

Stormwater



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Stormwater

The Stormwater Department's Capital Improvements Program provides for the installation and improvements of stormwater drainage infrastructure and systems. The Department plans and programs improvements to stormwater infrastructure, including the installation of green infrastructure.

2021 CIP Accomplishments

The Department, in coordination with the Engineering & Capital Projects Department, plans to complete construction of the following Stormwater projects, which will improve storm drain infrastructure and meet pollution prevention mandates, in Fiscal Year 2021:

- 1st Avenue CMP Storm Drain Emergency
- 6500 Montezuma Rd Storm Drain Emergency
- 7649 Shorewood Dr Storm Drain Replacement Emergency
- 836 Gage Drive Storm Drain Replacement Emergency
- Agee/Cozzens Urgent Storm Drain Replacement (Phase 1 and 2)
- Angell Ave Urgent CMP Storm Drain Replacement
- Cardinal Road Emergency Storm Drain Replacement
- Casita Way Storm Drain Replacement
- City Heights & Morley Field Storm Drain
- Crest Canyon Park Emergency Storm Drain Replacement
- Mt. Albertine Ave CMP Storm Drain Emergency
- Rancho Mission Canyon Storm Drain Emergency
- Wellborn Street Storm Drain Emergency

2022 CIP Goals

The Stormwater Department is committed to improving storm drain infrastructure as flood risk management and installing green infrastructure to improve water quality. To improve storm drain infrastructure and meet pollution removal mandates, the Department, in coordination with the Engineering & Capital Projects Department, is scheduled to begin construction in Fiscal Year 2022 for the following:

- 1218 Aqua Park Street Storm Drain Replacement
- 1932 Springer Road Storm Drain Replacement
- 2356 Hopkins Street Storm Drain Replacement
- 2361 Westwood Street Storm Drain Replacement
- 3952 Calgary Drive Storm Drain Replacement
- 5163 East Bedford Drive Storm Drain Replacement
- 5861 College Avenue Storm Drain Replacement
- 5th and Brookes Storm Drain Upgrades
- 6576 Parkside Ave Storm Drain Replacement
- Adams Ave (1620) Storm Drain Replacement
- Agee/Cozzens Storm Drain Replacement (Phase 4)
- Forward and La Jolla Storm Drain Replacement
- Guy Street Storm Drain Replacement
- La Jolla Farms Outfall Repair

Stormwater

- Lake Murray Blvd. & Highwood Dr. Storm Drain Replacement
- Logan Heights LID (South)
- Navajo Storm Drains
- South Mission Beach Storm Drain Replacement

In addition, the Department is scheduled to complete construction for flood risk management and green infrastructure projects in Fiscal Year 2022 including:

- CMP Storm Drain Lining II
- CMP Storm Drain Lining III
- Jamacha Lomita Green Infrastructure
- South Mission Beach Green Infrastructure

Stormwater: Capital Improvement Projects

Project	Prior Fiscal Years	FY 2022 Proposed	Future Fiscal Years	Project Total
Alta La Jolla Drive Drainage Repair PhII / S10001	\$ 6,206,105	\$ -	\$ -	\$ 6,206,105
Drainage Projects / ACA00001	107,784,678	1,000,000	300,359,584	409,144,262
Hayes Ave Storm Drain / S11002	1,281,453	-	-	1,281,453
Maple Canyon Storm Drain Upgrade / S20003	500,000	-	29,750,000	30,250,000
Watershed CIP / ACC00001	27,335,633	-	1,145,454,049	1,172,789,682
Total	\$ 143,107,869	\$ 1,000,000	\$ 1,475,563,633	\$ 1,619,671,502



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Stormwater

Alta La Jolla Drive Drainage Repair PhII / S10001

Drainage - Storm Drain Pipes

Council District:	1	Priority Score:	91
Community Planning:	La Jolla	Priority Category:	High
Project Status:	Warranty	Contact Information:	Lotfi, Elham
Duration:	2009 - 2023		619-533-5212
Improvement Type:	Betterment		elotfi@sanidiego.gov

Description: This project will repair the erosion and damage to the lower La Jolla Canyon bounded by Alta La Jolla Drive and the cul-de-sac at Vickie Drive.

Justification: This project is part of the settlement agreement and limited release entered into by the La Jolla Alta Master Council and the City of San Diego.

Operating Budget Impact: The operating and maintenance funding for this project will be included in the Stormwater budget.

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 2010 and was completed in Fiscal Year 2013. However, the design plans and specifications had to be updated to comply with state and federal permits received in Fiscal Year 2014. Updated design was completed in Fiscal Year 2015. Construction began in Fiscal Year 2016 and was completed in Fiscal Year 2017. A five-year maintenance and monitoring period is required by the project permits. The project is anticipated to be completed by Fiscal Year 2023.

Summary of Project Changes: No significant changes were made to this project for Fiscal Year 2022.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2022	FY 2022 Anticipated	FY 2023	FY 2024	FY 2025	FY 2026	Future FY	Unidentified Funding	Project Total
Private & Others Contrib-CIP	400264	\$ 6,182,206	\$ 23,898	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,206,105
Total		\$ 6,182,206	\$ 23,898	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,206,105

Stormwater

Drainage Projects / ACA00001

Drainage - Storm Drain Pipes

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Dastgheibi, Sara
Duration:	2010 - 2040		858-541-4369
Improvement Type:	New		sdastgheibi@sandiego.gov

Description: This annual allocation provides for reconstructing or replacing failed or undersized drainage facilities citywide.

Justification: This project provides for the high priority redesign and reconstruction of existing storm drain structures. There are currently over 900 miles of storm drains in the City of San Diego. These storm drains can fail because of a variety of reasons (system material, age, earth movement, etc.). The Operations and Maintenance Section of the Stormwater Department regularly cleans these systems and performs minor repairs; however, storm drain systems that require redesign and reconstruction are often encountered.

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 as funding is identified.

Summary of Project Changes: During Fiscal Year 2021, \$9.4 million was appropriated via multiple Council resolutions to support drainage projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2022	FY 2022 Anticipated	FY 2023	FY 2024	FY 2025	FY 2026	Future FY	Unidentified Funding	Project Total
Capital Outlay Fund	400002	\$ 6,955,146	\$ 722,268	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,677,415
Capital Outlay-Sales Tax	400000	247	32,000	-	-	-	-	-	-	-	-	32,247
CIP Contributions from General Fund	400265	16,150,569	1,090,749	-	-	-	-	-	-	-	-	17,241,317
College Area	400127	300,000	-	-	-	-	-	-	-	-	-	300,000
Deferred Maint Revenue 2009A-Project	400624	372,673	-	-	-	-	-	-	-	-	-	372,673
Deferred Maintenance Revenue 2012A-Project	400848	3,507,213	-	-	-	-	-	-	-	-	-	3,507,213
Financing	9300	-	-	-	31,221,271	29,437,749	-	-	-	-	-	60,659,020
General Fund Commercial Paper Notes	400869	35,007,767	495,240	-	-	-	-	-	-	-	-	35,503,007
Infrastructure Fund	100012	6,402,893	2,047,007	-	-	-	-	-	-	-	-	8,449,900
Mid City Urban Comm	400114	80,004	58,605	-	-	-	-	-	-	-	-	138,609
Midway/Pacific Hwy Urban Comm	400115	174,276	1,348,332	-	-	-	-	-	-	-	-	1,522,608
Navajo Urban Comm	400116	710,395	1,130,224	-	-	-	-	-	-	-	-	1,840,619
North Park Urban Comm	400112	354,508	486,576	-	-	-	-	-	-	-	-	841,084
Other Debt Financing	9302	-	-	-	18,500,000	-	-	-	-	-	-	18,500,000
Pacific Beach Urban Comm	400117	750,000	-	-	-	-	-	-	-	-	-	750,000
PFFA Lease Revenue Bonds 2015A-Projects	400859	6,771,010	-	-	-	-	-	-	-	-	-	6,771,010
PFFA Lease Revenue Bonds 2015B-Project	400860	6,429,849	-	-	-	-	-	-	-	-	-	6,429,849
PFFA Lease Revenue Refunding Bonds 2013A - Project	400853	4,299,755	-	-	-	-	-	-	-	-	-	4,299,755
Private & Others Contrib-CIP	400264	-	150,000	-	-	-	-	-	-	-	-	150,000
SDTFC Series 2018C Tax Exempt	400868	1,129,000	-	-	-	-	-	-	-	-	-	1,129,000
Skyline/Paradise Urb Comm	400119	17,450	-	-	-	-	-	-	-	-	-	17,450
TransNet (Prop A 1/2% Sales Tax)	400156	1,872	-	-	-	-	-	-	-	-	-	1,872
TransNet ARRA Exchange Fund	400677	275,233	-	-	-	-	-	-	-	-	-	275,233
TransNet Extension Congestion Relief Fund	400169	3,059,150	6,074,666	1,000,000	-	1,000,000	1,000,000	1,000,000	1,000,000	-	-	14,133,816
Unidentified Funding	9999	-	-	-	-	-	-	-	-	-	217,200,564	217,200,564
Uptown Urban Comm	400121	764,165	635,835	-	-	-	-	-	-	-	-	1,400,000
Total		\$ 93,513,175	\$ 14,271,502	\$ 1,000,000	\$ 49,721,271	\$ 30,437,749	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ -	\$ 217,200,564	\$ 409,144,262

Stormwater

Hayes Ave Storm Drain / S11002

Drainage - Storm Drain Pipes

Council District:	3	Priority Score:	41
Community Planning:	Uptown	Priority Category:	Low
Project Status:	Warranty	Contact Information:	Lotfi, Elham
Duration:	2011 - 2022		619-533-5212
Improvement Type:	Replacement		elotfi@sandiego.gov

Description: This project provides for improved flood control by upgrading the existing pipe along Hayes Avenue.

Justification: This project will alleviate frequent flooding during normal storm events because of the current undersized storm drain pipe.

Operating Budget Impact: The operating and maintenance funding for this project has been included in the Stormwater budget.

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

Schedule: Design began in Fiscal Year 2011 and was completed in Fiscal Year 2019. The Environmental report was protested, which delayed the project by one year. Construction began in Fiscal Year 2019 and was completed in Fiscal Year 2020. Maintenance and monitoring began in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2021. Project is anticipated to close in Fiscal Year 2022.

Summary of Project Changes: In Fiscal Year 2021 total project cost decreased by \$117,648 which was deappropriated as authorized by City Council due to lower project costs. The project schedule has been updated for Fiscal Year 2022.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2022	FY 2022 Anticipated	FY 2023	FY 2024	FY 2025	FY 2026	Future FY	Unidentified Funding	Project Total
Capital Outlay Fund	400002	\$ 2,815	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,815
CIP Contributions from General Fund	400265	94,042	-	-	-	-	-	-	-	-	-	94,042
Deferred Maintenance Revenue 2012A-Project	400848	6,850	-	-	-	-	-	-	-	-	-	6,850
General Fund Commercial Paper Notes	400869	154,145	6,407	-	-	-	-	-	-	-	-	160,552
Infrastructure Fund	100012	107,448	-	-	-	-	-	-	-	-	-	107,448
PFFA Lease Revenue Bonds 2015B-Project	400860	160,645	-	-	-	-	-	-	-	-	-	160,645
TransNet Extension Congestion Relief Fund	400169	15,000	-	-	-	-	-	-	-	-	-	15,000
Uptown Urban Comm	400121	734,100	-	-	-	-	-	-	-	-	-	734,100
Total		\$ 1,275,045	\$ 6,406	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,281,452

Stormwater

Maple Canyon Storm Drain Upgrade / S20003

Drainage - Channels

Council District:	3	Priority Score:	86
Community Planning:	Centre City; Uptown	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Lotfi, Elham
Duration:	2021 - 2029		619-533-5212
Improvement Type:	Replacement		elotfi@sandiego.gov

Description: Project aims to realign and upgrade approximately 3,000 feet of existing drainage system between the San Diego Airport, a private industrial Facility, and Pacific Highway.

Justification: The existing alignment of the pipes prevents maintenance and repairs from occurring because a large portion of the system flows underneath a private property. The system is significantly undersized to convey the flow and sediment coming from the large connected tributary Maple Canyon watershed located upstream of the project which historically caused severe flooding in the project area resulting in significant property damage.

Operating Budget Impact: No additional maintenance costs are anticipated. The pipes will be relocated to the public Right of Way and enhanced; therefore, maintenance costs should be reduced for this system.

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

Schedule: A feasibility study is scheduled to start in Fiscal Year 2021 and is anticipated to be completed in Fiscal Year 2023. The project design and construction schedule is dependent on the outcome of the feasibility study and will be determined in the future.

Summary of Project Changes: In Fiscal Year 2021, the City Council authorized the appropriation of \$250,000 to this project.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2022	FY 2022						Unidentified Funding	Project Total	
					Anticipated	FY 2023	FY 2024	FY 2025	FY 2026	Future FY			
CIP Contributions from General Fund	400265	\$ 11,406	\$ 488,593	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000
Financing	9300	-	-	-	500,000	-	-	-	-	-	-	-	500,000
Unidentified Funding	9999	-	-	-	-	-	-	-	-	-	29,250,000	-	29,250,000
Total		\$ 11,406	\$ 488,593	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,250,000	\$ -	\$ 30,250,000

Stormwater

Watershed CIP / ACC00001

Drainage - Best Mgt Practices (BMPs)

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Clairemont Mesa	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Dastgheibi, Sara
Duration:	2010 - 2040		858-541-4369
Improvement Type:	Betterment		sdastgheibi@sandiego.gov

Description: This annual allocation provides for the design and construction of watershed capital projects. These projects, in conjunction with non-structural water quality projects, address storm drain discharge water quality standards.

Justification: The purpose of these projects is to remove pollutants from stormwater before it enters the City's public waterways or to reuse the stormwater and keep it from entering public waterways. This results in reduced pollutants entering the ocean and various San Diego rivers and bays. These projects satisfy watershed-based water quality activity requirements in the Regional Water Quality Control Board's Municipal Stormwater National Pollutant Discharge Elimination System (NPDES) permit.

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 to address pollutants of concern within high priority watersheds and are planned based on regulatory requirements and as funding is allocated.

Summary of Project Changes: No significant changes were made to this project for Fiscal Year 2022.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2022	FY 2022						Unidentified Funding	Project Total
					Anticipated	FY 2023	FY 2024	FY 2025	FY 2026	Future FY		
Capital Outlay Fund	400002	\$ 1,059,545	\$ 42,716	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,102,261
CIP Contributions from General Fund	400265	6,921,911	468,813	-	-	-	-	-	-	-	-	7,390,724
Deferred Maintenance Revenue 2012A-Project	400848	828,055	-	-	-	-	-	-	-	-	-	828,055
Financing	9300	-	-	-	17,400,000	21,562,251	-	49,000,000	-	-	-	87,962,251
General Fund Commercial Paper Notes	400869	9,781,442	2,389,591	-	-	-	-	-	-	-	-	12,171,033
Grant Fund - Federal	600000	-	-	-	5,975,582	-	-	-	-	-	-	5,975,582
Grant Fund - State	600001	630,500	-	-	-	-	-	-	-	-	-	630,500
Infrastructure Fund	100012	617,351	86,450	-	-	-	-	-	-	-	-	703,801
Other Debt Financing	9302	-	-	-	8,500,000	-	-	-	-	-	-	8,500,000
PFFA Lease Revenue Bonds 2015A-Projects	400859	2,153,810	-	-	-	-	-	-	-	-	-	2,153,810
PFFA Lease Revenue Bonds 2015B-Project	400860	1,476,896	-	-	-	-	-	-	-	-	-	1,476,896
PFFA Lease Revenue Refunding Bonds 2013A - Project	400853	597,094	-	-	-	-	-	-	-	-	-	597,094
Rose & Tecolote Creek Water Quality	400631	183,284	-	-	-	-	-	-	-	-	-	183,284
SC-RDA Contribution to CIP Fund	200353	98,174	-	-	-	-	-	-	-	-	-	98,174
Unidentified Funding	9999	-	-	-	-	-	-	-	-	-	1,043,016,216	1,043,016,216
Total		\$ 24,348,062	\$ 2,987,570	\$ -	\$ 31,875,582	\$ 21,562,251	\$ -	\$ 49,000,000	\$ -	\$ -	\$ 1,043,016,216	\$ 1,172,789,682

Unfunded Needs List

Stormwater

Project	Project Total	Unidentified Funding	Percent Unfunded	Description
Drainage Projects / ACA00001	\$ 409,144,262	\$ 217,200,564	53.09 %	This annual allocation provides for restructuring or replacing failed drainage facilities citywide. The unidentified funding amount reflects the estimated funding to address the deferred capital needs of the City's General Fund supported drainage projects for the next five fiscal years based on condition assessments.
Watershed CIP / ACC00001	\$ 1,172,789,682	\$ 1,043,016,216	88.93 %	This annual allocation provides for the design and construction of watershed capital projects. These projects, in conjunction with non-structural water quality projects, address storm drain discharge water quality standards. The unidentified funding amount reflects the estimated funding to address the deferred capital needs of the City's General Fund supported watershed projects for the next five fiscal years.
Maple Canyon Storm Drain Upgrade / S20003	\$ 30,250,000	\$ 29,250,000	96.69 %	This project provides for realignment and abandonment of approximately 3,000 feet of existing 54-inch and 36-inch reinforced concrete pipe (RCP) with approximately 3,500 feet of new storm drains ranging from 4.5 feet to 8 feet (two barrels) in sizes. The project has identified sufficient funding to conduct a feasibility study. The planning, design, and construction phases are currently unfunded.
Total		\$ 1,289,466,780		