

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 using water purification technology.

Funding for water and wastewater projects are provided by a variety of sources which can include bond financing, commercial paper 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.

2018 CIP Accomplishments

As of June 30, 2018, the Department awarded 33.44 miles of water mains and completed the replacement and rehabilitation of 39.94 miles of sewer mains. The Department has also televised 61.1 miles of sewer mains as of June 30, 2018. To date, over 2,070 miles of sewer mains have been assessed and more than 785 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 occurred in Fiscal Year 2018:

- Construction began on the 30th Street Pipeline Replacement, which consists of the replacement of 16,500 linear feet of the 30th Street cast iron pipeline in the Greater North Park and Golden Hill communities. The construction is anticipated to be completed by June 2020.

- Construction began on the Mid-City Pipeline Phase 2A, which consist of the installation of 820 feet of 66-inch steel pipeline from the 69th & Mohawk Pump Station to the intersection of 68th Street and El Cajon Boulevard. This project is in the Navajo, College Area, and Mid-City communities and is anticipated to be completed by April 2019.
- Construction began on the Soledad Pump Station Upgrade, which consist of building improvements, pump installation and replacement, motor replacements, and electrical upgrades. The pump station is in the La Jolla community and is anticipated to be completed by February 2020.
- Construction began on the La Jolla Country Club Reservoir Project in the La Jolla Community. This project will replace the existing 500,000 gallon reservoir with a new 880,000 gallon concrete rectangular reservoir. The Pump Station will be upgraded with three new pumps that will be able to provide over 3 million gallons per day. The construction is anticipated to be completed by November 2019.
- Construction began on the Sewer and Water Group Job 764A, which consists of the replacement of 8,302 linear feet of sewer mains and 5,709 linear feet of water mains in the Peninsula community.
- Construction began on the Sewer Pump Station No. 2 Power Reliability & Surge Protection Project. This project will improve power reliability and provide standby power at the Pump Station, thus protecting against surges during outages and ultimately preventing sewage spills. The project is anticipated to be completed by December 2021.
- Construction was completed on the SBWRP Demineralization Project, which consisted of the relocation of two trailer mounted Electrodialysis Reversal units from North City Water Reclamation Plant to the South Bay Reclamation Plant to reduce Chloride and overall Total Dissolved Solids in the reclaimed water. This project was in the Tijuana River Valley community.
- Construction was completed on the Pump Station 65 Capacity Upgrade, which consisted of the replacement of two 400 HP motors with two new 500 HP motors and adding one new 500 HP motor and pump, all controlled by variable speed drives. It also included the modification of the wet well and removal of two 150 HP motors and pumps. This project was in the Torrey Pines community.
- Construction was completed on the Sewer and Water Group Job 815, which consisted of the replacement of 5,496 linear feet and rehabilitation of 351 linear feet of existing sewer mains, as well as the replacement of 810 linear feet of water mains in the Mission Beach and Mission Bay Park areas.
- Construction was completed on the False Bay RR Trunk Sewer Project, which consisted of the relocation and encasement of existing 30" sewer main under the railroad tracks along Morena Blvd. at Littlefield St., and the replacement of existing 8" sewer main under the railroad tracks along Morena Blvd, and Knoxville St. with a new 18" sewer in a 30-inch steel encasement. This project was in the Clairemont Mesa community.

Pure Water:

- A majority of the design phase was completed for Phase 1 of the Pure Water Project.
- Finalization of the phase 1 designs and obtain necessary permits from Development Services Department (DSD).
- The Pure Water Program Environmental Impact Report for Phase 1 was adopted by City Council.
- Construction management services for Phase 1 of Pure Water were awarded in FY 2018.
- The Title 22 Engineering Report (required to obtain Division of Drinking Water approval) was finalized in June 2018.
- The application for the NPDES Permit for Miramar Reservoir was submitted to the Regional Board in May 2018. The Regional Board responded in June 2018 that they found it to be complete and are in the process of writing the City's permit.

2019 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.

To improve its aging infrastructure, the Public Utilities Department continues to replace and rehab about 40 sewer miles and award 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 2019, the Department anticipates accomplishing the following for the Pure Water:

- Begin advertisement and award of all Phase 1 Pure Water Projects and start construction
- Obtain final regulatory approval from the Division of Drinking Water and Regional Water Quality Control Board.
- Award the North City Renewable Energy Design-Build-Finance-Operate-Maintain Project.



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Public Utilities: Capital Improvement Projects

Project	Prior Fiscal Years	FY 2019 Adopted	Future Fiscal Years	Project Total
30th Street Pipeline Replacement / S12010	\$ 10,921,187	\$ 11,578,813	\$ 5,000,000	\$ 27,500,000
69th & Mohawk Pump Station / S12011	15,088,594	-	-	15,088,594
Advanced Metering Infrastructure / S17008	65,787,034	1,781,864	-	67,568,898
Alvarado 2nd Extension Pipeline / S12013	4,203,986	2,500,000	46,409,056	53,113,042
Alvarado Trunk Sewer Phase IV / S15019	5,200,000	250,000	39,849,000	45,299,000
Backup Generators at SPS's, TP & EMTS / S12036	15,345,600	-	-	15,345,600
Bayview Reservoir Solar Project / S14021	1,325,000	-	-	1,325,000
Catalina 12inch Cast Iron Mains / S12008	12,480,000	-	-	12,480,000
Chollas Building / S11025	32,096,619	8,380,251	-	40,476,870
Cielo & Woodman Pump Station / S12012	2,532,000	4,146,000	-	6,678,000
Corrosion Control / AKA00001	479,784	-	-	479,784
El Monte Pipeline No 2 / S10008	2,948,000	1,000,000	5,663,558	9,611,558
EMTS Boat Dock Esplanade / S00319	518,535	500,000	1,000,000	2,018,535
Freeway Relocation / AKB00002	2,089,774	500,000	400,000	2,989,774
Groundwater Asset Development Program / ABM00001	2,677,605	150,000	2,500,000	5,327,605
Harbor Dr TS Participation Agreement / RD16001	1,791,250	3,000,000	8,631,582	13,422,832
Instrumentation and Control / AKB00007	200,000	300,000	1,850,000	2,350,000
La Jolla Scenic Drive 16inch Main / S12009	9,232,000	-	-	9,232,000
La Jolla View Reservoir / S15027	3,925,000	500,000	22,575,314	27,000,314
Large Diameter Water Transmission PPL / AKA00003	30,514,451	16,991,975	39,389,650	86,896,076
Little McGonigle Ranch Road Pipeline / S00069	6,000,000	-	-	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 Dewatering Centrifuges Replacement / S00339	12,122,443	-	-	12,122,443
MBC Equipment Upgrades / S17013	1,200,000	1,100,000	8,140,000	10,440,000
Metropolitan System Pump Stations / ABP00002	11,193,703	500,000	1,404,808	13,098,511
Metropolitan Waste Water Department Trunk Sewers / AJB00001	14,163,126	10,374,893	8,472,334	33,010,353
Metro Treatment Plants / ABO00001	5,636,885	7,990,800	2,112,764	15,740,449
Miramar Clearwell Improvements / S11024	81,332,844	29,080,100	9,915,800	120,328,744
MOC Complex Solar Project / S14022	2,675,000	-	-	2,675,000
Montezuma/Mid-City Pipeline Phase II / S11026	8,018,200	10,000,000	13,536,800	31,555,000
Morena Pipeline / S16027	5,998,115	5,000,000	27,175,277	38,173,392
Morena Reservoir Outlet Tower Upgrade / S00041	3,980,000	-	22,520,000	26,500,000
NCWRP Improvements to 30 mgd / S17012	2,110,000	3,580,000	22,990,000	28,680,000
New 16" Water Mains (U-3) / RD15003	1,225,000	-	751,759	1,976,759
Otay 1st/2nd PPL Abandon E of Highland / S11027	6,833,390	-	-	6,833,390

Public Utilities

Project	Prior Fiscal Years	FY 2019 Adopted	Future Fiscal Years	Project Total
Otay 1st/2nd PPL West of Highland Avenue / S12016	4,113,051	9,700,000	15,627,449	29,440,500
Otay Second Pipeline Relocation-PA / S15016	1,834,092	3,000,000	23,210,353	28,044,445
Otay WTP Concrete Work / S11059	4,751,305	-	-	4,751,305
Pacific Beach Pipeline South (W) / S12015	23,881,583	10,491,262	5,737,598	40,110,443
Pipeline Rehabilitation / AJA00002	92,130,063	30,097,920	45,000,000	167,227,983
Point Loma Grit Processing Improvements / S00315	37,315,037	-	-	37,315,037
Pressure Reduction Facility Upgrades / AKA00002	850,000	200,000	-	1,050,000
PS2 Power Reliability & Surge Protection / S00312	24,345,232	19,950,000	28,305,568	72,600,800
PS 84 Upgrade & PS 62 Abandon / S00308	10,320,400	-	-	10,320,400
PUD SAP EHS Implementation / T18001	300,000	-	-	300,000
Pump Station 64,65, Penasquitos, E Mission Gorge / ABP00003	6,314,099	652,960	-	6,967,059
Pump Station Restorations / ABP00001	10,330,921	700,000	5,597,938	16,628,859
PURE Water Program / ALA00001	153,000,312	121,379,888	945,283,688	1,219,663,888
Recycled Water Systems Upgrades / AHC00004	2,227,586	400,000	1,050,000	3,677,586
Recycled Water Tank Modifications / S12014	1,500,000	-	-	1,500,000
SBWR Plant Demineralization / S00310	5,973,695	-	-	5,973,695
Sewer CIP Emergency Reserve / ABT00007	5,000,000	5,000,000	-	10,000,000
Sewer Main Replacements / AJA00001	234,518,370	60,600,791	123,557,970	418,677,131
South Metro Sewer Rehabilitation Ph 3B / S00317	157,506	500,000	8,557,451	9,214,957
Standpipe and Reservoir Rehabilitations / ABL00001	15,872,934	4,675,053	7,689,398	28,237,385
Tecolote Canyon Trunk Sewer Improvement / S15020	5,680,000	-	11,180,000	16,860,000
Tierrasanta (Via Dominique) Pump Station / S12040	14,653,996	600,000	-	15,253,996
University Ave Pipeline Replacement / S11021	26,000,000	-	-	26,000,000
University Heights Water Tower Seismic Retrofit / S17006	2,163,000	-	-	2,163,000
Unscheduled Projects / AJA00003	10,719,265	-	-	10,719,265
Upas St Pipeline Replacement / S11022	35,896,326	500,000	-	36,396,326
Water CIP Emergency Reserve / ABT00008	5,000,000	-	-	5,000,000
Water Department Security Upgrades / S00050	8,565,061	-	1,800,000	10,365,061
Water Main Replacements / AKB00003	250,124,789	77,121,574	185,823,418	513,069,781
Water Pump Station Restoration / ABJ00001	15,900,780	6,401,328	23,327,613	45,629,721
Water & Sewer Group Job 816 (W) / S13015	15,033,883	1,485,509	-	16,519,392
Water Treatment Plants / ABI00001	2,569,966	200,000	1,195,984	3,965,950
Wet Weather Storage Facility / S00314	2,491,626	-	4,780,501	7,272,127
Total	\$ 1,413,559,982	\$ 473,851,792	\$ 1,728,012,631	\$ 3,615,424,405

Public Utilities

30th Street Pipeline Replacement / S12010

Water - Distribution Sys - Transmission

Council District:	3 8	Priority Score:	93
Community Planning:	Greater North Park; Greater Golden Hill; Southeastern San Diego	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Bose, Sheila
Duration:	2014 - 2022		619-533-4698
Improvement Type:	Replacement		sbose@sandiego.gov

Description: This project will replace approximately 6 miles of existing cast iron 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: 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 was completed in Fiscal Year 2018. Construction began in Fiscal Year 2018 and is anticipated to be completed in Fiscal Year 2021.

Summary of Project Changes: The total project cost increased by \$5 million. Additionally, the project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 7,868,298	\$ 3,052,888	\$ 11,578,813	\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,500,000
Total		\$ 7,868,298	\$ 3,052,888	\$ 11,578,813	\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,500,000

Public Utilities

69th & Mohawk Pump Station / S12011

Bldg - Water - Pump Stations

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

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 was completed in Fiscal Year 2017.

Construction began in Fiscal Year 2017 and is anticipated be completed in Fiscal Year 2019.

Summary of Project Changes: The total project cost decreased by \$3.4 million due to a lower construction bid than the original cost estimate. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$3.5 million.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 12,932,418	\$ 2,156,175	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,088,594
Total		\$ 12,932,418	\$ 2,156,175	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,088,594

Public Utilities

Advanced Metering Infrastructure / S17008

Bldg - Other City Facility / Structures

Council District:	Citywide	Priority Score:	86
Community Planning:	Citywide	Priority Category:	High
Project Status:	Continuing	Contact Information:	Bryant, David
Duration:	2017 - 2020		619-533-6967
Improvement Type:	Betterment		dbryant@sandiego.gov

Description: This project deploys Advanced Metering Infrastructure (AMI) technology to approximately 270,000 water meters citywide. This allows meters to be read electronically rather than by direct visual inspection by field staff and helps to implement the City's Climate Action Plan.

Justification: This project streamlines the collection of water meter information, provides near real time data, assists with promptly solving water usage and billing questions, and provides 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 is anticipated to be completed in Fiscal Year 2020.

Summary of Project Changes: The project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 11,935,930	\$ 7,800,179	\$ 534,559	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,270,669
Water Utility - CIP Funding Source	700010	27,431,531	18,619,392	1,247,305	-	-	-	-	-	-	-	47,298,228
Water Utility Operating Fund	700011	1,505	(1,505)	-	-	-	-	-	-	-	-	-
Total		\$ 39,368,966	\$ 26,418,067	\$ 1,781,864	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 67,568,898

Public Utilities

Alvarado 2nd Extension Pipeline / S12013

Water - Distribution Sys - Transmission

Council District:	2 3 7	Priority Score:	92
Community Planning:	Mission Valley; Mission Bay Park; Old San Diego	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Bose, Sheila
Duration:	2016 - 2023		619-533-4698
Improvement Type:	Expansion		sbose@sandiego.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 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 Asbestos Concrete (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. 3.90 miles). Total length of this project is approximately 10.32 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 Water Treatment Plant (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, Old Town San Diego, and Mission Bay Park Community Plans and is in conformance with the City's General Plan.

Schedule: Design began in Fiscal Year 2018 and is anticipated to be completed in Fiscal Year 2020. Construction is scheduled to begin in Fiscal Year 2021 and is anticipated to be completed in Fiscal Year 2023.

Summary of Project Changes: The total project cost decreased by \$5.9 million due to revised requirements. Additionally, the project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 3,680,018	\$ 523,967	\$ 2,500,000	\$ -	\$ 5,000,000	\$ 20,000,000	\$ 20,000,000	\$ 1,409,056	\$ -	\$ -	\$ 53,113,042
Total		\$ 3,680,018	\$ 523,967	\$ 2,500,000	\$ -	\$ 5,000,000	\$ 20,000,000	\$ 20,000,000	\$ 1,409,056	\$ -	\$ -	\$ 53,113,042

Public Utilities

Alvarado Trunk Sewer Phase IV / S15019

Wastewater - Collection Sys - Trunk Swr

Council District:	7 9	Priority Score:	84
Community Planning:	Navajo; College Area	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Batta-Hajjawi, Nabil
Duration:	2015 - 2024		858-614-4254
Improvement Type:	Replacement		nbatta@sanidiego.gov

Description: This project replaces and upsizes 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 and is anticipated to be completed in Fiscal Year 2020. 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 \$16.4 million.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 3,460,890	\$ 1,739,110	\$ 250,000	\$ -	\$ 6,670,000	\$ 21,660,000	\$ 11,519,000	\$ -	\$ -	\$ -	\$ 45,299,000
Total		\$ 3,460,890	\$ 1,739,110	\$ 250,000	\$ -	\$ 6,670,000	\$ 21,660,000	\$ 11,519,000	\$ -	\$ -	\$ -	\$ 45,299,000

Public Utilities

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

Bldg - MWWD - Pump Stations

Council District:	1 5 8	Priority Score:	N/A
Community Planning:	University; Miramar Ranch North; Barrio Logan; Torrey Pines	Priority Category:	N/A
Project Status:	Warranty	Contact Information:	Dadachanji, Chisti
Duration:	2012 - 2019		858-654-4493
Improvement Type:	New		pdadachanji@sandiego.gov

Description: This project purchases seven generators and provides 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: 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 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 6,717,160	\$ 19,061	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,736,222
Muni Sewer Utility - CIP Funding Source	700008	8,534,816	74,561	-	-	-	-	-	-	-	-	8,609,378
Total		\$ 15,251,976	\$ 93,623	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,345,600

Public Utilities

Bayview Reservoir Solar Project / S14021

Bldg - Other City Facility / Structures

Council District:	1	Priority Score:	90
Community Planning:	La Jolla	Priority Category:	High
Project Status:	Continuing	Contact Information:	Lewis, Nikki
Duration:	2015 - 2020		619-533-6653
Improvement Type:	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 lower the electricity expenses of the facility pump stations by approximately 31%.

Operating Budget Impact: The department is anticipating energy cost savings of approximately \$26,490 on an annual basis.

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 were awarded in Fiscal Year 2017 and are anticipated to be completed in Fiscal Year 2019.

Summary of Project Changes: The total project cost decreased by \$1.0 million due to the design/build bids coming in lower than anticipated. In Fiscal Year 2018, the City Council authorized the deappropriation of \$1.0 million. Additionally, the project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Energy Conservation Program CIP Fund	200225	\$ 325,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 325,000
Water Utility - CIP Funding Source	700010	745,375	254,624	-	-	-	-	-	-	-	-	1,000,000
Total		\$ 1,070,375	\$ 254,624	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,325,000

Operating Budget Impact

Department - Fund	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Metro Wastewtr Metro - WATER UTILITY - CIP FUNDING SOURCE	FTEs 0.00	0.00	0.00	0.00	0.00
Metro Wastewtr Metro - WATER UTILITY - CIP FUNDING SOURCE	Total Impact \$ -	(26,490)	(26,490)	(26,490)	(26,490)

Public Utilities

Catalina 12inch Cast Iron Mains / S12008

Water - Distribution Sys - Transmission

Council District:	2	Priority Score:	98
Community Planning:	Peninsula	Priority Category:	High
Project Status:	Continuing	Contact Information:	Ninh, Michael
Duration:	2014 - 2020		619-533-7443
Improvement Type:	Replacement		mninh@sandiego.gov

Description: This project will replace and install approximately 16,000 linear feet of existing cast iron (CI) pipeline 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 anticipated to be completed in Fiscal Year 2019.

Summary of Project Changes: The project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
PFFA-Water Rev Bonds Series 2016A	700095	\$ 3,433	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,433
Water Utility - CIP Funding Source	700010	12,308,975	167,591	-	-	-	-	-	-	-	-	12,476,566
Total		\$ 12,312,408	\$ 167,591	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,480,000

Public Utilities

Chollas Building / S11025

Bldg - Operations Facility / Structures

Council District:	4	Priority Score:	65
Community Planning:	Mid-City: Eastern Area	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Lewis, Nikki
Duration:	2010 - 2021		619-533-6653
Improvement Type:	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. In addition, new compartment material storage bins will be constructed.

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 began in Fiscal Year 2017 and are anticipated to be completed in Fiscal Year 2020.

Summary of Project Changes: The total project cost decreased by \$1.0 million. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$2.5 million.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 28,380,241	\$ 3,465,902	\$ 8,380,251	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,226,395
Water Utility Operating Fund	700011	250,474	-	-	-	-	-	-	-	-	-	250,474
Total		\$ 28,630,716	\$ 3,465,902	\$ 8,380,251	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,476,870

Public Utilities

Cielo & Woodman Pump Station / S12012

Bldg - Water - Pump Stations

Council District:	4	Priority Score:	90
Community Planning:	Southeastern (Encanto Neighborhoods)	Priority Category:	High
Project Status:	Continuing	Contact Information:	Van Martin, Debbie
Duration:	2014 - 2022		619-533-6651
Improvement Type:	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 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.

Justification: This project will replace a deteriorating pump station facility and cast iron mains that lead to the station.

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 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: The project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,384,231	\$ 1,147,768	\$ 4,146,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,678,000
Total		\$ 1,384,231	\$ 1,147,768	\$ 4,146,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,678,000

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 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 206,773	\$ 273,011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 479,784
Total		\$ 206,773	\$ 273,011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 479,784

Public Utilities

EI Monte Pipeline No 2 / S10008

Water - Distribution Sys - Distribution

Council District:	7	Priority Score:	96
Community Planning:	Navajo	Priority Category:	High
Project Status:	Continuing	Contact Information:	Antoun, Nevien
Duration:	2018 - 2023		619-533-4852
Improvement Type:	Replacement - Rehab		nantoun@sanidiego.gov

Description: This project consists of the replacement of two 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 and raising the air release and the air/vacuum relief valves above grade.

Justification: The replacement and repairs are needed to mitigate the potential of a pipeline failure and reduce leakage. 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 began in Fiscal Year 2018 and is anticipated to be completed in Fiscal Year 2020. Construction is scheduled to start in Fiscal Year 2021 and is anticipated to be completed in Fiscal Year 2023.

Summary of Project Changes: The total project cost decreased by \$8.3 million due to revised requirements. Additionally, the project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,713,795	\$ 233,225	\$ 1,000,000	\$ -	\$ 3,000,000	\$ 2,663,558	\$ -	\$ -	\$ -	\$ -	\$ 9,610,578
Water Utility Operating Fund	700011	979	-	-	-	-	-	-	-	-	-	979
Total		\$ 2,714,774	\$ 233,225	\$ 1,000,000	\$ -	\$ 3,000,000	\$ 2,663,558	\$ -	\$ -	\$ -	\$ -	\$ 9,611,558

Public Utilities

EMTS Boat Dock Esplanade / S00319

Bldg - MWWD - Laboratories

Council District:	2	Priority Score:	81
Community Planning:	Peninsula	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Van Martin, Debbie
Duration:	2018 - 2023		619-533-6651
Improvement Type:	New		dvanmartin@sandiego.gov

Description: This project provides for the design and construction of the Environmental Monitoring and Technical Services (EMTS) Laboratory Boat esplanade. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

Justification: Per the terms of the land transfer from the federal government, Metropolitan Wastewater Department (MWWD) designed and constructed a 40,000 square foot ocean monitoring laboratory which is now in operation. This project will fulfill the City's commitment to develop the esplanade as required.

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 will be completed in Fiscal Year 2019 and construction is anticipated to begin in Fiscal Year 2020. The design and construction of the boat dock is currently on hold pending habitat mitigation issues.

Summary of Project Changes: The steam line relocation has been removed from the scope of the project. As a result, the name of this project will be changed by the end of Fiscal Year 2018. The project schedule has been updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 97,850	\$ 420,684	\$ 500,000	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,018,535
Total		\$ 97,850	\$ 420,684	\$ 500,000	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,018,535

Operating Budget Impact

Department - Fund	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Metro Wastewtr Metro - METRO SEWER UTILITY - CIP FUNDING SOURCE	FTEs 0.00	0.00	0.00	0.00	0.00
Metro Wastewtr Metro - METRO SEWER UTILITY - CIP FUNDING SOURCE	Total Impact \$	-	-	-	(14,040)

Public Utilities

Freeway Relocation / AKB00002

Water - Distribution Sys - Distribution

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 funding to relocate water lines in conflict with 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 will be scheduled on a priority basis per Caltrans requests.

Summary of Project Changes: The annual project cost for Fiscal Year 2019 increased by \$400,000 due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,251,601	\$ 838,172	\$ 500,000	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 2,989,774
Total		\$ 1,251,601	\$ 838,172	\$ 500,000	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 2,989,774

Public Utilities

Groundwater Asset Development Program / ABM00001

Bldg - Water - Wells

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Adrian, George
Duration:	2010 - 2024		619-533-4680
Improvement Type:	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 85 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 2024.

Summary of Project Changes: The annual project cost for Fiscal Year 2019 decreased by \$1.4 million due to sub-project schedules.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,609,032	\$ 1,068,572	\$ 150,000	\$ -	\$ 1,900,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ 5,327,605
Total		\$ 1,609,032	\$ 1,068,572	\$ 150,000	\$ -	\$ 1,900,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ 5,327,605

Public Utilities

Harbor Dr TS Participation Agreement / RD16001

Wastewater - Collection Sys - Trunk Swr

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

Description: This project is a 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 to be a high risk for 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 2019 and is anticipated to be completed in Fiscal Year 2020.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 994,300	\$ 796,949	\$ 3,000,000	\$ -	\$ 8,631,582	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,422,832
Total		\$ 994,300	\$ 796,949	\$ 3,000,000	\$ -	\$ 8,631,582	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,422,832

Public Utilities

Instrumentation and Control / AKB00007

Water - Distribution Sys - Distribution

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 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 2019 decreased by \$200,000 due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ -	\$ 200,000	\$ 300,000	\$ -	\$ 500,000	\$ 500,000	\$ 500,000	\$ 350,000	\$ -	\$ -	\$ 2,350,000
Total		\$ -	\$ 200,000	\$ 300,000	\$ -	\$ 500,000	\$ 500,000	\$ 500,000	\$ 350,000	\$ -	\$ -	\$ 2,350,000

Public Utilities

La Jolla Scenic Drive 16inch Main / S12009

Water - Distribution Sys - Transmission

Council District:	1	Priority Score:	82
Community Planning:	La Jolla	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Ninh, Michael
Duration:	2015 - 2020		619-533-7443
Improvement Type:	Expansion		mninh@saniego.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 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 was completed in Fiscal Year 2018. Construction began in Fiscal Year 2018 and is anticipated to be completed in Fiscal Year 2019.

Summary of Project Changes: The project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 8,417,680	\$ 814,319	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,232,000
Total		\$ 8,417,680	\$ 814,319	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,232,000

Public Utilities

La Jolla View Reservoir / S15027

Water - Distribution Sys - Distribution

Council District:	1	Priority Score:	80
Community Planning:	La Jolla	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Van Martin, Debbie
Duration:	2012 - 2024		619-533-6651
Improvement Type:	Expansion		dvanmartin@sandiego.gov

Description: This project will provide for the construction of a new 3.11 million gallons (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 health guide lines, 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 2020. Construction is scheduled to begin in Fiscal Year 2021 and be completed in Fiscal Year 2023.

Summary of Project Changes: Total project cost increased by \$1.7 million. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$1.0 million. The project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,981,999	\$ 943,000	\$ 500,000	\$ -	\$ 305,000	\$ 12,000,000	\$ 10,270,314	\$ -	\$ -	\$ -	\$ 27,000,314
Total		\$ 2,981,999	\$ 943,000	\$ 500,000	\$ -	\$ 305,000	\$ 12,000,000	\$ 10,270,314	\$ -	\$ -	\$ -	\$ 27,000,314

Public Utilities

Large Diameter Water Transmission PPL / AKA00003

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 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 2019 increased by \$5.1 million due to updates to the schedule of sub-projects. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$2.0 million.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 21,246,118	\$ 9,268,333	\$ 16,991,975	\$ -	\$ 9,945,083	\$ 14,346,178	\$ 14,346,178	\$ 752,211	\$ -	\$ -	\$ 86,896,076
Total		\$ 21,246,118	\$ 9,268,333	\$ 16,991,975	\$ -	\$ 9,945,083	\$ 14,346,178	\$ 14,346,178	\$ 752,211	\$ -	\$ -	\$ 86,896,076

Public Utilities

Little McGonigle Ranch Road Pipeline / S00069

Water - Distribution Sys - Transmission

Council District:	1	Priority Score:	70
Community Planning:	Del Mar Mesa; Pacific Highlands Ranch	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Wilson, Leonard
Duration:	2004 - 2021		619-446-5421
Improvement Type:	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, Phase 2, Phase 4, and Phase 5 are complete. The design of Phase 3 is not scheduled at this time.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Del Mar Mesa FBA	400089	\$ 756,999	\$ 743,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
Pacific Highlands Ranch FBA	400090	2,891,811	1,608,188	-	-	-	-	-	-	-	-	4,500,000
Total		\$ 3,648,810	\$ 2,351,189	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,000,000

Public Utilities

Lower Otay Outlet Tower / S12018

Bldg - Water - Reservoirs/Dams

Council District:	Non-City	Priority Score:	89
Community Planning:	Non City	Priority Category:	High
Project Status:	Continuing	Contact Information:	Hong, Vien
Duration:	2014 - 2026		858-292-6473
Improvement Type:	Betterment		vhong@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 2020 and be completed in Fiscal Year 2025. Construction is being evaluated and may be combined with another project, S00044 - Lower Otay Reservoir Emer Outlet Improve.

Summary of Project Changes: The project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 301,015	\$ 698,984	\$ 990,811	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,990,811
Total		\$ 301,015	\$ 698,984	\$ 990,811	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,990,811

Public Utilities

Lower Otay Reservoir Emer Outlet Improve / S00044

Bldg - Water - Reservoirs/Dams

Council District:	8	Priority Score:	75
Community Planning:	Non City	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2003 - 2018		858-292-6425
Improvement Type:	Betterment		tphung@sandiego.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 requires 56 days for 10 percent drawdown.

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 was completed in Fiscal Year 2018. Project may be combined with project S12018 - Lower Otay Outlet Tower.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 403,219	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 403,219
Water Utility - CIP Funding Source	700010	398,333	135,080	-	-	-	-	-	-	-	-	533,414
Water Utility Operating Fund	700011	243,337	-	-	-	-	-	-	-	-	-	243,337
Total		\$ 1,044,890	\$ 135,080	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,179,971

Public Utilities

MBC Dewatering Centrifuges Replacement / S00339

Bldg - MWWD - Treatment Plants

Council District:	6	Priority Score:	83
Community Planning:	Non City	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2012 - 2020		619-533-5105
Improvement Type:	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 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 934	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 934
Metro Sewer Utility - CIP Funding Source	700009	11,421,469	687,414	-	-	-	-	-	-	-	-	12,108,883
Metropolitan Sewer Utility Fund	700001	12,624	-	-	-	-	-	-	-	-	-	12,624
Total		\$ 11,435,029	\$ 687,414	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,122,443

Public Utilities

MBC Equipment Upgrades / S17013

Bldg - MWW - Treatment Plants

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

Description: This project ensures 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: The total project cost increased by \$8.8 million in Fiscal Year 2019 due to additional scope added for replacement of existing inadequate equipment. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$100,000.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 627,705	\$ 572,294	\$ 1,100,000	\$ -	\$ 4,400,000	\$ 3,080,000	\$ 660,000	\$ -	\$ -	\$ -	\$ 10,440,000
Total		\$ 627,705	\$ 572,294	\$ 1,100,000	\$ -	\$ 4,400,000	\$ 3,080,000	\$ 660,000	\$ -	\$ -	\$ -	\$ 10,440,000

Public Utilities

Metro Treatment Plants / ABO00001

Bldg - MWWD - Treatment Plants

Council District:	2 6 7 8	Priority Score:	Annual
Community Planning:	Peninsula; University; Tijuana River Valley	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 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: In Fiscal Year 2018, the City Council authorized the appropriation of \$100,000. Additionally, the annual project cost for Fiscal Year 2019 increased by \$7.4 million due to updated to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 4,559,861	\$ 1,077,024	\$ 7,990,800	\$ -	\$ 1,991,500	\$ 121,264	\$ -	\$ -	\$ -	\$ -	\$ 15,740,449
Total		\$ 4,559,861	\$ 1,077,024	\$ 7,990,800	\$ -	\$ 1,991,500	\$ 121,264	\$ -	\$ -	\$ -	\$ -	\$ 15,740,449

Public Utilities

Metropolitan System Pump Stations / ABP00002

Bldg - MWWD - Pump Stations

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 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: The annual project cost for Fiscal Year 2019 decreased by \$1.2 million due to updated to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 871,254	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 871,254
Metro Sewer Utility - CIP Funding Source	700009	4,281,828	139,384	500,000	-	807,840	316,968	140,000	140,000	-	-	6,326,021
Metropolitan Sewer Utility Fund	700001	5,901,235	-	-	-	-	-	-	-	-	-	5,901,235
Total		\$ 11,054,318	\$ 139,384	\$ 500,000	\$ -	\$ 807,840	\$ 316,968	\$ 140,000	\$ 140,000	\$ -	\$ -	\$ 13,098,511

Public Utilities

Metropolitan Waste Water Department Trunk Sewers / AJB00001

Wastewater - Collection Sys - Trunk Swr

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 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: The annual project cost for Fiscal Year 2019 increased by \$5.8 million due to updated to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 5,220,040	\$ 2,995,234	\$ 4,277,500	\$ -	\$ 469,864	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,962,639
Metropolitan Sewer Utility Fund	700001	23,059	-	-	-	-	-	-	-	-	-	23,059
Muni Sewer Utility - CIP Funding Source	700008	4,438,464	1,486,327	6,097,393	-	631,596	1,634,689	3,762,983	1,973,202	-	-	20,024,655
Total		\$ 9,681,564	\$ 4,481,562	\$ 10,374,893	\$ -	\$ 1,101,460	\$ 1,634,689	\$ 3,762,983	\$ 1,973,202	\$ -	\$ -	\$ 33,010,353

Public Utilities

Miramar Clearwell Improvements / S11024

Bldg - Water - Standpipes

Council District:	5	Priority Score:	100
Community Planning:	Scripps Miramar Ranch; Miramar Ranch North	Priority Category:	High
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2012 - 2022		619-533-5105
Improvement Type:	Replacement		bvitelle@sandiego.gov

Description: This project will construct two new potable water storage 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 Photovoltaic 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: The department is anticipating energy cost savings of approximately \$164,740.

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: No significant change has been made to this project for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 76,221,361	\$ 5,106,987	\$ 29,080,100	\$ -	\$ 9,915,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,324,248
Water Utility Operating Fund	700011	4,495	-	-	-	-	-	-	-	-	-	4,495
Total		\$ 76,225,856	\$ 5,106,987	\$ 29,080,100	\$ -	\$ 9,915,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,328,744

Public Utilities

MOC Complex Solar Project / S14022

Bldg - Other City Facility / Structures

Council District:	6	Priority Score:	90
Community Planning:	Kearny Mesa	Priority Category:	High
Project Status:	Continuing	Contact Information:	Lewis, Nikki
Duration:	2015 - 2020		619-533-6653
Improvement Type:	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: The department is anticipating energy savings from the project and is currently assessing the operational impacts.

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 was awarded in Fiscal Year 2017 and are anticipated to be completed in Fiscal Year 2019.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Energy Conservation Program CIP Fund	200225	\$ 974,999	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 975,000
Metro Sewer Utility - CIP Funding Source	700009	252,244	104,755	-	-	-	-	-	-	-	-	357,000
Muni Sewer Utility - CIP Funding Source	700008	612,593	254,406	-	-	-	-	-	-	-	-	867,000
Water Utility - CIP Funding Source	700010	336,325	139,674	-	-	-	-	-	-	-	-	476,000
Total		\$ 2,176,164	\$ 498,835	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,675,000

Operating Budget Impact

Department - Fund	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Metro Wastewtr Metro - WATER UTILITY - CIP FUNDING SOURCE	FTEs 0.00	0.00	0.00	0.00	0.00
Metro Wastewtr Metro - WATER UTILITY - CIP FUNDING SOURCE	Total Impact \$ -	(81,500)	(81,500)	(81,500)	(81,500)

Public Utilities

Montezuma/Mid-City Pipeline Phase II / S11026

Water - Distribution Sys - Distribution

Council District:	7 9	Priority Score:	98
Community Planning:	College Area; Mid-City; Eastern Area; Navajo	Priority Category:	High
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2013 - 2022		619-533-5105
Improvement Type:	Expansion		bvitelle@sandiego.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, Mid-City, and Eastern Area Community Plans and is in conformance with the City's General Plan.

Schedule: Design began in Fiscal Year 2013 and will be completed in Fiscal Year 2018. Easement acquisition began in Fiscal Year 2017 and was 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 project schedule has been updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 3,091,244	\$ 4,711,843	\$ 10,000,000	\$ -	\$ 13,536,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,339,888
Water Utility Operating Fund	700011	215,111	-	-	-	-	-	-	-	-	-	215,111
Total		\$ 3,306,356	\$ 4,711,843	\$ 10,000,000	\$ -	\$ 13,536,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,555,000

Public Utilities

Morena Pipeline / S16027

Water - Distribution Sys - Transmission

Council District:	2 6 7	Priority Score:	92
Community Planning:	Linda Vista; Clairemont Mesa; Mission Valley	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Batta-Hajjawi, Nabil
Duration:	2015 - 2023		858-614-4524
Improvement Type:	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 is anticipated to be completed in Fiscal Year 2019. Construction is scheduled to begin in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2022.

Summary of Project Changes: The total project cost increased by \$3.5 million due to an updated cost estimate. Additionally, the project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 3,594,087	\$ 2,404,027	\$ 5,000,000	\$ -	\$ 12,000,000	\$ 10,175,277	\$ 5,000,000	\$ -	\$ -	\$ -	\$ 38,173,392
Total		\$ 3,594,087	\$ 2,404,027	\$ 5,000,000	\$ -	\$ 12,000,000	\$ 10,175,277	\$ 5,000,000	\$ -	\$ -	\$ -	\$ 38,173,392

Public Utilities

Morena Reservoir Outlet Tower Upgrade / S00041

Bldg - Water - Reservoirs/Dams

Council District:	Non-City	Priority Score:	90
Community Planning:	Non City	Priority Category:	High
Project Status:	Continuing	Contact Information:	Van Martin, Debbie
Duration:	2011 - 2023		619-533-6651
Improvement Type:	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 2019 and is anticipated to be completed in Fiscal Year 2021.

Summary of Project Changes: The total project increased by \$6.0 million due to increases in scope of work required. The project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 322,485	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 322,485
Water Utility - CIP Funding Source	700010	2,761,145	881,693	-	-	11,000,000	11,520,000	-	-	-	-	26,162,838
Water Utility Operating Fund	700011	14,676	-	-	-	-	-	-	-	-	-	14,676
Total		\$ 3,098,306	\$ 881,693	\$ -	\$ -	\$ 11,000,000	\$ 11,520,000	\$ -	\$ -	\$ -	\$ -	\$ 26,500,000

Public Utilities

NCWRP Improvements to 30 mgd / S17012

Bldg - MWWD - Treatment Plants

Council District:	1	Priority Score:	85
Community Planning:	University	Priority Category:	High
Project Status:	Continuing	Contact Information:	Barhoumi, Amer
Duration:	2017 - 2022		858-292-6364
Improvement Type:	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 million gallons per day (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: The total project cost increased by \$27.0 million in Fiscal Year 2019. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$410,000.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 1,485,164	\$ 624,835	\$ 3,580,000	\$ -	\$ 14,080,000	\$ 6,710,000	\$ 2,200,000	\$ -	\$ -	\$ -	\$ 28,680,000
Total		\$ 1,485,164	\$ 624,835	\$ 3,580,000	\$ -	\$ 14,080,000	\$ 6,710,000	\$ 2,200,000	\$ -	\$ -	\$ -	\$ 28,680,000

Public Utilities

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

Water - Distribution Sys - Distribution

Council District:	5	Priority Score:	N/A
Community Planning:	Torrey Highlands	Priority Category:	N/A
Project Status:	Continuing	Contact Information:	Abeyta, Angela
Duration:	2015 - 2021		619-533-3674
Improvement Type:	Expansion		aabeyta@saniego.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 Torrey Highlands Subarea Plan and is in conformance with the City's General Plan.

Schedule: A portion of the waterline was completed by the developer in Fiscal Year 2008. Construction of the other portions of the Carmel Mountain Road waterline began in Fiscal Year 2015 and is anticipated to be completed in Fiscal Year 2019. The remaining portions of the Camino Del Sur and the Carmel Mountain Road waterline is expected to be completed by the developer as part of a future reimbursement agreement anticipated to be approved in Fiscal Year 2019 with project completion anticipated in Fiscal Year 2021.

Summary of Project Changes: The total project cost increased by \$751,759 and the project schedule was updated to reflect the Fiscal Year 2019 Torrey Highlands Public Facilities Financing Plan expected to be approved in late 2018.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Torrey Highlands	400094	\$ 702,868	\$ 522,131	\$ -	\$ 751,759	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,976,759
Total		\$ 702,868	\$ 522,131	\$ -	\$ 751,759	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,976,759

Public Utilities

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

Water - Distribution Sys - Transmission

Council District:	4 9	Priority Score:	77
Community Planning:	Mid-City: Eastern Area; Mid-City: City Heights	Priority Category:	Low
Project Status:	Warranty	Contact Information:	Vitelle, Brian
Duration:	2011 - 2019		619-533-5105
Improvement Type:	Replacement		bvitelle@sandiego.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 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 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 6,689,913	\$ 98,993	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,788,906
Water Utility Operating Fund	700011	44,483	-	-	-	-	-	-	-	-	-	44,483
Total		\$ 6,734,396	\$ 98,993	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,833,390

Public Utilities

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

Water - Distribution Sys - Transmission

Council District:	3 9	Priority Score:	91
Community Planning:	Mid-City: City Heights; Greater North Park	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2014 - 2022		619-533-5105
Improvement Type:	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 with a new 42-inch pipeline.

Justification: This project will replace the existing deteriorated cast iron pipe. The new pipeline will provide supply reliability and improve 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: No significant change has been made to this project for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 3,339,728	\$ 773,322	\$ 9,700,000	\$ -	\$ 10,000,000	\$ 5,627,449	\$ -	\$ -	\$ -	\$ -	\$ 29,440,500
Total		\$ 3,339,728	\$ 773,322	\$ 9,700,000	\$ -	\$ 10,000,000	\$ 5,627,449	\$ -	\$ -	\$ -	\$ -	\$ 29,440,500

Public Utilities

Otay Second Pipeline Relocation-PA / S15016

Water - Distribution Sys - Transmission

Council District:	Non-City	Priority Score:	98
Community Planning:	Non City	Priority Category:	High
Project Status:	Continuing	Contact Information:	Wilson, Leonard
Duration:	2015 - 2025		619-446-5421
Improvement Type:	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 into the 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 2019. Subsequent design and construction phases will continue through calendar year 2025.

Summary of Project Changes: The total project cost decreased by \$48,780 due to developer's revised construction schedule.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,584,411	\$ 249,680	\$ 3,000,000	\$ -	\$ 8,262,079	\$ 10,218,802	\$ 729,472	\$ 4,000,000	\$ -	\$ -	\$ 28,044,445
Total		\$ 1,584,411	\$ 249,680	\$ 3,000,000	\$ -	\$ 8,262,079	\$ 10,218,802	\$ 729,472	\$ 4,000,000	\$ -	\$ -	\$ 28,044,445

Public Utilities

Otay WTP Concrete Work / S11059

Bldg - Water - Treatment Plants

Council District:	Non-City	Priority Score:	N/A
Community Planning:	Non City	Priority Category:	N/A
Project Status:	Warranty	Contact Information:	Vitelle, Brian
Duration:	2012 - 2019		619-533-5105
Improvement Type:	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 was completed in Fiscal Year 2018.

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

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 4,578,967	\$ 164,227	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,743,194
Water Utility Operating Fund	700011	8,111	-	-	-	-	-	-	-	-	-	8,111
Total		\$ 4,587,078	\$ 164,227	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,751,305

Public Utilities

Pacific Beach Pipeline South (W) / S12015

Water - Distribution Sys - Transmission

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

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 is anticipated to be completed in Fiscal Year 2021.

Summary of Project Changes: Total project cost increased by \$1.0 million due to several unforeseen site conditions and utility conflicts discovered during construction. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$1.0 million.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 23,273,055	\$ 608,527	\$ 10,491,262	\$ -	\$ 5,737,598	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,110,443
Total		\$ 23,273,055	\$ 608,527	\$ 10,491,262	\$ -	\$ 5,737,598	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,110,443

Public Utilities

Pipeline Rehabilitation / AJA00002

Wastewater - Collection Sys - Main

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 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 2018, the City Council authorized the deappropriation of \$5.0 million. Additionally, the annual project cost for Fiscal Year 2019 increased \$13.0 million due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 83,593,548	\$ 8,536,286	\$ 30,097,920	\$ -	\$ 15,000,000	\$ 15,000,000	\$ 15,000,000	\$ -	\$ -	\$ -	\$ 167,227,755
Municipal Sewer Revenue Fund	700000	228	-	-	-	-	-	-	-	-	-	228
Total		\$ 83,593,776	\$ 8,536,286	\$ 30,097,920	\$ -	\$ 15,000,000	\$ 15,000,000	\$ 15,000,000	\$ -	\$ -	\$ -	\$ 167,227,983

Public Utilities

Point Loma Grit Processing Improvements / S00315

Bldg - MWWD - Treatment Plants

Council District:	2	Priority Score:	N/A
Community Planning:	Peninsula	Priority Category:	N/A
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2000 - 2019		619-533-5105
Improvement Type:	Expansion		bvitelle@san Diego.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 is anticipated to be completed in Fiscal Year 2018.

Summary of Project Changes: In Fiscal Year 2018, the City Council authorized the appropriation of \$220,000. 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 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 4,727,066	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,727,066
Metro Sewer Utility - CIP Funding Source	700009	30,637,205	59,614	-	-	-	-	-	-	-	-	30,696,820
Metropolitan Sewer Utility Fund	700001	1,891,149	-	-	-	-	-	-	-	-	-	1,891,149
Total		\$ 37,255,422	\$ 59,614	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37,315,037

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 2019 increased by \$200,000 due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 248,702	\$ 601,297	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,050,000
Total		\$ 248,702	\$ 601,297	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,050,000

Public Utilities

PS 84 Upgrade & PS 62 Abandon / S00308

Bldg - MWWD - Pump Stations

Council District:	5	Priority Score:	86
Community Planning:	Rancho Bernardo; Rancho Penasquitos	Priority Category:	High
Project Status:	Warranty	Contact Information:	Van Martin, Debbie
Duration:	2008 - 2020		619-533-6651
Improvement Type:	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 2018.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2019. This project is complete and will be closed by the end of the fiscal year. Project close out was extended for thorough as-built drawings.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 3,939	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,939
Muni Sewer Utility - CIP Funding Source	700008	9,055,415	256,138	-	-	-	-	-	-	-	-	9,311,554
Municipal Sewer Revenue Fund	700000	1,004,906	-	-	-	-	-	-	-	-	-	1,004,906
Total		\$ 10,064,261	\$ 256,138	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,320,400

Public Utilities

PS2 Power Reliability & Surge Protection / S00312

Bldg - MWWD - Pump Stations

Council District:	2	Priority Score:	90
Community Planning:	Peninsula	Priority Category:	High
Project Status:	Continuing	Contact Information:	Van Martin, Debbie
Duration:	2011 - 2023		619-533-6651
Improvement Type:	Expansion		dvanmartin@sandiego.gov

Description: This project improves the reliability of Pump Station 2 and provides 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. This project also provides the required building upgrades (ADA compliant restrooms and offices). 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 2018 and is scheduled to be completed in Fiscal Year 2022.

Summary of Project Changes: The total project cost increased by \$27.2 million in Fiscal Year 2019 due to additions to the project scope which include: Distribution Control Systems (DCS) upgrades, increased commissioning and testing, added staff space conversions and associated ADA improvements, increased fire alarm and protection systems, added permanent Storm Water facilities, inflation/cost increases, increase in construction duration projection (1 year), and an increase in design and administration. Additionally, the project schedule has been updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 22,703,308	\$ 1,577,757	\$ 19,950,000	\$ -	\$ 15,350,000	\$ 12,955,568	\$ -	\$ -	\$ -	\$ -	\$ 72,536,633
Metropolitan Sewer Utility Fund	700001	64,166	-	-	-	-	-	-	-	-	-	64,166
Total		\$ 22,767,474	\$ 1,577,757	\$ 19,950,000	\$ -	\$ 15,350,000	\$ 12,955,568	\$ -	\$ -	\$ -	\$ -	\$ 72,600,800

Public Utilities

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

Bldg - MWW - Pump Stations

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 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 2019 increased \$652,960 due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 13,508	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,508
Muni Sewer Utility - CIP Funding Source	700008	5,786,883	55,306	652,960	-	-	-	-	-	-	-	6,495,150
Municipal Sewer Revenue Fund	700000	458,400	-	-	-	-	-	-	-	-	-	458,400
Total		\$ 6,258,792	\$ 55,306	\$ 652,960	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,967,059

Public Utilities

Pump Station Restorations / ABP00001

Bldg - MWWD - Pump Stations

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 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 2018, the City Council authorized the appropriation of \$2.7 million. Additionally, the annual project cost for Fiscal Year 2019 increased by \$28,917 due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 40,008	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	40,008
Muni Sewer Utility - CIP Funding Source	700008	7,601,937	2,688,974	700,000	-	2,257,204	3,340,734	-	-	-	-	16,588,850
Total		\$ 7,641,946	\$ 2,688,974	\$ 700,000	\$ -	\$ 2,257,204	\$ 3,340,734	\$ -	\$ -	\$ -	\$ -	\$ 16,628,859

Public Utilities

PURE Water Program / ALA00001

Potable Reuse

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

Description: The Pure Water Program will be implemented in two phases. This annual allocation provides funding for phase I of the Program and it includes the design and construction of several facilities including a 30 million gallons per day (mgd) Pure Water Facility, expansion of the existing North City Water Reclamation Plant from 30mgd to 52 mgd, 30 mgd Pure Water Pump Station and Conveyance system to deliver pure water to Miramar Reservoir, and a 37 mgd pump station and forcemain on Morena Blvd, which will convey additional wastewater from the central area of San Diego to the North City Water Reclamation Plant. The capacity and location of the Phase II Pure Water will be determined once Phase II Pure Water Program validation is complete.

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 2019 increased by \$20.6 million due to updates to the schedule of sub-projects. Additionally, in Fiscal Year 2018, the City Council authorized the deappropriation of \$20.8 million to fund other high priority projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 39,393,625	\$ 30,874,326	\$ 66,823,574	\$ -	\$ 182,527,174	\$ 110,652,092	\$ 59,670,765	\$ 5,592,569	\$ -	\$ -	\$ 495,534,126
Water Utility - CIP Funding Source	700010	53,461,891	29,270,468	54,556,314	-	331,121,758	204,768,729	46,318,163	4,632,438	-	-	724,129,762
Total		\$ 92,855,517	\$ 60,144,794	\$ 121,379,888	\$ -	\$ 513,648,932	\$ 315,420,821	\$ 105,988,928	\$ 10,225,007	\$ -	\$ -	\$ 1,219,663,888

Public Utilities

Recycled Water Systems Upgrades / AHC00004

Reclaimed Water System - Pipelines

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:	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 will be scheduled on a priority basis.

Summary of Project Changes: The annual project cost for Fiscal Year 2019 increased by \$400,000 due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,887,000	\$ 340,585	\$ 400,000	\$ 210,000	\$ 210,000	\$ 210,000	\$ 210,000	\$ 210,000	\$ -	\$ -	\$ 3,677,586
Total		\$ 1,887,000	\$ 340,585	\$ 400,000	\$ 210,000	\$ 210,000	\$ 210,000	\$ 210,000	\$ 210,000	\$ -	\$ -	\$ 3,677,586

Public Utilities

Recycled Water Tank Modifications / S12014

Reclaimed Water System - Reservoirs

Council District:	5 8	Priority Score:	90
Community Planning:	Scripps Miramar Ranch; Rancho Penasquitos; Tijuana River Valley	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Van Martin, Debbie
Duration:	2014 - 2019		619-533-6651
Improvement Type:	Expansion		dvanmartin@sandiego.gov

Description: This project provides three recycled water tank drain modifications to comply with new regulatory requirements. The three tanks being modified: (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 were completed in Fiscal Year 2018.

Summary of Project Changes: Total project cost increased by \$100,000 due to construction operations and additional street paving extended beyond the original schedule due to unforeseen conditions. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$100,000. The project schedule was updated for Fiscal Year 2019. This project is anticipated to be closed by the end of the fiscal year.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,309,923	\$ 190,076	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
Total		\$ 1,309,923	\$ 190,076	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000

Public Utilities

PUD SAP EHS Implementation / T18001

Intangible Assets # Information Tech

Project Status:	Continuing	Contact Information:	Stanley, Vichai
Duration:	2018 - 2019		858-292-6358 vstanley@sandiego.gov

Description: This project is for the replacement of Public Utilities Department legacy Occupational Unified City Health (OUCH) application. This application reports industrial leave, injury, accident and light duty status by classification, injury type, environment and chronology. It is used to generate the Cal OSHA 300 log required by the State of California. It also maintains audit trail of doctor visits and manage release forms.

Justification: OUCH is a legacy application written in a technology that is obsolete, is no longer supported, and is not in compliance with the City's IT Technology Roadmap. The ERP project is to replace OUCH in order to be in compliance with the Technology Roadmap. It has since been determined that the replacement of the OUCH application is a capital project in nature due to the high cost to replace the current obsolete application and its extended useful life. In addition, it has been recommended by the Strategic Technology Advisory Committee that the replacement of this application to be set up as an IT CIP project.

Operating Budget Impact: There will be an increase in the annual non-discretionary allocation for SAP Support (GL 512162), estimated at \$200,000.

Schedule: Implementation began in Fiscal Year 2018 and is scheduled to be completed in Fiscal Year 2019.

Summary of Project Changes: This is a newly published project for Fiscal Year 2019. This project is anticipated to be completed by Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 95,493	\$ 3,506	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 99,000
Muni Sewer Utility - CIP Funding Source	700008	52,087	1,912	-	-	-	-	-	-	-	-	54,000
Water Utility - CIP Funding Source	700010	141,792	5,207	-	-	-	-	-	-	-	-	147,000
Total		\$ 289,373	\$ 10,626	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Public Utilities

SBWR Plant Demineralization / S00310

Bldg - MWWD - Treatment Plants

Council District:	8	Priority Score:	77
Community Planning:	Tijuana River Valley	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2013 - 2020		619-533-5105
Improvement Type:	Expansion		bvitelle@sandiego.gov

Description: This project provides demineralization of reclaimed water using the Electrolysis 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 2019.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 5,381,480	\$ 591,814	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,973,295
Metropolitan Sewer Utility Fund	700001	399	-	-	-	-	-	-	-	-	-	399
Total		\$ 5,381,880	\$ 591,814	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,973,695

Public Utilities

Sewer CIP Emergency Reserve / ABT00007

Bldg - Other City Facility / Structures

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Rashid, Surraya
Duration:	2010 - 2024		858-654-4112
Improvement Type:	Betterment		srashid@sandiego.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: In Fiscal Year 2018, the City Council authorized the appropriation of \$580,000 to replenish the reserve. Additionally, the annual project cost for Fiscal Year 2019 increased by \$5.0 million to set aside reserves for Metro and Muni Sewer funding sources..

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ 5,000,000
Muni Sewer Utility - CIP Funding Source	700008	-	-	5,000,000	-	-	-	-	-		-	5,000,000
Total		\$ -	\$ 5,000,000	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ 10,000,000

Public Utilities

Sewer Main Replacements / AJA00001

Wastewater - Collection Sys - Main

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 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 2018, the City Council authorized the appropriation of \$2.2 million. Additionally, the annual project cost for Fiscal Year 2019 increased by \$22.6 million due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 10,240,843	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,240,843
Muni Sewer Utility - CIP Funding Source	700008	199,367,113	22,708,345	60,600,791	-	38,301,625	30,009,242	30,009,242	25,237,861	-	-	406,234,220
Municipal Sewer Revenue Fund	700000	2,202,067	-	-	-	-	-	-	-	-	-	2,202,067
Total		\$ 211,810,024	\$ 22,708,345	\$ 60,600,791	\$ -	\$ 38,301,625	\$ 30,009,242	\$ 30,009,242	\$ 25,237,861	\$ -	\$ -	\$ 418,677,131

Public Utilities

South Metro Sewer Rehabilitation Ph 3B / S00317

Bldg - MWWD - Treatment Plants

Council District:	2	Priority Score:	90
Community Planning:	Peninsula	Priority Category:	High
Project Status:	Continuing	Contact Information:	Hong, Vien
Duration:	2014 - 2019		858-292-6425
Improvement Type:	Replacement		tphung@sandiego.gov

Description: This project rehabilitates 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 2019 and construction is scheduled to begin in Fiscal Year 2021.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 346	\$ 157,159	\$ 500,000	\$ -	\$ 2,000,000	\$ 4,000,000	\$ 2,557,451	\$ -	\$ -	\$ -	\$ 9,214,957
Total		\$ 346	\$ 157,159	\$ 500,000	\$ -	\$ 2,000,000	\$ 4,000,000	\$ 2,557,451	\$ -	\$ -	\$ -	\$ 9,214,957

Public Utilities

Standpipe and Reservoir Rehabilitations / ABL00001

Bldg - Water - Standpipes

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 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 2019 decreased by \$238,698 due to updates to the schedule of sub-projects. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$5.4 million.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 18,071	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,071
Water Utility - CIP Funding Source	700010	12,474,787	3,156,425	4,675,053	-	6,567,358	1,122,040	-	-	-	-	27,995,663
Water Utility Operating Fund	700011	223,649	-	-	-	-	-	-	-	-	-	223,649
Total		\$ 12,716,508	\$ 3,156,425	\$ 4,675,053	\$ -	\$ 6,567,358	\$ 1,122,040	\$ -	\$ -	\$ -	\$ -	\$ 28,237,385

Public Utilities

Tecolote Canyon Trunk Sewer Improvement / S15020

Wastewater - Collection Sys - Trunk Swr

Council District:	2	Priority Score:	84
Community Planning:	Clairemont Mesa	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Ninh, Michael
Duration:	2015 - 2024		619-533-7443
Improvement Type:	Replacement - Rehab		mninh@saniego.gov

Description: This project upsizes 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. An access path is also being 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 2020 and is anticipated to be completed by Fiscal Year 2022.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 1,351,198	\$ 4,328,801	\$ -	\$ -	\$ 10,000,000	\$ 1,180,000	\$ -	\$ -	\$ -	\$ -	\$ 16,860,000
Total		\$ 1,351,198	\$ 4,328,801	\$ -	\$ -	\$ 10,000,000	\$ 1,180,000	\$ -	\$ -	\$ -	\$ -	\$ 16,860,000

Public Utilities

Tierrasanta (Via Dominique) Pump Station / S12040

Bldg - Water - Pump Stations

Council District:	7	Priority Score:	96
Community Planning:	Tierrasanta	Priority Category:	High
Project Status:	Continuing	Contact Information:	Van Martin, Debbie
Duration:	2010 - 2020		619-533-6651
Improvement Type:	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 was completed in Fiscal Year 2016. Construction began in Fiscal Year 2017 and is anticipated to be completed in Fiscal Year 2019.

Summary of Project Changes: The total project cost increased by \$600,000 due to costs associated with the emergency generator upgrade.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 14,410,818	\$ 243,177	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,253,996
Total		\$ 14,410,818	\$ 243,177	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,253,996

Public Utilities

University Ave Pipeline Replacement / S11021

Water - Distribution Sys - Distribution

Council District:	3	Priority Score:	93
Community Planning:	Uptown; Greater North Park	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2011 - 2021		619-533-5105
Improvement Type:	Replacement		bvitelle@sandiego.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: This project will replace the existing deteriorated cast iron pipe. 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. The new pipeline will provide supply reliability and improve water quality.

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 is anticipated to be completed in Fiscal Year 2021.

Summary of Project Changes: No significant changes have been made to this project for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 25,437,472	\$ 432,323	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,869,796
Water Utility Operating Fund	700011	130,203	-	-	-	-	-	-	-	-	-	130,203
Total		\$ 25,567,676	\$ 432,323	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,000,000

Public Utilities

University Heights Water Tower Seismic Retrofit / S17006

Bldg - Water - Standpipes

Council District:	3	Priority Score:	43
Community Planning:	Greater North Park	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2016 - 2020		619-533-5105
Improvement Type:	Replacement		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 started in Fiscal Year 2017 and was completed in early Fiscal Year 2018. Construction began in the later part of Fiscal Year 2018 and scheduled to be completed in Fiscal Year 2019.

Summary of Project Changes: Total project costs increased by \$300,000 due to higher construction bids and additional anticipated work. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$300,000.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,574,980	\$ 588,019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,163,000
Total		\$ 1,574,980	\$ 588,019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,163,000

Public Utilities

Unscheduled Projects / AJA00003

Wastewater - Collection Sys - Main

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 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: No significant change has been made to this project for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 552,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 552,840
Metro Sewer Utility - CIP Funding Source	700009	331,620	97,053	-	-	-	-	-	-	-	-	428,674
Muni Sewer Utility - CIP Funding Source	700008	9,102,239	607,121	-	-	-	-	-	-	-	-	9,709,361
Municipal Sewer Revenue Fund	700000	28,389	-	-	-	-	-	-	-	-	-	28,389
Total		\$ 10,015,089	\$ 704,175	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,719,265

Public Utilities

Upas St Pipeline Replacement / S11022

Water - Distribution Sys - Distribution

Council District:	2 3	Priority Score:	93
Community Planning:	Uptown; Greater North Park; Midway - Pacific Highway	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2011 - 2021		619-533-5105
Improvement Type:	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 will replace the existing deteriorated cast iron pipe. The new pipeline will provide supply reliability and improve water quality.

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 2020.

Summary of Project Changes: Total project cost increased by \$1.5 million due to unexpected conditions at the site and project delays. In Fiscal Year 2018, the City Council authorized the appropriation of \$950,000. Additionally, the project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	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	32,325,835	1,017,025	500,000	-	-	-	-	-	-	-	33,842,861
Water Utility Operating Fund	700011	113,102	-	-	-	-	-	-	-	-	-	113,102
Total		\$ 34,879,300	\$ 1,017,025	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,396,326

Public Utilities

Water & Sewer Group Job 816 (W) / S13015

Water - Distribution Sys - Distribution

Council District:	2	Priority Score:	90
Community Planning:	Pacific Beach	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Demich, Andrea
Duration:	2013 - 2020		619-533-5126
Improvement Type:	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. 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 2019. Construction began in Fiscal Year 2016 and is anticipated to be completed in Fiscal Year 2019.

Summary of Project Changes: The schedule has been updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 13,626,438	\$ 1,407,444	\$ 1,485,509	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,519,392
Total		\$ 13,626,438	\$ 1,407,444	\$ 1,485,509	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,519,392

Public Utilities

Water CIP Emergency Reserve / ABT00008

Bldg - Other City Facility / Structures

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Rashid, Surraya
Duration:	2010 - 2024		858-654-4112
Improvement Type:	Betterment		srashid@sandiego.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: In Fiscal Year 2018, the City Council authorized the appropriation of \$3.5 million.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	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

Council District:	Citywide	Priority Score:	N/A
Community Planning:	Citywide	Priority Category:	N/A
Project Status:	Continuing	Contact Information:	Van Martin, Debbie
Duration:	2001 - 2021		619-533-6651
Improvement Type:	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 2020.

Summary of Project Changes: The annual project cost for Fiscal Year 2019 decreased by \$3.0 million due to updates to the schedule of sub-projects. Additionally, the project schedule was updated for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 4,468,272	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,468,272
Water Utility - CIP Funding Source	700010	1,042,664	3,023,138	-	-	1,800,000	-	-	-	-	-	5,865,803
Water Utility Operating Fund	700011	30,986	-	-	-	-	-	-	-	-	-	30,986
Total		\$ 5,541,923	\$ 3,023,138	\$ -	\$ -	\$ 1,800,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,365,061

Public Utilities

Water Main Replacements / AKB00003

Water - Distribution Sys - Distribution

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 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 will be scheduled on a priority basis.

Summary of Project Changes: The annual project cost for Fiscal Year 2019 increased by \$26.2 million due to schedule of sub-projects. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$22.3 million.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 1,174,913	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,174,913
PFFA-Water Rev Bonds Series 2016A	700095	6,773,928	182,457	-	-	-	-	-	-	-	-	6,956,385
Water Utility - CIP Funding Source	700010	220,529,582	20,468,719	77,121,574	-	50,000,000	50,000,000	50,000,000	35,823,418	-	-	503,943,294
Water Utility Operating Fund	700011	995,187	-	-	-	-	-	-	-	-	-	995,187
Total		\$ 229,473,612	\$ 20,651,176	\$ 77,121,574	\$ -	\$ 50,000,000	\$ 50,000,000	\$ 50,000,000	\$ 35,823,418	\$ -	\$ -	\$ 513,069,781

Public Utilities

Water Pump Station Restoration / ABJ00001

Bldg - Water - Pump Stations

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 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 2019 increased by \$3.9 million due to updates to the schedule of sub-projects. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$200,000.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 14,639,761	\$ 1,223,510	\$ 6,401,328	\$ -	\$ 6,091,349	\$ 8,618,132	\$ 8,618,132	\$ -	\$ -	\$ -	\$ 45,592,212
Water Utility Operating Fund	700011	37,508	-	-	-	-	-	-	-	-	-	37,508
Total		\$ 14,677,269	\$ 1,223,510	\$ 6,401,328	\$ -	\$ 6,091,349	\$ 8,618,132	\$ 8,618,132	\$ -	\$ -	\$ -	\$ 45,629,721

Public Utilities

Water Treatment Plants / ABI00001

Bldg - Water - Treatment Plants

Council District:	5 7 Non-City	Priority Score:	Annual
Community Planning:	Scripps Miramar Ranch; Navajo; Non City	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2013 - 2024		858-292-6425
Improvement Type:	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 under 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 2019 increased by \$56,507 due to updates to the schedule of sub-projects. Additionally, in Fiscal Year 2018, the City Council authorized the appropriation of \$1.1 million.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 272,260	\$ 2,297,705	\$ 200,000	\$ -	\$ 703,600	\$ 246,192	\$ 246,192	\$ -	\$ -	\$ -	\$ 3,965,950
Total		\$ 272,260	\$ 2,297,705	\$ 200,000	\$ -	\$ 703,600	\$ 246,192	\$ 246,192	\$ -	\$ -	\$ -	\$ 3,965,950

Public Utilities

Wet Weather Storage Facility / S00314

Bldg - MWWD - Administration Struct

Council District:	1 2 6	Priority Score:	83
Community Planning:	University; Clairemont Mesa; Mission Bay Park; Peninsula	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Hong, Vien
Duration:	2010 - 2018		(858) 654-4494
Improvement Type:	Expansion		mllagas@saniego.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, expected in Fiscal Year 2019.

Summary of Project Changes: No significant change has been made to this project for Fiscal Year 2019.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2019	FY 2019 Anticipated	FY 2020	FY 2021	FY 2022	FY 2023	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 1,853,216	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,853,216
Metro Sewer Utility - CIP Funding Source	700009	148,935	109,721	-	-	1,000,000	3,780,501	-	-	-	-	5,039,158
Metropolitan Sewer Utility Fund	700001	379,752	-	-	-	-	-	-	-	-	-	379,752
Total		\$ 2,381,904	\$ 109,721	\$ -	\$ -	\$ 1,000,000	\$ 3,780,501	\$ -	\$ -	\$ -	\$ -	\$ 7,272,127