



LONG BEACH UTILITIES DEPARTMENT CAPITAL IMPROVEMENT PROGRAM (WATER/SEWER) FISCAL YEAR 2023/24

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LONG BEACH UTILITIES DEPARTMENT CAPITAL IMPROVEMENT PROGRAM (WATER & SEWER) FISCAL YEAR 2023/24

WATER FUND PROJECT BUDGETS (thousands)	
Fiscal Year	2023/24
Water Pipeline System Improvements	18,055
Reservoir/Treatment Plant System Improvements	11,841
Water Supply	9,797
Water System Improvements (Recycled Water)	222
Water Developer Projects	331
TOTAL FOR WATER FUND PROJECTS	40,246
SEWER FUND PROJECT BUDGETS (thousands)	
Fiscal Year	2023/24
Sewer Pipeline System Improvements	1,776
Sewer Lift Station Rehabilitations	2,662
Sewer Developer Projects	942
TOTAL FOR SEWER FUND PROJECTS	5,380
TOTAL CIP PROJECTS	45,626

LONG BEACH UTILITIES DEPARTMENT CAPITAL IMPROVEMENT PROGRAM FY 2023/24 WATER FUND PROJECTS

PROJECT CATEGORY: WATER PIPELINE SYSTEM IMPROVEMENTS

Project Description	Cost Estimate
Water Main Improvement Project 9: 4-D	2,287,000
POLB Water Main Transfer	620,000
Cathodic Protection Phase 6	1,968,900
Large Valve Replacement - Willow Street	2,201,700
Large Valve Replacement - Stearns & Orange	100,000
Large Valve Replacement - De Ora, Stearns, El Dorado	100,000
Cathodic Protection Phase 7	2,500,000
Water Main Lining Pilot Project	40,500
Water Main Improvement 3-B - San Gabriel Avenue & Willard Street	1,800,000
Alley Water Main Conversion - Pacific Avenue	2,796,000
Water Main Replacement - Spinnaker Bay Phase 2	186,800
Colorado Lagoon Open Channel - Potable Water Main Relocation	258,000
Water Main Improvement Project 1: 2-D and POF-4	599,300
Golden Avenue Water Main Replacement	1,335,800
Water Main Improvement Project 4: 3-A Ximeno Avenue	43,400
Water Main Improvement Project 2-C: LB Airport	165,800
Water Main Improvement Project POF-01	75,200
Water Main Improvement 4-C & POF-17 - Arbor St. & Locust Avenue	68,800
Water Main Bridge Crossing FY24/25	490,000
Water Main Bridge Repair Sites 1 and 21	14,800
Water Main Bridge Crossings Repair Sites 2, 3, 28, & 34	140,200
Water Main Improvement Project POF-03	186,775
Colorado Lagoon Open Channel - Reclaimed Water Main Relocation	1,968,900
TOTAL	\$18,054,975

SUMMARY:

The Long Beach Utilities Department (LBUD) potable water system consists of over 910 miles of transmission and distribution pipeline, and over 93,000 service connections. Additionally, LBUD owns and maintains over 35 miles of recycled water pipeline. LBUD has developed several programs to assess and develop improvement plans for our pipelines and appurtenances. These programs include water main improvement, large valve replacement, cathodic protection, and water main bridge crossing improvement. The large valve replacement program improves water system reliability and restores operational functionality. LBUD continues its effort on the Port's Water System Study to determine required improvements in preparation for transfer of ownership and maintenance to LBUD. LBUD's cathodic protection program will prevent corrosion and ensure prolonged dependability of the water system. LBUD's bridge crossing improvement program ensures the integrity, dependability, and prolonged life of

LONG BEACH WATER DEPARTMENT CAPITAL IMPROVEMENT PROGRAM FY 2022/23 WATER FUND PROJECTS

the water system, and the Water Main Bridge Master Plan identifies future projects for LBUD. LBUD's Water Main Lining Pilot Project explores trenchless methods and technologies for pipe rehabilitation and improvements. LBUD's water improvement program enhances water flow and quality, as well as ensuring sufficient fire flow capacity. As part of the LBUD's alley main conversion program, old mains in alleys are replaced with new mains in City streets, and the existing service laterals are relocated as part of the conversion. The Colorado Lagoon Open Channel – Potable and Reclaimed Main Relocations are pipeline relocation projects in conjunction with the City's Colorado Lagoon Improvement Project.





Capital Improvement Program FY 2023/24

Project: Water Main Improvement Project 9: 4-D

Fund: Water

Project Category: Pipeline System Improvements

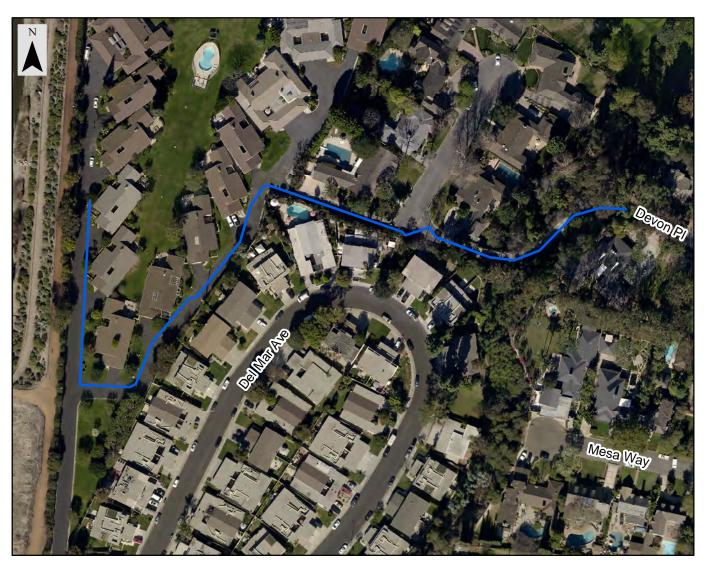
Project Description: This project will include replacing and upsizing existing 6-inch to 8-inch, including

associated services, valves, and fire hydrants.

Purpose: Improve fire flow protection and preserve water quality to the area.

Location: Devon Place, private alley, and Virginia Vista.

Council District: 5
Budget: \$76,000.00





Project: POLB Water Main Transfer

Fund: Water

Project Category: Water Pipeline System Improvements

Project Description: This project will include assessing and analyzing the identified transferable portion of the

Port's Water System. Also to deliver a proposed list of CIP and operational changes

to facilitate the transfer of this portion of the water system to LBWD.

Purpose: Transfer a portion of POLB water facilities to LBUD.

Location: POLB area Council District: 1 & 7 Budget: \$2,287,000.00





Project: Cathodic Protection Phase 6

Fund: Water

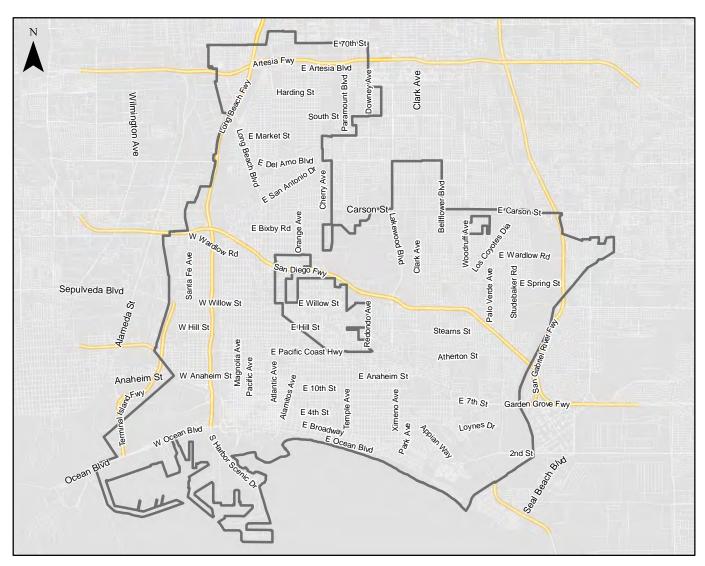
Project Category: Water Pipeline System Improvements

Project Description: This project will include installation of 9 cathodic protection (CP) test stations, anodes, and other components for the existing 20-inch (approx. 3,580-ft) and 30-inch (approx. 5,520-ft) steel cylinder cement

lined (SCC) potable water pipeline.

Purpose: Protect pipelines from corrosion.

Location: City Wide Council District: Various Budget: \$620,000.00





Capital Improvement Program FY 2023/24

Project: Large Valve Replacement - Willow Street

Fund: Water

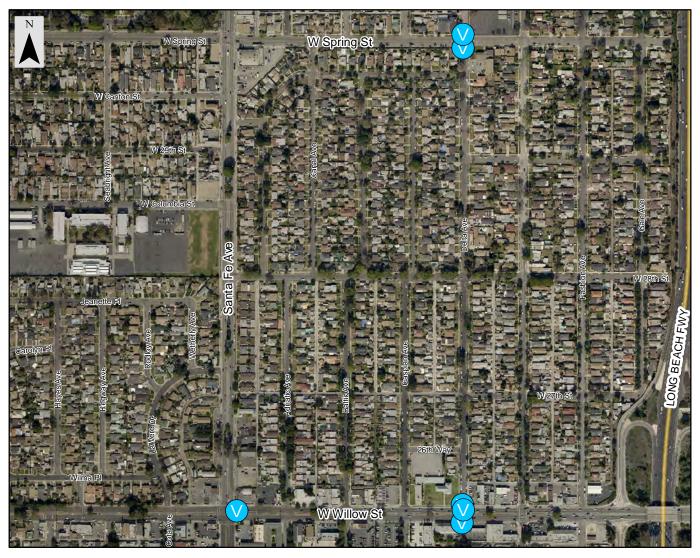
Project Category: Water Pipeline System Improvements

Project Description: Assess condition and repair/replace large valves at multiple locations in Long Beach

Purpose: Ensure the integrity, dependability, and prolonged life of the water system.

Location: Willow Street and Delta Avenue

Council District: 7
Budget: \$1,968,900.00





FY 2023/24

Project: Large Valve Replacement Stearns & Orange

Fund: Water

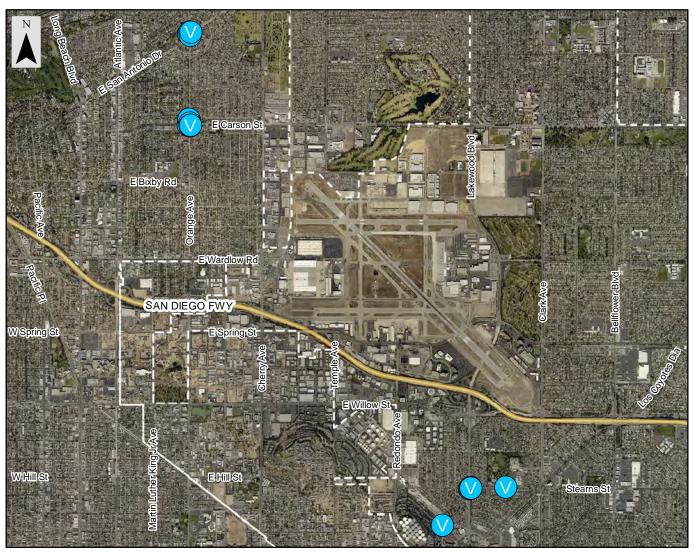
Project Category: Water Pipeline System Improvements

Project Description: Assess condition and repair/replace large valves at multiple locations in Long Beach

Purpose: Ensure the integrity, dependability, and prolonged life of the water system.

Location: Orange Avenue and Carson Street

Council District: 4 and 8 Budget: \$2,201,700.00





Capital Improvement Program FY 2023/24

Project: Large Valve Replacement De Ora, Stearns, El Dorado

Fund: Water

Project Category: Water Pipeline System Improvements

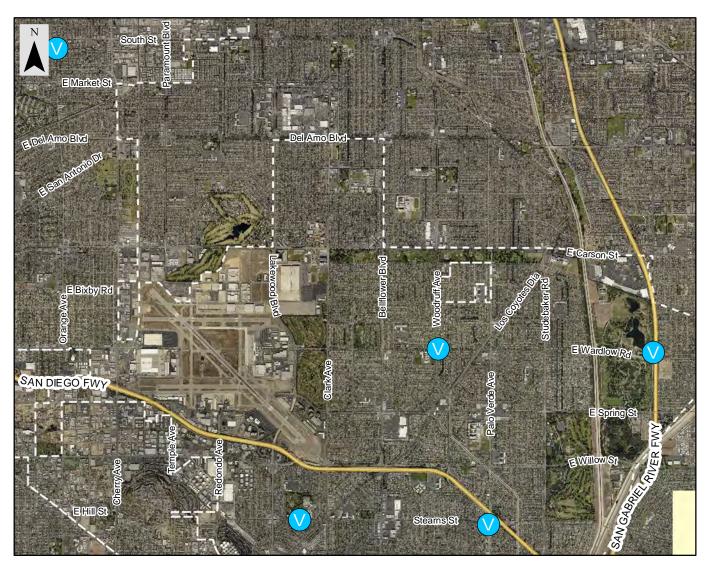
Project Description: Assess condition and repair/replace large valves at multiple locations in Long Beach.

Purpose: Ensure the integrity, dependability, and prolonged life of the water system.

Location: De Ora Way, Palo Verde Avenue, Orange Avenue, El Dorado Park, and Wardlow Road

Council District: 4, 5, & 8

Budget: \$100,000.00





Project: Cathodic Protection Phase 7

Fund: Water

Project Category: Water Pipeline System Improvements

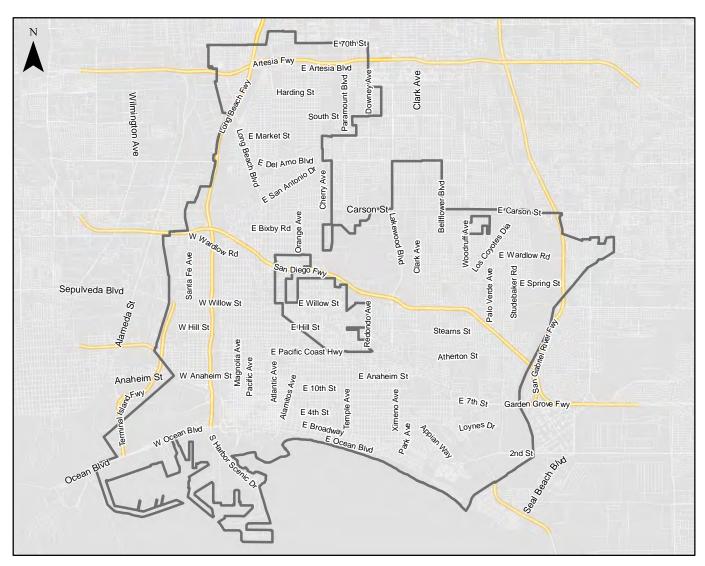
Project Description: This project will include design of installation of cathodic protection (CP) test stations,

anodes, and other components of existing mains.

Purpose: Protect pipelines from corrosion.

Location: TBD

Council District: TBD Budget: \$100,000.00





Project: Water Main Lining Pilot Project

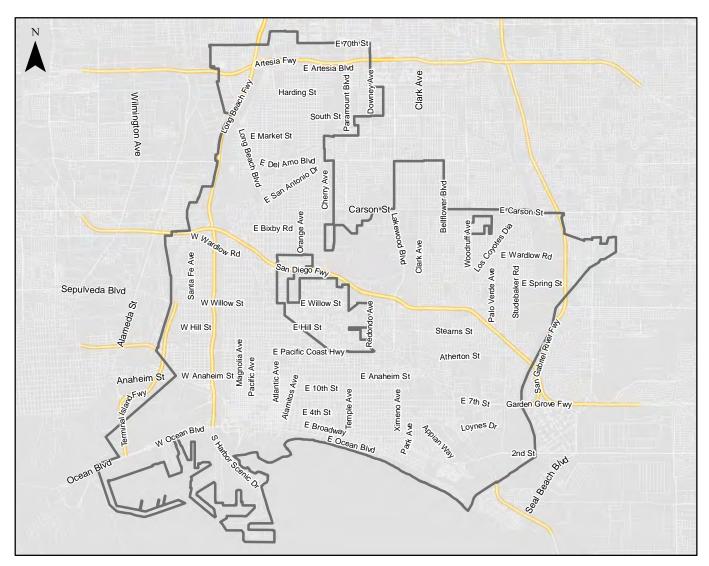
Fund: Water

Project Category: Water Pipeline System Improvements

Project Description: Pilot project rehabilitate 6-inch cast iron main by means of water main lining.

Purpose: Pilot project rehabilitate 6-inch cast iron main by means of water main lining

Location: City-wide Council District: Various Budget: \$2,500,000.00





Capital Improvement Program FY 2023/24

Project: Water Main Improvmenet Project 3-B - San Gabriel Avenue & Willard Street

Fund: Water

Project Category: Pipeline System Improvements

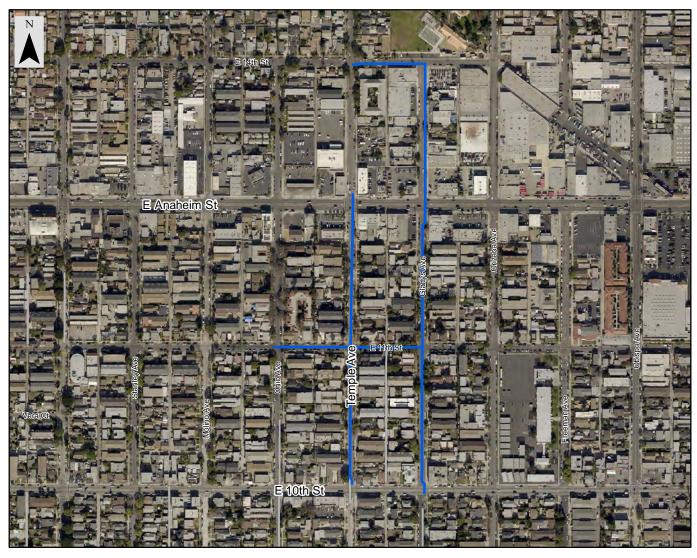
Project Description: This project includes 4,640 linear feet of 8-inch and 12-inch DIP, including associated

services, valves, and fire hydrants.

Purpose: Improve fire flow protection and preserve water quality to the area.

Location: San Gabriel Avenue and Willard Street

Council District: 2 Budget: \$40,500.00





Capital Improvement Program FY 2023/24

Project: Alley Water Main Conversion - Pacific Avenue

Fund: Water

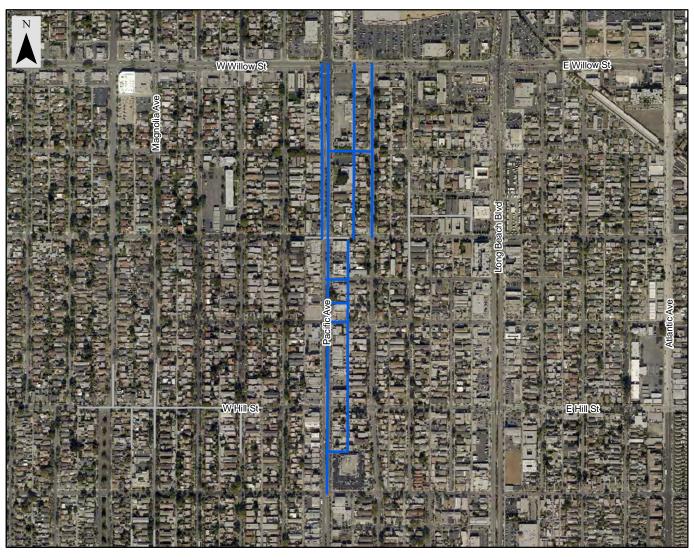
Project Category: Pipeline System Improvements

Project Description: This project will include replacing cast iron mains with ductile iron pipes, and constructing

water service laterals to the new water mains moved from alleys to streets.

Purpose: Improve fire flow protection and preserve water quality to the area.

Location: Pacific Avenue Council District: 6 Budget: \$1,800,000.00





Capital Improvement Program FY 2023/24

Project: Water Main Replacement - Spinnaker Bay Phase 2

Fund: Water

Project Category: Pipeline System Improvements

Project Description: Removal and replacement of 2465 LF of 6-in, 8-in, and 12-in ductile iron pipeline main with

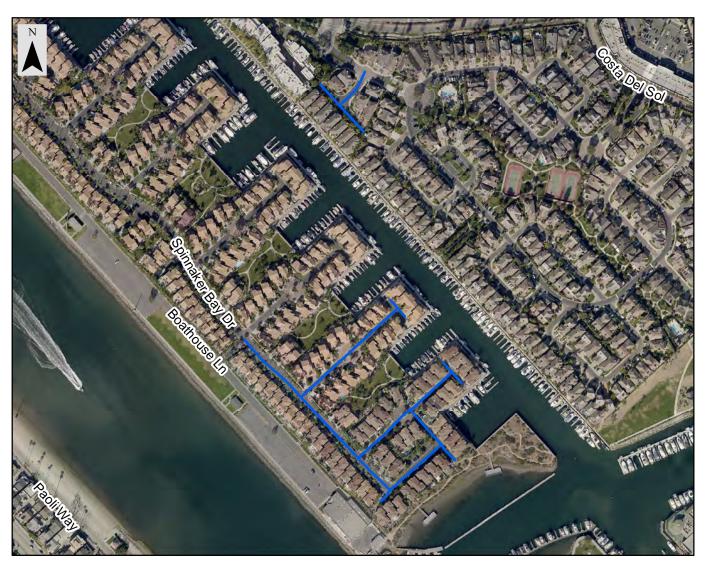
PVC pipeline main.

Purpose: Mitigate impacts caused from corrosion in ductile iron pipe following multiple leaks in the area over a

small timeframe.

Location: Spinnaker Bay Drive

Council District: 3
Budget: \$2,796,000.00





Capital Improvement Program FY 2023/24

Project: Colorado Lagoon Open Channel - Potable Water Main Relocation

Fund: Water

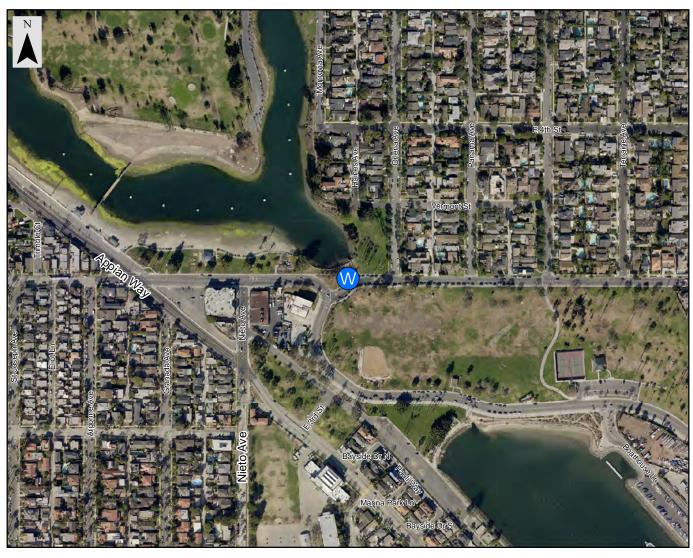
Project Category: Water Pipeline System Improvements

Project Description: Water Main relocation as part of LBPW's Colorado Lagoon Construction.

Purpose: Water main relocation as part of LBPW's Colorado Lagoon Construction.

Location: Colorado Lagoon

Council District: 3
Budget: \$186,800.00





Capital Improvement Program FY 2023/24

Project: Water Main Improvement Project 1: 2-D and POF-4

Fund: Water

Project Category: Pipeline System Improvements

Project Description: This project will construct a new 12-inch main and replace existing 6-inch 8-inch and 12-

inch within LB Airport property and on Spring St.

Purpose: Improve fire flow protection and preserve water quality to the area.

Location: Spring Street Council District: 4 & 5 Budget: \$258,000.00





Capital Improvement Program FY 2023/24

Project: Golden Avenue Water Main Replacement

Fund: Water

Project Category: Pipeline System Improvements

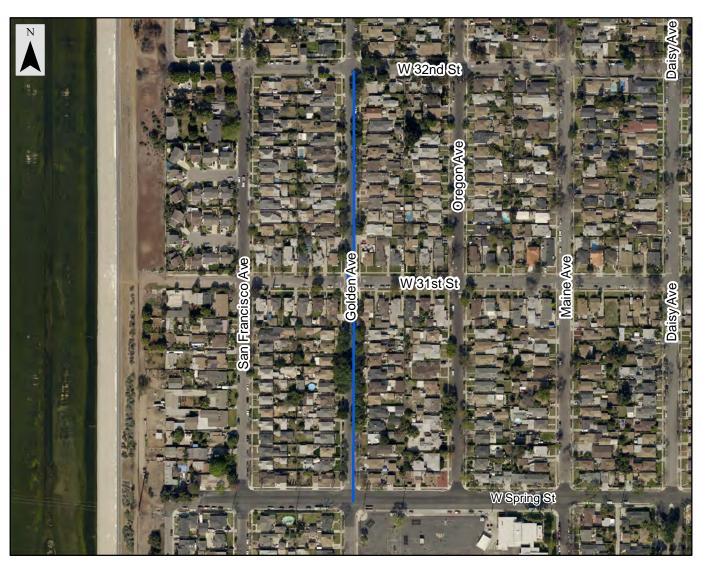
Project Description: This project will include replacing existing ductile iron mains with PVC C-900 pipes and

constructing nonmetallic water service laterals to the new water mains moved from the old main.

Purpose: Improve fire flow protection and preserve water quality to the area.

Location: Golden Avenue between Spring Street and 32nd Street

Council District: 7
Budget: \$599,300.00





Capital Improvement Program FY 2023/24

Project: Water Main Improvement Project 4: 3-A Ximeno Avenue

Fund: Water

Project Category: Pipeline System Improvements

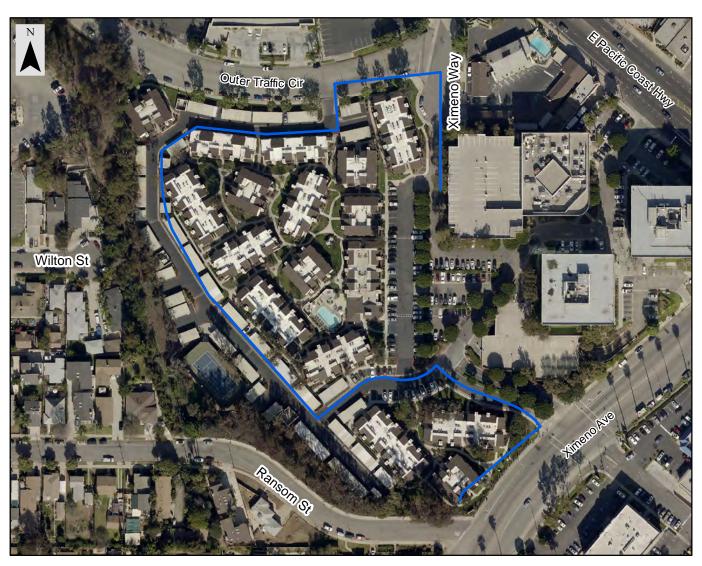
Project Description: Project will upsize approximately 1,786 LF of existing 6" potable main to 8" in addition to

necessary fire hydrant and appurtenances.

Purpose: Improve fire flow protection and preserve water quality to the area

Location: Ximeno Avenue, Outer Traffic Circle, Ransom Street, and Ximeno Way

Council District: 3
Budget: \$1,335,800.00





Capital Improvement Program FY 2023/24

Project: Water Main Improvement Project 2-C: LB Airport

Fund: Water

Project Category: Pipeline System Improvements

Project Description: This project will upzie the existing 8-inch with a 12-inch (Approximately 6,800-ft) within the

LB Aiport property.

Purpose: Improve fire flow protection and preserve water quality to the area.

Location: LB Airport **Council District:** 5 **Budget:** \$43,400.00





Capital Improvement Program FY 2023/24

Project: Water Main Improvement Project POF-01

Fund: Water

Project Category: Pipeline System Improvements

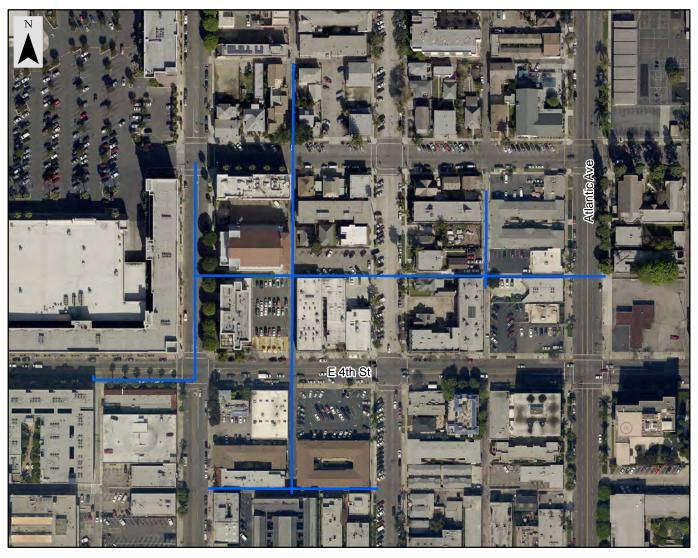
Project Description: This project will include replacing cast iron and AC mains with ductile iron pipes, and

constructing water service laterals to the new water mains moved from the old mains.

Purpose: Improve fire flow protection and preserve water quality to the area.

Location: The area E/O Elm Avenue and W/O Atlantic Avenue, N/O E. Melrose Way, and S/O 7th Street

Council District: 1
Budget: \$165,800.00





Capital Improvement Program FY 2023/24

Project: Water Main Improvement Project 4-C & POF-17 - Arbor Street & Locust Avenue

Fund: Water

Project Category: Pipeline System Improvements

Project Description: This project will include replacement and upsize of approximately 1,720-ft of existing 6" DIP

and AC with 8" DIP, and construction of approximately 625-ft of new 8" DIP.

Purpose: Improve hydrualic deficiencies and preserve water quality to the area.

Location: Arbor Street and Locust Avenue

Council District: 8
Budget: \$75,200.00





Project: Water Main Bridge Crossing FY24/25

Fund: Water

Project Category: Water Pipeline System Improvements

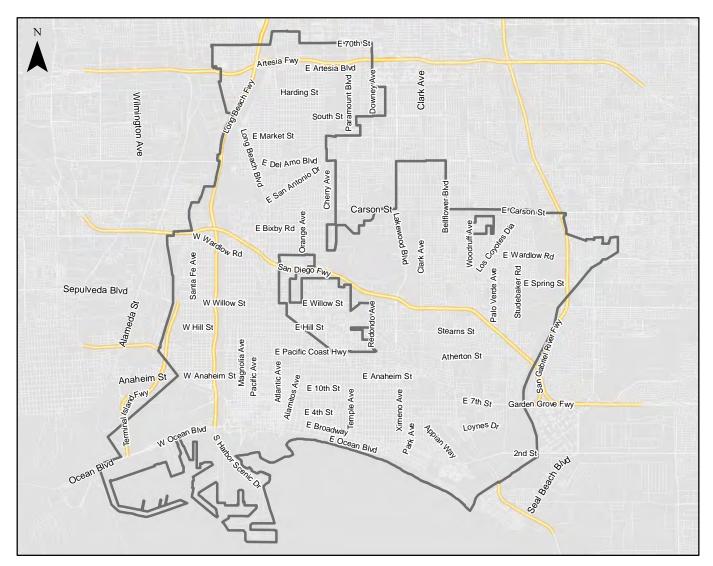
Project Description: This project will include remove and replace coating of water line at bridge crossing.

Purpose: Extend pipeline life by removing exterior paint system and apply new paint system

Location: Various locations of City of Long Beach

Council District: Various

Budget: \$68,800.00





Project: Water Main Bridge Repair Sites 1 and 21

Fund: Water

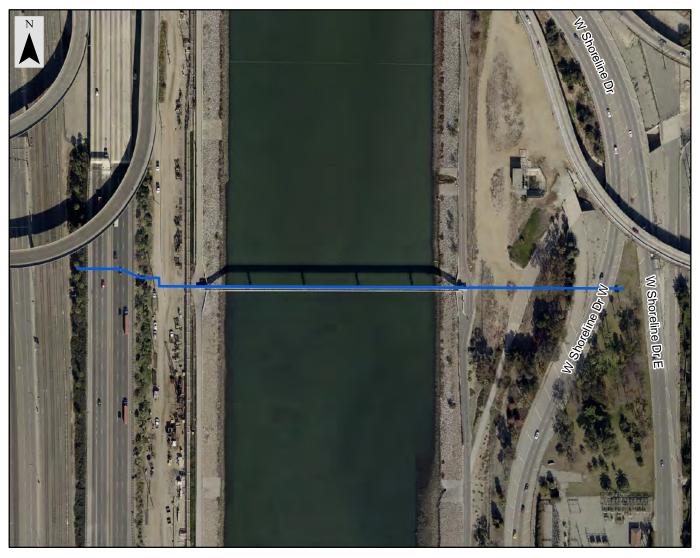
Project Category: Pipeline System Improvements

Project Description: This project will include remove and replace coating of water line at bridge crossing.

Purpose: Extend pipeline life by removing exterior paint system and apply new paint system.

Location: Los Angeles River and 6th Street, and Anaheim Road and Los Cerritos Channel

Council District: 1 & 7 Budget: \$490,000.00





Project: Water Main Bridge Crossings Repair Sites 2, 3, 28, & 34

Fund: Water

Project Category: Water Pipeline System Improvements

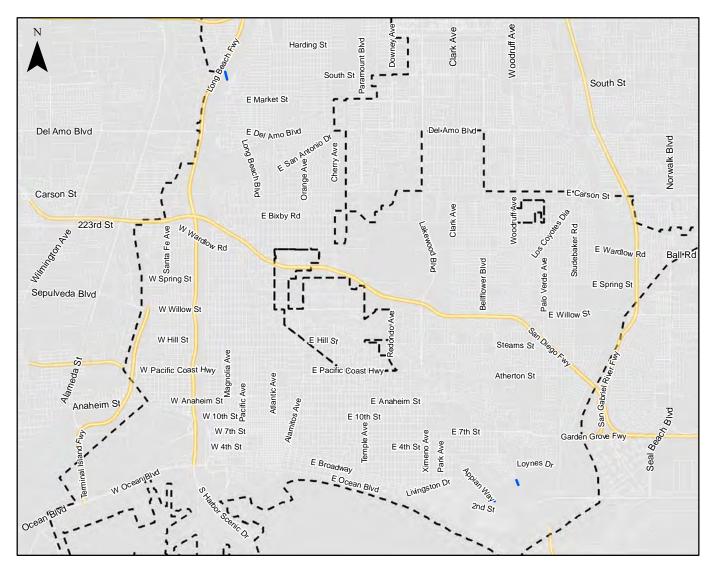
Project Description: This project will include remove and replace coating of water line at bridge crossing.

Purpose: Extend pipeline life by removing exterior paint system and apply new paint system.

Location: Bridges over LA River at Long Beach Boulevard and W. Anaheim St and Appian Way in Alamitos Bay

Council District: City Wide

Budget: \$14,800.00





Capital Improvement Program FY 2023/24

Project: Water Main Improvement Project POF-03

Fund: Water

Project Category: Pipeline System Improvements

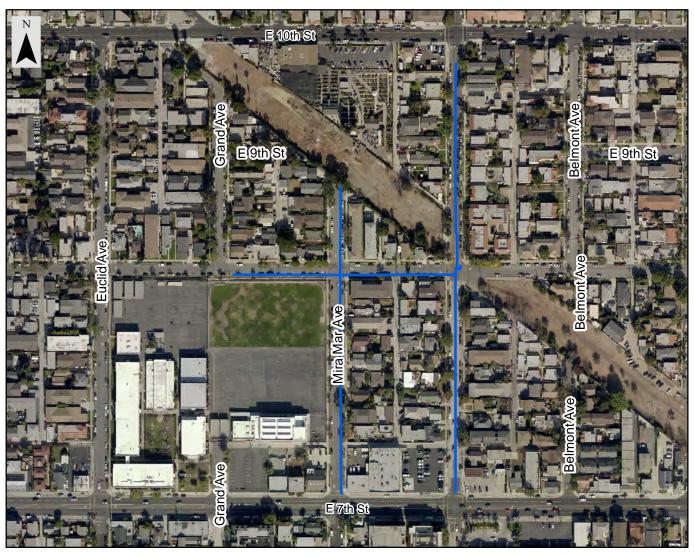
Project Description: This project will include replacement of approximately 2,750-ft of various main sizes

between 4" to 8".

Purpose: Improve hydrualic deficiencies and preserve water quality to the area.

Location: Mira Mar Avenue and Termino Avenue

Council District: 3
Budget: \$140,200.00





Capital Improvement Program FY 2023/24

Project: Colorado Lagoon Open Channel - Reclaimed Water Main Relocation

Fund: Water

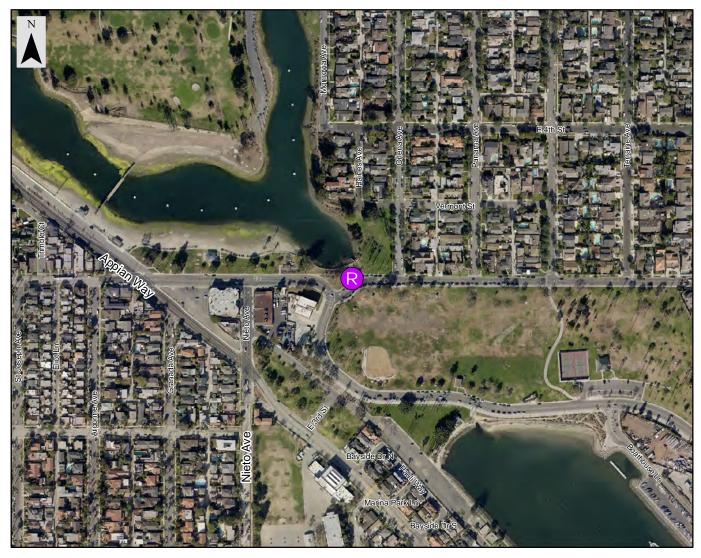
Project Category: Water Pipeline System Improvements

Project Description: Recycled water main relocation as part of LBPW's Colorado Lagoon Renovation.

Purpose: Recycled water main relocation as part of LBPW's Colorado Lagoon Renovation

Location: Colorado Lagoon

Council District: 3
Budget: \$186,775.00



LONG BEACH UTILITIES DEPARTMENT CAPITAL IMPROVEMENT PROGRAM FY 2023/24 WATER FUND PROJECTS

PROJECT CATEGORY: RESERVOIR/TREATMENT PLANT SYSTEM IMPROVEMENTS

Project Description	Cost Estimate
Reservoir Valve Replacement Project	7,500
Groundwater Treatment Plant Lab/Ops Building HVAC System	5,043,000
Groundwater Treatment Plant Filter Gallery Improvement Project Ph. 1	2,614,100
Alamitos Tank 7 Rehabilitation	20,900
Alamitos Tanks 8 & 10 Rehabilitation	32,200
JWJ Chemical Dosing System	1,814,800
Alamitos Tanks 11 & 13 Rehabilitation	1,033,100
Alamitos Tank 22 Rehabilitation	373,200
J. Will Johnson Tanks Roof Repair	497,000
Groundwater Treatment Plant Booster Pump Station Rehabilitation	316,100
Groundwater Treatment Plant Chemical Facility Improvement Project	88,800

TOTAL \$11,840,700

SUMMARY:

The Long Beach Utilities Department (LBUD) has a total of 36 steel water storage tanks at the Alamitos Reservoir and J. Will Johnson Reservoir. Each tank has a capacity of 3.3 million gallons of water. LBUD's tank rehabilitation program ensures the integrity, dependability, and prolonged life of these tanks. LBUD also operates the second largest groundwater treatment plant in the United States. The Treatment Plant Master Plan identifies improvement projects at the plant and related facilities and infrastructure which will ensure the City's high quality drinking water consistently meets or betters all Federal and State drinking water regulations.





Project: Reservoir Valve Replacement Project

Fund: Water

Project Category: Reservoir/Treatment Plant System Improvements

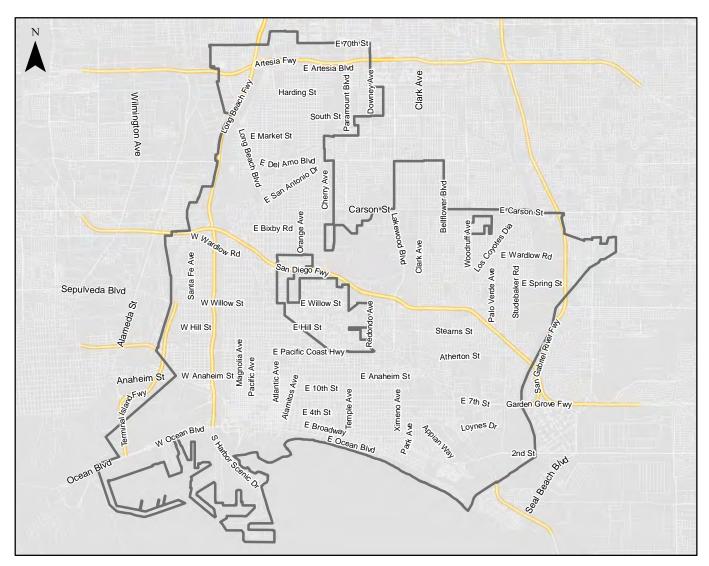
Project Description: Project to locate, identify, and quantify inoperable or defective wells at our Alamitos and J Wil Johnson Reservoirs, analyze locations where additional valves may be necessary for operational efficiency,

and then develop CIP for these improvements.

Purpose: Improvements to both reservoir sites.

Location: TBD

Council District: TBD Budget: \$222,100.00





Capital Improvement Program FY 2023/24

Project: GWTP Lab/Ops Building HVAC System

Fund: Water

Project Category: Reservoir/Treatment Plant System Improvements

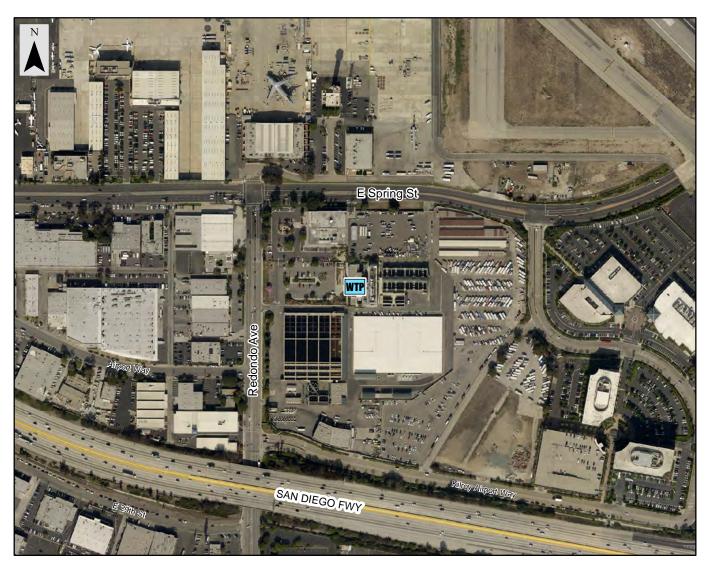
Project Description: This project will include modernizing the existing HVAC systems at the Groundwater

Treatment Plant.

Purpose: Ensure the integrity and dependability of water infrastructure.

Location: LBUD Groundwater Treatment Plant

Council District: 5
Budget: \$5,043,000.00





Capital Improvement Program FY 2023/24

Project: TP Filter Gallery Improvement Project Phase 1

Fund: Water

Project Category: Reservoir/Treatment Plant System Improvements

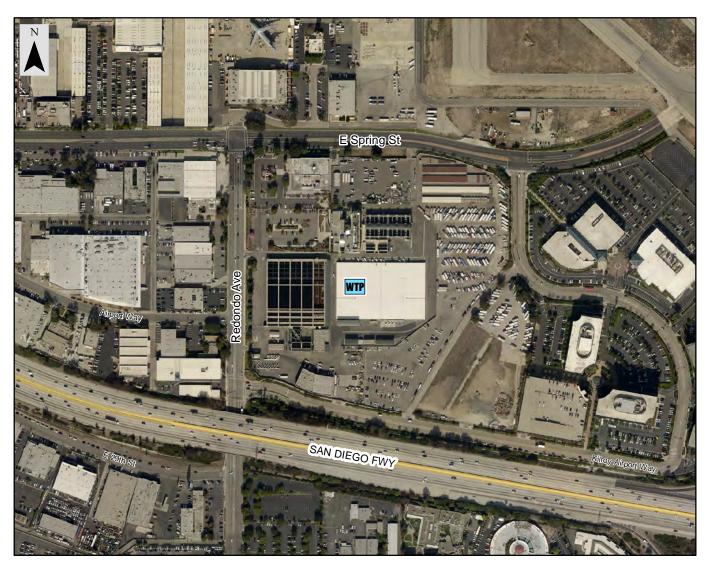
Project Description: This project will include replacing aging valves within the Groundwater Treatment Plant

filter gallery.

Purpose: Replace aging valves to ensure integrity and dependability of the filter gallery.

Location: LBUD Groundwater Treatment Plant

Council District: 5
Budget: \$2,614,100.00





Capital Improvement Program FY 2023/24

Project: Alamitos Tank 7 Rehabilitation

Fund: Water

Project Category: Reservoir/Treatment Plant System Improvements

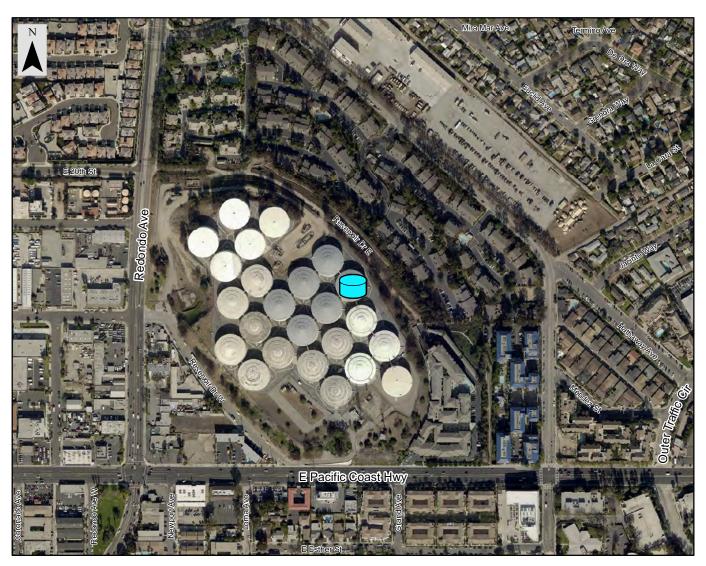
Project Description: This project will include recoating the tank and constructing seismic and structural

improvements.

Purpose: Ensure the integrity and dependability of water infrastructure.

Location: Alamitos Reservoir Site

Council District: 4
Budget: \$20,900.00





Capital Improvement Program FY 2023/24

Project: Alamitos Tanks 8 & 10 Rehabilitation

Fund: Water

Project Category: Water Supply

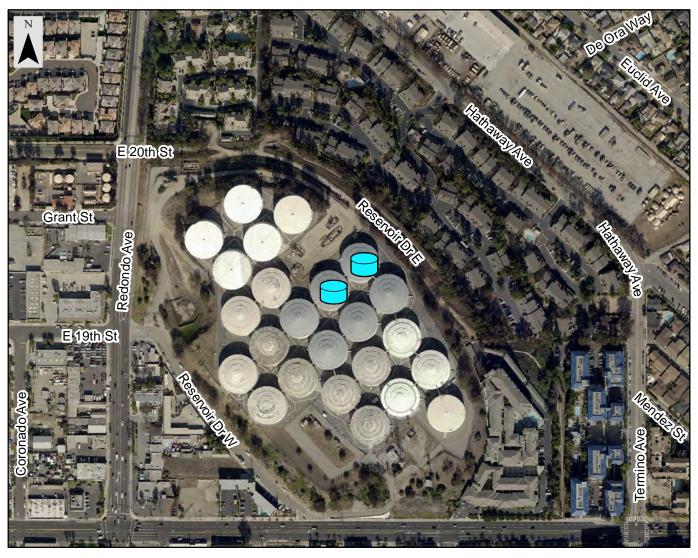
Project Description: This project will include recoating the tank and constructing seismic and structural

improvements.

Purpose: Ensure the integrity, dependability, and prolonged life of the water system.

Location: Alamitos Reservoir Site

Council District: 4
Budget: \$32,200.00





Project: JWJ Chemical Dosing System **Fund:** Water

Project Category: Reservoir/Treatment Plant System Improvements

Project Description: Evaluation of existing chemical feed systems at the JWJ Reservoir site and optimization and design of permanent chlorine and ammonia injection, including locating equipment and injection locations,

SCADA control, and identification of necessary equipment.

Purpose: Improvements to JWJ Reservoir's chemical feed system.

Location: J. Will Jonhson Reservoir Site

Council District: Budget: \$1,814,800.00





Capital Improvement Program FY 2023/24

Project: Alamitos Tanks 11 & 13 Rehabilitation

Fund: Water

Project Category: Reservoir/Treatment Plant System Improvements

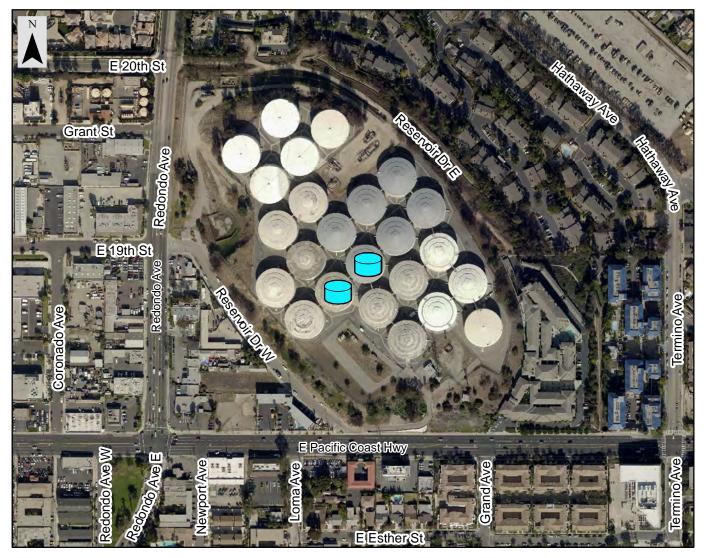
Project Description: This project will include recoating the tank and constructing seismic and structural

improvements.

Purpose: Ensure the integrity, dependability, and prolonged life of the water system.

Location: Alamitos Reservoir Site

Council District: 4
Budget: \$1,033,100.00





Capital Improvement Program FY 2023/24

Project: Alamitos Tank 22 Rehabilitation

Fund: Water

Project Category: Reservoir/Treatment Plant System Improvements

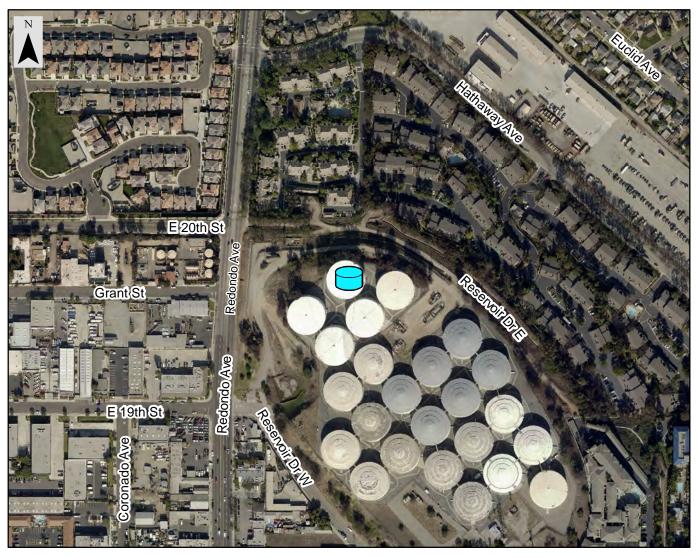
Project Description: This project will include recoating the tank and constructing seismic and structural

improvements. It will also convert from potable to recycled water storage.

Purpose: Ensure the integrity and dependability of water infrastructure.

Location: Alamitos Reservoir Site

Council District: 4
Budget: \$373,200.00





Capital Improvement Program FY 2023/24

Project: J. Will Johnson Tanks Roof Repair

Fund: Water

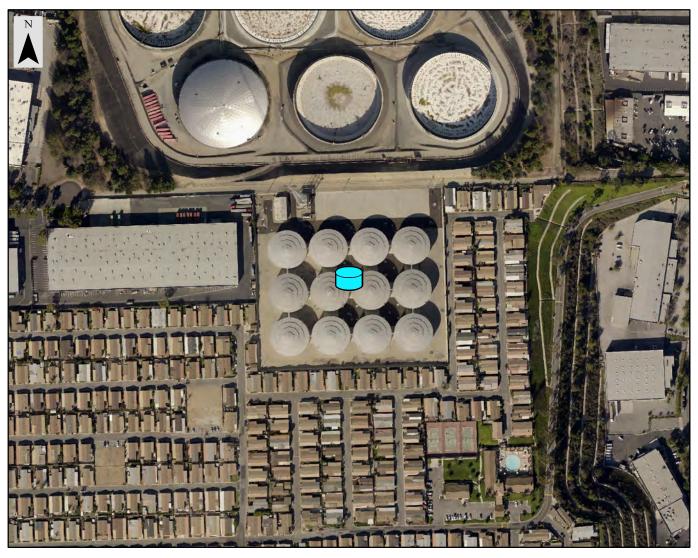
Project Category: Reservoir/Treatment Plant System Improvements

Project Description: This project will perfors critical roof repairs to four tanks at our J. Will Johnson Reservoir.

Purpose: This project will perfors critical roof repairs to four tanks at our J. Will Johnson Reservoir.

Location: JWJ Reservoir Site

Council District: Budget: \$497,000.00





Capital Improvement Program FY 2023/24

Project: GWTP Booster Pump Station Rehabilitation

Fund: Water

Project Category: Reservoir/Treatment Plant System Improvements

Project Description: This project will assess the Groundwater Treatment Plant's Booster Pump Station to

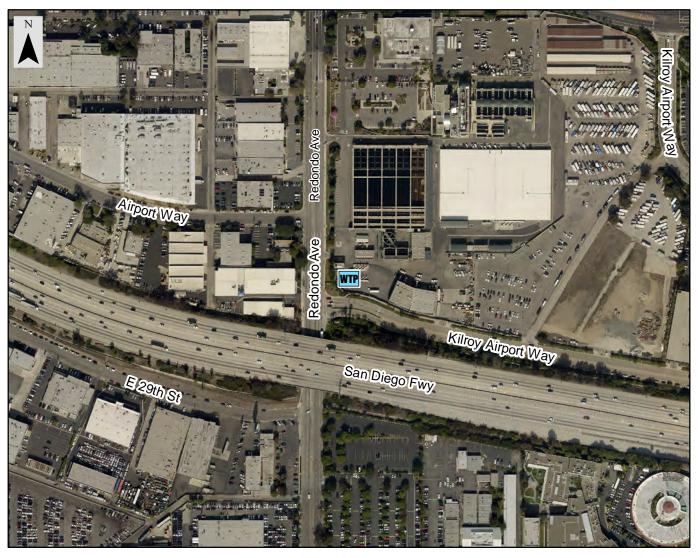
replace aging and defective equipment, optimize pumping operations, and increase capacity.

Purpose: This project will assess the Groundwater Treatment Plant's Booster Pump Station to replace aging and

defective equipment, optimize pumping operations, and increase capacity.

Location: LBUD Groundwater Treatment Plant

Council District: 5
Budget: \$316,100.00





Capital Improvement Program FY 2023/24

Project: GWTP Chemical Facility Improvement Project

Fund: Water

Project Category: Reservoir/Treatment Plant System Improvements

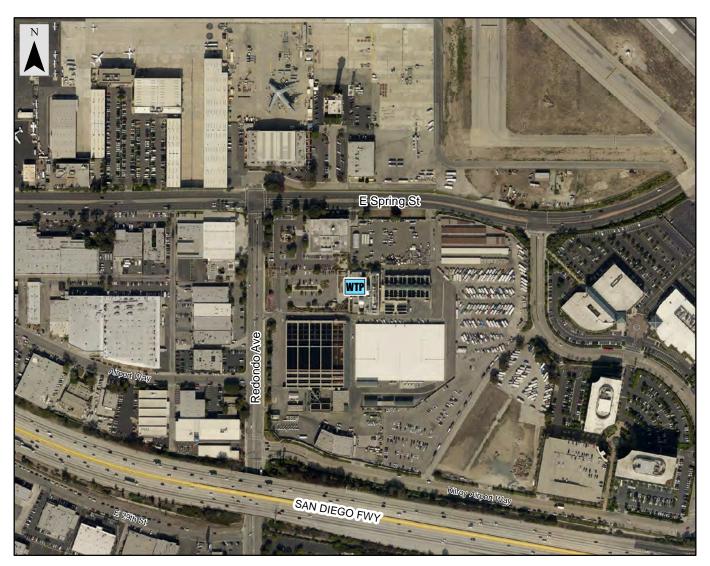
Project Description: Implement facility improvements identified in Groundwater Treatment Plant Improvement

Master Plan.

Purpose: Improve chemical facilities of GWTP and perform structural reinforcements

Location: LBUD Groundwater Treatment Plant

Council District: 5
Budget: \$88,800.00



LONG BEACH UTILITIES DEPARTMENT CAPITAL IMPROVEMENT PROGRAM FY 2023/24 WATER FUND PROJECTS

PROJECT CATEGORY: WATER SUPPLY PROJECTS

- 1100201 071120011 1171121 0011121 11002010	
Project Description	Cost Estimate
Rehab Wells Comm 15 and Comm 18	2,853,900
32nd Street Booster Pump Station	92,500
Well Rehab Com 14 & Citizen10	1,006,100
Rehab Wells Comm 24 & Comm 25	215,700
Rehab Wells Comm21 & Dev9	110,000
Wells Comm 16 and Comm 20 Misc Well Repair	0
Well Site Permitting	3,600
Well Citizens 7A Rehabilitation 2022	0
Groundwater Augmentation & Well Siting Study	726,000
Collection Main Relining Project - Cherry Avenue	148,500
West Coast Basin Well Equipment - Pump to Waste	162,100
West Coast Basin Well Equipment - Wellhead Treatment	68,200
Two New Wells NLB 13 and NLB 14	901,700
New Wells ALA 9A and ALA 14	1,242,200
LBUD 2021 New Wells Comm 23A & El Dorado 2	1,740,400
LBUD 2021 New Wells Citizens 8A & El Dorado 1	260,600
Two New Wells GWTP-1 and GWTP-2	265,200
TOTAL	¢0 700 700

TOTAL \$9,796,700

SUMMARY:

LBUD currently has 31 groundwater wells which produce approximately 29,000 Acre-Feet of water each year that is conveyed to LBUD's Ground Water Treatment Plant. LBUD's well rehabilitation and repair program aim to restore

wells to their most efficient production condition. LBUD's endeavors include 12 new well projects as part of a long-term strategy to supplement LBWD's water supply and meet future demands. The efforts will include well-site siting study and well permitting. Improvements to the 32nd Street Booster Station will ensure dependability of the facility for water distribution to the boosted area. The Collection Main Relining Project mainly along Cherry Avenue will improve pipeline reliability. The maintenance of the collection water pipeline is very critical to ensure it can accommodate the expected increase in local groundwater production.





FY 2023/24

Project: Rehab Wells Comm 15 and Comm 18

Fund: Water

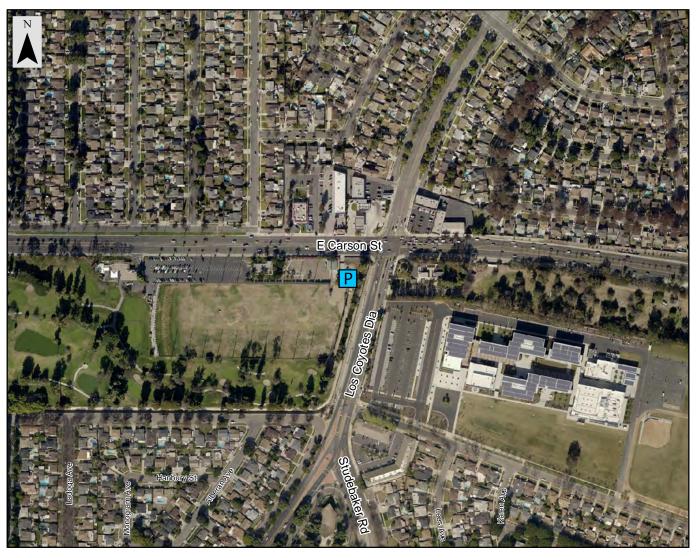
Project Category: Water Supply

Project Description: This project will include rehabilitating groundwater production well.

Purpose: Restore a well to its most efficient condition.

Location: COM-15 - 5501 Parkcrest Street and COM-18 - 6682 Carson Street

Council District: 5
Budget: \$2,853,900.00





Capital Improvement Program FY 2023/24

Project: 32nd Street Booster Pump Station

Fund: Water

Project Category: Water Supply

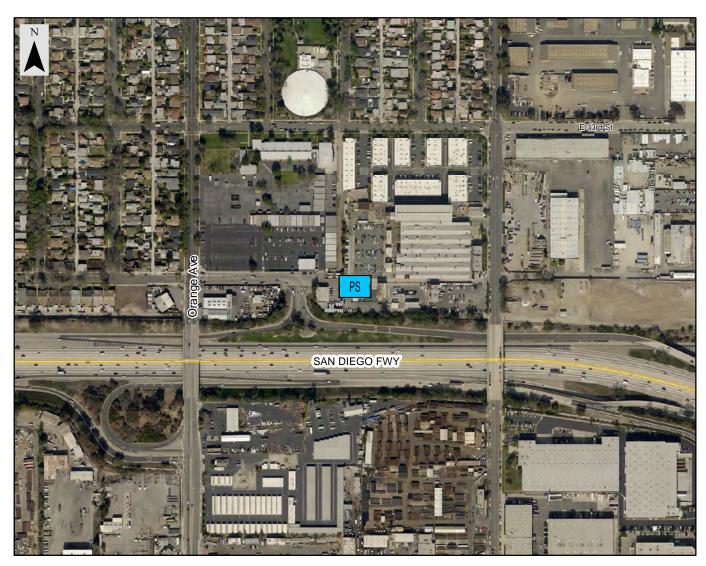
Project Description: This project will include assessing and performing necessary improvement to the existing

32nd Street Booster Pump Station.

Purpose: Ensure the integrity and dependability of water infrastructure.

Location: 1420 E. 32nd Street

Council District: 7
Budget: \$92,500.00





Project: Well Rehab Com 14 & Citizen10

Fund: Water

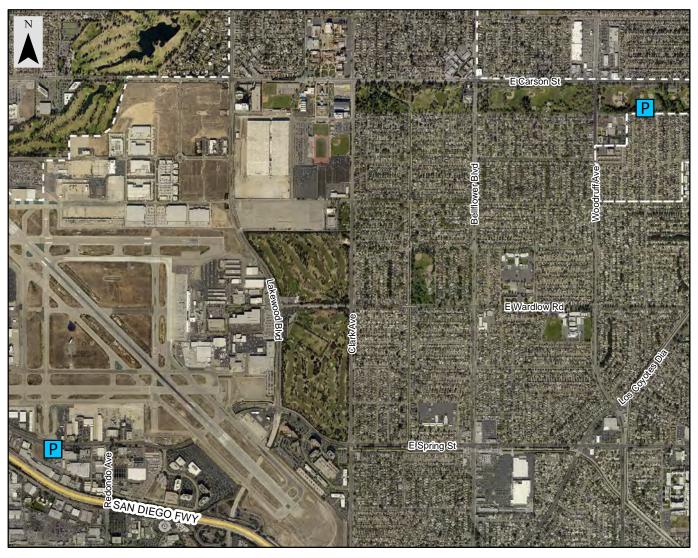
Project Category: Water Supply

Project Description: This project will include rehabilitating groundwater production well.

Purpose: Restore a well to its most efficient condition.

Location: 2939 Airport Way, corner of Spring Street and Airport Way

Council District: 5
Budget: \$1,006,100.00





Capital Improvement Program FY 2023/24

Project: Rehab Wells Comm 24 & Comm 25

Fund: Water

Project Category: Water Supply

Project Description: This project will include rehabilitating groundwater production well.

Purpose: Restore a well to its most efficient condition.

Location: 3942 Clark Avenue, south of Carson Street

Council District: 5
Budget: \$215,700.00





FY 2023/24

Project: Rehab Wells Comm 21 & Dev9

Fund: Water

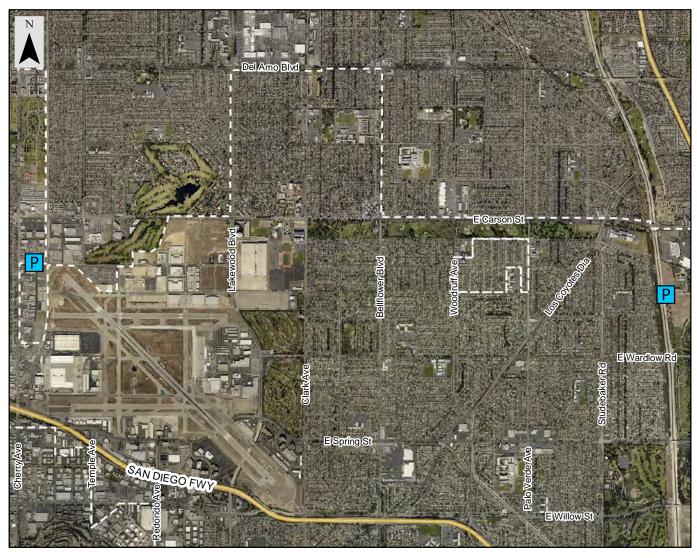
Project Category: Water Supply

Project Description: This project will include rehabilitating groundwater production well.

Purpose: Restore a well to its most efficient condition.

Location: El Dorado Park and the intersection of Cover St and Industry Ave.

Council District: 5 and 7 Budget: \$110,000.00





FY 2023/24

Project: Wells Comm 16 and Comm 20 Misc Well Repair

Fund: Water

Project Category: Water Supply

Project Description: This project will include rehabilitating groundwater production well.

Purpose: Restore a well to its most efficient condition.

Location: El Dorado Park

Council District: 5
Budget: \$0.00





Project: Well Site Permitting

Fund: Sewer

Project Category: Water Supply

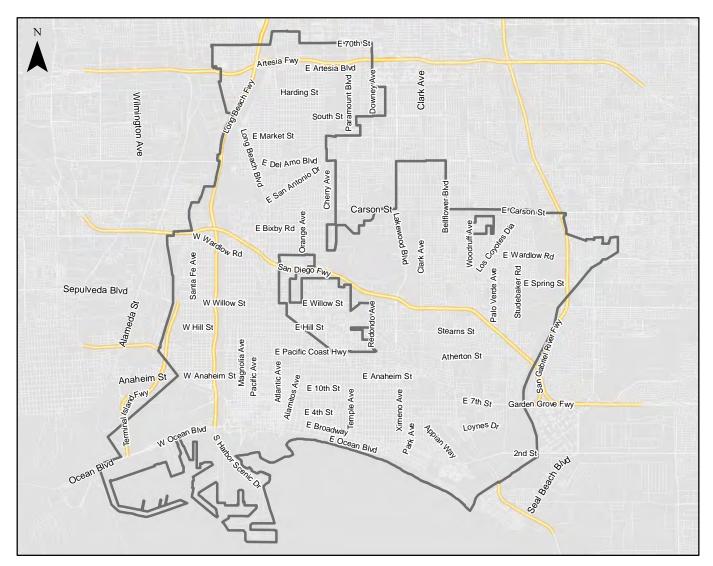
Project Description: This project will include studies and gathering of information to qualify for DDW

requirements for new well permits.

Purpose: This project follows up the well sites that have been selected in the Well Siting Study 2020.

Location: City-wide
Council District: Various

Budget: \$3,600.00





FY 2023/24

Project: Well Citizens 7A Rehabiliation 2022

Fund: Water

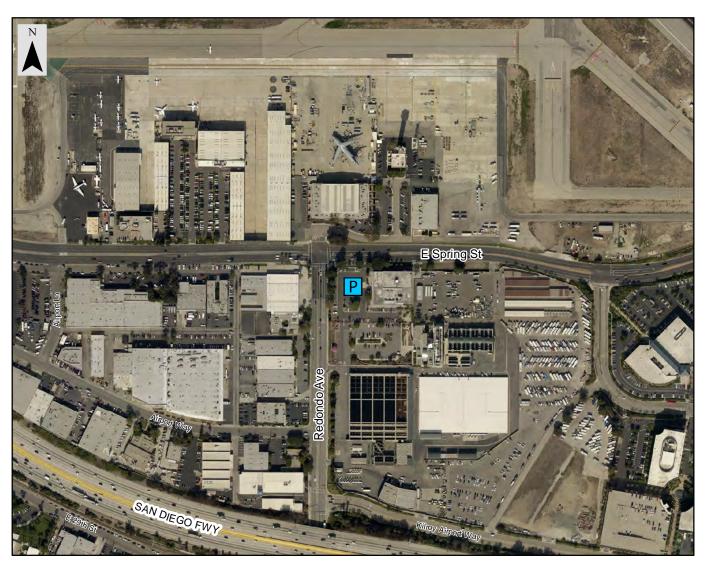
Project Category: Water Supply

Project Description: This project will include rehabilitating groundwater production well.

Purpose: Restore a well to its most efficient condition.

Location: 2990 Redondo Avenue (Emergency Communications and Operations Center)

Council District: 5
Budget: \$0.00





FY 2023/24

Project: Groundwater Augmentation & Well Siting Study

Fund: Water

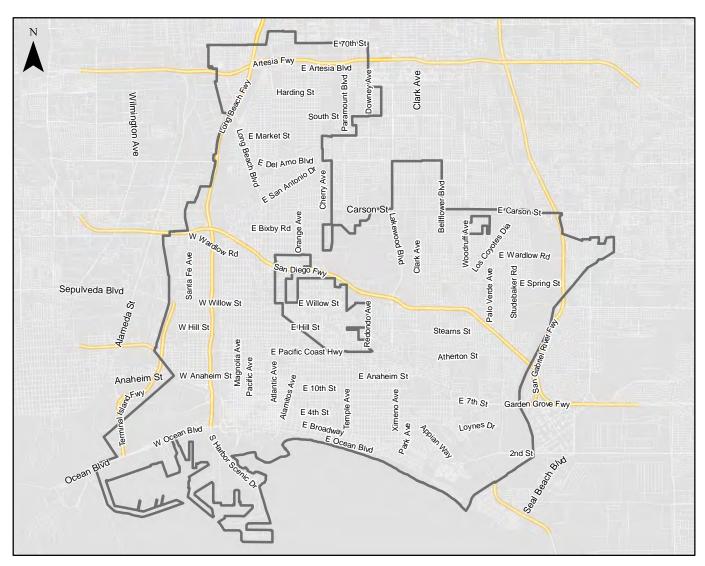
Project Category: Water Supply

Project Description: Evaluate the feasibility of using advanced treated recycled water for groundwater aquifer injection. It also includes updating models, assessing conditions, preparing a capital improvement list, and conducting a well siting study for both basins.

Purpose: Promote sustainable groundwater pumping practices out of existing and proposed Long Beach

groundwater production wells.

Location: City-Wide Council District: TBD Budget: \$726,000.00





Capital Improvement Program FY 2023/24

Project: Collection Main Relining Project - Cherry Avenue

Fund: Water

Project Category: Water Supply

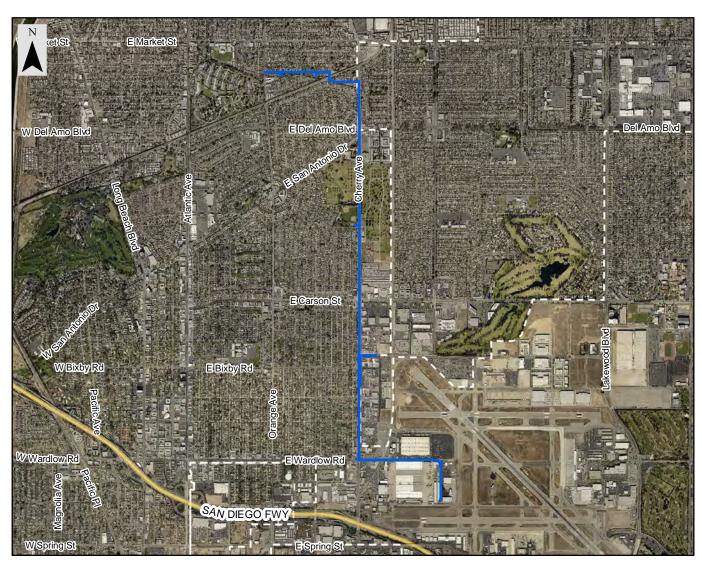
Project Description: This project will reline the existing well collection line in Cherry Ave to prepare for additional

flows from new wells upstream of this pipeline.

Purpose: Extend the useful life of this segment of collection main

Location: Jackson Street, Cherry Avenue, and Wardlow Road

Council District: 5 & 8 Budget: \$148,500.00





Capital Improvement Program FY 2023/24

Project: West Coast Basin Well Equipment - Pump to Waste

Fund: Water

Project Category: Water Supply

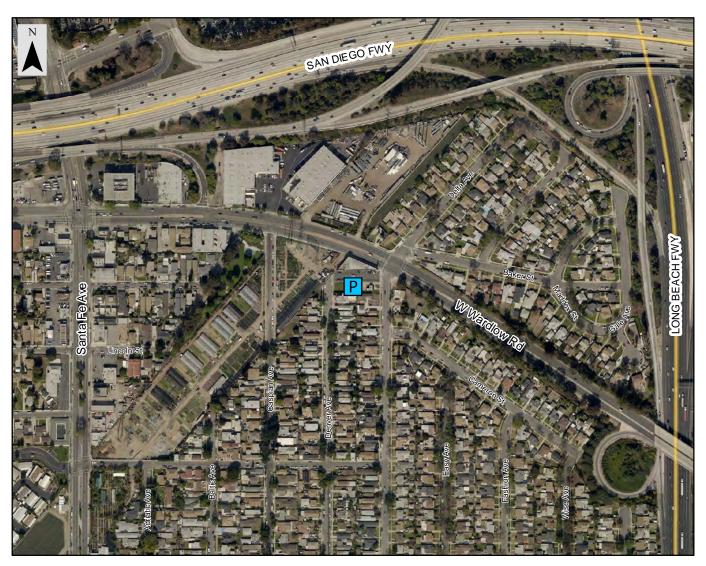
Project Description: This project will include drilling, developing and equipping new groundwater production

wells.

Purpose: Ensure future groundwater production.

Location: LBUD Groundwater Treatment Plant

Council District: 7
Budget: \$162,100.00





Capital Improvement Program FY 2023/24

Project: West Coast Basin Well Equipment - Wellhead Treatment

Fund: Water

Project Category: Water Supply

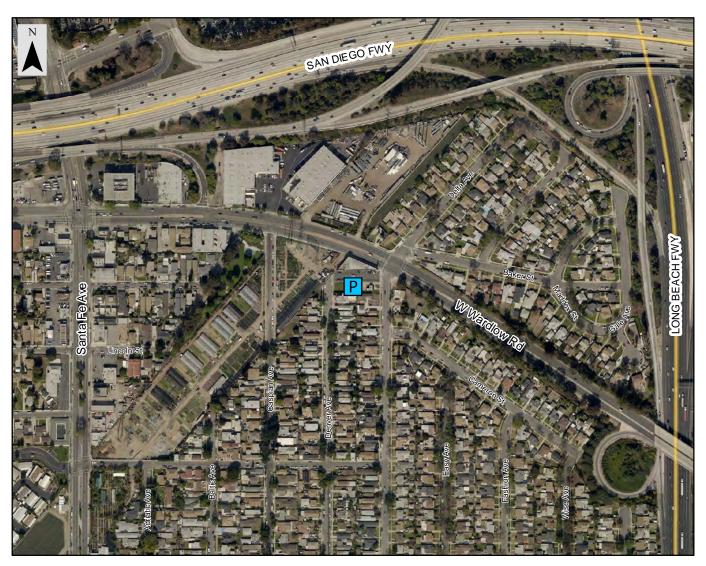
Project Description: This project will include drilling, developing and equipping new groundwater production

wells.

Purpose: Ensure future groundwater production.

Location: LBUD Groundwater Treatment Plant

Council District: 7
Budget: \$68,200.00





Capital Improvement Program FY 2023/24

Project: Two New Wells NLB 13 and NLB 14

Fund: Water

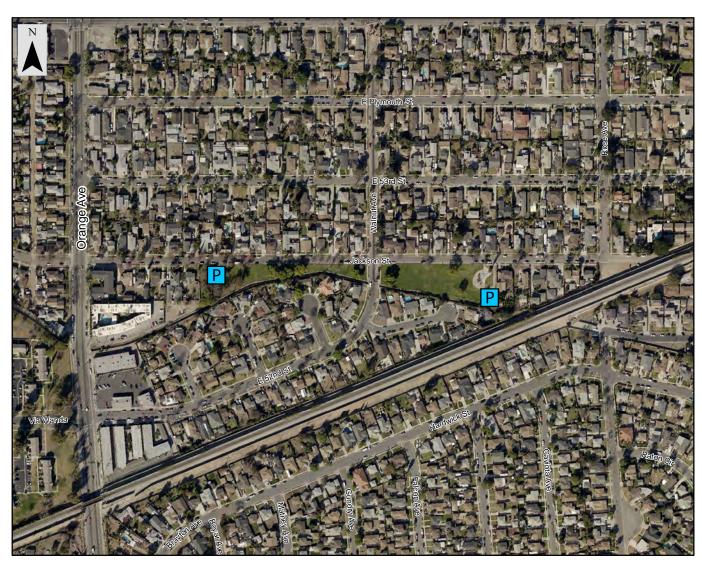
Project Category: Water Supply

Project Description: This project will include drilling, developing and equipping new groundwater production

wells.

Purpose: Ensure future groundwater production.

Location: Jackson Park Council District: 8 Budget: \$901,700.00





Capital Improvement Program FY 2023/24

Project: New Wells ALA 9A and ALA 14

Fund: Water

Project Category: Water Supply

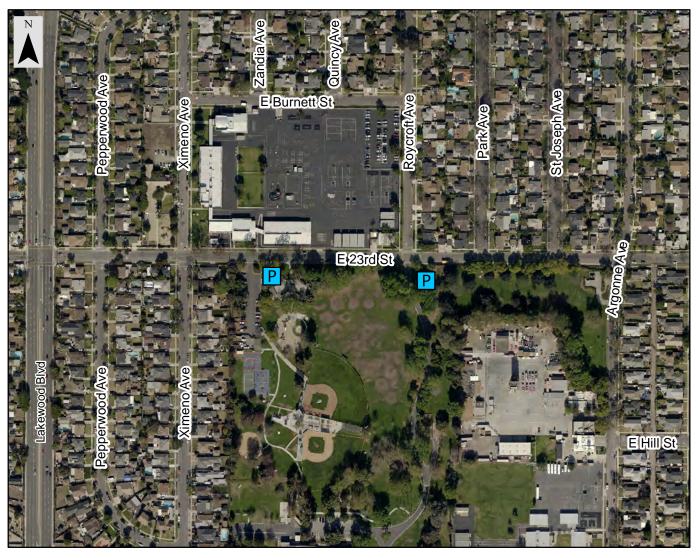
Project Description: This project will include drilling, developing and equipping new groundwater production

wells.

Purpose: Ensure future groundwater production.

Location: Stearns Champion Park

Council District: 4
Budget: \$1,242,200.00





Capital Improvement Program FY 2023/24

Project: LBUD 2021 New Wells Comm 23A & El Dorado 2

Fund: Water

Project Category: Water Supply

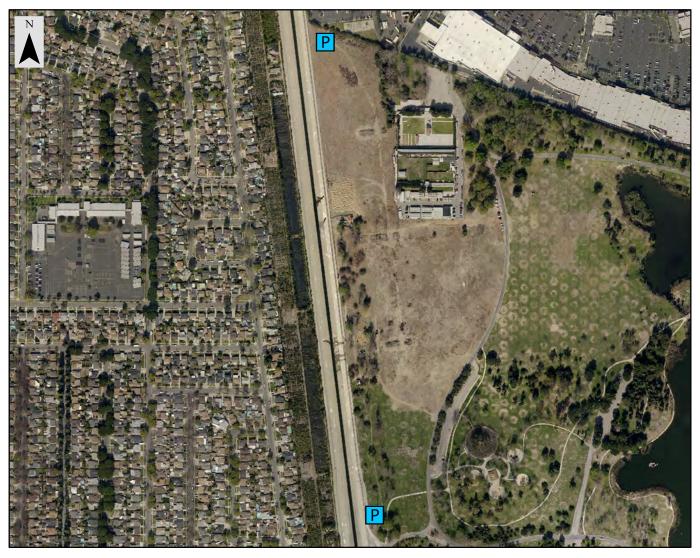
Project Description: This project will include drilling, developing and equipping new groundwater production

wells.

Purpose: Ensure future groundwater production.

Location: Commission 23A - 7325 E Wardlow Road and El Dorado 2 - 7335 E. Wardlow Road

Council District: 5
Budget: \$1,740,400.00





Capital Improvement Program FY 2023/24

Project: LBUD 2021 New Wells Citizens 8A & El Dorado 1

Fund: Water

Project Category: Water Supply

Project Description: This project will include drilling, developing and equipping new groundwater production

wells.

Purpose: Ensure future groundwater production.

Location: Citizens 8A - 5091 E. Wardlow Road and El Dorado 1 - 2890 Studebaker Road

Council District: 5
Budget: \$260,600.00





Capital Improvement Program FY 2023/24

Project: Two New Wells GWTP-1 and GWTP-2

Fund: Water

Project Category: Water Supply

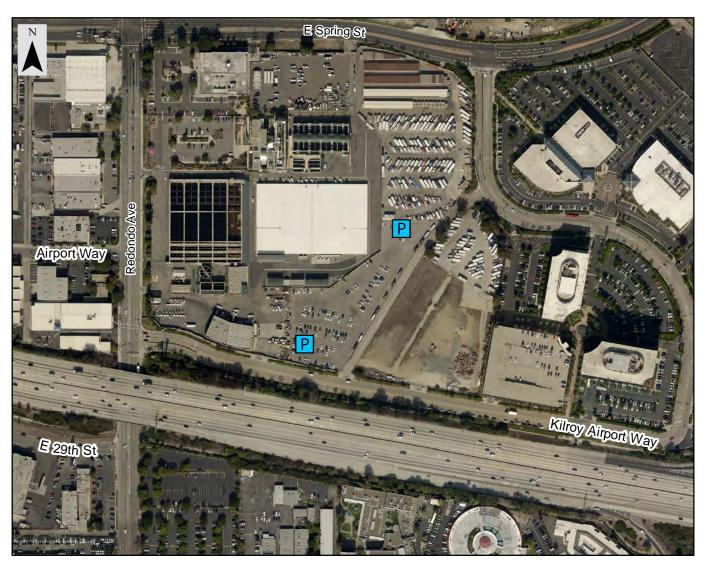
Project Description: This project will include drilling, developing and equipping new groundwater production

wells.

Purpose: Ensure future groundwater production.

Location: LBUD Groundwater Treatement Plan

Council District: 5
Budget: \$265,200.00



LONG BEACH UTILITIES DEPARTMENT CAPITAL IMPROVEMENT PROGRAM FY 2023/24 WATER FUND PROJECTS

PROJECT CATEGORY: RECYCLED WATER SYSTEM IMPROVEMENT PROJECT

Project Description	Cost Estimate
Recycled Water Pump Station Facility Improvement Master Plan	222,100
TOTAL	\$222,100

SUMMARY:

The Recycled Water Pump Station Facility Improvement Master Plan will assess the Department's recycled water facilities at El Dorado Pump Station and South Lake, provide recommendations for operational improvements, and replace aging or defective equipment.





Capital Improvement Program FY 2023/24

Project: Recyled Water Pump Station Facility Improvement Master Plan

Fund: Water

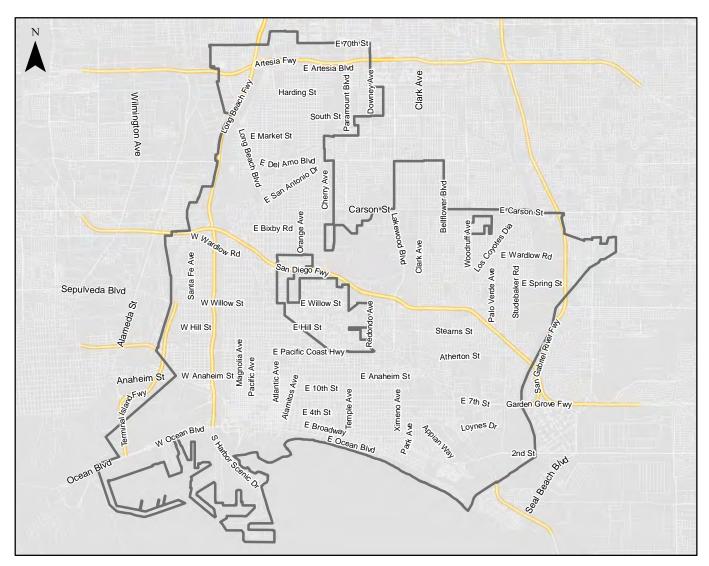
Project Category: Recycled Water System Improvements

Project Description: This project will assess the Department's recycled water facilities at El Dorado Pump

Station and South Lake.

Purpose: To provide recommendations for operational improvements, and replace aging or defective equipment.

Location: City-wide Council District: Various Budget: \$500,000.00



LONG BEACH UTILITIES DEPARTMENT CAPITAL IMPROVEMENT PROGRAM FY 2023/24 WATER FUND PROJECTS

PROJECT CATEGORY: WATER DEVELOPER PROJECTS

Project Description	Cost Estimate
Recycled Water Main Installation (LADWP Haynes)	331,200
ΤΟΤΔΙ	\$331 200

SUMMARY:

In partnership with private developers, other City Departments, and other local agencies, LBUD performs water facility-related improvements based on the needs of the proposed Developments throughout the City. LBUD works directly with private developers' design consultants to determine required improvements to the existing water system to properly serve the proposed project. For the Haynes Plant Recycled Water Main Installation Project, LBWD is working with the Los Angeles Department of Water and Power (LADWP) and has conducted a study on the expansion of LBUD water and sewer systems. The study identified two separate projects: recycled water pipeline and sewer pipeline constructions which will serve the future needs of the power generating station.





FY 2023/24

Project: Recycled Water Main Installation Along Studebaker Road (LADWP Haynes)

Fund: Water

Project Category: Recycled Water Developer Project

Project Description: Extending recycled water system from Atherton Street south along Studebaker Road with a

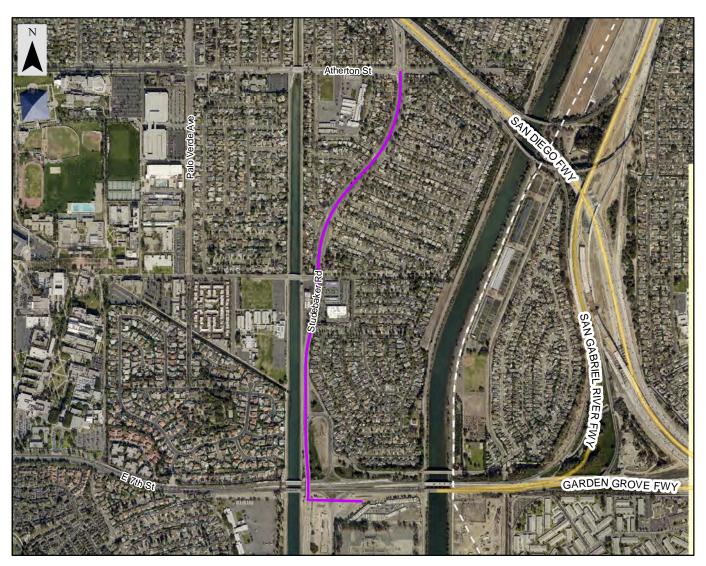
new 21-inch main to install a new large recycled water service for LADWP Haynes Generating Station.

Purpose: Extend recycled water system from Atherton Street south along Studebaker Road with a new 21-inch

main to install a new large recycled water service for LADWP Haynes Generating Station.

Location: Studebaker Road from Atherton Street to SR-22 Freeway

Council District: 3 & 4 Budget: \$331,200.00



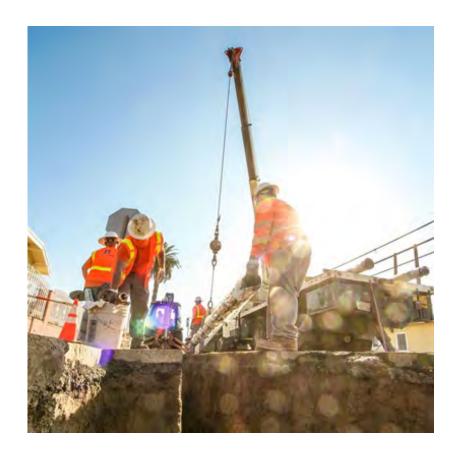
LONG BEACH UTILITIES DEPARTMENT CAPITAL IMPROVEMENT PROGRAM FY 2023/24 SEWER FUND PROJECTS

PROJECT CATEGORY: SEWER PIPELINE IMPROVEMENTS

Project Description	Cost Estimate
Sanitary Sewer Rehabilitation/Replacement Project - SSRRP 10	684,800
Sanitary Sewer Rehabilitation/Replacement Project - SSRRP 9	751,000
Sanitary Sewer Rehabilitation/Replacement Project - SSRRP 11	160,000
Sanitary Sewer Rehabilitation/Replacement Project - SSRRP 12	180,000
ΤΟΤΔΙ	\$1 775 800

SUMMARY:

To maintain sanitary sewer system reliability and capacity and stay in compliance with the State of California's Waste Discharge Requirements, it is the Long Beach Utilities Department's (LBUD) priority to overhaul deficient and aging sewer infrastructure to ensure the swift removal of sanitary sewage from Long Beach residences and businesses. LBUD's Sewer Master Plan identifies projects that will address any required improvements and additions to the existing sewer system. Pipes that are capacity deficient will be upsized and those that are structurally deficient and cannot be rehabilitated will be replaced.





FY 2023/24

Project: SSRRP Project Number 10

Fund: Sewer

Project Category: Sewer Pipeline Improvements

Project Description: This project will include rehabilitation of approximately over 18,000-ft of existing 8-inch, 12-

inch and 18-inch sewer mains.

Purpose: Extend pipeline life by reinforcing pipe interior.

Location: Various locations **Council District:** City Wide

Budget: \$684,800.00





Capital Improvement Program FY 2023/24

Project: SSRRP Project Number 9

Fund: Sewer

Project Category: Sewer Pipeline Improvements

Project Description: This project will include rehabilitation of 18,250 linear feet of 8-inch and 10-inch sewer

mains.

Purpose: Extend pipeline life by reinforcing pipe interior.

Location: Various locations

Council District: 5
Budget: \$751,000.00





FY 2023/24

Project: SSRRP Project Number 11

Fund: Sewer

Project Category: Sewer Pipeline Improvements

Project Description: This project will include design for rehabilitation of approximately 55,600 linear feet of

sewer mains between 8-inch to 18-inch .

Purpose: Design for rehabilitation of up to 55,600 linear feet of sewer main between 8-inch to 18-inch.

Location: Various locations **Council District:** City Wide

Budget: \$160,000.00





Project: SSRRP Project Number 12

Fund: Sewer

Project Category: Sewer Pipeline Improvements

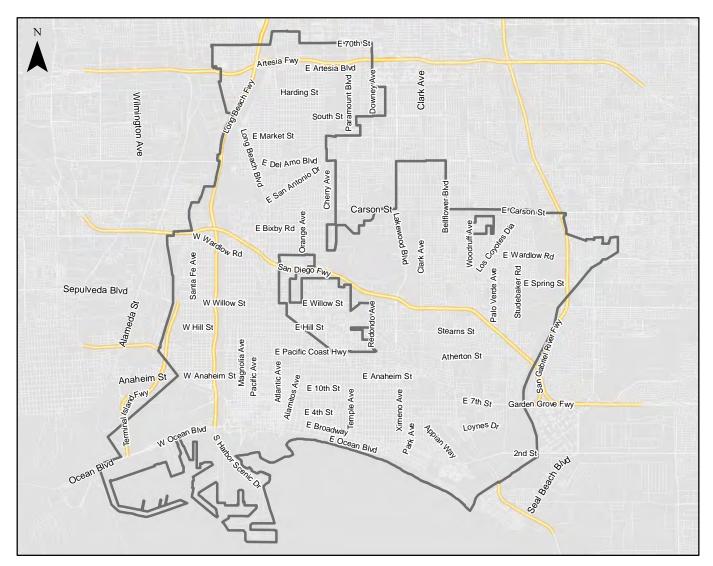
Project Description: This project will include design for rehabilitation of existing sewer mains.

Purpose: Extend pipeline life by reinforcing pipe interior.

Location: Various locations in Long Beach

Council District: Various

Budget: \$7,500.00



LONG BEACH UTILITIES DEPARTMENT CAPITAL IMPROVEMENT PROGRAM FY 2023/24 SEWER FUND PROJECTS

PROJECT CATEGORY: SEWER LIFT STATION REHABILITATIONS

Project Description	Cost Estimate
S-8 Sewer Lift Station Rehabilitation	1,273,000
S-25 Sewer Lift Station Rehabilitation	1,321,100
S-7 Sewer Lift Station Rehabilitation	67,600
TOTAL	¢0.004.700

TOTAL \$2,661,700

SUMMARY:

In order to maintain sanitary sewer system reliability and capacity and stay in compliance with the State of California's Waste Discharge Requirements, it is the Long Beach Utilities Department's (LBUD) priority to overhaul deficient and aging sewer infrastructure to ensure the swift removal of sanitary sewage from Long Beach residences and businesses. Sewer lift stations are rehabilitated to ensure the integrity, dependability, and prolonged life of critical sewer facilities.





FY 2023/24

Project: S-8 Sewer Lift Station Rehabilitation

Fund: Sewer

Project Category: Sewer Lift Station Rehabilitations

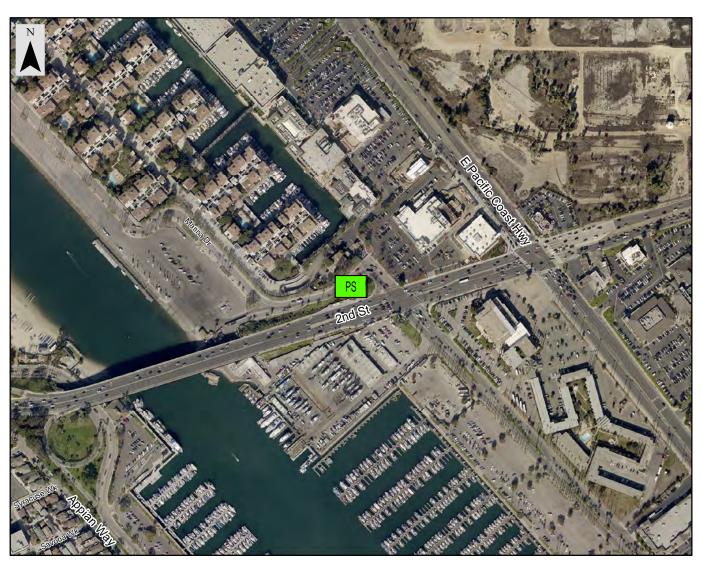
Project Description: This project will include interior wet well repairs, ventilation and odor control system

upgrades, and structural and seismic improvements.

Purpose: Improve the station's overall reliability.

Location: 6391 Marina Drive, north side of E. 2nd Street

Council District: 3
Budget: \$1,273,000.00





Capital Improvement Program FY 2023/24

Project: S-25 Sewer Lift Station Rehabilitation

Fund: Sewer

Project Category: Sewer Lift Station Rehabilitations

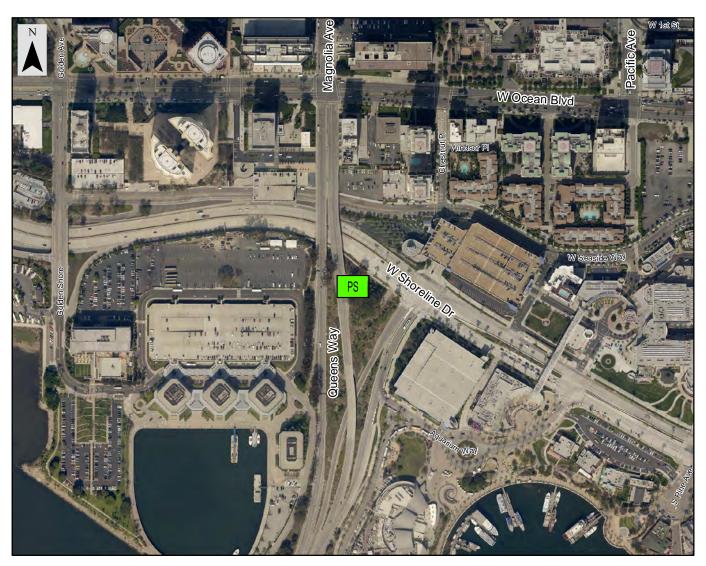
Project Description: This project will include interior wet well repairs, ventilation and odor control system

upgrades, and structural and seismic improvements.

Purpose: Improve the station's overall reliability.

Location: Queens Way and W. Shoreline Drive

Council District: 2
Budget: \$1,321,100.00





Capital Improvement Program FY 2023/24

Project: S-7 Sewer Lift Station Rehabilitation

Fund: Sewer

Project Category: Sewer Lift Station Rehabilitations

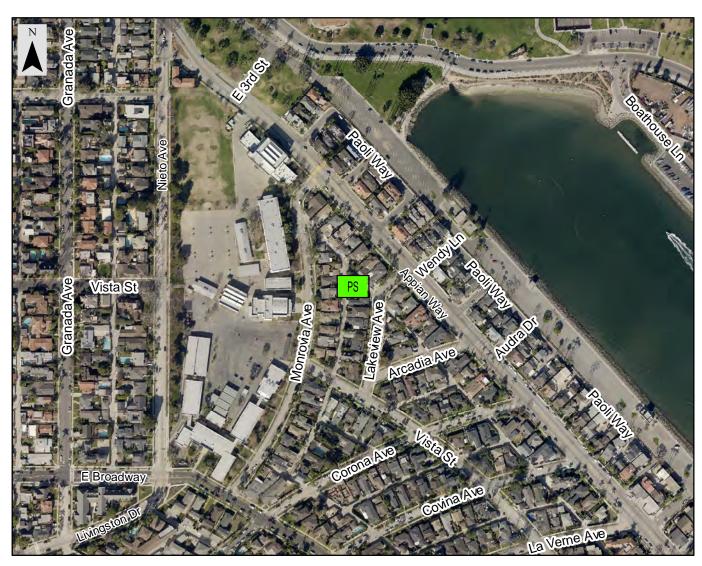
Project Description: This project will include interior wet well repairs, ventilation and odor control system

upgrades, and structural and seismic improvements.

Purpose: Improve the station's overall reliability.

Location: 349 Lakeview St

Council District: 3
Budget: \$67,600.00



LONG BEACH UTILITIES DEPARTMENT CAPITAL IMPROVEMENT PROGRAM FY 2023/24 SEWER FUND PROJECTS

PROJECT CATEGORY: SEWER DEVELOPER PROJECTS

Project Description	Cost Estimate
Sewer Main Installation (LADWP Haynes)	941,800
TOTAL	\$0.41 900

SUMMARY:

In partnership with private developers, other City Departments, and other local agencies, LBUD performs water facility-related improvements based on the needs of the proposed Developments throughout the City. LBUD works directly with private developers' design consultants to determine required improvements to the existing water system to properly serve the proposed project. For the Haynes Plant Recycled Water Main Installation Project, LBUD is working with the Los Angeles Department of Water and Power (LADWP) and has conducted a study on the expansion of LBUD water and sewer systems. The study identified two separate projects: recycled water pipeline and sewer pipeline constructions which will serve the future needs of the power generating station.





Capital Improvement Program FY 2023/24

Project: Sewer Force Main Installation for LADWP Haynes Generating Station

Fund: Sewer

Project Category: Sewer Pipeline Improvements

Project Description: This project will include construction of a new sewer force main from LADWP Haynes

Generating Station to the Long Beach Water Reclamation Plant.

Purpose: To serve LADWP Haynes Generating Station

Location: Various locations **Council District:** 3 & 4 **Budget:** \$941,800.00

