

## **Public Utilities**



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The Public Utilities Department provides water, wastewater, and recycled water services to approximately 1.4 million water customers and 2.5 million wastewater customers within the San Diego region. The Department's Capital Improvement Program (CIP) supports the infrastructure for reliable water supply and wastewater collection and treatment. The water system extends over 404 square miles with demands of approximately 171 million gallons per day (mgd). This system includes 49 water pump stations, 29 treated water storage facilities, three water treatment plants, and over 3,000 miles of pipelines. The Department also manages the recycled water system, which includes three pump stations and over 80 miles of purple pipe delivering an annual average of over 10 mgd for irrigation, manufacturing, and other non-potable uses.

The wastewater system consists of the Municipal (Muni) System and Metropolitan (Metro) System. The Muni System consists of approximately 3,000 miles of pipelines and 77 sewer pump stations and is primarily used to collect and convey wastewater from residences and businesses in the City of San Diego. The Metro System consists of three wastewater treatment plants, one biosolids processing facility, four large pump stations, and two outfalls. The system provides treatment and disposal services for the City and 12 other agencies and districts within a 450 square mile area; stretching from Del Mar to the north, Alpine and Lakeside to the east, and San Ysidro to the south.

The Department is launching proven innovative water purification technology known as Pure Water San Diego. Pure Water San Diego is a 20 year cost effective, integrated water and wastewater capital improvement program. The program is designated to provide a safe, secure, and sustainable local water supply by turning recycled water into drinkable water through the use of water purification technology.

Funding for water and wastewater projects are provided by a variety of sources which can include bond financing, water and sewer rates, state revolving fund loans, and grants. Approximately 34 percent of all Metro Fund expenditures are funded by Participating Agencies. The CIP program includes water projects mandated in the Compliance Order from the California Department of Public Health (CDPH), currently known as the State Water Resources Control Board - Division of Drinking Water (DDW). These projects will meet the requirements of the federal Safe Drinking Water Act. In addition, the Department continues to replace/rehabilitate aging infrastructure in compliance with the Clean Water Act.

### **2017 CIP Accomplishments**

As of June 30, 2017, the Department awarded 33.1 miles of water mains and completed the replacement and rehabilitation of 47.4 miles of sewer mains. The Department also televised 53.2 miles of sewer mains as of June 30, 2017. To date, over 1,985 miles of sewer mains have been assessed and more than 748 miles have been identified for replacement or rehabilitation.

The Public Utilities Department, in cooperation with the Public Works Department, oversees the design and construction of water, wastewater, and recycled water projects. The following accomplishments have occurred in Fiscal Year 2017:

- Construction was completed on the MBC Odor Control Facility Upgrades project, which consisted of upgrading odor control system fans and ducting to reduce system head losses and improve overall foul air collection efficiency at the various process areas.
- Construction was completed on the Sewer & Water Group Job 814 (S), which consisted of the replacement of 7,328 linear feet of sewer mains in the Pacific Beach and Mission Beach Communities.
- Construction began on the Chollas Building in the Mid-City Community, within Council District 7. This design build project will construct two new buildings, one two-story building for administration staff and a one-story maintenance shop. This project is anticipated to be completed by July 2019.
- Construction began on the MOC Complex Solar Project and Bayview Reservoir Solar Project in the Kearny Mesa community and La Jolla community, respectively. The MOC Complex project includes installation of 500 kW solar photovoltaic systems that will cover approximately 55,000 sq. feet at the MOC Complex rooftops and approximately 214,625 sq. feet of parking lots to provide energy to the MOC Complex buildings. The Bayview reservoir project includes installation of similar systems that will cover approximately 40,000 sq. feet of the Bayview reservoir rooftop to provide energy to the Bayview Water Pump Station. Both projects are anticipated to be completed by May 2018.
- Construction began on the Pipeline Rehabilitation AE-1 Project, which consisted of the rehabilitation of approximately 8.8 miles of existing 8" and 10" deteriorated sewer mains in the Clairemont Mesa community.
- Construction began on the Tierrasanta (Via Dominique) Pump Station in the Tierrasanta Community, within Council District 7. This project will construct a new 14 million gallons per day (mgd) pump station adjacent to the location of the existing Via Dominique Pump Station and installation of approximately 3,000 linear feet of 20-inch PVC water main along Clairemont Mesa Blvd. The project also includes demolition of the existing Tierrasanta Temporary Pump Station. This project is anticipated to be completed by December 2018.
- Completed all key Phase I - North City Preliminary Designs and 30% Design for the North City Pure Water Facility.
- Completed the Pure Water Program Environmental Impact Report, which was approved and certified on October 25, 2016.
- Held the first Pure Water Open House with more than 400 people attending the event to learn about the Pure Water Program and tour the demonstration facility.

### 2018 CIP Goals

The Public Utilities Department's goal is to provide safe drinking water to the 1.4 million residents of San Diego, and regional wastewater treatment and disposal services for 2.5 million wastewater customers in the San Diego region.

In order to improve its aging infrastructure, the Public Utilities Department continues to replace and rehab about 45 sewer miles and 30-35 water miles per fiscal year. These capital needs are based on condition assessment results, future demand, policies, and regulatory requirements to continue providing reliable service to our customers.

Public Utilities has developed a robust condition assessment program to provide comprehensive assessment coverage for water and wastewater infrastructure including water transmission lines, dams, reservoirs, and large diameter wastewater pipelines. In addition, the Department continues its ongoing condition assessment efforts including inspection of 50-60 miles of sewer mains per fiscal year.

In Fiscal Year 2018, the Department anticipates to accomplish the following for the Pure Water:

- Phase One Program: award the contract for construction management services; advertise the first construction project for future award; and complete the project specific environmental impact report.



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## Public Utilities: Capital Improvement Projects

Project	Prior Fiscal Years	FY 2018 Adopted	Future Fiscal Years	Project Total
30th Street Pipeline Replacement / S12010	\$ 2,921,187	\$ 8,000,000	\$ 11,578,813	\$ 22,500,000
69th & Mohawk Pump Station / S12011	5,614,629	6,000,000	6,863,985	18,478,614
Advanced Metering Infrastructure / S17008	38,375,590	27,411,444	1,781,864	67,568,898
Alvarado 2nd Extension Pipeline / S12013	1,703,986	2,500,000	54,842,014	59,046,000
Alvarado Trunk Sewer Phase IV / S15019	3,200,000	2,000,000	23,696,000	28,896,000
Backup Generators at SPS's, TP & EMTS / S12036	15,345,600	-	-	15,345,600
Bayview Reservoir Solar Project / S14021	2,325,000	-	-	2,325,000
Catalina 12inch Cast Iron Mains / S12008	10,940,000	1,540,000	-	12,480,000
Chollas Building / S11025	11,600,000	17,006,500	11,870,370	40,476,870
Cielo & Woodman Pump Station / S12012	1,532,000	1,000,000	4,146,000	6,678,000
Corrosion Control / AKA00001	479,784	-	-	479,784
Del Mar Heights Pipeline Relocation / S00070	7,950,000	-	-	7,950,000
El Monte Pipeline No 2 / S10008	2,948,000	-	14,973,010	17,921,010
EMTS Boat Dock and Steam Line Relocation / S00319	518,535	-	1,500,000	2,018,535
Freeway Relocation / AKB00002	2,089,774	-	400,000	2,489,774
Groundwater Asset Development Program / ABM00001	1,977,605	700,000	1,692,408	4,370,013
Harbor Dr TS Participation Agreement / RD16001	791,250	1,000,000	11,631,582	13,422,832
Instrumentation and Control / AKB00007	200,000	-	2,000,000	2,200,000
La Jolla Scenic Drive 16inch Main / S12009	6,039,642	3,192,358	-	9,232,000
La Jolla View Reservoir / S15027	2,485,000	440,000	22,410,313	25,335,313
Large Diameter Water Transmission PPL / AKA00003	16,072,357	16,343,400	50,547,051	82,962,808
Little McGonigle Ranch Road Pipeline / S00069	3,564,000	-	2,436,000	6,000,000
Lower Otay Outlet Tower / S12018	1,000,000	-	990,811	1,990,811
Lower Otay Reservoir Emer Outlet Improve / S00044	1,179,971	-	-	1,179,971
MBC Biosolids Storage Silos / S00322	8,547,838	-	-	8,547,838
MBC Dewatering Centrifuges Replacement / S00339	12,122,443	-	-	12,122,443
MBC Equipment Upgrades / S17013	700,000	400,000	-	1,100,000
MBC Odor Control Facility Upgrades / S00323	7,715,612	-	-	7,715,612
Metropolitan System Pump Stations / ABP00002	10,613,703	-	2,823,507	13,437,210
Metropolitan Waste Water Department Trunk Sewers / AJB00001	6,325,542	7,837,584	6,875,095	21,038,221
Metro Treatment Plants / ABO00001	9,321,130	2,450,000	560,000	12,331,130
Miramar Clearwell Improvements / S11024	44,244,991	37,087,853	38,995,900	120,328,744
MOC Complex Solar Project / S14022	2,675,000	-	-	2,675,000
Montezuma/Mid-City Pipeline Phase II / S11026	8,018,200	-	23,536,800	31,555,000
Morena Pipeline / S16027	2,796,014	3,202,101	28,686,638	34,684,753

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Project	Prior Fiscal Years	FY 2018 Adopted	Future Fiscal Years	Project Total
Morena Reservoir Outlet Tower Upgrade / S00041	3,980,000	-	16,520,000	20,500,000
NCWRP Improvements to 30 MGD / S17012	300,000	1,400,000	-	1,700,000
NCWRP Sludge Pump Station Upgrade / S00309	907,096	-	-	907,096
New 16" Water Mains (U-3) / RD15003	1,225,000	-	-	1,225,000
North City Reclamation System / AHC00002	2,813,291	-	-	2,813,291
Otay 1st/2nd PPL Abandon E of Highland / S11027	6,833,390	-	-	6,833,390
Otay 1st/2nd PPL West of Highland Avenue / S12016	2,163,051	1,950,000	25,327,449	29,440,500
Otay Second Pipeline Relocation-PA / S15016	1,634,092	200,000	26,259,132	28,093,224
Otay WTP Concrete Work / S11059	4,551,305	-	-	4,551,305
Pacific Beach Pipeline South (W) / S12015	13,609,860	9,271,723	16,228,860	39,110,443
Pipeline Rehabilitation / AJA00002	118,539,407	11,759,341	62,084,800	192,383,548
Point Loma Grit Processing Improvements / S00315	37,095,037	-	-	37,095,037
Pressure Reduction Facility Upgrades / AKA00002	350,000	500,000	-	850,000
PS2 Power Reliability & Surge Protection / S00312	16,345,232	8,000,000	21,030,000	45,375,232
PS 84 Upgrade & PS 62 Abandon / S00308	10,320,400	-	-	10,320,400
Pump Station 64,65, Penasquitos, E Mission Gorge / ABP00003	6,064,099	250,000	-	6,314,099
Pump Station Restorations / ABP00001	6,423,825	1,200,000	6,269,021	13,892,846
PURE Water Program / ALA00001	99,718,290	74,112,022	1,094,026,798	1,267,857,110
Reclaimed Water Extension / AHC00001	159,125	-	-	159,125
Reclaimed Water Retrofit / AHC00003	250,001	-	-	250,001
Recycled Water Systems Upgrades / AHC00004	1,887,422	388,967	-	2,276,389
Recycled Water Tank Modifications / S12014	1,400,000	-	-	1,400,000
SBWR Plant Demineralization / S00310	5,973,695	-	-	5,973,695
Sewer CIP Emergency Reserve / ABT00007	5,000,000	-	-	5,000,000
Sewer Main Replacements / AJA00001	215,557,848	47,058,301	130,539,373	393,155,522
South Metro Sewer Rehabilitation Ph 3B / S00317	157,506	-	9,057,451	9,214,957
Standpipe and Reservoir Rehabilitations / ABL00001	13,264,300	2,450,000	12,603,149	28,317,449
Tecolote Canyon Trunk Sewer Improvement / S15020	1,600,000	4,080,000	11,180,000	16,860,000
Tierrasanta (Via Dominique) Pump Station / S12040	8,158,000	6,495,996	-	14,653,996
University Ave Pipeline Replacement / S11021	21,698,593	4,301,407	-	26,000,000
University Heights Water Tower Seismic Retrofit / S17006	500,000	1,363,000	-	1,863,000
Unscheduled Projects / AJA00003	10,419,265	300,000	-	10,719,265
Upas St Pipeline Replacement / S11022	34,096,326	850,000	-	34,946,326
Water CIP Emergency Reserve / ABT00008	5,000,000	-	-	5,000,000
Water Department Security Upgrades / S00050	15,724,929	200,000	3,000,000	18,924,929
Water Main Replacements / AKB00003	223,960,806	46,202,093	200,875,593	471,038,492
Water Pump Station Restoration / ABJ00001	11,762,642	4,948,360	25,837,083	42,548,085



## Public Utilities

Project	Prior Fiscal Years	FY 2018 Adopted	Future Fiscal Years	Project Total
Water & Sewer Group Job 816 (W) / S13015	10,708,375	4,325,508	1,485,509	16,519,392
Water Treatment Plants / ABI00001	4,469,940	1,000,000	1,339,477	6,809,417
Wet Weather Storage Facility / S00314	2,491,626	-	4,780,501	7,272,127
<b>Total</b>	<b>\$ 1,181,048,166</b>	<b>\$ 370,717,958</b>	<b>\$ 1,993,282,357</b>	<b>\$ 3,545,048,481</b>



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## Public Utilities

### 30th Street Pipeline Replacement / S12010

### Water - Distribution Sys - Transmission

<b>Council District:</b>	3 8	<b>Priority Score:</b>	93
<b>Community Planning:</b>	Greater North Park; Greater Golden Hill; Southeastern San Diego	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Bose, Sheila
<b>Duration:</b>	2014 - 2020		619-533-4698
<b>Improvement Type:</b>	Replacement		sbose@sanidiego.gov

**Description:** This project will replace approximately 6 miles of existing cast iron (CI) mains from Polk Avenue to Commercial Street. Also, it will update the transmission and distribution system in the University Heights (390 Zone) to meet its current and future needs.

**Justification:** The pipeline has been paralleled by the newer 28th Street Pipeline south of Thorn Street and no longer serves as an important transmission route to University Heights (390 Zone). This project will replace the cast iron pipe, provide supply reliability to the south end of the 390 Zone, and improve water quality.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Greater North Park, Greater Golden Hill, and Southeastern San Diego Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2015 and is scheduled to be completed in Fiscal Year 2017. Construction is scheduled to begin in Fiscal Year 2018 and is anticipated to be completed in Fiscal Year 2020.

**Summary of Project Changes:** The total project cost increased by \$7.8 million due to revised requirements.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,155,957	\$ 765,229	\$ 8,000,000	\$ -	\$ 11,578,813	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,500,000
Total		\$ 2,155,957	\$ 765,229	\$ 8,000,000	\$ -	\$ 11,578,813	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,500,000

## Public Utilities

### 69th & Mohawk Pump Station / S12011

### Bldg - Water - Pump Stations

<b>Council District:</b>	4 9	<b>Priority Score:</b>	96
<b>Community Planning:</b>	College Area; Mid-City: Eastern Area	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2013 - 2020		619-533-6651
<b>Improvement Type:</b>	Expansion		dvanmartin@sandiego.gov

**Description:** This project will construct a new pump station at the corner of 69th Street and Mohawk Street. The new pump station will feed the 645 Redwood Village pressure Zone. Suction to the pump station will come from the Mid-City Pipeline Phase II which has a concurrent construction schedule.

**Justification:** This project will replace the existing 40 year old Montezuma Pump Station for Redwood Village which is reaching the end of its lifecycle.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with College Area and Mid City: Eastern Area Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2015 and will be completed in Fiscal Year 2017. Construction is scheduled to begin in Fiscal Year 2017 and is anticipated be completed in Fiscal Year 2019.

**Summary of Project Changes:** The total project cost increased by \$191,614 due to revised requirements.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 5,248,195	\$ 366,433	\$ 6,000,000	\$ -	\$ 6,863,985	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,478,614
<b>Total</b>		<b>\$ 5,248,195</b>	<b>\$ 366,433</b>	<b>\$ 6,000,000</b>	<b>\$ -</b>	<b>\$ 6,863,985</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 18,478,614</b>

## Public Utilities

### Advanced Metering Infrastructure / S17008

### Bldg - Other City Facility / Structures

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	59
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2017 - 2020		858-292-6425
<b>Improvement Type:</b>	Betterment		tphung@sandiego.gov

**Description:** This project will deploy Advanced Metering Infrastructure (AMI) technology to approximately 270,000 water meters citywide. This will allow meters to be read electronically rather than by direct visual inspection by field staff.

**Justification:** This project will streamline the collection of water meter information, provide near real time data, assist with promptly solving water usage and billing questions, and provide customers with a tool to conserve and manage their water consumption.

**Operating Budget Impact:** None

**Relationship to General and Community Plans:** This project is consistent with applicable community plans, is in conformance with the City's General Plan, and helps to implement the City's Climate Action Plan.

**Schedule:** Pre-installation work is underway. The installation schedule will be finalized upon the selection of the vendor/installer.

**Summary of Project Changes:** The total project cost increased by \$7.5 million in Fiscal Year 2018 due to revised requirements.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 6,420,825	\$ 12,766,969	\$ 13,705,722	\$ -	\$ 890,932	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,784,449
Water Utility - CIP Funding Source	700010	6,420,806	12,766,988	13,705,722	-	890,932	-	-	-	-	-	33,784,449
<b>Total</b>		<b>\$ 12,841,632</b>	<b>\$ 25,533,957</b>	<b>\$ 27,411,444</b>	<b>\$ -</b>	<b>\$ 1,781,864</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 67,568,898</b>

## Public Utilities

### Alvarado 2nd Extension Pipeline / S12013

### Water - Distribution Sys - Transmission

<b>Council District:</b>	2 3 7	<b>Priority Score:</b>	92
<b>Community Planning:</b>	Mission Valley; Mission Bay Park; Old San Diego	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Bose, Sheila
<b>Duration:</b>	2016 - 2023		619-533-4698
<b>Improvement Type:</b>	Expansion		sbose@saniego.gov

**Description:** The Alvarado 2nd Extension Pipeline Project is proposing to build a new 48-inch and a 30-inch main extending the existing Alvarado 2nd PL westerly connecting to the new 20-inch Pacific Beach Pipeline along West Mission Bay Dr (approx. 6.42 miles). A 536 to 390 HGL Pressure Reducing Station (PRS) will be built along the new 30-inch pipeline at the Friars Rd and Sea World Dr intersection. An existing 12-inch AC pipe just northwest of the West Mission Bay Dr Bridge within the Pacific Beach 307 Zone will be relocated along Sea World Dr, connecting to the new 20-inch Pacific Beach Pipeline along West Mission Bay Dr. This project also includes the replacement of all parallel 16-inch AC water mains. The AC mains run along Friars Rd. between Morena Blvd. and East of Mission Center Rd. (approx. 15,048 LF/2.85 miles). Total length of this project is approximately 9.27 miles.

**Justification:** This project was driven by the need to provide redundant transmission to the coastal zones of La Jolla and Pacific Beach for supply reliability. The proposed Alvarado 2nd Extension Pipeline will be the main feed to Pacific Beach Zones. With the new pipeline feeding from the Alvarado WTP, the San Diego County Water Authority (CWA) treated water intake at San Diego Connection #11 which currently feed those zones will greatly reduce. This will also provide supply flexibility between the Alvarado and Miramar WTP Service Areas.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Mission Valley, Linda Vista, and Mission Bay Park Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design is scheduled to begin in Fiscal Year 2017 and will be completed in Fiscal Year 2019. Construction is scheduled to begin in Fiscal Year 2020 and be completed in Fiscal Year 2022.

**Summary of Project Changes:** The total project cost increased by \$11.3 million due to revised requirements.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 300,349	\$ 1,403,636	\$ 2,500,000	\$ -	\$ 2,500,000	\$ 25,000,000	\$ 25,000,000	\$ 2,342,014	\$ -	\$ -	\$ 59,046,000
<b>Total</b>		<b>\$ 300,349</b>	<b>\$ 1,403,636</b>	<b>\$ 2,500,000</b>	<b>\$ -</b>	<b>\$ 2,500,000</b>	<b>\$ 25,000,000</b>	<b>\$ 25,000,000</b>	<b>\$ 2,342,014</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 59,046,000</b>

## Public Utilities

### Alvarado Trunk Sewer Phase IV / S15019

### Wastewater - Collection Sys - Trunk Swr

<b>Council District:</b>	7 9	<b>Priority Score:</b>	84
<b>Community Planning:</b>	Navajo; College Area	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Batta-Hajjawi, Nabil
<b>Duration:</b>	2015 - 2024		619-533-4145
<b>Improvement Type:</b>	Replacement		nbatta@saniego.gov

**Description:** This project will replace and upsize 3.12 miles of the Alvarado Trunk Sewer to provide additional capacity.

**Justification:** This trunk sewer will be upgraded with a larger pipe to improve capacity and condition.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Navajo and College Area Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2016. Construction is anticipated to begin in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2023.

**Summary of Project Changes:** The total project cost increased by \$7.1 million due to revised requirements.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 2,232,686	\$ 967,313	\$ 2,000,000	\$ -	\$ 250,000	\$ 3,000,000	\$ 7,000,000	\$ 13,446,000	\$ -	\$ -	\$ 28,896,000
Total		\$ 2,232,686	\$ 967,313	\$ 2,000,000	\$ -	\$ 250,000	\$ 3,000,000	\$ 7,000,000	\$ 13,446,000	\$ -	\$ -	\$ 28,896,000

## Public Utilities

### Backup Generators at SPS's, TP & EMTS / S12036

### Bldg - MWWWD - Pump Stations

<b>Council District:</b>	1 5 8	<b>Priority Score:</b>	N/A
<b>Community Planning:</b>	University; Miramar Ranch North; Barrio Logan; Torrey Pines	<b>Priority Category:</b>	N/A
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Dadachanji, Chisti
<b>Duration:</b>	2012 - 2018		858-654-4493
<b>Improvement Type:</b>	New		pdadachanji@saniego.gov

**Description:** This project will purchase seven generators and provide a design-build contract to install the generators and associated equipment for permanent power connection to existing sewer Pump Stations 1, 64, 65, Penasquitos, North City Reclamation Plant, and Environmental Monitoring Technical Services laboratory. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** This project is necessary to prevent environmental damage from sewer spills and prevention of permit violation issues when regional electrical black-outs occur.

**Operating Budget Impact:** None

**Relationship to General and Community Plans:** This project is consistent with the University, Miramar Ranch North, Barrio Logan, and Torrey Pines Community Plans and is in conformance with the City's General Plan.

**Schedule:** Engine procurement began in late Fiscal Year 2012 and was completed in Fiscal Year 2014. Design and construction began in Fiscal Year 2013 and were completed in Fiscal Year 2016.

**Summary of Project Changes:** The total project cost decreased by \$400,000 in Fiscal Year 2018 due to revised requirements. This project is complete and will be closed by the end of the fiscal year.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 6,712,606	\$ 23,615	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,736,222
Muni Sewer Utility - CIP Funding Source	700008	8,530,023	79,354	-	-	-	-	-	-	-	-	8,609,378
<b>Total</b>		<b>\$ 15,242,629</b>	<b>\$ 102,970</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 15,345,600</b>



**Public Utilities**

**Bayview Reservoir Solar Project / S14021**

**Bldg - Other City Facility / Structures**

<b>Council District:</b>	1	<b>Priority Score:</b>	90
<b>Community Planning:</b>	La Jolla	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Lewis, Nikki
<b>Duration:</b>	2015 - 2019		619-533-6653
<b>Improvement Type:</b>	Betterment		nlewis@sanidiego.gov

**Description:** This project includes the design, installation, and interconnection of approximately 300 kilowatts (kw) solar photovoltaic system on the deck of the Bayview Reservoir.

**Justification:** Project complies with the City's Solar Implementation Plan and will provide enough solar electricity to supply approximately 75-80% of the facility pump stations electricity when averaged over the year.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the La Jolla Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design and construction are scheduled to be awarded in Fiscal Year 2017 and be completed in Fiscal Year 2018.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2018.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Energy Conservation Program CIP Fund	200225	\$ 325,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 325,000
Water Utility - CIP Funding Source	700010	556,671	1,443,328	-	-	-	-	-	-	-	-	2,000,000
<b>Total</b>		<b>\$ 881,671</b>	<b>\$ 1,443,328</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,325,000</b>

## Public Utilities

### Catalina 12inch Cast Iron Mains / S12008

### Water - Distribution Sys - Transmission

<b>Council District:</b>	2	<b>Priority Score:</b>	98
<b>Community Planning:</b>	Peninsula	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Ninh, Michael
<b>Duration:</b>	2014 - 2018		619-533-7443
<b>Improvement Type:</b>	Replacement		mninh@sanidiego.gov

**Description:** This project will replace and install approximately 16,000 linear feet of existing cast iron (CI) pipeline (size varies) with PVC pipeline and cement mortar lined and coated steel pipeline (CMLCS) on Catalina Blvd. The scope of work includes but is not limited to replacing the Catalina Pump Station 16-inch CI discharge pipeline with a 16-inch CMLCS pipeline; installing a 24-inch CMLCS from the proposed 16-inch CMLCS pump station discharge pipeline to the proposed Catalina Standpipe inlet; installing a 16-inch PVC from Catalina Standpipe to DuPont Street; installing a 24-inch CMLCS pipeline from Catalina Standpipe to Garden Lane.

**Justification:** This project will replace cast iron pipe, provide supply reliability to the Catalina Pump Station service area, and improve water quality.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Peninsula Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2014 and was completed in Fiscal Year 2016. Construction began in Fiscal Year 2016 and is scheduled to be completed in Fiscal Year 2018.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$2.5 million.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
PFFA-Water Rev Bonds Series 2016A	700095	\$ 3,433	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,433
Water Utility - CIP Funding Source	700010	10,814,525	122,041	1,540,000	-	-	-	-	-	-	-	12,476,566
<b>Total</b>		<b>\$ 10,817,958</b>	<b>\$ 122,041</b>	<b>\$ 1,540,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 12,480,000</b>

**Public Utilities**

**Chollas Building / S11025**

**Bldg - Operations Facility / Structures**

<b>Council District:</b>	4	<b>Priority Score:</b>	65
<b>Community Planning:</b>	Mid-City: Eastern Area	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Lewis, Nikki
<b>Duration:</b>	2011 - 2020		619-533-6653
<b>Improvement Type:</b>	Replacement		nlewis@sanidiego.gov

**Description:** This project will construct two new buildings: one two-story building for administration staff and a one-story maintenance shop.

**Justification:** This project will allow for Water Operations Division to consolidate their staff in one central facility. The existing facility is not adequate for current needs.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the existing use as referenced in Mid-City Area Community Plan.

**Schedule:** Design and construction are scheduled to begin in Fiscal Year 2017 and are scheduled to be completed in Fiscal Year 2020.

**Summary of Project Changes:** The total project cost increased by \$15.3 million due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 10,991,722	\$ 357,802	\$ 17,006,500	\$ -	\$ 11,870,370	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,226,395
Water Utility Operating Fund	700011	250,474	-	-	-	-	-	-	-	-	-	250,474
<b>Total</b>		<b>\$ 11,242,197</b>	<b>\$ 357,802</b>	<b>\$ 17,006,500</b>	<b>\$ -</b>	<b>\$ 11,870,370</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 40,476,870</b>

## Public Utilities

### Cielo & Woodman Pump Station / S12012

### Bldg - Water - Pump Stations

<b>Council District:</b>	4	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Southeastern (Encanto Neighborhoods)	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2014 - 2021		619-533-6651
<b>Improvement Type:</b>	Expansion		dvanmartin@sandiego.gov

**Description:** This project provides for the replacement of the Cielo and Woodman Pump Station (PS) with a new PS with a total capacity of 15.84 million gallons per day (mgd) to improve efficiency and reliability. The Cielo and Woodman Pump Station works in conjunction with the Paradise Mesa Standpipe and three pressure regulating stations which are fed by San Diego County Water Authority connection SD#19. This project will be closely coordinated with the Otay 2nd Pipeline Phase 1 project.

**Justification:** This project will replace a deteriorating pump station facility and cast iron mains that lead to the station. According to year 2030 demands, the Otay Water Treatment Plant (WTP) will not be able to supply enough suction head to the pump station. Thus, the pump station would need to be supplied from the Alvarado Water Treatment Plant (WTP).

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Southeastern (Encanto Neighborhoods) Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2015 and will be completed in Fiscal Year 2017. Construction is scheduled to begin in Fiscal Year 2018 and is anticipated to be completed in Fiscal Year 2020.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$500,000.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,246,534	\$ 285,465	\$ 1,000,000	\$ -	\$ 2,500,000	\$ 1,646,000	\$ -	\$ -	\$ -	\$ -	\$ 6,678,000
<b>Total</b>		<b>\$ 1,246,534</b>	<b>\$ 285,465</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ 2,500,000</b>	<b>\$ 1,646,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,678,000</b>

Public Utilities

Corrosion Control / AKA00001

Water - Distribution Sys - Transmission

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2024		858-292-6425
Improvement Type:	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for renovating or replacing deteriorating corrosion control and monitoring systems throughout the City.

**Justification:** Deteriorating corrosion control and monitoring systems are in need of rehabilitation. This annual allocation provides for an ongoing program to rehabilitate over 600 existing corrosion protection stations.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2018.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 43,610	\$ 436,174	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	479,784
Total		\$ 43,610	\$ 436,174	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	479,784

## Public Utilities

### Del Mar Heights Pipeline Relocation / S00070

### Water - Distribution Sys - Distribution

<b>Council District:</b>	1	<b>Priority Score:</b>	N/A
<b>Community Planning:</b>	Del Mar Mesa; Pacific Highlands Ranch	<b>Priority Category:</b>	N/A
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Taleghani, Reza
<b>Duration:</b>	2005 - 2019		619-533-3673
<b>Improvement Type:</b>	Expansion		rtaleghani@sandiego.gov

**Description:** This project will provide for the relocation and upsizing of an existing 36-inch pipeline in the ultimate right-of-way for Carmel Valley Road. The existing Del Mar Heights Pipeline will no longer follow the alignment of Carmel Valley Road, once Carmel Valley Road is improved to four lanes.

**Justification:** Future maintenance of this facility is enhanced when it is in an accessible and convenient location such as a public street right-of-way. This project will relocate the pipeline so that it can be easily maintained, repaired, and serviced in the future.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Del Mar Mesa Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design was completed in Fiscal Year 2012. Phase 1 (Del Mar Heights Road from the West Community Plan boundary to Carmel Valley Road and includes the bridge by-pass) and Phase 2 (Carmel Valley Road to Mona Lane) construction is complete. Reimbursements to developer should be completed in Fiscal Year 2018.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2018.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Pacific Highlands Ranch FBA	400090	\$ 6,619,307	\$ 1,330,692	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,950,000
<b>Total</b>		<b>\$ 6,619,307</b>	<b>\$ 1,330,692</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,950,000</b>

**Public Utilities**

**El Monte Pipeline No 2 / S10008**

**Water - Distribution Sys - Distribution**

<b>Council District:</b>	7	<b>Priority Score:</b>	96
<b>Community Planning:</b>	Navajo	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Potenciano, Jerome
<b>Duration:</b>	2010 - 2021		858-654-4437
<b>Improvement Type:</b>	Replacement - Rehab		jpotenciano@sandiego.gov

**Description:** This project consists of the replacement of three pipe segments as well as the repair of the Grossmont tunnel liner as identified in the 2015 condition assessment report. This project also includes spot repair of pipe walls and joints for the pipeline.

**Justification:** The replacement and repairs are needed to mitigate the potential of a pipeline failure and reduce the amount of leakage currently being experienced. The project allows for more reliable operation of the pipeline and therefore facilitate water transports between the San Vicente and El Capitan Reservoir to Lake Murray and the Alvarado Water Treatment Plant.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Navajo Community Plan and is in conformance with the City's General Plan.

**Schedule:** Condition assessment began in Fiscal Year 2014 and was completed in Fiscal Year 2016. Design is scheduled to start in Fiscal Year 2018 and be completed in Fiscal Year 2019. Construction is scheduled to start in Fiscal Year 2020 and be completed in Fiscal Year 2021.

**Summary of Project Changes:** The project schedule has been updated for Fiscal Year 2018.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,640,578	\$ 306,442	\$ -	\$ -	\$ 8,300,000	\$ 6,673,010	\$ -	\$ -	\$ -	\$ -	\$ 17,920,030
Water Utility Operating Fund	700011	979	-	-	-	-	-	-	-	-	-	979
<b>Total</b>		<b>\$ 2,641,557</b>	<b>\$ 306,442</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 8,300,000</b>	<b>\$ 6,673,010</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 17,921,010</b>

**Public Utilities**

**EMTS Boat Dock and Steam Line Relocation / S00319**

**Bldg - MWWD - Laboratories**

<b>Council District:</b>	2	<b>Priority Score:</b>	81
<b>Community Planning:</b>	Peninsula	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Balo, Kelly
<b>Duration:</b>	2012 - 2020		858-292-6423
<b>Improvement Type:</b>	New		kbalo@sandiego.gov

**Description:** The Environmental Monitoring and Technical Services (EMTS) Laboratory Boat Dock provides for the design and construction of a boat dock located in the channel adjacent to the EMTS laboratory, as well as the installation of an esplanade. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** As part of a Public Benefit Conveyance (PBC) from the federal government, MWWD designed and constructed a 40,000 square foot ocean monitoring laboratory which is now in operation. The design of this project included a boat dock to service the laboratory. Public Utilities currently leases boat dock space at Driscoll's Wharf and this project would eliminate this ongoing expense.

**Operating Budget Impact:** Non-personnel expenditures for lease of boat dock space at Driscoll's Wharf will be decreased by \$14,040 when the project is complete.

**Relationship to General and Community Plans:** This project is consistent with the Peninsula Community Plan and is in conformance with the City's General Plan.

**Schedule:** The design was completed in Fiscal Year 2016 and construction is anticipated to begin in Fiscal Year 2018.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$1.5 million.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 95,592	\$ 422,942	\$ -	\$ -	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,018,535
<b>Total</b>		<b>\$ 95,592</b>	<b>\$ 422,942</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,018,535</b>



**Public Utilities**

**Freeway Relocation / AKB00002**

**Water - Distribution Sys - Distribution**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides funding to relocate water lines in conflict with the State Department of Transportation highway construction zones.

**Justification:** Waterline relocation is required by the State Department of Transportation's effort to expand the State Highway System. Relocation projects are accomplished in conjunction with highway projects scheduled by the State Department of Transportation.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects are scheduled on a priority basis per Caltrans requests.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 decreased by \$100,000 due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,401,844	\$ 687,930	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 2,489,774
<b>Total</b>		<b>\$ 1,401,844</b>	<b>\$ 687,930</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,489,774</b>

**Public Utilities**

**Groundwater Asset Development Program / ABM00001**

**Bldg - Water - Wells**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Adrian, George
<b>Duration:</b>	2010 - 2024		619-533-4680
<b>Improvement Type:</b>	Replacement		gadrian@sandiego.gov

**Description:** This annual allocation provides for investigation work related to legal, technical, regulatory, and water quality issues; and for the planning, design, and construction of groundwater facilities to increase the local water supply.

**Justification:** The City imports 90 percent of its water from the Colorado River and the State Water Project. The City has access to several under-utilized groundwater assets that could be developed to supply new yield, seasonal storage, or carryover storage.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is in compliance with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Research, exploration, and demonstration began in Fiscal Year 2001 and continued through Fiscal Year 2014. Design and construction of sub-projects identified in the research/exploration/demonstration phase began in Fiscal Year 2012 and will continue through Fiscal Year 2021 and beyond.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 decreased by \$545,831 due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 690,178	\$ 1,287,426	\$ 700,000	\$ -	\$ 1,585,559	\$ 106,849	\$ -	\$ -	\$ -	\$ -	\$ 4,370,013
<b>Total</b>		<b>\$ 690,178</b>	<b>\$ 1,287,426</b>	<b>\$ 700,000</b>	<b>\$ -</b>	<b>\$ 1,585,559</b>	<b>\$ 106,849</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,370,013</b>

## Public Utilities

### Harbor Dr TS Participation Agreement / RD16001

### Wastewater - Collection Sys - Trunk Swr

<b>Council District:</b>	3 8	<b>Priority Score:</b>	89
<b>Community Planning:</b>	Barrio Logan	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Wilson, Leonard
<b>Duration:</b>	2016 - 2020		619-446-5421
<b>Improvement Type:</b>	Expansion		llwilson@sandiego.gov

**Description:** Participation agreement with Ballpark Village LLC to upsize the existing 12-inch, 15-inch, 18-inch, and 24-inch Harbor Drive Trunk Sewer from 12th Avenue and Imperial Avenue to Sewer Pump Station #5 (Beardsley Street and Harbor Drive) with 18-inch, 21-inch and 30-inch diameter sewer mains for a total length of 4,650 lineal feet. The term of the agreement is four (4) years. The participation agreement outlines each segment of work, the City and Developer costs, and the schedule to begin and complete the work.

**Justification:** The Harbor Drive Trunk Sewer is constructed of Techite pipe, which is known nationwide as a high risk of catastrophic failure. The replacement of this trunk sewer will address the structural integrity of the existing sewer mains and provide additional capacity to accommodate the future flows.

**Operating Budget Impact:** None

**Relationship to General and Community Plans:** This project is consistent with the Barrio Logan Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in December 2015 and was completed in Fiscal Year 2017. Construction is scheduled to begin in Fiscal Year 2017 and is anticipated to be completed in Fiscal Year 2019.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$2.5 million.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 270,283	\$ 520,966	\$ 1,000,000	\$ -	\$ 11,631,582	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,422,832
<b>Total</b>		<b>\$ 270,283</b>	<b>\$ 520,966</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ 11,631,582</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 13,422,832</b>

**Public Utilities**

**Instrumentation and Control / AKB00007**

**Water - Distribution Sys - Distribution**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This Annual Allocation provides for replacement and upgrades of the existing Supervisory Control and Data Acquisition (SCADA) equipment for the water distribution system.

**Justification:** The existing control system is outdated and exceeded its life cycle. This replacement will improve and enhance the control system capabilities as well as update the system to the current technology.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is in compliance with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 decreased by \$500,000 due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ -	\$ 200,000	\$ -	\$ -	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ 2,200,000
<b>Total</b>		\$ -	\$ 200,000	\$ -	\$ -	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ 2,200,000

## Public Utilities

### La Jolla Scenic Drive 16inch Main / S12009

### Water - Distribution Sys - Transmission

<b>Council District:</b>	1	<b>Priority Score:</b>	82
<b>Community Planning:</b>	La Jolla	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Ninh, Michael
<b>Duration:</b>	2015 - 2019		619-533-7443
<b>Improvement Type:</b>	Expansion		mninh@sanidiego.gov

**Description:** This project provides for replacement of 6-inch, 8-inch, and 12-inch pipelines with 15,635 linear feet of 16-inch pipe from the Soledad Reservoir that travels south along La Jolla Scenic Drive South; continues onto La Jolla Rancho Road, La Jolla Mesa Drive, Muirlands Drive, and El Camino Del Teatro; rejoins Muirlands Drive and Nautilus Street; and terminates at Fairway Road and the Muirlands Pump Station (PS). It will connect the Muirlands PS to the south Soledad Muirlands (725 Zone) to provide backup supply to the 725 Zone, and to solve fire flow deficiency and maintain peak pressures.

**Justification:** The current distribution grid has insufficient capacity to meet fire flow requirements, and is a bottleneck that leads to two isolated portions of the 725 Zone. If either of the pump/reservoir tandems that feed the zone go out of service, feed from the other tandem could not effectively be moved across the zone.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the La Jolla Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2015 and is scheduled to be completed in Fiscal Year 2016. Construction is scheduled to begin in Fiscal Year 2016 and will be completed in Fiscal Year 2018.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2018.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 5,479,652	\$ 559,989	\$ 3,192,358	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,232,000
<b>Total</b>		<b>\$ 5,479,652</b>	<b>\$ 559,989</b>	<b>\$ 3,192,358</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 9,232,000</b>

**Public Utilities**

**La Jolla View Reservoir / S15027**

**Water - Distribution Sys - Distribution**

<b>Council District:</b>	1	<b>Priority Score:</b>	80
<b>Community Planning:</b>	La Jolla	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2011 - 2021		619-533-6651
<b>Improvement Type:</b>	Expansion		dvanmartin@sandiego.gov

**Description:** This project will provide for the construction of a new 3.11 MG prestressed concrete reservoir. Also, it will install 2,800 feet of 30-inch pipeline, and demolish the old La Jolla View Reservoir and the La Jolla Exchange Place Reservoir.

**Justification:** This project will replace the existing La Jolla View Reservoir which will improve water quality, set new reservoir to appropriate HGL, and improve fire flow capacity in the 610 Zone.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the La Jolla Community Plan and is in compliance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2013 and is scheduled to be completed in Fiscal Year 2018. Construction is scheduled to begin in Fiscal Year 2019 and be completed in Fiscal Year 2020.

**Summary of Project Changes:** Total project cost increased by \$8.5 million due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,114,016	\$ 370,983	\$ 440,000	\$ -	\$ 12,100,000	\$ 10,310,313	\$ -	\$ -	\$ -	\$ -	\$ 25,335,313
<b>Total</b>		<b>\$ 2,114,016</b>	<b>\$ 370,983</b>	<b>\$ 440,000</b>	<b>\$ -</b>	<b>\$ 12,100,000</b>	<b>\$ 10,310,313</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 25,335,313</b>

**Public Utilities**

**Large Diameter Water Transmission PPL / AKA00003**

**Water - Distribution Sys - Transmission**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation allows for the replacement of 16-inch and larger diameter water pipelines at various locations throughout the City.

**Justification:** This annual allocation provides for the replacement of large diameter pipelines that are in a deteriorated condition or have reached the end of their service life.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 increased by \$5.0 million due to revised requirements. Additionally, in Fiscal Year 2017, the City Council authorized the appropriation of \$1.6 million.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 11,327,530	\$ 4,744,826	\$ 16,343,400	\$ -	\$ 11,909,612	\$ 9,945,083	\$ 14,346,178	\$ 14,346,178	\$ -	\$ -	\$ 82,962,808
Total		\$ 11,327,530	\$ 4,744,826	\$ 16,343,400	\$ -	\$ 11,909,612	\$ 9,945,083	\$ 14,346,178	\$ 14,346,178	\$ -	\$ -	\$ 82,962,808

## Public Utilities

### Little McGonigle Ranch Road Pipeline / S00069

### Water - Distribution Sys - Transmission

<b>Council District:</b>	1	<b>Priority Score:</b>	70
<b>Community Planning:</b>	Del Mar Mesa; Pacific Highlands Ranch	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Wilson, Leonard
<b>Duration:</b>	2004 - 2021		619-446-5421
<b>Improvement Type:</b>	Expansion		llwilson@sandiego.gov

**Description:** This reimbursement project provides for the construction of approximately 15,800 linear feet of 30-inch diameter water transmission pipeline in Carmel Mountain Road and Little McGonigle Ranch Road within the Del Mar Mesa and Pacific Highlands Ranch communities to provide capacity for both Del Mar Mesa and Pacific Highlands Ranch. Project was divided in 5 Phases, Phase 1 (Carmel Valley Road within SR-56/Carmel Valley Road Interchange within Right-of-Way), Phase 2 (Carmel Valley Road from SR-56/Carmel Valley Road Interchange to Del Mar Heights Road), Phase 3 (Little McGonigle Ranch Road from interchange to Del Mar Mesa Road), Phase 4 (Little McGonigle Ranch Road from Del Mar Mesa Road to Devino Court) and Phase 5 (Carmel Mountain Road from Devino Court to Del Mar Mesa Community Boundary).

**Justification:** The pipeline is required to provide capacity in the water system to adequately supply the demand resulting from the build-out of the Del Mar Mesa and Pacific Highlands Ranch communities.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Del Mar Mesa and Pacific Highlands Ranch Community Plans and is in conformance with the City's General Plan.

**Schedule:** Phase 1 is complete. The design of Phase 3 is not scheduled at this time. The design of Phase 4 is complete. Construction of Phase 5 is complete. Phase 2 construction is scheduled to begin in Fiscal Year 2017.

**Summary of Project Changes:** The project schedule has been updated for Fiscal Year 2018. Total project cost increased by \$743,000 due to revised requirements. Reimbursements to developer will continue in Fiscal Year 2018.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Del Mar Mesa FBA	400089	\$ 756,999	\$ -	\$ -	\$ 743,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
Pacific Highlands Ranch FBA	400090	2,789,174	17,825	-	1,693,000	-	-	-	-	-	-	4,500,000
<b>Total</b>		<b>\$ 3,546,173</b>	<b>\$ 17,826</b>	<b>\$ -</b>	<b>\$ 2,436,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,000,000</b>



## Public Utilities

### Lower Otay Outlet Tower / S12018

### Bldg - Water - Reservoirs/Dams

<b>Council District:</b>	Non-City	<b>Priority Score:</b>	89
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Potenciano, Jerome
<b>Duration:</b>	2016 - 2021		858-654-4437
<b>Improvement Type:</b>	Betterment		jpotenciano@sandiego.gov

**Description:** This project provides for the upgrade/replacement of the Lower Otay Outlet Tower.

**Justification:** Seismic analysis concluded that the tower's concrete has an overstress in flexural tension. Both the tower and the tower foundation are in danger of failure.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is outside the City limits and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** Design is scheduled to begin in Fiscal Year 2018 and be completed in Fiscal Year 2019. Construction is scheduled to begin in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2021.

**Summary of Project Changes:** The project schedule was updated for Fiscal Year 2018.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 301,015	\$ 698,984	\$ -	\$ -	\$ 990,811	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,990,811
<b>Total</b>		<b>\$ 301,015</b>	<b>\$ 698,984</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 990,811</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,990,811</b>

## Public Utilities

### Lower Otay Reservoir Emer Outlet Improve / S00044

### Bldg - Water - Reservoirs/Dams

<b>Council District:</b>	8	<b>Priority Score:</b>	75
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2001 - 2017		858-292-6425
<b>Improvement Type:</b>	Betterment		tphung@sanidiego.gov

**Description:** This project provides for the installation of two sluice gates on the auxiliary spillway to improve drawdown capacity.

**Justification:** The State Department of Safety of Dams requires an emergency draw-down capability of 10 percent of reservoir capacity in 10 days. Lower Otay Reservoir (backed up by Savage Dam) requires 56 days for 10 percent drawdown in order to prevent a risk of dam failure.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is outside of the City limits and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2001 and will be completed in Fiscal Year 2016. Construction will begin in Fiscal Year 2016 and is anticipated to be completed in Fiscal Year 2017.

**Summary of Project Changes:** The total project cost decreased by \$1.9 million due to revised requirements. Additionally, in Fiscal Year 2017, the City Council authorized the deappropriation of \$1.9 million.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 403,219	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	403,219
Water Utility - CIP Funding Source	700010	398,032	135,382	-	-	-	-	-	-	-	-	533,414
Water Utility Operating Fund	700011	243,337	-	-	-	-	-	-	-	-	-	243,337
<b>Total</b>		<b>\$ 1,044,588</b>	<b>\$ 135,382</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>1,179,971</b>

**Public Utilities**

**MBC Biosolids Storage Silos / S00322**

**Bldg - MWWWD - Treatment Plants**

<b>Council District:</b>	6	<b>Priority Score:</b>	74
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Warranty	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2007 - 2018		619-533-5105
<b>Improvement Type:</b>	Expansion		bvitelle@sandiego.gov

**Description:** This project provides for two additional biosolid storage silos (numbers 9 and 10). Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** When a silo is out of service, silo storage capacity is frequently exceeded. In order to accommodate such events and to restore adequate silo capacity, it is essential to build two more storage silos.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is located on federal property and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2009 and was completed in Fiscal Year 2013. Construction began in Fiscal Year 2014 and was completed in Fiscal Year 2017.

**Summary of Project Changes:** This project is complete and will be closed by the end of the fiscal year.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 120,319	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	120,319
Metro Sewer Utility - CIP Funding Source	700009	7,640,621	28,148	-	-	-	-	-	-	-	-	7,668,769
Metropolitan Sewer Utility Fund	700001	758,748	-	-	-	-	-	-	-	-	-	758,748
<b>Total</b>		<b>\$ 8,519,689</b>	<b>\$ 28,148</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>8,547,838</b>

## Public Utilities

### MBC Dewatering Centrifuges Replacement / S00339

### Bldg - MWWWD - Treatment Plants

<b>Council District:</b>	6	<b>Priority Score:</b>	83
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2009 - 2019		619-533-5105
<b>Improvement Type:</b>	Expansion		bvitelle@sandiego.gov

**Description:** This project provides for the replacement of six of the eight existing dewatering centrifuges with six larger capacity units to better handle biosolid flows during maintenance of the centrifuges and its associated equipment and to handle larger future biosolid flows. The existing units are also near the end of their useful life. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** This project will increase the production capacity of the dewatering centrifuges to accommodate plant shutdowns for maintenance and construction, to accommodate future flows, and to address diverse types of constraining operational factors that limit current capacity. To achieve the required capacity, the existing dewatering centrifuge units must be replaced with larger units.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is located on federal property and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2014 and the installation of the six centrifuges will be completed by Fiscal Year 2019.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2018.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 934	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 934
Metro Sewer Utility - CIP Funding Source	700009	11,241,643	867,240	-	-	-	-	-	-	-	-	12,108,883
Metropolitan Sewer Utility Fund	700001	12,624	-	-	-	-	-	-	-	-	-	12,624
<b>Total</b>		<b>\$ 11,255,202</b>	<b>\$ 867,240</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 12,122,443</b>

**Public Utilities**

**MBC Equipment Upgrades / S17013**

**Bldg - MWWWD - Treatment Plants**

<b>Council District:</b>	6	<b>Priority Score:</b>	85
<b>Community Planning:</b>	Kearny Mesa	<b>Priority Category:</b>	High
<b>Project Status:</b>	New	<b>Contact Information:</b>	Barhoumi, Amer
<b>Duration:</b>	2017 - 2022		858-292-6364
<b>Improvement Type:</b>	Replacement		abarhoumi@sandiego.gov

**Description:** The Metropolitan Biosolids Center (MBC) is the City's regional solids processing facility that receives biosolids from the Point Loma Wastewater Treatment Plant and the North City Water Reclamation Plant. To ensure that the plant operates reliably and efficiently, equipment associated with anaerobic digestion and the sludge dewatering process must be replaced. This project entails the replacement of the following equipment: recirculation pumps, mixing pumps, axial mixing pumps, sludge feed pumps and polymer feed pumps.

**Justification:** To ensure that the plant operates reliably and efficiently, process equipment associated with anaerobic digestion and sludge dewatering must be replaced.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is in compliance with the applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Design began in June 2017 and is anticipated to be completed in August 2018. Construction is scheduled to begin in April 2019 and is anticipated to be completed in December 2021.

**Summary of Project Changes:** This is a newly published project for Fiscal Year 2018.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ -	\$ 700,000	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,100,000
<b>Total</b>		\$ -	\$ 700,000	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,100,000

## Public Utilities

### MBC Odor Control Facility Upgrades / S00323

### Bldg - MWWWD - Treatment Plants

<b>Council District:</b>	6	<b>Priority Score:</b>	83
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2007 - 2018		619-533-5105
<b>Improvement Type:</b>	Expansion		bvitelle@sandiego.gov

**Description:** This project provides for upgrading the odor control system fans and ducting to reduce system headlosses; and improve overall foul air collection efficiency at the various process areas. Access platforms will also be installed at monitoring instruments locations. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** Several areas at the Metro Biosolids Center (MBC) have been identified to cause significant odor problems due to foul air collection deficiencies because of insufficient fan capacity and high headlosses, including poorly located foul air collection registers. Installing access platforms at the monitoring instruments and air volume control dampers will provide safe and timely access for operation and maintenance needs.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is located on federal property and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2012 and was completed in Fiscal Year 2015. Construction began in Fiscal Year 2016 and is anticipated to be completed in Fiscal Year 2018.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2018.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 8,045	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,045
Metro Sewer Utility - CIP Funding Source	700009	7,367,551	283,092	-	-	-	-	-	-	-	-	7,650,644
Metropolitan Sewer Utility Fund	700001	56,922	-	-	-	-	-	-	-	-	-	56,922
<b>Total</b>		<b>\$ 7,432,519</b>	<b>\$ 283,092</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,715,612</b>

## Public Utilities

### Metro Treatment Plants / ABO00001

### Bldg - MWWWD - Treatment Plants

<b>Council District:</b>	2 6 7 8	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Peninsula; University; Tijuana River Valley	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for replacement or improvements of facilities at Metro Treatment Plants: Point Loma Wastewater Treatment Plant (PLWTP), North City Water Reclamation Plant (NCWRP), South Bay Water Reclamation Plant (SBWRP), and Metro Biosolids Center (MBC). Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** Various facilities require replacement due to increasing wastewater flows and to be compliant with current regulatory requirements. This annual allocation will be considered an enhancement to the facility and does not include operation and maintenance.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Peninsula, Tijuana River Valley, and University community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 increased by \$2.1 million due to revised requirements.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 8,365,116	\$ 924,765	\$ 2,450,000	\$ -	\$ 560,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,299,882
Metropolitan Sewer Utility Fund	700001	31,247	-	-	-	-	-	-	-	-	-	31,247
<b>Total</b>		<b>\$ 8,396,364</b>	<b>\$ 924,765</b>	<b>\$ 2,450,000</b>	<b>\$ -</b>	<b>\$ 560,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 12,331,130</b>

**Public Utilities**

**Metropolitan System Pump Stations / ABP00002**

**Bldg - MWWWD - Pump Stations**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for comprehensive upgrades, design modifications, and renovations or replacement of equipment such as pumps, valves, tanks, controls, odor control systems, etc. at Metropolitan System Pump Stations 1, 2, Otay River and Grove Avenue. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** These improvements will allow pump stations to run more efficiently and increase the reliability of the Metropolitan Wastewater System.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$200,000. Additionally, the annual project cost for Fiscal Year 2018 decreased by \$211,912 due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 871,254	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 871,254
Metro Sewer Utility - CIP Funding Source	700009	3,701,828	139,384	-	-	1,698,699	807,840	316,968	-	-	-	6,664,720
Metropolitan Sewer Utility Fund	700001	5,901,235	-	-	-	-	-	-	-	-	-	5,901,235
<b>Total</b>		<b>\$ 10,474,318</b>	<b>\$ 139,384</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,698,699</b>	<b>\$ 807,840</b>	<b>\$ 316,968</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 13,437,210</b>



## Public Utilities

### Metropolitan Waste Water Department Trunk Sewers / AJB00001

### Wastewater - Collection Sys - Trunk Swr

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for the replacement of trunk sewers at various locations, including canyons, within the City limits. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** This annual allocation provides for the upgrading of trunk sewers, to improve the level of service to residents of the City of San Diego, and to comply with regulatory agencies by reducing the possibility of sewer spills.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$1 million. Additionally, the annual project cost for Fiscal Year 2018 increased by \$3.6 million due to revised requirements.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 1,046,537	\$ 2,764,153	\$ 6,104,584	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,915,275
Metropolitan Sewer Utility Fund	700001	23,059	-	-	-	-	-	-	-	-	-	23,059
Muni Sewer Utility - CIP Funding Source	700008	1,312,061	1,179,730	1,733,000	-	4,608,810	631,596	1,634,689	-	-	-	11,099,887
<b>Total</b>		<b>\$ 2,381,658</b>	<b>\$ 3,943,884</b>	<b>\$ 7,837,584</b>	<b>\$ -</b>	<b>\$ 4,608,810</b>	<b>\$ 631,596</b>	<b>\$ 1,634,689</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 21,038,221</b>

## Public Utilities

### Miramar Clearwell Improvements / S11024

### Bldg - Water - Standpipes

<b>Council District:</b>	5	<b>Priority Score:</b>	100
<b>Community Planning:</b>	Scripps Miramar Ranch; Miramar Ranch North	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2011 - 2021		619-533-5105
<b>Improvement Type:</b>	Replacement		bvitelle@sandiego.gov

**Description:** This project will construct two new clearwells, associated piping, and facilities for a total storage capacity of 58.3 million gallons (MG), demolish Clearwells Nos. 1 and 2, and associated piping and facilities, construct a new Chlorine Contact Chamber with an adjoining lift station for the maximum plant capacity of 215 million gallons per day (mgd), construct a new Maintenance Building, new guard shack, and install one Megawatt (MW) Photo Voltaic System on the roof of Clearwell No. 2.

**Justification:** The existing clearwells were determined to have significant structural issues. The lift station will improve filter performance and increase hydraulic grade line to 712 feet.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Scripps Miramar Ranch Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2013 and was completed in Fiscal Year 2016. Construction began in Fiscal Year 2016 and is anticipated to be completed in Fiscal Year 2021.

**Summary of Project Changes:** The total project cost increased by \$5.6 million due to revised requirements. Additionally, in Fiscal Year 2017, the City Council authorized the appropriation of \$10.3 million.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 44,068,860	\$ 171,635	\$ 37,087,853	\$ -	\$ 29,080,100	\$ 9,915,800	\$ -	\$ -	\$ -	\$ -	\$ 120,324,248
Water Utility Operating Fund	700011	4,495	-	-	-	-	-	-	-	-	-	4,495
<b>Total</b>		<b>\$ 44,073,355</b>	<b>\$ 171,635</b>	<b>\$ 37,087,853</b>	<b>\$ -</b>	<b>\$ 29,080,100</b>	<b>\$ 9,915,800</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 120,328,744</b>

**Public Utilities**

**MOC Complex Solar Project / S14022**

**Bldg - Other City Facility / Structures**

<b>Council District:</b>	6	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Kearny Mesa	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Lewis, Nikki
<b>Duration:</b>	2015 - 2019		619-533-6653
<b>Improvement Type:</b>	Betterment		nlewis@sanidiego.gov

**Description:** This project includes the design, installation, and interconnection of approximately 500 kilowatts (kw) worth of solar photovoltaics at various locations throughout the Metropolitan Operations Complex (MOC) in Kearny Mesa.

**Justification:** Project complies with the City's Solar Implementation Plan and will provide solar electricity to offset energy used at the MOC Complex buildings when averaged over the year.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Kearny Mesa Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design and construction are scheduled to be awarded in Fiscal Year 2017 and to be completed in Fiscal Year 2018.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2018.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Energy Conservation Program CIP Fund	200225	\$ 975,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 975,000
Metro Sewer Utility - CIP Funding Source	700009	226,178	130,821	-	-	-	-	-	-	-	-	357,000
Muni Sewer Utility - CIP Funding Source	700008	549,290	317,709	-	-	-	-	-	-	-	-	867,000
Water Utility - CIP Funding Source	700010	301,571	174,428	-	-	-	-	-	-	-	-	476,000
<b>Total</b>		<b>\$ 2,052,040</b>	<b>\$ 622,959</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,675,000</b>

## Public Utilities

### Montezuma/Mid-City Pipeline Phase II / S11026

### Water - Distribution Sys - Distribution

<b>Council District:</b>	7 9	<b>Priority Score:</b>	98
<b>Community Planning:</b>	College Area; Mid-City; Eastern Area; Navajo	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2013 - 2021		619-533-5105
<b>Improvement Type:</b>	Expansion		bvitelle@sanidiego.gov

**Description:** This project will construct a new 66-inch pipeline from the Alvarado Water Treatment Plant Clearwells to the existing 48-inch Mid-City Pipeline, which crosses Highway 8. Approximate pipeline length is 5,685 linear feet.

**Justification:** This project will give complete redundancy to the Trojan Pipeline and will add transmission capacity to all of San Diego, south of Highway 8. The project will provide a back-up supply for the aging 54-inch Trojan Pipeline that currently supplies the Mid-City Pipeline west of the 63rd Street inter-tie, a second supply line to the largest region of the Alvarado Water Treatment Plant service area, and a back-up service that will allow the Trojan Pipeline to be removed from service for inspection. In addition, the project provides connections for a new 69th and Mohawk Pump Station to become the lead supply to the Redwood Village (645 Zone).

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the College Area, Navajo, and Eastern Area Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2013 and was completed in Fiscal Year 2016. Easement acquisition is scheduled in Fiscal Year 2017 through Fiscal Year 2018. Construction is scheduled to begin in Fiscal Year 2018 and be completed in Fiscal Year 2021.

**Summary of Project Changes:** The project schedule has been updated for Fiscal Year 2018.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,518,703	\$ 5,284,384	\$ -	\$ -	\$ 16,000,000	\$ 7,536,800	\$ -	\$ -	\$ -	\$ -	\$ 31,339,888
Water Utility Operating Fund	700011	215,111	-	-	-	-	-	-	-	-	-	215,111
<b>Total</b>		<b>\$ 2,733,815</b>	<b>\$ 5,284,384</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 16,000,000</b>	<b>\$ 7,536,800</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 31,555,000</b>

## Public Utilities

### Morena Pipeline / S16027

### Water - Distribution Sys - Transmission

<b>Council District:</b>	2 6 7	<b>Priority Score:</b>	92
<b>Community Planning:</b>	Linda Vista; Clairemont Mesa; Mission Valley	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Gamboa, Wendy
<b>Duration:</b>	2016 - 2021		858-614-4524
<b>Improvement Type:</b>	Expansion		wgamboa@sandiego.gov

**Description:** This project will replace 19,765 feet of existing cast iron and asbestos cement 16-inch pipeline with 16-inch PVC and install 18,247 feet of new 36-inch steel pipeline (CML & C) along Morena Blvd from Friars Road to Balboa Avenue. Total length of this project is 38,012 feet.

**Justification:** This project was driven by the need to provide redundant transmission capacity to the coastal regions of Pacific Beach and La Jolla. This pipeline will also allow the beach areas to be fed by the Alvarado Water Treatment Plant which helps maximize local water resources.

**Operating Budget Impact:** None

**Relationship to General and Community Plans:** This project is consistent with Linda Vista, Mission Valley, and Clairemont Mesa community plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2016 and will be completed in Fiscal Year 2018. Construction is scheduled to begin in Fiscal Year 2019 and be completed in Fiscal Year 2021.

**Summary of Project Changes:** The total project cost increased by \$8.8 million due to revised requirements. Additionally, in Fiscal Year 2017, the City Council authorized the transfer of \$1.1 million from Water Main Replacements AKB00003 (R-310735) to this project.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,394,291	\$ 401,722	\$ 3,202,101	\$ -	\$ 10,000,000	\$ 10,000,000	\$ 8,686,638	\$ -	\$ -	\$ -	\$ 34,684,753
<b>Total</b>		<b>\$ 2,394,291</b>	<b>\$ 401,722</b>	<b>\$ 3,202,101</b>	<b>\$ -</b>	<b>\$ 10,000,000</b>	<b>\$ 10,000,000</b>	<b>\$ 8,686,638</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 34,684,753</b>

## Public Utilities

### Morena Reservoir Outlet Tower Upgrade / S00041

### Bldg - Water - Reservoirs/Dams

<b>Council District:</b>	Non-City	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2001 - 2021		619-533-6651
<b>Improvement Type:</b>	Betterment		dvanmartin@sandiego.gov

**Description:** This project replaces the existing outlet tower to meet seismic requirements. It will add a 120-foot long, 6-foot wide pedestrian bridge from the dam to the new outlet tower, enlarge the existing outlet tunnel, and raise the dam crest.

**Justification:** The aging outlet tower components are in need of replacement for safety and ease of operation. Furthermore, the electrical system needs to be upgraded to meet current standards, provide better control, and provide safety and better accessibility. The tower is 100 years old and seismically inadequate. This project is required by the California Division of Safety of Dams (DSOS).

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is outside of the City limits and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** Design phase began in Fiscal Year 2012. Construction is scheduled to begin in Fiscal Year 2017 and is anticipated to be completed in Fiscal Year 2020.

**Summary of Project Changes:** The total project cost increased by \$1.5 million due to revised requirements. Additionally, in Fiscal Year 2017, the City Council authorized the deappropriation of \$3.0 million. The project schedule has been updated for Fiscal Year 2018.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 322,485	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 322,485
Water Utility - CIP Funding Source	700010	1,663,166	1,979,671	-	-	13,520,000	3,000,000	-	-	-	-	20,162,838
Water Utility Operating Fund	700011	14,676	-	-	-	-	-	-	-	-	-	14,676
<b>Total</b>		<b>\$ 2,000,328</b>	<b>\$ 1,979,671</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 13,520,000</b>	<b>\$ 3,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 20,500,000</b>

**Public Utilities**

**NCWRP Improvements to 30 MGD / S17012**

**Bldg - MWWWD - Treatment Plants**

<b>Council District:</b>	1	<b>Priority Score:</b>	85
<b>Community Planning:</b>	University	<b>Priority Category:</b>	High
<b>Project Status:</b>	New	<b>Contact Information:</b>	Barhoumi, Amer
<b>Duration:</b>	2017 - 2022		858-292-6364
<b>Improvement Type:</b>	Replacement		abarhoumi@sandiego.gov

**Description:** The North City Water Reclamation Plant (NCWRP) treats wastewater from several San Diego communities and distributes recycled water for irrigation and industrial purposes throughout the surrounding areas. The condition and hydraulic capacity of the existing equipment at the NCWRP has been assessed through the review and examination of the plant design drawings, operation and assessment. It was determined that improvements to the process equipment are needed in order to ensure the facility is capable of operating reliability at its design capacity of 30 MGD.

**Justification:** This project entails improvements to the process equipment at the NCWRP in order to ensure the facility is capable of operating reliably at its design capacity of 30 MGD.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is in compliance with the applicable community plans and is in conformance with the City's General plan.

**Schedule:** Design began in November 2016 and is scheduled to be completed in June 2018. Construction is scheduled to begin in February 2019 and is anticipated to be completed in December 2021.

**Summary of Project Changes:** This is a newly published project for Fiscal Year 2018.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 297,029	\$ 2,970	\$ 1,400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,700,000
<b>Total</b>		<b>\$ 297,029</b>	<b>\$ 2,970</b>	<b>\$ 1,400,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,700,000</b>

## Public Utilities

### NCWRP Sludge Pump Station Upgrade / S00309

### Bldg - MWWWD - Pump Stations

<b>Council District:</b>	1 6	<b>Priority Score:</b>	82
<b>Community Planning:</b>	University	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Warranty	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2006 - 2018		619-533-6651
<b>Improvement Type:</b>	Replacement		dvanmartin@sandiego.gov

**Description:** This project provides for the replacement of 14 combination air release valves. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** There is a high risk of pipeline surge break with the existing clogging air vacuum valves.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the University Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2009 and was completed in Fiscal Year 2015. Construction began and was completed in Fiscal Year 2017.

**Summary of Project Changes:** This project is complete and will be closed by the end of the year.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 438	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 438
Metro Sewer Utility - CIP Funding Source	700009	724,933	45,702	-	-	-	-	-	-	-	-	770,635
Metropolitan Sewer Utility Fund	700001	136,022	-	-	-	-	-	-	-	-	-	136,022
<b>Total</b>		<b>\$ 861,393</b>	<b>\$ 45,702</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 907,096</b>



## Public Utilities

### New 16" Water Mains (U-3) / RD15003

### Water - Distribution Sys - Distribution

<b>Council District:</b>	1	<b>Priority Score:</b>	N/A
<b>Community Planning:</b>	Torrey Highlands	<b>Priority Category:</b>	N/A
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Crane, Bill
<b>Duration:</b>	2015 - 2018		619-533-3685
<b>Improvement Type:</b>	Expansion		wcrane@sanidiego.gov

**Description:** This project provides for reimbursement to a developer for the construction of approximately 16,636 linear feet of 16-inch diameter water mains within the Camino Del Sur (Watson Ranch Road to Dormouse) and along Carmel Mountain Road from Camino Del Sur to Sundance Avenue. This is Project U-3 in the Torrey Highlands Public Facilities Financing Plan.

**Justification:** This project is required to provide primary distribution facilities to serve the community.

**Operating Budget Impact:** The operations and maintenance funding for this project will be included in the Public Utilities budget.

**Relationship to General and Community Plans:** This project is consistent with the Del Mar Mesa and Pacific Highlands Ranch Community Plans and is in conformance with the City's General Plan.

**Schedule:** A portion of waterline from Watson Ranch Road to SR-56 has been completed by the developer. The remaining portion South to Dormouse will be completed by the developer as part of a future reimbursement agreement approved in Fiscal Year 2016.

**Summary of Project Changes:** The project schedule has been updated for Fiscal Year 2018.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Torrey Highlands	400094	\$ 396,031	\$ 828,968	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,225,000
Total		\$ 396,031	\$ 828,968	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,225,000

Public Utilities

North City Reclamation System / AHC00002

Reclaimed Water System - Pipelines

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Expansion		tphung@sandiego.gov

**Description:** This annual allocation provides recycled water to the Northern Service Area extending from Black Mountain Road west, along the I-56 corridor, to Carmel Valley. Portions of the recycled water pipeline expansion have been completed and are bringing service to the Olivenhain Municipal Water District and the communities of Black Mountain Ranch and Santa Luz. Recycled water pipeline is planned in Sorrento Mesa. Projects under this annual allocation are eligible for reimbursement by State Proposition 50 (Integrated Regional Water Management Plan) and Bureau of Reclamation Title 16 Grant funds.

**Justification:** Segments of recycled water pipelines have been constructed by private developers or Caltrans. The City needs to construct the remaining portions to complete the system and start delivering recycled water. The City also needs to expand the distribution system to customers already retrofitted to use recycled water.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects are scheduled on a priority basis.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$400,000.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,666,132	\$ 147,159	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,813,291
Total		\$ 2,666,132	\$ 147,159	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,813,291

## Public Utilities

### Otay 1st/2nd PPL Abandon E of Highland / S11027

### Water - Distribution Sys - Transmission

<b>Council District:</b>	4 9	<b>Priority Score:</b>	77
<b>Community Planning:</b>	Mid-City: Eastern Area; Mid-City: City Heights	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2011 - 2018		619-533-5105
<b>Improvement Type:</b>	Replacement		bvitelle@sanidiego.gov

**Description:** This project will abandon approximately 13,630 feet of aged 30-inch and 36-inch pipes, identified as Otay 1st and 2nd water transmission pipelines. These pipelines sections will be abandoned from Highland Avenue and Wightman Street east to 54th Street. This project will also install approximately 8,120 feet of new 16-inch distribution mains from a 12-inch line at University Avenue and Winona Avenue to 54th Street and Chollas Station Road.

**Justification:** This project will abandon approximately 13,630 feet of existing Cast Iron Cement Lined, Reinforced Concrete Steel Cylinder and Cement Mortar Lined Coated Steel pipes in accordance with California Department of Public Health's compliance order 04-14-96CO-022. These pipelines, constructed as early as 1915, have reached the end of their lifecycle and have become a liability to the City. In order to provide system redundancy and maintain distribution needs, approximately 8,120 feet of new 16-inch distribution mains will be installed.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Mid-City: City Heights and Eastern Area Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2012 and was completed in Fiscal Year 2014. Construction began in Fiscal Year 2014 and is anticipated to be completed in Fiscal Year 2017.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2018.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 6,681,095	\$ 107,810	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,788,906
Water Utility Operating Fund	700011	44,483	-	-	-	-	-	-	-	-	-	44,483
<b>Total</b>		<b>\$ 6,725,579</b>	<b>\$ 107,810</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,833,390</b>

## Public Utilities

### Otay 1st/2nd PPL West of Highland Avenue / S12016

### Water - Distribution Sys - Transmission

<b>Council District:</b>	3 9	<b>Priority Score:</b>	91
<b>Community Planning:</b>	Mid-City: City Heights; Greater North Park	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2012 - 2022		619-533-5105
<b>Improvement Type:</b>	Replacement		bvitelle@sandiego.gov

**Description:** This project provides for replacement of the Otay 1st and 2nd Pipeline (west of Highland Avenue, along the existing Otay 2nd alignment). It will replace 14,572 linear feet of existing cast iron Otay 2nd Pipeline with a new 42-inch Wightman Street Pipeline, primarily along existing Otay 2nd alignment from Highland Avenue and Polk Avenue to the University Heights Reservoir at Howard Avenue and Idaho Street. The reach on Highland Avenue includes replacement of 1,328 linear feet of the existing cast iron Otay 1st Pipeline. It will also replace 3,242 linear feet of the cast iron Otay 1st Pipeline from Boundary and Polk to the University Heights Reservoir with a 16-inch distribution line. The project also includes some pipeline abandonment and replacement at the University Heights Reservoirs. In addition, a pressure regulating station will be relocated out of the street right-of-way (ROW). The project alignment is located mostly within the City of San Diego ROW. There are also three Caltrans freeway crossings at I-805.

**Justification:** This project will develop a replacement and/or abandonment plan to remove the existing cast iron segments of pipeline west of Highland Avenue. Cast iron reaches of the Otay 1st and 2nd Pipelines are neither safe nor reliable facilities, and may contribute to poor water quality.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the City Heights and Greater North Park Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2016 and is anticipated to be completed in Fiscal Year 2019. Construction is scheduled to begin in Fiscal Year 2019 and is anticipated to be completed in Fiscal Year 2021.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$350,000.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,032,415	\$ 130,635	\$ 1,950,000	\$ -	\$ 9,700,000	\$ 10,000,000	\$ 5,627,449	\$ -	\$ -	\$ -	\$ 29,440,500
Total		\$ 2,032,415	\$ 130,635	\$ 1,950,000	\$ -	\$ 9,700,000	\$ 10,000,000	\$ 5,627,449	\$ -	\$ -	\$ -	\$ 29,440,500

**Public Utilities**

**Otay Second Pipeline Relocation-PA / S15016**

**Water - Distribution Sys - Transmission**

<b>Council District:</b>	Non-City	<b>Priority Score:</b>	98
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Wilson, Leonard
<b>Duration:</b>	2015 - 2025		619-446-5421
<b>Improvement Type:</b>	Replacement		llwilson@sandiego.gov

**Description:** This project will relocate 7.82 miles of potable water transmission pipelines from Otay Water Treatment to Olympic Parkway.

**Justification:** As the Otay Ranch Community develops, the existing Otay 2nd Pipeline, Otay 3rd Pipeline, South San Diego Pipeline No. 1, and South San Diego Pipeline No. 2 will be relocated to the new City of Chula Vista's public rights-of-way.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is outside the City limits and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** Design of Phase 1 began in Fiscal Year 2015 and construction of Phase 1 will begin in Fiscal Year 2017. Subsequent design and construction phases will continue through calendar year 2025.

**Summary of Project Changes:** Total project cost increased by \$2.5 million due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,584,411	\$ 49,680	\$ 200,000	\$ -	\$ 11,496,084	\$ 9,508,247	\$ 710,555	\$ 729,472	\$ 3,814,774	\$ -	\$ 28,093,224
<b>Total</b>		<b>\$ 1,584,411</b>	<b>\$ 49,680</b>	<b>\$ 200,000</b>	<b>\$ -</b>	<b>\$ 11,496,084</b>	<b>\$ 9,508,247</b>	<b>\$ 710,555</b>	<b>\$ 729,472</b>	<b>\$ 3,814,774</b>	<b>\$ -</b>	<b>\$ 28,093,224</b>

**Public Utilities**

**Otay WTP Concrete Work / S11059**

**Bldg - Water - Treatment Plants**

<b>Council District:</b>	Non-City	<b>Priority Score:</b>	N/A
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	N/A
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2011 - 2018		619-533-5105
<b>Improvement Type:</b>	Betterment		bvitelle@sandiego.gov

**Description:** This project includes the surface preparation, resurfacing, and the application of protective coating for basins one and two at the Otay Water Treatment Plant (WTP). Coating includes concrete floors, walls, columns, valves, piping, metal supports, and moving bridges.

**Justification:** The existing coating of the two basins is over 15 years old, it is in poor condition and needs to be replaced. The new protective coating applications will prevent concrete corrosion and ensure continual operation of the treatment plant.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is outside of the City limits and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** The design and construction for the Otay WTP concrete work began in Fiscal Year 2013 and are anticipated to be completed in Fiscal Year 2018.

**Summary of Project Changes:** Total project cost increased by \$1.8 million due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,741,824	\$ 1,801,370	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,543,194
Water Utility Operating Fund	700011	8,111	-	-	-	-	-	-	-	-	-	8,111
<b>Total</b>		<b>\$ 2,749,935</b>	<b>\$ 1,801,370</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,551,305</b>

## Public Utilities

### Pacific Beach Pipeline South (W) / S12015

### Water - Distribution Sys - Transmission

<b>Council District:</b>	2	<b>Priority Score:</b>	92
<b>Community Planning:</b>	Pacific Beach; Midway - Pacific Highway; Mission Beach; Peninsula	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Batta-Hajjawi, Nabil
<b>Duration:</b>	2012 - 2022		619-533-4145
<b>Improvement Type:</b>	Expansion		nbatta@sanidiego.gov

**Description:** Replacement of approximately 7.8 miles of existing transmission and distribution mains known as Pacific Beach Pipeline along Ingraham Street, West Mission Bay Drive, Sports Arena Boulevard, Midway Drive, Enterprise Street, Pacific Highway, Kurtz Street, Hancock Street, California Street, West Walnut Avenue, Vine Street, and Kettner Boulevard from the Buena Vista Street and Ingraham Street intersection through the Upas and Kettner Boulevard intersection. The project also includes demolition of the existing Pacific Beach Reservoir, abandonment of existing 16-inch pipeline from this reservoir through Tourmaline Street and Foothill Boulevard, and replacement of adjacent water mains along West Mission Bay Drive from Mission Boulevard through Ingraham Street, along Hancock Street from Estudillo Street through Noell Street, along West Washington Street from Hancock Street through Pacific Highway, and along Anna Avenue from Pacific Highway to Lovelock Street.

**Justification:** This project is needed to provide water supply reliability to Pacific Beach by replacing a 73 year old deteriorating cast iron pipe; thereby, increasing capacity and allowing for increased operational flexibility.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Midway-Pacific Highway, Mission Beach, Peninsula and Pacific Beach Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2014 and was completed in Fiscal Year 2016. Construction began in Fiscal Year 2016 and be completed in Fiscal Year 2021.

**Summary of Project Changes:** The total project cost increased by \$269,500 due to revised requirements. Additionally, in Fiscal Year 2017, the City Council authorized the appropriation of \$4.3 million.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 13,627,106	\$ -17,246	\$ 9,271,723	\$ -	\$ 10,491,262	\$ 5,737,598	\$ -	\$ -	\$ -	\$ -	\$ 39,110,443
<b>Total</b>		<b>\$ 13,627,106</b>	<b>\$ -17,246</b>	<b>\$ 9,271,723</b>	<b>\$ -</b>	<b>\$ 10,491,262</b>	<b>\$ 5,737,598</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 39,110,443</b>

**Public Utilities**

**Pipeline Rehabilitation / AJA00002**

**Wastewater - Collection Sys - Main**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for the rehabilitation and repair of deteriorated sewers and manholes at various locations within the Municipal Wastewater System.

**Justification:** This annual allocation provides for the extension of the useful life of sewers and manholes, improvements in the level of service to the residents of San Diego, and compliance with regulatory agencies' standards by reducing the possibility of sewer spills.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$5.0 million. Additionally, the annual project cost for Fiscal Year 2018 decreased \$1.6 million due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 101,580,391	\$ 16,789,508	\$ 11,759,341	\$ -	\$ 17,084,800	\$ 15,000,000	\$ 15,000,000	\$ 15,000,000	\$ -	\$ -	\$ 192,214,040
Municipal Sewer Revenue Fund	700000	169,507	-	-	-	-	-	-	-	-	-	169,507
<b>Total</b>		<b>\$ 101,749,898</b>	<b>\$ 16,789,508</b>	<b>\$ 11,759,341</b>	<b>\$ -</b>	<b>\$ 17,084,800</b>	<b>\$ 15,000,000</b>	<b>\$ 15,000,000</b>	<b>\$ 15,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 192,383,548</b>



## Public Utilities

### Point Loma Grit Processing Improvements / S00315

### Bldg - MWWWD - Treatment Plants

<b>Council District:</b>	2	<b>Priority Score:</b>	N/A
<b>Community Planning:</b>	Peninsula	<b>Priority Category:</b>	N/A
<b>Project Status:</b>	Warranty	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2001 - 2018		619-533-5105
<b>Improvement Type:</b>	Replacement		bvitelle@sanidiego.gov

**Description:** This project provides for upgrading the existing grit removal process at the Point Loma Wastewater Treatment Plant which includes new grit agitation blowers enclosed in a sound dampening facility and the associated air piping. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** The Point Loma Wastewater Treatment Plant has six aerated grit removal tanks. The plant is not achieving desirable grit removal because the existing grit processing equipment is unable to extract fine sand or silt. The grit accumulated downstream of the grit tanks reduces the efficiency of processing equipment and minimizes the biosolid treatment in the digesters.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Peninsula Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2001 and was completed in Fiscal Year 2012. Construction began in Fiscal Year 2012 and was completed in Fiscal Year 2017.

**Summary of Project Changes:** This project is complete and will be closed by the end of the fiscal year.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 4,727,066	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,727,066
Metro Sewer Utility - CIP Funding Source	700009	29,927,145	549,674	-	-	-	-	-	-	-	-	30,476,820
Metropolitan Sewer Utility Fund	700001	1,891,149	-	-	-	-	-	-	-	-	-	1,891,149
<b>Total</b>		<b>\$ 36,545,362</b>	<b>\$ 549,674</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 37,095,037</b>

Public Utilities

Pressure Reduction Facility Upgrades / AKA00002

Water - Distribution Sys - Transmission

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2024		858-292-6425
Improvement Type:	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for replacing existing pressure reducing stations or expanding pressure capacities to meet present and future water demands.

**Justification:** Increasing demands for water throughout the City requires pressure reducing stations to better control water pressure throughout the City's system. This annual allocation will continue to fund the replacement and expansion of pressure reduction facilities.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 increased by \$500,000 due to revised requirements.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 72,068	\$ 277,931	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 850,000
Total		\$ 72,068	\$ 277,931	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 850,000

**Public Utilities**

**PS 84 Upgrade & PS 62 Abandon / S00308**

**Bldg - MWWWD - Pump Stations**

<b>Council District:</b>	5	<b>Priority Score:</b>	86
<b>Community Planning:</b>	Rancho Bernardo; Rancho Penasquitos	<b>Priority Category:</b>	High
<b>Project Status:</b>	Warranty	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2007 - 2018		619-533-6651
<b>Improvement Type:</b>	Replacement		dvanmartin@sandiego.gov

**Description:** This project provides for the elimination of Sewer Pump Station 62 through the installation of various pipelines and the upsizing of the existing Sewer Pump Station 84.

**Justification:** This project is needed to optimize the sewage system and to eliminate Sewer Pump Station 62.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Rancho Bernardo and Rancho Penasquitos Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2010 and was completed in Fiscal Year 2012.

Construction began in Fiscal Year 2013 and was completed in Fiscal Year 2017.

**Summary of Project Changes:** This project is complete and will be closed by the end of the year.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 3,939	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,939
Muni Sewer Utility - CIP Funding Source	700008	9,037,240	274,314	-	-	-	-	-	-	-	-	9,311,554
Municipal Sewer Revenue Fund	700000	1,004,906	-	-	-	-	-	-	-	-	-	1,004,906
<b>Total</b>		<b>\$ 10,046,085</b>	<b>\$ 274,314</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 10,320,400</b>

## Public Utilities

### PS2 Power Reliability & Surge Protection / S00312

### Bldg - MWWWD - Pump Stations

<b>Council District:</b>	2	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Peninsula	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2005 - 2023		619-533-6651
<b>Improvement Type:</b>	Expansion		dvanmartin@sandiego.gov

**Description:** This project will improve the reliability of Pump Station 2. It will also provide the required surge protection and backup power against an electrical outage in compliance with the Environmental Protection Agency (EPA) recommendation of standby power for essential facilities. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** Sewer Pump Station 2 currently has three feeds from San Diego Gas and Electric (SDG&E). Two of the feeds are fed from the same substation. Neither of the two SDG&E substations provide 100% power to Pump Station 2. EPA guidelines recommend that facilities like Pump Station 2 be equipped with two separate and independent sources of electrical power provided from either two separate utility substations or from a single substation and a plant base generator. The current pump station electrical configuration does not comply with the EPA recommendations. Besides satisfying the EPA guidelines, it is also required that force main surge protection be provided at all times during pump station operation and in the event of a total power failure.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Peninsula Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2013 and was completed in Fiscal Year 2017. Construction began in Fiscal Year 2017 and is scheduled to be completed in Fiscal Year 2021.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the appropriation of \$975,232. Additionally, the total project cost increased by \$2.4 million in Fiscal Year 2018 due to revised requirements.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 14,433,315	\$ 1,847,749	\$ 8,000,000	\$ -	\$ 12,000,000	\$ 8,500,000	\$ 530,000	\$ -	\$ -	\$ -	\$ 45,311,065
Metropolitan Sewer Utility Fund	700001	64,166	-	-	-	-	-	-	-	-	-	64,166
<b>Total</b>		<b>\$ 14,497,482</b>	<b>\$ 1,847,749</b>	<b>\$ 8,000,000</b>	<b>\$ -</b>	<b>\$ 12,000,000</b>	<b>\$ 8,500,000</b>	<b>\$ 530,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 45,375,232</b>

## Public Utilities

### Pump Station 64,65, Penasquitos, E Mission Gorge / ABP00003

### Bldg - MWWWD - Pump Stations

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for the comprehensive upgrades, design modifications, and renovations or replacement of equipment, such as pumps, valves, tanks, controls, and odor control systems at the pump stations.

**Justification:** These improvements will allow the pump stations to run efficiently and increase the reliability of the Municipal Wastewater System.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 increased \$250,000 due to revised requirements.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 13,508	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	13,508
Muni Sewer Utility - CIP Funding Source	700008	5,511,369	80,821	250,000	-	-	-	-	-	-	-	5,842,190
Municipal Sewer Revenue Fund	700000	458,400	-	-	-	-	-	-	-	-	-	458,400
<b>Total</b>		<b>\$ 5,983,278</b>	<b>\$ 80,821</b>	<b>\$ 250,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>6,314,099</b>

**Public Utilities**

**Pump Station Restorations / ABP00001**

**Bldg - MWWd - Pump Stations**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for the replacement of deteriorated municipal pumping equipment and/or pipeline appurtenances.

**Justification:** Many existing sewer pump stations have reached or exceeded their anticipated service life. However, because of the widely varying actual lengths of service life, the scheduling of pump station restorations is difficult. This project allows flexibility in replacing deteriorated pumping equipment.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This annual allocation is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$900,000. Additionally, the annual project cost for Fiscal Year 2018 increased by \$174,362 due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 40,008	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,008
Muni Sewer Utility - CIP Funding Source	700008	2,411,711	3,972,104	1,200,000	-	671,083	2,257,204	3,340,734	-	-	-	13,852,837
<b>Total</b>		<b>\$ 2,451,720</b>	<b>\$ 3,972,104</b>	<b>\$ 1,200,000</b>	<b>\$ -</b>	<b>\$ 671,083</b>	<b>\$ 2,257,204</b>	<b>\$ 3,340,734</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 13,892,846</b>

## Public Utilities

### PURE Water Program / ALA00001

### Potable Reuse

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Dorman, Amy
<b>Duration:</b>	2015 - 2035		858-614-5504
<b>Improvement Type:</b>	New		adorman@sandiego.gov

**Description:** This annual allocation provides up to 83 million gallons per day (mgd) of purified water and will require the construction of several treatment plants and conveyance facilities in the City of San Diego. This program is projected to be implemented in two phases. Phase 1 includes the planning, design and construction of a 30 mgd Advanced Water Purification Facility (located across the street from the North City Water Reclamation Plant), a conveyance system to transport the purified water to the Miramar Reservoir, the expansion of the existing North City Water reclamation Plant from 30 mgd to 52 mgd, and the construction of the Morena Blvd pump station/forcemain. Phase 2 includes the planning, design and construction of a 72 mgd wastewater facility, a 53 mgd advanced water purification facility and all required conveyance systems in the central area/South Bay area of San Diego.

**Justification:** This project is needed to meet the new permit requirement stipulated in the 2015 Point Loma Wastewater Treatment Plant permit application and to reduce reliance on external water sources by providing an uninterrupted local water supply.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is in compliance with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 increased by \$16.5 million due to revised requirements. Additionally, in Fiscal Year 2017, the City Council authorized the deappropriation of \$7.3 million.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 21,167,954	\$ 22,784,610	\$ 27,145,387	\$ -	\$ 41,409,167	\$ 160,383,892	\$ 154,767,168	\$ 4,093,778	\$ -	\$ -	\$ 431,751,957
Water Utility - CIP Funding Source	700010	25,630,404	30,135,320	46,966,635	-	59,404,573	424,334,801	248,220,884	1,412,535	-	-	836,105,153
<b>Total</b>		<b>\$ 46,798,359</b>	<b>\$ 52,919,930</b>	<b>\$ 74,112,022</b>	<b>\$ -</b>	<b>\$ 100,813,740</b>	<b>\$ 584,718,693</b>	<b>\$ 402,988,052</b>	<b>\$ 5,506,313</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,267,857,110</b>

Public Utilities

Reclaimed Water Extension / AHC00001

Reclaimed Water System - Pipelines

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Partow, Hooman
Duration:	2010 - 2024		619-533-7577
Improvement Type:	Expansion		hpartow@sandiego.gov

**Description:** This annual allocation provides for pipeline extensions of the City's Recycled Water Distribution System to serve potential customers adjacent or in close proximity to the existing system.

**Justification:** This project provides recycled water to customers served by the pipeline extensions.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2018.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ -	\$ 159,125	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 159,125
Total		\$ -	\$ 159,125	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 159,125



Public Utilities

Reclaimed Water Retrofit / AHC00003

Reclaimed Water System - Pipelines

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Partow, Hooman
Duration:	2010 - 2024		619-533-7577
Improvement Type:	Expansion		hpartow@sandiego.gov

**Description:** This annual allocation provides for supplying city facilities with the proper connections and metering for the new reclaimed water distribution system.

**Justification:** The City of San Diego has embarked on an aggressive water reclamation program to provide reclaimed water to large users of potable water for irrigation purposes. This will allow the City to increase its available potable water to serve new potential customers.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2018.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 59,524	\$ 190,477	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	250,001
Total		\$ 59,524	\$ 190,477	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	250,001

**Public Utilities**

**Recycled Water Systems Upgrades / AHC00004**

**Reclaimed Water System - Pipelines**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Expansion		tphung@sandiego.gov

**Description:** This annual allocation provides for the upgrade and replacement of recycled water system components as necessary.

**Justification:** Replacement and upgrades are necessary for the ongoing operation of the recycled water system.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects are scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 increased by \$388,967 due to revised requirements. Additionally, in Fiscal Year 2017, the City Council authorized the appropriation of \$500,000.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 350,831	\$ 1,536,590	\$ 388,967	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,276,389
Total		\$ 350,831	\$ 1,536,590	\$ 388,967	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,276,389

## Public Utilities

### Recycled Water Tank Modifications / S12014

### Reclaimed Water System - Reservoirs

<b>Council District:</b>	5 8	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Scripps Miramar Ranch; Rancho Penasquitos; Tijuana River Valley	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2014 - 2018		619-533-6651
<b>Improvement Type:</b>	Expansion		dvanmartin@sandiego.gov

**Description:** This project provides three recycled water tank drain modifications to comply with new regulatory requirements. The tanks being modified are three tanks (9 million gallon Miramar Recycled Water Tank, 3 million gallon Black Mountain Ranch Tank, and .75 million gallon South Bay Reclamation Tank).

**Justification:** This project is needed in order to comply with the latest regulatory requirements of the Regional Water Quality Control Board that recycled water be drained to the sewer system rather than the storm drain system.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with Scripps Miramar Ranch, Rancho Penasquitos, and Tijuana River Valley Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design and construction began in Fiscal Year 2016 and is scheduled to be completed in Fiscal Year 2018.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2018.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,387,850	\$ 12,149	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,400,000
Total		\$ 1,387,850	\$ 12,149	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,400,000

**Public Utilities**

**SBWR Plant Demineralization / S00310**

**Bldg - MWWWD - Treatment Plants**

<b>Council District:</b>	8	<b>Priority Score:</b>	77
<b>Community Planning:</b>	Tijuana River Valley	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Warranty	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2006 - 2018		619-533-5105
<b>Improvement Type:</b>	Expansion		bvitelle@sandiego.gov

**Description:** This project provides demineralization of reclaimed water using the Electrodialysis Reversal (EDR) process. The project will relocate two trailer mounted EDR units from the North City Water Reclamation Plant to the South Bay Water Reclamation Plant to reduce the Total Dissolved Solids (TDS) in the reclaimed water. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** The majority of reclaimed water is used for irrigation. Demineralization will reduce the level of total dissolved solids in the reclaimed water.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Tijuana River Valley Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2014 and was completed in Fiscal Year 2015. Construction began in Fiscal Year 2015 and is anticipated to be completed in Fiscal Year 2018.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2018.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 5,032,094	\$ 941,201	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,973,295
Metropolitan Sewer Utility Fund	700001	399	-	-	-	-	-	-	-	-	-	399
<b>Total</b>		<b>\$ 5,032,493</b>	<b>\$ 941,201</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,973,695</b>

## Public Utilities

### Sewer CIP Emergency Reserve / ABT00007

### Bldg - Other City Facility / Structures

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Rashid, Surraya
<b>Duration:</b>	2010 - 2024		858-654-4112
<b>Improvement Type:</b>	Betterment		srashid@sanidiego.gov

**Description:** This project is an emergency capital reserve intended to be used for emergency capital needs.

**Justification:** This reserve is required to comply with the City's reserve policy 100-20.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project acts as a reserve to fund projects on an as-needed basis. Projects utilizing this funding source are consistent with applicable community plans and are in conformance with the City's General Plan.

**Schedule:** The reserve will be used on an as-needed basis and will be held as a continuing appropriation.

**Summary of Project Changes:** This is a newly published annual allocation for Fiscal Year 2018. Additionally, in Fiscal Year 2017 the City Council authorized the conversion of standalone CIP S00342, Sewer CIP Emergency Reserve, into this annual allocation and the transfer of appropriations of \$5.0 million is anticipated for this project.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000
Total		\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000

**Public Utilities**

**Sewer Main Replacements / AJA00001**

**Wastewater - Collection Sys - Main**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for the replacement of deteriorated and undersized sewer mains at various locations within the Municipal Wastewater System.

**Justification:** This annual allocation provides for the replacement of sewer mains that are in a deteriorated condition or are undersized.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$4.0 million. Additionally, the annual project cost for Fiscal Year 2018 increased by \$11.3 million.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 12,183,317	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,183,317
Muni Sewer Utility - CIP Funding Source	700008	178,069,418	21,641,932	47,058,301	-	38,001,328	32,519,561	30,009,242	30,009,242	-	-	377,309,024
Municipal Sewer Revenue Fund	700000	3,663,180	-	-	-	-	-	-	-	-	-	3,663,180
<b>Total</b>		<b>\$ 193,915,915</b>	<b>\$ 21,641,932</b>	<b>\$ 47,058,301</b>	<b>\$ -</b>	<b>\$ 38,001,328</b>	<b>\$ 32,519,561</b>	<b>\$ 30,009,242</b>	<b>\$ 30,009,242</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 393,155,522</b>

**Public Utilities**

**South Metro Sewer Rehabilitation Ph 3B / S00317**

**Bldg - MWWWD - Treatment Plants**

<b>Council District:</b>	2	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Peninsula	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2003 - 2019		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This project will rehabilitate the remaining 5,000 feet of the 108-inch pipeline from Winship Lane to Pump Station 2. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** Sections of the South Metro Interceptor have deteriorated significantly due to the corrosive effects of sewer gases over 40 years.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Peninsula Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design is scheduled to begin in Fiscal Year 2018 and construction is scheduled to begin in Fiscal Year 2020.

**Summary of Project Changes:** The project schedule has been updated for Fiscal Year 2018.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 346	\$ 157,159	\$ -	\$ -	\$ 4,200,000	\$ 4,857,451	\$ -	\$ -	\$ -	\$ -	\$ 9,214,957
<b>Total</b>		<b>\$ 346</b>	<b>\$ 157,159</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,200,000</b>	<b>\$ 4,857,451</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 9,214,957</b>

## Public Utilities

### Standpipe and Reservoir Rehabilitations / ABL00001

### Bldg - Water - Standpipes

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for rehabilitation, upgrades, and improvement projects at reservoirs, dams, and standpipes to improve operations and extend their service life.

**Justification:** The existing reservoirs, dams, and standpipes in the water system have deteriorated and need to be reconstructed or replaced to meet the current Occupational Safety and Health Act and Environmental Protection Agency safety and water quality standards.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is in compliance with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects are scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 increased by \$574,711 due to revised requirements. Additionally, in Fiscal Year 2017 the City Council authorized the deappropriation of \$3.5 million.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 18,071	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,071
Water Utility - CIP Funding Source	700010	8,463,434	4,423,678	2,450,000	-	4,913,751	6,567,358	1,122,040	-	-	-	27,940,262
Water Utility Operating Fund	700011	359,115	-	-	-	-	-	-	-	-	-	359,115
<b>Total</b>		<b>\$ 8,840,622</b>	<b>\$ 4,423,678</b>	<b>\$ 2,450,000</b>	<b>\$ -</b>	<b>\$ 4,913,751</b>	<b>\$ 6,567,358</b>	<b>\$ 1,122,040</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 28,317,449</b>



## Public Utilities

### Tecolote Canyon Trunk Sewer Improvement / S15020

### Wastewater - Collection Sys - Trunk Swr

<b>Council District:</b>	2	<b>Priority Score:</b>	84
<b>Community Planning:</b>	Clairemont Mesa	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Ninh, Michael
<b>Duration:</b>	2015 - 2022		619-533-7443
<b>Improvement Type:</b>	Replacement - Rehab		mninh@san Diego.gov

**Description:** This project will upsize approximately 3.3 miles of existing 18- to 24-inch vitrified clay (VC) sewer pipe in Tecolote Canyon to provide additional capacity, and to rehabilitate approximately 1.4 miles of existing 15-inch VC sewer pipe. Access path will also be designed and constructed as part of the project.

**Justification:** Improvements are needed to accommodate future flow capacity and address deteriorated conditions within the Tecolote Canyon Trunk Sewer.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Clairemont Mesa Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2016 and is anticipated to be completed by Fiscal Year 2019. Construction is scheduled to begin in Fiscal Year 2019 and is anticipated to be completed by Fiscal Year 2021.

**Summary of Project Changes:** No significant change has been made to this project in Fiscal Year 2018.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 1,236,459	\$ 363,540	\$ 4,080,000	\$ -	\$ 8,000,000	\$ 3,000,000	\$ 180,000	\$ -	\$ -	\$ -	\$ 16,860,000
<b>Total</b>		\$ 1,236,459	\$ 363,540	\$ 4,080,000	\$ -	\$ 8,000,000	\$ 3,000,000	\$ 180,000	\$ -	\$ -	\$ -	\$ 16,860,000

**Public Utilities**

**Tierrasanta (Via Dominique) Pump Station / S12040**

**Bldg - Water - Pump Stations**

<b>Council District:</b>	7	<b>Priority Score:</b>	96
<b>Community Planning:</b>	Tierrasanta	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2010 - 2020		619-533-6651
<b>Improvement Type:</b>	Expansion		dvanmartin@sandiego.gov

**Description:** This project provides for a new station with a total pump station capacity of 13.9 million gallons per day (MGD), and 2,900 feet of 16-inch transmission mains. It will replace the existing temporary Tierrasanta Pump Station and Via Dominique Pump Station, and will serve the Tierrasanta Norte 900 Zone and the Tierrasanta 752 Zone.

**Justification:** The existing pump stations are past their useful life and are heavily deteriorated and inefficient.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This plan is consistent with the Tierrasanta Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2013 and completed in Fiscal Year 2016. Construction is scheduled to begin in Fiscal Year 2016 and be completed in Fiscal Year 2019.

**Summary of Project Changes:** The total project cost increased by \$6,693 due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 8,054,481	\$ 103,518	\$ 6,495,996	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,653,996
<b>Total</b>		<b>\$ 8,054,481</b>	<b>\$ 103,518</b>	<b>\$ 6,495,996</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 14,653,996</b>

## Public Utilities

### University Ave Pipeline Replacement / S11021

### Water - Distribution Sys - Distribution

<b>Council District:</b>	3	<b>Priority Score:</b>	93
<b>Community Planning:</b>	Uptown; Greater North Park	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2011 - 2019		619-533-5105
<b>Improvement Type:</b>	Replacement		bvitelle@sanidiego.gov

**Description:** This project replaces 23,072 linear feet of the existing cast iron University Avenue Pipeline with a new 16-inch distribution line along the entire alignment of the pipeline. This project will connect crossing distribution lines at all intersections, and re-connect all services, including tunneling at State Route 163.

**Justification:** Cast iron reaches of the University Avenue Pipeline are neither safe nor reliable facilities and may contribute to poor water quality. An active approach is recommended because of high risks and consequences of pipe failure. The University Avenue Pipeline was built in 1912 and lined with concrete in 1974. The replacement of cast-iron pipes is mandated by the California Department of Public Health's (CDPH) Compliance Order.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Uptown and Greater North Park Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2012 and was completed in Fiscal Year 2015. Construction began in Fiscal Year 2015 and will be completed in Fiscal Year 2019.

**Summary of Project Changes:** The total project cost decreased by \$250,000 due to revised requirements.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 21,310,728	\$ 257,660	\$ 4,301,407	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,869,796
Water Utility Operating Fund	700011	130,203	-	-	-	-	-	-	-	-	-	130,203
<b>Total</b>		<b>\$ 21,440,932</b>	<b>\$ 257,660</b>	<b>\$ 4,301,407</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 26,000,000</b>

**Public Utilities**

**University Heights Water Tower Seismic Retrofit / S17006**

**Bldg - Water - Standpipes**

<b>Council District:</b>	3	<b>Priority Score:</b>	43
<b>Community Planning:</b>	Greater North Park	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2016 - 2019		619-533-5105
<b>Improvement Type:</b>	Betterment		bvitelle@sandiego.gov

**Description:** This project will replace the exterior structural elements which includes replacing the corroded anchor bolt washers, excavating two (2) feet of soil at two (2) column footings to determine embedment depth, removing and replacing existing tie-rods with new tie-rods, and installing new gusset plates and pin connectors.

**Justification:** This project is being driven by the need to repair and retrofit the existing historical University Heights Water Tower to maintain the current state of structural elements and allow for safer performance during seismic events.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Greater North Park Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design has started in Fiscal Year 2017 and is scheduled to be completed in early Fiscal Year 2018. Construction is scheduled to begin in the later part of Fiscal Year 2018 and be completed in Fiscal Year 2019.

**Summary of Project Changes:** The total project cost increased by \$665,000 due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 387,460	\$ 112,539	\$ 1,363,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,863,000
<b>Total</b>		<b>\$ 387,460</b>	<b>\$ 112,539</b>	<b>\$ 1,363,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,863,000</b>

**Public Utilities**

**Unscheduled Projects / AJA00003**

**Wastewater - Collection Sys - Main**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for the repair and replacement of municipal and metropolitan sewers in need of emergency repairs.

**Justification:** This annual allocation provides for emergency repairs and replacement of sewer pipeline to avoid failures of the Municipal and Metropolitan Sewer System.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects are scheduled on a priority basis.

**Summary of Project Changes:** In Fiscal Year 2017 the City Council authorized the appropriation of \$236,228. Additionally, the annual project cost for Fiscal Year 2018 decreased by \$367,348 due to revised requirements.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 552,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 552,840
Metro Sewer Utility - CIP Funding Source	700009	98,060	1,939	-	-	-	-	-	-	-	-	100,000
Muni Sewer Utility - CIP Funding Source	700008	8,717,279	1,020,755	300,000	-	-	-	-	-	-	-	10,038,035
Municipal Sewer Revenue Fund	700000	28,389	-	-	-	-	-	-	-	-	-	28,389
<b>Total</b>		<b>\$ 9,396,569</b>	<b>\$ 1,022,695</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 10,719,265</b>

## Public Utilities

### Upas St Pipeline Replacement / S11022

### Water - Distribution Sys - Distribution

<b>Council District:</b>	2 3	<b>Priority Score:</b>	93
<b>Community Planning:</b>	Uptown; Greater North Park; Midway - Pacific Highway	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2011 - 2019		619-533-5105
<b>Improvement Type:</b>	Replacement		bvitelle@sandiego.gov

**Description:** This project replaces 5.67 miles of cast iron mains along the Upas Street Pipeline from Ray Street to Pacific Highway, as well as portions of the 5th Avenue pipeline and the Park Boulevard pipeline. This project also installs one new pressure reducing station and replaces three existing pressure reducing stations.

**Justification:** This project is needed because the cast iron reaches of the Upas Street Pipeline, and associated Pressure Regulating Stations, are neither safe nor reliable facilities, and may contribute to poor water quality. An active approach is recommended because of high risks and consequences of pipe failure. The Upas Street Pipeline was built in 1940. The replacement of cast iron pipes is mandated by the California Department of Public Health's (CDPH) Compliance Order.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Uptown, Greater North Park, and Midway-Pacific Highway Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2012 and was completed in Fiscal Year 2014. Construction began in Fiscal Year 2014 and is anticipated to be completed in Fiscal Year 2018.

**Summary of Project Changes:** The total project cost increased by \$1.0 million due to revised requirements. Additionally, in Fiscal Year 2017, the City Council authorized the deappropriation of \$2.5 million.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
PFFA-Water Rev Bonds Series 2016A	700095	\$ 2,440,361	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,440,361
Water Utility - CIP Funding Source	700010	31,414,984	127,876	850,000	-	-	-	-	-	-	-	32,392,861
Water Utility Operating Fund	700011	113,102	-	-	-	-	-	-	-	-	-	113,102
<b>Total</b>		<b>\$ 33,968,449</b>	<b>\$ 127,876</b>	<b>\$ 850,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 34,946,326</b>

## Public Utilities

### Water & Sewer Group Job 816 (W) / S13015

### Water - Distribution Sys - Distribution

<b>Council District:</b>	2	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Pacific Beach	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Demich, Andrea
<b>Duration:</b>	2013 - 2020		619-533-5126
<b>Improvement Type:</b>	Expansion		ademich@sanidiego.gov

**Description:** This project is in the Pacific Beach Community and provides for the replacement and expansion of 30,879 linear feet of various pipe materials and sizes.

**Justification:** The majority of Pacific Beach Community pipelines are made of cast iron and are due for replacement in accordance with California Department of Public Health's (CDPH) Compliance Order 04-14-96CO-022. This project is intended to reduce maintenance and improve service.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This plan is consistent with the Pacific Beach Community Plan and is in conformance with the City's General Plan.

**Schedule:** Planning began in Fiscal Year 2012 and was completed in Fiscal Year 2013. Design began in Fiscal Year 2013 and is anticipated to be completed in Fiscal Year 2017. Construction began in Fiscal Year 2016 and is anticipated to be completed in Fiscal Year 2019.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$4.9 million. The total project cost decreased by \$574,492 due to revised requirements.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 7,884,341	\$ 2,824,033	\$ 4,325,508	\$ -	\$ 1,485,509	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,519,392
<b>Total</b>		<b>\$ 7,884,341</b>	<b>\$ 2,824,033</b>	<b>\$ 4,325,508</b>	<b>\$ -</b>	<b>\$ 1,485,509</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 16,519,392</b>

**Public Utilities**

**Water CIP Emergency Reserve / ABT00008**

**Bldg - Other City Facility / Structures**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Rashid, Surraya
<b>Duration:</b>	2010 - 2024		858-654-4112
<b>Improvement Type:</b>	Betterment		srashid@sanidiego.gov

**Description:** This annual allocation provides for an emergency financial reserve for Water Fund capital improvement projects.

**Justification:** This reserve is required to comply with the stipulation in the Bond Counsel.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** Projects utilizing this funding source are consistent with applicable community plans and are in conformance with the City's General Plan.

**Schedule:** This reserve will be used on an as-needed basis, in conformance with Bond Counsel requirements. This reserve will be held as a continuing appropriation.

**Summary of Project Changes:** This is a newly published annual allocation for Fiscal Year 2018. Additionally, in Fiscal Year 2017 the City Council authorized the conversion of standalone CIP S00048, Water CIP Emergency Reserve, into this annual allocation and the transfer of appropriations of \$5.0 million for this project.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000
Total		\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000



**Public Utilities**

**Water Department Security Upgrades / S00050**

**Bldg - Operations Facility / Structures**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	N/A
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	N/A
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2001 - 2020		619-533-6651
<b>Improvement Type:</b>	Betterment		dvanmartin@sandiego.gov

**Description:** This project provides for the design and installation of miscellaneous security systems at various facilities.

**Justification:** This project provides for the deterrence, detection, and apprehension of unauthorized personnel, in order to maintain a safe and secure water system.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Implementation began in Fiscal Year 2001 and will continue through Fiscal Year 2019.

**Summary of Project Changes:** The total project cost increased by \$1.7 million due to revised requirements. In addition, the project schedule has been updated for Fiscal Year 2018.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 4,468,272	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,468,272
Water Utility - CIP Funding Source	700010	8,056,142	2,862,702	200,000	-	3,000,000	-	-	-	-	-	14,118,844
Water Utility Operating Fund	700011	337,812	-	-	-	-	-	-	-	-	-	337,812
<b>Total</b>		<b>\$ 12,862,227</b>	<b>\$ 2,862,702</b>	<b>\$ 200,000</b>	<b>\$ -</b>	<b>\$ 3,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 18,924,929</b>

## Public Utilities

### Water Main Replacements / AKB00003

### Water - Distribution Sys - Distribution

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation allows for the replacement of water mains at various locations throughout the City.

**Justification:** Water mains require replacement due to their deteriorated condition or size limitation. The existing pipeline is either approaching or has exceeded its expected life. The replacement of cast iron pipes is mandated by the California Department of Public Health's (CDPH) Compliance Order.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects are scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 has decreased by \$6.3 million due to revised requirements. Additionally, in Fiscal Year 2017, the City Council authorized the appropriation of \$18.9 million and the transfer of \$1.1 million to S16027 Morena Pipeline per Council Resolution (R-310735).

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 3,315,994	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,315,994
PFFA-Water Rev Bonds Series 2016A	700095	7,129,247	-	-	-	-	-	-	-	-	-	7,129,247
Water Utility - CIP Funding Source	700010	177,831,780	29,065,289	46,202,093	-	50,875,593	50,000,000	50,000,000	50,000,000	-	-	453,974,755
Water Utility Operating Fund	700011	6,618,495	-	-	-	-	-	-	-	-	-	6,618,495
<b>Total</b>		<b>\$ 194,895,517</b>	<b>\$ 29,065,289</b>	<b>\$ 46,202,093</b>	<b>\$ -</b>	<b>\$ 50,875,593</b>	<b>\$ 50,000,000</b>	<b>\$ 50,000,000</b>	<b>\$ 50,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 471,038,492</b>

**Public Utilities**

**Water Pump Station Restoration / ABJ00001**

**Bldg - Water - Pump Stations**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for replacing deteriorated pumping equipment and appurtenances or expanding pumping capacities to meet present and future water demands.

**Justification:** Many existing water pump stations have reached or exceeded their anticipated service life or demands have exceeded their maximum pumping capacity. However, because of the widely varying actual lengths of service life, scheduling for pump station restoration is difficult.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 increased by \$1.2 million due to revised requirements. Additionally, in Fiscal Year 2017, the City Council authorized the appropriation of \$442,462.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 11,224,025	\$ 501,108	\$ 4,948,360	\$ -	\$ 2,509,470	\$ 6,091,349	\$ 8,618,132	\$ 8,618,132	\$ -	\$ -	\$ 42,510,577
Water Utility Operating Fund	700011	37,508	-	-	-	-	-	-	-	-	-	37,508
<b>Total</b>		<b>\$ 11,261,533</b>	<b>\$ 501,108</b>	<b>\$ 4,948,360</b>	<b>\$ -</b>	<b>\$ 2,509,470</b>	<b>\$ 6,091,349</b>	<b>\$ 8,618,132</b>	<b>\$ 8,618,132</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 42,548,085</b>

Public Utilities

Water Treatment Plants / ABI00001

Bldg - Water - Treatment Plants

<b>Council District:</b>	5 7 Non-City	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Scripps Miramar Ranch; Navajo; Non City	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2013 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for upgrades and replacement of the treatment facilities at Alvarado, Miramar, and Otay water treatment plants.

**Justification:** These improvements are necessary to ensure a reliable water supply to the customers and for compliance with the Safe Drinking Water Act.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2018 increased by \$1.0 million due to revised requirements.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 3,946,732	\$ 523,207	\$ 1,000,000	\$ -	\$ 143,493	\$ 703,600	\$ 246,192	\$ 246,192	\$ -	\$ -	\$ 6,809,417
Total		\$ 3,946,732	\$ 523,207	\$ 1,000,000	\$ -	\$ 143,493	\$ 703,600	\$ 246,192	\$ 246,192	\$ -	\$ -	\$ 6,809,417

## Public Utilities

### Wet Weather Storage Facility / S00314

### Bldg - MWWWD - Administration Struct

<b>Council District:</b>	1 2 6	<b>Priority Score:</b>	83
<b>Community Planning:</b>	University; Clairemont Mesa; Mission Bay Park; Peninsula	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Llagas, Margaret
<b>Duration:</b>	1999 - 2019		(858) 654-4494
<b>Improvement Type:</b>	Expansion		mllagas@sanidiego.gov

**Description:** This project includes the implementation of the Emergency Live Stream Discharge of reclaimed water from the North City Reclamation Plant during heavy rain events to reduce the capacity demand on the downstream sewer system and facilities. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** The facility will reduce the risk of potential wet weather overflows, which may be caused by the capacity limitation of Pump Station 2 during extreme rainfall events.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Peninsula, University, and Clairemont Mesa Community Plans, and Mission Bay Park Master Plan and is in conformance with the City's General Plan.

**Schedule:** The project design and construction may be adjusted pending the Regional Water Quality Control Board (RWQCB) approval of the National Pollutant Discharge Elimination System (NPDES) permit.

**Summary of Project Changes:** In Fiscal Year 2017, the City Council authorized the deappropriation of \$500,000.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2018	FY 2018 Anticipated	FY 2019	FY 2020	FY 2021	FY 2022	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 1,853,216	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,853,216
Metro Sewer Utility - CIP Funding Source	700009	147,435	111,221	-	-	4,780,501	-	-	-	-	-	5,039,158
Metropolitan Sewer Utility Fund	700001	379,752	-	-	-	-	-	-	-	-	-	379,752
<b>Total</b>		<b>\$ 2,380,404</b>	<b>\$ 111,221</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,780,501</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,272,127</b>



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