results: *If bidding was done provide bidding format and results*

Bidding Format:

Design-Build project delivery, RFP issued to As-Needed D-B firms. Selection based on “Adjusted Low Bid” (Scoring of technical proposals and the presentation/interviews, is applied to the Price Proposal to yield the “Adjusted Low Bid”. The Price Proposal as submitted is the actual Contract Price.)

Bid Results:

Ortiz Corporation/RBF Consulting \$3,888,562 (awarded contract)
Ahrens Corporation/Lee & Ro, Inc \$3,963,096

**Public Utilities Department
BCE Project Abstract**

12-006
Alternative #3 approved

Title	South Bay Water Reclamation Plant Electrodialysis Reversal (EDR)
Proponent	Albert Sohikish
Division	Engineering & Program Management Division
Sponsor/Deputy Director	Guann Hwang
Submission Date	June 18, 2012

Issue/Problem to be Addressed

The South Bay Water Reclamation Plant (SBWRP) is a 15 mgd water reclamation plant, which processes wastewater from the San Diego South Bay region to secondary treatment for ocean discharge and tertiary treatment for recycled water production. See Figure 1 for SBWRP Location Map. The plant currently treats an average flow of 8.5 mgd of wastewater and provides reclaimed water to the International Boundary Water Commission (IBWC), and Otay Water District (Otay). The reclaimed water data for 2010 and 2011 show an average daily demand of approximately 3 mgd with a peak demand of 6 mgd. The Total Dissolved Solids (TDS) level of reclaimed water at South Bay fluctuates but remains below 1,000 mg/L which meets the requirement of reclaimed water contract with Otay. It is anticipated that a demineralization facility and/or EDR will be required at SBWRP with the increase in reclaimed water demand and future flow with higher TDS level from the industrial areas.

In addition to the TDS level, the chloride concentration and manganese levels at SBWRP exceed the limit per the Monthly Monitoring and Technical Reports. On February 7, 14, 20 and 28, 2012, the 30-day running average value for chloride exceeded the monthly average limit of 260 mg/L with values of 286 mg/L, 288 mg/L, 288 mg/L and 287 mg/L respectively. The manganese level on February 7, 2012 also exceeded the monthly average limit of 50 mg/L. The Department is required to report to the Regional Water Quality Control Board (RWQCB) the exceeded limit on chloride and manganese level per the Waste Discharge and Water Recycling Requirements (Order No. 2000-203).

Other Considerations

1. Initial capital cost for long-term benefit at South Bay.
2. A similar EDR Maintenance Agreement with North City will be required for SBWRP (GE has currently a full time staff at North City for EDR maintenance). This is estimated at \$20,000/month. The current EDR maintenance agreement for the North City could be re-evaluated and amended to include the South Bay. This will be the most cost effective way rather than a separate maintenance contract.
3. Modification of mechanical, electrical, instrumentation & control system will be required with the removal of the EDR unit(s) at North City.
4. With the operation of AWP Facility at NCWRP, there is no need for the operation of all EDR units. However, should the AWP operation be discontinued, all of the six (6) EDR units will be needed to meet the reclaimed water demand.

Comments

Currently, the reclaimed water at South Bay plant is less than 1,000 mg/L of TDS which meets the contract requirements, however, due to the TDS fluctuation and the future demand for higher production of reclaimed water, a demineralization facility will be required to maintain the level of TDS. Higher production of reclaimed water will require additional wastewater which may result in diverting flows from the Imperial Beach basin to SBWRP. Historically, the Imperial Beach flows consist of high TDS level (1,860 mg/L). The TDS level at SBWRP can be reassessed as flow increases in the future. With regard to the manganese and chloride levels that exceeded the limit, this can be also mitigated through using EDR technology to reduce these elements to an acceptable level.

The recommendation is to move two EDR trailer units from NCWRP to SBWRP at a cost of \$2.4 million. With the EDR project, the Department will save \$13.6 million by not having to construct the South Bay Demineralization Facility. This project will helpⁱⁿ reducing the chloride and manganese level and maintaining the TDS level below 1,000 mg/L at SBWRP.

Cost Estimates

Attachments: Y/N

COST BREAKDOWN

Alternative 1 - Do Nothing	N/A
Alternative 2 - Relocate one Trailer Unit to South Bay (See Attachment 1)	\$1.9 M
Alternative 3 - Relocate two Trailer Units to South Bay (See Attachment 2)	\$2.4 M
Alternative 4 - Purchase & Install a new EDR Unit for South Bay (See Attachment 3)	\$4.2 M
Alternative 5 – Blend Potable Water	\$0.5 M/yr



FIGURE 1 : SOUTH BAY WATER RECLAMATION PLANT

Design Definition Report

The following is a generalized narrative description of what is required to install two EDR Trailer Units and appurtenant facilities at the SBWRP.

1. A new filter effluent bypass loop may be required to provide a bypass line around the exiting filter effluent pipe. The design flow of the existing facility may not be compatible with the required low flow rate for EDR system.
2. A concrete pad (estimated at 36 ft x 60 ft) to be designed and constructed for estimated 100,000 pound trailer load with double axel main wheel set and front end landing gear.
3. Provide 480 volt, 3 phase power, (400 amp minimum power supply for each EDR trailer). Provide wire, conduit and labor to connect EDR trailers to EDR feed power source, to EDR feed pump and electrical room equipment (UPS, existing DCS / PC to EDR trailer control system).
4. Provide in ground piping that penetrates concrete pad and final connection of feedwater, EDR product water, Clean In Place (CIP) feed and return system, and electrode (ECIP) chemical solutions and waste brine to its source or disposal location within the EDR trailer facility. Provide connections up to PVC flange fittings underneath the trailer unit. Interconnect all trailer connections to new installed piping system within the EDR treatment area.
5. Provide feed water pumping/conveyance for both EDR trailer units. Two 75 hp pumps will be required to send minimum estimated 75 psi (932 gpm) water pressure to meet feed water requirement for each trailer. Both EDR feed pumps will be driven with variable-frequency drives (VFDs) in order to modulate overall EDR feed water flow. Motors provided for the new pumps will be VFD compatible. EDR feed pumps will be controlled by the PLC provided with EDR Units.
6. Provide a dedicated EDR Electrical Room to house the VFDs and control system integration. Integration of the EDR feed pump and EDR controls with the plant DCS system will be part of the EDR project at South Bay.
7. Provide sunshade for EDR membrane stack teardown, during maintenance times when trailerized EDR membrane stacks will be removed from trailer body for such maintenance.
8. Provide dedicated 2 ton forklift for EDR membrane stack removal from trailer and transport to and from maintenance location under future sunshade area.
9. Provide in-ground interconnection of the electrical room Main EDR 2020 PLC/Allen Bradley Touchscreen to each trailerized EDR system for joint control/monitoring of EDR system operation and data transfer to existing operations building control room.
10. Provide liquid chlorine injection to EDR feed line for inclusion into trailerized EDR system feedwater.
11. Provide additional caustic feed (if required) to adjust pH of EDR product water.
12. Provide all electrical power, chemicals and filter cartridges necessary to operate and maintain the trailer units.
13. Provide in concrete pad grounding grid for trailers. Connect grounding grid to trailer units.
14. Provide jack stands for elevating trailer up off concrete pad for long-term use at site.
15. Provide a connection from EDR Product line to the existing UV influent channel through a connection box. This connection will be made through a new concrete EDR product connection box and by coring a hole in the existing structure.
16. Provide a similar EDR Maintenance Contract as North City for South Bay with GE Water & Process Technologies. This is estimated at \$20,000/month.
17. Decommissioning of the trailer units from North City will require some modifications to the mechanical, electrical, chemical, and instrumentation & control.

ATTACHMENT 1

SBWRP EDR Cost Estimate Alternative 2

SOUTH BAY WATER RECLAMATION PLANT EDR PROJECT
Relocate One EDR Trailer from NCWRP to SBWRP

Item No.	Quantity	Unit	Description	Unit Price	Extension
1.	1	LS	Mobilization	\$15,000	\$15,000
2.	1	LS	Filter Effluent Bypass	\$300,000	\$300,000
3.	1	LS	EDR Concrete Pad & Associated Piping, Electrical & Mechanical	\$280,000	\$280,000
4.	1	LS	Insurance & Bond (Payment & Performance)	\$20,000	\$20,000
5.	1	LS	480 Volt, 3 Phase Power / Electrical Wiring & Connections	\$70,000	\$70,000
6.	1	LS	Ground Piping for EDR Feed, Product, CIP Feed and Return, ECIP, and Chemical Piping/Facility	\$150,000	\$150,000
7.	1	LS	Feed Pumps & VFDs	\$180,000	\$180,000
8.	1	LS	Electrical Room, Control Station, DCS Integration	\$200,000	\$200,000
9.	1	LS	Sunshade / Canopy	\$30,000	\$30,000
10.	1	LS	2 Ton Forklift	\$50,000	\$50,000
11.	1	LS	Seismic Connections to Concrete Slab	\$7,000	\$7,000
12.	1	LS	Connection Box to UV Channel	\$36,000	\$36,000
13.	1	LS	Permits	\$10,000	\$10,000
14.	1	LS	SWPPP	15,000	\$15,000
15.	1	LS	NC Modifications	\$20,000	\$20,000
16.	1	LS	EDR Move to South Bay	\$15,000	\$15,000
17.	1	LS	Field Order Allowance	\$56,000	\$56,000
18.	Total				\$1,454,000
19.	1	LS	Contingency	\$80,000	\$80,000
20.	1	LS	Project Management / Admin	\$100,000	\$100,000
21.	1	LS	Construction Management	\$120,000	\$120,000
22.	1	LS	Design	\$150,000	\$150,000
23.	Grand Total				\$1,904,000

ATTACHMENT 2

SBWRP EDR Cost Estimate Alternative 3

SOUTH BAY WATER RECLAMATION PLANT EDR PROJECT
Relocate Two EDR Trailers from NCWRP to SBWRP

Item No.	Quantity	Unit	Description	Unit Price	Extension
1.	1	LS	Mobilization	\$15,000	\$15,000
2.	1	LS	Filter Effluent Bypass	\$300,000	\$300,000
3.	1	LS	EDR Concrete Pad & Associated Piping, Electrical & Mechanical	\$330,000	\$330,000
4.	1	LS	Insurance & Bond (Payment & Performance)	\$20,000	\$20,000
5.	1	LS	480 Volt, 3 Phase Power	\$90,000	\$90,000
6.	1	LS	Ground Piping for EDR Feed, Product, CIP Feed and Return, ECIP, and Chemical Piping/Facility	\$150,000	\$150,000
7.	1	LS	Feed Pumps & VFDs (2 Units Each)	\$360,000	\$360,000
8.	1	LS	Electrical Room, Control Station, DCS Integration	\$200,000	\$200,000
9.	1	LS	Sunshade / Canopy	\$30,000	\$30,000
10.	1	LS	2 Ton Forklift	\$50,000	\$50,000
11.	1	LS	Seismic Connections to Concrete Slab	\$14,000	\$14,000
12.	1	LS	Connection Box to UV Channel	\$36,000	\$36,000
13.	1	LS	Permits	\$10,000	\$10,000
14.	1	LS	SWPPP	15,000	\$15,000
15.	1	LS	NC Modifications	\$35,000	\$35,000
16.	1	LS	EDR Move to South Bay	\$30,000	\$30,000
17.	1	LS	Field Order Allowance	\$70,000	\$70,000
18.	Total				\$1,755,000
19.	1	LS	Contingency	\$140,000	\$140,000
20.	1	LS	Project Management / Admin	\$150,000	\$150,000
21.	1	LS	Construction Management	\$200,000	\$200,000
22.	1	LS	Design	\$200,000	\$200,000
23.	Grand Total				\$2,445,000

ATTACHMENT 3

SBWRP EDR Cost Estimate Alternative 4

SOUTH BAY WATER RECLAMATION PLANT EDR PROJECT
Purchase & Install One EDR Unit from GE

Item No.	Quantity	Unit	Description	Unit Price	Extension
1.	1	LS	Mobilization	\$15,000	\$15,000
2.	1	LS	Filter Effluent Bypass	\$300,000	\$300,000
3.	1	LS	EDR Concrete Pad & Associated Piping, Electrical & Mechanical	\$280,000	\$280,000
4.	1	LS	Insurance & Bond (Payment & Performance)	\$20,000	\$20,000
5.	1	LS	480 Volt, 3 Phase Power / Electrical Wiring & Connections	\$70,000	\$70,000
6.	1	LS	Ground Piping for EDR Feed, Product, CIP Feed and Return, ECIP, and Chemical Piping/Facility	\$150,000	\$150,000
7.	1	LS	Feed Pumps & VFDs	\$180,000	\$180,000
8.	1	LS	Electrical Room, Control Station, DCS Integration	\$200,000	\$200,000
9.	1	LS	Sunshade / Canopy	\$30,000	\$30,000
10.	1	LS	2 Ton Forklift	\$50,000	\$50,000
11.	1	LS	Seismic Connections to Concrete Slab	\$7,000	\$7,000
12.	1	LS	Connection Box to UV Channel	\$36,000	\$36,000
13.	1	LS	Permits	\$10,000	\$10,000
14.	1	LS	SWPPP	15,000	\$15,000
15.	1	LS	Procurement of 1 EDR Unit	\$950,000	\$950,000
16.	1	LS	EDR Assembly/Installation	\$1,000,000	\$1,000,000
17.	1	LS	Field Order Allowance	\$80,000	\$80,000
18.	Total				\$3,393,000
19.	1	LS	Contingency	\$180,000	\$180,000
20.	1	LS	Project Management / Admin	\$180,000	\$180,000
21.	1	LS	Construction Management	\$200,000	\$200,000
22.	1	LS	Design	\$250,000	\$250,000
23.	Grand Total				\$4,203,000

South Bay Water Reclamation Plant
Otay Recycled Water Summary

Month	FY 10			FY 11			FY 12			FY 13		
	RW PRODUCED	OTAY DEMAND	RW OTAY	RW PRODUCED	OTAY DEMAND	RW OTAY	RW PRODUCED	OTAY DEMAND	RW OTAY	RW PRODUCED	OTAY DEMAND	RW OTAY
July	6.42	-	5.36	5.43	5.00	4.61	5.67	5.45	4.62	5.50	-	4.95
August	6.34	-	5.00	5.85	5.03	5.03	6.24	6.00	5.03	5.50	-	4.93
September	6.49	-	5.11	5.32	5.25	4.56	5.44	5.60	4.15	4.95	-	4.41
October	4.58	-	3.32	2.24	4.71	1.78	4.27	4.95	3.20	3.91	-	3.66
November	3.53	-	2.42	2.80	3.88	2.34	0.78	2.10	0.57	2.62	-	2.40
December	0.67	-	0.30	1.51	3.00	1.29	0.33	1.68	0.24	0.60	-	0.46
January	1.44	1.14	0.78	1.01	0.77	0.85	1.96	3.00	1.35	0.46	-	0.43
February	0.48	0.50	0.20	1.47	1.96	1.02	1.72	1.65	1.40	0.72	-	0.63
March	1.41	0.98	0.57	0.84	0.58	0.40	1.89	1.00	1.30	1.54	-	1.22
April	1.55	2.00	1.15	2.94	1.87	2.02	2.65	0.10	1.90	3.05	-	2.50
May	4.17	3.42	3.43	4.27	3.74	3.28	4.29	-	3.84	3.84	-	3.33
June	5.64	4.80	5.03	5.32	4.60	4.27	5.22	-	4.70	5.29	-	4.68

FY 10	SBWRP INFLUENT	BLENDED SLUDGE	RW PRODUCED	OUTFALL FLOW	OTAY DEMAND	RW OTAY	OTAY TANK LEVEL MIN 15/ MAX 28
Date	MGD	MGD	MGD	MGD	MGD	MGD	FT
Average=	8.18	1.55	3.58	3.02	1.07	2.73	N/A
July 1, 2009	8.55	1.61	5.61	0.93	0.00	4.97	
July 2, 2009	8.33	1.74	6.27	0.09	0.00	5.42	
July 3, 2009	8.27	1.48	6.68	0.06	0.00	5.92	
July 4, 2009	7.67	1.58	6.12	0.06	0.00	5.33	
July 5, 2009	8.00	1.40	6.81	0.04	0.00	5.83	
July 6, 2009	8.38	1.49	6.59	0.06	0.00	5.79	
July 7, 2009	8.56	1.52	6.88	0.08	0.00	6.07	
July 8, 2009	8.52	1.54	6.64	0.07	0.00	5.80	
July 9, 2009	8.17	1.42	6.58	0.09	0.00	5.68	
July 10, 2009	6.89	1.45	4.56	0.85	0.00	3.62	
July 11, 2009	8.23	1.48	6.61	0.08	0.00	5.66	
July 12, 2009	8.13	1.50	6.52	0.07	0.00	5.58	
July 13, 2009	8.51	1.56	7.08	0.10	0.00	6.05	
July 14, 2009	8.68	1.72	5.71	0.97	0.00	4.93	
July 15, 2009	8.48	1.66	6.41	0.66	0.00	5.49	
July 16, 2009	8.61	1.43	5.28	1.40	0.00	4.44	
July 17, 2009	8.49	1.76	6.33	0.47	0.00	5.38	
July 18, 2009	8.26	1.50	7.08	0.07	0.00	6.05	
July 19, 2009	7.96	1.71	5.94	0.08	0.00	4.99	
July 20, 2009	8.55	1.58	6.63	0.07	0.00	5.76	
July 21, 2009	8.68	1.69	6.91	0.08	0.00	6.02	
July 22, 2009	8.70	1.71	6.91	0.07	0.00	5.33	
July 23, 2009	8.62	1.56	6.87	0.05	0.00	5.40	
July 24, 2009	8.47	1.70	6.69	0.08	0.00	5.30	
July 25, 2009	8.22	1.50	6.69	0.03	0.00	5.18	
July 26, 2009	8.20	1.68	6.59	0.10	0.00	4.93	
July 27, 2009	8.62	1.68	6.47	0.09	0.00	5.07	
July 28, 2009	8.39	1.59	6.73	0.07	0.00	5.39	
July 29, 2009	8.47	1.70	5.81	0.76	0.00	4.48	
July 30, 2009	8.28	1.78	6.56	0.08	0.00	5.17	

July 31, 2009	8.35	1.57	6.53	0.02	0.00	5.22
August 1, 2009	8.07	1.64	6.55	0.06	0.00	5.12
August 2, 2009	8.44	1.49	6.68	0.04	0.00	5.19
August 3, 2009	8.43	1.67	6.76	0.07	0.00	5.39
August 4, 2009	8.41	1.61	6.71	0.03	0.00	5.27
August 5, 2009	8.56	1.60	6.77	0.07	0.00	5.18
August 6, 2009	8.31	1.46	6.75	0.04	0.00	5.30
August 7, 2009	8.29	1.65	6.56	0.22	0.00	5.14
August 8, 2009	8.14	1.53	6.75	0.04	0.00	5.37
August 9, 2009	8.09	1.58	6.06	0.07	0.00	4.71
August 10, 2009	7.97	1.39	5.75	1.03	0.00	4.34
August 11, 2009	8.09	1.64	6.36	0.06	0.00	5.06
August 12, 2009	2.78	0.35	4.98	1.25	0.00	3.67
August 13, 2009	8.30	1.58	6.00	0.09	0.00	4.71
August 14, 2009	8.30	1.56	6.85	0.07	0.00	5.49
August 15, 2009	8.03	1.48	6.31	0.06	0.00	4.83
August 16, 2009	7.63	1.55	5.86	0.04	0.00	4.60
August 17, 2009	8.17	1.60	6.64	0.02	0.00	5.30
August 18, 2009	8.57	1.60	6.81	0.12	0.00	5.41
August 19, 2009	8.36	1.51	6.58	0.06	0.00	5.29
August 20, 2009	8.13	1.55	6.93	0.06	0.00	5.51
August 21, 2009	8.47	1.65	6.18	0.07	0.00	5.12
August 22, 2009	8.31	1.47	7.03	0.07	0.00	5.72
August 23, 2009	8.02	1.66	6.19	0.08	0.00	4.62
August 24, 2009	8.52	1.52	4.69	2.23	0.00	3.17
August 25, 2009	8.46	1.58	6.94	0.07	0.00	5.59
August 26, 2009	8.73	1.48	7.04	0.10	0.00	5.62
August 27, 2009	8.34	1.42	5.44	1.15	0.00	4.18
August 28, 2009	8.12	1.59	5.81	0.66	0.00	4.66
August 29, 2009	8.13	1.31	6.02	0.75	0.00	5.03
August 30, 2009	8.09	1.39	6.66	0.05	0.00	5.72
August 31, 2009	8.39	1.68	5.90	1.03	0.00	4.62
September 1, 2009	8.17	1.31	6.97	0.06	0.00	5.50
September 2, 2009	8.20	1.56	6.24	0.08	0.00	4.80



September 3, 2009	8.32	1.42	5.92	0.78	0.00	4.58
September 4, 2009	8.14	1.47	5.95	0.72	0.00	4.63
September 5, 2009	8.12	1.42	6.68	0.08	0.00	5.25
September 6, 2009	7.57	1.32	6.68	0.04	0.00	5.15
September 7, 2009	8.19	1.38	6.11	0.04	0.00	4.62
September 8, 2009	8.13	1.42	6.91	0.07	0.00	5.28
September 9, 2009	8.39	1.50	6.64	0.07	0.00	5.22
September 10, 2009	8.22	1.41	6.39	0.11	0.00	4.91
September 11, 2009	8.13	1.52	6.69	0.04	0.00	5.58
September 12, 2009	8.05	1.55	6.35	0.04	0.00	5.14
September 13, 2009	7.99	1.56	6.54	0.04	0.00	5.12
September 14, 2009	8.39	1.33	6.81	0.06	0.00	5.27
September 15, 2009	8.39	1.69	6.61	0.06	0.00	5.31
September 16, 2009	8.45	1.38	6.82	0.06	0.00	5.46
September 17, 2009	8.44	1.51	6.83	0.05	0.00	5.39
September 18, 2009	8.21	1.47	6.82	0.05	0.00	5.42
September 19, 2009	8.17	1.40	6.85	0.05	0.00	5.43
September 20, 2009	8.18	1.38	6.36	0.06	0.00	4.99
September 21, 2009	8.71	1.31	7.32	0.05	0.00	5.86
September 22, 2009	8.61	1.68	6.82	0.05	0.00	5.41
September 23, 2009	8.37	1.71	6.44	0.05	0.00	5.26
September 24, 2009	8.28	1.51	5.66	1.03	0.00	4.80
September 25, 2009	8.20	1.75	5.55	0.82	0.00	4.20
September 26, 2009	8.24	1.48	6.80	0.04	0.00	5.50
September 27, 2009	7.68	1.54	5.99	0.02	0.00	4.65
September 28, 2009	8.40	1.47	6.75	0.07	0.00	5.35
September 29, 2009	8.17	1.41	6.65	0.08	0.00	5.17
September 30, 2009	6.88	1.47	5.49	0.04	0.00	4.14
October 1, 2009	7.97	1.57	6.18	0.05	0.00	4.88
October 2, 2009	8.07	1.49	5.55	1.20	0.00	4.35
October 3, 2009	8.14	1.39	6.42	0.06	0.00	5.07
October 4, 2009	8.12	1.40	4.32	2.43	0.00	3.08
October 5, 2009	8.17	1.58	0.00	6.36	0.00	0.00
October 6, 2009	8.36	1.50	6.46	0.35	0.00	5.14



October 7, 2009	8.39	1.39	6.90	0.09	0.00	5.40
October 8, 2009	8.22	1.70	4.70	1.75	0.00	3.30
October 9, 2009	8.18	1.51	4.42	2.28	0.00	3.22
October 10, 2009	8.22	1.53	3.29	3.27	0.00	2.25
October 11, 2009	8.11	1.45	5.01	1.63	0.00	3.67
October 12, 2009	8.48	1.63	2.81	3.99	0.00	1.72
October 13, 2009	8.35	1.54	6.79	0.08	0.00	5.27
October 14, 2009	8.61	1.54	5.39	1.63	0.00	4.20
October 15, 2009	8.46	1.52	5.06	1.71	0.00	3.65
October 16, 2009	8.43	1.52	6.00	0.85	0.00	4.61
October 17, 2009	8.25	1.51	3.14	3.55	0.00	2.08
October 18, 2009	8.15	1.49	2.45	4.28	0.00	1.32
October 19, 2009	8.41	1.50	2.91	4.11	0.00	1.73
October 20, 2009	8.27	1.57	5.05	1.59	0.00	3.79
October 21, 2009	7.92	1.43	3.76	2.33	0.00	2.39
October 22, 2009	7.59	1.45	5.15	0.96	0.00	3.63
October 23, 2009	7.82	1.36	5.36	1.16	0.00	3.90
October 24, 2009	7.90	1.38	5.38	1.33	0.00	3.90
October 25, 2009	8.03	1.46	3.46	2.96	0.00	2.27
October 26, 2009	8.54	1.39	2.95	3.99	0.00	1.67
October 27, 2009	8.37	1.47	5.26	1.85	0.00	3.93
October 28, 2009	8.36	1.41	3.92	2.86	0.00	2.63
October 29, 2009	8.57	1.51	5.21	1.40	0.00	3.87
October 30, 2009	8.33	1.58	5.21	1.46	0.00	3.82
October 31, 2009	7.86	1.43	3.40	3.28	0.00	2.08
November 1, 2009	7.98	1.39	0.00	6.41	0.00	0.00
November 2, 2009	7.94	1.40	3.58	3.02	0.00	2.35
November 3, 2009	8.31	1.44	5.32	1.31	0.00	3.95
November 4, 2009	8.30	1.46	5.30	1.57	0.00	4.19
November 5, 2009	8.35	1.44	5.36	1.19	0.00	4.14
November 6, 2009	8.12	1.31	5.46	1.37	0.00	4.08
November 7, 2009	7.81	1.28	5.37	1.33	0.00	3.98
November 8, 2009	7.82	1.36	1.61	4.63	0.00	0.59
November 9, 2009	8.34	1.35	4.27	2.75	0.00	2.91



November 10, 2009	8.52	1.52	5.16	1.92	0.00	3.75
November 11, 2009	8.48	1.47	4.50	2.08	0.00	3.16
November 12, 2009	8.19	1.28	3.96	3.20	0.00	2.66
November 13, 2009	8.20	1.30	1.14	5.52	0.00	0.00
November 14, 2009	7.93	1.46	0.46	5.96	0.00	0.00
November 15, 2009	7.72	1.41	2.16	3.89	0.00	1.20
November 16, 2009	8.27	1.56	4.36	2.44	0.00	2.96
November 17, 2009	8.07	1.37	3.68	2.78	0.00	2.38
November 18, 2009	8.14	1.57	3.09	3.40	0.00	1.93
November 19, 2009	7.86	1.61	3.85	2.45	0.00	2.53
November 20, 2009	8.09	1.46	4.21	2.48	0.00	2.98
November 21, 2009	7.66	1.43	2.40	3.64	0.00	1.30
November 22, 2009	7.60	1.69	0.00	5.99	0.00	0.00
November 23, 2009	8.18	1.69	4.35	1.92	0.00	3.00
November 24, 2009	8.11	1.62	4.12	2.31	0.00	2.85
November 25, 2009	8.22	1.58	4.44	1.98	0.00	3.05
November 26, 2009	7.82	1.59	3.64	2.48	0.00	2.43
November 27, 2009	7.39	1.57	5.21	0.82	0.00	3.81
November 28, 2009	7.59	1.60	4.56	1.22	0.00	3.19
November 29, 2009	7.63	1.49	0.00	6.06	0.00	0.00
November 30, 2009	8.22	1.68	4.45	2.05	0.00	3.14
December 1, 2009	7.70	1.62	0.08	6.16	0.00	0.00
December 2, 2009	7.85	1.53	2.22	3.90	0.00	1.01
December 3, 2009	8.23	1.69	0.00	6.37	0.00	0.00
December 4, 2009	7.95	1.62	2.47	3.95	0.00	1.19
December 5, 2009	7.72	1.61	0.00	5.94	0.00	0.00
December 6, 2009	8.06	1.57	0.47	6.00	0.00	0.00
December 7, 2009	8.10	1.32	2.33	4.40	0.00	1.20
December 8, 2009	8.61	1.79	0.00	6.82	0.00	0.00
December 9, 2009	8.56	1.52	0.00	6.91	0.00	0.00
December 10, 2009	8.44	1.67	2.37	4.25	0.00	1.08
December 11, 2009	8.40	1.63	0.41	6.30	0.00	0.00
December 12, 2009	8.13	1.78	0.00	6.28	0.00	0.00
December 13, 2009	8.64	1.54	1.99	5.21	0.00	0.80

December 14, 2009	8.78	1.65	0.12	6.90	0.00	0.00	
December 15, 2009	8.55	1.61	0.48	6.35	0.00	0.00	
December 16, 2009	8.11	1.61	0.00	6.40	0.00	0.00	
December 17, 2009	8.23	1.53	0.15	6.45	0.00	0.00	
December 18, 2009	8.06	1.37	0.00	6.63	0.00	0.00	
December 19, 2009	7.91	1.46	0.00	6.34	0.00	0.00	
December 20, 2009	7.68	1.53	0.00	6.38	0.00	0.00	
December 21, 2009	8.09	1.49	3.60	2.96	0.00	2.60	
December 22, 2009	8.24	1.64	1.41	4.87	0.00	0.42	
December 23, 2009	8.30	1.48	0.00	6.57	0.00	0.00	
December 24, 2009	7.98	1.70	0.00	6.31	0.00	0.00	
December 25, 2009	7.17	1.55	0.00	5.79	0.00	0.00	
December 26, 2009	7.03	1.55	2.04	3.44	0.00	1.00	
December 27, 2009	7.87	1.54	0.00	6.40	0.00	0.00	
December 28, 2009	7.91	1.46	0.00	6.71	0.00	0.00	
December 29, 2009	8.23	1.67	0.62	5.85	0.00	0.00	
December 30, 2009	8.34	1.72	0.00	6.30	0.00	0.00	
December 31, 2009	8.00	1.66	0.00	6.27	0.00	0.00	
January 1, 2010	7.14	1.37	0.00	5.91	No Order	0.00	19.55
January 2, 2010	7.64	1.60	0.00	5.76	No Order	0.00	17.48
January 3, 2010	7.49	1.30	0.00	6.76	No Order	0.00	15.50
January 4, 2010	8.07	1.59	0.00	6.02	No Order	0.00	14.01
January 5, 2010	8.16	1.42	1.21	5.61	No Order	0.14	12.85
January 6, 2010	8.09	1.54	5.08	1.06	No Order	3.88	15.14
January 7, 2010	7.99	1.44	4.67	1.75	No Order	3.41	14.03
January 8, 2010	8.13	1.66	4.40	2.00	No Order	3.20	13.16
January 9, 2010	8.00	1.57	6.30	0.06	No Order	5.02	19.24
January 10, 2010	7.85	1.66	0.80	5.32	No Order	0.00	27.41
January 11, 2010	8.03	1.50	0.54	5.67	2.00	0.00	24.70
January 12, 2010	8.45	1.67	3.50	3.40	2.00	2.28	21.36
January 13, 2010	8.39	1.61	0.00	6.69	2.00	0.00	16.34
January 14, 2010	8.14	1.60	3.38	3.13	2.00	2.24	15.46
January 15, 2010	8.19	1.53	4.17	2.66	2.00	2.95	18.91
January 16, 2010	7.65	1.56	0.00	5.87	2.00	0.00	20.00

January 17, 2010	7.70	1.41	1.46	4.94	2.00	0.40	20.42
January 18, 2010	7.93	1.63	0.62	5.51	2.00	0.00	19.79
January 19, 2010	8.57	1.67	1.21	5.58	2.00	0.07	20.33
January 20, 2010	0.00	0.00	1.71	5.29	0.50	0.52	21.36
January 21, 2010	5.99	0.97	0.00	5.91	0.50	0.00	20.71
January 22, 2010	9.85	1.53	0.96	6.08	0.50	0.00	20.17
January 23, 2010	8.57	1.49	0.98	5.97	0.50	0.00	20.16
January 24, 2010	8.44	1.56	1.01	5.78	0.50	0.00	19.90
January 25, 2010	8.17	1.53	0.28	6.36	0.50	0.00	20.00
January 26, 2010	8.44	1.51	1.56	5.16	0.50	0.00	21.27
January 27, 2010	8.58	1.36	0.00	7.06	0.50	0.00	20.96
January 28, 2010	8.56	1.44	0.93	6.13	0.50	0.00	19.53
January 29, 2010	7.32	1.40	0.00	5.77	0.50	0.00	18.74
January 30, 2010	8.29	1.37	0.00	6.87	0.50	0.00	17.04
January 31, 2010	8.16	1.40	0.00	6.66	0.50	0.00	15.52
February 1, 2010	8.51	1.38	0.00	7.05	0.50	0.00	14.36
February 2, 2010	8.41	1.36	1.57	5.35	0.50	0.36	14.04
February 3, 2010	8.36	1.20	0.00	7.05	0.50	0.00	13.42
February 4, 2010	8.39	1.54	1.01	5.79	0.50	0.20	13.08
February 5, 2010	8.37	1.19	1.98	5.09	0.50	1.42	16.01
February 6, 2010	7.68	1.52	0.00	5.98	0.50	0.00	19.15
February 7, 2010	8.61	1.28	0.00	7.28	0.50	0.00	19.14
February 8, 2010	8.56	1.37	0.88	6.09	0.50	0.45	20.13
February 9, 2010	8.49	1.44	0.85	6.18	0.50	0.28	21.87
February 10, 2010	8.58	1.60	0.00	6.91	0.50	0.00	22.74
February 11, 2010	8.38	1.34	0.00	6.95	0.50	0.00	23.45
February 12, 2010	8.28	1.59	0.00	6.49	0.50	0.00	25.10
February 13, 2010	8.26	1.49	0.00	6.73	0.50	0.00	25.92
February 14, 2010	8.03	1.44	0.00	6.58	0.50	0.00	25.92
February 15, 2010	7.78	1.48	0.00	6.43	0.50	0.00	25.92
February 16, 2010	8.49	1.36	0.15	6.57	0.50	0.00	26.03
February 17, 2010	8.50	1.46	0.10	6.79	0.50	0.00	25.15
February 18, 2010	8.34	1.64	0.64	5.96	0.50	0.00	23.59
February 19, 2010	8.19	1.61	0.00	6.43	0.50	0.00	22.08

February 20, 2010	8.23	1.48	0.00	6.69	0.50	0.00	20.79
February 21, 2010	8.54	1.49	0.00	7.03	0.50	0.00	19.35
February 22, 2010	8.43	1.66	0.00	6.82	0.50	0.00	17.47
February 23, 2010	8.62	1.53	4.34	2.67	0.50	2.82	20.01
February 24, 2010	8.73	1.49	1.25	5.62	0.50	0.00	26.55
February 25, 2010	8.36	1.65	0.00	6.57	0.50	0.00	25.25
February 26, 2010	8.30	1.65	0.00	6.66	0.50	0.00	23.35
February 27, 2010	8.29	1.41	0.00	6.77	0.50	0.00	20.68
February 28, 2010	8.50	1.68	0.64	6.30	0.50	0.00	17.53
March 1, 2010	8.71	1.56	0.78	6.27	0.50	0.00	18.57
March 2, 2010	8.65	1.57	0.00	6.98	0.50	0.00	18.30
March 3, 2010	8.09	1.58	0.00	6.43	0.50	0.00	18.56
March 4, 2010	8.41	1.72	0.00	6.59	0.50	0.00	19.19
March 5, 2010	8.36	1.40	1.28	5.61	0.50	0.00	17.30
March 6, 2010	8.06	1.47	0.00	6.51	0.50	0.00	18.51
March 7, 2010	8.69	1.52	1.48	5.68	0.50	0.00	17.52
March 8, 2010	8.37	1.65	0.53	6.30	0.50	0.00	17.16
March 9, 2010	8.26	1.49	1.87	4.62	0.50	0.67	19.46
March 10, 2010	8.40	1.54	0.00	6.82	0.50	0.00	18.64
March 11, 2010	8.48	1.42	1.38	5.61	0.50	0.26	17.32
March 12, 2010	8.49	1.67	0.00	6.75	0.50	0.00	18.27
March 13, 2010	8.24	1.40	0.13	6.69	0.50	0.00	16.92
March 14, 2010	8.05	1.66	0.13	6.69	0.50	0.00	18.29
March 15, 2010	7.95	1.29	0.00	6.66	0.50	0.00	17.67
March 16, 2010	8.14	1.57	1.68	4.84	0.50	0.62	17.29
March 17, 2010	8.26	1.50	0.00	6.78	0.50	0.00	17.63
March 18, 2010	8.64	1.55	1.98	4.98	0.50	0.75	17.93
March 19, 2010	8.31	1.24	1.25	5.83	0.50	0.14	17.97
March 20, 2010	8.09	1.54	1.33	5.17	0.50	0.11	18.06
March 21, 2010	7.87	1.35	1.36	5.01	0.50	0.08	17.18
March 22, 2010	8.35	1.38	2.67	4.06	2.00	1.42	16.97
March 23, 2010	8.27	1.61	1.49	5.08	2.00	0.39	17.62
March 24, 2010	7.95	1.56	2.81	3.53	2.00	0.00	15.62
March 25, 2010	7.93	1.55	3.50	2.83	2.00	1.93	16.90

March 26, 2010	8.02	1.46	4.45	1.99	2.00	2.69	18.92
March 27, 2010	7.60	1.72	3.71	2.12	2.00	2.16	21.17
March 28, 2010	7.88	1.48	0.00	6.56	2.00	0.00	22.12
March 29, 2010	8.10	1.50	2.97	3.10	2.00	1.85	17.03
March 30, 2010	7.83	1.67	5.16	1.45	2.00	3.71	16.80
March 31, 2010	7.92	1.78	1.89	3.75	2.00	0.78	22.24
April 1, 2010	8.33	1.72	0.00	6.54	2.00	0.00	20.39
April 2, 2010	8.32	1.74	0.00	6.70	2.00	0.00	17.40
April 3, 2010	8.34	1.76	3.23	3.20	2.00	2.37	19.18
April 4, 2010	8.27	1.72	0.00	6.67	2.00	0.00	21.29
April 5, 2010	8.47	1.70	0.00	6.71	2.00	0.00	19.56
April 6, 2010	8.42	1.71	2.60	3.91	2.00	1.90	17.91
April 7, 2010	8.38	1.73	1.57	5.16	2.00	0.77	22.43
April 8, 2010	8.63	1.66	0.22	6.61	2.00	0.00	18.43
April 9, 2010	8.68	1.96	5.58	1.07	2.00	4.54	16.48
April 10, 2010	8.34	1.88	3.04	3.47	2.00	2.36	22.09
April 11, 2010	7.83	1.86	0.00	5.98	2.00	0.00	21.79
April 12, 2010	8.86	1.87	4.58	1.94	2.00	3.87	17.67
April 13, 2010	8.64	1.90	2.55	4.16	2.00	1.84	21.61
April 14, 2010	8.68	1.83	0.00	6.86	2.00	0.00	21.82
April 15, 2010	8.37	1.67	2.31	4.61	2.00	1.51	20.13
April 16, 2010	8.53	1.57	0.00	6.78	2.00	0.00	20.76
April 17, 2010	7.97	1.47	0.00	6.57	2.00	0.00	17.48
April 18, 2010	8.31	1.57	2.82	3.50	2.00	2.17	20.44
April 19, 2010	8.55	1.56	0.00	7.03	2.00	0.00	19.02
April 20, 2010	8.65	1.59	4.95	2.06	2.00	4.19	16.69
April 21, 2010	8.73	1.63	1.53	5.21	2.00	0.89	22.68
April 22, 2010	8.37	1.55	0.00	6.67	2.00	0.00	21.77
April 23, 2010	8.42	1.55	0.00	6.75	2.00	0.00	19.54
April 24, 2010	8.23	1.45	0.00	6.94	2.00	0.00	18.58
April 25, 2010	8.00	1.62	0.00	6.26	2.00	0.00	18.15
April 26, 2010	8.73	1.54	2.86	4.21	2.00	2.19	18.08
April 27, 2010	8.50	1.55	1.03	5.95	2.00	0.15	22.33
April 28, 2010	8.63	1.65	0.00	6.58	2.00	0.00	18.74

April 29, 2010	8.29	1.71	3.76	2.71	2.00	2.89	19.45
April 30, 2010	8.36	1.64	3.89	2.76	2.00	2.86	17.82
May 1, 2010	8.18	1.70	1.17	5.32	2.00	0.65	22.62
May 2, 2010	8.12	1.47	0.05	6.48	2.00	0.00	21.42
May 3, 2010	8.69	1.65	3.57	3.38	2.00	2.85	18.71
May 4, 2010	8.36	1.78	5.21	1.47	2.00	4.40	19.56
May 5, 2010	8.29	1.56	5.35	1.23	2.00	4.46	14.12
May 6, 2010	8.62	1.49	5.64	1.41	2.00	4.69	10.61
May 7, 2010	8.55	1.56	6.16	0.75	2.00	5.34	No Data
May 8, 2010	8.24	1.61	4.05	2.75	2.00	3.28	26.07
May 9, 2010	7.22	1.13	0.84	5.98	2.00	0.13	25.02
May 10, 2010	7.91	1.42	0.45	6.05	4.00	0.00	22.12
May 11, 2010	8.15	1.65	5.86	0.54	4.00	5.01	22.96
May 12, 2010	8.54	1.69	6.09	0.65	4.00	5.34	20.50
May 13, 2010	8.53	1.77	6.70	0.03	4.00	5.75	17.99
May 14, 2010	8.35	1.81	4.32	2.32	4.00	3.46	22.88
May 15, 2010	8.18	1.63	5.61	0.90	4.00	4.81	18.87
May 16, 2010	8.15	1.70	2.79	3.29	4.00	2.17	26.26
May 17, 2010	8.49	1.60	0.90	5.97	4.00	0.24	23.94
May 18, 2010	8.08	1.69	3.75	2.61	4.00	2.94	26.00
May 19, 2010	8.47	1.56	5.29	1.36	4.00	4.54	22.61
May 20, 2010	8.19	1.67	6.39	0.15	4.00	5.38	19.74
May 21, 2010	8.27	1.74	6.32	0.09	4.00	5.34	15.30
May 22, 2010	8.15	1.69	6.41	0.06	4.00	5.63	17.12
May 23, 2010	8.15	1.62	2.63	3.95	4.00	2.01	26.79
May 24, 2010	8.41	1.72	1.93	4.48	4.00	1.20	26.01
May 25, 2010	8.21	1.64	5.31	1.30	4.00	4.40	24.66
May 26, 2010	8.21	1.79	6.44	0.11	4.00	5.60	22.14
May 27, 2010	8.40	1.63	6.71	0.08	4.00	5.77	18.77
May 28, 2010	8.11	1.56	6.57	0.07	4.00	5.62	16.54
May 29, 2010	8.08	1.65	3.70	2.88	4.00	3.12	25.45
May 30, 2010	7.45	1.79	0.00	5.16	4.00	0.00	25.54
May 31, 2010	8.04	1.47	2.93	3.74	4.00	2.35	25.94
June 1, 2010	8.21	1.72	4.69	1.99	4.00	3.94	24.15

June 2, 2010	8.26	1.67	5.93	0.14	4.00	5.00	20.81
June 3, 2010	8.29	1.69	6.57	0.08	4.00	5.57	16.55
June 4, 2010	8.20	1.55	6.46	0.09	4.00	5.46	12.18
June 5, 2010	8.15	1.45	6.79	0.07	4.00	5.92	11.67
June 6, 2010	7.84	1.44	3.82	2.34	4.00	6.65	20.95
June 7, 2010	8.39	1.55	6.47	0.42	5.00	7.54	25.59
June 8, 2010	8.26	1.48	6.88	0.05	5.00	6.55	23.37
June 9, 2010	8.49	1.74	6.38	0.10	5.00	5.58	21.50
June 10, 2010	8.30	1.62	4.90	1.79	5.00	4.03	25.52
June 11, 2010	8.27	1.78	6.51	0.07	5.00	5.48	19.92
June 12, 2010	7.98	1.69	2.76	3.44	5.00	2.17	25.88
June 13, 2010	7.81	1.58	5.47	1.21	5.00	4.72	23.86
June 14, 2010	8.38	1.62	0.88	5.23	5.00	0.27	23.10
June 15, 2010	8.54	1.80	5.59	1.49	5.00	4.81	12.75
June 16, 2010	8.48	1.59	6.14	0.49	5.00	5.36	10.99
June 17, 2010	8.47	1.73	6.46	0.07	5.00	6.02	11.33
June 18, 2010	8.36	1.83	6.41	0.07	5.00	5.47	12.00
June 19, 2010	7.94	1.54	6.36	0.01	5.00	5.59	15.10
June 20, 2010	7.59	1.72	4.92	1.49	5.00	4.09	23.30
June 21, 2010	8.24	1.67	4.78	1.01	5.00	4.09	21.33
June 22, 2010	8.25	1.75	6.71	0.10	5.00	5.91	18.60
June 23, 2010	8.22	1.67	6.24	0.06	5.00	5.33	17.09
June 24, 2010	8.25	1.77	5.57	0.90	5.00	4.75	18.54
June 25, 2010	7.94	1.64	6.15	0.03	5.00	5.23	16.71
June 26, 2010	8.14	1.87	6.24	0.07	5.00	5.36	14.18
June 27, 2010	7.84	1.56	5.98	0.07	5.00	5.27	14.47
June 28, 2010	8.06	1.80	4.73	1.89	5.00	3.87	24.19
June 29, 2010	8.41	1.90	5.99	0.21	5.00	5.32	19.80
June 30, 2010	8.07	1.63	6.35	0.07	5.00	5.45	15.66

FY 11	SBWRP INFLUENT	BLENDED SLUDGE	RW PRODUCED	OUTFALL FLOW	OTAY DEMAND	RW OTAY	OTAY TANK LEVEL MIN 15/ MAX 28
Date	MGD	MGD	MGD	MGD	MGD	MGD	FT
Average=	8.29	1.48	3.26	3.49	3.48	2.63	N/A
July 1, 2010	8.31	1.71	6.63	0.09	5.00	5.68	13.24
July 2, 2010	8.45	1.80	6.43	0.07	5.00	5.50	12.97
July 3, 2010	7.84	1.80	6.09	0.08	5.00	5.09	12.75
July 4, 2010	7.33	1.79	4.63	1.41	5.00	3.92	23.62
July 5, 2010	7.99	1.64	4.58	0.93	5.00	3.85	22.35
July 6, 2010	8.29	1.86	6.60	0.11	5.00	5.40	19.73
July 7, 2010	8.35	1.64	3.64	2.90	5.00	2.88	25.66
July 8, 2010	8.34	1.79	5.66	0.61	5.00	4.81	19.98
July 9, 2010	8.28	1.84	6.09	0.14	5.00	5.12	14.29
July 10, 2010	8.00	1.84	6.33	0.05	5.00	5.48	13.12
July 11, 2010	7.73	1.62	4.46	1.48	5.00	3.74	24.10
July 12, 2010	8.07	1.53	5.17	1.41	5.00	4.33	23.13
July 13, 2010	8.40	1.80	6.39	0.07	5.00	4.18	21.80
July 14, 2010	8.34	1.60	6.70	0.10	5.00	6.11	21.59
July 15, 2010	8.35	1.77	6.20	0.15	5.00	5.25	22.48
July 16, 2010	8.37	1.75	6.55	0.10	5.00	5.54	17.64
July 17, 2010	8.14	1.91	6.30	0.06	5.00	5.45	19.33
July 18, 2010	8.07	1.76	2.08	3.95	5.00	1.62	27.05
July 19, 2010	8.06	1.81	4.62	1.85	5.00	3.73	23.62
July 20, 2010	8.56	1.89	6.19	0.06	5.00	5.75	19.79
July 21, 2010	8.51	1.85	6.53	0.08	5.00	5.86	17.77
July 22, 2010	8.54	1.96	6.48	0.07	5.00	5.97	16.01
July 23, 2010	8.43	2.00	6.20	0.23	5.00	5.26	18.59
July 24, 2010	7.81	1.99	5.02	0.63	5.00	4.64	22.29
July 25, 2010	8.09	1.78	2.16	4.24	5.00	1.99	24.77
July 26, 2010	8.67	1.51	5.19	1.90	5.00	4.07	18.04
July 27, 2010	8.42	1.60	4.94	2.04	5.00	4.43	18.47
July 28, 2010	8.54	1.80	4.89	1.48	5.00	4.05	16.62
July 29, 2010	8.37	1.86	4.83	1.59	5.00	4.08	10.03
July 30, 2010	8.35	1.86	5.38	1.15	5.00	4.64	10.33

July 31, 2010	7.81	1.93	5.33	0.53	5.00	4.43	9.07
August 1, 2010	8.05	1.82	5.53	0.82	5.00	4.92	15.75
August 2, 2010	8.40	1.82	5.57	0.84	5.00	5.02	18.19
August 3, 2010	8.17	1.80	5.59	0.50	5.00	4.69	14.56
August 4, 2010	7.79	1.81	4.74	1.23	5.00	3.89	15.32
August 5, 2010	8.30	1.74	5.66	0.78	5.00	4.82	9.94
August 6, 2010	8.22	1.65	5.73	0.86	5.00	4.73	8.86
August 7, 2010	7.71	1.91	5.41	0.41	5.00	4.91	9.32
August 8, 2010	7.94	1.69	5.62	0.63	5.00	4.95	12.53
August 9, 2010	8.39	1.56	5.86	0.65	5.00	5.02	18.88
August 10, 2010	8.24	1.56	5.82	0.78	5.00	4.97	18.06
August 11, 2010	8.35	1.53	5.96	0.69	5.00	5.17	13.68
August 12, 2010	7.66	1.69	5.55	0.39	5.00	4.70	11.78
August 13, 2010	8.15	1.53	5.61	0.95	5.00	4.92	9.94
August 14, 2010	7.87	1.70	5.76	0.30	5.00	4.81	9.61
August 15, 2010	7.98	1.60	5.82	0.71	5.00	5.13	17.07
August 16, 2010	8.43	1.54	3.50	3.08	5.00	2.84	19.17
August 17, 2010	8.68	1.57	5.42	1.58	5.00	4.60	9.64
August 18, 2010	8.38	1.70	6.15	0.33	5.00	5.06	9.49
August 19, 2010	8.44	1.69	6.92	0.05	5.00	5.93	9.60
August 20, 2010	8.60	1.47	6.79	0.07	5.00	5.83	9.71
August 21, 2010	8.03	1.57	6.55	0.05	5.00	5.45	8.94
August 22, 2010	8.07	1.55	6.33	0.06	5.00	5.51	10.66
August 23, 2010	8.50	1.63	6.75	0.05	5.00	5.83	14.94
August 24, 2010	8.42	1.46	7.03	0.06	5.00	6.17	16.97
August 25, 2010	8.55	1.65	6.49	0.07	5.00	5.72	15.57
August 26, 2010	8.43	1.51	6.79	0.05	5.00	6.11	13.98
August 27, 2010	8.49	1.42	7.09	0.11	5.00	6.19	11.59
August 28, 2010	7.91	1.61	5.71	0.37	5.00	4.81	14.15
August 29, 2010	8.12	1.69	4.66	1.67	5.00	3.96	24.04
August 30, 2010	8.43	1.62	4.47	2.22	5.50	3.73	24.76
August 31, 2010	7.65	1.43	6.45	0.04	5.50	5.60	23.04
September 1, 2010	8.40	1.70	6.47	0.09	5.50	5.50	19.49
September 2, 2010	8.12	1.66	6.19	0.05	5.50	5.41	16.19

September 3, 2010	8.07	1.68	5.46	0.96	5.50	4.61	15.90
September 4, 2010	7.99	1.57	6.23	0.04	5.50	5.24	13.38
September 5, 2010	7.50	1.75	5.64	0.47	5.00	5.00	22.95
September 6, 2010	7.88	1.67	1.67	3.97	5.50	1.05	24.06
September 7, 2010	8.27	1.62	6.69	0.08	5.50	5.85	19.49
September 8, 2010	8.04	1.70	6.25	0.07	5.50	5.34	16.51
September 9, 2010	8.16	1.53	6.43	0.08	5.50	5.68	18.40
September 10, 2010	8.32	1.79	6.48	0.06	5.50	5.59	20.77
September 11, 2010	7.83	1.73	5.87	0.05	5.50	5.05	23.74
September 12, 2010	7.93	1.76	0.09	5.94	5.50	0.00	26.08
September 13, 2010	8.20	1.64	5.93	0.58	5.00	5.02	20.78
September 14, 2010	7.97	1.80	6.50	0.09	5.00	5.69	16.80
September 15, 2010	8.24	1.67	5.98	0.07	5.00	5.24	14.81
September 16, 2010	8.16	1.70	6.42	0.08	5.00	5.53	19.61
September 17, 2010	8.32	1.68	6.56	0.08	5.00	5.60	20.16
September 18, 2010	7.92	1.74	6.15	0.05	5.00	5.35	19.55
September 19, 2010	7.83	1.50	0.97	5.05	5.00	0.37	26.17
September 20, 2010	8.27	1.65	6.08	0.88	5.00	5.25	22.09
September 21, 2010	8.25	1.40	6.75	0.06	5.00	6.04	20.74
September 22, 2010	8.18	1.58	2.66	3.55	5.00	2.02	25.87
September 23, 2010	7.84	1.57	6.18	0.08	5.00	5.42	19.77
September 24, 2010	8.23	1.54	6.72	0.06	5.00	5.90	18.61
September 25, 2010	7.87	1.42	6.14	0.13	5.00	5.40	23.15
September 26, 2010	7.71	1.53	1.21	4.91	5.00	0.58	25.17
September 27, 2010	8.36	1.49	4.20	2.78	5.50	3.61	26.07
September 28, 2010	8.43	1.77	6.33	0.11	5.50	5.48	19.37
September 29, 2010	8.21	1.63	6.37	0.06	5.50	5.72	16.50
September 30, 2010	8.21	1.48	5.10	1.54	5.50	4.23	17.15
October 1, 2010	8.10	1.57	6.40	0.03	5.50	5.42	20.83
October 2, 2010	7.82	1.47	2.15	4.27	5.50	1.42	26.87
October 3, 2010	7.68	1.54	0.00	6.38	5.50	0.00	24.88
October 4, 2010	8.08	1.44	5.63	0.71	5.50	4.82	24.16
October 5, 2010	8.06	1.31	5.26	1.59	5.50	4.47	25.44
October 6, 2010	8.02	1.33	0.00	6.24	5.50	0.00	25.05

October 7, 2010	8.11	1.38	2.59	4.39	5.50	1.87	26.31
October 8, 2010	8.02	1.53	0.53	5.79	5.50	0.00	24.14
October 9, 2010	7.46	1.25	6.34	0.06	5.50	5.67	22.63
October 10, 2010	7.73	1.55	0.87	5.52	5.50	0.35	26.95
October 11, 2010	8.19	1.20	5.06	1.56	5.00	4.43	23.99
October 12, 2010	8.25	1.51	5.46	1.13	5.00	4.50	22.66
October 13, 2010	8.02	1.38	6.47	0.10	5.00	5.63	22.75
October 14, 2010	8.21	1.50	1.68	5.05	5.00	1.04	27.22
October 15, 2010	7.78	1.34	5.29	1.31	5.00	4.73	23.74
October 16, 2010	7.66	1.40	4.22	1.97	5.00	3.52	22.27
October 17, 2010	8.14	1.36	0.84	5.72	5.00	0.46	27.34
October 18, 2010	8.18	1.41	0.22	6.64	4.00	0.00	24.06
October 19, 2010	8.42	1.43	2.39	4.37	4.00	1.91	26.96
October 20, 2010	8.65	1.55	0.00	7.13	4.00	0.00	26.57
October 21, 2010	8.38	1.53	1.44	5.41	4.00	0.71	24.15
October 22, 2010	7.82	1.41	0.73	5.59	4.00	0.02	27.17
October 23, 2010	7.78	1.51	0.00	6.12	4.00	0.00	25.67
October 24, 2010	8.07	1.43	1.49	5.04	4.00	1.02	24.45
October 25, 2010	8.55	1.31	0.53	6.63	4.00	0.20	27.51
October 26, 2010	8.64	1.40	0.00	7.28	4.00	0.00	26.73
October 27, 2010	8.47	1.51	0.00	6.92	4.00	0.00	25.41
October 28, 2010	8.62	1.32	1.65	5.53	4.00	1.27	25.59
October 29, 2010	8.48	1.42	0.00	7.23	4.00	0.00	26.05
October 30, 2010	7.68	1.55	0.00	5.78	4.00	0.00	24.12
October 31, 2010	7.85	1.45	2.05	4.27	4.00	1.62	25.21
November 1, 2010	8.39	1.40	0.00	6.90	No Order	0.00	26.18
November 2, 2010	8.36	1.51	0.90	6.01	No Order	0.36	23.97
November 3, 2010	8.70	1.35	3.60	3.59	No Order	2.71	25.58
November 4, 2010	8.42	1.32	3.58	3.51	No Order	2.73	19.74
November 5, 2010	8.43	1.48	3.59	3.40	No Order	2.80	10.69
November 6, 2010	8.14	1.53	6.41	0.06	No Order	5.86	8.59
November 7, 2010	7.99	1.34	6.52	0.07	No Order	6.13	10.78
November 8, 2010	8.54	1.50	5.05	1.84	No Order	4.61	23.33
November 9, 2010	8.58	1.46	0.26	6.82	No Order	0.00	25.05

November 10, 2010	8.03	1.45	5.53	0.90	No Order	4.79	25.00
November 11, 2010	8.08	1.45	5.58	0.83	No Order	4.93	26.00
November 12, 2010	8.31	1.48	5.72	1.13	No Order	5.16	23.09
November 13, 2010	8.01	1.32	4.55	2.04	No Order	3.65	21.40
November 14, 2010	8.02	1.31	2.10	4.51	No Order	1.24	26.62
November 15, 2010	8.50	1.53	4.47	2.49	4.00	3.89	20.27
November 16, 2010	8.51	1.52	5.92	0.86	4.00	5.12	19.90
November 17, 2010	8.00	1.65	3.50	3.00	4.00	2.85	24.93
November 18, 2010	8.44	1.65	4.03	2.52	4.00	3.57	20.03
November 19, 2010	8.14	1.60	4.44	2.10	4.00	3.75	22.23
November 20, 2010	7.96	1.27	0.53	5.84	4.00	0.00	27.06
November 21, 2010	7.89	1.31	0.06	6.63	4.00	0.00	24.09
November 22, 2010	7.89	1.44	3.21	3.13	4.00	2.40	24.85
November 23, 2010	8.41	1.49	0.00	6.72	4.00	0.00	27.36
November 24, 2010	8.25	1.30	0.00	6.94	4.00	0.00	24.53
November 25, 2010	7.98	1.46	2.38	4.01	4.00	2.02	25.73
November 26, 2010	7.97	1.39	0.00	6.42	4.00	0.00	26.20
November 27, 2010	7.82	1.34	0.00	6.39	4.00	0.00	25.17
November 28, 2010	7.98	1.38	1.99	4.81	4.00	1.67	24.88
November 29, 2010	8.67	1.38	0.00	6.86	3.00	0.00	27.04
November 30, 2010	8.37	1.55	0.22	6.72	3.00	0.00	24.25
December 1, 2010	8.66	1.41	1.75	5.43	3.00	0.87	24.28
December 2, 2010	8.52	1.37	5.52	1.31	3.00	4.59	24.66
December 3, 2010	8.36	1.61	1.37	5.66	3.00	0.54	27.02
December 4, 2010	8.06	1.38	2.78	3.51	3.00	1.90	24.08
December 5, 2010	8.07	1.41	0.77	5.84	3.00	0.00	27.01
December 6, 2010	8.69	1.41	1.87	5.16	3.00	1.00	24.06
December 7, 2010	8.40	1.58	5.46	1.46	3.00	4.96	21.10
December 8, 2010	8.57	1.61	5.58	1.34	3.00	5.57	18.91
December 9, 2010	8.53	1.45	3.32	3.45	3.00	3.32	25.04
December 10, 2010	8.26	1.44	0.00	6.86	3.00	0.03	24.27
December 11, 2010	7.74	1.34	5.31	1.08	3.00	5.28	21.39
December 12, 2010	8.02	1.51	4.58	1.76	3.00	4.56	23.17
December 13, 2010	8.53	1.20	0.00	7.08	3.00	0.02	26.32

December 14, 2010	8.23	1.57	2.04	4.86	3.00	1.80	24.66
December 15, 2010	8.47	1.35	0.28	6.53	3.00	0.00	26.72
December 16, 2010	8.21	1.66	0.00	6.76	3.00	0.00	24.98
December 17, 2010	8.45	1.56	0.00	6.72	3.00	0.00	24.61
December 18, 2010	8.15	1.41	0.00	6.63	3.00	0.00	23.49
December 19, 2010	7.66	1.51	0.00	6.48	3.00	0.00	23.47
December 20, 2010	8.34	1.50	2.18	4.34	3.00	1.90	24.08
December 21, 2010	8.52	1.31	0.00	7.33	3.00	0.00	27.82
December 22, 2010	9.25	1.58	0.00	6.84	3.00	0.00	27.86
December 23, 2010	8.38	1.51	0.00	7.00	3.00	0.00	22.40
December 24, 2010	8.37	1.38	0.00	6.90	3.00	0.00	18.60
December 25, 2010	7.86	1.36	0.00	6.37	3.00	0.00	17.49
December 26, 2010	8.44	1.31	0.00	6.92	3.00	0.00	17.48
December 27, 2010	8.13	1.42	1.55	5.40	No Order	1.31	18.72
December 28, 2010	8.56	1.31	2.54	4.56	No Order	2.26	25.57
December 29, 2010	8.49	1.23	0.00	7.19	No Order	0.00	27.80
December 30, 2010	8.62	1.43	0.00	7.06	No Order	0.00	27.79
December 31, 2010	8.49	1.30	0.00	7.18	No Order	0.00	27.78
January 1, 2011	7.91	1.39	0.00	6.69	No Order	0.00	27.78
January 2, 2011	7.92	1.38	0.00	6.49	No Order	0.00	27.76
January 3, 2011	8.17	1.11	0.00	7.24	No Order	0.00	27.75
January 4, 2011	8.51	1.43	0.00	7.03	No Order	0.00	27.74
January 5, 2011	8.44	1.23	0.00	7.14	No Order	0.00	27.73
January 6, 2011	8.56	1.23	0.00	7.14	No Order	0.00	27.73
January 7, 2011	8.52	1.06	0.00	7.34	No Order	0.00	27.72
January 8, 2011	8.21	1.37	0.00	6.60	No Order	0.00	27.71
January 9, 2011	8.19	1.10	0.00	7.01	No Order	0.00	27.70
January 10, 2011	8.31	1.23	0.00	7.15	No Order	0.00	27.69
January 11, 2011	8.70	1.24	0.00	7.19	No Order	0.00	27.69
January 12, 2011	8.43	1.24	0.00	7.18	No Order	0.00	27.68
January 13, 2011	8.55	1.06	0.00	7.36	No Order	0.00	27.57
January 14, 2011	8.63	1.31	0.00	7.15	No Order	0.00	27.42
January 15, 2011	8.01	1.36	0.00	6.53	No Order	0.00	27.41
January 16, 2011	7.96	1.30	0.00	6.78	No Order	0.00	27.39

January 17, 2011	8.39	1.27	0.00	6.74	0.50	0.00	26.51
January 18, 2011	8.45	1.19	0.00	7.26	0.50	0.00	23.84
January 19, 2011	8.62	1.36	0.00	7.07	0.50	0.00	22.27
January 20, 2011	8.41	1.33	3.04	3.92	0.50	2.67	22.32
January 21, 2011	8.27	1.45	4.64	2.08	0.50	4.13	25.12
January 22, 2011	8.27	1.45	2.09	4.66	0.50	1.78	24.98
January 23, 2011	8.22	1.45	1.84	4.80	0.50	1.55	26.88
January 24, 2011	8.31	1.39	0.00	6.91	1.00	0.00	26.45
January 25, 2011	8.54	1.51	4.14	2.86	1.00	2.94	24.16
January 26, 2011	8.56	1.50	0.66	6.27	1.00	0.00	27.11
January 27, 2011	8.38	1.50	0.00	6.64	1.00	0.00	24.57
January 28, 2011	8.26	1.49	4.24	2.47	1.00	3.77	17.84
January 29, 2011	8.10	1.60	5.28	1.26	1.00	4.74	14.18
January 30, 2011	8.06	1.86	5.16	1.11	1.00	4.66	14.77
January 31, 2011	8.60	1.62	0.25	6.49	1.00	0.12	20.17
February 1, 2011	8.50	1.63	2.30	4.63	1.00	2.01	22.03
February 2, 2011	8.41	1.40	0.00	6.88	1.00	0.00	23.82
February 3, 2011	8.58	1.44	0.00	6.92	1.00	0.00	21.63
February 4, 2011	8.38	1.49	0.00	7.06	1.00	0.00	19.71
February 5, 2011	8.19	1.25	0.61	5.99	1.00	0.45	19.68
February 6, 2011	7.89	1.16	0.00	6.76	1.00	0.00	9.92
February 7, 2011	8.63	1.55	3.46	3.46	3.00	2.83	9.46
February 8, 2011	8.29	1.37	5.26	1.88	3.00	4.09	15.99
February 9, 2011	8.50	1.41	5.34	1.47	3.00	4.04	12.55
February 10, 2011	8.52	1.48	5.78	1.23	3.00	4.47	18.51
February 11, 2011	8.40	1.55	2.58	4.27	3.00	1.43	26.74
February 12, 2011	8.22	1.46	0.00	6.83	3.00	0.00	25.67
February 13, 2011	8.05	1.44	0.00	6.41	3.00	0.00	21.62
February 14, 2011	8.29	1.43	3.73	3.28	2.00	2.50	22.05
February 15, 2011	8.63	1.42	4.49	2.50	2.00	3.20	22.12
February 16, 2011	8.41	1.38	1.11	5.94	2.00	0.10	26.95
February 17, 2011	8.65	1.20	0.18	7.09	2.00	0.00	24.15
February 18, 2011	8.13	1.34	2.30	4.97	2.00	1.35	25.01
February 19, 2011	8.80	1.34	0.28	6.83	2.00	0.00	27.12

February 20, 2011	8.17	1.18	0.00	6.97	2.00	0.00	25.81
February 21, 2011	8.66	1.41	0.00	6.81	2.00	0.00	22.81
February 22, 2011	8.32	1.17	3.29	3.92	2.00	2.16	23.34
February 23, 2011	8.52	1.32	0.36	6.77	2.00	0.00	27.32
February 24, 2011	8.57	1.07	0.00	7.23	2.00	0.00	27.06
February 25, 2011	8.15	1.27	0.00	6.98	2.00	0.00	27.06
February 26, 2011	8.06	1.27	0.00	6.67	2.00	0.00	27.06
February 27, 2011	8.41	1.27	0.00	7.14	2.00	0.00	27.05
February 28, 2011	8.52	1.27	0.00	7.15	0.00	0.00	27.01
March 1, 2011	8.44	1.27	0.51	6.59	0.00	0.00	26.35
March 2, 2011	8.65	1.39	0.43	6.76	0.00	0.00	26.86
March 3, 2011	8.36	1.28	0.00	7.05	0.00	0.00	27.91
March 4, 2011	7.78	1.11	0.00	6.28	0.00	0.00	27.64
March 5, 2011	8.05	1.28	0.00	6.43	0.00	0.00	26.00
March 6, 2011	8.32	1.19	0.00	7.13	0.00	0.00	24.12
March 7, 2011	8.52	1.30	0.56	6.57	0.00	0.00	23.28
March 8, 2011	8.61	1.31	0.00	7.33	0.00	0.00	21.90
March 9, 2011	8.49	1.36	0.00	7.07	0.00	0.00	20.12
March 10, 2011	8.73	1.21	3.14	4.29	0.00	2.20	20.95
March 11, 2011	8.50	1.33	1.09	6.08	0.00	0.34	25.82
March 12, 2011	8.42	1.22	0.27	7.09	0.00	0.00	24.01
March 13, 2011	7.93	1.34	0.27	7.09	0.00	0.00	25.90
March 14, 2011	8.36	1.32	0.00	6.52	1.00	0.00	26.09
March 15, 2011	8.47	1.26	1.26	5.87	1.00	0.42	23.69
March 16, 2011	8.07	1.31	0.31	6.77	1.00	0.00	22.63
March 17, 2011	8.69	1.34	0.38	6.82	1.00	0.00	20.10
March 18, 2011	8.33	1.30	1.65	5.37	1.00	0.81	17.72
March 19, 2011	8.34	1.14	3.81	3.26	1.00	2.82	24.31
March 20, 2011	8.27	1.46	0.00	6.84	1.00	0.00	27.06
March 21, 2011	8.65	1.14	0.00	7.48	1.00	0.00	24.07
March 22, 2011	8.59	1.20	0.00	7.28	1.00	0.00	19.85
March 23, 2011	8.55	1.41	0.00	7.13	1.00	0.00	16.76
March 24, 2011	8.20	1.27	2.28	4.68	1.00	1.30	16.33
March 25, 2011	7.72	1.28	3.13	3.24	1.00	1.98	21.09

March 26, 2011	8.25	1.33	2.23	4.64	1.00	1.16	26.18
March 27, 2011	8.12	1.20	0.00	6.91	1.00	0.00	26.20
March 28, 2011	8.61	1.23	0.84	6.50	1.00	0.00	24.74
March 29, 2011	8.57	1.24	1.00	6.27	1.00	0.00	24.28
March 30, 2011	8.76	1.14	0.67	6.75	1.00	0.00	23.74
March 31, 2011	8.43	1.26	2.18	4.89	1.00	1.28	22.98
April 1, 2011	8.36	1.43	3.15	3.72	1.00	2.05	25.60
April 2, 2011	8.15	1.14	2.26	5.07	1.00	1.42	27.13
April 3, 2011	8.30	1.55	0.00	6.30	1.00	0.00	26.08
April 4, 2011	8.56	1.12	1.66	5.71	1.00	0.75	23.88
April 5, 2011	8.54	1.15	2.21	5.20	1.00	1.15	20.58
April 6, 2011	8.68	1.32	2.03	5.18	1.00	1.22	16.51
April 7, 2011	8.60	1.18	3.87	3.54	1.00	2.80	16.52
April 8, 2011	8.72	1.42	4.02	3.11	1.00	2.90	22.28
April 9, 2011	8.30	1.33	2.12	5.12	1.00	1.26	24.75
April 10, 2011	8.21	1.40	2.00	4.70	1.00	1.09	26.33
April 11, 2011	8.26	1.44	2.57	3.69	2.00	1.73	25.15
April 12, 2011	8.38	1.24	0.00	7.31	2.00	0.00	26.45
April 13, 2011	8.68	1.33	1.51	5.73	2.00	0.99	25.72
April 14, 2011	8.62	1.36	0.04	7.04	2.00	0.00	24.66
April 15, 2011	8.54	1.24	2.73	4.53	2.00	1.80	25.64
April 16, 2011	8.42	1.43	3.81	3.18	2.00	2.82	18.36
April 17, 2011	8.13	1.30	4.19	2.27	2.00	3.11	16.45
April 18, 2011	8.39	1.33	3.88	3.28	2.00	2.83	20.30
April 19, 2011	8.23	1.19	4.24	2.35	2.00	3.10	21.29
April 20, 2011	8.26	1.41	4.05	2.98	2.00	2.99	23.60
April 21, 2011	8.50	1.16	3.73	3.50	2.00	2.53	26.01
April 22, 2011	8.38	1.42	3.12	3.81	2.00	2.03	23.67
April 23, 2011	8.22	1.24	3.95	2.99	2.00	2.88	25.23
April 24, 2011	7.81	1.46	1.23	4.62	2.00	0.35	25.23
April 25, 2011	8.37	1.18	4.27	2.82	3.00	3.24	25.15
April 26, 2011	7.88	1.37	3.07	3.48	3.00	1.99	21.76
April 27, 2011	8.46	1.32	4.87	2.20	3.00	3.65	20.96
April 28, 2011	8.79	1.51	4.82	2.22	3.00	3.61	20.97

April 29, 2011	8.19	1.46	4.92	2.06	3.00	3.84	22.07
April 30, 2011	8.21	1.40	3.80	2.95	3.00	2.57	25.89
May 1, 2011	8.25	1.36	0.00	6.68	3.00	0.00	25.47
May 2, 2011	8.71	1.44	4.60	2.46	3.00	3.32	22.88
May 3, 2011	8.82	1.47	4.84	2.25	3.00	3.65	19.97
May 4, 2011	8.56	1.41	4.93	2.24	3.00	3.73	18.37
May 5, 2011	8.83	1.51	5.25	1.85	3.00	4.14	18.64
May 6, 2011	8.49	1.52	5.64	1.39	3.00	4.46	16.93
May 7, 2011	8.13	1.57	4.40	2.43	3.00	3.37	24.18
May 8, 2011	8.25	1.39	0.00	6.43	3.00	0.00	25.12
May 9, 2011	8.55	1.49	3.28	3.56	4.00	2.23	25.50
May 10, 2011	8.57	1.53	3.63	3.30	4.00	2.51	22.43
May 11, 2011	8.76	1.62	5.12	1.91	4.00	3.96	15.69
May 12, 2011	8.31	1.52	5.29	1.30	4.00	4.33	9.88
May 13, 2011	7.84	1.47	5.56	0.98	4.00	4.52	8.93
May 14, 2011	8.12	1.59	5.59	0.98	4.00	4.52	8.93
May 15, 2011	8.25	1.53	5.53	0.97	4.00	4.45	16.35
May 16, 2011	8.63	1.58	5.11	1.60	4.00	3.90	24.32
May 17, 2011	8.65	1.55	5.12	2.03	4.00	4.05	21.04
May 18, 2011	8.74	1.51	5.91	1.13	4.00	4.65	17.90
May 19, 2011	8.65	1.56	3.31	3.59	4.00	2.41	25.93
May 20, 2011	8.51	1.69	0.40	6.49	4.00	0.00	24.33
May 21, 2011	8.21	1.55	5.43	1.53	4.00	4.45	22.71
May 22, 2011	8.20	1.65	0.61	5.53	4.00	0.00	26.87
May 23, 2011	8.65	1.68	4.89	1.88	4.00	3.71	22.51
May 24, 2011	8.76	1.68	4.45	2.42	4.00	3.43	22.30
May 25, 2011	8.72	1.73	2.83	4.06	4.00	1.91	13.45
May 26, 2011	8.61	1.73	4.43	2.37	4.00	3.41	10.80
May 27, 2011	8.62	1.76	2.86	3.87	4.00	1.97	10.24
May 28, 2011	8.11	1.65	5.61	1.30	4.00	4.38	16.79
May 29, 2011	7.73	1.70	5.34	0.99	4.00	4.01	13.88
May 30, 2011	8.25	1.67	5.57	0.38	4.00	4.52	11.89
May 31, 2011	8.60	1.64	6.85	0.09	4.00	5.68	19.93
June 1, 2011	8.65	1.58	6.84	0.10	4.00	5.55	22.92

June 2, 2011	8.71	1.57	5.48	1.57	4.00	4.42	19.65
June 3, 2011	8.60	1.65	5.15	1.74	4.00	4.12	15.70
June 4, 2011	7.91	1.61	6.85	0.08	4.00	5.67	16.82
June 5, 2011	8.15	1.56	4.57	1.67	4.00	3.64	24.62
June 6, 2011	8.46	1.54	3.83	2.85	4.00	2.87	25.09
June 7, 2011	8.70	1.64	1.28	5.73	4.00	0.33	24.93
June 8, 2011	8.50	1.49	5.53	1.49	4.00	4.21	23.96
June 9, 2011	8.34	1.43	6.51	0.36	4.00	5.28	21.25
June 10, 2011	8.24	1.51	6.40	0.56	4.00	5.30	17.97
June 11, 2011	7.93	1.44	6.65	0.11	4.00	5.38	19.71
June 12, 2011	8.06	1.53	3.34	2.80	4.00	2.35	25.29
June 13, 2011	8.49	1.47	4.95	1.77	5.00	3.89	20.76
June 14, 2011	8.52	1.55	3.52	3.54	5.00	2.57	25.71
June 15, 2011	8.37	1.50	5.35	1.61	5.00	4.25	20.08
June 16, 2011	8.70	1.58	6.61	0.10	5.00	5.50	16.22
June 17, 2011	8.45	1.63	6.96	0.08	5.00	5.83	14.60
June 18, 2011	7.97	1.37	6.71	0.12	5.00	5.62	19.62
June 19, 2011	7.77	1.58	3.68	2.39	5.00	2.73	25.94
June 20, 2011	8.51	1.52	4.19	2.27	5.00	3.37	21.71
June 21, 2011	8.53	1.42	6.98	0.17	5.00	5.71	22.21
June 22, 2011	8.74	1.37	4.81	2.38	5.00	3.86	26.28
June 23, 2011	8.50	1.43	6.03	1.11	5.00	4.97	23.43
June 24, 2011	8.45	1.51	6.92	0.10	5.00	5.86	24.34
June 25, 2011	8.00	1.59	6.53	0.10	5.00	5.44	22.50
June 26, 2011	7.91	1.48	3.85	2.48	5.00	2.96	25.83
June 27, 2011	8.35	1.38	3.10	3.46	5.00	2.21	22.95
June 28, 2011	8.55	1.36	4.26	2.75	5.00	3.36	23.45
June 29, 2011	8.67	1.45	5.91	1.29	5.00	4.88	19.16
June 30, 2011	8.61	1.60	6.89	0.11	5.00	5.92	13.88

FY 12	SBWRP INFLUENT	BLENDED SLUDGE	RW PRODUCED	OUTFALL FLOW	OTAY DEMAND	RW OTAY	OTAY TANK LEVEL MIN 15/ MAX 28
Date	MGD	MGD	MGD	MGD	MGD	MGD	FT
Average=	8.09	1.30	3.38	3.33	2.68	2.70	N/A
July 1, 2011	8.63	1.56	6.90	0.10	5.00	5.80	10.99
July 2, 2011	8.13	1.36	6.76	0.25	5.00	5.69	14.20
July 3, 2011	7.70	1.29	4.87	1.66	5.00	3.95	23.68
July 4, 2011	7.74	1.56	2.08	3.92	5.00	1.38	25.54
July 5, 2011	8.58	1.36	3.94	2.94	5.00	3.18	25.07
July 6, 2011	8.52	1.49	6.17	0.90	5.00	5.15	23.22
July 7, 2011	8.75	1.53	6.20	0.71	5.00	5.33	19.06
July 8, 2011	8.44	1.48	7.03	0.06	5.00	5.91	15.62
July 9, 2011	8.18	1.50	6.76	0.09	5.00	5.61	13.95
July 10, 2011	7.97	1.48	6.23	0.12	5.00	5.14	14.16
July 11, 2011	8.32	1.46	6.49	0.13	5.00	5.40	20.52
July 12, 2011	8.43	1.58	3.74	3.03	5.00	2.78	25.91
July 13, 2011	8.51	1.63	4.95	1.87	5.00	3.95	24.97
July 14, 2011	8.45	1.59	5.90	0.94	5.00	4.81	21.37
July 15, 2011	8.46	1.54	6.72	0.07	5.00	5.60	15.56
July 16, 2011	8.17	1.52	6.68	0.07	5.00	5.51	11.76
July 17, 2011	8.03	1.51	5.99	0.40	5.00	4.74	10.26
July 18, 2011	8.48	1.52	6.53	0.10	6.00	5.44	13.28
July 19, 2011	8.79	1.55	7.00	0.20	6.00	5.93	11.04
July 20, 2011	8.86	1.69	3.44	3.39	6.00	2.57	11.71
July 21, 2011	8.80	1.53	1.30	5.84	6.00	0.31	8.36
July 22, 2011	8.59	1.46	3.63	3.50	6.00	2.66	9.19
July 23, 2011	8.12	1.43	4.91	2.23	6.00	4.09	12.00
July 24, 2011	8.12	1.31	5.04	1.51	6.00	3.96	13.03
July 25, 2011	8.69	1.39	5.69	1.18	6.00	4.48	12.27
July 26, 2011	8.76	1.40	7.18	0.05	6.00	6.00	8.04
July 27, 2011	8.66	1.37	7.14	0.11	6.00	5.95	8.31
July 28, 2011	8.79	1.49	7.07	0.06	6.00	5.77	9.13
July 29, 2011	8.58	1.60	7.02	0.04	6.00	5.84	8.74
July 30, 2011	8.10	1.34	6.92	0.09	6.00	5.78	7.71

July 31, 2011	8.10	1.51	5.48	0.83	6.00	4.42	8.86
August 1, 2011	8.50	1.39	6.83	0.07	6.00	5.67	13.80
August 2, 2011	8.71	1.40	7.10	0.06	6.00	5.93	15.56
August 3, 2011	8.65	1.62	6.88	0.08	6.00	5.56	18.23
August 4, 2011	8.71	1.59	6.89	0.06	6.00	5.73	21.75
August 5, 2011	8.55	1.62	6.92	0.08	6.00	5.64	25.38
August 6, 2011	8.00	1.49	6.65	0.09	6.00	5.46	22.57
August 7, 2011	7.97	1.39	4.71	1.70	6.00	3.60	16.51
August 8, 2011	8.52	1.71	6.23	0.20	6.00	5.05	10.80
August 9, 2011	8.66	1.57	6.76	0.28	6.00	5.57	13.47
August 10, 2011	8.56	1.58	5.72	1.29	6.00	4.60	16.10
August 11, 2011	8.58	1.65	6.57	0.37	6.00	5.36	10.53
August 12, 2011	8.50	1.59	6.71	0.13	6.00	5.55	9.28
August 13, 2011	8.01	1.27	5.59	1.37	6.00	4.35	10.21
August 14, 2011	7.89	1.42	5.42	0.87	6.00	4.08	19.07
August 15, 2011	8.51	1.45	3.61	3.12	6.00	2.50	25.59
August 16, 2011	8.68	1.56	6.86	0.07	6.00	5.63	18.74
August 17, 2011	8.63	1.49	6.70	0.36	6.00	5.28	14.38
August 18, 2011	8.58	1.44	6.86	0.25	6.00	5.54	11.82
August 19, 2011	8.14	1.48	5.96	0.93	6.00	4.73	11.39
August 20, 2011	7.83	1.33	6.49	0.09	6.00	5.28	8.78
August 21, 2011	7.90	1.28	5.18	1.07	6.00	4.02	12.80
August 22, 2011	8.18	1.48	6.62	0.06	6.00	5.46	22.11
August 23, 2011	8.19	1.43	5.90	0.77	6.00	4.79	21.88
August 24, 2011	8.41	1.48	6.69	0.07	6.00	5.39	17.44
August 25, 2011	8.25	1.64	6.57	0.09	6.00	5.29	13.39
August 26, 2011	8.15	1.55	6.55	0.05	6.00	5.24	13.05
August 27, 2011	7.81	1.53	6.26	0.07	6.00	4.96	10.51
August 28, 2011	7.68	1.48	5.80	0.07	6.00	4.81	16.80
August 29, 2011	7.98	1.63	6.37	0.05	6.00	5.28	23.27
August 30, 2011	8.21	1.62	5.91	0.45	6.00	4.63	22.66
August 31, 2011	8.03	1.64	6.25	0.04	6.00	4.84	21.38
September 1, 2011	8.22	1.61	6.04	0.10	6.00	4.66	15.79
September 2, 2011	8.02	1.65	4.89	1.39	6.00	3.59	11.01

September 3, 2011	7.71	1.74	5.62	0.58	6.00	4.25	8.45
September 4, 2011	7.25	1.60	5.71	0.02	6.00	4.33	11.71
September 5, 2011	7.92	1.50	5.59	0.05	6.00	4.32	15.91
September 6, 2011	8.08	1.52	6.57	0.04	6.00	5.12	16.95
September 7, 2011	8.19	1.57	6.56	0.04	6.00	5.22	16.11
September 8, 2011	0.00	0.00	5.83	0.09	6.00	4.49	23.00
September 9, 2011	6.75	1.05	4.41	1.16	6.00	3.30	22.84
September 10, 2011	8.92	1.26	6.55	0.05	6.00	5.13	24.11
September 11, 2011	7.66	1.29	4.44	1.74	6.00	3.16	26.23
September 12, 2011	8.04	1.13	4.66	2.11	6.00	3.36	24.51
September 13, 2011	7.94	1.43	5.36	1.26	6.00	4.03	20.97
September 14, 2011	8.08	1.31	6.70	0.02	6.00	5.51	18.59
September 15, 2011	8.16	1.49	6.40	0.09	6.00	5.12	16.42
September 16, 2011	7.84	1.35	6.58	0.07	6.00	5.28	18.76
September 17, 2011	7.70	1.39	6.06	0.07	6.00	4.68	15.25
September 18, 2011	7.88	1.25	5.18	0.84	6.00	3.85	23.23
September 19, 2011	7.88	1.42	2.30	4.19	5.00	1.18	26.13
September 20, 2011	7.98	1.49	5.05	1.19	5.00	3.73	21.15
September 21, 2011	8.00	1.48	5.47	1.04	5.00	4.12	20.91
September 22, 2011	8.05	1.35	5.24	1.04	5.00	3.94	20.07
September 23, 2011	7.70	1.38	5.36	1.06	5.00	4.05	19.84
September 24, 2011	7.54	1.44	5.98	0.35	5.00	4.62	14.80
September 25, 2011	7.48	1.33	6.05	0.06	5.00	4.68	19.92
September 26, 2011	7.92	1.38	4.16	2.15	5.00	3.06	26.59
September 27, 2011	7.41	1.55	3.20	2.69	5.00	2.32	19.22
September 28, 2011	7.97	1.52	5.02	1.45	5.00	3.73	13.90
September 29, 2011	7.88	1.55	5.90	0.02	5.00	4.54	12.80
September 30, 2011	7.74	1.53	6.37	0.04	5.00	4.99	13.61
October 1, 2011	7.53	1.39	6.14	0.02	5.00	4.76	11.89
October 2, 2011	7.40	1.32	6.03	0.05	5.00	4.65	17.54
October 3, 2011	7.90	1.52	3.17	2.90	5.00	2.00	26.02
October 4, 2011	7.79	1.36	6.20	0.27	5.00	4.80	20.21
October 5, 2011	7.93	1.49	6.11	0.06	5.00	4.73	19.28
October 6, 2011	7.84	1.62	2.95	3.22	5.00	1.81	26.00

October 7, 2011	7.85	1.41	0.00	6.41	5.00	0.00	25.19
October 8, 2011	7.64	1.26	4.58	1.85	5.00	3.33	20.96
October 9, 2011	7.46	1.12	2.55	3.73	5.00	1.45	26.22
October 10, 2011	8.10	1.50	3.81	2.20	5.00	2.59	24.18
October 11, 2011	7.96	1.20	2.15	4.55	5.00	1.08	24.74
October 12, 2011	7.93	1.20	1.40	5.20	5.00	0.41	26.97
October 13, 2011	7.95	1.18	5.35	1.39	5.00	4.59	22.31
October 14, 2011	7.93	1.35	6.54	0.06	5.00	5.68	19.68
October 15, 2011	7.64	1.35	6.61	0.06	5.00	5.72	18.70
October 16, 2011	7.74	1.49	3.27	2.67	5.00	2.58	25.76
October 17, 2011	8.08	1.34	0.83	5.69	5.00	0.38	25.69
October 18, 2011	7.64	1.43	5.15	0.79	5.00	4.43	23.31
October 19, 2011	7.91	1.34	6.49	0.08	5.00	5.37	22.33
October 20, 2011	7.80	1.15	1.80	4.86	5.00	0.95	24.61
October 21, 2011	7.85	1.44	5.61	0.69	5.00	4.41	21.90
October 22, 2011	7.80	1.36	6.43	0.03	5.00	5.23	22.88
October 23, 2011	7.66	1.45	6.12	0.09	5.00	4.87	19.89
October 24, 2011	8.04	1.67	2.95	3.16	5.00	1.83	25.46
October 25, 2011	8.01	1.61	3.01	3.13	5.00	1.88	25.04
October 26, 2011	7.79	1.56	3.58	2.72	5.00	2.48	20.52
October 27, 2011	8.01	1.55	5.00	1.27	5.00	3.72	13.54
October 28, 2011	7.84	1.40	6.05	0.47	5.00	4.70	10.68
October 29, 2011	7.66	1.56	6.20	0.04	5.00	4.82	13.46
October 30, 2011	7.58	1.39	4.18	1.88	5.00	2.93	24.35
October 31, 2011	7.67	1.41	2.25	4.26	3.50	1.15	26.15
November 1, 2011	7.82	1.24	5.30	1.26	3.50	4.13	22.70
November 2, 2011	8.06	1.58	6.12	0.04	3.50	4.91	22.32
November 3, 2011	8.18	1.21	2.26	4.37	3.50	1.33	27.08
November 4, 2011	8.05	1.49	2.11	4.30	3.50	1.19	24.65
November 5, 2011	7.90	1.36	0.00	6.68	3.50	0.00	26.07
November 6, 2011	7.88	1.35	4.70	1.69	3.50	3.62	22.68
November 7, 2011	7.92	1.26	2.95	3.64	3.00	1.97	25.77
November 8, 2011	7.97	1.27	0.00	6.63	3.00	0.00	26.34
November 9, 2011	8.00	1.09	0.00	6.81	3.00	0.00	24.64

November 10, 2011	7.94	1.17	0.00	6.61	3.00	0.00	24.22
November 11, 2011	7.85	1.02	0.00	6.91	3.00	0.00	24.17
November 12, 2011	8.10	1.10	0.00	6.81	3.00	0.00	24.16
November 13, 2011	8.01	1.21	0.00	6.57	3.00	0.00	23.76
November 14, 2011	8.03	1.07	0.00	6.98	3.00	0.00	22.02
November 15, 2011	8.03	1.10	0.00	6.83	3.00	0.00	21.37
November 16, 2011	8.02	1.10	0.00	6.79	3.00	0.00	21.27
November 17, 2011	8.02	0.99	0.00	6.92	3.00	0.00	21.20
November 18, 2011	8.00	1.19	0.00	6.61	3.00	0.00	21.14
November 19, 2011	7.87	0.88	0.00	6.90	3.00	0.00	21.13
November 20, 2011	7.92	1.04	0.00	6.73	3.00	0.00	21.04
November 21, 2011	8.00	1.06	0.00	6.82	0.00	0.00	20.92
November 22, 2011	7.95	0.96	0.00	6.96	0.00	0.00	20.84
November 23, 2011	8.04	1.03	0.00	6.79	0.00	0.00	20.75
November 24, 2011	7.82	1.05	0.00	6.73	0.00	0.00	20.69
November 25, 2011	7.91	0.99	0.00	6.65	0.00	0.00	20.63
November 26, 2011	7.83	1.09	0.00	6.73	0.00	0.00	20.59
November 27, 2011	7.93	0.89	0.00	6.88	0.00	0.00	20.50
November 28, 2011	8.01	0.90	0.00	6.99	0.00	0.00	20.38
November 29, 2011	8.15	1.01	0.00	7.04	0.00	0.00	18.55
November 30, 2011	8.21	1.17	0.00	6.91	0.00	0.00	19.63
December 1, 2011	7.96	0.99	0.00	7.18	0.00	0.00	20.16
December 2, 2011	8.41	1.31	0.00	6.94	0.00	0.00	20.73
December 3, 2011	7.91	0.89	0.00	6.85	0.00	0.00	20.72
December 4, 2011	8.02	0.99	0.00	6.70	0.00	0.00	20.60
December 5, 2011	7.95	0.88	0.00	6.92	0.00	0.00	20.39
December 6, 2011	8.18	1.09	0.00	6.96	0.00	0.00	18.65
December 7, 2011	8.21	1.09	0.00	7.08	0.00	0.00	16.24
December 8, 2011	8.46	0.99	0.00	7.32	0.00	0.00	13.79
December 9, 2011	8.24	0.88	0.00	7.17	0.00	0.00	11.76
December 10, 2011	7.90	1.05	0.00	6.61	0.00	0.00	9.34
December 11, 2011	7.90	1.05	0.00	6.72	0.00	0.00	6.93
December 12, 2011	15.00	2.27	2.74	3.52	3.00	1.62	6.15
December 13, 2011	8.69	1.48	2.06	4.77	3.00	1.49	13.91

December 14, 2011	8.38	1.56	3.78	3.06	3.00	3.10	17.50
December 15, 2011	8.46	1.46	1.65	5.19	3.00	1.11	26.79
December 16, 2011	8.04	1.46	0.00	6.51	3.00	0.00	27.05
December 17, 2011	7.60	1.45	0.00	6.15	3.00	0.00	26.25
December 18, 2011	7.87	1.56	0.00	6.29	3.00	0.00	25.43
December 19, 2011	8.20	1.64	0.00	6.50	3.00	0.00	24.69
December 20, 2011	8.26	1.55	0.00	6.69	3.00	0.00	24.34
December 21, 2011	8.30	1.68	0.00	6.66	3.00	0.00	25.38
December 22, 2011	8.29	1.52	0.00	6.90	3.00	0.00	26.21
December 23, 2011	8.31	1.18	0.00	6.71	3.00	0.00	25.93
December 24, 2011	7.81	1.18	0.00	6.85	3.00	0.00	25.93
December 25, 2011	6.97	1.32	0.00	5.97	3.00	0.00	25.92
December 26, 2011	7.67	1.31	0.00	5.78	No Order	0.00	25.85
December 27, 2011	8.14	1.37	0.00	6.34	No Order	0.00	25.68
December 28, 2011	8.00	1.23	0.00	6.79	No Order	0.00	25.68
December 29, 2011	7.96	1.25	0.00	6.62	No Order	0.00	25.49
December 30, 2011	7.86	1.04	0.00	6.74	No Order	0.00	24.87
December 31, 2011	7.78	1.44	0.00	6.41	No Order	0.00	24.08
January 1, 2012	6.96	0.98	0.00	6.66	No Order	0.00	23.35
January 2, 2012	7.73	1.33	0.00	5.46	No Order	0.00	22.58
January 3, 2012	7.90	1.03	0.00	7.21	No Order	0.00	21.83
January 4, 2012	7.35	1.22	0.00	5.68	No Order	0.00	20.25
January 5, 2012	7.86	1.33	0.00	6.31	No Order	0.00	18.28
January 6, 2012	7.83	1.30	2.34	4.29	No Order	1.21	16.84
January 7, 2012	7.70	1.39	3.44	2.88	No Order	2.25	24.57
January 8, 2012	7.83	1.56	0.00	6.19	No Order	0.00	26.24
January 9, 2012	8.04	1.48	0.28	5.98	3.00	0.00	24.23
January 10, 2012	7.89	1.41	2.73	3.67	3.00	1.58	24.97
January 11, 2012	7.95	1.48	3.00	3.34	3.00	1.83	23.67
January 12, 2012	8.00	1.67	2.42	3.81	3.00	1.28	16.69
January 13, 2012	7.27	1.54	4.68	1.21	3.00	3.42	14.54
January 14, 2012	7.78	1.49	4.52	1.42	3.00	3.26	12.42
January 15, 2012	7.49	1.51	4.57	1.60	3.00	3.30	16.83
January 16, 2012	8.07	1.41	4.61	1.58	3.00	3.38	14.06

January 17, 2012	8.22	1.40	4.84	1.88	3.00	3.58	19.94
January 18, 2012	8.30	1.20	5.04	1.99	3.00	3.74	22.24
January 19, 2012	8.28	1.34	0.73	6.08	3.00	0.00	26.21
January 20, 2012	8.09	1.22	4.22	2.63	3.00	2.97	22.08
January 21, 2012	7.82	1.14	1.59	5.27	3.00	0.54	26.83
January 22, 2012	8.12	1.51	0.06	6.11	3.00	0.00	24.56
January 23, 2012	8.09	1.46	2.26	4.39	3.00	1.54	26.16
January 24, 2012	8.42	1.27	0.01	6.83	3.00	0.00	22.75
January 25, 2012	8.38	0.91	1.66	5.64	3.00	1.38	20.49
January 26, 2012	8.28	0.88	2.21	5.08	3.00	1.87	25.12
January 27, 2012	8.20	1.19	0.00	6.92	3.00	0.00	27.66
January 28, 2012	7.67	0.98	2.22	4.93	3.00	1.87	23.02
January 29, 2012	8.05	0.97	1.07	5.62	3.00	0.81	26.81
January 30, 2012	8.33	1.14	0.00	6.82	3.00	0.00	26.65
January 31, 2012	8.37	1.15	2.39	4.82	3.00	2.01	20.83
February 1, 2012	8.30	1.02	2.99	4.03	3.00	2.59	22.98
February 2, 2012	8.34	1.27	2.93	3.94	3.00	2.56	20.19
February 3, 2012	8.21	1.10	3.14	3.84	3.00	2.75	21.02
February 4, 2012	7.69	1.28	0.00	6.54	3.00	0.00	18.10
February 5, 2012	7.75	1.06	1.67	5.17	3.00	1.38	15.80
February 6, 2012	8.26	1.15	2.98	3.75	2.00	2.58	16.90
February 7, 2012	8.33	1.38	0.00	6.85	2.00	0.00	15.67
February 8, 2012	8.45	1.06	2.93	4.25	2.00	2.30	13.69
February 9, 2012	8.37	1.10	3.87	3.24	2.00	2.64	18.34
February 10, 2012	8.24	1.07	3.87	2.98	2.00	2.63	19.47
February 11, 2012	7.09	1.10	4.12	2.45	2.00	2.84	23.11
February 12, 2012	7.55	1.10	0.14	5.85	2.00	0.00	27.30
February 13, 2012	8.11	1.23	0.00	7.12	1.00	0.00	22.90
February 14, 2012	8.19	1.01	4.00	3.13	1.00	3.54	19.24
February 15, 2012	8.10	1.16	2.08	5.05	1.00	1.75	26.06
February 16, 2012	7.96	1.06	0.00	7.07	1.00	0.00	27.69
February 17, 2012	7.54	1.18	0.00	6.86	1.00	0.00	27.24
February 18, 2012	7.97	1.08	0.00	6.92	1.00	0.00	26.47
February 19, 2012	7.76	1.06	0.00	6.70	1.00	0.00	26.36

February 20, 2012	8.25	1.20	0.00	6.67	1.00	0.00	26.22
February 21, 2012	7.11	1.02	0.00	6.37	1.00	0.00	25.12
February 22, 2012	8.43	0.86	0.00	7.21	1.00	0.00	21.21
February 23, 2012	8.22	1.30	3.05	3.65	1.00	2.68	19.74
February 24, 2012	8.06	1.03	1.99	4.87	1.00	1.68	26.66
February 25, 2012	7.85	1.22	0.00	6.64	1.00	0.00	26.99
February 26, 2012	7.93	1.11	3.49	3.30	1.00	3.07	19.63
February 27, 2012	7.87	1.26	4.06	2.63	No Order	3.60	17.62
February 28, 2012	8.39	1.18	2.09	4.69	No Order	1.78	26.24
February 29, 2012	8.12	1.12	0.46	6.46	No Order	0.25	26.95
March 1, 2012	8.33	1.40	0.00	6.76	No Order	0.00	27.69
March 2, 2012	8.34	1.15	0.00	7.15	No Order	0.00	27.13
March 3, 2012	8.02	1.33	0.00	6.83	No Order	0.00	26.47
March 4, 2012	8.03	1.14	0.00	7.04	No Order	0.00	26.37
March 5, 2012	8.31	1.10	0.00	7.09	1.00	0.00	25.72
March 6, 2012	8.36	1.05	0.00	7.10	1.00	0.00	24.18
March 7, 2012	8.44	1.36	0.00	6.78	1.00	0.00	22.74
March 8, 2012	8.45	1.26	0.00	7.00	1.00	0.00	20.38
March 9, 2012	8.37	1.23	3.00	4.17	1.00	0.00	9.37
March 10, 2012	8.10	1.09	4.22	2.80	1.00	0.00	6.84
March 11, 2012	8.09	1.10	4.22	2.80	1.00	0.00	6.77
March 12, 2012	8.36	1.41	3.14	3.70	1.00	0.00	7.49
March 13, 2012	8.42	1.32	2.86	3.94	1.00	0.00	6.99
March 14, 2012	8.38	1.07	4.38	2.88	1.00	2.64	8.99
March 15, 2012	5.20	0.46	4.39	2.37	1.00	3.48	7.48
March 16, 2012	8.08	1.27	4.93	1.99	1.00	3.48	8.69
March 17, 2012	8.13	1.12	4.95	1.74	1.00	2.77	8.16
March 18, 2012	8.26	1.23	5.06	1.89	1.00	2.50	14.44
March 19, 2012	8.51	1.19	2.82	4.18	1.00	3.90	25.82
March 20, 2012	8.39	1.26	0.00	7.01	1.00	3.92	25.05
March 21, 2012	8.32	1.06	2.20	5.04	1.00	4.43	24.20
March 22, 2012	8.46	1.06	0.38	6.88	1.00	4.47	26.87
March 23, 2012	8.36	0.98	1.97	5.34	1.00	4.57	25.22
March 24, 2012	8.18	1.07	0.39	6.78	1.00	2.02	27.13

March 25, 2012	8.13	0.99	0.00	7.19	1.00	0.00	25.06
March 26, 2012	8.47	1.06	0.00	7.18	1.00	1.09	22.58
March 27, 2012	8.45	1.09	0.00	7.19	1.00	0.00	21.64
March 28, 2012	8.32	1.07	2.27	4.89	1.00	0.88	21.74
March 29, 2012	8.28	1.08	1.14	6.01	1.00	0.00	24.33
March 30, 2012	8.31	1.07	2.96	4.19	1.00	0.00	18.29
March 31, 2012	7.88	1.00	3.29	3.86	1.00	0.00	20.47
April 1, 2012	7.99	1.07	3.21	3.81	1.00	0.00	23.34
April 2, 2012	8.41	1.18	2.50	4.37	1.00	1.68	26.37
April 3, 2012	8.45	1.01	2.36	4.86	1.00	0.61	25.11
April 4, 2012	8.31	1.14	3.09	4.00	0.00	1.90	22.66
April 5, 2012	8.28	1.09	3.19	3.92	0.00	1.98	23.62
April 6, 2012	8.17	1.15	3.12	3.93	0.00	1.93	17.92
April 7, 2012	7.68	1.06	3.19	3.89	0.00	2.01	18.55
April 8, 2012	8.09	1.09	3.14	3.48	0.00	1.97	23.89
April 9, 2012	8.43	1.15	2.02	4.94	0.00	0.91	26.76
April 10, 2012	8.45	1.22	3.04	3.95	0.00	1.87	26.42
April 11, 2012	8.23	1.33	3.32	3.49	0.00	2.12	22.52
April 12, 2012	8.30	1.49	4.16	2.58	0.00	2.92	15.04
April 13, 2012	8.27	1.37	4.04	2.85	0.00	3.07	16.73
April 14, 2012	8.30	1.40	3.63	3.45	0.00	3.23	23.03
April 15, 2012	8.16	1.35	0.00	6.81	0.00	0.00	27.61
April 16, 2012	8.36	1.62	0.59	6.09	0.00	0.38	27.29
April 17, 2012	8.29	1.54	4.27	2.38	0.00	3.82	23.46
April 18, 2012	8.32	1.54	4.28	2.40	0.00	3.83	25.46
April 19, 2012	8.33	1.44	3.46	3.46	0.00	3.06	26.54
April 20, 2012	8.13	1.52	3.60	2.99	0.00	3.20	26.45
April 21, 2012	7.99	1.54	3.64	3.05	0.00	3.25	25.22
April 22, 2012	8.15	1.25	2.48	4.13	0.00	2.15	26.57
April 23, 2012	8.39	1.29	3.52	3.44	0.00	3.11	25.94
April 24, 2012	8.37	1.31	0.32	6.54	0.00	0.10	26.43
April 25, 2012	8.24	1.40	3.92	3.37	0.00	3.47	23.98
April 26, 2012	8.30	1.51	0.59	6.05	0.00	0.37	27.53
April 27, 2012	8.34	1.21	2.58	4.46	0.00	2.23	26.81

April 28, 2012	8.22	1.27	0.00	6.93	0.00	0.00	27.64
April 29, 2012	8.24	1.02	0.00	7.20	0.00	0.00	27.56
April 30, 2012	8.46	1.29	2.31	4.62	0.00	1.96	26.77
May 1, 2012	8.32	1.24	0.89	6.11	0.00	0.65	27.44
May 2, 2012	8.27	1.38	0.87	5.90	0.00	0.62	27.44
May 3, 2012	8.33	1.34	4.13	2.82	0.00	3.65	23.45
May 4, 2012	8.33	1.31	4.53	2.38	0.00	4.05	20.15
May 5, 2012	8.06	1.26	5.00	1.91	0.00	4.48	18.57
May 6, 2012	8.05	1.31	2.37	4.37	0.00	2.09	26.17
May 7, 2012	8.51	1.24	1.48	5.53	0.00	1.22	27.23
May 8, 2012	8.33	1.18	2.03	4.97	0.00	1.70	27.06
May 9, 2012	8.12	1.24	4.10	2.91	0.00	3.63	24.75
May 10, 2012	8.32	1.14	4.12	2.96	0.00	3.64	25.05
May 11, 2012	8.50	1.10	4.18	2.98	0.00	3.74	21.30
May 12, 2012	8.13	1.21	4.16	2.93	0.00	3.74	16.78
May 13, 2012	8.00	1.15	4.28	2.64	0.00	3.89	11.20
May 14, 2012	8.45	1.29	4.29	2.49	0.00	3.85	10.47
May 15, 2012	8.52	1.30	4.81	2.19	0.00	4.31	11.08
May 16, 2012	8.31	1.16	5.11	1.99	0.00	4.59	12.44
May 17, 2012	8.32	1.10	5.14	2.02	0.00	4.62	13.49
May 18, 2012	8.32	1.17	5.10	2.00	0.00	4.59	12.46
May 19, 2012	8.10	1.09	5.18	1.95	0.00	4.66	14.14
May 20, 2012	7.86	1.24	5.04	1.88	0.00	4.56	17.98
May 21, 2012	8.40	1.11	5.13	1.86	0.00	4.60	21.21
May 22, 2012	8.46	1.11	5.42	1.84	0.00	4.87	18.24
May 23, 2012	8.47	1.06	5.59	1.82	0.00	5.05	18.42
May 24, 2012	8.44	1.20	5.45	1.76	0.00	4.93	14.57
May 25, 2012	8.04	1.24	5.50	1.60	0.00	4.94	16.00
May 26, 2012	7.99	1.15	5.27	1.42	0.00	4.74	16.89
May 27, 2012	7.65	1.30	5.14	1.31	0.00	4.63	19.98
May 28, 2012	8.06	1.30	4.42	1.80	0.00	3.97	25.00
May 29, 2012	8.32	1.19	5.24	1.76	0.00	4.70	23.11
May 30, 2012	8.39	1.28	5.45	1.76	0.00	4.90	20.93
May 31, 2012	8.39	1.39	3.71	3.37	0.00	3.29	26.06

June 1, 2012	8.19	1.15	5.41	1.75	0.00	4.90	20.22
June 2, 2012	7.87	1.30	5.05	1.52	0.00	4.55	15.00
June 3, 2012	7.52	1.20	4.90	1.42	0.00	4.46	13.56
June 4, 2012	8.27	1.20	5.14	1.40	0.00	4.63	17.08
June 5, 2012	8.32	1.34	5.24	1.56	0.00	4.71	13.63
June 6, 2012	8.41	1.26	5.40	1.63	0.00	4.85	16.13
June 7, 2012	8.02	1.06	5.62	1.52	0.00	5.07	16.18
June 8, 2012	6.32	1.00	4.64	0.63	0.00	4.14	10.58
June 9, 2012	7.89	1.29	5.27	0.77	0.00	4.73	8.28
June 10, 2012	7.74	1.05	5.68	1.06	0.00	5.13	12.28
June 11, 2012	8.29	1.26	5.40	1.41	0.00	4.84	13.28
June 12, 2012	8.32	1.34	5.48	1.48	0.00	4.91	9.93
June 13, 2012	8.22	1.46	4.59	2.50	0.00	4.11	9.11
June 14, 2012	7.73	1.32	4.86	1.39	0.00	4.38	10.11
June 15, 2012	8.12	1.22	5.15	1.65	0.00	4.64	10.27
June 16, 2012	8.01	1.30	5.12	1.58	0.00	4.62	12.58
June 17, 2012	7.77	1.21	5.28	1.34	0.00	4.81	17.77
June 18, 2012	8.02	1.31	5.24	1.21	0.00	4.72	23.98
June 19, 2012	8.43	1.22	5.32	1.76	0.00	4.78	23.77
June 20, 2012	8.38	1.24	5.10	1.87	0.00	4.58	19.30
June 21, 2012	8.17	1.21	5.54	1.21	0.00	5.01	14.73
June 22, 2012	7.64	1.38	5.39	0.90	0.00	4.86	15.56
June 23, 2012	7.86	1.23	5.50	1.01	0.00	4.97	17.63
June 24, 2012	7.74	1.29	4.45	2.00	0.00	4.03	24.42
June 25, 2012	8.25	1.36	4.89	1.82	0.00	4.40	24.25
June 26, 2012	8.34	1.39	5.33	1.52	0.00	4.80	21.17
June 27, 2012	8.18	1.48	5.34	1.36	0.00	4.82	18.72
June 28, 2012	8.29	1.56	5.36	1.37	0.00	4.82	14.51
June 29, 2012	8.10	1.34	5.39	0.99	0.00	4.86	17.10
June 30, 2012	7.94	1.49	5.38	0.90	0.00	4.85	16.70

FY 13	SBWRP INFLUENT	BLENDED SLUDGE	RW PRODUCED	OUTFALL FLOW	OTAY DEMAND	RW OTAY	OTAY TANK LEVEL MIN 15/ MAX 28
Date	MGD	MGD	MGD	MGD	MGD	MGD	FT
Average=	8.02	1.49	3.18	3.33	0.00	2.81	N/A
July 1, 2012	7.69	1.40	5.37	0.92	0.00	4.86	20.08
July 2, 2012	8.16	1.51	4.54	2.10	0.00	4.06	19.98
July 3, 2012	7.97	1.50	4.00	2.51	0.00	3.55	10.75
July 4, 2012	7.32	1.52	3.76	2.54	0.00	3.35	6.96
July 5, 2012	8.00	1.59	2.89	2.87	0.00	2.53	7.70
July 6, 2012	8.17	1.60	4.15	1.96	0.00	3.68	7.81
July 7, 2012	7.62	1.56	4.07	2.05	0.00	3.62	6.82
July 8, 2012	7.74	1.53	3.66	2.51	0.00	3.29	6.79
July 9, 2012	8.11	1.38	4.66	1.74	0.00	4.18	7.06
July 10, 2012	7.98	1.50	5.52	0.98	0.00	4.96	7.09
July 11, 2012	8.18	1.59	6.42	0.17	0.00	5.79	7.66
July 12, 2012	8.19	1.66	6.41	0.17	0.00	5.78	9.52
July 13, 2012	8.04	1.52	5.17	1.28	0.00	4.65	10.73
July 14, 2012	7.79	1.58	4.83	1.31	0.00	4.34	7.09
July 15, 2012	7.66	1.46	5.59	0.95	0.00	5.06	10.56
July 16, 2012	8.17	1.61	6.25	0.17	0.00	5.65	17.68
July 17, 2012	8.08	1.52	6.07	0.52	0.00	5.48	20.23
July 18, 2012	8.32	1.52	5.56	1.15	0.00	5.02	18.44
July 19, 2012	8.36	1.55	5.92	0.61	0.00	5.32	15.97
July 20, 2012	8.20	1.49	6.57	0.11	0.00	5.89	14.64
July 21, 2012	7.83	1.49	6.54	0.11	0.00	5.91	13.54
July 22, 2012	7.76	1.47	6.26	0.15	0.00	5.69	13.43
July 23, 2012	8.10	1.36	6.41	0.12	0.00	5.77	18.97
July 24, 2012	8.43	1.39	4.05	2.69	0.00	3.57	19.25
July 25, 2012	8.31	1.31	6.85	0.11	0.00	6.18	15.11
July 26, 2012	8.25	1.45	6.65	0.10	0.00	5.98	14.35
July 27, 2012	8.18	1.26	6.75	0.11	0.00	6.08	13.70
July 28, 2012	7.83	1.33	6.76	0.12	0.00	6.10	12.63
July 29, 2012	7.90	1.31	6.20	0.14	0.00	5.61	12.00

July 30, 2012	8.25	1.49	6.64	0.10	0.00	5.97	18.10
July 31, 2012	8.41	1.38	6.14	0.55	0.00	5.45	17.80
August 1, 2012	8.12	1.51	6.53	0.20	0.00	5.84	15.61
August 2, 2012	8.17	1.57	4.59	1.81	0.00	4.04	13.45
August 3, 2012	7.36	1.49	5.69	0.43	0.00	5.08	10.41
August 4, 2012	7.77	1.55	6.24	0.15	0.00	5.61	14.03
August 5, 2012	7.93	1.37	6.15	0.10	0.00	5.56	15.05
August 6, 2012	8.34	1.26	6.73	0.09	0.00	6.08	20.58
August 7, 2012	8.33	1.42	6.62	0.09	0.00	5.98	22.36
August 8, 2012	8.05	1.39	6.68	0.11	0.00	6.01	22.73
August 9, 2012	8.25	1.41	5.15	1.67	0.00	4.58	26.22
August 10, 2012	8.22	1.22	6.15	0.85	0.00	5.52	25.56
August 11, 2012	8.10	1.37	6.69	0.10	0.00	6.04	24.22
August 12, 2012	8.27	1.46	3.15	3.61	0.00	2.79	27.26
August 13, 2012	8.26	1.37	5.40	1.43	0.00	4.82	25.89
August 14, 2012	8.23	1.47	5.36	1.34	0.00	4.81	23.09
August 15, 2012	8.24	1.37	6.43	0.45	0.00	5.78	21.65
August 16, 2012	7.96	1.43	6.44	0.12	0.00	5.74	23.72
August 17, 2012	8.19	1.33	6.63	0.12	0.00	5.96	22.47
August 18, 2012	8.14	1.50	5.67	0.95	0.00	5.09	23.39
August 19, 2012	8.26	1.27	2.23	4.77	0.00	1.95	27.29
August 20, 2012	8.27	1.49	5.12	1.67	0.00	4.56	25.72
August 21, 2012	8.26	1.42	5.55	1.31	0.00	4.96	24.70
August 22, 2012	8.28	1.37	4.78	2.10	0.00	4.27	25.67
August 23, 2012	8.28	1.54	5.49	1.21	0.00	4.89	25.30
August 24, 2012	8.26	1.49	5.45	1.32	0.00	4.87	24.76
August 25, 2012	8.01	1.38	5.56	1.27	0.00	4.99	23.42
August 26, 2012	7.94	1.33	5.42	1.29	0.00	4.90	22.00
August 27, 2012	8.25	1.40	3.90	2.98	0.00	3.48	26.26
August 28, 2012	8.39	1.54	5.05	1.71	0.00	4.52	25.49
August 29, 2012	8.34	1.43	4.97	1.83	0.00	4.44	24.42
August 30, 2012	8.36	1.35	5.08	1.85	0.00	4.55	21.89
August 31, 2012	8.27	1.58	5.74	0.91	0.00	5.19	19.58
September 1, 2012	8.05	1.41	6.39	0.17	0.00	5.77	20.08

September 2, 2012	7.35	1.29	5.25	1.42	0.00	4.74	23.48
September 3, 2012	8.04	1.37	4.35	1.83	0.00	3.90	25.98
September 4, 2012	8.18	1.56	4.58	2.06	0.00	4.13	26.41
September 5, 2012	8.34	1.17	5.07	1.90	0.00	4.55	25.33
September 6, 2012	8.21	1.36	5.11	1.74	0.00	4.59	21.94
September 7, 2012	8.04	1.46	5.05	1.62	0.00	4.56	18.75
September 8, 2012	8.02	1.37	5.07	1.43	0.00	4.57	16.52
September 9, 2012	8.02	1.46	4.89	1.68	0.00	4.40	22.46
September 10, 2012	8.09	1.47	5.45	1.24	0.00	4.92	25.39
September 11, 2012	5.90	1.01	5.75	0.63	0.00	5.17	23.23
September 12, 2012	8.31	1.53	4.69	1.87	0.00	4.16	26.32
September 13, 2012	8.12	1.45	4.50	2.10	0.00	3.99	26.61
September 14, 2012	8.22	1.45	4.69	1.97	0.00	4.19	25.09
September 15, 2012	8.01	1.14	4.21	2.67	0.00	3.76	25.91
September 16, 2012	7.84	1.46	2.39	4.00	0.00	2.09	26.58
September 17, 2012	8.12	1.30	4.52	2.32	0.00	4.07	25.38
September 18, 2012	8.07	1.41	4.98	1.63	0.00	4.46	24.13
September 19, 2012	8.02	1.40	4.99	1.71	0.00	4.47	22.29
September 20, 2012	8.01	1.36	6.01	0.54	0.00	5.40	17.72
September 21, 2012	7.01	1.45	6.02	0.14	0.00	5.42	16.14
September 22, 2012	8.01	1.41	5.99	0.14	0.00	5.39	17.08
September 23, 2012	7.81	1.44	3.32	3.17	0.00	2.93	26.84
September 24, 2012	8.24	1.38	5.42	1.47	0.00	4.89	24.76
September 25, 2012	8.15	1.32	4.19	2.76	0.00	1.39	23.30
September 26, 2012	8.16	1.54	6.44	0.26	0.00	6.12	24.16
September 27, 2012	7.96	1.26	5.53	1.14	0.00	5.24	25.30
September 28, 2012	8.11	1.50	5.13	1.16	0.00	4.86	22.81
September 29, 2012	7.85	1.44	5.95	0.46	0.00	5.65	20.93
September 30, 2012	7.66	1.19	2.74	4.01	0.00	2.55	26.95
October 1, 2012	8.07	1.51	4.14	2.47	0.00	3.91	25.95
October 2, 2012	8.04	1.26	5.04	1.77	0.00	4.75	25.11
October 3, 2012	7.93	1.34	4.88	1.79	0.00	4.58	22.88
October 4, 2012	7.92	1.35	5.06	1.55	0.00	4.75	19.18
October 5, 2012	7.98	1.45	4.99	1.39	0.00	4.71	16.25

October 6, 2012	7.65	1.23	5.09	1.36	0.00	4.79	18.49
October 7, 2012	7.68	1.37	3.56	2.72	0.00	3.32	25.81
October 8, 2012	7.73	1.44	4.60	1.71	0.00	4.32	23.27
October 9, 2012	8.26	1.52	4.99	1.61	0.00	4.67	22.33
October 10, 2012	8.15	1.47	4.96	1.69	0.00	4.62	22.12
October 11, 2012	7.93	1.45	5.02	1.63	0.00	4.67	20.40
October 12, 2012	8.03	1.46	4.72	1.84	0.00	4.44	24.06
October 13, 2012	7.72	1.39	1.38	4.92	0.00	1.19	27.24
October 14, 2012	7.66	1.31	0.00	6.21	0.00	0.00	27.76
October 15, 2012	8.18	1.36	3.62	2.96	0.00	3.39	25.58
October 16, 2012	8.13	1.47	4.87	1.84	0.00	4.54	23.60
October 17, 2012	8.19	1.42	5.24	1.29	0.00	4.91	22.67
October 18, 2012	7.58	1.28	5.15	1.64	0.00	4.81	20.94
October 19, 2012	7.86	1.44	5.27	1.10	0.00	4.93	20.25
October 20, 2012	7.74	1.30	4.18	2.29	0.00	3.88	25.16
October 21, 2012	7.70	1.39	0.00	5.91	0.00	0.00	27.73
October 22, 2012	8.16	1.34	4.11	2.53	0.00	3.85	25.54
October 23, 2012	7.98	1.32	0.00	6.68	0.00	0.00	21.86
October 24, 2012	7.53	1.39	3.80	2.55	0.00	3.49	17.82
October 25, 2012	8.11	1.44	5.32	1.27	0.00	4.99	23.06
October 26, 2012	8.11	1.19	5.24	1.43	0.00	4.93	24.36
October 27, 2012	7.53	1.37	4.07	2.54	0.00	3.80	25.59
October 28, 2012	7.75	1.46	0.00	5.88	0.00	0.00	27.67
October 29, 2012	8.03	1.18	4.44	2.34	0.00	4.19	23.18
October 30, 2012	4.56	0.72	2.55	2.97	0.00	2.29	21.82
October 31, 2012	7.43	1.36	5.07	1.01	0.00	4.73	21.03
November 1, 2012	8.06	1.21	5.28	1.04	0.00	4.92	22.74
November 2, 2012	7.88	1.36	5.38	1.04	0.00	5.04	22.88
November 3, 2012	7.83	1.46	4.22	2.21	0.00	3.96	24.65
November 4, 2012	7.58	1.31	1.18	4.96	0.00	1.02	27.42
November 5, 2012	7.91	1.40	3.87	2.63	0.00	3.61	25.81
November 6, 2012	8.08	1.41	4.21	2.31	0.00	3.92	25.31
November 7, 2012	8.05	1.31	3.40	3.25	0.00	3.11	22.77
November 8, 2012	7.96	1.43	5.10	1.36	0.00	4.81	24.46

November 9, 2012	7.96	1.48	0.85	5.55	0.00	0.71	27.58
November 10, 2012	7.49	1.19	0.00	6.58	0.00	0.00	27.70
November 11, 2012	7.32	1.67	0.52	5.19	0.00	0.39	27.49
November 12, 2012	8.00	1.12	0.55	5.76	0.00	0.39	27.46
November 13, 2012	7.98	1.60	0.67	5.58	0.00	0.51	27.61
November 14, 2012	7.99	1.24	1.57	5.08	0.00	1.40	26.56
November 15, 2012	7.58	1.42	0.00	6.40	0.00	0.00	20.19
November 16, 2012	7.89	1.29	3.33	3.23	0.00	3.09	16.92
November 17, 2012	7.79	1.35	4.18	2.13	0.00	3.94	21.44
November 18, 2012	7.52	1.26	0.69	5.42	0.00	0.53	27.47
November 19, 2012	8.01	1.20	3.50	2.94	0.00	3.26	25.00
November 20, 2012	7.97	1.37	3.31	3.21	0.00	3.07	25.31
November 21, 2012	8.05	1.15	3.92	2.75	0.00	3.61	24.57
November 22, 2012	7.43	1.30	2.59	3.82	0.00	2.33	26.26
November 23, 2012	7.62	1.26	3.79	2.54	0.00	3.53	24.43
November 24, 2012	7.58	1.40	2.32	3.77	0.00	2.09	26.68
November 25, 2012	7.61	1.11	0.23	6.08	0.00	0.08	27.55
November 26, 2012	7.99	1.44	2.47	3.96	0.00	2.24	26.65
November 27, 2012	8.10	1.27	3.19	3.45	0.00	2.95	25.98
November 28, 2012	7.77	1.34	4.25	2.24	0.00	3.97	24.68
November 29, 2012	7.35	1.05	3.02	3.33	0.00	2.79	26.21
November 30, 2012	7.60	1.35	0.91	5.52	0.00	0.74	27.40
December 1, 2012	7.80	1.18	0.00	6.30	0.00	0.00	27.49
December 2, 2012	7.69	1.18	0.00	6.24	0.00	0.00	27.48
December 3, 2012	8.01	1.24	0.98	5.63	0.00	0.82	27.36
December 4, 2012	8.14	1.36	0.00	6.52	0.00	0.00	24.51
December 5, 2012	7.99	1.40	1.83	4.72	0.00	1.60	24.64
December 6, 2012	7.88	1.20	1.20	5.55	0.00	1.05	27.07
December 7, 2012	7.90	1.48	1.65	4.75	0.00	1.47	27.05
December 8, 2012	7.74	1.21	0.00	6.74	0.00	0.00	27.69
December 9, 2012	7.72	1.50	0.00	6.13	0.00	0.00	27.66
December 10, 2012	7.82	1.18	0.00	6.73	0.00	0.00	24.88
December 11, 2012	8.10	1.33	2.65	3.96	0.00	2.41	24.36
December 12, 2012	8.01	1.44	3.61	2.87	0.00	3.30	24.06

December 13, 2012	7.97	1.36	3.94	2.73	0.00	3.65	24.49
December 14, 2012	8.00	1.55	0.02	6.42	0.00	0.00	27.83
December 15, 2012	7.85	1.39	0.00	6.37	0.00	0.00	27.73
December 16, 2012	8.04	1.36	0.78	6.00	0.00	0.00	27.37
December 17, 2012	6.11	0.66	0.00	6.56	0.00	0.00	27.61
December 18, 2012	8.08	1.46	0.00	6.55	0.00	0.00	27.54
December 19, 2012	8.00	1.42	0.00	6.57	0.00	0.00	28.03
December 20, 2012	7.51	1.54	0.00	6.25	0.00	0.00	28.56
December 21, 2012	8.44	1.64	0.00	6.48	0.00	0.00	28.52
December 22, 2012	7.91	1.60	0.00	6.34	0.00	0.00	28.50
December 23, 2012	7.82	1.39	0.00	6.56	0.00	0.00	28.49
December 24, 2012	7.29	1.28	0.00	6.10	0.00	0.00	28.48
December 25, 2012	6.96	1.61	0.00	5.85	0.00	0.00	27.34
December 26, 2012	7.59	1.50	0.00	5.53	0.00	0.00	25.40
December 27, 2012	8.16	1.59	0.00	6.25	0.00	0.00	24.39
December 28, 2012	7.99	1.34	0.00	6.62	0.00	0.00	23.19
December 29, 2012	7.62	1.40	0.00	6.53	0.00	0.00	22.95
December 30, 2012	7.62	1.60	0.00	5.89	0.00	0.00	22.94
December 31, 2012	7.87	1.39	1.94	4.39	0.00	0.00	22.95
January 1, 2013	7.25	1.33	0.00	6.27	0.00	0.00	27.63
January 2, 2013	8.13	1.43	0.00	6.07	0.00	0.00	27.57
January 3, 2013	7.95	1.46	0.00	6.45	0.00	0.00	27.52
January 4, 2013	8.11	1.40	0.00	6.66	0.00	0.00	27.45
January 5, 2013	6.44	1.37	0.00	5.97	0.00	0.00	27.33
January 6, 2013	7.61	1.56	0.00	5.42	0.00	0.00	27.30
January 7, 2013	8.25	1.46	0.00	6.82	0.00	0.00	27.27
January 8, 2013	8.23	1.37	0.00	6.73	0.00	0.00	27.97
January 9, 2013	8.07	1.54	0.00	6.44	0.00	0.00	28.77
January 10, 2013	7.92	1.42	0.00	6.63	0.00	0.00	28.66
January 11, 2013	8.06	1.56	0.00	6.44	0.00	0.00	28.59
January 12, 2013	7.76	1.46	0.00	6.55	0.00	0.00	28.47
January 13, 2013	7.66	1.56	0.00	6.13	0.00	0.00	28.46
January 14, 2013	7.73	1.37	0.00	6.47	0.00	0.00	28.41
January 15, 2013	4.87	0.77	0.00	5.80	0.00	0.00	28.25

January 16, 2013	8.34	1.65	0.00	6.45	0.00	0.00	28.18
January 17, 2013	8.30	1.57	0.00	6.40	0.00	0.00	28.05
January 18, 2013	8.15	1.56	0.00	6.50	0.00	0.00	28.00
January 19, 2013	7.86	1.84	0.00	6.37	0.00	0.00	27.88
January 20, 2013	7.39	1.71	0.00	5.86	0.00	0.00	27.85
January 21, 2013	8.15	1.82	0.00	5.59	0.00	0.00	27.77
January 22, 2013	8.32	1.68	0.00	6.67	0.00	0.00	26.72
January 23, 2013	8.29	1.71	2.55	3.90	0.00	2.34	15.81
January 24, 2013	8.29	1.57	3.87	2.88	0.00	3.61	10.54
January 25, 2013	8.42	1.44	3.95	2.93	0.00	3.66	13.02
January 26, 2013	8.44	1.34	3.81	3.17	0.00	3.59	21.76
January 27, 2013	8.34	1.55	0.00	6.56	0.00	0.00	26.59
January 28, 2013	8.30	1.82	0.00	6.41	0.00	0.00	26.55
January 29, 2013	8.23	1.84	0.00	6.37	0.00	0.00	26.48
January 30, 2013	8.40	1.81	0.00	6.62	0.00	0.00	24.44
January 31, 2013	7.81	1.27	0.00	6.89	0.00	0.00	24.15
February 1, 2013	8.07	1.48	0.00	6.80	0.00	0.00	23.30
February 2, 2013	8.12	1.36	0.00	6.50	0.00	0.00	22.91
February 3, 2013	7.65	1.45	0.00	6.28	0.00	0.00	22.66
February 4, 2013	8.32	1.55	0.00	6.34	0.00	0.00	20.95
February 5, 2013	8.26	1.65	1.58	5.10	0.00	1.39	17.11
February 6, 2013	8.45	1.54	3.92	2.87	0.00	3.61	20.74
February 7, 2013	8.31	1.53	1.79	4.93	0.00	1.59	27.17
February 8, 2013	8.33	1.56	0.00	6.87	0.00	0.00	24.56
February 9, 2013	7.71	1.75	0.00	6.29	0.00	0.00	23.29
February 10, 2013	7.90	1.35	0.00	6.07	0.00	0.00	23.26
February 11, 2013	8.18	1.70	0.00	6.51	0.00	0.00	23.19
February 12, 2013	8.37	1.52	0.00	6.71	0.00	0.00	22.88
February 13, 2013	8.37	1.57	0.00	6.79	0.00	0.00	22.54
February 14, 2013	8.09	1.56	0.00	6.76	0.00	0.00	22.39
February 15, 2013	8.31	1.74	0.00	6.15	0.00	0.00	21.97
February 16, 2013	7.73	1.39	2.69	4.09	0.00	2.50	18.65
February 17, 2013	7.61	1.50	2.14	3.83	0.00	1.96	25.81
February 18, 2013	7.97	1.61	0.43	5.60	0.00	0.26	27.44

February 19, 2013	8.29	1.44	1.21	5.62	0.00	0.94	25.72
February 20, 2013	8.59	1.55	0.00	6.64	0.00	0.00	25.39
February 21, 2013	8.48	1.74	0.00	6.64	0.00	0.00	25.35
February 22, 2013	8.40	1.44	0.00	6.87	0.00	0.00	23.59
February 23, 2013	8.32	1.43	0.00	6.86	0.00	0.00	23.14
February 24, 2013	8.08	1.62	0.00	6.52	0.00	0.00	23.13
February 25, 2013	8.26	1.41	0.00	6.63	0.00	0.00	22.94
February 26, 2013	7.95	1.58	0.00	6.86	0.00	0.00	20.61
February 27, 2013	8.41	1.53	2.54	3.86	0.00	2.08	18.04
February 28, 2013	8.09	1.51	3.89	2.88	0.00	3.36	22.88
March 1, 2013	8.20	1.41	2.48	4.13	0.00	2.03	26.30
March 2, 2013	7.93	1.66	0.00	6.18	0.00	0.00	21.71
March 3, 2013	7.96	1.52	0.00	6.17	0.00	0.00	20.70
March 4, 2013	8.26	1.44	2.03	4.70	0.00	1.66	18.87
March 5, 2013	8.38	1.51	3.81	2.93	0.00	3.29	21.06
March 6, 2013	8.46	1.53	2.87	3.85	0.00	2.39	26.08
March 7, 2013	7.47	1.68	2.21	3.83	0.00	1.77	26.31
March 8, 2013	8.89	1.43	0.80	6.17	0.00	0.00	27.40
March 9, 2013	8.39	1.76	0.00	6.54	0.00	0.00	27.59
March 10, 2013	8.37	1.56	0.00	6.55	0.00	0.00	27.59
March 11, 2013	8.46	1.68	0.00	6.64	0.00	0.00	27.50
March 12, 2013	8.55	1.48	1.20	5.83	0.00	0.00	27.23
March 13, 2013	8.58	1.76	0.00	6.83	0.00	0.00	26.36
March 14, 2013	8.55	1.59	0.00	7.04	0.00	0.00	24.29
March 15, 2013	8.43	1.62	0.00	7.04	0.00	0.00	21.62
March 16, 2013	7.98	1.59	0.00	6.49	0.00	0.00	20.97
March 17, 2013	7.94	1.57	0.00	6.15	0.00	0.00	19.33
March 18, 2013	8.38	1.64	2.85	3.60	0.00	2.30	19.88
March 19, 2013	8.35	1.63	4.44	2.29	0.00	3.84	23.09
March 20, 2013	8.50	1.66	1.61	5.05	0.00	1.19	22.24
March 21, 2013	7.75	1.65	0.00	6.15	0.00	0.00	16.83
March 22, 2013	8.36	1.54	2.59	4.12	0.00	2.06	12.54
March 23, 2013	7.75	1.68	4.63	1.79	0.00	4.05	21.75
March 24, 2013	7.54	1.59	0.86	5.13	0.00	0.59	26.78

March 25, 2013	7.74	1.60	2.28	3.70	0.00	1.88	26.58
March 26, 2013	8.46	1.61	0.00	6.28	0.00	0.00	21.10
March 27, 2013	8.39	1.58	2.69	4.01	0.00	2.22	17.04
March 28, 2013	8.21	1.53	4.61	2.02	0.00	4.02	19.72
March 29, 2013	8.29	1.64	3.58	3.15	0.00	3.02	23.47
March 30, 2013	7.48	1.66	0.38	5.87	0.00	0.10	26.72
March 31, 2013	7.77	1.77	1.70	3.97	0.00	1.34	25.89
April 1, 2013	8.41	1.65	3.27	3.07	0.00	2.78	25.60
April 2, 2013	8.45	1.60	2.60	4.13	0.00	2.16	23.97
April 3, 2013	8.56	1.74	3.46	3.24	0.00	2.97	25.16
April 4, 2013	8.61	1.65	2.56	4.23	0.00	2.08	26.40
April 5, 2013	8.48	1.58	2.53	4.20	0.00	2.09	26.29
April 6, 2013	8.03	1.52	1.47	5.41	0.00	1.10	27.24
April 7, 2013	8.12	1.71	0.01	6.20	0.00	-0.17	27.26
April 8, 2013	7.86	1.62	4.36	2.42	0.00	3.77	24.41
April 9, 2013	8.05	1.51	3.85	2.53	0.00	3.28	25.06
April 10, 2013	8.51	1.62	1.04	5.43	0.00	0.69	27.23
April 11, 2013	8.12	1.64	1.41	5.05	0.00	1.06	27.07
April 12, 2013	8.08	1.58	1.33	5.23	0.00	1.00	27.27
April 13, 2013	7.97	1.56	0.81	5.63	0.00	0.51	27.15
April 14, 2013	8.11	1.63	0.00	6.08	0.00	-0.20	26.78
April 15, 2013	8.23	1.61	3.28	3.42	0.00	2.81	17.95
April 16, 2013	8.43	1.50	4.85	1.87	0.00	4.25	12.73
April 17, 2013	8.57	1.71	5.07	1.61	0.00	4.47	12.29
April 18, 2013	8.45	1.60	5.17	1.61	0.00	4.57	14.93
April 19, 2013	8.13	1.62	4.21	2.51	0.00	3.41	19.69
April 20, 2013	8.02	1.62	5.13	1.50	0.00	3.48	22.87
April 21, 2013	7.87	1.66	2.24	3.81	0.00	0.97	26.66
April 22, 2013	8.27	1.63	4.50	1.88	0.00	3.59	23.95
April 23, 2013	8.27	1.67	2.07	4.59	0.00	1.67	18.40
April 24, 2013	8.15	1.67	4.43	2.03	0.00	3.88	23.54
April 25, 2013	8.26	1.72	1.20	5.31	0.00	0.83	26.34
April 26, 2013	8.27	1.65	1.94	4.79	0.00	1.56	26.01
April 27, 2013	7.76	1.61	4.89	1.50	0.00	4.30	22.05

April 28, 2013	7.87	1.60	3.68	2.24	0.00	3.16	18.83
April 29, 2013	8.30	1.59	5.08	1.52	0.00	4.42	21.65
April 30, 2013	8.39	1.50	5.12	1.62	0.00	4.49	23.01
May 1, 2013	8.21	1.51	4.39	2.44	0.00	3.83	25.58
May 2, 2013	8.55	1.64	5.01	1.67	0.00	4.37	23.10
May 3, 2013	8.35	1.53	5.17	1.64	0.00	4.51	23.55
May 4, 2013	8.11	1.46	3.30	3.62	0.00	2.82	26.06
May 5, 2013	8.05	1.71	0.31	5.78	0.00	0.10	26.62
May 6, 2013	8.15	1.64	2.93	3.52	0.00	2.46	26.25
May 7, 2013	8.42	1.56	0.77	5.98	0.00	0.45	27.24
May 8, 2013	8.45	1.57	1.18	5.65	0.00	0.84	27.44
May 9, 2013	8.48	1.56	2.64	4.13	0.00	2.18	26.24
May 10, 2013	8.27	1.79	3.15	3.50	0.00	2.66	25.78
May 11, 2013	7.88	1.39	2.54	4.27	0.00	2.10	26.64
May 12, 2013	7.86	1.45	3.05	3.26	0.00	2.62	24.53
May 13, 2013	8.44	1.62	4.45	2.15	0.00	3.88	23.46
May 14, 2013	8.59	1.51	4.34	2.47	0.00	3.74	22.96
May 15, 2013	8.47	1.55	2.28	4.70	0.00	1.88	26.76
May 16, 2013	8.41	1.50	1.09	5.69	0.00	0.73	22.26
May 17, 2013	8.32	1.63	3.91	2.87	0.00	3.39	15.35
May 18, 2013	7.94	1.44	4.56	2.38	0.00	4.00	8.08
May 19, 2013	8.14	1.45	4.71	1.47	0.00	4.17	9.75
May 20, 2013	8.33	1.75	4.99	1.67	0.00	4.39	13.09
May 21, 2013	8.35	1.48	5.07	1.78	0.00	4.49	14.27
May 22, 2013	8.45	1.58	5.48	1.24	0.00	4.85	13.88
May 23, 2013	8.00	1.62	6.05	0.76	0.00	5.38	15.25
May 24, 2013	8.35	1.51	6.05	0.74	0.00	5.40	17.89
May 25, 2013	7.98	1.52	5.96	0.70	0.00	5.33	21.58
May 26, 2013	6.94	1.63	0.99	5.03	0.00	0.75	25.77
May 27, 2013	8.03	1.42	2.59	2.92	0.00	2.18	19.47
May 28, 2013	8.31	1.55	5.47	1.52	0.00	4.82	19.59
May 29, 2013	8.54	1.73	5.41	1.27	0.00	4.78	16.01
May 30, 2013	7.85	1.48	5.46	1.02	0.00	4.82	14.90
May 31, 2013	8.30	1.73	5.81	0.83	0.00	5.16	14.01

June 1, 2013	8.01	1.75	5.59	0.82	0.00	4.96	15.29
June 2, 2013	7.97	1.67	4.60	1.49	0.00	4.09	20.95
June 3, 2013	8.32	1.82	5.75	0.79	0.00	5.11	22.29
June 4, 2013	8.41	1.76	5.72	0.79	0.00	5.05	22.58
June 5, 2013	8.38	1.66	6.03	0.64	0.00	5.35	22.84
June 6, 2013	8.43	1.55	6.01	0.75	0.00	5.32	20.77
June 7, 2013	8.38	1.66	6.13	0.65	0.00	5.46	19.75
June 8, 2013	8.04	1.70	5.70	0.84	0.00	5.06	22.37
June 9, 2013	7.88	1.72	0.00	6.09	0.00	-0.18	26.28
June 10, 2013	8.15	1.59	4.80	1.82	0.00	4.21	19.55
June 11, 2013	7.89	1.68	5.74	0.54	0.00	5.06	20.17
June 12, 2013	8.39	1.65	5.91	0.55	0.00	5.23	21.91
June 13, 2013	7.55	1.75	4.64	1.30	0.00	4.03	18.63
June 14, 2013	8.11	1.60	6.04	0.43	0.00	5.38	16.03
June 15, 2013	7.80	1.76	6.06	0.47	0.00	5.40	19.92
June 16, 2013	7.69	1.69	3.30	2.58	0.00	2.88	25.50
June 17, 2013	8.25	1.82	4.12	2.08	0.00	3.55	20.67
June 18, 2013	8.17	1.69	5.98	0.66	0.00	5.31	19.23
June 19, 2013	8.33	1.76	5.81	0.55	0.00	5.15	19.94
June 20, 2013	8.34	1.67	6.02	0.63	0.00	5.33	18.89
June 21, 2013	8.27	1.87	6.00	0.42	0.00	5.34	20.43
June 22, 2013	7.78	1.73	6.12	0.20	0.00	5.46	20.77
June 23, 2013	7.65	1.75	3.77	2.21	0.00	3.30	24.72
June 24, 2013	8.14	1.74	4.37	1.78	0.00	3.80	20.44
June 25, 2013	8.27	1.74	5.88	0.58	0.00	5.20	22.69
June 26, 2013	8.05	1.83	5.87	0.41	0.00	5.20	24.39
June 27, 2013	7.89	1.65	4.91	1.22	0.00	4.30	23.38
June 28, 2013	8.40	1.85	5.90	0.50	0.00	5.24	21.04
June 29, 2013	8.23	1.64	6.24	0.49	0.00	5.55	18.18
June 30, 2013	7.85	1.82	5.80	0.42	0.00	5.18	19.13

**AGREEMENT FOR PROFESSIONAL SERVICES
BETWEEN METRO WASTEWATER JOINT POWERS AUTHORITY
AND ATKINS NORTH AMERICA, INC.**

This agreement ("Agreement") is made and entered into as of _____, 2014, by and between the METRO WASTEWATER JOINT POWERS AUTHORITY (hereinafter referred to as the "Metro JPA"), a joint powers authority organized and operating pursuant to California Government Code section 6500 *et seq.*, and ATKINS NORTH AMERICA, INC. (hereinafter referred to as "Consultant"). Metro JPA and Consultant are sometimes referred to individually as "Party" and collectively as "Parties."

RECITALS

A. The Metro JPA would like to retain the services of Consultant to provide as-needed technical, financial and administrative support services as set forth in more detail herein for the fiscal year of 2014-15.

B. Consultant is duly licensed and has the necessary qualifications to provide such services.

C. The Parties desire by this Agreement to establish the terms for Metro JPA to retain Consultant to provide the services described herein.

AGREEMENT

NOW THEREFORE, IT IS AGREED AS FOLLOWS:

1. Services.

Consultant shall provide the Metro JPA with the services described in the Scope of Services attached hereto as Exhibit "A" and incorporated herein ("Services").

2. Compensation.

a. Subject to paragraph 2(b) below, the Metro JPA shall pay for such services in accordance with the Schedule of Charges set forth in Exhibit "B," attached hereto and incorporated herein by reference.

b. In no event shall the total amount paid for services rendered by Consultant pursuant to Exhibits "A" and "B" exceed the sum of \$161,490.00 for fiscal year 2014-15. Periodic payments shall be made within thirty (30) days of receipt of a statement for services rendered. Payments to Consultant for work performed will be made on a monthly billing basis.

3. Additional Work.

If changes in the work seem merited by Consultant or the Metro JPA, and informal consultations with the other Party indicate that a change is warranted, it shall be processed by the Metro JPA in the following manner: a letter outlining the changes shall be forwarded to the Metro JPA by Consultant with a statement of estimated changes in fee or time schedule. An amendment to this Agreement shall be prepared by the Metro JPA and executed by both Parties before performance of such services, or the Metro JPA will not be required to pay for the changes in the scope of work. Such amendment shall not render ineffective or invalidate unaffected portions of this Agreement.

4. Maintenance of Records.

Books, documents, papers, accounting records, and other evidence pertaining to costs incurred shall be maintained by Consultant and made available at all reasonable times during the Agreement period and for four (4) years from the date of final payment under the Agreement for inspection by Metro JPA. Consultant shall obtain the written consent of Metro JPA prior to destroying any such records or any work product prepared by Consultant as a result of the Services provided under this Agreement.

5. Time of Performance; Term.

Consultant shall commence and perform its services in a prompt and timely manner upon execution of this Agreement. This Agreement shall terminate on June 30, 2015, unless otherwise extended by a written amendment signed by both Parties.

6. Delays in Performance.

Neither Metro JPA nor Consultant shall be considered in default of this Agreement for delays in performance caused by circumstances beyond the reasonable control of the non-performing Party. For purposes of this Agreement, such circumstances include but are not limited to, abnormal weather conditions; floods; earthquakes; fire; epidemics; war; riots and other civil disturbances; strikes, lockouts, work slowdowns, and other labor disturbances; and sabotage or judicial restraint.

Should such circumstances occur, the non-performing Party shall, within a reasonable time of being prevented from performing, give written notice to the other Party describing the circumstances preventing continued performance and the efforts being made to resume performance of this Agreement.

7. Compliance with Law.

Consultant shall comply with all applicable laws, ordinances, codes and regulations of the federal, state and local government.

8. Standard of Care.

Consultant's services will be performed in accordance with generally accepted professional practices and principles and in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions.

9. Assignment and Subconsultant.

Consultant shall not assign, sublet, or transfer this Agreement or any rights under or interest in this Agreement without the written consent of the Metro JPA, which may be withheld for any reason. Nothing contained herein shall prevent Consultant from employing independent associates, and subconsultants as Consultant may deem appropriate to assist in the performance of services hereunder.

10. Independent Consultant.

Consultant is retained as an independent contractor and is not an employee of Metro JPA. No employee or agent of Consultant shall become an employee of Metro JPA. The work to be performed shall be in accordance with the work described in Exhibit "A," subject to such directions and amendments from Metro JPA as herein provided.

11. Integration.

This Agreement represents the entire understanding of Metro JPA and Consultant as to those matters contained herein, and supersedes and cancels any prior oral or written understanding, promises or representations with respect to those matters covered hereunder. This Agreement may not be modified or altered except in writing signed by both Parties hereto. This is an integrated Agreement.

12. Insurance.

a. Commercial General Liability.

(i) The Consultant shall take out and maintain, during the performance of all work under this Agreement, Commercial General Liability Insurance, in a form and with insurance companies acceptable to the Metro JPA.

(ii) Coverage for Commercial General Liability insurance shall be at least as broad as the following:

(1) Insurance Services Office Commercial General Liability coverage (Occurrence Form CG 0001) or exact equivalent

(2) The policy shall contain no endorsements or provisions (A) limiting coverage for contractual liability; (B) excluding cross liability for claims or suits by one insured against another; or (C) containing any other exclusion(s) contrary to the terms or purposes of this Agreement.

(iii) Commercial General Liability Insurance must include coverage for the following:

- (1) Bodily Injury and Property Damage
- (2) Personal Injury/Advertising Injury
- (3) Premises/Operations Liability
- (4) Products/Completed Operations Liability
- (5) Aggregate Limits that Apply
- (6) Contractual Liability with respect to this Agreement
- (7) Broad Form Property Damage
- (8) Independent Consultants Coverage

(iv) All such policies shall name the Metro JPA, the Board and each member of the Board, its officers, employees, agents and Metro JPA designated volunteers as Additional Insureds under the policy using ISO endorsement forms CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage.

(v) The general liability program may utilize either deductibles or provide coverage excess of a self-insured retention, subject to written approval by the Metro JPA, and provided that deductibles shall not apply to Metro JPA as an additional insured.

b. Automobile Liability.

(i) At all times during the performance of the work under this Agreement, the Consultant shall maintain Automobile Liability Insurance for bodily injury and property damage including coverage for owned, non-owned and hired vehicles, in a form and with insurance companies acceptable to the Metro JPA.

(ii) Coverage for Automobile Liability Insurance shall be at least as broad as Insurance Services Office Form Number CA 0001 (ed. 12/93) covering automobile liability, Code 1 (any auto).

(iii) The automobile liability program may utilize deductibles, but not a self-insured retention, subject to written approval by the Metro JPA, and provided that deductibles shall not apply to Metro JPA as an additional insured.

(iv) All such policies shall name the Metro JPA, the Board and each member of the Board, its officers, employees, agents and Metro JPA designated volunteers as Additional Insureds under the policies.

c. Workers' Compensation/Employer's Liability.

(i) At all times during the performance of Services under this Agreement, the Consultant shall maintain Workers' Compensation Insurance in compliance with applicable statutory requirements and Employer's Liability Coverage in amounts indicated herein.

(ii) Such insurance shall include an insurer's Waiver of Subrogation in favor of the Metro JPA and will be in a form and with insurance companies acceptable to the Metro JPA.

(iii) If insurance is maintained, the Workers' Compensation and Employer's Liability program may utilize either deductibles or provide coverage excess of a self-insured retention, subject to written approval by the Metro JPA.

(iv) Before beginning work, the Consultant shall furnish to the Metro JPA satisfactory proof that the Consultant has taken out for the period covered by the work under this Agreement, full compensation insurance for all persons employed directly by the Consultant or through subconsultants in carrying out the work contemplated under this Agreement, all in accordance with the "Workers' Compensation and Insurance Act," Division IV or the Labor Code of the State of California and any acts amendatory thereof. Consultant shall require all subconsultants to obtain and maintain workers' compensation coverage of the same type and limits as specified in this section.

d. Professional Liability (Errors and Omissions).

At all times during the performance of the work under this Agreement the Consultant shall maintain Professional Liability Insurance or Errors and Omissions Insurance appropriate to its profession, in a form and with insurance companies acceptable to Metro JPA and in an amount indicated herein. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form specifically designed to protect against acts, errors or omissions of the Consultant. "Covered Professional Services" as designated in the policy must specifically include work performed under this Agreement. The policy must "pay on behalf of" the insured and must include a provision establishing the insurer's duty to defend. The retroactive date, if any, of each such policy is to be no later than the effective date of this Agreement, and Consultant shall maintain such coverage continuously for a period of at least three (3) years following the completion of work under this Agreement.

e. Public Liability, Property Damage, Automobile Liability, Employer's Liability, and Professional Liability (Errors and Omissions).

(i) The following insurance limits are required for the Agreement:

	<u>Combined Single Limit</u>
Commercial General Liability	\$1,000,000 per occurrence/ \$2,000,000 aggregate for bodily injury, personal injury, and property damage
Automobile Liability	\$1,000,000 per occurrence for bodily injury and property damage
Employer's Liability	\$1,000,000 per occurrence

Professional Liability

\$1,000,000 per claim and aggregate (errors and omissions)

(ii) Defense costs shall be payable in addition to the limits.

(iii) Requirement of specific coverage or minimum limits contained in this Agreement are not intended as a limitation on coverage, limits or any other requirement, or a waiver of any coverage normally provided by any insurance.

f. Evidence Required.

Prior to execution of the Agreement, the Consultant shall file with the Metro JPA evidence of insurance from an insurer or insurers certifying to the coverage of all insurance required herein. Such evidence shall include original copies of the ISO CG 2010 (or insurer's equivalent) signed by the insurer's representative and Certificate of Insurance (Acord Form 25-S or equivalent), together with all endorsements to the policies described therein. All evidence of insurance shall be certified by a properly authorized officer, agent, or qualified representative of the insurer and shall certify the names of the insured, any additional primary insureds, where appropriate, the type and amount of the insurance, the location and operations to which the insurance applies, and the expiration date of such insurance.

g. Policy Provisions Required.

(i) All policies shall contain a provision for thirty (30) days advance written notice by the insurer(s) to the Metro JPA of any cancellation. Statements that the carrier "will endeavor" and "that failure to mail such notice shall impose no obligation and liability upon the company, its agents or representatives," will not be acceptable on certificates. In the event any insurer providing coverage required under this Agreement shall fail to provide the notice required in this section, Consultant shall be responsible to provide such notice to the Metro JPA. Consultant is responsible to replace any and all policies required under this Agreement which are cancelled during the term of this Agreement no later than the effective date of cancellation.

(ii) All policies of Commercial General Liability and Automobile Liability insurance shall contain a provision stating that the Consultant's policies are primary insurance and the insurance of the Metro JPA or any named insureds shall not be called upon to contribute to any loss.

(iii) All policies of Commercial General Liability and Automobile Liability insurance shall contain or shall be endorsed to contain a waiver of subrogation against the Metro JPA, the Board and each member of the Board, its officers, employees, agents and Metro JPA designated volunteers; or shall specifically allow Counsltant to waive its right of recovery prior to a loss, and Consultant hereby waives its own right of recovery against Metro JPA, the Board and each member of the Board, its officers, employees, agents and Metro JPA designated volunteers, and shall require similar waivers from each of its subconsultants.

h. Qualifying Insurers.

(i) All policies required shall be issued by acceptable insurance companies, as determined by the Metro JPA, which satisfy the following minimum requirements:

(ii) Insurance carriers shall be admitted to do business in California or otherwise allowed to place insurance through surplus line brokers under applicable provisions of the California Insurance Code or any federal law. Such insurance carrier shall have not less than an "A-" policyholder's rating and a financial rating of not less than "Class VII" according to the latest Best Key Rating Guide.

i. Additional Insurance Provisions.

(i) The foregoing requirements as to the types and limits of insurance coverage to be maintained by Consultant, and any approval of said insurance by the Metro JPA, is not intended to and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by the Consultant pursuant to this Agreement, including but not limited to, the provisions concerning indemnification. Neither the Metro JPA nor the Board, nor any member of the Board, nor any of the directors, officers, employees, agents or volunteers shall be personally responsible for any liability arising under or by virtue of the Agreement.

(ii) If at any time during the life of the Agreement, the Consultant fails to maintain in full force any insurance required by the Agreement documents, the Metro JPA has the right but not the duty to acquire the necessary insurance for the Consultant and deduct the cost thereof from the appropriate progress payments due the Consultant, or backcharge the Consultant for such costs in the event they exceed the amount of unpaid progress payments due the Consultant. In the alternative, Metro JPA may cancel this Agreement.

(iii) The Consultant shall include all subconsultants as insureds under its policies or shall furnish separate certificates and endorsements for each subconsultant. All coverages for subconsultants shall be subject to all of the requirements stated herein unless otherwise agreed in writing by the Metro JPA. All policies of Commercial General Liability insurance provided by subconsultants shall name the Metro JPA as an additional insured using endorsement form ISO CG 20 38 04 13 or an endorsement providing equivalent coverage.

(iv) The Metro JPA may require the Consultant to provide complete copies of all insurance policies in effect for the duration of the Agreement.

13. Indemnification.

To the fullest extent permitted by law, Consultant agrees to protect, save, defend and hold harmless Metro JPA and its Board and each member of the Board, officers, agents and employees from any and all claims, liabilities, expenses or damages of any nature, including attorneys' fees, for injury or death of any person, or damage to property, or interference with use of property, including loss of use, arising out of or in any way connected with the negligent performance or willful misconduct under this Agreement by Consultant, Consultant's agents, officers, employees, subconsultants, or independent consultants hired by Consultant. The only exception to Consultant's responsibility to protect, save, defend and hold harmless Metro JPA, is

due to the sole negligence, willful misconduct or active negligence of Metro JPA. This hold harmless provision shall apply to all liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by Consultant.

14. Laws, Venue, and Attorneys' Fees.

This Agreement shall be interpreted in accordance with the laws of the State of California. If any action is brought to interpret or enforce any term of this agreement, the action shall be brought in a state or federal court situated in the County of San Diego, State of California. In the event of any such litigation between the Parties, the prevailing party shall be entitled to recover all reasonable costs incurred, including reasonable attorney's fees, as determined by the court.

15. Termination or Abandonment.

a. Metro JPA has the right to terminate or abandon any portion or all of the work under this Agreement by giving ten (10) calendar days' written notice to Consultant. In such event, Metro JPA shall be immediately given title and possession to all original field notes, drawings and specifications, written reports and other documents produced or developed for that portion of the work completed and/or being abandoned. Metro JPA shall pay Consultant the reasonable value of services rendered for any portion of the work completed prior to termination. If said termination occurs prior to completion of any task for which a payment request has not been received, the charge for services performed during such task shall be the reasonable value of such services, based on an amount mutually agreed to by Metro JPA and Consultant of the portion of such task completed but not paid prior to said termination. Metro JPA shall not be liable for any costs other than the charges or portions thereof which are specified herein. Consultant shall not be entitled to payment for unperformed services, and shall not be entitled to damages or compensation for termination of work.

b. Consultant may terminate its obligation to provide further services under this Agreement upon thirty (30) calendar days' written notice to Metro JPA only in the event of substantial failure by Metro JPA to perform in accordance with the terms of this Agreement through no fault of Consultant.

16. Notice.

Any notice or instrument required to be given or delivered by this Agreement may be given or delivered by depositing the same in any United States Post Office, certified mail, return receipt requested, postage prepaid, addressed to:

METRO JPA:	CONSULTANT:
Metro Wastewater JPA c/o La Mesa City Hall 8130 Allison Ave., La Mesa, CA 91942 Attn: c/o Greg Humora, City of La Mesa	Atkins North America, Inc. 3570 Carmel Mountain Road, Suite 300 San Diego, CA 92130 Attn: Karyn Keese

and shall be effective upon receipt thereof.

17. Data.

Consultant shall be entitled to rely upon the accuracy of data and information provided by the Metro JPA without independent review or evaluation unless such review or evaluation is specified in the scope of services.

18. Third Party Rights.

Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than the Metro JPA and the Consultant.

19. Termination of Prior Agreements.

The Parties agree that upon executing this Agreement, the Agreement for Professional Services entered into June 6, 2013, by and between the Parties, and prior versions thereof, shall terminate.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the date first written above.

METRO WASTEWATER JPA:

ATKINS NORTH AMERICA INC.:

By: _____
Cheryl Cox
Chairperson

By: _____

APPROVED AS TO FORM:

Paula C. P. de Sousa
General Counsel
METRO WASTEWATER JPA

EXHIBIT “A”
Scope of Services

EXHIBIT “B”

Schedule of Charges/Payments

**AGREEMENT FOR PROFESSIONAL SERVICES
BETWEEN METRO WASTEWATER JOINT POWERS AUTHORITY
AND ATKINS NORTH AMERICA, INC.**

This agreement ("Agreement") is made and entered into as of _____, ~~2013~~2014, by and between the METRO WASTEWATER JOINT POWERS AUTHORITY (hereinafter referred to as the "Metro JPA"), a joint powers authority organized and operating pursuant to California Government Code section 6500 *et seq.*, and ATKINS NORTH AMERICA, INC. (hereinafter referred to as "Consultant"). Metro JPA and Consultant are sometimes referred to individually as "Party" and collectively as "Parties."

RECITALS

A. The Metro JPA would like to retain the services of Consultant to provide as-needed technical, financial and administrative support services as set forth in more detail herein for the fiscal year of ~~2013~~2014-1415.

B. Consultant is duly licensed and has the necessary qualifications to provide such services.

C. The Parties desire by this Agreement to establish the terms for Metro JPA to retain Consultant to provide the services described herein.

AGREEMENT

NOW, THEREFORE, IT IS AGREED AS FOLLOWS:

1. Services.

Consultant shall provide the Metro JPA with the services described in the Scope of Services attached hereto as Exhibit "A" and incorporated herein ("Services").

2. Compensation.

a. Subject to paragraph 2(b) below, the Metro JPA shall pay for such services in accordance with the Schedule of Charges set forth in Exhibit "B," attached hereto and incorporated herein by reference.

b. In no event shall the total amount paid for services rendered by Consultant pursuant to Exhibits "A" and "B" exceed the sum of \$~~INSERT AMOUNT; PREVIOUS AMOUNT IN 2012 AGREEMENT WAS \$129,192.00~~161,490.00 for fiscal year ~~2013~~2014-1415. Periodic payments shall be made within thirty (30) days of receipt of a statement for services rendered. Payments to Consultant for work performed will be made on a monthly billing basis.

3. Additional Work.

If changes in the work seem merited by Consultant or the Metro JPA, and informal consultations with the other Party indicate that a change is warranted, it shall be processed by the Metro JPA in the following manner: a letter outlining the changes shall be forwarded to the Metro JPA by Consultant with a statement of estimated changes in fee or time schedule. An amendment to this Agreement shall be prepared by the Metro JPA and executed by both Parties before performance of such services, or the Metro JPA will not be required to pay for the changes in the scope of work. Such amendment shall not render ineffective or invalidate unaffected portions of this Agreement.

4. Maintenance of Records.

Books, documents, papers, accounting records, and other evidence pertaining to costs incurred shall be maintained by Consultant and made available at all reasonable times during the Agreement period and for four (4) years from the date of final payment under the Agreement for inspection by Metro JPA. Consultant shall obtain the written consent of Metro JPA prior to destroying any such records or any work product prepared by Consultant as a result of the Services provided under this Agreement.

5. Time of Performance; Term.

Consultant shall commence and perform its services in a prompt and timely manner upon execution of this Agreement. This Agreement shall terminate on June 30, ~~2014~~2015, unless otherwise extended by a written amendment signed by both Parties.

6. Delays in Performance.

Neither Metro JPA nor Consultant shall be considered in default of this Agreement for delays in performance caused by circumstances beyond the reasonable control of the non-performing Party. For purposes of this Agreement, such circumstances include but are not limited to, abnormal weather conditions; floods; earthquakes; fire; epidemics; war; riots and other civil disturbances; strikes, lockouts, work slowdowns, and other labor disturbances; and sabotage or judicial restraint.

Should such circumstances occur, the non-performing Party shall, within a reasonable time of being prevented from performing, give written notice to the other Party describing the circumstances preventing continued performance and the efforts being made to resume performance of this Agreement.

7. Compliance with Law.

Consultant shall comply with all applicable laws, ordinances, codes and regulations of the federal, state and local government.

8. Standard of Care.

Consultant's services will be performed in accordance with generally accepted professional practices and principles and in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions.

9. Assignment and Subconsultant.

Consultant shall not assign, sublet, or transfer this Agreement or any rights under or interest in this Agreement without the written consent of the Metro JPA, which may be withheld for any reason. Nothing contained herein shall prevent Consultant from employing independent associates, and subconsultants as Consultant may deem appropriate to assist in the performance of services hereunder.

10. Independent Consultant.

Consultant is retained as an independent ~~Consultant~~contractor and is not an employee of Metro JPA. No employee or agent of Consultant shall become an employee of Metro JPA. The work to be performed shall be in accordance with the work described in Exhibit "A," subject to such directions and amendments from Metro JPA as herein provided.

11. Integration.

This Agreement represents the entire understanding of Metro JPA and Consultant as to those matters contained herein, and supersedes and cancels any prior oral or written understanding, promises or representations with respect to those matters covered hereunder. This Agreement may not be modified or altered except in writing signed by both Parties hereto. This is an integrated Agreement.

12. Insurance.

a. Commercial General Liability.

(i) The Consultant shall take out and maintain, during the performance of all work under this Agreement, Commercial General Liability Insurance, in a form and with insurance companies acceptable to the Metro JPA.

(ii) Coverage for Commercial General Liability insurance shall be at least as broad as the following:

(1) Insurance Services Office Commercial General Liability coverage (Occurrence Form CG 0001) or exact equivalent

(2) The policy shall contain no endorsements or provisions (A) limiting coverage for contractual liability; (B) excluding cross liability for claims or suits

by one insured against another; or (C) containing any other exclusion(s) contrary to the terms or purposes of this Agreement.

(iii) Commercial General Liability Insurance must include coverage for the following:

- (1) Bodily Injury and Property Damage
- (2) Personal Injury/Advertising Injury
- (3) Premises/Operations Liability
- (4) Products/Completed Operations Liability
- (5) Aggregate Limits that Apply
- (6) Contractual Liability with respect to this Agreement
- (7) Broad Form Property Damage
- (8) Independent Consultants Coverage

(iv) All such policies shall name the Metro JPA, the Board and each member of the Board, its officers, employees, agents and Metro JPA designated volunteers as Additional Insureds under the policy using ISO endorsement forms CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage.

(v) The general liability program may utilize either deductibles or provide coverage excess of a self-insured retention, subject to written approval by the Metro JPA, and provided that deductibles shall not apply to Metro JPA as an additional insured.

b. Automobile Liability.

(i) At all times during the performance of the work under this Agreement, the Consultant shall maintain Automobile Liability Insurance for bodily injury and property damage including coverage for owned, non-owned and hired vehicles, in a form and with insurance companies acceptable to the Metro JPA.

(ii) Coverage for Automobile Liability Insurance shall be at least as broad as Insurance Services Office Form Number CA 0001 (ed. 12/93) covering automobile liability, Code 1 (any auto).

(iii) The automobile liability program may utilize deductibles, but not a self-insured retention, subject to written approval by the Metro JPA, and provided that deductibles shall not apply to Metro JPA as an additional insured.

(iv) All such policies shall name the Metro JPA, the Board and each member of the Board, its officers, employees, agents and Metro JPA designated volunteers as Additional Insureds under the policies.

c. Workers' Compensation/Employer's Liability.

(i) At all times during the performance of Services under this Agreement, the Consultant shall maintain Workers' Compensation Insurance in compliance

with applicable statutory requirements and Employer's Liability Coverage in amounts indicated herein.

(ii) Such insurance shall include an insurer's Waiver of Subrogation in favor of the Metro JPA and will be in a form and with insurance companies acceptable to the Metro JPA.

(iii) If insurance is maintained, the Workers' Compensation and Employer's Liability program may utilize either deductibles or provide coverage excess of a self-insured retention, subject to written approval by the Metro JPA.

(iv) Before beginning work, the Consultant shall furnish to the Metro JPA satisfactory proof that ~~he/she~~the Consultant has taken out for the period covered by the work under this Agreement, full compensation insurance for all persons employed directly by ~~him/her~~the Consultant or through subconsultants in carrying out the work contemplated under this Agreement, all in accordance with the "Workers' Compensation and Insurance Act," Division IV or the Labor Code of the State of California and any acts amendatory thereof. Consultant shall require all subconsultants to obtain and maintain workers' compensation coverage of the same type and limits as specified in this section.

d. Professional Liability (Errors and Omissions).

At all times during the performance of the work under this Agreement the Consultant shall maintain Professional Liability Insurance or Errors and Omissions Insurance appropriate to its profession, in a form and with insurance companies acceptable to Metro JPA and in an amount indicated herein. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form specifically designed to protect against acts, errors or omissions of the Consultant. "Covered Professional Services" as designated in the policy must specifically include work performed under this Agreement. The policy must "pay on behalf of" the insured and must include a provision establishing the insurer's duty to defend. The retroactive date, if any, of each such policy is to be no later than the effective date of this Agreement, and Consultant shall maintain such coverage continuously for a period of at least three (3) years following the completion of work under this Agreement.

e. Public Liability, Property Damage, Automobile Liability, Employer's Liability, and Professional Liability (Errors and Omissions).

(i) The following insurance limits are required for the Agreement:

Combined Single Limit

Commercial General Liability	\$1,000,000 per occurrence/ \$2,000,000 aggregate for bodily injury, personal injury, and property damage
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Automobile Liability	\$1,000,000 per occurrence for bodily injury and property damage
Employer's Liability	\$1,000,000 per occurrence
Professional Liability	\$1,000,000 per claim and aggregate (errors and omissions)

(ii) Defense costs shall be payable in addition to the limits.

(iii) Requirement of specific coverage or minimum limits contained in this Agreement are not intended as a limitation on coverage, limits or any other requirement, or a waiver of any coverage normally provided by any insurance.

f. Evidence Required.

Prior to execution of the Agreement, the Consultant shall file with the Metro JPA evidence of insurance from an insurer or insurers certifying to the coverage of all insurance required herein. Such evidence shall include original copies of the ISO CG 2010 (or insurer's equivalent) signed by the insurer's representative and Certificate of Insurance (Acord Form 25-S or equivalent), together with all endorsements to the policies described therein. All evidence of insurance shall be certified by a properly authorized officer, agent, or qualified representative of the insurer and shall certify the names of the insured, any additional primary insureds, where appropriate, the type and amount of the insurance, the location and operations to which the insurance applies, and the expiration date of such insurance.

g. Policy Provisions Required.

(i) All policies shall contain a provision for thirty (30) days advance written notice by the insurer(s) to the Metro JPA of any cancellation. Statements that the carrier "will endeavor" and "that failure to mail such notice shall impose no obligation and liability upon the company, its agents or representatives," will not be acceptable on certificates. In the event any insurer providing coverage required under this Agreement shall fail to provide the notice required in this section, Consultant shall be responsible to provide such notice to the Metro JPA. Consultant is responsible to replace any and all policies required under this Agreement which are cancelled during the term of this Agreement no later than the effective date of cancellation.

(ii) All policies of Commercial General Liability and Automobile Liability insurance shall contain a provision stating that the Consultant's policies are primary insurance and the insurance of the Metro JPA or any named insureds shall not be called upon to contribute to any loss.

(iii) All policies of Commercial General Liability and Automobile Liability insurance shall contain or shall be endorsed to contain a waiver of subrogation against the Metro JPA, the Board and each member of the Board, its officers, employees, agents and Metro JPA designated volunteers; or shall specifically allow Counsltant to waive its right of recovery prior to a loss, and Consultant hereby waives its own right of recovery

against Metro JPA, the Board and each member of the Board, its officers, employees, agents and Metro JPA designated volunteers, and shall require similar waivers from each of its subconsultants.

h. Qualifying Insurers.

(i) All policies required shall be issued by acceptable insurance companies, as determined by the Metro JPA, which satisfy the following minimum requirements:

(ii) Insurance carriers shall be ~~qualified~~admitted to do business in California ~~and maintain an agent for process within the state~~or otherwise allowed to place insurance through surplus line brokers under applicable provisions of the California Insurance Code or any federal law. Such insurance carrier shall have not less than an “A-” policyholder’s rating and a financial rating of not less than “Class VII” according to the latest Best Key Rating Guide.

i. Additional Insurance Provisions.

(i) The foregoing requirements as to the types and limits of insurance coverage to be maintained by Consultant, and any approval of said insurance by the Metro JPA, is not intended to and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by the Consultant pursuant to this Agreement, including but not limited to, the provisions concerning indemnification. Neither the Metro JPA nor the Board, nor any member of the Board, nor any of the directors, officers, employees, agents or volunteers shall be personally responsible for any liability arising under or by virtue of the Agreement.

(ii) If at any time during the life of the Agreement, the Consultant fails to maintain in full force any insurance required by the Agreement documents, the Metro JPA ~~may~~has the right but not the duty to acquire the necessary insurance for the Consultant and deduct the cost thereof from the appropriate progress payments due the Consultant, ~~or backcharge the Consultant for such costs in the event they exceed the amount of unpaid progress payments due the Consultant.~~ In the alternative, Metro JPA may cancel this Agreement.

(iii) The Consultant shall include all subconsultants as insureds under its policies or shall furnish separate certificates and endorsements for each subconsultant. All coverages for subconsultants shall be subject to all of the requirements stated herein: ~~unless otherwise agreed in writing by the Metro JPA.~~ All policies of Commercial General Liability insurance provided by subconsultants shall name the Metro JPA as an additional insured using endorsement form ISO CG 20 38 04 13 or an endorsement providing equivalent coverage.

(iv) The Metro JPA may require the Consultant to provide complete copies of all insurance policies in effect for the duration of the Agreement.

13. Indemnification.

To the fullest extent permitted by law, Consultant agrees to protect, save, defend and hold harmless Metro JPA and its Board and each member of the Board, officers, agents and employees from any and all claims, liabilities, expenses or damages of any nature, including attorneys' fees, for injury or death ~~or~~of any person, or damage to property, or interference with use of property, including loss of use, arising out of or in any way connected with the negligent performance or willful misconduct under this Agreement by Consultant, Consultant's agents, officers, employees, subconsultants, or independent consultants hired by Consultant. The only exception to Consultant's responsibility to protect, save, defend and hold harmless Metro JPA, is due to the sole negligence, willful misconduct or active negligence of Metro JPA. This hold harmless provision shall apply to all liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by Consultant.

14. Laws, Venue, and Attorneys' Fees.

This Agreement shall be interpreted in accordance with the laws of the State of California. If any action is brought to interpret or enforce any term of this agreement, the action shall be brought in a state or federal court situated in the County of San Diego, State of California. In the event of any such litigation between the Parties, the prevailing party shall be entitled to recover all reasonable costs incurred, including reasonable attorney's fees, as determined by the court.

15. Termination or Abandonment.

a. Metro JPA has the right to terminate or abandon any portion or all of the work under this Agreement by giving ten (10) calendar days' written notice to Consultant. In such event, Metro JPA shall be immediately given title and possession to all original field notes, drawings and specifications, written reports and other documents produced or developed for that portion of the work completed and/or being abandoned. Metro JPA shall pay Consultant the reasonable value of services rendered for any portion of the work completed prior to termination. If said termination occurs prior to completion of any task for which a payment request has not been received, the charge for services performed during such task shall be the reasonable value of such services, based on an amount mutually agreed to by Metro JPA and Consultant of the portion of such task completed but not paid prior to said termination. Metro JPA shall not be liable for any costs other than the charges or portions thereof which are specified herein. Consultant shall not be entitled to payment for unperformed services, and shall not be entitled to damages or compensation for termination of work.

b. Consultant may terminate its obligation to provide further services under this Agreement upon thirty (30) calendar days' written notice to Metro JPA only in the event of substantial failure by Metro JPA to perform in accordance with the terms of this Agreement through no fault of Consultant.

16. Notice.

Any notice or instrument required to be given or delivered by this Agreement may be given or delivered by depositing the same in any United States Post Office, certified mail, return receipt requested, postage prepaid, addressed to:

METRO JPA:	CONSULTANT:
Metro Wastewater JPA c/o La Mesa City Hall 8130 Allison Ave., La Mesa, CA 91942 Attn: c/o Greg Humora, City of La Mesa	Atkins North America, Inc. 3570 Carmel Mountain Road, Suite 300 San Diego, CA 92130 Attn: Karyn Keese

and shall be effective upon receipt thereof.

17. Data.

Consultant shall be entitled to rely upon the accuracy of data and information provided by the Metro JPA without independent review or evaluation unless such review or evaluation is specified in the scope of services.

18. Third Party Rights.

Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than the Metro JPA and the Consultant.

19. Termination of Prior Agreements.

The Parties agree that upon executing this Agreement, the Agreement for Professional Services entered into June 7~~6~~⁶, ~~2012~~²⁰¹³, by and between the Parties, and prior versions thereof, shall terminate.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the date first written above.

METRO WASTEWATER JPA:

ATKINS NORTH AMERICA INC.:

By: _____
Cheryl Cox
Chairperson

By: _____

APPROVED AS TO FORM:

Paula C. P. de Sousa
General Counsel
METRO WASTEWATER JPA

EXHIBIT "A"
Scope of Services

EXHIBIT “B”

Schedule of Charges/Payments

Summary Report: Litéra® Change-Pro 7.0.0.400 Document Comparison done on 4/8/2014 12:14:50 PM	
Style Name: Default Style	
Original DMS: iw://iManage/iManage/7911831/3	
Modified DMS: iw://iManage/iManage/8700861/5	
Changes:	
Add	62
Delete	21
Move From	0
Move To	0
Table Insert	0
Table Delete	0
Table moves to	0
Table moves from	0
Embedded Graphics (Visio, ChemDraw, Images etc.)	0
Embedded Excel	0
Format Changes	0
Total Changes:	83

SCOPE OF SERVICES
METRO TAC/COMMISSION/JPA
AS-NEEDED ENGINEERING AND FINANCIAL SERVICES

April 11, 2014

The purpose of the As-Needed Consulting Contract for the Metro Wastewater JPA/Commission is to provide technical and financial support to the PAs in meeting their objectives of fair rates, equitable cost sharing, and program validation. The intention of the As-Needed Contract is to provide review and oversight of the San Diego Metropolitan Sewer System (Metro System) Program with a minimum of duplication by the PAs. By combining the efforts of the PAs into a central focal point, our goal is to assist in increasing the responsiveness of the group to key issues of concern, ensure coverage at key meetings, centralize the data collection, minimize duplication of efforts by the PAs, and reduce the costs of both Metro TAC/Commission/JPA efforts, as well as the overall costs of the Metro Program.

I. Scope of Services

The effort by ATKINS will be divided into five major categories, one for routine services, two for specific financial tasks, one for anticipated technical tasks, and one for Metro TAC engineering support.

A. Routine Meetings

The routine meetings will include the following tasks:

1. Attendance at the Metro TAC meetings, preparation of minutes and agendas.
2. Attendance and preparation of agendas for the Metro Commission/JPA meetings.
3. Prepare agendas, minutes, and technical support to the Metro Finance Committee.
4. Attendance at Pure Water Program AdHoc and Steering Committee meetings.

B. Routine Audit Review – Public Utilities Department (PUD), Wastewater Operations Branch Exhibit E Audit Review – FYEs 2013 and 2014

1. Review and negotiate the auditors Scope of Work
2. Attend Entrance and Exit Conferences with the Auditors
3. Select audit sample
4. Attend Interim Bi-Weekly work meetings with the Auditors (maximum of 5 per

audit)

5. Review the Draft and Final Audit numbers and test results
6. Review all audit samples for contract compliance and accounting accuracy
7. Review the annual general services cost allocation
8. Review output for any special projects (In the past this has included the reconciliation of the Shames and other municipal lawsuits, and the Clean Water Program management contract to insure that only Metro costs have/had been charged to the PAs)
9. Present the results to the Metro Finance Committee, Metro TAC, and Metro Wastewater JPA / Commission
10. Review final closeout of 2009 to 2012 open audits to insure Padre Dam and North City adjustments are correctly applied to each PA
11. Monitor closeout process to insure timely payment of refunds (if any) and the accuracy of any additional billings' (if any) to PAs

C. Routine Review of MWWD Budget – FYE 2015

1. Line item review of the proposed CIP projects to verify that they are a part of the Wastewater Agreement. Provide a preliminary review of the O&M costs to identify areas of concern for the PAs
2. Identify budget items that show major deviation from previous years, and discuss these deviations with the City
3. Attend meetings with the City of San Diego Public Utilities staff to identify the nature and magnitude of the budget items
4. Provide updates on budget issues to the Metro TAC, the Finance Committee, and the Metro Wastewater JPA/Commission meetings

D. 2014 Wastewater Rate Case – During 2013 and 2014 outside consultants have been preparing the PUD's wastewater rate case. Preliminary results on the first of three steps in the rate case process (revenue requirement) were released in March 2013. Atkins is working with the IROC Finance Committee to provide in-depth review of the Rate Case during fiscal year ending 2014 to insure that Metro Commission/JPA interests are considered and included. It is anticipated by PUD staff that the rate case will be completed in FYE 2015.

E. FYE 2015 Recycled Water Financial Projects

1. Continued Support and Resolution of Recycled Water Contractual Issues – During FYE 2011 the City's Public Utilities Director recognized the PAs right to the revenues from the sales of recycled water at the South Bay plant. The sales of recycled water will be included starting with the 2009 audit as an

income credit. However several housekeeping issues remain to be resolved such as the completion of the repayment schedule for the North City Optimized System Debt and continued discussions over allocation of the capacity reservation leases paid by Otay Water District and Olivenhain Municipal Water District. Atkins will support the effort in resolving these issues in FYE 2014. (Note: This is ongoing from FYE 2013).

2. Review of Recycled Water Pricing Study – In December 2009 the City asked its consultant to address the difference between wholesale and retail customers and their recycled water rates. The City's original proposed unitary rate structure is of major concern to the PAs. A second draft of the pricing study was received but was not considered acceptable by the PAs. PUD has since retained another consultant and the draft of this report is due in late FYE2014.

The PAs goal for this study is to insure that the rates are fair and equitable to all parties, and set at appropriate levels that balance the facilitation of increased use of recycled water per the City's agreement with the environmental community, while providing additional monies to operate the system. Atkins will review the upcoming draft in-depth to insure that the PAs goals are reached. (Note: This is a carry-over from FYE 2014)

3. Recycled Water Cost Allocations – With the completion of the Recycled Water Master Plan, the next phase will be the possible implementation of selected capital projects. Atkins will provide a white paper to the Metro TAC and the Metro JPA/Commission on cost allocations used by other regional agencies such as West Basin Municipal Water District, the City of Los Angeles, and Los Angeles Water & Power for funding recycled water projects (i.e. what is a wastewater versus water expense for a capital projects). In addition, Atkins will work with the PUD and Metro TAC subcommittee to provide guidance regarding appropriate cost sharing allocations. (Note: This is ongoing from FYE 2014).

- F. Metro TAC Staff Support – This task includes 10 hours per month for unforeseen financial analysis and consulting. Atkins will support, as-needed, the items contained in the Metro TAC FYE 2015 Work plan. One key issue that will continue during FYE 2015 is the reallocation of Metro costs due to the overbilling of Padre Dam Municipal Water District for their sewage strengths. In addition, Brown & Caldwell have recently prepared a draft Metro Strength Billing Evaluation Report. This report contains recommendations for changes to the current strength based billing process as well as a billing issue regarding the recycled water flow at North City. Also, PUD staff will be updating the transportation rate. Atkins will review all calculations to insure that the billing issues, strength base billing changes, and changes to the transportation rate are appropriate.
- G. General Engineering Support – This task includes engineering technical support as requested by Metro TAC and the Metro Commission/JPA. This will include engineering support for such items as the next Waiver of Secondary Treatment at Point Loma and the "Secondary Equivalency Alternative" as outlined in the

Metro TAC white paper... This will also include representing the JPA on the Water Reliability Coalition through the Friends of Infrastructure and any meetings as directed by the Metro TAC and/or the Commission/JPA to facilitate the secondary equivalency alternative, etc.

II. ADDITIONAL SERVICES AS REQUESTED

- A. Participate in the MWWD Strategic Business Plan.
- B. Independent cost review of CIP.
- C. Review of ongoing background material not envisioned.
- D. Prepare for and attend additional meetings beyond what is included in Section I.
- E. Attendance at IROC in support of the Metro JPA/Commission representatives.
- F. Provide additional follow-up on the additional items identified.
- G. Provide additional technical support on specific projects as directed by the Metro TAC, Finance Committee, and Metro JPA/Commission Chairmen.
- H. Provide technical support, as requested, to fulfill other Metro JPA/Commission objectives.

Atkins North America
2015 Budget and 2014 Budget Versus Actual

FYE 2014 Budget			Budget As of March 2014				FYE 2015 Budget		
		FYE 2014 Budget	Spent	Remaining	% Spent	Months Elapsed		FYE 2015 Budget	Difference
1000	Routine Support Services Support MetroTAC Attend Metro Commission Support Metro Finance	\$ 30,040.00	\$ 22,467.50	\$ 7,572.50	75%	75%	1000	Routine Support Services Support MetroTAC Attend Metro Commission Support Metro Finance Support AdHoc	\$ 39,160 \$ 9,120
2000	2011,2012, 2013 Audits Review & Edit Audit Scope Entrance/Exit Conference Interim Work Meetings Review Draft & Final Numbers Special Audit Projects Prepare Report/Presentation Present Metro TAC/Metro Com.	\$ 26,600.00	\$ 16,625.00	\$ 9,975.00	63%	75%	2000	2013 & 2014 Audits Review & Edit Audit Scope Entrance/Exit Conference Interim Work Meetings Review Draft & Final Numbers Special Audit Projects Prepare Report/Presentation Present Metro TAC/Metro Com. Final Closeout of 2009 to 2012	\$ 26,600 \$ -
3000	Budget & CIP Review	\$ 6,080.00		\$ 6,080.00	0%	75%	3000	Budget & CIP Review	\$ 6,080 \$ -
4000	Special Projects						4000	Special Projects	
4001	General Metro TAC Support	\$ 14,080.00	\$ 37,617.50	\$ (23,537.50)	267%	75%	4001	General Metro TAC Support	\$ 22,800 \$ 8,720
4002	Rate Case & Rate Case Audit	\$ 8,740.00		\$ 8,740.00	0%	75%	4002	Rate Case & Rate Case Audit	\$ 8,740 \$ -
4003	Resolve Reclaimed Issues	\$ 8,740.00		\$ 8,740.00	0%	75%	4003	Resolve Reclaimed Issues	\$ 8,740 \$ -
4004	Reclaimed Water Pricing Study	\$ 7,600.00		\$ 7,600.00	0%	75%	4004	Reclaimed Water Pricing Study	\$ 7,600 \$ -
4005	Reclaimed Cost Allocations	\$ 11,400.00		\$ 11,400.00	0%	75%	4005	Reclaimed Cost Allocations	\$ 11,400 \$ -
5000	Engineering Support	\$ 15,150.00	\$ 42,900.00	\$ (27,750.00)	283%	75%	5000	Engineering Support	\$ 29,608 \$ 14,458
	Direct Expenses	\$ 762.00	\$ 1,473.49	\$ (711.49)	193%	75%		Direct Expenses	\$ 762 \$ -
Total		\$ 129,192.00	\$ 121,083.49	\$ 8,108.51			Total		\$ 161,490 \$ 32,298

94% 6%

\$ 161,490.00

**FIRST AMENDMENT TO THE AGREEMENT FOR
TREASURER SERVICES BETWEEN METRO
WASTEWATER JOINT POWERS AUTHORITY AND
PADRE DAM MUNICIPAL WATER DISTRICT**

THIS FIRST AMENDMENT is made and entered into this ____ day of _____, 2014, by and between the Metro Wastewater Joint Powers Authority (hereinafter referred to as "Metro JPA"), a joint powers authority organized and operating pursuant to California Government Code section 6500 *et seq.*, and the Padre Dam Municipal Water District (hereinafter referred to as the "District").

RECITALS

A. WHEREAS, Metro JPA and the District did enter into an agreement for treasurer services (hereinafter referred to as the "Agreement") on July 1, 2013 for the District to provide treasurer services to Metro JPA until June 30, 2014; and

B. WHEREAS, Section 4 of the Agreement provides that the treasurer services may be extended by the mutual agreement of both Parties; and

C. WHEREAS, both Metro JPA and the District mutually desire to amend the Agreement to extend the time of performance for services provided by the District.

NOW THEREFORE, in consideration of the mutual obligations of the parties herein expressed, Metro JPA and the District agree as follows:

1. Section 4 of the Agreement is amended as necessary to extend the end date of Padre Dam's treasurer services until June 30, 2015.
2. All other terms and conditions of the Agreement shall remain in full force and effect.

[Signatures on following page]

IN WITNESS WHEREOF, this First Amendment to the Agreement is executed by Metro JPA and by the District on the day and year first written above.

METRO WASTEWATER JPA:

PADRE DAM MUNICIPAL WATER DISTRICT:

By: _____
Cheryl Cox
Chairperson

By: _____
Allen Carlisle
General Manager

APPROVED AS TO FORM:

Paula C. P. de Sousa
General Counsel
METRO WASTEWATER JPA

**AGREEMENT FOR TREASURER SERVICES BETWEEN
METRO WASTEWATER JOINT POWERS AUTHORITY
AND PADRE DAM MUNICIPAL WATER DISTRICT**

This Agreement ("Agreement") is made and entered into as of the 1st day of July, 2013 by and between the METRO WASTEWATER JOINT POWERS AUTHORITY ("Metro JPA"), a joint powers authority organized and operating pursuant to California Government Code section 6500 *et seq.*, and the PADRE DAM MUNICIPAL WATER DISTRICT (the "District"). Metro JPA and the District are sometimes individually referred to herein as the "Party" and collectively as the "Parties."

RECITALS

WHEREAS, certain participating agencies are members of Metro JPA ("Member Agencies");
and

WHEREAS, the activities of Metro JPA require the services of a treasurer to keep accounts, allocate costs and process accounts payable; and

WHEREAS, Metro JPA requires the services of a treasurer from one of its members; and

WHEREAS, the District has provided services as treasurer since September 1, 2002; and

WHEREAS, the Parties seek to continue the treasurer contract pursuant to the terms of, and by entering into, this Agreement.

AGREEMENT

IN CONSIDERATION of the mutual promises set forth herein, the Parties agree as follows:

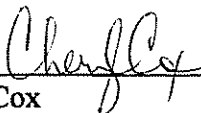
1. The District agrees to provide treasurer services to Metro JPA to include:
 - Open separate bank accounts to include savings and checking.
 - Maintain and reconcile bank accounts.
 - Prepare Member Agency annual billings.
 - Collect and deposit Member Agency billings.
 - Make authorized expenditures related to conducting Metro Commission and Metro JPA business.
 - Provide periodic unaudited financial reporting which reflects cash balances, outstanding receivables, and payables.
 - Provide periodic unaudited income statement financial reporting.
 - Financial reporting will separately track Metro Commission and Metro JPA receipts and expenditures.
 - Accrual basis of accounting will be used to reveal outstanding receivables

- and payables to the extent known as of the financial statement date.
 - Attend staff and Board meetings as desired by the Metro Commission and Metro JPA.
 - Consult and respond to questions from member agencies concerning finances and billings.
 - Other incidental services consistent with the Treasurer's position.
2. The District shall assign Karen Jassoy, Padre Dam Chief Financial Officer/Director of Finance as the treasurer to provide the above referenced services.
 3. Metro JPA agrees to reimburse the District for labor services on an hourly basis. The hourly rate for said services is \$257 per hour. It is estimated by the Parties that services will be performed for an estimated 3 to 5 hours per month with extra time spent in the beginning and end of the fiscal year for set up and year-end statements. Some of the more routine monthly tasks will be assigned to other personnel and billed at their lower rate.
 4. Said treasurer services shall continue until June 30, 2014 but may be extended by mutual agreement of both Parties. Either Party may terminate this Agreement upon ninety (90) days notice.
 5. Total charges against this Agreement shall not exceed \$19,000, unless said amount is increased by an amendment to the Agreement.
 6. Metro JPA agrees to protect and hold harmless the District, Ms. Jassoy and the District's elective, appointive Board, officers, agents and employees from any and all claims, liabilities, expenses or damages arising out of or in any way connected with the performance of this Agreement by the District or Ms. Jassoy. The only exception to Metro JPA's responsibility to protect and hold harmless is any claim, liability, expense or damage arising from or related to the gross negligence or willful misconduct of the District or Ms. Jassoy.

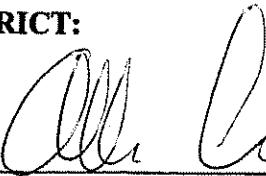
[Signatures on following page]

IN WITNESS WHEREOF, this Agreement is executed by Metro JPA and by the District on the day and year first written above.


METRO WASTEWATER JPA:

By: 
Cheryl Cox
Chairperson

PADRE DAM MUNICIPAL WATER DISTRICT:

By: 
Allen Carlisle
General Manager

APPROVED AS TO FORM:

For 
Paula C. P. de Sousa
General Counsel
METRO WASTEWATER JPA

**AGREEMENT FOR PROFESSIONAL SERVICES
BETWEEN METRO WASTEWATER JOINT POWERS AUTHORITY
AND VISION INTERNET PROVIDERS, INC.**

This agreement ("Agreement") is made and entered into as of _____, 2014, by and between the METRO WASTEWATER JOINT POWERS AUTHORITY (hereinafter referred to as the "Metro JPA"), a joint powers authority organized and operating pursuant to California Government Code section 6500 *et seq.*, and VISION INTERNET PROVIDERS, INC., a California corporation (hereinafter referred to as "Consultant"). Metro JPA and Consultant are sometimes referred to individually as "Party" and collectively as "Parties."

RECITALS

A. The Metro JPA would like to retain the services of Consultant to provide Website Hosting and as-needed maintenance, security, and technical support services as set forth in more detail herein.

B. Consultant has the necessary qualifications to provide such services.

C. The Parties desire by this Agreement to establish the terms for Metro JPA to retain Consultant to provide the services described herein.

AGREEMENT

NOW, THEREFORE, IT IS AGREED AS FOLLOWS:

1. Services.

Consultant shall provide the Metro JPA with the services described in the Scope of Services attached hereto as Exhibit "A" and incorporated herein. In the event of a conflict between any provision of the Scope of Services and any provision of this Agreement, the provision of this Agreement shall prevail.

2. Compensation.

a. Subject to paragraph 2(b) and paragraph 2(c) below, the Metro JPA shall pay for such services in accordance with Exhibit "A," attached hereto and incorporated herein by reference.

b. In no event shall the total amount paid for Website Hosting services rendered by Consultant pursuant to Exhibit "A" exceed the sum of \$2,400 for the term of this Agreement. Periodic payments shall be made within thirty (30) days of receipt of a statement for services rendered. Payments to Consultant for work performed will be made pursuant to Exhibit "A".

c. Maintenance, security, and technical support services shall be provided on an as needed basis at an hourly rate of \$110 per hour. In no event shall the total amount paid for

maintenance, security, and technical support services rendered by Consultant pursuant to Exhibit "A" exceed the sum of \$1,600 for the term of this Agreement.

3. Additional Work.

If changes in the work seem merited by Consultant or the Metro JPA, and informal consultations with the other Party indicate that a change is warranted, it shall be processed by the Metro JPA in the following manner: a letter outlining the changes shall be forwarded to the Metro JPA by Consultant with a statement of estimated changes in fee or time schedule. An amendment to this Agreement shall be prepared by the Metro JPA and executed by both Parties before performance of such services, or the Metro JPA will not be required to pay for the changes in the scope of work. Such amendment shall not render ineffective or invalidate unaffected portions of this Agreement.

4. Maintenance of Records.

Books, documents, papers, accounting records, and other evidence pertaining to costs incurred shall be maintained by Consultant and made available at all reasonable times during the Agreement period and for four (4) years from the date of final payment under the Agreement for inspection by Metro JPA. Consultant shall obtain the written consent of Metro JPA prior to destroying any such records or any work product prepared by Consultant as a result of the Services provided under this Agreement.

5. Time of Performance; Term.

Consultant shall commence and perform its services in a prompt and timely manner in accordance with Exhibit "A" and upon execution of this Agreement. The term of this Agreement is one (1) year from the date of execution of this Agreement.

6. Delays in Performance.

Neither Metro JPA nor Consultant shall be considered in default of this Agreement for delays in performance caused by circumstances beyond the reasonable control of the non-performing Party. For purposes of this Agreement, such circumstances include but are not limited to, abnormal weather conditions; floods; earthquakes; fire; epidemics; war; riots and other civil disturbances; strikes, lockouts, work slowdowns, and other labor disturbances; any computer virus, worm, denial of service attack; and sabotage or judicial restraint.

Should such circumstances occur, the non-performing Party shall, within a reasonable time of being prevented from performing not to exceed ten (10) days, give written notice to the other party describing the circumstances preventing continued performance and the efforts being made to resume performance of this Agreement.

7. Compliance with Law.

Consultant shall comply with all applicable laws, ordinances, codes and regulations of the federal, state and local government.

8. Assignment and Subconsultant.

Consultant shall not assign, sublet, or transfer this Agreement or any rights under or interest in this Agreement without the written consent of the Metro JPA, which may be withheld for any reason. Nothing contained herein shall prevent Consultant from employing independent associates, and subconsultants as Consultant may deem appropriate to assist in the performance of services hereunder.

9. Independent Contractor.

Consultant is retained as an independent contractor and is not an employee of Metro JPA. No employee or agent of Consultant shall become an employee of Metro JPA. The work to be performed shall be in accordance with the work described in Exhibit "A," subject to such directions and amendments from Metro JPA as herein provided.

10. Integration.

This Agreement represents the entire understanding of Metro JPA and Consultant as to those matters contained herein, and supersedes and cancels any prior oral or written understanding, promises or representations with respect to those matters covered hereunder. This Agreement may not be modified or altered except in writing signed by both Parties hereto. This is an integrated Agreement.

11. Insurance.

a. Commercial General Liability.

(i) The Consultant shall take out and maintain, during the performance of all work under this Agreement, Commercial General Liability Insurance, in a form and with insurance companies acceptable to the Metro JPA.

(ii) Coverage for Commercial General Liability insurance shall be at least as broad as the following:

(1) Insurance Services Office Commercial General Liability coverage (Occurrence Form CG 0001), or a policy providing the exact same coverage.

(2) The policy shall contain no endorsements or provisions (A) limiting coverage for contractual liability; (B) excluding cross liability for claims or suits by one insured against another; or (C) containing any other exclusion(s) contrary to the terms or purposes of this Agreement.

(iii) Commercial General Liability Insurance must include coverage for the following:

- (1) Bodily Injury and Property Damage
- (2) Personal Injury/Advertising Injury
- (3) Premises/Operations Liability

- (4) Products/Completed Operations Liability
- (5) Aggregate Limits that Apply
- (6) Contractual Liability with respect to this Agreement
- (7) Broad Form Property Damage
- (8) Independent Consultants Coverage

(iv) The policy shall not contain any exclusion contrary to the Agreement, including but not limited to endorsements or provisions limiting coverage for (1) contractual liability (including but not limited to ISO CG 24 26 or 21 29); or (2) cross liability for claims or suits by one insured against another.

(v) The policy shall be endorsed to name the Metro JPA, the Board and each member of the Board, its officers, employees, agents and Metro JPA designated volunteers as Additional Insureds under the policy using ISO endorsement forms CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage.

(vi) The general liability program may utilize either deductibles or provide coverage excess of a self-insured retention, subject to written approval by the Metro JPA. Consultant shall guarantee that the insurer shall eliminate such deductibles or self-insured retentions as respects Metro JPA, its members, directors, officials, officers, employees, agents, and volunteers.

b. Automobile Liability.

(i) At all times during the performance of the work under this Agreement, the Consultant shall maintain Automobile Liability Insurance for bodily injury and property damage including coverage for non-owned and hired vehicles, in a form and with insurance companies acceptable to the Metro JPA. Consultant warrants that as of the date of execution of this Agreement, it has no owned vehicles; in the event Consultant obtains owned vehicles during the term of this Agreement, it agrees to provide proof of coverage for owned vehicles within ten (10) days thereof.

(ii) Coverage for automobile liability insurance shall be at least as broad as Insurance Services Office Form Number CA 0001 (ed. 12/93) covering automobile liability, Code 1 (any auto).

(iii) The automobile liability program may utilize deductibles, but not a self-insured retention, subject to written approval by the Metro JPA, and provided that deductibles shall not apply to Metro JPA as an additional insured.

(iv) All such policies shall name the Metro JPA, the Board and each member of the Board, its officers, employees, agents and Metro JPA designated volunteers as Additional Insureds under the policies.

c. Workers' Compensation/Employer's Liability.

(i) At all times during the performance of Services under this Agreement, the Consultant shall maintain workers' compensation in compliance with applicable statutory requirements and Employer's Liability Coverage in amounts indicated herein.

(ii) Such insurance shall include an insurer's Waiver of Subrogation in favor of the Metro JPA and will be in a form and with insurance companies acceptable to the Metro JPA.

(iii) If insurance is maintained, the workers' compensation and employer's liability program may utilize either deductibles or provide coverage excess of a self-insured retention, subject to written approval by the Metro JPA.

(iv) Before beginning work, the Consultant shall furnish to the Metro JPA satisfactory proof that he/she has taken out for the period covered by the work under this Agreement, full compensation insurance for all persons employed directly by him/her or through subconsultants in carrying out the work contemplated under this Agreement, all in accordance with the "Workers' Compensation and Insurance Act," Division IV or the Labor Code of the State of California and any acts amendatory thereof. Consultant shall require all subconsultants to obtain and maintain workers' compensation coverage of the same type and limits as specified in this section.

d. Professional Liability (Errors and Omissions).

At all times during the performance of the work under this Agreement the Consultant shall maintain professional liability insurance, in a form and with insurance companies acceptable to Metro JPA and in an amount indicated herein.

e. Public Liability, Property Damage, Automobile Liability, Employer's Liability, and Professional Liability (Errors and Omissions).

(i) The following insurance limits are required for the Agreement:

	<u>Combined Single Limit</u>
Commercial General Liability	\$1,000,000 per occurrence/ \$2,000,000 aggregate for bodily injury, personal injury, and property damage
Automobile Liability	\$1,000,000 per occurrence for bodily injury and property damage
Employer's Liability	\$1,000,000 per occurrence
Professional Liability	\$1,000,000 per claim and aggregate (errors and omissions)

(ii) Defense costs shall be payable in addition to the limits.

(iii) Requirement of specific coverage or minimum limits contained in this Agreement are not intended as a limitation on coverage, limits or any other requirement, or a waiver of any coverage normally provided by any insurance.

Notwithstanding the minimum limits set forth in this Section 11(e), any available insurance proceeds in excess of the specified minimum limits of coverage shall be available to the parties required to be named as additional insureds pursuant to this Agreement.

f. Evidence Required.

Prior to execution of the Agreement, the Consultant shall file with the Metro JPA evidence of insurance from an insurer or insurers certifying to the coverage of all insurance required herein. Such evidence shall include original copies of the ISO CG 2010 (or insurer's equivalent) signed by the insurer's representative and Certificate of Insurance (Acord Form 25-S or equivalent), together with all endorsements to the policies described therein. All evidence of insurance shall be certified by a properly authorized officer, agent, or qualified representative of the insurer and shall certify the names of the insured, any additional primary insureds, where appropriate, the type and amount of the insurance, the location and operations to which the insurance applies, and the expiration date of such insurance.

g. Policy Provisions Required.

(i) All policies shall contain a provision for 30 days advance written notice by the insurer(s) to the Metro JPA of any cancellation. Statements that the carrier "will endeavor" and "that failure to mail such notice shall impose no obligation and liability upon the company, its agents or representatives," will not be acceptable on certificates. In the event any insurer providing coverage required under this Agreement shall fail to provide the notice required in this section, Consultant shall be responsible to provide such notice to the Metro JPA. Consultant is responsible to replace any and all policies required under this Agreement which are cancelled during the term of this Agreement no later than the effective date of cancellation.

(ii) All policies shall contain a provision stating that the Consultant's policies are primary insurance and the insurance of the Metro JPA, its members or any additional insureds shall not be called upon to contribute to any loss. Any failure to comply with reporting or other provisions of the policies including breaches of warranties shall not affect coverage provided to Metro JPA, its members, officials, officers, employees, agents and volunteers, or any other additional insureds.

(iii) All policies shall waive any right of subrogation of the insurer against Metro JPA, its members, officials, officers, employees, agents, and volunteers, or any other additional insureds, or shall specifically allow Consultant or others providing insurance evidence in compliance with these specifications to waive their right of recovery prior to a loss. Consultant hereby waives its own right of recovery against Metro JPA, its members, officials, officers, employees, agents, and volunteers, or any other additional insureds, and shall require similar written express waivers and insurance clauses from each of its subconsultants.

h. Qualifying Insurers.

(i) All policies required shall be issued by acceptable insurance companies, as determined by the Metro JPA, which satisfy the following minimum requirements:

(ii) Insurance carriers shall be admitted to do business in California and maintain an agent for process within the state or otherwise allowed to place insurance through surplus line brokers under applicable provisions of the California Insurance Code or any federal law. Such insurance carrier shall have not less than an "A-" policyholder's rating and a financial rating of not less than "Class VII" according to the latest Best Key Rating Guide.

i. Additional Insurance Provisions.

(i) The foregoing requirements as to the types and limits of insurance coverage to be maintained by Consultant, and any approval of said insurance by the Metro JPA, is not intended to and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by the Consultant pursuant to this Agreement, including but not limited to, the provisions concerning indemnification. Neither the Metro JPA nor the Board, nor any member of the Board, nor any of the directors, officers, employees, agents or volunteers shall be personally responsible for any liability arising under or by virtue of the Agreement.

(ii) If at any time during the life of the Agreement, the Consultant fails to maintain in full force any insurance required by the Agreement documents, the Metro JPA has the right but not the duty to acquire the necessary insurance for the Consultant and deduct the cost thereof from the appropriate progress payments due the Consultant, or backcharge the Consultant for such costs in the event they exceed the amount of unpaid progress payments due the Consultant. In the alternative, Metro JPA may cancel this Agreement.

(iii) Consultant shall not allow any subconsultants to commence work on any subcontract relating to the work under the Agreement until they have provided evidence satisfactory to the Metro JPA that they have secured all insurance required under this Section. If requested by Consultant, Metro JPA may approve different scopes or minimum limits of insurance for particular subconsultants. The Consultant and Metro JPA shall be named as additional insureds on all subconsultants' policies of Commercial General Liability using endorsement form ISO CG 20 38 04 13 or an endorsement providing equivalent coverage.

(iv) The Metro JPA may require the Consultant to provide complete copies of all insurance policies in effect for the duration of the Agreement.

12. Indemnification.

To the fullest extent permitted by law, Consultant agrees to protect, save, defend and hold harmless Metro JPA and its Board and each member of the Board, officers, agents and employees from any and all claims, liabilities, expenses or damages of any nature, including attorneys' fees, for injury or death of any person, or damage to property, or interference with use of property, including loss of use, arising out of or in any way connected with the negligent performance or willful misconduct under this Agreement by Consultant, Consultant's agents, officers, employees, subconsultants, or independent consultants hired by Consultant. The only exception to Consultant's responsibility to protect, save, defend and hold harmless Metro JPA, is due to the sole negligence, willful misconduct or active negligence of Metro JPA. This hold harmless provision shall apply to all liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by Consultant.

13. Laws, Venue, and Attorneys' Fees.

This Agreement shall be interpreted in accordance with the laws of the State of California. If any action is brought to interpret or enforce any term of this agreement, the action shall be brought in a state or federal court situated in the County of San Diego, State of California. In the event of any such litigation between the Parties, the prevailing party shall be entitled to recover all reasonable costs incurred, including reasonable attorney's fees, as determined by the court.

14. Termination or Abandonment.

a. Metro JPA has the right to terminate or abandon any portion or all of the work under this Agreement by giving ten (30) calendar days written notice ("Notice of Termination") to Consultant. In such event and subject to Exhibit "A", Metro JPA shall be immediately given title and possession to all original field notes, drawings and specifications, written reports and other documents produced or developed for that portion of the work completed and/or being abandoned. Metro JPA shall pay Consultant the reasonable value of services rendered for any portion of the work completed prior to termination. Consultant shall not be entitled to damages for termination of work.

b. In the event this Agreement is terminated without cause, the Consultant shall perform the services required by this Agreement up to and including the effective date set out in the Notice of Termination. The Consultant shall not perform any further services subsequent to the effective date set out in the Notice of Termination. In the event this Agreement is terminated without cause, Metro JPA shall pay to the Consultant for all services performed up to the date of termination. Upon termination of the Agreement pursuant to this Section, the Consultant will submit an invoice to Metro JPA pursuant to Section 2.

c. Consultant may terminate its obligation to provide further services under this Agreement upon thirty (30) calendar days' written notice to Metro JPA only in the event of substantial failure by Metro JPA to perform in accordance with the terms of this Agreement through no fault of Consultant.

15. Notice.

Any notice or instrument required to be given or delivered by this Agreement may be given or delivered by depositing the same in any United States Post Office, certified mail, return receipt requested, postage prepaid, addressed to:

METRO JPA:	CONSULTANT:
Metro Wastewater JPA c/o La Mesa City Hall 8130 Allison Ave., La Mesa, CA 91942 Attn: c/o Greg Humora, City of La Mesa	VISION INTERNET PROVIDERS, INC. 2530 Wilshire Boulevard, 2nd Floor Santa Monica, California 90403 Attn: Steven Chapin Cc: Rose De Vries Fax: (310) 656-3103

and shall be effective upon receipt thereof.

16. Data.

Consultant shall be entitled to rely upon the accuracy of data and information provided by the Metro JPA without independent review or evaluation unless such review or evaluation is specified in the Scope of Services.

17. Third Party Rights.

Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than the Metro JPA and the Consultant.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the date first written above.

METRO WASTEWATER JPA:

By: _____
Cheryl Cox
Chairperson

VISION INTERNET PROVIDERS, INC.

By: _____
Steven Chapin
President

APPROVED AS TO FORM:

Paula C. P. de Sousa
General Counsel
METRO WASTEWATER JPA

EXHIBIT “A”

A Proposal for
San Diego Metro Wastewater JPA

Launching an Exceptional Website with Vision

Susan Nguyen
Regional Sales Manager
360.635.4338 / 310.656.3103 fax
susan@visioninternet.com



Vision Internet
2530 Wilshire Blvd. 2nd fl
Santa Monica, CA 90403
888.263.8847
www.visioninternet.com
Date: March 19th, 2014

COVER LETTER

Dear Mr. Humora,

Thank you for the opportunity to submit a hosting and maintenance services proposal to the San Diego Metro Wastewater JPA. Our team has enjoyed working on your project and we are excited about getting the site ready to launch. As you have experienced firsthand, having a **secure and reliable host for your agency's website is critical to enable the JPA to continue to operate and successfully serve your members.**

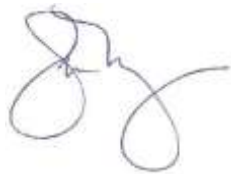
Vision Internet is unique in the level of choice we provide to our clients. We can provide hosting, the JPA can host, or even a third party may host the site. In addition, we offer a variety of maintenance and service options ranging from no maintenance all the way to our most commonly selected visionLive™ subscription maintenance that provides all-inclusive hosting, support and maintenance for a low annual rate.

Because we offer maximum flexibility to our clients, the SD Metro JPA is welcome to host the new site on your own servers (or with a third-party). However, there are minimum hardware and software requirements necessary for this option so please contact me if you would like these specifications.

Please feel free to call me when you have had an opportunity to review the details. I am happy to answer questions or clarify any of the proposed options.

I look forward to speaking with you again soon.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Susan Nguyen', with a stylized, looping design.

Susan Nguyen
Regional Sales Manager
Vision Internet Providers, Inc.

MAINTENANCE AND HOSTING SERVICES

Vision Internet is a full service firm providing all the services necessary to build and maintain your website. This includes website maintenance, support, upgrades, and hosting. While other firms limit your hosting options and lock you into "one size fits all" support plans, Vision Internet takes a different approach.

Below is a description of our available post-launch services and the optional maintenance packages.

Hosting with visionLive™

As an option to paying monthly fees for hosting and maintenance services, Vision Internet is offering SD Metro JPA our subscription version of the Vision Content Management System™. This new offering allows us to provide maintenance services and hosting for a flat annual fee. Additionally, we will also provide CMS upgrades at no extra cost. This allows you to affordably keep current with new technology, enhancements, and improvements.



visionLive™ takes the guess-work out of future budgeting by including all essential post-launch services into a flat annual subscription. The service includes:

- Hosting
- Unlimited technical support¹
- CMS system upgrades
- Newly developed CMS components²
- Free redesign after 4 years of visionLive™ service

Website Hosting

For over eighteen years, website hosting has been an integral part of our operations. We started our business as an Internet Service Provider (ISP) offering full service connectivity, design, and hosting. As the business evolved, we developed our relationship with CoreSite and Cogent, a global network provider, which enables us to provide comprehensive hosting solutions for our clients. We have our own co-location suite within a secure, state-of-the-art facility.

Our hosting services include:

- Necessary bandwidth for website (over a 100 Mbps digital line)
- Power failure equipment including battery backup
- Redundant generator backup
- VMware Virtualization server with high available setting
- Operating system health monitoring and automatic hardware failover capability

¹ Does not include updates to configuration, content, or formatting among other restrictions.

² Does not include new features that require design customization to implement.

- Centralized storage area network
- Full climate control
- Firewall protection
- 24 hour monitoring
- Security access via ID, biometrics, CCTV and key card
- Microsoft Windows Server 2008R2 or 2012 (based on the CMS version)
- Microsoft SQL Server 2005 standard, 2008R2 Standard or 2012 Standard (based on the CMS version)
- Monthly web usage statistics reports
- Fixed IP address for the website
- Daily onsite backups
- Guaranteed 99.9% uptime

VISIONCMS™ HARDWARE AND SOFTWARE

Below are details on the hosting environment we are offering the SD Metro JPA:

Shared Server

- Quad-core or Hex-core processors
- 10 GB~16 GB memory per hosting virtual server
- RAID 50 Configuration
- Windows Server 2012/Microsoft SQL Server 2012

WEB ANALYTICS

To realize the full potential of your website, you must measure its progress. The easiest way to accomplish this is to actively monitor website traffic and the content most utilized by visitors.

Included with our hosting services, we offer web analytics to analyze website traffic. It presents site traffic reports in an organized and concise format, all with full-color graphics. By utilizing this, we are able to offer complete reports on website visitor patterns, referring



Figure 1: Web analytics provide advanced, interactive reporting.

sites, visitor paths, and demographics. The reports enable you to understand the website end-users, what search engines and keywords they use to find your website, the pages they access, documents they download most often, and much more.

The reports also provide activity and technical statistics that contain information about the average number of visits, the least and most active days, the length of visits, the total hits, the errors found on the pages, etc. These numbers are especially helpful when trying to determine the impact various site publications or changes have had.

The reports are made available to you over the web, and data is easily exportable to CSV, Excel and PDF.

Unlimited Technical Support

At Vision Internet we stand behind our clients and can provide you with the support you need. With the visionLive™ plan, you will enjoy unlimited technical support for your website. Typical support questions include how to perform advanced tasks, configure the system, or accomplish some organizational need in the best way possible.

In all cases, Vision Internet is able to address your technical and/or operational needs. You will be assigned a service support person who will serve as your first level of support and manage any needs you may have. Continual monitoring of your site is provided to assist your staff in finding solutions to any unexpected problems. For issues that occur after business hours, emergency staff support is provided 24 hours a day, 7 days a week.

Vision SPARK Customer Resource Center

At Vision Internet, we are committed to delivering excellent customer service and recognize that providing support means more than just building a functional website. This is why, in addition to our dedicated support team, our clients have access to Vision SPARK, an online customer resource center.

With exclusive access to SPARK, you will be able to:

- Access our collection of CMS tips, tricks, and tutorials
- Submit and track your support requests with a quick click-of-a-mouse
- See what other Vision Internet clients are doing with their websites
- Learn about new features and components
- Customize your SPARK experience

You will also hear about exciting ways to upgrade your site when new features are introduced!

Upgrades

Technology is continually evolving. visionLive™ ensures your website will keep pace. If upgrades to the visionCMS™ are released, they will automatically be added to all visionLive™ client websites at no additional charge. Has a new browser been released? Has a new mobile device become popular? No worries! We have you covered.

Newly Developed CMS Components

Vision Internet's product development team is continually rolling out new functionality, through ideas generated by collaborating with our clients, trends in the industry, or new innovations developed internally. We want to make sure our clients can immediately utilize these tools as

they are launched, without having to wait for a budget request. **That's why with a visionLive™ maintenance plan**, in addition to upgrades, you will also automatically receive new components as they are launched.³

Free Graphic Redesign

The upgrades and addition of new site features will help keep your website up to date *technically*, but what about graphically? It is generally recommended that websites be redesigned every three to five years, which is why we include a free redesign to all clients who maintain a visionLive™ maintenance plan for four consecutive years. As part of the process, enjoy a refreshed layout, navigation, and custom graphic design – at NO additional cost!

Hosting Alternatives

As an alternative to our subscription plan, the San Diego Metro Wastewater JPA can also choose just to host with Vision Internet without purchasing any additional ongoing visionLive™ services. If the JPA selects this option, it can also choose either to purchase an Hourly Maintenance Plan or to not purchase any Maintenance Plan at all.

Should the JPA decide to purchase an Hourly Maintenance Plan, you would purchase a defined number of support hours per month. Unused hours will automatically roll-over from month-to-month, accumulating over time. These unused hours can be applied to purchase any service offered by Vision Internet, including refresher training, upgrades, new features, or system enhancements, thus ensuring your website remains current and fresh.

If the SD Metro JPA opts to have no on-going contract, it can simply pay for support and maintenance services as needed. This option can be utilized by clients who host with Vision Internet or host in-house.

Don't see an option that will work for you? We can discuss additional options, such as visionLive™ services without hosting, and create a plan that will suit your needs!

³ Does not include new features that require design customization to implement.

PRICING PROPOSAL

Hosting and Maintenance Options

Hosting with visionLive™

We are offering the San Diego Metro JPA our visionLive™ subscription service, allowing us to significantly improve the value of our post-launch services. For a low annual subscription rate, we are able to provide maintenance, hosting services, upgrades for the visionCMS™, newly developed CMS components and a **free redesign after four years of visionLive™ service**⁴.

Plan	Budget
Hosting with visionLive™	\$6,600/year ⁵

Hosting Only

Please note that we can also provide hosting without additional support services for a low annual rate.

Plan	Budget
Hosting Only (with no maintenance plan)	\$2,400/year ⁶
Hourly Maintenance Plan	\$110/hour ⁷

Terms and Conditions

Vision Internet agrees to perform the services at the prices quoted in this proposal. This quote is valid for 90 days.

⁴ Does not include updates to configuration, content, or formatting among other restrictions; does not include new features that require design customization to implement.

⁵ visionLive™ subscription rates listed are based on the cost of your project as proposed. Please note this cost may vary should the scope of your project change. Subject to a 5% annual increase.

⁶ Subject to a 5% annual increase.

⁷ Discounts available for plans greater than seven hours per month.



**PROPOSED BUDGET
FISCAL YEAR '15**

Metro Wastewater JPA
Proposed Budget FY '15

	FY '14		FY '15			
	Budget (Approved)	Projected Actual (at 3/31/14)	Budget (Proposed)	Diff from FY '14 Budget	Diff from FY '14 Projected	Notes on FY '15 Budget Preparation
Income						
Membership Dues	\$ 228,515	\$ 228,515	\$ 246,710	\$ 18,195	\$ 18,195	Revenue spread over 12 months. Total is budgeted to break even.
Interest Income	100	73	100	-	27	Estimated small interest amount
Total Income	228,615	228,588	246,810	18,195	18,222	
Expense						
Consultant - Atkins	129,195	129,195	161,490	32,295	32,295	Services through 2/2/14. Anticipate spending FY '14 budget. Proposed FY '15 includes a 25% increase.
Legal - BB&K	35,000	35,000	35,000	-	-	Services through 2/28/14; Anticipate spending FY '14 budget. Keep budget same for FY '15
Per Diems - Board	20,000	15,500	19,000	(1,000)	3,500	Per diem bills received through 3/6/14. Budget slightly lower for FY '15 due to history.
Treasury Support - Padre Dam	19,000	19,000	16,000	(3,000)	(3,000)	Treasurer services billed through 12/31; contract will be spent by year end. No audit FY '15
Metro/JPA/TAC meetings	5,000	3,579	4,500	(500)	921	FY '15 budget slightly lower for FY '15 due to history.
Audit	12,000	12,000	-	(12,000)	(12,000)	Draft completed; anticipate final bills will be within budget. No FY '15 audit (bi-annual audit).
Administrative Support-LP	3,600	2,500	3,600	-	1,100	Have not yet been billed for FY '14; keep budget same for FY '15.
Mileage Reimbursement	2,000	-	500	(1,500)	500	Small amount budgeted in FY '15
Web Site	820	24,989	4,820	4,000	(20,169)	Paid 60% of website redesign contravt. FY '15 budget includes new hosting and maintenance services.
Supplies, Printing, Postage	500	248	400	(100)	152	Budget based on historical
Telephone	450	450	450	-	-	No invoices received for FY '14; contract for \$90/quarter.
Bank Charges	200	-	200	-	200	Temporary waiver granted from bank.
Dues and Subscriptions	600	600	600	-	-	FY '15 based on historical expenses - S.C. Alliance of Public Treatment Works
Miscellaneous	250	250	250	-	-	Placeholder for unexpected small charges
Contingencies	-	-	-	-	-	Reserves high enough - no need for additional contingency
Total Expense	228,615	243,311	246,810	18,195	3,499	
Net Income (Loss)	\$ -	\$ (14,722)	\$ -	\$ -	\$ 14,722	

Fund Balance at 6/30/13	\$ 146,505
Projected Net Loss for FY '14	(14,722)
Projected Fund Balance @ 6/30/14	131,783
FY '15 JPA Required Operating Reserve (4 Months Operating Expenses)	82,270
Projected Fund Balance @ 6/30/14 Over/(Under) Required Reserves	\$ 49,513

**Metro Wastewater JPA
Agency Cost Allocations FY '15**

	Prior Year (FY '14)	
	Commission Flow Distribution %	Total Agency Billings
Chula Vista	28.34%	\$ 64,761
Coronado	3.62%	\$ 8,268
County of SD *	19.27%	\$ 44,037
Del Mar	0.95%	\$ 2,169
El Cajon	13.49%	\$ 30,818
Imperial Beach	3.70%	\$ 8,456
La Mesa	7.96%	\$ 18,179
Lemon Grove	3.71%	\$ 8,471
National City	7.52%	\$ 17,179
Otay Water District	0.65%	\$ 1,485
Padre Dam MWD	4.93%	\$ 11,275
Poway	5.87%	\$ 13,417
Total Flow	100.00%	\$ 228,515

Total Required Agency Billings from P&L

Proposed FY '15	
Commission Flow Distribution %	Total Agency Billings
28.31%	\$ 69,843
4.22%	\$ 10,411
18.95%	\$ 46,752
0.42%	\$ 1,036
13.68%	\$ 33,750
3.84%	\$ 9,474
7.63%	\$ 18,824
3.77%	\$ 9,301
7.78%	\$ 19,194
0.67%	\$ 1,653
4.67%	\$ 11,521
6.06%	\$ 14,951
100.00%	\$ 246,710
	\$ 246,710

* County of SD includes East Otay Mesa, Lakeside/Alpine, Spring Valley and Wintergardens

	FY 2015			
	expressed in percents:			
	FLOW	SUSPENDED SOLIDS	OXYGEN DEMAND	BLENDED %
CHULA VISTA	28.31%	31.02%	32.79%	30.71%
CORONADO	4.22%	2.91%	3.65%	3.59%
DEL MAR	0.42%	0.51%	0.44%	0.45%
EAST OTAY MESA	0.04%	0.03%	0.03%	0.04%
EL CAJON	13.68%	11.16%	12.38%	12.41%
IMPERIAL BEACH	3.84%	3.84%	3.55%	3.74%
LA MESA	7.63%	6.58%	6.48%	6.90%
LAKESIDE/ALPINE	5.52%	4.74%	4.65%	4.97%
LEMON GROVE	3.77%	3.05%	3.58%	3.47%
NATIONAL CITY	7.78%	7.64%	8.55%	7.99%
OTAY	0.67%	3.60%	1.29%	1.85%
PADRE DAM	4.67%	6.13%	5.35%	5.38%
POWAY	6.06%	6.00%	5.28%	5.78%
SPRING VALLEY	11.79%	11.58%	10.81%	11.40%
WINTERGARDENS	1.60%	1.22%	1.17%	1.33%
	100.00%	100.00%	100.00%	100.00%

MetroTAC
2013/14 Work Plan
February 2014 (Revised Per Metro TAC)

MetroTAC Items	Description	Subcommittee Member(s)
JPA Website Update	5/13: The Metro TAC would like to update the current website as it is outdated. A review of the current website and its limitations will be on the Metro TAC agenda in the next couple months. 9/13: Greg & Karyn have been working with Vision Internet to finalize a scope of work and contract. These will go to the JPA for approval at their October meeting. 1/14: The contract has been negotiated and approved and Vision has started on the framework for the website.	Greg Humora Karyn Keese
PUD Industrial Waste Program Update	9/13: A performance audit was performed on the PUD's IWCP. The audit produced two findings and made 8 recommendations. PUD has hired Brown & Caldwell to perform a fee study and assist implementation of an updated program. A subcommittee of the Metro TAC was formed to work with PUD staff and the consultant.	Roberto Yano Ed Walton
Management of Non-Dispersibles in Wastewater	9/13: Eric Minicilli handed out a position paper prepared by the NEWEA. A copy is attached to this work plan.	Eric Minicilli
2013 Transportation Rate Update	5/13: PUD staff is proposing slightly revising the methodology and increasing the transportation rate. Subcommittee met with PUD staff on 6/12/13 to review calculations. 9/13: PUD staff is having the rate methodology reviewed by engineering staff. They should be meeting with Metro TAC subcommittee within the next month.	Al Lau Dan Brogadir Karyn Keese
PLWTP Permit Ad Hoc TAC	6/13: Ad Hoc created by JPA at their special June workshop. Goal: Create regional water reuse plan so that both a new, local, diversified water supply is created and maximum offload at Point Loma is achieved to support federal legislation for permanent acceptance of Point Loma as a smaller advanced primary plant. Minimize ultimate Point Loma treatment costs and most effectively spend ratepayer dollars due to successful coordination between water and wastewater agencies. Ad Hoc has been meeting all month and has developed a Concept Paper. Ad Hoc will be giving presentations to PAs City Councils/Board of Directors during July 2013. 9/13: Greg Humora, Leah Browder, and Scott Tulloch have given presentations to most of the governing bodies of the PAs in addition to meeting with environmental groups, San Diego staff and City Council members. A position paper, as well as a presentation, has been prepared. A resolution of support has been adopted by the governing bodies of the PAs. 1/14: The AdHoc outreach group continues to meet with stakeholders and City staff in development of the Program. <i>2/14: See Milestones attached to this work plan.</i>	Greg Humora Leah Browder Mark Watton Scott Tulloch Rick Hopkins Jim Smyth Karyn Keese
IRWMP	Bob Kennedy attended the Regional Advisory Committee (RAC) meeting of April 3, 2013. Minutes from this meeting are attached. 6/5/13: Bob Kennedy attended Meeting #43. Minutes are attached to this work plan. The Final 2013 San Diego IRWM Plan has been completed and is available to download at http://sdirwmp.org/2013-irwm-plan-update . 1/14: Bob Kennedy continues to attend RAC meetings and reports back to Metro TAC.	Bob Kennedy Greg Humora
Fiscal Items	The Finance committee will continue to monitor and report on the financial issues affecting the Metro System and the charges to the PAs. The debt finance and reserve coverage issues have been resolved. Refunds totaling \$12.3 million were sent to most of the PA's. 10/26/11: 2010 will be the first year where the PAs will be credited with interest on the debt service reserve and operational fund balances. Interest will be applied as an income credit to Exhibit E when that audit is complete.	Greg Humora Karen Jassoy Karyn Keese

MetroTAC Items	Description	Subcommittee Member(s)
Recycled Water Revenue Issue	Per our Regional wastewater Agreement revenues from SBWTP are to be shared with PA's. 4/11: City has agreed to pay out revenue to Wastewater Section and PA's credit will be on the Exhibit E adjustments at year end Open issues: Capacity reservation lease payments and North City Optimized System Debt service status. 12/11: Letter sent to San Diego regarding outstanding recycled water revenue issues. 1/14: Karyn Keese continues to meet with City staff to determine the basis of the water department's administrative charges.4/13: Need Metro TAC member for subcommittee	Karyn Keese
Water Reduction - Impacts on Sewer Rates	The MetroTAC wants to evaluate the possible impact to sewer rates and options as water use goes down and consequently the sewer flows go down, reducing sewer revenues. Sewer strengths are also increasing because of less water to dilute the waste. We are currently monitoring the effects of this. 2/2011:wastewater revenues are declining due to conservation and flow reductions and agencies are re-prioritizing projects to be able to cover annual operations costs	Eric Minicilli Bob Kennedy Karyn Keese
"No Drugs Down the Drain"	The state has initiated a program to reduce pharmaceuticals entering the wastewater flows. There have been a number of collection events within the region. The MetroTAC, working in association with the Southern California Alliance of Publicly-owned Treatment Works (SCAP), will continue to monitor proposed legislation and develop educational tools to be used to further reduce the amount of drugs disposed of into the sanitary sewer system. 8/2010: County Sheriff and Chula Vista have set up locations for people to drop off unwanted medications and drugs.4/11: Local law enforcement has taken a proactive role and is sponsoring drug take back events. 3/11: TAC to prepare a position for the board to adopt; look for a regional solution; watch requirements to test/control drugs in wastewater. 10/26/11: A prescription drug take back day is scheduled for 10/29/11. Go to www.dea.gov to find your nearest location.4/12: East County to host a prescription drug take back 4/28/12. 4/27/13 is scheduled to be a county wide take back day. Locations can be found on the DEA website.	Greg Humora
Strength Based Billing Evaluation	3/20/13: Brown and Caldwell presented their draft results to Metro TAC. This has been added as a standing item to the Metro TAC agenda for discussions on the recommendations. 9/13: This item is complete. 1/14: City staff provided Metro TAC with draft adjustments back to 2004 based on B&C's review of the North City Plants flows. <i>2/14: The City provided the Finance Committee with draft adjustments back to 1998.</i>	Karyn Keese
Grease Recycling	To reduce fats, oils, and grease (FOG) in the sewer systems, more and more restaurants are being required to collect and dispose of cooking grease. Companies exist that will collect the grease and turn it into energy. MetroTAC is exploring if a regional facility offers cost savings for the PAs. The PAs are also sharing information amongst each other for use in our individual programs. 3/11: get update on local progress and status of grease rendering plant near Coronado bridge	Eric Minicilli

MetroTAC Items	Description	Subcommittee Member(s)
Padre Dam Mass Balance Correction	<p>11/11: Padre Dam has been overcharged for their sewage strengths since 1998. Staff from City of San Diego presented a draft spreadsheet entitled Master Summary Reconciliations Padre Dam Mass Balance Corrections Calculation. Rita Bell and Karyn Keese were elected to review the documentation and report back to Metro TAC. 2/12: Audit complete. Item added as Standing to Metro TAC agenda. 4/12: This issue is scheduled as a standing item and discussed at each Metro TAC meeting until it is resolved. Currently Metro TAC is focusing on the statute of limitations. 2/13: The PAs have received a joint letter from Padre Dam/City of San Diego. The PA's attorneys group continues to meet on this issue. 3/13: The attorney's group has requested an extension to 4/23/13 to respond to San Diego's letter. 5/13: The attorney's group has submitted a letter to Padre Dam and San Diego. 1/14: City of San Diego has submitted an offer to the attorney's group. The attorney's group met in January to discuss. <i>2/14: Edgar Patino has prepared a spreadsheet of all open financial issues. Karyn Keese is currently reviewing it. The spreadsheet has been given to the attorney's group.</i></p>	Rita Bell Karyn Keese
Waiver and Recycled Water Study Implementation	<p>11/12: Metro TAC requested a timeline from City staff including milestones for the waiver process. The waiver is due no later than 7/30/15. However, the application needs to be submitted six months prior to the July date (2/1/15). Preparation of the waiver will begin in the early part of FYE 2014. 2/13: City staff has met to start coordination of the waiver process. Staff in attendance included Roger Bailey, Marsi Steirer, Guann Hwang, Steve Meyers, and Allan Langworthy. 5/13: Scott Tulloch has briefed Metro TAC and the Metro Commission/JPA on the waiver's history and secondary equivalency. A JPA workshop to be held in June to further discuss. Scott Tulloch is preparing a briefing paper for the Commission's use. 6/13: JPA workshop held and PLWTP Steering Committee and Ad Hoc TAC were appointed.</p>	Greg Humora Leah Browder Scott Tulloch Karyn Keese
City of San Diego Recycled Water Pricing Study	<p>San Diego is working on a rate study for pricing recycled water from the South Bay plant and the North City plant. Metro TAC, in addition to individual PAs, has been engaged in this process and has provided comments on drafts San Diego has produced. We are currently waiting for San Diego to promulgate a new draft which addresses the changes we have requested. 10/26/11: draft study still not issued. 5/13: Recycled Water Study to be on July 2013 Metro TAC agenda per PUD staff. 6/24/13: Recycled Water Pricing Study goes to IROC. 7/10/13: Recycled Water Study goes to NR&C 9/13: PUD has hired Black & Veatch to review the study</p>	Karyn Keese Rita Bell
City of San Diego Revised Procurement Process	<p>8/12: San Diego City Engineer James Nagelvoort reported on recent changes to San Diego's procurement process to move projects through more quickly. Technically any CIP projects under \$30 million may no longer need to be reviewed by the Metro TAC or JPA prior to City Council approval. Chairman Humora requested San Diego prepare a summary of the recent changes and the decision points for consideration of the TAC at the September meeting. 10/4: Metro Commission requests further review by TAC to recommend an appropriate level for CIP's to be brought forth to the Commission. 11/12: MetroTAC recommended leaving the thresholds as they are today and therefore everything will go through TAC and then to the JPA for formal action. The policy will be placed on the JPA website. The Metro Commission approved the policy at their November 2012 meeting. San Diego's CIP will become a standing item on the Metro TAC agenda.</p>	Metro TAC

MetroTAC Items	Description	Subcommittee Member(s)
Salt Creek Diversion	9/2010: OWD, Chula Vista and San Diego met to discuss options and who will pay for project; Chula Vista and OWD are reviewing options. 2/2011: OWD and PBS&J reviewed calculations with PUD staff; San Diego to provide backup data for TAC to review. This option is also covered in the Recycle Water Study.10/26/11: Back-up information has still not been received from staff. 8/12: San Diego to conduct business case evaluation and add to Capital Improvement Program as recommend by Metro Commission to San Diego City Council on July 17, 2012 in support of the Recycled Water Study.	Roberto Yano Bob Kennedy Karyn Keese Rita Bell
Recycled Water Study Cost Allocation	A small working group was formed to discuss options to allocate PLWTP offset project costs among the water and wastewater rate payers; Concepts will be discussed at TAC and JPA Board in near future.7/12: Subcommittee to meet with PUD staff & consultants to review TM 8 and economic model.8/12: Subcommittee has meet with City staff and consultants. Economic model has been received. City will not pursue cost allocations until Demonstration Project is complete due to staffing constraints. 6/13: Ad Hoc TAC has started work on cost allocation concept.	Greg Humora Leah Browder Mark Watton Scott Tulloch Rick Hopkins Jim Smyth Karyn Keese
Board Members' Items		
San Diego Wastewater 50 th Anniversary Celebration	5/13: Cheryl Lester presented the draft plan for the Anniversary celebration. She requested Metro Commission/JPA participation. Commission Parks will represent the Commission/JPA. 9/13: The celebration was a big success and was well attended.	Sherryl Parks
Rate Case Items	1/12: San Diego is in the process of hiring a consultant to update their rate case. As part of that process, Metro TAC and the Finance Committee will be monitoring the City's proposals as they move forward. 6/12: San Diego hired Black & Veatch as their rate consultant. 2/13: Preliminary results were reported at the IROC Meeting of 2/19/13. Karyn Keese will be working with the IROC Finance Committee to review details. 3/13: Karyn Keese attended a joint workshop with IROC to review the draft revenue requirement for the Rate Case. 4/13: Next meeting with IROC on the rate case is 5/20/13. 5/13: Next special meeting with IROC is June 24, 2013. 6/13: San Diego is only moving forward with Water Rate Case due to needed rate increase. Wastewater does not appear to need a rate adjustment for two years.	Karyn Keese
Exhibit E	Metro TAC and the Finance Committee are active and will monitor this process. Individual items related to Schedule E will come directly to the Board as they develop. 2/13: 2010 and 2011 audits are ongoing. 3/13: The 2010 audit is complete and has been presented to Metro TAC & the Finance Committee. Will move forward to Commission at 6/13 meeting. 2011 field work is complete. 2012 sample selected.9/13: 2012 preliminary fieldwork is complete. Waiting for PUD's answers to questions.	Karen Jassoy Karyn Keese
Future bonding	Metro TAC and the Finance Committee are active and will monitor this process. Individual items related to bonding efforts will come directly to the Board as they develop. 10/26/11: San Diego is issuing an RFP for a cost of service study to support a future bond issue potentially in mid-2013. Kristin Crane to sit on the selection panel. 2/1 3: San Diego's preliminary rate case does not show the issuance of additional debt until FY 2018.	Karen Jassoy Karyn Keese Kristen Crane
Changes in water legislation	Metro TAC and the Board should monitor and report on proposed and new legislation or changes in existing legislation that impact wastewater conveyance, treatment, and disposal, including recycled water issues	Paula de Sousa
Border Region	Impacts of sewer treatment and disposal along the international border should be monitored and reported to the Board. These issues would directly affect the South Bay plants on both sides of the border. 2/12: This Item does not have a champion. Should we remove?	

MetroTAC Items	Description	Subcommittee Member(s)
SDG&E Rate Case	8/19: Karyn to check with Paula regarding latest SDG&E issues.11/12: Sophie Akins from BBK will present updated information to Metro TAC.	Paula de Sousa
Metro JPA Strategic Plan	6/12: Chairman Ewin to establish a subcommittee to monitor the progress of strategic plan initiatives.	Who should take over?

Completed Items	Description	Subcommittee Member(s)
Debt Reserve and Operating Reserve Discussion	In March 2010, the JPA approved recommendations developed by Metro JPA Finance Committee, MetroTAC, and the City of San Diego regarding how the PA's will fund the operating reserve and debt financing. MetroTAC has prepared a policy document to memorialize this agreement. Project complete: 4/10	Scott Huth Karyn Keese Doug Wilson
State WDRs & WDR Communications Plan	The Waste Discharge Requirements (WDRs), a statewide requirement that became effective on May 2, 2006, requires all owners of a sewer collection system to prepare a Sewer System Management Plan (SSMP). Agencies' plans have been created. We will continue to work to meet state requirements, taking the opportunity to work together to create efficiencies in producing public outreach literature and implementing public programs. Project complete: 5/10. 2/12: State has proposed new WDR regulations. Metro TAC will not reopen but Dennis Davies will stay on top of the issue.	Dennis Davies
Ocean Maps from Scripps	Schedule a presentation on the Sea Level Rise research by either Dr. Emily Young, San Diego Foundation, or Karen Goodrich, Tijuana River National Estuarine Research Reserve Project complete: 5/10	Board Member Item
Secondary Waiver	The City of San Diego received approval from the Coastal Commission and now the Waiver is being processed by the EPA. The new 5 year waiver to operate the Point Loma Wastewater Treatment Plant at advanced primary went into effect August 1, 2010. Project complete 7/10	Scott Huth
Lateral Issues	Sewer laterals are owned by the property owners they serve, yet laterals often allow infiltration and roots to the main lines causing maintenance issues. As this is a common problem among PAs, the MetroTAC will gather statistics from national studies and develop solutions. 4/11: There has been no change to the issue. We will continue to track this item through SCAP and report back when the issue is active again. Efforts closed 3/11	Tom Howard Joe Smith
Advanced Water Purification Demonstration Project	San Diego engaged CDM to design/build/operate the project for the water repurification pilot program. 2/8/11: Equipment arrived 3/2011; tours will be held when operational (June/July 2011 timeframe). 2/12: Tours are available. San Diego whitepaper on IPR distributed to Metro TAC members. Closed 4/18/12	Al Lau
SDG&E Rate Case	SDG&E has filed Phase 2 of its General Rate Case, which proposes a new "Network Use Charge" which would charge net-energy metered customers for feeding renewable energy into the grid as well as using energy from the grid. The proposal will have a significant impact on entities with existing solar facilities, in some cases, increases their electricity costs by over 400%. Ultimately, the Network Use Charge will mean that renewable energy projects will no longer be as cost effective. SDG&E's proposal will damage the growth of renewable energy in San Diego County. A coalition of public agencies has formed to protest this rate proposal. 2/12: PUC has not accepted SDG&E's filing. Metro TAC move to close this item. Will continue to monitor this. 8/19: Karyn to check with Paula regarding latest SDG&E issues.	Paula de Sousa
Metro JPA Strategic Plan	2/2011: committee to meet 2/28/11 to plan for retreat to be held on 5/5/11 Retreat held and wrap up presented to the Commission at their June Meeting. JPA strategic planning committee to meet to update JPA Strategic Plan and prepare action items. 1/12: Draft strategic plan reviewed by Board and referred to Metro TAC for input. MetroTAC has created a subcommittee to work on this project. 2/12: Metro TAC has completed their final review. Forwarded to Commission. 4/12: Adopted at April 2012 Metro JPA Meeting. Project complete.	Augie Caires Ernie Ewin

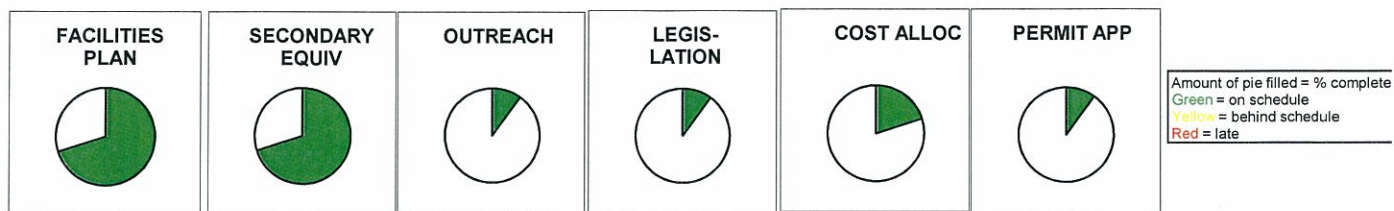
Completed Items	Description	Subcommittee Member(s)
Recycled Water Study	As part of the secondary waiver process, San Diego agreed to perform a recycled water study within the Metro service area. That study is currently underway, and MetroTAC has representatives participating in the working groups. TM #8 Costs estimates are out and PAs provided comments on TM#8 and have asked for a technical briefing. 10/16/11: Final draft of report is due out in November 2011.1/12: Final draft of report is due in March 2012.3/12: Final draft available for comments until 3/19/12 4/12: PUD staff to give presentation to Metro JPA at their May meeting. 5/12 PUD staff presented the Recycled Water Study to the Metro JPA at their May meeting. Metro JPA approved the Study as a planning document. Study to move forward to SD City Council in July 2012 with letter of support from JPA. 7/12: City of San Diego approved the Recycled Water Study; Study submitted on time to Coastal Commission. Final report uploaded to JPA website.11/12: San Diego received a letter from the Coastal Commission. Metro Commission consensus was that based on the tone of the Coastal Commission letter the region may be seeing some time line changes relative to San Diego's projections on the implementation of IPR and that the MetroTAC needs to manage all aspects including the Coastal Commission and multiple issues such as desalination water, Coastal Commissions attitude at this point and pending IPR programs we have heard about.	Scott Huth Al Lau Scott Tulloch Karyn Keese
IRWMP	4/12: Metro TAC received a presentation from Cathy Pieroni (City of San Diego) on the Integrated Regional Water Management Program (IRWMP). Group is still relatively informal but plans to become more structured during its upcoming 2 year plan update. There is a governance & finance work group that starts in the 3rd quarter of 2012 and at that point the JPA role will be examined. Padre Dam and Chula Vista are regular participants. 9/19: Cathy Pieroni gave an update. Recommendation by IRWM to the RAC to include a seat for the Metro JPA. Bob Kennedy will attend the October 3, 2012 meeting representing the JPA. 11/12: At their November 2012 meeting the Metro Commission unanimously appointed Bob Kennedy of Otay Water District as primary and Metro TAC Chairman Greg Humora as alternate to the IRWMPRAC. 2/13: On February 6, 2013 Bob Kennedy attended the IRWMP meeting. Metro JPA has been added as a permanent member of the Water Quality subcommittee of the RAC. The City of San Diego presented an overview of the Recycled Water Study. Next meeting scheduled for April 3, 2013. Closed 4/12 as the Metro JPA has become a member.	Bob Kennedy Greg Humora
Role of Metro JPA regarding Recycled Water	As plans for water reuse unfold and projects are identified, Metro JPA's role must be defined with respect to water reuse and impacts to the various regional sewer treatment and conveyance facilities 2/12: Scott Huth removed as member due to new position. JPA/Metro TAC needs to appoint a new representative. 4/13: Scott Tulloch added to this subcommittee. Metro TAC member needed. 5/13: Greg Humora added to this work group.6/13: This group was formalized by the JPA as the PLWTP Ad Hoc Technical Advisory Committee.	Greg Humora Karyn Keese Scott Tulloch

Point Loma Permit/Potable Reuse KEY MILESTONE DATES

2/19/2014

DATE	TASK	FOLLOW UP ACTION/STATUS
2013		
Dec. 13, 2013	San Diego provide draft facilities plan to stakeholders	Draft provided. Enviro requested if schedule could be accelerated. San Diego provide update on 2/5/14
2014		
January	Begin outreach to regulators, legislators, key stakeholders and public	
1/16/14 8:30-10:30 MOC2-2E	San Diego Define Secondary Equivalency. Provide draft white paper	Comments provided on white paper. Enviro requested an analysis to be run using existing flows as a base line for comparison. Also look a concentration limits. Next meeting TBD
1/23/14 10-12 MOC-II	San Diego meet with JPA on cost allocation. 1) Agree on methodology 2) Insert construction costs from facilities plan	San Diego to look at comparing PR facilities construction through secondary to secondary at Point Loma. Next meeting on 2/20/14
Late January	Preliminary cost estimate and rate impact based on preliminary facilities plan	
02/05/2014 MOC2-2E	San Diego Stakeholders Meeting	
2/20/2014 MOC2-2K	Cost allocation meeting	
February	First draft of legislative language	
February	Seek Congressional sponsor for legislation (Issa/Davis ?)	
2/24/2013	Imperial Beach outfall meeting	
March	Resolve Padre Dam mass balance correction. This is holding up the FY12, FY11, FY10, and FY09 audits	Attorney's met on 1/23/14. The asked San Diego for additional information. Next meeting TBD
March	Resolve North City billing correction	These adjustments may be combined with Padre Dam mass balance corrections
March	Resolve recycled water revenue	These adjustments may be combined with Padre Dam mass balance corrections
6/30/2014	Complete cost analysis and rate impact review Finalize cost allocation method	
September	Finalize facilities plan for inclusion in NPDES permit application	
September	First draft NPDES Permit	
December	Final draft NPDES Permit	
2015		
January	Submit NPDES Permit to the Environmental Protection Agency	

Milestone Progress Dashboard



Metro TAC

Participating Agencies

Selection Panel Rotation

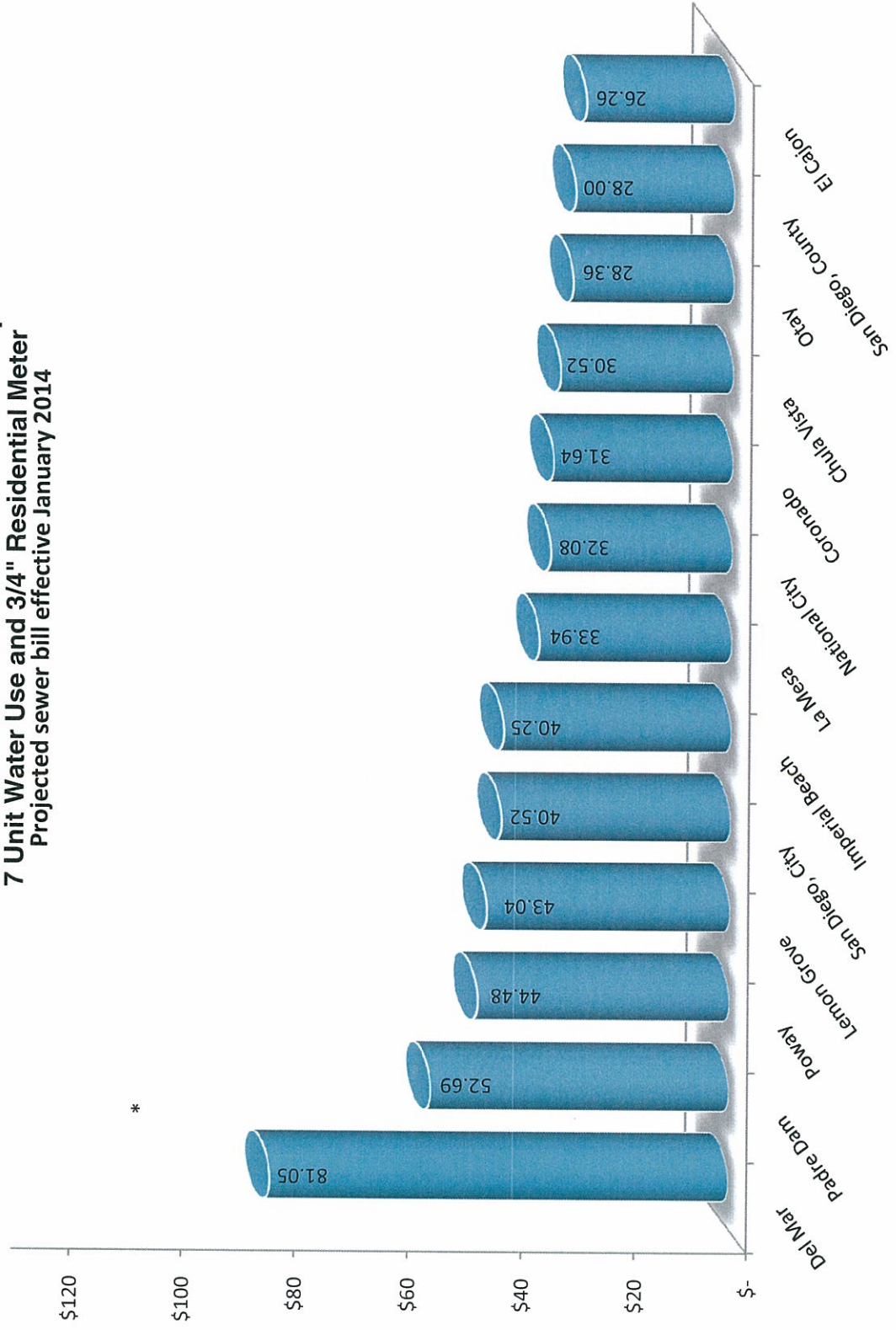
Agency	Representative	Selection Panel	Date Assigned
Padre Dam	Neal Brown	IRWMP – Props 50 & 84 Funds	2006
El Cajon	Dennis Davies	Old Rose Canyon Trunk Sewer Relocation	9/12/2007
La Mesa	Greg Humora	As-Needed Piping and Mechanical	11/2007
National City	Joe Smith	MBC Additional Storage Silos	02/2008
Otay Water District	Rod Posada	As-Needed Biological Services 2009-2011	02/2008
Poway	Tom Howard	Feasibility Study for Bond Offerings	02/2008
County of San Diego	Dan Brogadir	Strategic Business Plan Updates	02/2008
Coronado	Scott Huth	Strategic Business Plan Updates	09/2008
Coronado	Scott Huth	As-needed Financial, HR, Training	09/2008
PBS&J	Karyn Keese	As-needed Financial, Alternate HR, Training	09/2008
Otay Water District	Rod Posada	Interviews for Bulkhead Project at the PLWTP	01/2009
Del Mar	David Scherer	Biosolids Project	2009
Padre Dam	Neal Brown	Regional Advisory Committee	09/2009
County of San Diego	Dan Brogadir	Large Dia. Pipeline Inspection/Assessment	10/2009
Chula Vista	Roberto Yano	Sewer Flow Monitoring Renewal Contract	12/2009
La Mesa	Greg Humora	Sewer Flow Monitoring Renewal Contract	12/2009
Poway	Tom Howard	Fire Alarm Panels Contract	12/2009
El Cajon	Dennis Davies	MBC Water System Improvements D/B	01/2010
Lemon Grove	Patrick Lund	RFP for Inventory Training	07/2010
National City	Joe Smith	Design/Build water replacement project	11/2010
Coronado	Scott Huth	Wastewater Plan update	01/2010
Otay Water District	Bob Kennedy	RFP Design of MBC Odor Control Upgrade/Wastewater Plan Update	02/2011
Del Mar	Eric Minicilli	Declined PS 2 Project	05/2011
Padre Dam	Al Lau	PS 2 Project	05/2011
County of San Diego	Dan Brogadir	RFP for As-Needed Biological Services Co.	05/2011
Chula Vista	Roberto Yano	North City Cogeneration Facility Expansion	07/2011
La Mesa	Greg Humora	confined space RFP selection panel	10/2011
Poway	Tom Howard	CROSS's for both Water and WW	10/2011
El Cajon	Dennis Davies	Independent Accountant Financial Review & Analysis – All Funds	01/2012

Updated 11/2012

EXP

Lemon Grove	Mike James	MBC Dewatering Centrifuges Replacement (Passed)	01/2012
National City	Joe Smith	MBC Dewatering Centrifuges Replacement (Passed)	01/2012
Coronado	Godby, Kim	MBC Dewatering Centrifuges Replacement (Passed)	01/2012
Otay Water District	Bob Kennedy	MBC Dewatering Centrifuges Replacement (Accepted)/Strategic Planning Rep	01/2012
Del Mar	Eric Minicilli	New As Need Engineering Contract	02/2012
Padre Dam	Al Lau	PA Rep. for RFQ for As Needed Design Build Services (Passed)	05/2012
County of San Diego	Dan Brogadir	PA Rep. for RFQ for As Needed Design Build Services (Cancelled project)	05/2012
Chula Vista	Roberto Yano	As-Needed Condition Assessment Contract (Accepted)	06/2012
La Mesa	Greg Humora	New programmatic wastewater facilities condition (Awaiting Response)	11/2012
Poway	Tom Howard	Optimization Review Study	01/2013
El Cajon	Dennis Davies	PUD 2015 Annual Strategic Plan	1/15/14
Lemon Grove	Mike James		
National City	Joe Smith		
Coronado	Godby, Kim		
Otay Water District	Bob Kennedy	Strategic Planning (Volunteered, participated last year)	01/2013
Del Mar	Eric Minicilli		
Padre Dam	Al Lau		
El Cajon	Dennis Davies		
Lemon Grove	Patrick Lund		
National City	Joe Smith		
Coronado	Scott Huth		
Otay Water District	Bob Kennedy		
Del Mar	Eric Minicilli		
Padre Dam	Al Lau		
County of San Diego	Dan Brogadir		
Chula Vista	Roberto Yano		
La Mesa	Greg Humora		

Metro Agency Monthly Sewer User Rate Comparison
7 Unit Water Use and 3/4" Residential Meter
 Projected sewer bill effective January 2014



this Agreement. Subject to the terms of this Agreement, and in conformance with all applicable laws, the City may transfer ownership of all or part of the Metro System at any time. In the event of a transfer, the City's successor shall be bound by the terms of this Agreement. Subject to the terms of this Agreement, any Participating Agency may transfer or assign its rights and obligations under this Agreement. Any transfer shall first be approved by the City. No transfer may occur if the City determines, after consultation with the Participating Agencies involved, that the proposed transfer will imbalance, or will otherwise adversely impact the City's ability to operate the Metro System.

B. Metro System Services.

1. The City shall provide wastewater conveyance, treatment and disposal services to the Participating Agencies through the Metro System, under the terms set forth in this Agreement.

2. The City shall operate the Metro System in an efficient and economical manner, maintaining it in good repair and working order, all in accordance with recognized sound engineering and management practices.

3. The City shall convey, treat, and dispose of or reuse all wastewater received under this Agreement in such a manner as to comply with all applicable laws, rules and regulations.

C. Flow Commitment.

1. Absent agreement of the parties, all Flow from the Participating Agencies and the City, up to the capacity limits set forth in Exhibit B or any amendments thereto, shall remain in the Metro System.

2. This Agreement shall not preclude any Participating Agency from diverting Flow from the Metro System as a result of the construction of reclamation facilities or New Capacity outside of the Metro System.

3. Any Participating Agency may negotiate an agreement with the City to withdraw all Flow from the Metro System, which at a minimum requires the Agency to pay its proportionate share of Capital Improvement Costs.

D. Funding Obligations.

Nothing in this Section or in this Agreement shall obligate the City to make any payment for the acquisition, construction, maintenance or operation of the Metro System from moneys derived from taxes or from any income and revenue of the City other than moneys in or sewer revenues which go into the Sewer Revenue Fund for the Metro System and from construction funds derived from the sale of such sewer revenue bonds for the Metro System as

for the close of escrow, and any other material terms and conditions on which the sale is to be consummated.

3. If the Participating Agencies give timely notice of their intent to respond and timely notice of their acceptance of the Offer, then the City shall be obligated to sell and the Participating Agencies shall be obligated to purchase the Metro System or any individual treatment or reclamation facility or outfall within the Metro System, as applicable, at the price and on the terms and conditions of the Offer. If the Participating Agencies do not give timely notice of their intent to respond or their acceptance of the Offer, or do not submit an offer on the same terms and conditions as the Offer, the City may, following the end of the Offer period, sell the Metro System, or any portion of it, at a price and on terms and conditions no less favorable to the City than those in the Offer. The City shall not sell the Metro System to any third party on terms or at a price less favorable to the City from the terms and price contained in the Offer absent compliance with the terms of this Section.

4. Nothing herein shall prevent the City from entering into a financing agreement which may impose limits on the City's power to sell the Metro System to the Participating Agencies pursuant to Section H.1. if the City believes that such a financing agreement is in the City's best interest. Neither the entry into such a financing agreement by the City nor the performance thereof by the City shall constitute a breach or default by the City hereunder.

III. PAYMENT AND MONITORING PROVISIONS

A. Payment for Metro System Facilities.

Through the system of charges set forth in Section V of this Agreement, each Participating Agency shall pay its share of the costs of planning, design and construction of all of the Metro System facilities which are identified in Exhibit A hereto, which is incorporated herein by reference.

B. Payment for Additional Metro System Facilities.

Through the system of charges set forth in Section V of this Agreement, each Participating Agency shall pay its share of the costs of acquisition, or planning, design and construction of such facilities in addition to those set forth on Exhibit A as are necessary for the Metro System to maintain compliance with applicable laws, rules and regulations, including the Ocean Pollution Reduction Act of 1994 and its successor(s), present and future waivers of applicable treatment standards at any Metro System treatment facility, and all facilities as are necessary to convey, treat, dispose, and reuse wastewater in the Metro System to provide the Contract Capacity set forth in Exhibit B, to maintain hydraulic capacity and as otherwise required by sound engineering principles. As a ministerial matter, the City shall amend Exhibit A from time to time to reflect such additional facilities and shall give notice of any amendments

to the Participating Agencies. The City shall keep an updated version of Exhibit A on file with the City Clerk. Exhibit A may be amended to reflect other changes to the Metro System only as expressly provided in this Agreement.

C. Payment for Operation and Maintenance.

Through the system of charges set forth in Section V of this Agreement, each Participating Agency shall pay its share of the Operation and Maintenance Costs of all Metro System facilities. Provided however, that the Participating Agencies shall not pay for the Operation and Maintenance Costs of the Tertiary Component of the North City Water Reclamation Plant that can be allocated solely to the production of Repurified Water.

D. Charges Based on Flow and Strength.

A Participating Agency's share of the charges in this Section shall be assessed pursuant to Section V of this Agreement based on its proportionate Flow in the Metro System and the Strength of its wastewater.

E. Monitoring Flow and Strength.

1. The City shall monitor wastewater that is discharged into the Metro System for Flow and Strength. The City shall own and operate as part of the Metro System monitoring devices which will measure the amount of daily wastewater discharged into the Metro System. These devices shall be installed at locations appropriate to accurately monitor Flow and Strength. The City may also monitor wastewater Flow and Strength at other locations as it deems appropriate.

2. In measuring Strength, the frequency and nature of the monitoring shall not be more stringent for the Participating Agencies than it is for the City.

3. The City shall provide its plans for the monitoring system and for the procedures it will use to determine Strength to the Participating Agencies for review and comment prior to implementation.

4. The City shall report Flow and Strength data to the Participating Agencies at least quarterly.

IV. CAPACITY RIGHTS

A. Contract Capacity.

In consideration of the obligations in this Agreement, each Participating Agency shall have a contractual right to discharge wastewater to the Metro System up to the Contract Capacity set forth in Exhibit B.

B. Transfers of Contract Capacity.

The Participating Agencies and the City may buy, sell or exchange all or part of their Contract Capacity among themselves on such terms as they may agree upon. The City shall be notified prior to any transfer. Any transfer shall be first approved by the City. No Contract Capacity may be transferred if the City determines, after consultation with the Participating Agencies involved in the transaction, that said transfer will unbalance, or will otherwise adversely impact the City's ability to operate the Metro System. Provided, however, that the Participating Agency seeking the transfer may offer to cure such imbalance at its own expense. Following the City's consent, as a ministerial matter, the Contract Capacity set forth in Exhibit B shall be adjusted to reflect the approved transfer.

C. Allocation of Additional Capacity.

The parties recognize that the City's applicable permits for the Metro System may be modified to create capacity in the Metro System beyond that set forth in Exhibit B as a result of the construction of additional facilities or as a result of regulatory action. This additional capacity shall be allocated as follows:

1. Except as provided in subsection 2 below, in the event that the Metro System is rerated so that additional permitted capacity is created, said capacity shall be allocated proportionately based upon the Metro System charges that have been paid since July 1, 1995 to the date of rerating.

2. In the event that the additional permitted capacity is created as the result of the construction of non-Metro System facilities, or as the result of the construction of facilities pursuant to Section VII, such additional capacity shall be allocated proportionately based on the payments made to plan, design and construct such facilities.

D. Reductions in Contract Capacity.

The parties further recognize that the Contract Capacity in Exhibit B may be modified to comply with, or in response to, applicable permit conditions, or related regulatory action, or sound engineering principles. In the event that the capacity of the Metro System is rerated to a level below the total capacity set forth in Exhibit B, the Contract Capacity in Exhibit B shall be reallocated proportionately pending the acquisition or construction of new facilities.

The City shall acquire or construct such facilities as necessary to provide the Contract Capacity rights set forth in Exhibit B, as planning and capacity needs require. The costs of such facilities shall be assessed pursuant to Section III.B. above.

E. Amendments to Exhibits B and C.

As a ministerial matter, the City shall prepare amendments to Exhibits B and C to reflect any adjustment in Contract Capacity pursuant to this Section within ninety (90) days after the adjustment is made. The City shall give notice of the amendments to each Participating Agency, and shall provide copies of the amendments with the notice. The City shall keep an updated version of Exhibits B and C on file with the City Clerk.

F. The South Bay Land/Ocean Outfall.

Nothing in this Section shall limit the City's right to transfer capacity service rights in that portion of the South Bay Land/Ocean Outfall which is not part of the Metro System.

V. SYSTEM OF CHARGES

A. Charges Authorized.

The City agrees to implement and the Participating Agencies agree to abide by a new system of charges. This new system allows the City to equitably recover from all Participating Agencies their proportional share of the net Metro System Costs through the imposition of the following charges:

1. SSC (Sewer System Charge);
2. ECC (Existing Capacity Charge);
3. NCCC (New Contract Capacity Charge).

B. SSC (Sewer System Charge).

The City shall determine the SSC based on the projected Metro System Costs (as defined below) for the forthcoming fiscal year, less all Metro System Revenues (as defined below).

1. Metro System Costs

a. The following shall at a minimum be considered Metro System Costs for purposes of calculating the annual SSC:

**City of San Diego
Metropolitan Sewerage System**

Metro Facilities

I. Original Facilities

- Pt. Loma Wastewater Treatment Plant
- Pt. Loma Ocean Outfall
- Pump Station #1
- Pump Station #2
- South Metro Interceptor
- North Metro Interceptor
- Metro Force Mains 1 & 2
- Digested Sludge Pipeline
- Fiesta Island Sludge Processing Facility
- Fiesta Island Centrate Pipeline.

II. Fiesta Island Replacement Project (FIRP) And State Ocean Plan (SOP) Compliance Facilities

- Pt. Loma Outfall Extension
- Fiesta Island Replacement Project Digested Sludge Pipeline
- Fiesta Island Replacement Project Pump Station
- Metro Biosolids Center (FIRP Facilities)

III. Other Metro Facilities

- North City Water Reclamation Plant
- Metro Biosolids Center (NCWR Plant Related Facilities)
- North City Tunnel Connector
- North City Raw Sludge Pipeline
- Centrate Pipeline
- Rose Canyon Parallel Trunk Sewer
- Second Rose Canyon Trunk Sewer
- East Mission Bay Trunk Sewer
- Morena Blvd. Interceptor
- South Bay Water Reclamation Plant
- Dairy Mart Road & Bridge Rehab¹
- Grove Avenue Pump Station
- Grove Avenue Pump Station Sewer Pipeline

¹ The City and the Participating Agencies shall continue their joint effort to seek federal funding for the Dairy Mart Road and Bridge Rehabilitation Project with a goal of requiring 60% federal participation.

**City of San Diego
Metropolitan Sewerage System**

Contract Capacities

Annual Average Daily Flow
in
Millions of Gallons Per Day

<u>Metro Agency</u>	<u>Original Contract Capacity</u>	<u>Additional Contract Capacity¹</u>	<u>New Contract Capacity²</u>	<u>Transferred Contract Capacity³</u>	<u>Total Contract Capacity</u>	<u>Percent of Total</u>
Chula Vista	19.843	0.000	0.000	0.000	19.843	8.268%
Coronado	3.078	0.000	0.000	0.000	3.078	1.283%
Del Mar	0.821	0.000	0.000	0.000	0.821	0.342%
El Cajon	10.260	0.000	0.000	0.000	10.260	4.275%
Imperial Beach	3.591	0.000	0.000	0.000	3.591	1.496%
La Mesa	6.464	0.000	0.000	0.000	6.464	2.693%
Lakeside-Alpine	4.586	0.000	0.000	0.000	4.586	1.911%
Lemon Grove	2.873	0.000	0.000	0.000	2.873	1.197%
National City	7.141	0.000	0.000	0.000	7.141	2.975%
Otay	1.231	0.000	0.000	0.000	1.231	0.513%
Padre Dam	6.382	0.000	0.000	0.000	6.382	2.659%
Poway	5.130	0.000	0.000	0.000	5.130	2.138%
Spring Valley	10.978	0.000	0.000	0.000	10.978	4.574%
Wintergardens	<u>1.241</u>	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>	<u>1.241</u>	<u>0.517%</u>
Subtotal	83.619	0.000	0.000	0.000	83.619	34.841%

<u>Metro Agency</u>	<u>Original Contract Capacity</u>	<u>Additional Contract Capacity¹</u>	<u>New Contract Capacity²</u>	<u>Transferred Contract Capacity³</u>	<u>Total Contract Capacity</u>	<u>Percent of Total</u>
San Diego	<u>156.381</u>	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>	<u>156.381</u>	<u>65.159%</u>
Total	240.000	0.000	0.000	0.000	240.000	100.00%

1. Additional Contract Capacity is capacity allocated pursuant to Section IV.C. of this Agreement.
2. New Contract Capacity is capacity obtained pursuant to Section VII. of this Agreement.
3. Transferred Contract Capacity is capacity obtained pursuant to Section IV.B. of this Agreement.

**City of San Diego
Metropolitan Sewerage System
Existing Capacity Charge Listing**

<u>PARTICIPATING AGENCY</u>	ANNUAL CAPACITY CHARGE THROUGH FEBRUARY 1, 2003
Chula Vista	\$219,892
Coronado	25,613
El Cajon	108,277
Imperial Beach	33,138
La Mesa	62,334
Lemon Grove	22,872
National City	71,495
Spring Valley	114,663
Del Mar	20,408
Otay Water District	14,518
Lakeside/Alpine	155,901
Padre Dam Muni. Water District	151,888
Poway	162,949
Wintergardens	<u>33,856</u>
AGENCIES TOTAL	\$1,197,804

Point Loma Permit/Potable Reuse KEY MILESTONE DATES



04/10/2014

DATE	TASK	FOLLOW UP ACTION/STATUS
2013		
Dec. 13, 2013	San Diego provide draft facilities plan to stakeholders	Draft provided. Enviro requested if schedule could be accelerated. San Diego provide update on 2/5/14
2014		
January	Begin outreach to regulators, legislators, key stakeholders and public	
4/16/14 8:30-10:30 MOC 2E	San Diego Define Secondary Equivalency. Provide draft white paper	Comments provided on white paper. Enviro requested an analysis to be run using existing flows as a base line for comparison. Also look a concentration limits. Next meeting TBD
4/23/14 10-12 MOC II	San Diego meet with JPA on cost allocation. 1) Agree on methodology 2) Insert construction costs from facilities plan	San Diego to look at comparing PR facilities construction through secondary to secondary at Point Loma. Next meeting on 2/20/14
Late January	Preliminary cost estimate and rate impact based on preliminary facilities plan	
02/05/2014 MOC 2E	San Diego Stakeholders Meeting	
February	First draft of legislative language	Draft prepared
February	Seek Congressional sponsor for legislation (Issa/Davis ?)	Need to define secondary equivalency 1st
02/24/2013	Imperial Beach outfall meeting	Halla agreed to look at additional potable reuse to reduce south bay discharge
03/05/2014	San Diego (Ann, Brent, Bob, Allan) meet with EPA staff	Pure Water program was well received by EPA
03/06/2014	Cost allocation meeting	
March	Resolve Padre Dam mass balance correction. This is holding up the FY12, FY11, FY10, and FY09 audits	Attorney's met on 4/4/14. Settlement pending
March	Resolve North City billing correction	These adjustments may be combined with Padre Dam mass balance corrections
March	Resolve recycled water revenue	These adjustments may be combined with Padre Dam mass balance corrections
03/07/2014	Presentation to SANDAG Regional Planning Committee	Presentation was well received
03/13/2014	Stakeholders Meeting	
03/27/2014	San Diego County Water Authority Board Meeting	CWA voted to delay changes in cost allocations until 2016
04/03/2014	Cost allocation meeting	Meeting was canceled by San Diego
04/21/2014	San Diego Stakeholders Meeting	
06/30/2014	Complete cost analysis and rate impact review Finalize cost allocation method	
September	Finalize facilities plan for inclusion in NPDES permit application	
September	First draft NPDES Permit	
December	Final draft NPDES Permit	
2015		
January	Submit NPDES Permit to the Environmental Protection Agency	

Milestone Progress Dashboard

