



**THE CITY OF SAN DIEGO**

**M E M O R A N D U M**

DATE: October 15, 2015

TO: Metro Technical Advisory Committee (Metro TAC)

FROM: Rania Amen, Deputy Director, Public Utilities Department

SUBJECT: FY2015 Capital Improvement Projects (CIP) – Year-End Report

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The Public Utilities Department hereby submits the FY2015 CIP year-end report.

This report includes project highlights, forecast and actual expenditures, and project change orders.

# **CIP PROJECT HIGHLIGHTS**

## **South Bay Water Reclamation Plant Demineralization**

This project proposes to relocate two trailer mounted Electrodialysis Reversal (EDR) units from North City Water Reclamation Plant (NCWRP) to South Bay Water Reclamation Plant (SBWRP).

This new demineralization facility at SBWRP will enable the plant to control regulated levels of chloride and maintain the TDS level below 1000 mg/L. The project scope includes the addition/modifications of civil, mechanical, electrical, chemical, and control system integration at SBWRP to accommodate the EDR trailer units. In addition, modification of mechanical, electrical, instrumentation & control systems will be required with the removal of the EDR units at NCWRP.

The design-build delivery method is being used for this project. Construction began in December 2014 and is estimated to be completed in early 2016. The estimated total project cost is \$5.97 million.



New feed water piping and concrete bases for vertical turbine pumps

## Backup Generators at Sewer Pump Stations, Treatment Plant & EMTS

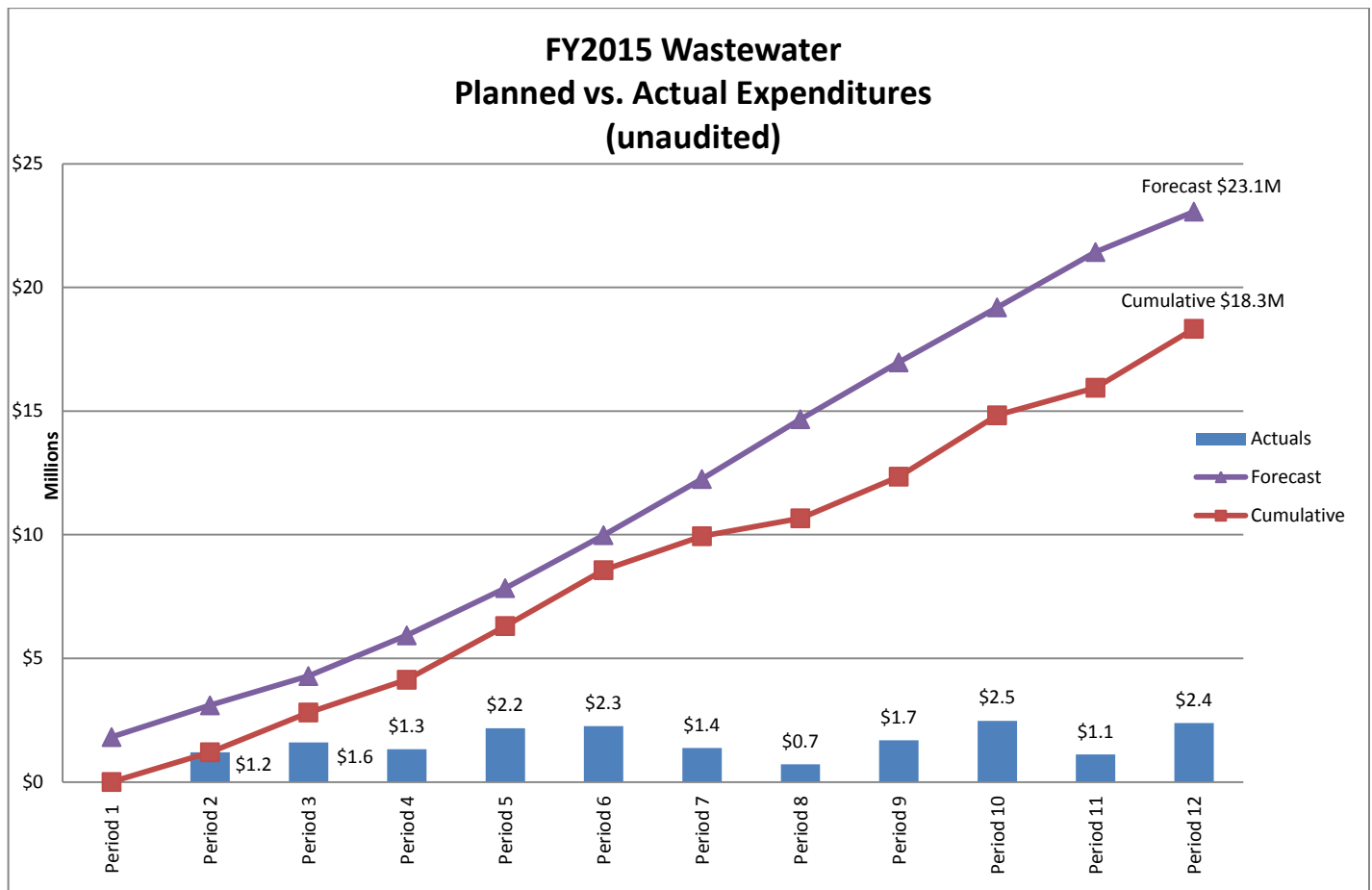
This project will purchase seven generators and provide a design-build contract to install the generators and associated equipment for a permanent power connection to existing sewer Pump Stations 1, 64, 65, Penasquitos, North City Reclamation Plant, and the Environmental Monitoring Technical Services (EMTS) laboratory.

The design-build delivery method is being used for this project. Construction began in July 2014 and is anticipated to be completed by December 2015. The estimated total project cost is \$17.75 million.



Diesel fuel tank for one of the existing generators at Sewer Pump Station No.1

## WASTEWATER PROJECT UPDATES





FY15 REPORT - FOURTH QUARTER - WASTEWATER PROJECTS

SCHEDULE OF COST OF SERVICES STUDY (COSS) VS ACTUALS

As of June 30, 2015

(Financial data was run on August 10 and may not be final)

NOTES:
- Projects are listed from highest to lowest revised project cost per asset type
- Metro wastewater projects only
- All post construction/completed projects are listed at the end of the schedule
-TBD are projects that are being implemented but have not yet established a baseline

* FY12 baseline being replaced with Cost of Service Study (COSS) amount
Projects with \$1 mil or more in estimated project cost change (increase/decrease)
Projects six or more months behind schedule in design/construction phases
Projects on the radar

COSS = Cost of Service Study
BO/BU = Beneficial Occupancy/Beneficial Use (aka Substantial Completion)
Variance = difference between COSS BO/BU and ECP BO/BU in working days
A = Actual Milestone

WASTEWATER PROJECTS									Start Date	Planning/Design/Award Phase			Construction Phase		
Funded Program	Project Name	Status	COSS Estimated Total Project Cost	Revised Project Cost	Project to Date Expenditures (thru FY15, Period 12)	Encumbrances at FY15 Period 12	Project Balance (Revised Proj Cost less Expenditures less Encumbrances)	% Spent (Expenditures /Revised Proj Cost)		COSS Final Design Approval - End	Final Design Approval - End	Final Design Approval - End Variance	COSS BO/BU	BO/BU	BO/BU Variance
	LARGE SEWER PUMP STATIONS - METRO														
S00312	* PS2 Power Reliability & Surge Protection	Design	\$31,200,000	\$43,100,000	\$2,259,555	\$599,070	\$40,241,375	5.2%	11/1/10 A	3/18/2015	2/8/2016	240	5/12/2017	8/30/2019	616
S00309	* NCWRP Sludge Pump Station Upgrade	Construction	\$636,294	\$636,294	\$416,250	\$0	\$220,044	65.4%	4/1/10 A	1/27/2012	1/27/2012	0	6/5/2013	3/17/2016	745
	OTHER - METRO														
S00319	EMT&S Boat Dock & Steam Line Relocation	Design	\$2,018,535	\$2,018,535	\$73,171	\$17,203	\$1,928,161	3.6%	7/1/2011 A	5/30/2014	10/30/2014	112	12/23/2015	6/30/2016	139
S00314	* Wet Weather Storage Facility	Planning	\$7,272,127	TBD	\$2,357,156	\$20,730			TBD	3/7/2016	TBD		1/24/2018	TBD	
	SEWER TREATMENT PLANTS - METRO														
S00315	* Point Loma Grit Processing Improvements	Construction	\$32,922,630	\$37,095,037	\$33,739,708	\$1,071,057	\$2,284,273	91.0%	1/18/00 A	9/30/2010	9/30/2010	0	12/17/2013	8/17/2015	446
S00339	* MBC Dewatering Centrifuges Replacement	Construction	\$12,000,000	\$12,122,443	\$4,435,979	\$6,251,942	\$1,434,522	36.6%	7/1/11 A	3/21/2012	3/21/2012	0	1/12/2016	4/12/2016	67
S00323	* MBC Odor Control Facility Upgrades	Adv/Bid/Award	\$6,200,000	\$6,615,612	\$1,102,286	\$346,983	\$5,166,343	16.7%	12/1/10 A	11/19/2013	3/19/2015	356	11/12/2015	3/14/2017	358
B10178	* MBC Chemical System Improvements Phase 2	Adv/Bid/Award	\$5,070,000	\$6,090,354	\$1,150,198	\$212,884	\$4,727,271	18.9%	2/14/11 A	10/4/2013	2/27/2015	375	4/8/2015	3/24/2017	525
S00310	SBWR Plant Demineralization	Construction	\$3,279,133	\$5,973,695	\$2,031,965	\$2,360,870	\$1,580,861	34.0%	8/1/12 A	11/30/2012	11/30/2012	0	10/2/2013	9/17/2015	524
B14167	SBWRP sludge Pump & Grinder Installation	Adv/Bid/Award	N/A	\$789,000	\$115,821	\$26,617	\$646,562	14.7%		N/A	9/1/2015		N/A	4/21/2016	
B13227	Emergency Strobe Lights at MBC, NC, SB	Construction	TBD	\$754,000	\$211,577	\$194,815	\$347,609	28.1%	9/3/13 A	TBD	9/30/2015		TBD	8/3/2015	
	TRUNK SEWERS - METRO														
B11025	Rose Canyon TS (RCTS) Joint Repair	Design	\$6,233,000	\$6,233,000	\$300,567	\$503,640	\$5,428,793	4.8%	3/1/2009	3/13/2013	1/20/2016	765	8/27/2015	3/30/2017	426
B11098	W PTL Intercept & PS 2 FM Siphon Repair	Adv/Bid/Award	\$1,500,000	\$1,700,000	\$75,672	\$1,949,690	-\$325,362	4.5%	3/1/2010 A	12/24/2012	12/24/2012	0	6/30/2014	3/30/2015	200
	SEWER TREATMENT PLANTS - MUNI/METRO														
S12036	Backup Generators at Sewer PS's, TP, & EMTS	Construction	\$17,745,600	\$17,745,600	\$13,734,773	\$1,132,124	\$2,878,702	77.4%	9/9/11 A	9/23/2013	10/1/2013	6	10/30/2014	3/30/2015	111
	OTHER - MUNI/METRO														
S14022	MOC Complex Solar Project	Design	N/A	\$2,675,000	\$28,745	\$0	\$2,646,255	1.1%		N/A	9/1/2015		N/A	9/2/2016	
S14000	EAM ERP Implementation	#N/A	N/A	TBD	\$360,962	\$239,143				N/A	TBD		N/A	TBD	
	POST CONSTRUCTION/COMPLETE PROJECTS														
	COMPLETED PROJECTS - METRO														
B00313	* PS 1&2 ELECTRICAL UPG & NEW BLDG AT PS2	Complete	\$9,935,000	\$10,085,000	\$10,063,804	\$29,453	-\$8,257	99.8%	11/1/06 A	N/A	N/A		3/4/2013	2/10/2015	519
B10085	* PTL Sedimentation Basins Equip Refurbish	Complete	\$7,954,500	\$7,554,500	\$7,452,110	\$0	\$102,390	98.6%	4/1/10 A	5/6/2011	5/6/2011	0	5/2/2013	8/3/2013	68
B11139	* North City Cogeneration Facility Expansion	Complete	\$4,200,000	\$4,200,000	\$4,093,954	\$15,341	\$90,705	97.5%	5/18/11 A	12/16/2011	12/16/2011	0	3/26/2013	11/12/2013	169
L100001	* Ovation Upgrade at Pt Loma Wastewater Trmt Plant	Complete	\$4,180,000	\$4,180,000	\$3,865,324	\$0	\$314,676	92.5%	10/23/09 A	3/22/2010	3/22/2010	0	2/6/2013	6/3/2013	86
L100002	Ovation Upgrade at North City WRP	Complete	\$3,070,000	\$3,070,000	\$2,559,499	\$0	\$510,501	83.4%	10/23/09 A	3/22/2010	3/22/2010	0	6/5/2014	11/24/2014	126
B00528	* MBC WATER SYSTEMS IMPROVEMENTS	Complete	\$1,179,355	\$1,179,355	\$1,207,805	\$0	-\$28,450	102.4%	5/26/09 A	N/A	N/A		2/13/2012	2/13/2012	0
B00316	* MBC ACCESS ROAD DRAINAGE IMPROVEMENTS	Complete	\$288,184	\$288,184	\$468,890	\$0	-\$180,706	162.7%	1/5/07 A	5/25/2011	5/25/2011	0	5/1/2012	5/1/2012	0
B11076	PTLWTP PC 6 Transformer Cabinet & Switchboard Repl	Complete	N/A	N/A	\$364,671	\$0				N/A	N/A		N/A	N/A	
B14075	Harbor Drive Conduit Pipeline	Complete	N/A	TBD	\$222,641	\$0				N/A	N/A		N/A	N/A	
S00322	* MBC Biosolids Storage Silos	Complete	\$7,553,500	\$9,047,838	\$8,108,759	\$590,490	\$348,589	89.6%	3/1/2006	11/15/2012	11/15/2012	0	10/7/2014	7/16/2015	207

FY15 Change Order Log							
WBS	PROJECT TITLE	PREVIOUSLY AUTHORIZED PROJECT COST (ORIGINAL CONTRACT AMOUNT)	TOTAL CHANGE ORDER (CCO) AMOUNT TO DATE	ENGINEERING RELATED COSTS	REVISED TOTAL COST	CCO/ ORIGINAL TOTAL PROJECT COST %	DESCRIPTION
4 <sup>th</sup> QTR FY15 (4/1/2015-6/30/2015)							
None.							
3rd QTR FY15 (1/1/2015-3/31/2015)							
None.							
2nd QTR FY15 (10/01/-2014 - 12/31/2014)							
None.							
1st QTR FY15 (07/01/-2014 - 9/30/2014)							
None.							