



2022-2027 Capital Improvement Program

Water | Sewer | SCIP | Surface

Water March 2022



Vancouver Public Works

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www.cityofvancouver.us/UtilityCIP

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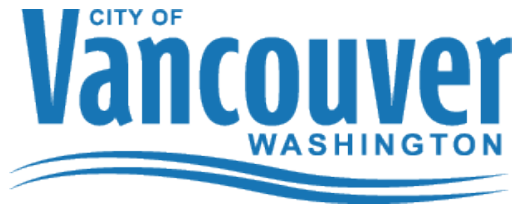
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2022-2027 Capital Improvement Program (CIP) **Water | Sewer | SCIP | Stormwater**

Letter from the Public Works Department

Public Works is responsible for operations, renewal and investment in our water, wastewater, and stormwater systems to meet an array of demands ranging from growth and development, regulatory compliance, asset replacement, and environmental protection to climate and seismic resiliency. It's vitally important that we manage our water resources to protect the assets that serve us all. The City of Vancouver (City) Public Works is developing a strategy for a resilient, integrated water system to serve our needs for generations to come. The 2022-2027 Water, Sewer, and Stormwater Capital Improvement Program (CIP) reflects the capital needs for each utility for the coming years.

Droughts, floods, aging infrastructure, and other risks require us to provide an integrated approach to managing our water resources across drinking water, wastewater, and stormwater utilities. Investments in each water system will help achieve the following goals:

- Improve water and air quality for better public health and environmental protection
- Provide capacity to support economic vitality
- Improve natural areas and community livability
- Reduce flooding, seismic, and security risks
- Replace aging infrastructure
- Identify more sustainable practices that beneficially utilize wastewater and water resources

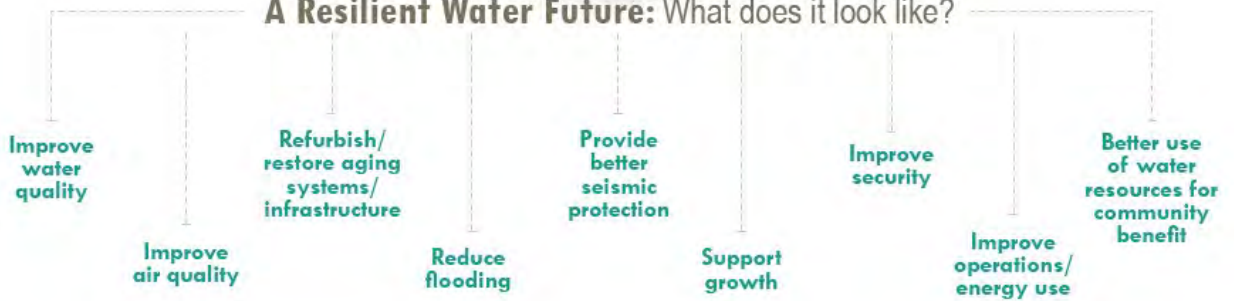
The goals listed above are central to the Water Resiliency Framework developed in 2021 by utilities to prioritize investments around a common vision. The City adopted a Water Resiliency Framework (Framework) to look more closely at impacts on our system and proactively address changing conditions like growth, climate change and aging infrastructure. The Framework recognizes the intrinsic connection of our water and relation to community health, economy, reliable infrastructure, and service. In Vancouver, water surrounds us. Sustaining clean water is essential to our community's future livability and vitality.



Water Resiliency Framework



A Resilient Water Future: What does it look like?



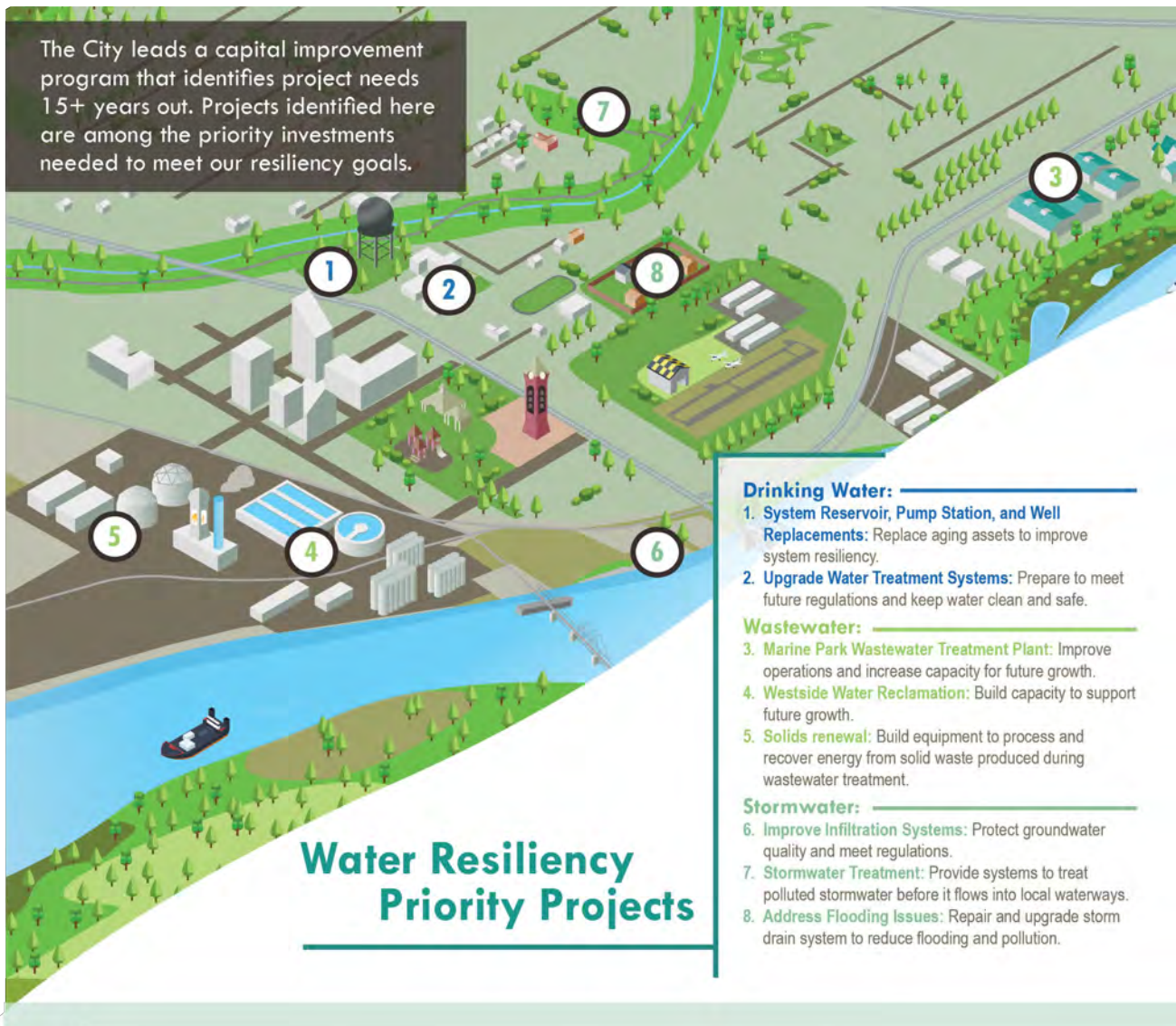
Each utility (water, wastewater, and stormwater) is working towards a common goal of protecting our water resources. For example, the water utility helps protect Vancouver’s aquifers and provides safe, clean drinking water for the citizens of Vancouver. The wastewater utility collects and treats discharge from residential, commercial, and industrial users so that clean water can be reintroduced to the environment. The stormwater utility helps protect greenways and manage and clean stormwater runoff.

Using an integrated water approach, we protect our community, environment and infrastructure better.



This integrated approach to water resiliency as well as new regulations have identified new capital needs (in addition to what was in previous versions of the City's CIP) in the near term and in the long term.

The City leads a capital improvement program that identifies project needs 15+ years out. Projects identified here are among the priority investments needed to meet our resiliency goals.



Examples include:

- Water: Water Station #3 and #5 improvements; Well replacements; and PFAS and hypochlorite treatment system improvements.
- Wastewater: Improvements and expansion to the Marine Park Treatment Plant; expansion at the Westside Treatment Plant; and conveyance/treatment of solids for both Marine Park and Westside treatment plants.
- Stormwater: Burnt Bridge Creek watershed improvements; compliance with new regulatory requirements; and new projects to help protect against flooding and restore habitat.

In order to help pay for these significant investments, staff will be working with City Council in 2022 to evaluate funding strategies.

What Happens Next?

We want to stay connected with you as we share plans to implement the Water Resiliency Framework. Through this process, **we intend to:**

- Increase community awareness and commitment to invest in water
- Streamline capital project delivery
- Continue investing in more efficient operations and staff development
- Efficiently comply with existing laws
- Find balanced and affordable financing options

We must invest about \$750 million over the next 15 years to upgrade our infrastructure and make it more resilient.

Our future depends upon our ability to invest in our utilities in a way that enhances and preserves our community's livability, safety, economic and environmental well-being. As we navigate the challenges ahead, we will continue to seek out innovations and opportunities that will support our thriving community now and for future generations to come.

Highlights of the 2022-2027 Capital Improvement Program are shown in the table that follows.

Lon Pluckhahn,
Deputy City Manager
(Acting) Public Works Director

2022-2027

KEY WATER PROJECTS/EFFORTS:

- Replacement of Water Station 5 ground-level reservoir, including upgrades to emergency power systems and booster pumping systems.
- Replacement of Water Station 3 ground-level reservoir, elevated tank and booster pumping systems.
- Capital programs focused on rehabilitation and/or replacement of worn and obsolete water treatment facilities. This includes several chlorine disinfection system upgrades to state-of-the-art sodium hypochlorite disinfection technology.
- Ongoing upgrade and replacement of water mains throughout the distribution system that have been identified as high risk and/or high maintenance.
- Production well replacement projects at multiple water stations to improve reliability.
- Ongoing installation of transmission mains to move water from high production sources to areas of development.
- Electrical equipment replacement at water production stations.
- Preparation and implementation of new federal requirements pertaining to Per- and Polyfluoroalkyl Substances (PFAS).

KEY WASTEWATER PROJECTS/EFFORTS:

- Ongoing, multi-phased project to replace the SCADA technology network for enhanced monitoring and operation of collection system pump stations and wastewater treatment plants.
- Replacement of aging electrical equipment for site power supply and emergency power switch gear at the Westside Treatment Plant.
- Installation of new aeration system turbine blowers at both Marine Park and Westside Treatment Plants.
- Prepare for multiple projects that will improve, expand, and deal with solids conveyance/treatment needs at Marine Park and Westside treatment plants.
- Continued projects to completely rehabilitate or replace sections of the collection system's large-diameter interceptor piping.
- Ongoing individual projects within the Sewer Connection Incentive Program (SCIP) bringing reliable sewer service to 2,097 more homes.
- Ongoing rehabilitation or replacement of sewer mains throughout the collection system that have been identified as high risk and/or high maintenance.
- Upgrading of systems and equipment at the Industrial Pretreatment Lagoon for improved process control and energy efficiency.

KEY STORMWATER PROJECTS/EFFORTS:

- Ongoing efforts using limited available capital funds to leverage grants to address stormwater quality and quantity issues throughout Vancouver.
- Small capital projects involving regulatory compliance and replacement of substandard systems.
- Improvements to the Burnt Bridge Creek watershed.
- Implementation of new requirements and programs, as required by implementation timelines in the City's August 2019 Stormwater National Pollutant Discharge Elimination System (NPDES) permit. This will require new staffing, and also includes an inspection program for source control and comprehensive stormwater planning, changes to local ordinances and infrastructure design standards, and increased water quality monitoring of watershed basins.

Comprehensive Plan Policies for Water, Sewer and Surface Water (Adopted Nov. 7, 2011)

- PFS-1. SERVICE AVAILABILITY (ALL UTILITIES): Consider water, sewer, police, transportation, fire, schools, storm water management and parks as necessary public facilities and services. Ensure that facilities are sufficient to support planned development.
- PFS-2. SERVICE STANDARDS (ALL UTILITIES): Establish service standards or planning assumptions for estimating needed public facilities, based on service capabilities, local land use designations and nationally recognized standards.
- PFS-21. WASTEWATER RECLAMATION: Eliminate health hazards from domestic and industrial wastewater and return clean water to the environment.
- PFS-22. SEWER SERVICE: Provide sewers and sewer service to every Vancouver home, business, and industry at an affordable and equitable cost. Discourage development that includes on-site sewage treatment systems. Encourage existing development using septic systems to connect to public sewer as soon as available. Ensure that the infrastructure to support sewer service is in place prior to or at the time of development.
- PFS-23. WATER SERVICE: Provide safe, clean, quality drinking water to every Vancouver home, business, and industry. Discourage development that includes private drinking water wells. Provide water pressures and volumes necessary to support fire suppression hydrants and sprinkler systems. Ensure that the infrastructure to support water service is in place prior to or at the time of development.
- PFS-24. SEWER AND WATER SERVICE EXTENSION: Public sewer and water service should not be extended outside the Vancouver urban growth area except to (a) Remedy a threat to public health or safety. (b) Remedy a threat to water resources, (c) Provide service to uses within the urban reserve district otherwise required to be served (d) Support development envisioned in a jurisdiction's comprehensive plan (e) Water service may be extended if it is consistent with the Clark County Coordinated Water System Plan and does not increase density beyond the adopted Comprehensive Plan. The existence or extension of sewer or water service should not be used to justify changes to the Comprehensive Plan.
- PFS-25. SURFACE WATER MANAGEMENT: Manage storm water to safely pass floodwaters, maintain and improve water quality of receiving streams, lakes, and wetlands, protect and enhance fish and wildlife habitat, promote recreational opportunities, and enhance community aesthetics.

Comprehensive Plan Policy for Asset Management (Adopted Dec. 16, 2013)

- PFS-35 City public facility assets shall be systematically managed to balance full life cycle costs, performance, risk, and service levels, using best management practices and data.

Financial Policies for Capital Planning and Asset Management (Adopted Nov. 16, 2020)

34. In pursuit of an asset management strategy that prioritizes safety, equity and climate action, the City will:
- Consider the climate impacts of asset investments and pursue asset management strategies that reduce its contribution to climate change over time.
 - Consider equity impacts of capital projects and asset management strategies and prioritize investments that improve equity within the City.
 - Consider the potential improvements to community safety associated with capital investments and prioritize investments that improve community safety, particularly in the transportation system.

35. Asset management best practice involves managing the performance, risk and expenditures on infrastructure assets in an optimal and sustainable manner throughout their lifecycle covering planning, design, construction, operation, maintenance, and disposal. The City shall integrate the principles and best practices of Asset Management such as those embodied in the *International Infrastructure Management Manual* in the management of its assets.
36. **Asset Inventory** will be maintained with maintenance, repair and deferred maintenance costs identified and updated on an annual basis.
37. **Maintenance** of city assets shall be addressed on a current need, rather than deferred into the future.
40. A **six-year City-Wide Capital Improvement Program** shall be developed annually and shall provide a prioritized list of reasonably funded projects and those in process of securing funding. Capital Improvement Plans for utility assets shall be updated no less frequently than every two years. The comprehensive plan will identify longer-term capital needs by program area.
41. Funding for capital projects, including major facilities maintenance projects, will be allocated in a manner that balances community needs with City priorities, the potential for attracting matching funds, and the ability to reduce or limit expenses in future years.
42. Proceeds from the sale of capital assets of the city in the downtown are to be reinvested in the public infrastructure projects facilitating further economic development in downtown.
43. The City's objective is to incorporate a "**pay-as-you-go**" approach (using available cash and current resources) in the Capital Improvement program.
44. The capital budget will be adopted at the same time the City Operating Budget is adopted. The Capital budget will only include fully funded projects. The Capital Budget will only contain projects identified in the Capital Improvement Program.
45. A **capital repair appropriation** will be maintained for unanticipated major repairs of general operating facilities and for emergency replacement of general fund equipment. Additions to the capital repair contingency reserve will be made based on Council directions.
46. **Impacts on net annual operating and maintenance costs** will be identified as part of the funding considerations for new capital projects such as buildings, parks and street enhancements. This includes identifying potential reductions in maintenance costs if improvements are funded. The necessary funds to operate the capital facility will be identified at the time the capital budget is adopted.
47. In order to provide long-term sustainable utility services, the City will structure utility rates so that system reinvestment including major repair, rehabilitation, and replacement of utility assets can be fully funded on an ongoing basis in accordance with the City's "pay as you go" policy. This will be achieved through a plan of smaller incremental rate increases to maintain affordability. As identified by the utility capital improvement plan, rates will also include an investment component for capacity improvements and system expansion.
48. A **system development reserve** will be maintained to fund growth related capital costs. All systems development charge revenue will be contributed to the fund.



UTILITY FUNDING NARRATIVE

Each of the utilities has five components to their funding structure: Revenue, Expenses, Reserves, Debt, and Assets. In broad terms, Revenue is the money brought into the utility, Expenses are the moneys going out of the utility, Reserves are the moneys set aside for emergencies or capital work, Debt is the money owed on loans, and Assets are the value of the infrastructure/facilities and money held by the utility. Below is a general description of each component for the respective utilities.

Water

- Revenues consist of: Ratepayer revenue, System Development Charges (SDC), Grants, and miscellaneous revenue.
- Expenses consist of: Operations and maintenance activities, Taxes and fees, Loans made to other utilities, Debt service, and Capital improvements.
- Reserves consist of: Debt service reserve, Capital emergency reserve, Water construction reserve, Sewer Connection Incentive Program (SCIP) reserve.
- Debt consists of: Revenue bonds for capital improvements
- Assets consist of: Pipes and appurtances, Water stations, Wells, Water rights, Real property/Easements, Distribution pumps, Operations and maintenance equipment, and cash.

Sewer

- Revenues consist of: Ratepayer revenue, System Development Charges (SDC), Loans, and miscellaneous revenue.
- Expenses consist of: Operations and maintenance activities, Taxes and fees, Debt service, and Capital improvements.
- Reserves consist of: Debt service reserve, Capital emergency reserve, Sewer construction reserve.
- Debt consists of: Revenue bonds for capital improvements, long-term Interfund loan from water.
- Assets consist of: Pipes and appurtances, Pump stations, Wastewater treatment facilities, Real property/Easements, Operations and maintenance equipment, and cash.

Surface Water

- Revenues consist of: Ratepayer revenue, Loans, Grants, and miscellaneous revenue.
- Expenses consist of: Regulatory, Operations and maintenance activities, Taxes and fees, and Capital improvements.
- Reserves consist of: Surface water construction reserve.
- Debt consists of: State Revolving Loan (SRL) for capital improvements.
- Assets consist of: Treatment facilities, Conveyance facilities, Flow control facilities, Real property/Easements, Operations and maintenance equipment, and cash.

CAPITAL PROJECT JUSTIFICATIONS

Each utility works on capital projects that can be lumped into five broad categories: Regulatory compliance, improved safety, new systems, replace/preserve/rehabilitate systems, or lower operating costs. Regulatory compliance projects include capital work done in order to comply with new State or Federal requirements. Improved safety projects are capital projects undertaken in order to improve the public safety and welfare. New systems capital projects are undertaken in order to increase capacity or facilitate growth. Replace/preserve/rehabilitate system capital projects are undertaken in order to replace old infrastructure or prolong existing infrastructure's effective life. Lower operating costs projects include capital work done in order to increase efficiencies or to otherwise reduce operating costs. Many projects will overlap categories, but these five categories provide the justification for why most public works capital projects are undertaken. Below are examples of the types of projects that can be found in each category for the respective utilities.

Water

- (1)-Regulatory compliance: State (DOH) and Federal (EPA) projects.
- (2)-Improved safety: Fire flow improvements, seismic upgrades, and chemical system upgrades.
- (3)-New systems: Wells, pumps, treatment systems, controls, storage, and mains.
- (4)-Replace/preserve/rehabilitate systems: Wells, pumps, treatment systems, controls, storage, substandard and leaking mains.
- (5)-Lower operating costs: Water station upgrades and pump replacement.

Sewer

- (1)-Regulatory compliance: Improve discharge to water bodies and sludge burning (air quality).
- (2)-Improved safety: Groundwater protection improvements and Sewer Connection Incentive Program (SCIP).
- (3)-New systems: New trunk/interceptor/service mains and new pump stations.
- (4)-Replace/preserve/rehabilitate systems: Trenchless Repair projects and pump station replacements.
- (5)-Lower operating costs: Treatment plant upgrades and pump replacement.

Surface Water

- (1)-Regulatory compliance: NPDES compliance projects and Underground Injection Control (UIC) retrofit.
- (2)-Improved safety: Flooding mitigation and groundwater protection improvements.
- (3)-New systems: New treatment, conveyance, or flow control improvements.
- (4)-Replace/preserve/rehabilitate systems: Swale retrofits and drywell relocation projects.
- (5)-Lower operating costs: Swale retrofits and flow control retrofits.



Water Utility Recent Financial History





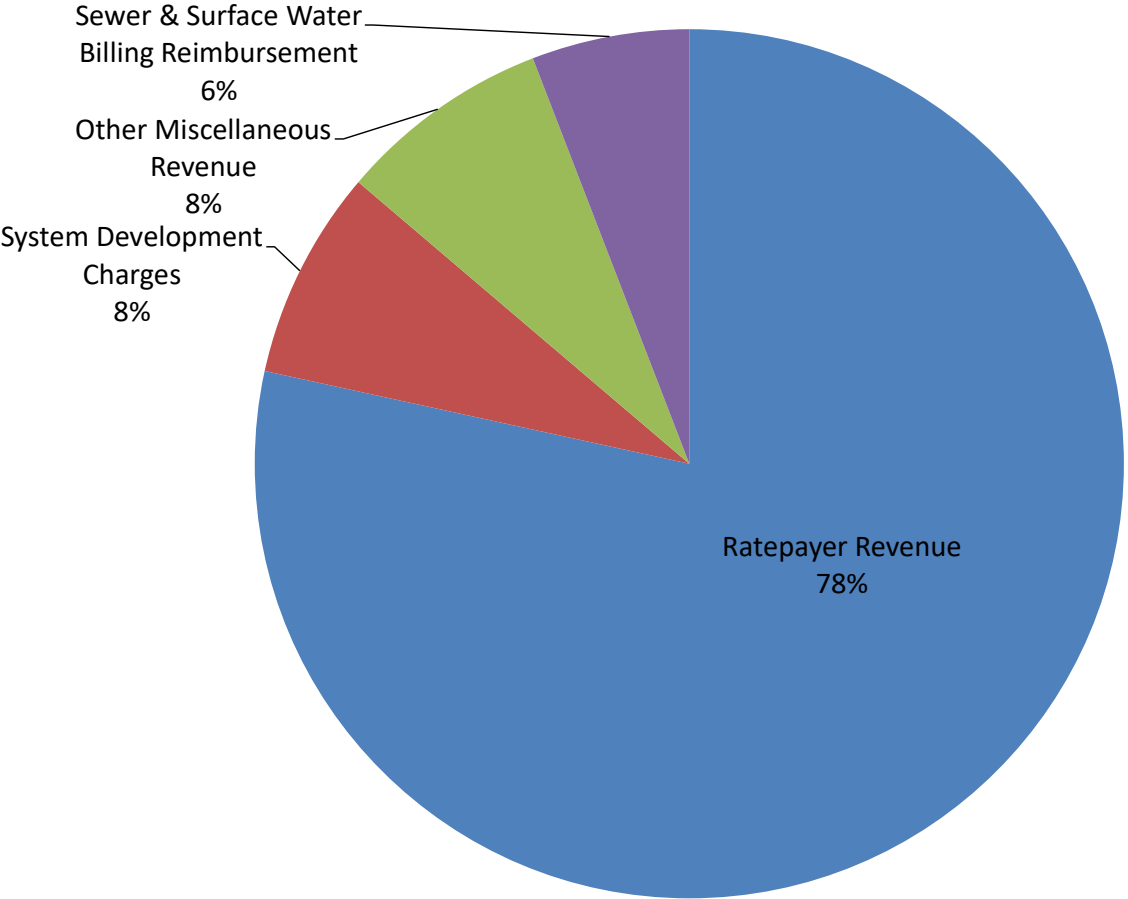
**WATER FUND ACTIVITY
(2014-2020)**

	2014	2015	2016	2017	2018	2019	2020
Revenue							
Ratepayer Revenue	26,598,003	29,459,874	30,532,514	33,943,175	36,637,725	38,051,995	41,604,155
System Development Charges	2,060,907	3,305,909	3,509,012	3,300,742	4,411,287	3,800,001	4,138,992
Grants	41,385	87,145	107,966	68,204	64,675	75,219	768,242
Sewer & Surface Water Revenue	2,437,063	2,672,571	2,791,383	2,698,260	2,871,236	3,092,379	3,112,000
Other Miscellaneous Revenue*	3,903,125	7,221,121	3,995,010	5,374,457	5,597,457	5,989,609	3,432,081
Total Revenue	35,040,483	42,746,620	40,935,885	45,384,838	49,582,380	51,009,203	53,055,470
Expenses							
Salaries & Benefits	9,761,371	10,128,946	10,416,991	10,888,560	11,290,218	12,675,345	12,226,939
Supplies and Services	3,864,162	4,031,296	3,484,423	3,964,448	3,693,620	4,207,110	3,297,002
Professional Services	643,348	717,470	1,291,475	1,256,302	1,525,793	993,381	910,354
Electrical	1,570,177	1,606,447	1,491,564	1,602,216	1,565,038	1,561,398	1,597,120
Indirects and ER&R	1,115,950	2,028,397	5,152,546	5,099,613	5,487,922	6,276,554	6,296,152
Operations & Maintenance Expenses	16,955,008	18,512,556	21,836,999	22,811,139	23,562,591	25,713,788	24,327,567
Taxes and Fees	6,681,153	7,386,940	8,438,588	10,274,352	11,294,200	12,658,148	14,249,776
Debt Service	645,471	645,738	554,504	104,040	99,705	-	-
Loans to the Sewer Fund						-	-
Capital Construction Expenses	7,653,864	12,146,035	6,435,864	13,154,853	9,941,874	11,892,737	19,757,285
Expenses Subtotal	31,935,496	38,691,269	37,265,955	46,344,384	44,898,370	50,264,673	58,334,628
Depreciation	4,441,149	4,525,061	4,688,224	4,811,167	4,983,157	-	-
Total Expenses	36,376,645	43,216,330	41,954,179	51,155,551	49,881,527	50,264,673	58,334,628

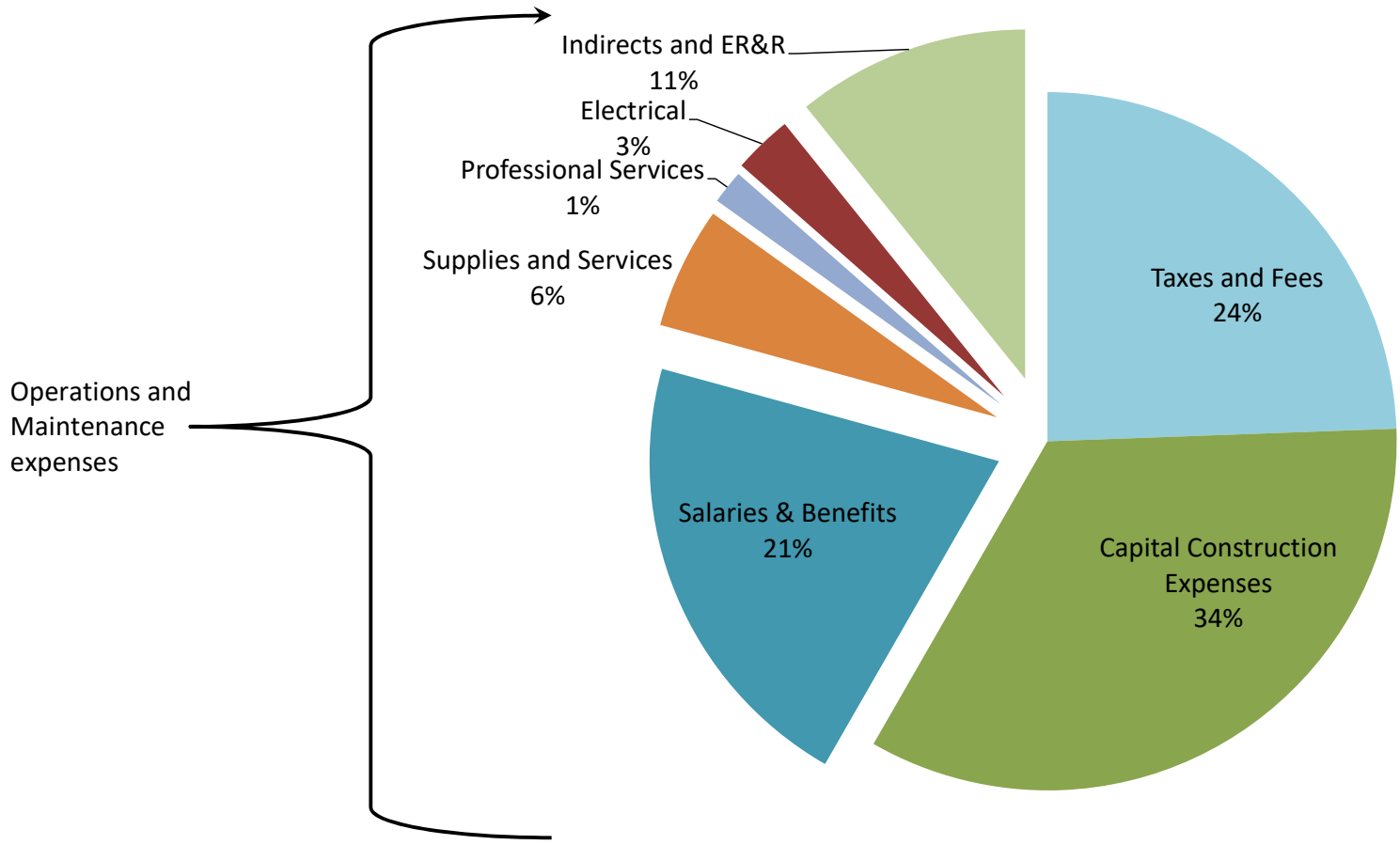
***Other Miscellaneous Revenues include items such as:**

- Misc Fines & Penalties
- Interest Earnings
- Interfund Rents
- Service Installations
- Latecomer Fees
- Interfund Transfers
- Proceeds from Refunded Debt

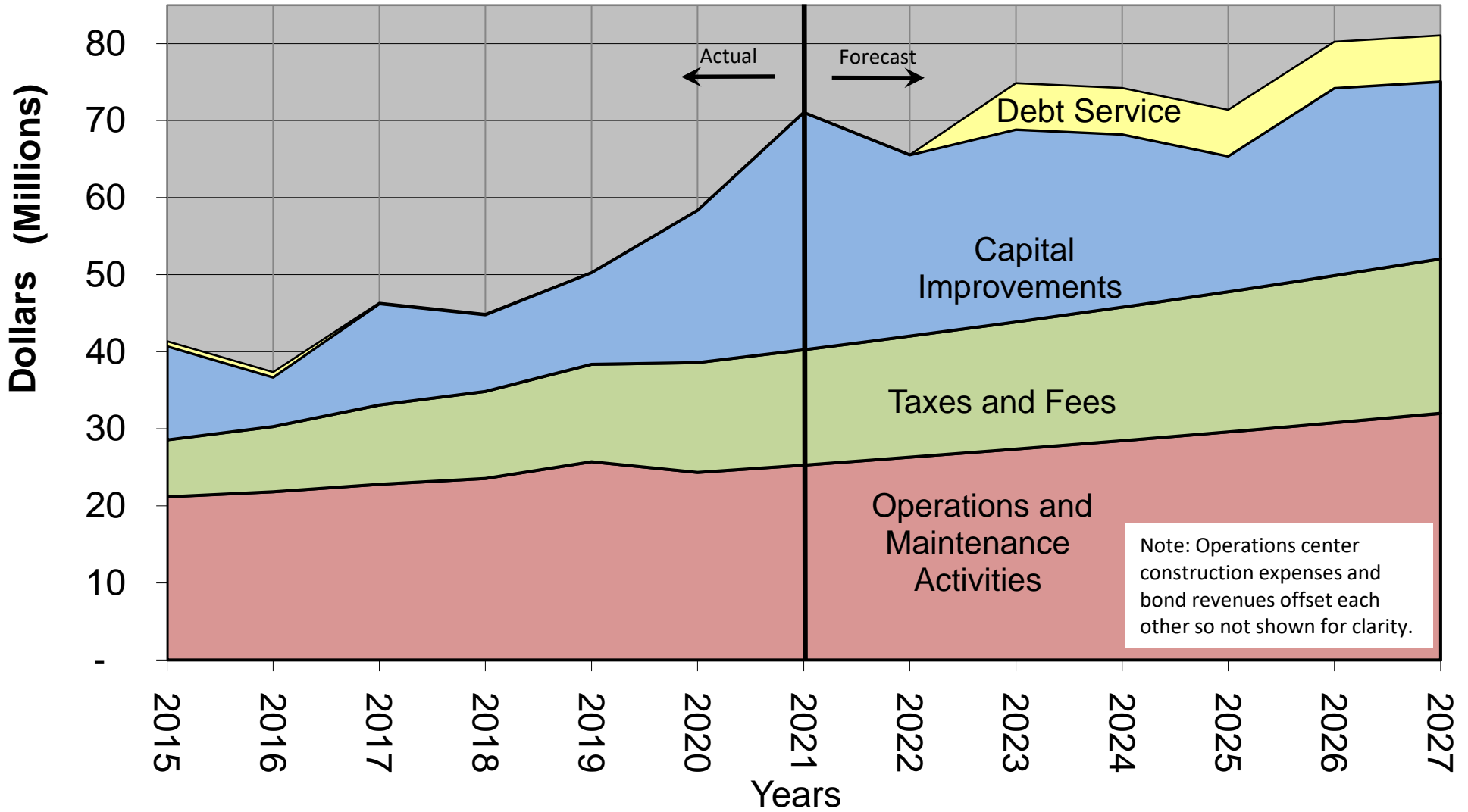
2020 Water Utility Revenues = \$53.1 million



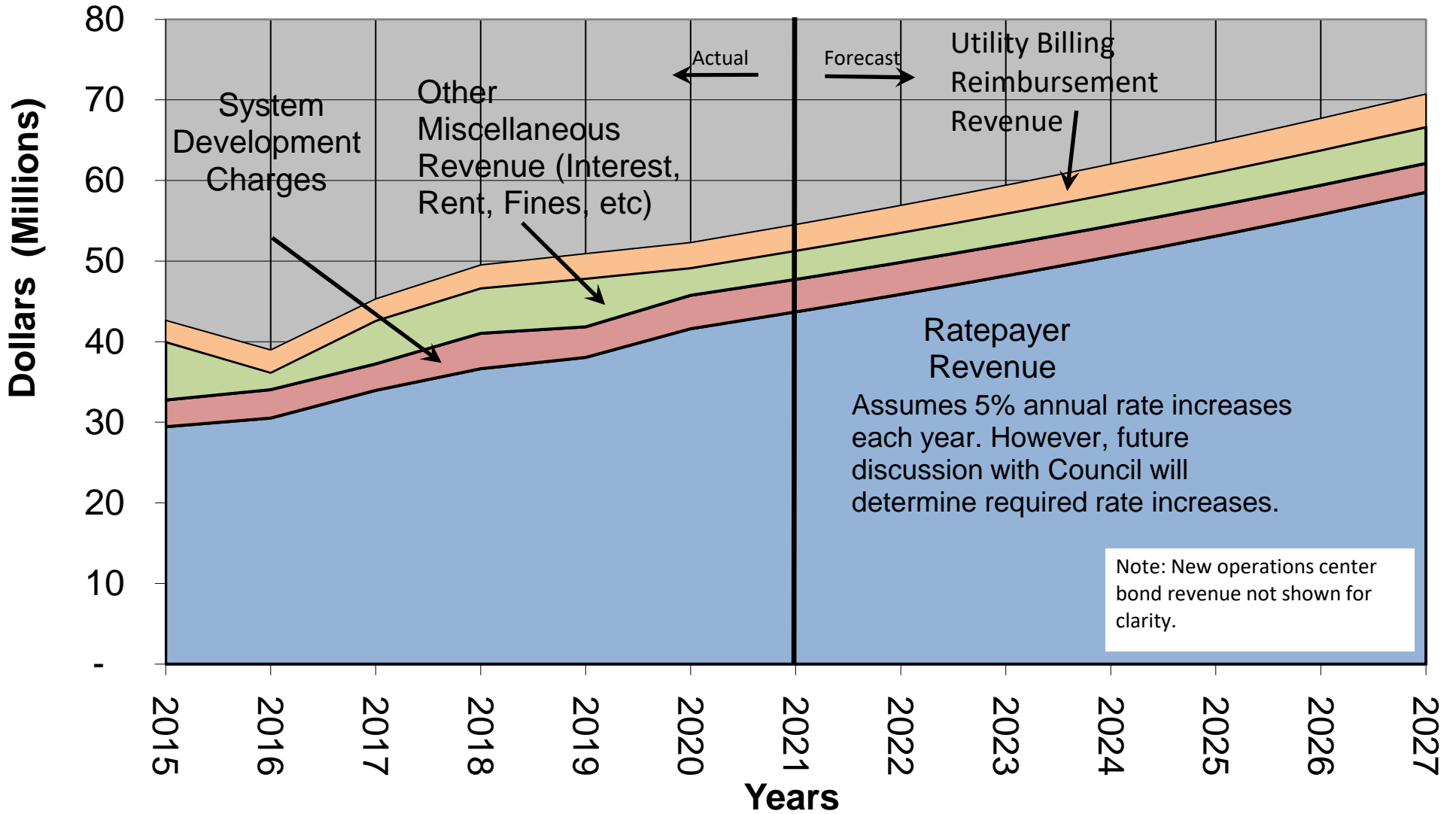
2020 Water Utility Expenses = \$58.3 million



Water Expenses (2015-2027)



Water Revenues (2015-2027)





Water Utility CIP Changes

This page provides an overview of the changes from the previous 6-year project list (2021-2026) to this year's 6-year project list (2022-2027). The changes are segmented by: projects added; projects removed; and other.

<i>Projects Added</i>	<i>Project No.</i>	<i>Comments</i>
Water Production		
PFAS Studies and new treatment	WTR-167	New drinking water treatment standards for Per- and polyfluoroalkyl substances
MCC Upgrades	WTR-166	New project (\$8M budget) for 2026
Water Distribution		
None noted		
Water Transmission		
Lincoln Ave. to Main St. Trans Main (T-4, T-5, T-6)	WTR-165	New \$1M project 2021-2023
BNSF Fourth Plain (T-3)	WTR-168	New \$2.5M project 2022-2023

<i>Projects Removed</i>	<i>Project No.</i>	<i>Comments</i>
Water Production		
Sodium Hypochlorite Gen System WS 9	WTR-61	Project Completed
WS 6 Tower Internal/External Coating	WTR-107	Project Completed
Water Distribution		
41 st St. and 43 rd St. – Lincoln Ave. to Daniels St. (D-10)	WTR-116	Project Completed
Ash St.	WTR-117	Project Completed
NE 18 th St – NE 97 th Ave to NE 107 th Ave.	WTR-151	Project now on hold
Y St – 32 nd to 35 th St (PRJ083749)	---	Project Completed
N. 37 th St- Main to G St	---	Project Completed
NE 56 th Ave. – 54 th St to 58 th St. (#27)	---	Project Completed
NE 33 rd St. and St. John’s Blvd.	---	Project Completed
E. 30 th St. – V St. to St. John’s (#28)	---	Project Completed
Daniels St. – 27 th to 33 rd St. (#33)	---	Project Completed
Water Transmission:		
WS 5 to WS 9 Trans. Main	WTR-51	Project Completed
System and Master Planning Projects:		
Water Rights Utilization Study – WS-6, 8, 15	WTR-A1-28	Project Completed

<i>Other Changes 2021</i>	<i>Project No.</i>	<i>Comments</i>
Water Production		
WS 5 Reservoir, Pump, E-Power	WTR-101	Additional \$4.7M budget added 2024
WS 5 Tower Internal Coating	WTR-106	Project pushed out to 2024
Water Distribution		
17 th St to McLoughlin Blvd (D-5)	WTR-115	Project moved out one year to 2022
Water Transmission		
None noted		
System and Master Planning Projects:		
None noted		

* Note 1. “Completed” indicates already completed as of the date of this document or anticipated completion prior to January 1, 2022.

Project Description	Project Number	CIP #	2021**	2022	2023	2024	2025	2026	2027	Total
448 Water Construction Fund										
Water Production Projects										
PRODUCTION PROJECTS BY WELLFIELD:										
Water Station 1 - Two 4 MG Reservoirs& Standpipe	PRJ083462	WTR-39	8,700,000	1,931,000						1,931,000
Water Station 1: Replace Wells 3, 4, and 5	PRJ100490	WTR-44		1,000,000	3,000,000					4,000,000
Water Station 3 Reservoir/Tower/Booster Replace	PRJ100492	WTR-53	627,553	800,000		10,000,000	6,420,000	500,000		18,347,553
Water Station 3 Replace Wells 1 & 2 with one well	TBD	WTR-54					1,700,000			1,700,000
Sodium Hypo Gen System WS 4	TBD	WTR-145			1,200,000					1,200,000
Water Station 4 Replace Well 1	TBD	WTR-43								-
Water Station 4 Well 4 Building Replacement	PRJ100240	WTR-67	510,000	885,818						885,818
WS 5 Reservoir, Pump, E-Power	PRJ100238	WTR-101	3,369,000	13,000,000	11,800,000	4,700,000				29,500,000
WS 5 Tower Internal Coating	PRJ100241	WTR-106				630,000				630,000
Water Station 5 Tank Upgrades and Ext Blast & Coating	TBD	---								-
Water Station 6 Well/Treatment Install	TBD	WTR-69								-
Water Station 6 Tank Upgrades and Ext Blast & Coating	TBD	---								-
WS 7 Hypo Gen System	PRJ100237	WTR-103	750,000	800,842						800,842
Water Station 7 Greensand	TBD	WTR-154						250,000		250,000
WS 7 Tower Internal Coating	PRJ100494	WTR-108	700,000	884,894						884,894
WS 7 Tank Upgrades and Ext OverCoat	TBD	---								-
WS 7 Water Right Well	TBD	---								-
Water Station 8 Replace Wells 2 & 3	TBD	---								-
WS 8 Hypo Gen System	PRJ100239	WTR-104	350,000	450,000	350,000					800,000
Sodium Hypo Gen System WS 15	PRJ100495	WTR-63			700,000					700,000
Water Station 15 Wells 1-4 Replacement	TBD	WTR-65					3,000,000	1,500,000		4,500,000
WS 15 Water Right Wells/Treatment	TBD	---								-
Sodium Hypo Gen System Ellsworth	PRJ100493	WTR-64		1,001,889	850,000					1,851,889
Ellsworth Well Rehabilitation	TBD	WTR-16				300,000				300,000
Ellsworth Greensand Replacement	TBD	WTR-155								-
Ellsworth Well Replacement	TBD	WTR-156							4,500,000	4,500,000
Ellsworth Roof Replacement	PRJ100503	WTR-160	700,000	695,393						695,393
Westside Wellfield Property	TBD	WTR-A1-24								-
Westside Wellfield Construction	TBD	WTR-A1-24								-
PRODUCTION PROJECTS - OTHER:										
Rezone Project for Vanc Low and Vanc High	PRJ100245	WTR-A1-114		50,000						50,000
NE 45th St Booster Pump Station Replace	TBD	WTR-146				1,750,000				1,750,000
Study for Adding a 4th Pump at St. Johns	TBD	---						10,000		10,000
Study for Additional HH Tanks	TBD	---								-
Heights High Groundwater Development	TBD	---	200,000	199,576	50,000					249,576
Reservoir Install Southeast	TBD	---								-
Standpipe in NE	TBD	---								-
System MCC Electrical Upgrades	TBD	WTR-166						3,000,000	3,000,000	6,000,000
Treatment Regulations Compliance	TBD	WTR-A1-23								-
PFAS Studies	PRJ100640	WTR-A1-23	1,000,000	948,520						948,520
PFAS Treatment	TBD	WTR-167					5,000,000	20,000,000	20,000,000	45,000,000
SCADA Projects										
SCADA Firewall/Security/Data Concent/PLC Software	PRJ100267	WTR-A1-29	290,000	124,601						124,601
SCADA PLC/HMI Upgrade	PRJ100504	WTR-A1-29		45,000	104,000	31,000				180,000
SCADA Software	PRJ100268	WTR-A1-29	129,000			16,000	216,000	23,000	204,000	459,000
Water Distribution Projects										
PRV Flowmeters/SCADA System Connections	PRJ083332	WTR-A1-12		112,676						112,676
Broadway - PH 1 (13th to 17th St)	PRJ083556	WTR-150	211,778	375,000						375,000
Water Main NE 49th St - NE 15th Ave to 40th Ave	PRJ100269	WTR-36	1,125,000	1,745,197						1,745,197
99th St Extension, NE 94th Ave to NE 104th Ave County	PRJ083560	WTR-109	600,000	585,278						585,278
17th St. to McLoughlin Blvd., F St. to I-5 (D-3)	PRJ100497	WTR-115	150,000	145,760						145,760
*SE 1st St - 164th Ave. to 192nd Ave.	PRJ100270	WTR-153			355,000					355,000
VL Rezone South of WS 1	PRJ100496	WTR-143		420,000						420,000
SCIP Coordination Projects	PRJ083563	WTR-A1-10	100,000	100,000	100,000	100,000	100,000	100,000		500,000
Leak Abatement	PRJ100244	WTR-A1-3		100,000	1,000,000	600,000	600,000	1,000,000	1,000,000	4,300,000
Water Demand Response	PRJ083553	WTR-A1-27	30,000	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000
99th St Transmission Main - NE 140th Ave. to Ward Rd	TBD	WTR-96		30,000	2,777,000					2,807,000
SR 500/I-5 Interchange (move 24")*	TBD	WTR-49					550,000			550,000
Lower Grand Industrial Area	PRJ100439	WTR-163	56,000	54,329						54,329
Evergreen Blandford to Sleret 12" Replacement	TBD	---								-
NW Lavina St. & 42nd St. (#7)	PRJ100505	WTR -157	80,000	773,307						773,307
Jefferson St. Realignment	TBD	WTR - 161			10,000	140,000				150,000
NE 46th St at NE 28th Ave (#20)	PRJ100410	---	40,000	34,605						34,605
52nd St - Daniels to Columbia (D-06)	PRJ100498	WTR-152	45,000	39,958						39,958
NE 45th St, NE 106th Ave to NE 109th Ave, Water	PRJ100575	---	178,000	239,865						239,865
NE 53rd St & St Johns Rd Water Main	PRJ100576	---	203,000	265,713						265,713
NW Daniels St, W 39th to W 45th St, Water	PRJ100577	---	406,000	487,291						487,291
Broadway St - PH 2 (6th to 13th St)	PRJ100590	WTR-150	275,000	588,601						588,601
Main St. - 5th St to 15th St	TBD	---		5,000	650,000					655,000
Heights District Water Mains	TBD	---			300,000	2,000,000				2,300,000
Other Water Projects										
Operations Center Redevelopment	PRJ083491	---	1,800,000	2,943,000	75,000,000					77,943,000
New Projects Master Plan Studies										
O&M Program Electronic Manual	PRJ100246	WTR-A1-112		300,000						300,000
Study for Heights High HGL Balance	TBD	---								-
Water System Comp Plan	TBD	---				50,000	300,000	200,000		550,000
Transmission Master Plan Projects										
*18th St Trans Main-136th to 162nd (T-40 ph2)	TBD	WTR-119								-
Haagen Park, north of 9th St. (T-37)	PRJ100502	WTR-128		364,590						364,590
WS 5 to Evergreen Trans Main Blandford (T-51)	TBD	WTR-120			932,000					932,000
SE Mill Plain Blvd. - 124th Ave. to 131st Ave. (T-46)	TBD	WTR-130			825,000					825,000
NE 9th St. to 18th St., 112th Ave. to 129th Ave. (T-36)	TBD	WTR-127			200,000	5,300,000				5,500,000
Transmission Main - Burton Rd (T-34)	TBD	WTR-6					200,000	3,700,000		3,900,000
SE Chkalov Dr., south of Mill Plain Blvd. (T-45)	TBD	WTR-129					515,000			515,000
Lincoln to Main St. Trans Main (T-4, 5 & 6)	PRJ100499	WTR-165	476	1,849,479	743,000					2,592,479
BNSF 4th Plain (T-3)	TBD	WTR-168		30,000	2,250,000					2,280,000
Total Water Project			21,998,254	34,534,735	104,296,000	25,917,000	18,351,000	31,133,000	29,004,000	243,235,735

*Project timing is dependent upon the timing of the overriding project.

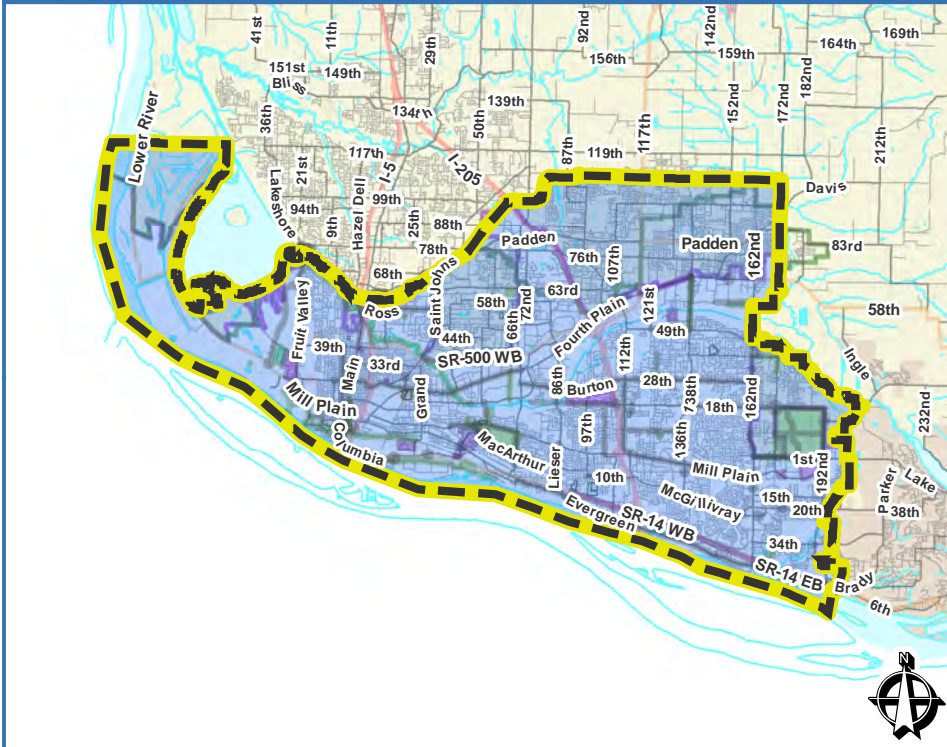
**2021 Amounts include revised delivery amount or actual spent in 2021 (as of November), whichever is higher



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: LEAK ABATEMENT

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Program for unplanned repair of substandard leaking water main.

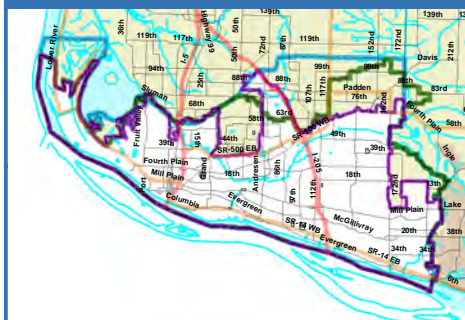
Project Justification

2 - Improve safety/reliability; 4- Replace/preserve existing systems; and 5 - Lower Operating Costs - Contingency fund for emergency repairs

LEGEND

	Project Area		Water Project Areas		Clark County
	Transportation Project Areas		SCIP Project Areas		Battle Ground
	Sanitary Sewer Project Areas		Project Polys		Camas
	Surface Water Project Areas		Vancouver City Limits		Washougal

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100244
Budget / Proj. Task #:	
Total Project Cost:	\$5,000,000.00
*Start of Const. (Year):	2020

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

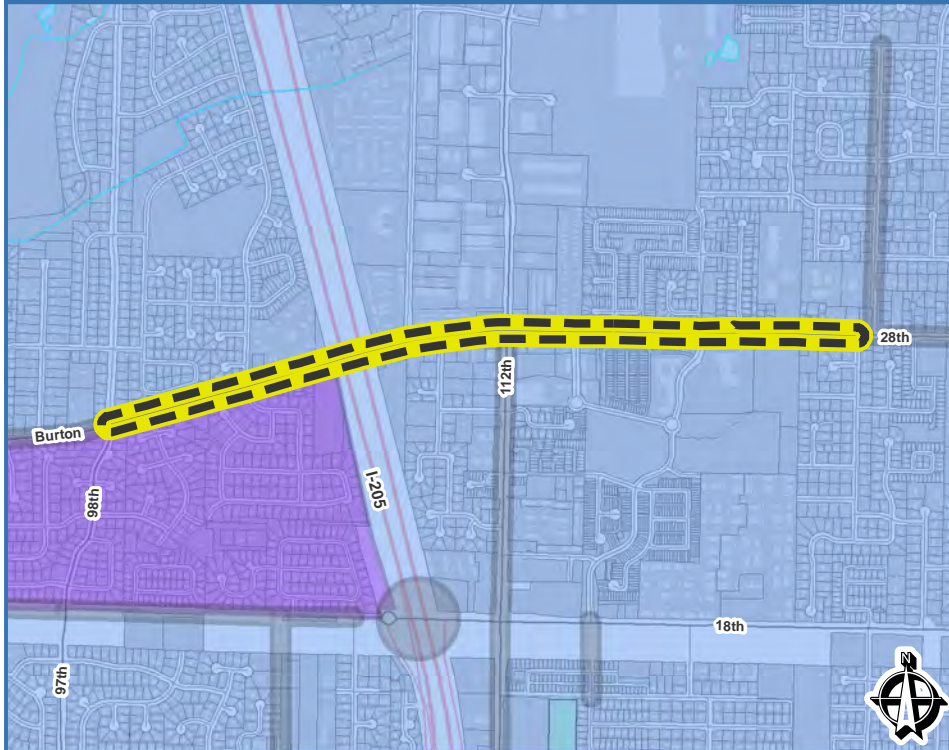
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **TRANSMISSION MAIN-NE BURTON RD (T-34)**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Install a 24 inch transmission main to the east from NE 97th Ave to NE 124th Ave in Burton Rd.

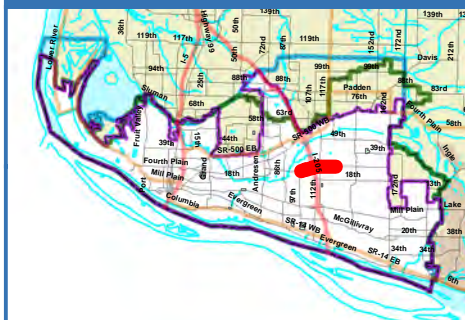
Project Justification

3) - Add transmission capacity, to move water from supply sources to areas with increasing demand. Transmission mains are needed to move the water from the southwest to the east. This project improves transmission capabilities from WS 1 and Ellsworth to the east.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	TBD
Budget / Proj. Task #:	
Total Project Cost:	\$3,900,000.00
*Start of Const. (Year):	2025

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

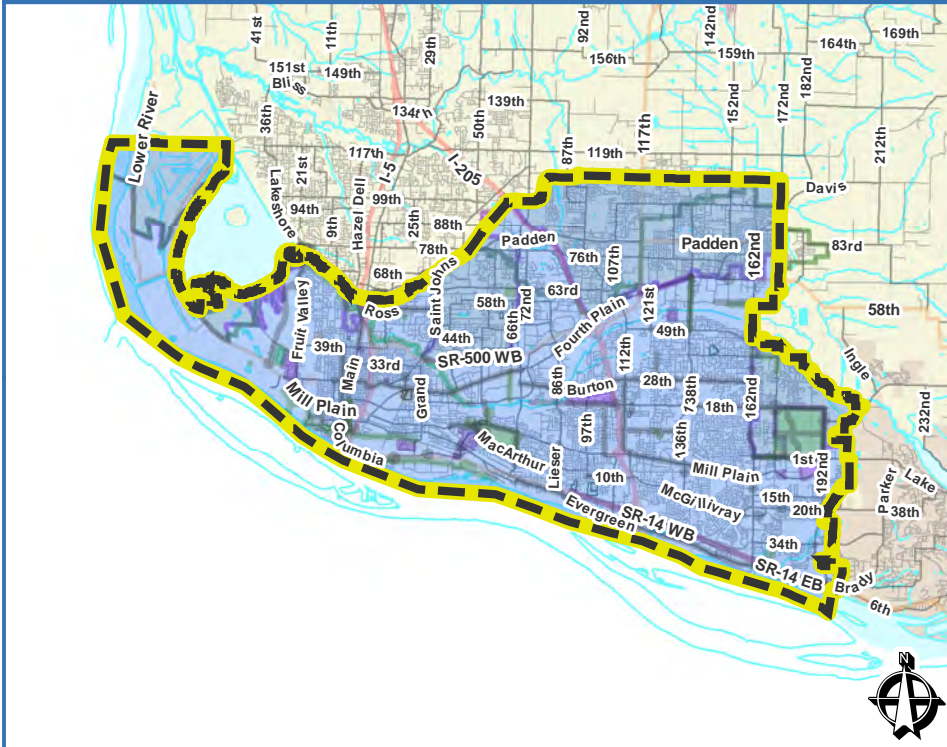
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: PRV FLOWMETERS/SCADA SYSTEM CONNECTIONS

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Provides SCADA system connection to support improved operations and system monitoring capabilities.

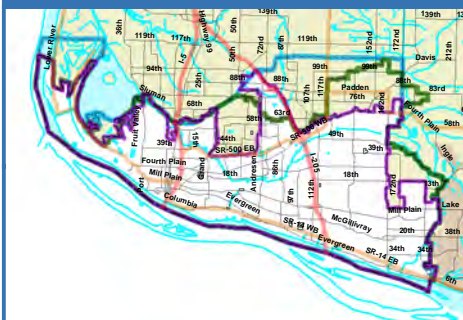
Project Justification

2 - Improve system safety by improving reliability of data collection throughout the water system. This upgrades our existing data collection capability for system operating pressures and flows, at all pressure reducing valves

LEGEND

	Project Area		Water Project Areas		Clark County
	Transportation Project Areas		SCIP Project Areas		Battle Ground
	Sanitary Sewer Project Areas		Project Polys		Camas
	Surface Water Project Areas		Vancouver City Limits		Washougal

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ083332
Budget / Proj. Task #:	
Total Project Cost:	\$112,677.00
*Start of Const. (Year):	2022

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

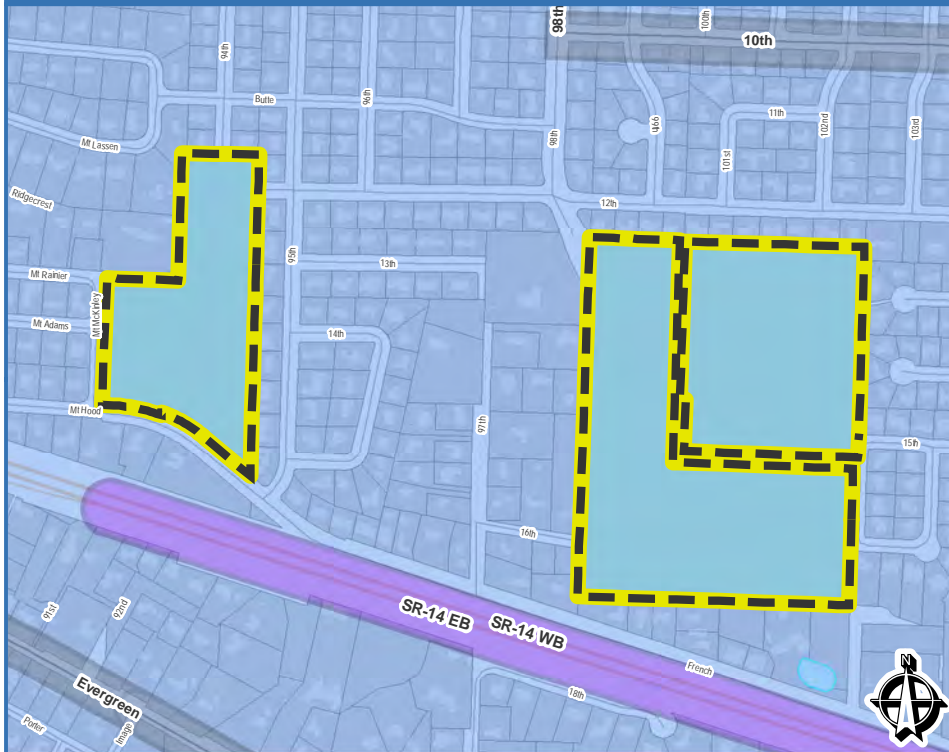
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: ELLSWORTH WELL REHABILITATION

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Scheduled rehabilitation of three production wells at Ellsworth.

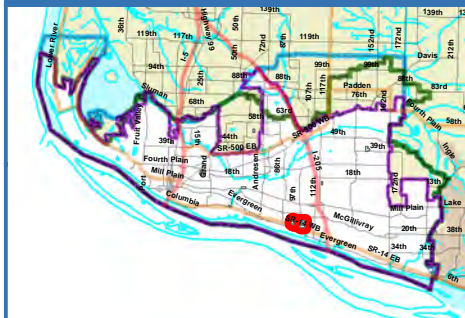
Project Justification

4 -Replace/repair/preserve existing assets. Project as identified by Water Operations. Site hydrogeologic conditions require well rehabilitation every 6-8 years to maintain system reliability, production capacity and prolong asset life. Rehabilitation of all three production wells at Ellsworth.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	TBD
Budget / Proj. Task #:	
Total Project Cost:	\$300,000.00
*Start of Const. (Year):	2024

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

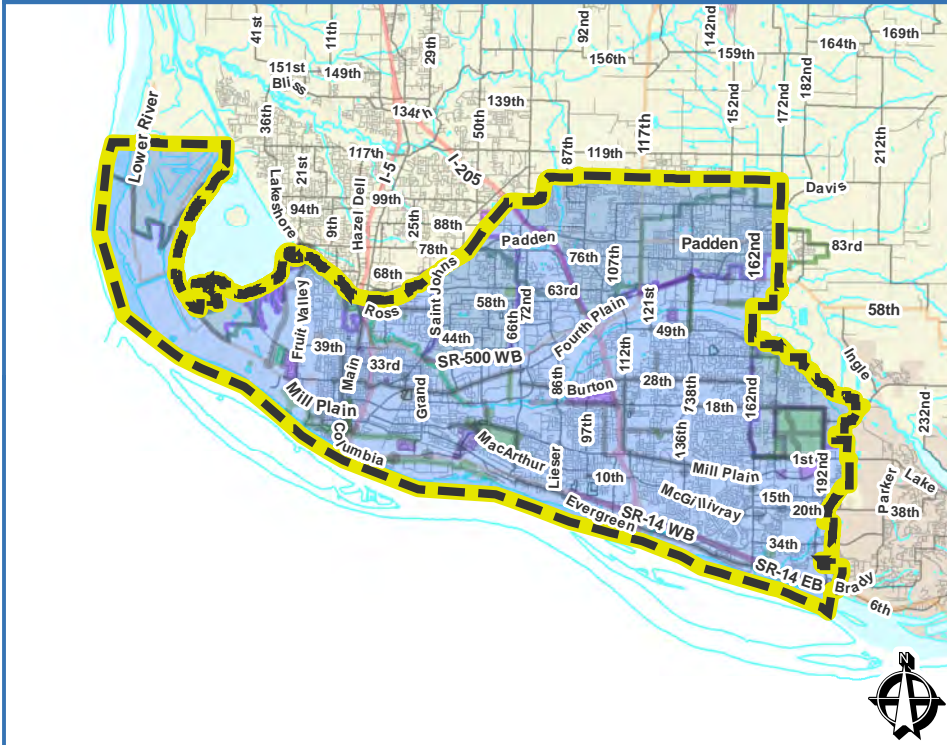
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: TREATMENT REGULATIONS COMPLIANCE

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Program to fund future changes in drinking water regulations. Current project is looking at treatment options needed for upcoming PFAS regulations.

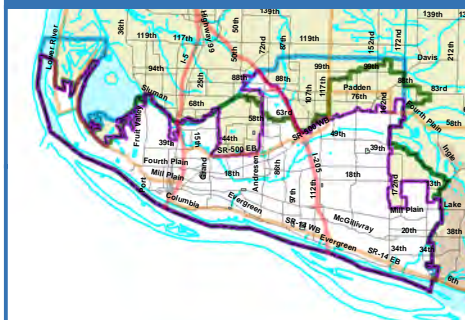
Project Justification

1 - Compliance with Regulations. Budget provided for unforeseen projects as needed to meet future changes to drinking water regulations. This could include additional treatment and/or storage requirements should regulations increase in the future.

LEGEND

	Project Area		Water Project Areas		Clark County
	Transportation Project Areas		SCIP Project Areas		Battle Ground
	Sanitary Sewer Project Areas		Project Polys		Camas
	Surface Water Project Areas		Vancouver City Limits		Washougal

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100640
Budget / Proj. Task #:	
Total Project Cost:	\$1,000,000.00
*Start of Const. (Year):	2025

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

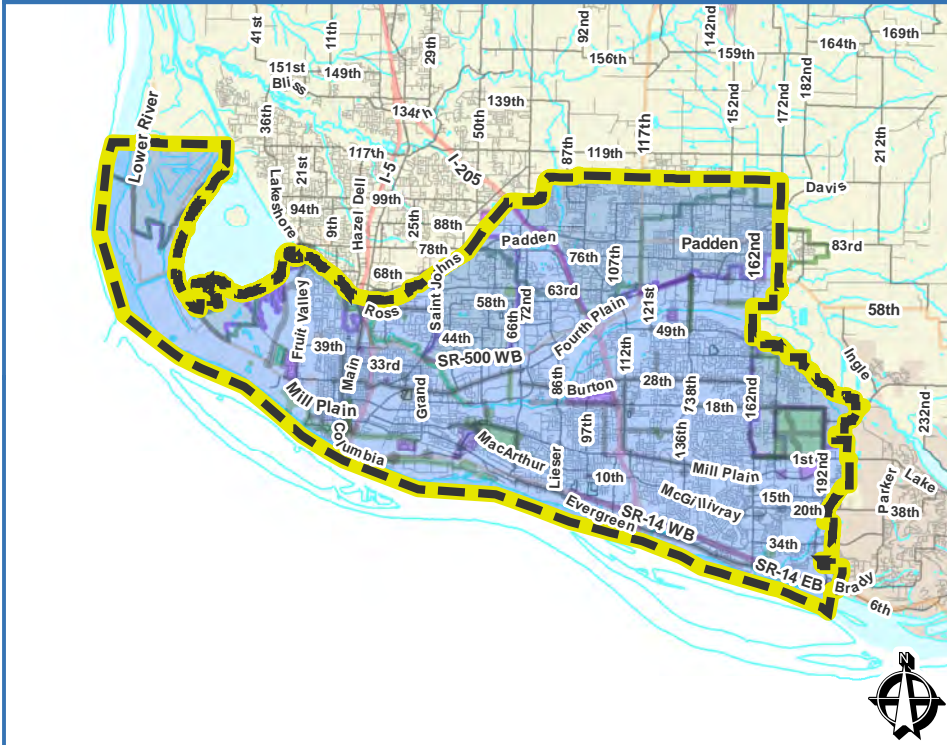
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WATER DEMAND RESPONSE

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

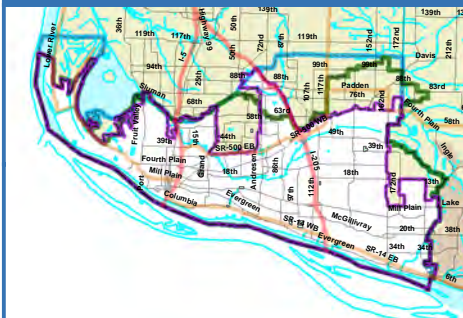
Project Description
Funds for unexpected project that come up during the budget cycle.

Project Justification
4-Replace/rehabilitate/preserve system. General Line Item for all Demand Response Projects. Funds are typically used to purchase parts for developers on oversize main installation projects. This project covers otherwise unscheduled work during roadway coordination, emergency work, or oversized mains associated with developments. Helps build needed improvements while roadways are under construction.

LEGEND

	Project Area		Water Project Areas		Clark County
	Transportation Project Areas		SCIP Project Areas		Battle Ground
	Sanitary Sewer Project Areas		Project Polys		Camas
	Surface Water Project Areas		Vancouver City Limits		Washougal

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ083553
Budget / Proj. Task #:	
Total Project Cost:	\$1,800,000.00
*Start of Const. (Year):	2020

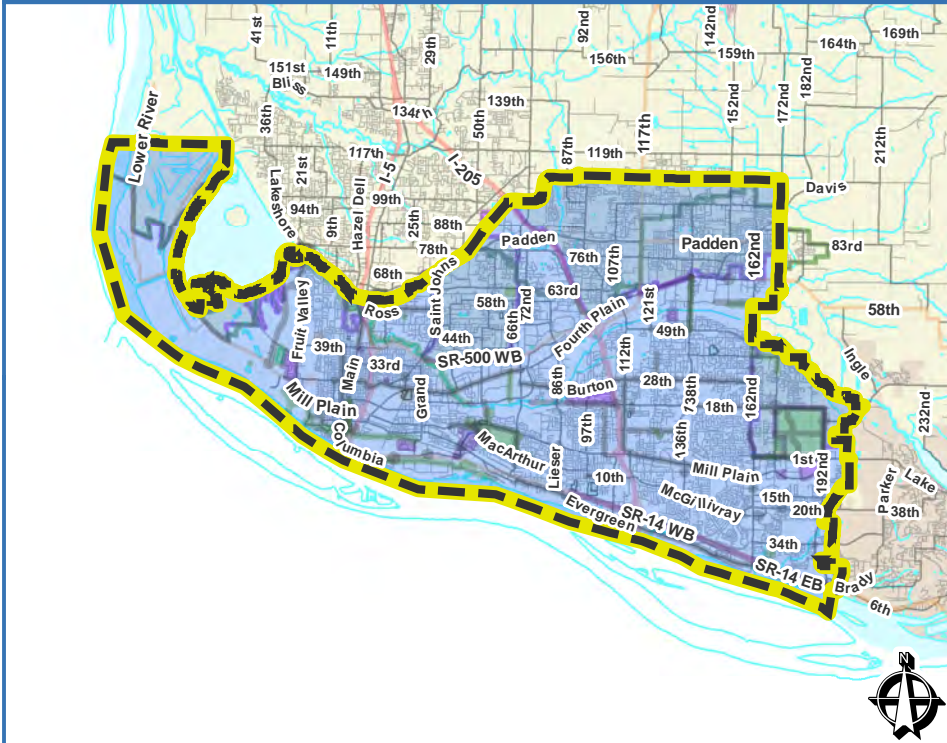
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: SCADA SYSTEM PROJECTS

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Update our SCADA system software and all associated hardware at all Water Stations.

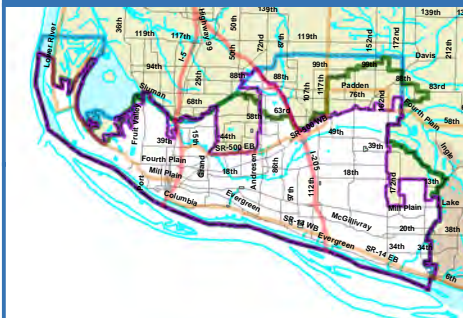
Project Justification

2 - Improve system security by making continuous improvement to the SCADA system. Project budget to improve reliability for system monitoring and operations, improve system redundancy and operational monitoring and reporting capabilities. Placeholder for ongoing upgrades to the SCADA system as technology continues to improve. Current projects for 2022-2027 6 yr CIP: 1) PRJ100267 -SCADA Firewall/Security/Data Connet/PLC SoftWare \$971,000; 2) PRJ100268 - SCADA PLC/HMI Software - \$232,000; 3) PRJ100268 -SCADA Software - \$76,000

LEGEND

	Project Area		Water Project Areas		Clark County
	Transportation Project Areas		SCIP Project Areas		Battle Ground
	Sanitary Sewer Project Areas		Project Polys		Camas
	Surface Water Project Areas		Vancouver City Limits		Washougal

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100267
Budget / Proj. Task #:	
Total Project Cost:	\$1,900,000.00
*Start of Const. (Year):	2019

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

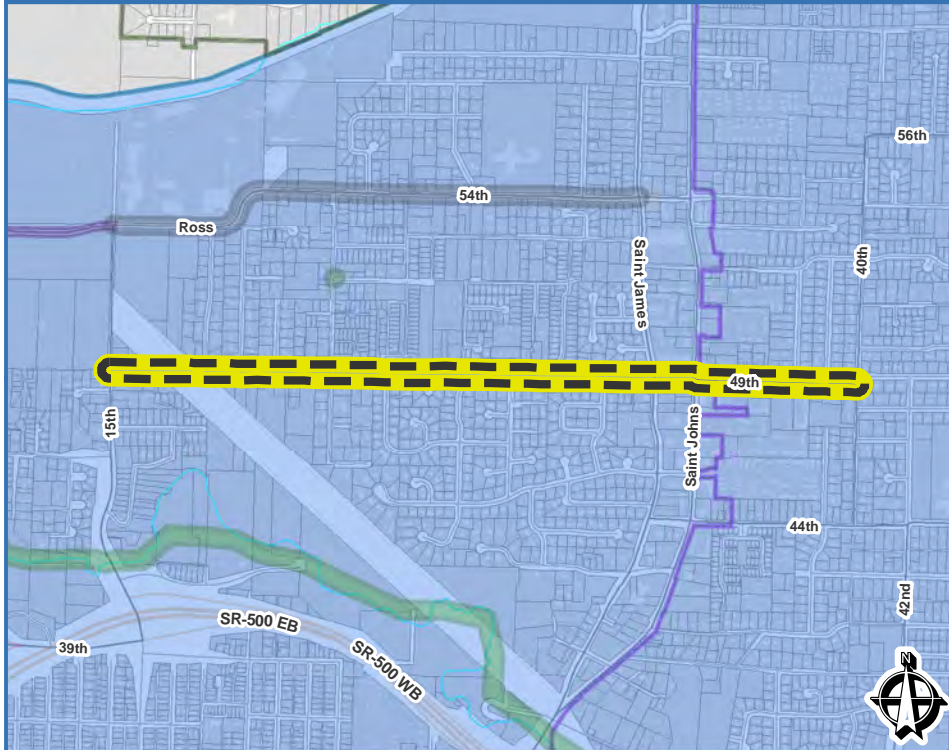
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **WATER MAIN NE 49TH ST, NE 15TH AVE TO ST. JOHN'S BLVD.**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Install 2500 LF of 10 inch and 4,300 LF of 8 inch water main to replace substandard main.

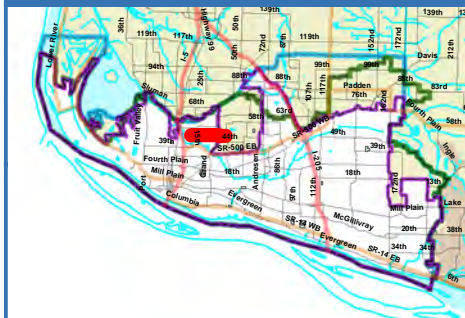
Project Justification

4 - Replace/preserve/rehabilitate systems - This project replaces substandard Asbestos Cement piping at high risk for leak failure, and improve reliability. Funded for design in 2019 for \$100,000, and \$805,000 for construction in 2020

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100269
Budget / Proj. Task #:	
Total Project Cost:	\$1,200,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WATER STATION #1 - TWO 4.0 MG RESERVOIRS AND STANDPIPE

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Construct two new 4 MG reservoirs meeting current seismic standards, to replace existing.

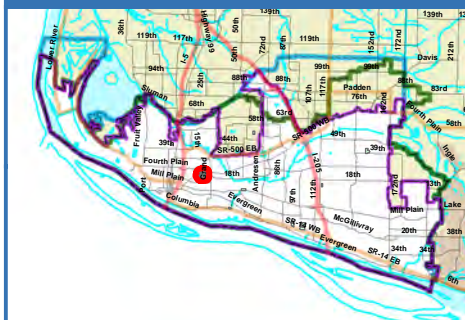
Project Justification

4 - Replace/preserve/rehabilitate existing systems - this project builds storage improvements identified in 2005 master plan. A reservoir constructed in 1909 and another constructed in the 1930's will be replaced by two new seismically sound 4 million gallon reservoirs. The existing 250 million gallon elevated tower constructed in the 1930's will be replaced with a new 1 million gallon steel standpipe. The design is to be completed in 2018 with construction to start in 2019. The construction duration is expected to be two and a half years, ending in 2022.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ083462
Budget / Proj. Task #:	
Total Project Cost:	\$24,480,000.00
*Start of Const. (Year):	2018

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **WATER STATION 1- REPLACE WELLS 3, 4 AND 5.**

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Water</td> </tr> <tr> <td>Project Type:</td> <td>Production</td> </tr> <tr> <td>Project Status:</td> <td>Active</td> </tr> </table>	Program/Discipline Type:	Water	Project Type:	Production	Project Status:	Active																		
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Project Type:	Production																								
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Project Area	SCIP Project Areas	Clark County																							
Transportation Project Areas	Project Polys	Battle Ground																							
Sanitary Sewer Project Areas	Vancouver City Limits	Camas																							
Surface Water Project Areas	Building Footprints	Washougal																							
Water Project Areas	Taxlots																								
Budget / Proj. #:	PRJ100490																								
Budget / Proj. Task #:																									
Total Project Cost:	\$4,000,000.00																								
*Start of Const. (Year):	2022																								

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

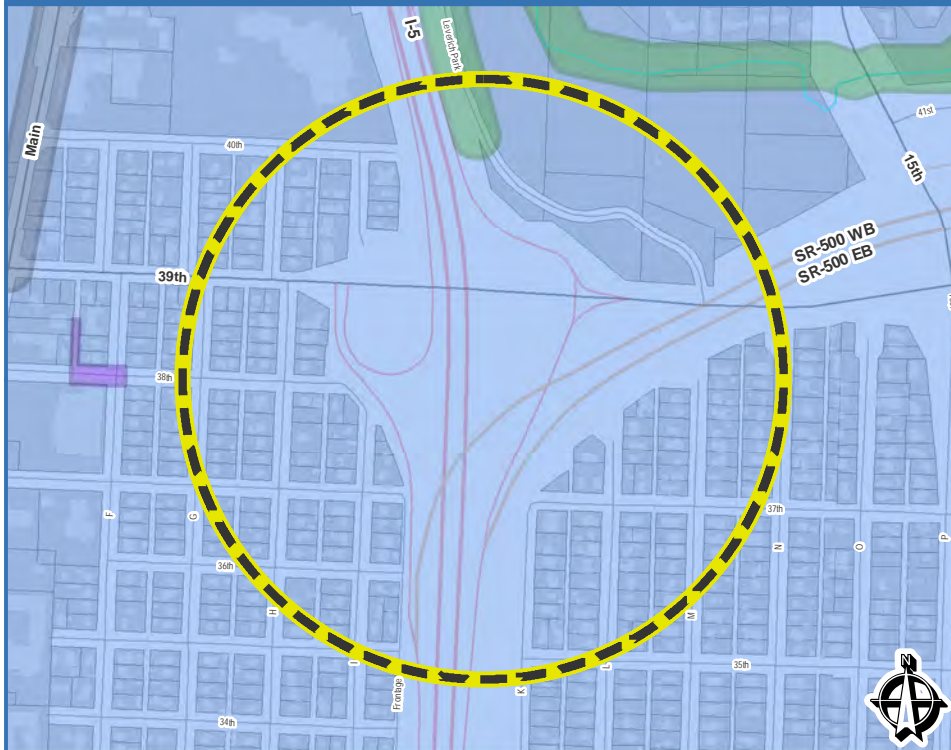
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **SR 500/I-5 INTERCHANGE (MOVE 24")**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Waterline coordination for future I-5 Columbia River Crossing.

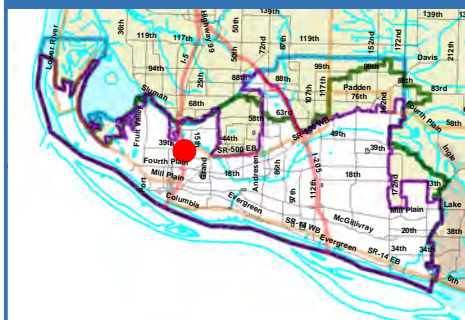
Project Justification

4 - Replace/preserve/rehabilitate existing water infrastructure. Budget for coordination with the WA State Department of Transportation Columbia River Crossing , & to protect and/or relocate existing water facilities which will be impacted by the State's proposed construction.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	TBD
Budget / Proj. Task #:	
Total Project Cost:	\$550,000.00
*Start of Const. (Year):	2026

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WATER STATION 3 RESERVOIR/TOWER/BOOSTER REPLACEMENT

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Water</td> </tr> <tr> <td>Project Type:</td> <td>Production</td> </tr> <tr> <td>Project Status:</td> <td>Active</td> </tr> </table>	Program/Discipline Type:	Water	Project Type:	Production	Project Status:	Active																		
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<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> Project Polys</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Building Footprints</td> <td> Washougal</td> </tr> <tr> <td> Water Project Areas</td> <td> Taxlots</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas	Clark County	Transportation Project Areas	Project Polys	Battle Ground	Sanitary Sewer Project Areas	Vancouver City Limits	Camas	Surface Water Project Areas	Building Footprints	Washougal	Water Project Areas	Taxlots		<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <table border="0"> <tr> <td>Budget / Proj. #:</td> <td>PRJ100492</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$16,920,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2022-2023</td> </tr> </table>	Budget / Proj. #:	PRJ100492	Budget / Proj. Task #:		Total Project Cost:	\$16,920,000.00	*Start of Const. (Year):	2022-2023
Project Area	SCIP Project Areas	Clark County																							
Transportation Project Areas	Project Polys	Battle Ground																							
Sanitary Sewer Project Areas	Vancouver City Limits	Camas																							
Surface Water Project Areas	Building Footprints	Washougal																							
Water Project Areas	Taxlots																								
Budget / Proj. #:	PRJ100492																								
Budget / Proj. Task #:																									
Total Project Cost:	\$16,920,000.00																								
*Start of Const. (Year):	2022-2023																								

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WATER STATION 3 - REPLACE WELLS 1 & 2 WITH ONE WELL

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Water</td> </tr> <tr> <td>Project Type:</td> <td>Production</td> </tr> <tr> <td>Project Status:</td> <td>Future</td> </tr> </table>	Program/Discipline Type:	Water	Project Type:	Production	Project Status:	Future																		
Program/Discipline Type:	Water																								
Project Type:	Production																								
Project Status:	Future																								
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> Project Polys</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Building Footprints</td> <td> Washougal</td> </tr> <tr> <td> Water Project Areas</td> <td> Taxlots</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas	Clark County	Transportation Project Areas	Project Polys	Battle Ground	Sanitary Sewer Project Areas	Vancouver City Limits	Camas	Surface Water Project Areas	Building Footprints	Washougal	Water Project Areas	Taxlots		<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <table border="0"> <tr> <td>Budget / Proj. #:</td> <td>TBD</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$1,700,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2025</td> </tr> </table>	Budget / Proj. #:	TBD	Budget / Proj. Task #:		Total Project Cost:	\$1,700,000.00	*Start of Const. (Year):	2025
Project Area	SCIP Project Areas	Clark County																							
Transportation Project Areas	Project Polys	Battle Ground																							
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Water Project Areas	Taxlots																								
Budget / Proj. #:	TBD																								
Budget / Proj. Task #:																									
Total Project Cost:	\$1,700,000.00																								
*Start of Const. (Year):	2025																								

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

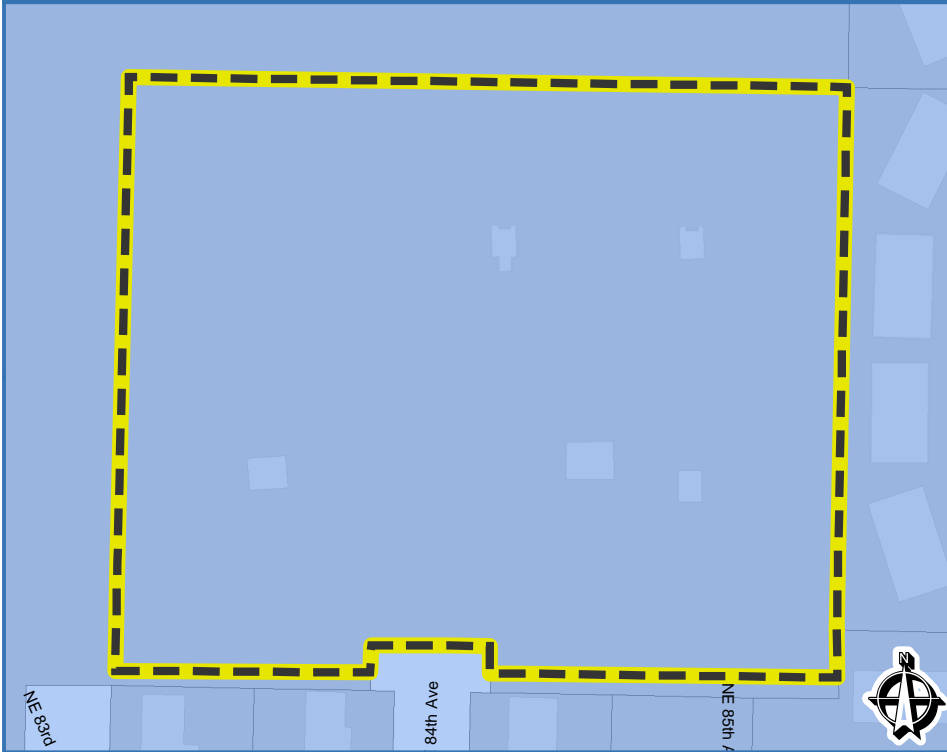
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **SODIUM HYPO GEN SYSTEM WS 15**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Replace WS 15 chlorine gas disinfection to a sodium hypochlorite system.

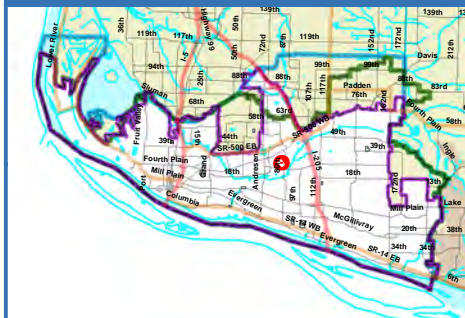
Project Justification

2 - Improves system safety by eliminating chlorine gas disinfection systems; and 5 - lowers operating costs. Chlorine gas disinfection systems are becoming more expensive to operate. This replaces the existing system at WS 15 with a standardized sodium hypochlorite generation system. The city has standardized a new technology and is upgrading all systems for maintenance consistency and reliability.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100495
Budget / Proj. Task #:	
Total Project Cost:	\$650,000.00
*Start of Const. (Year):	2022

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WATER STATION 4 - REPLACE WELL 4 BUILDING

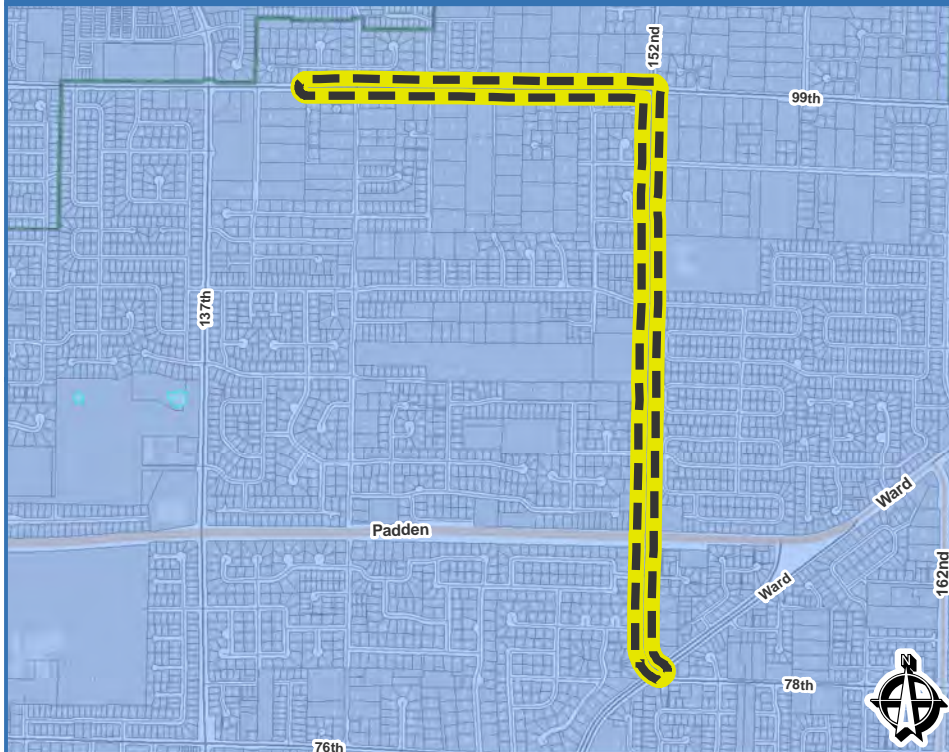
<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Water</td> </tr> <tr> <td>Project Type:</td> <td>Production</td> </tr> <tr> <td>Project Status:</td> <td>Active</td> </tr> </table>	Program/Discipline Type:	Water	Project Type:	Production	Project Status:	Active																		
Program/Discipline Type:	Water																								
Project Type:	Production																								
Project Status:	Active																								
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> Project Polys</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Building Footprints</td> <td> Washougal</td> </tr> <tr> <td> Water Project Areas</td> <td> Taxlots</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas	Clark County	Transportation Project Areas	Project Polys	Battle Ground	Sanitary Sewer Project Areas	Vancouver City Limits	Camas	Surface Water Project Areas	Building Footprints	Washougal	Water Project Areas	Taxlots		<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <table border="0"> <tr> <td>Budget / Proj. #:</td> <td>PRJ100240</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$510,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2020</td> </tr> </table>	Budget / Proj. #:	PRJ100240	Budget / Proj. Task #:		Total Project Cost:	\$510,000.00	*Start of Const. (Year):	2020
Project Area	SCIP Project Areas	Clark County																							
Transportation Project Areas	Project Polys	Battle Ground																							
Sanitary Sewer Project Areas	Vancouver City Limits	Camas																							
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Budget / Proj. #:	PRJ100240																								
Budget / Proj. Task #:																									
Total Project Cost:	\$510,000.00																								
*Start of Const. (Year):	2020																								
<p>*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water. **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.</p>		<p>39</p>																							



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **NE 99TH ST TRANS MAIN - NE 140TH AVE TO WARD RD.**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

Project Description

New transmission main to improve system capacity between WS 9 to WS 14.

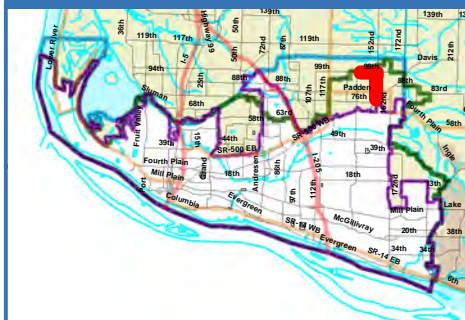
Project Justification

4 - New systems to increase transmission capacity as identified in last Water System Comp Plan. Add new transmission capacity as identified in last Water System Comp Plan, needed to move water from supply sources to areas with increasing demand. Budget continues onstruction of new transmission main intended to increase water transmission capacity from WS 9 to WS 14

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	TBD
Budget / Proj. Task #:	
Total Project Cost:	\$2,777,000.00
*Start of Const. (Year):	2023

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

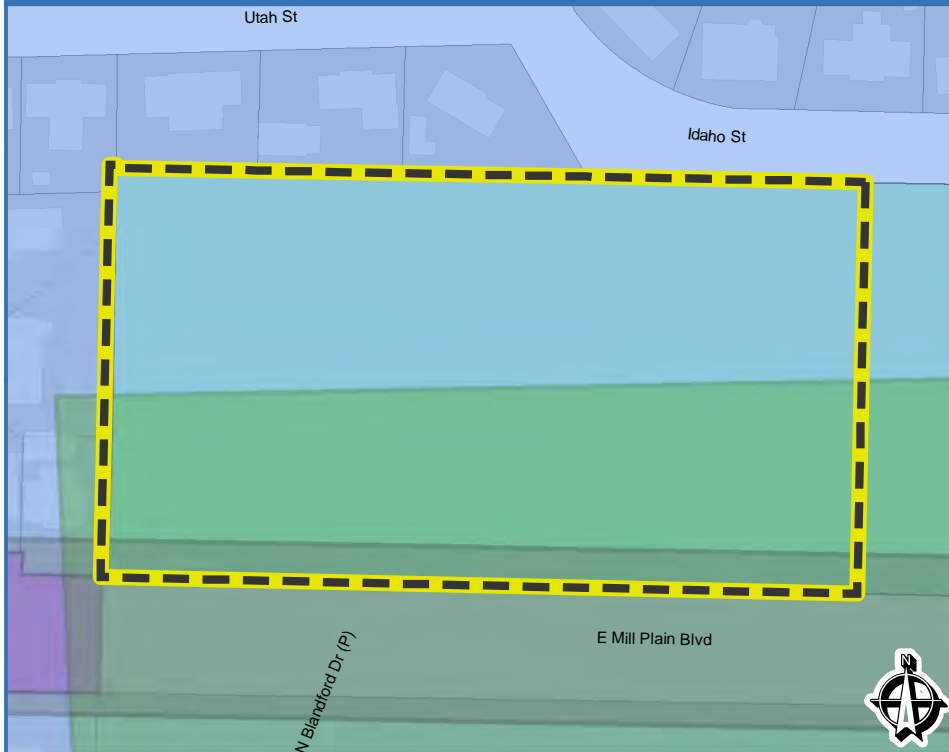
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WATER STATION 5 RESERVOIR, BOOSTER PUMPS & E-POWER

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace existing reservoir and expand pumping system at WS 5 to improve transmission capacity to service area in Heights High Pressure Zone.

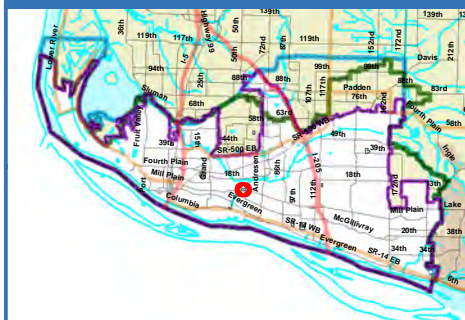
Project Justification

3 - New systems to provide additional capacity for future growth and improved reliability. Install additional pumping capacity at Water Station 5 to meet the growing demand and distribute more water to Heights High. Formerly listed as WTR-50

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PR100238
Budget / Proj. Task #:	
Total Project Cost:	\$30,600,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WS 7 HYPO GEN SYSTEM

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Water</p> <p>Project Type: Production</p> <p>Project Status: Future</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> Project Polys</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Building Footprints</td> <td> Washougal</td> </tr> <tr> <td> Water Project Areas</td> <td> Taxlots</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas	Clark County	Transportation Project Areas	Project Polys	Battle Ground	Sanitary Sewer Project Areas	Vancouver City Limits	Camas	Surface Water Project Areas	Building Footprints	Washougal	Water Project Areas	Taxlots		<h3>PROJECT DESCRIPTION</h3> <p>Project Description Replace/upgrade existing sodium hypochlorite disinfection system at WS 7.</p> <p>Project Justification 5 - Lower operating costs by replacing the existing sodium hypochlorite system with a new one. The city has a new standardized, disinfection technology and is upgrading all systems for maintenance consistency and reliability. Replacing the existing aging sodium hypochlorite system at WS 7 will reduce our annual operations and maintenance costs by reducing frequent repairs.</p>
Project Area	SCIP Project Areas	Clark County														
Transportation Project Areas	Project Polys	Battle Ground														
Sanitary Sewer Project Areas	Vancouver City Limits	Camas														
Surface Water Project Areas	Building Footprints	Washougal														
Water Project Areas	Taxlots															
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ100237</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$750,000.00</p> <p>*Start of Const. (Year): 2021</p>														

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

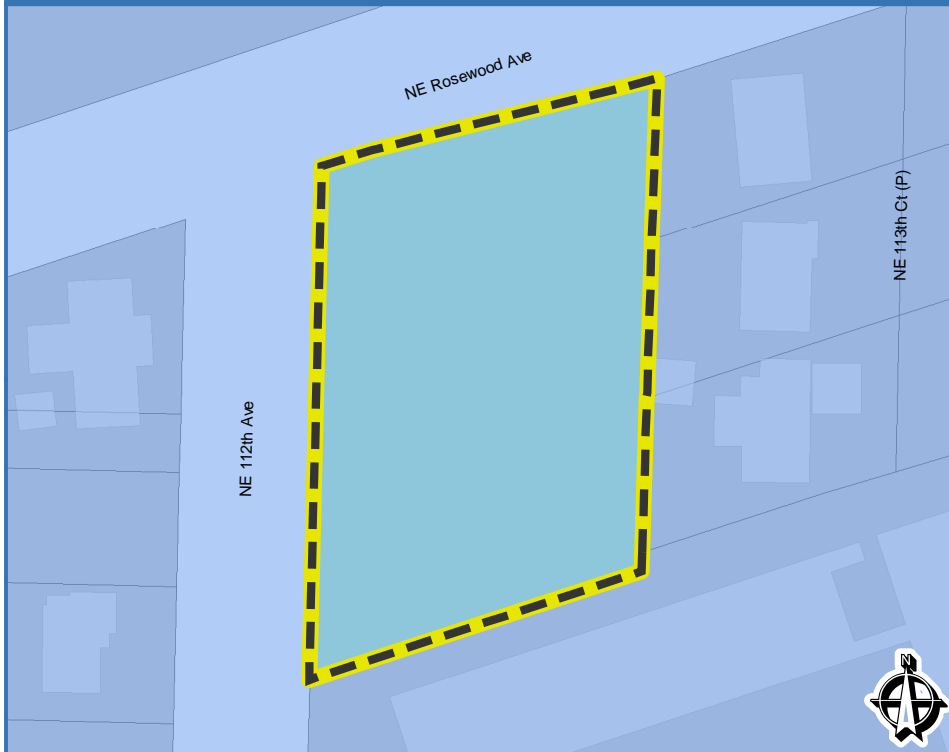
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WS 8 HYPO GEN SYSTEM

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace and upgrade existing sodium hypochlorite disinfection system at WS 8.

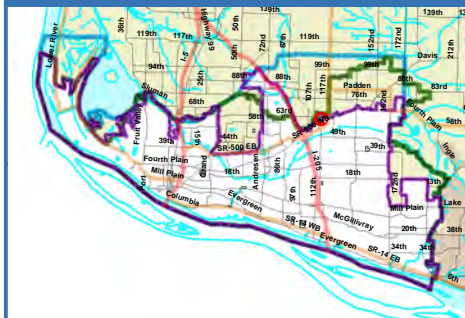
Project Justification

5 - Lower operating costs by replacing the existing sodium hypochlorite system with a new one. The city has a new standardized, disinfection technology and is upgrading all systems for maintenance consistency and reliability. Replacing the existing aging sodium hypochlorite system at WS 7 will reduce our annual operations and maintenance costs by reducing frequent repairs.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100239
Budget / Proj. Task #:	
Total Project Cost:	\$700,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WS 5 INTERNAL TOWER COATING

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Water Project Type: Production Project Status: Active</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> Project Polys</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Building Footprints</td> <td> Washougal</td> </tr> <tr> <td> Water Project Areas</td> <td> Taxlots</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas	Clark County	Transportation Project Areas	Project Polys	Battle Ground	Sanitary Sewer Project Areas	Vancouver City Limits	Camas	Surface Water Project Areas	Building Footprints	Washougal	Water Project Areas	Taxlots		<h3>PROJECT DESCRIPTION</h3> <p>Project Description Rehabilitate existing WS 5 Tower lining.</p> <p>Project Justification 4 - Replace/preserve/rehabilitate the internal coating for our existing elevated water tower, to extend asset life by preventing corrosion. Rehab existing lining for our aging elevated steel tank, to extend asset service life.</p>
Project Area	SCIP Project Areas	Clark County														
Transportation Project Areas	Project Polys	Battle Ground														
Sanitary Sewer Project Areas	Vancouver City Limits	Camas														
Surface Water Project Areas	Building Footprints	Washougal														
Water Project Areas	Taxlots															
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ100241 Budget / Proj. Task #: Total Project Cost: \$700,000.00 *Start of Const. (Year): 2024</p>														

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

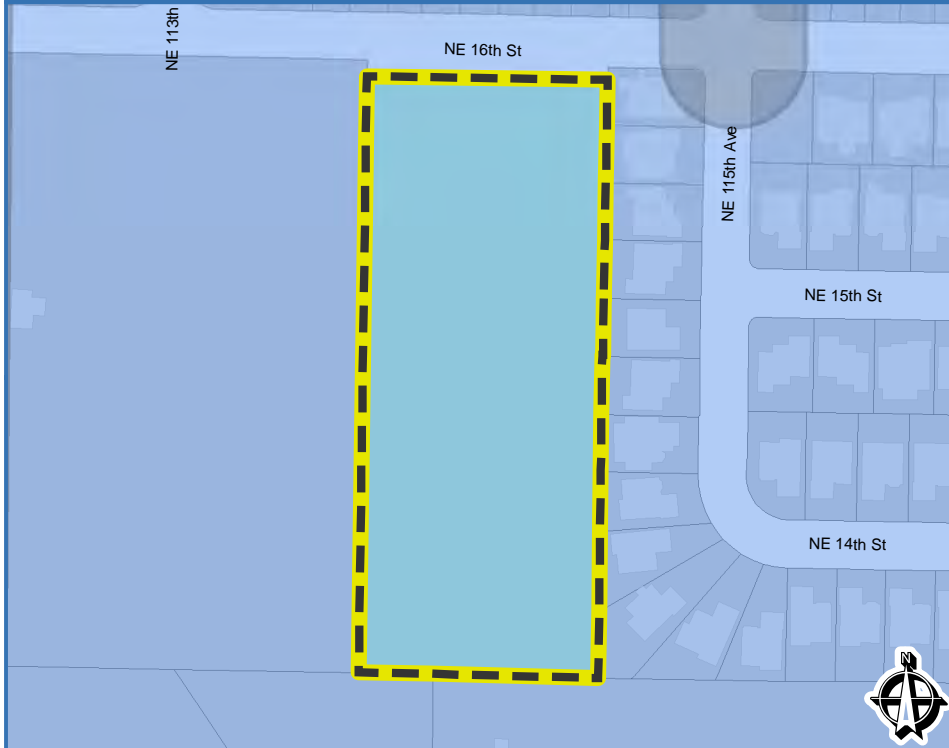
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WS 7 INTERNAL TOWER COATING

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Rehabilitate existing WS 7 tower lining.

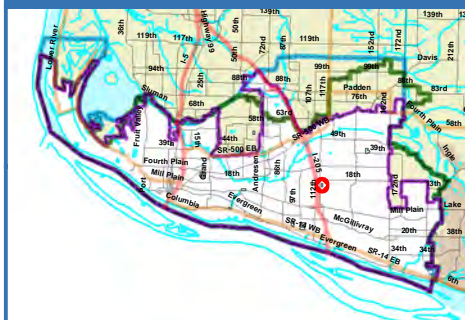
Project Justification

4 - Replace/preserve/rehabilitate the internal coating for our existing elevated water tower, to extend asset life by preventing corrosion. Rehab aging elevated steel tank lining to extend asset service life.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100494
Budget / Proj. Task #:	
Total Project Cost:	\$700,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **99TH ST TRANS MAIN - NE 94TH AVE TO NE 104TH AV**

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Water</p> <p>Project Type: Distribution</p> <p>Project Status: Active</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> Project Polys</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Building Footprints</td> <td> Washougal</td> </tr> <tr> <td> Water Project Areas</td> <td> Taxlots</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas	Clark County	Transportation Project Areas	Project Polys	Battle Ground	Sanitary Sewer Project Areas	Vancouver City Limits	Camas	Surface Water Project Areas	Building Footprints	Washougal	Water Project Areas	Taxlots		<h3>PROJECT DESCRIPTION</h3> <p>Project Description Roadway Coordination - Install 2500 l.f. of new 12" DI Water Main in new Clark County road extension of NE 99th St. across the former Leichner Landfill.</p> <p>Project Justification 3 - New systems to expand transmission capacity, providing additional capacity for future growth in farthest northeast portion of service area. Roadway Coordination - Install 2,500 l.f. of new 12" DI water main during construction of new roadway for Clark County CIP program.</p> <h3>VICINITY MAP</h3> <h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ083560</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$620,000.00</p> <p>*Start of Const. (Year): 2021</p>
Project Area	SCIP Project Areas	Clark County														
Transportation Project Areas	Project Polys	Battle Ground														
Sanitary Sewer Project Areas	Vancouver City Limits	Camas														
Surface Water Project Areas	Building Footprints	Washougal														
Water Project Areas	Taxlots															

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: 17TH ST. TO MCLOUGHLIN, "F" ST. TO I-5 (D-3)

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace 740 lf of substandard main with 740 lf of 8" Ductile Iron main.

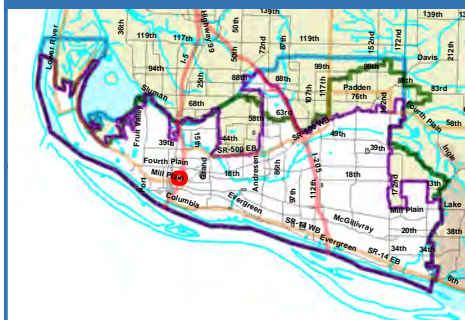
Project Justification

2 - Improve safety and reliability by addressing fire flow deficiencies. Install new pipelines to improve system reliability, & address system pressure & fire flow deficiencies as identified in our latest Water System Comprehensive Plan.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100497
Budget / Proj. Task #:	
Total Project Cost:	\$150,000.00
*Start of Const. (Year):	2022

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **WS #5 TO EVERGREEN -TRANS MAIN BLANDFORD (T-51)**

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Water</p> <p>Project Type: Distribution</p> <p>Project Status: Future</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> Project Polys</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Building Footprints</td> <td> Washougal</td> </tr> <tr> <td> Water Project Areas</td> <td> Taxlots</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas	Clark County	Transportation Project Areas	Project Polys	Battle Ground	Sanitary Sewer Project Areas	Vancouver City Limits	Camas	Surface Water Project Areas	Building Footprints	Washougal	Water Project Areas	Taxlots		<h3>PROJECT DESCRIPTION</h3> <p>Project Description Replace existing transmission main with 2,077 L.f. of new 30" ductile iron main.</p> <p>Project Justification 3 - new systems to expand existing transmission capacity. To address system pressure deficiencies as identified in the most recent Water System Comprehensive Plan, & provide additional capacity for future growth. Project budget to replace the existing transmission main, with 2,077 L.f. of new 30" ductile iron main.</p>
Project Area	SCIP Project Areas	Clark County														
Transportation Project Areas	Project Polys	Battle Ground														
Sanitary Sewer Project Areas	Vancouver City Limits	Camas														
Surface Water Project Areas	Building Footprints	Washougal														
Water Project Areas	Taxlots															
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: TBD</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$932,000.00</p> <p>*Start of Const. (Year): 2023</p>														

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **NE 9TH ST. TO NE 18TH ST, NE 112TH TO NE 129TH AVE (T-36)**

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Water</p> <p>Project Type: Distribution</p> <p>Project Status: Future</p>																															
<h3>LEGEND</h3> <table border="0"> <tr> <td></td> <td>Project Area</td> <td></td> <td>SCIP Project Areas</td> <td></td> <td>Clark County</td> </tr> <tr> <td></td> <td>Transportation Project Areas</td> <td></td> <td>Project Polys</td> <td></td> <td>Battle Ground</td> </tr> <tr> <td></td> <td>Sanitary Sewer Project Areas</td> <td></td> <td>Vancouver City Limits</td> <td></td> <td>Camas</td> </tr> <tr> <td></td> <td>Surface Water Project Areas</td> <td></td> <td>Building Footprints</td> <td></td> <td>Washougal</td> </tr> <tr> <td></td> <td>Water Project Areas</td> <td></td> <td>Taxlots</td> <td></td> <td></td> </tr> </table>		Project Area		SCIP Project Areas		Clark County		Transportation Project Areas		Project Polys		Battle Ground		Sanitary Sewer Project Areas		Vancouver City Limits		Camas		Surface Water Project Areas		Building Footprints		Washougal		Water Project Areas		Taxlots			<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: TBD</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$5,500,000.00</p> <p>*Start of Const. (Year): 2024</p>
	Project Area		SCIP Project Areas		Clark County																											
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*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: HAAGAN PARK, NORTH OF NE 9TH ST. (T-37)

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Water</p> <p>Project Type: Distribution</p> <p>Project Status: Future</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> Project Polys</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Building Footprints</td> <td> Washougal</td> </tr> <tr> <td> Water Project Areas</td> <td> Taxlots</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas	Clark County	Transportation Project Areas	Project Polys	Battle Ground	Sanitary Sewer Project Areas	Vancouver City Limits	Camas	Surface Water Project Areas	Building Footprints	Washougal	Water Project Areas	Taxlots		<h3>PROJECT DESCRIPTION</h3> <p>Project Description New waterline to cross Haagan Park, and install 670 lf of new 16" ductile iron main.</p> <p>Project Justification 3 - New systems to improve reliability and expand capacity across NE 9th St corridor. This adds capacity for future growth and improved reliability, and addresses pressure deficiencies as identified in our most recent Water System Comprehensive Plan.</p> <h3>VICINITY MAP</h3> <h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ100502</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$265,000.00</p> <p>*Start of Const. (Year): 2022</p>
Project Area	SCIP Project Areas	Clark County														
Transportation Project Areas	Project Polys	Battle Ground														
Sanitary Sewer Project Areas	Vancouver City Limits	Camas														
Surface Water Project Areas	Building Footprints	Washougal														
Water Project Areas	Taxlots															

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

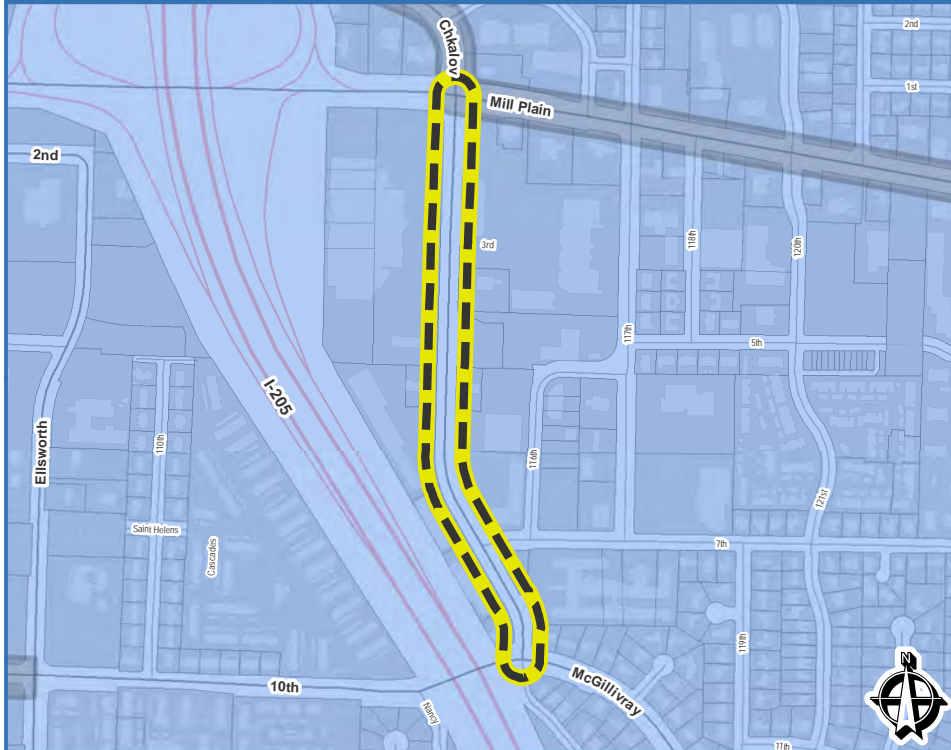
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **CHKALOV DR., S. OF MILL PLAIN BLVD (T-45)**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Replace existing substandard main with 1,350 lf of new 10" ductile iron main, and 1,110 lf of new 8" DI main.

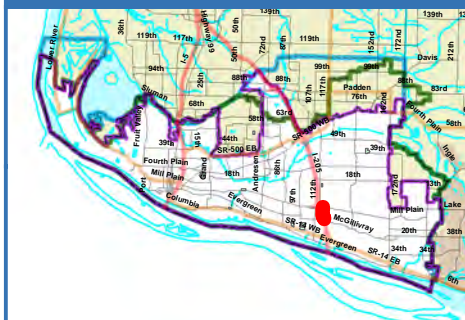
Project Justification

3 - New systems to replace existing mains. This adds additional capacity for future growth and improved reliability, and addresses pressure deficiencies as identified in our most recent Water System Comprehensive Plan.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	TBD
Budget / Proj. Task #:	
Total Project Cost:	\$515,000.00
*Start of Const. (Year):	2025

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **MILL PLAIN BLVD. - 124TH AVE TO 131ST AVE (T-46)**

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Water</td> </tr> <tr> <td>Project Type:</td> <td>Distribution</td> </tr> <tr> <td>Project Status:</td> <td>Future</td> </tr> </table>	Program/Discipline Type:	Water	Project Type:	Distribution	Project Status:	Future																		
Program/Discipline Type:	Water																								
Project Type:	Distribution																								
Project Status:	Future																								
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> Project Polys</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Building Footprints</td> <td> Washougal</td> </tr> <tr> <td> Water Project Areas</td> <td> Taxlots</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas	Clark County	Transportation Project Areas	Project Polys	Battle Ground	Sanitary Sewer Project Areas	Vancouver City Limits	Camas	Surface Water Project Areas	Building Footprints	Washougal	Water Project Areas	Taxlots		<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <table border="0"> <tr> <td>Budget / Proj. #:</td> <td>TBD</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$825,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2023</td> </tr> </table>	Budget / Proj. #:	TBD	Budget / Proj. Task #:		Total Project Cost:	\$825,000.00	*Start of Const. (Year):	2023
Project Area	SCIP Project Areas	Clark County																							
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Sanitary Sewer Project Areas	Vancouver City Limits	Camas																							
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Budget / Proj. Task #:																									
Total Project Cost:	\$825,000.00																								
*Start of Const. (Year):	2023																								
<p>*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water. **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.</p>		<p>52</p>																							



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: VANCOUVER LOW PRESSURE ZONE REZONE SOUTH OF WATER STATION #1

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Water</td> </tr> <tr> <td>Project Type:</td> <td>Production</td> </tr> <tr> <td>Project Status:</td> <td>Future</td> </tr> </table>	Program/Discipline Type:	Water	Project Type:	Production	Project Status:	Future																		
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Project Area	SCIP Project Areas	Clark County																							
Transportation Project Areas	Project Polys	Battle Ground																							
Sanitary Sewer Project Areas	Vancouver City Limits	Camas																							
Surface Water Project Areas	Building Footprints	Washougal																							
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Budget / Proj. #:	PRJ100496																								
Budget / Proj. Task #:																									
Total Project Cost:	\$420,000.00																								
*Start of Const. (Year):	2022																								

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: SODIUM HYPO GENERATION SYSTEM WS #4

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Replace/upgrade the existing WS 4 disinfection.

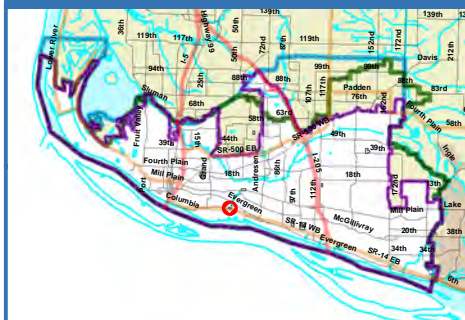
Project Justification

2 - Improves system safety by eliminating chlorine gas disinfection systems. 5 - Lower operating costs, by replacing the existing sodium hypochlorite system. Chlorine gas disinfection systems are becoming more expensive to operate. The city has standardized a new technology and is upgrading all systems for maintenance consistency and reliability. The existing chlorine gas system will be replaced with sodium hypochlorite technology, which costs less and is much safer for the community and operators.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	TBD
Budget / Proj. Task #:	
Total Project Cost:	\$1,200,000.00
*Start of Const. (Year):	2023

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: NE 45TH ST BOOSTER PUMP STATION REPLACEMENT

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Replace the existing pump station and booster pumps with a new pump station.

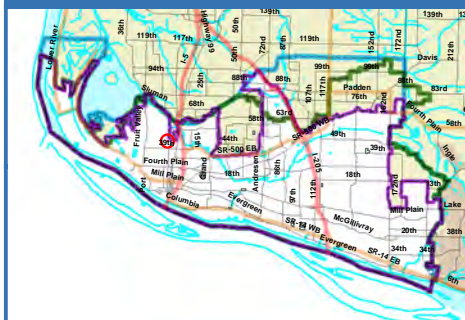
Project Justification

2 - Improve safety by replacing the current pump station and vault. The current pump station is old, difficult to maintain and located in a problematic vault. Project budget will replace the existing pump station with a new pump station that includes multiple correctly sized pumps located in a more accessible location.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	TBD
Budget / Proj. Task #:	
Total Project Cost:	\$1,750,000.00
*Start of Const. (Year):	2024

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

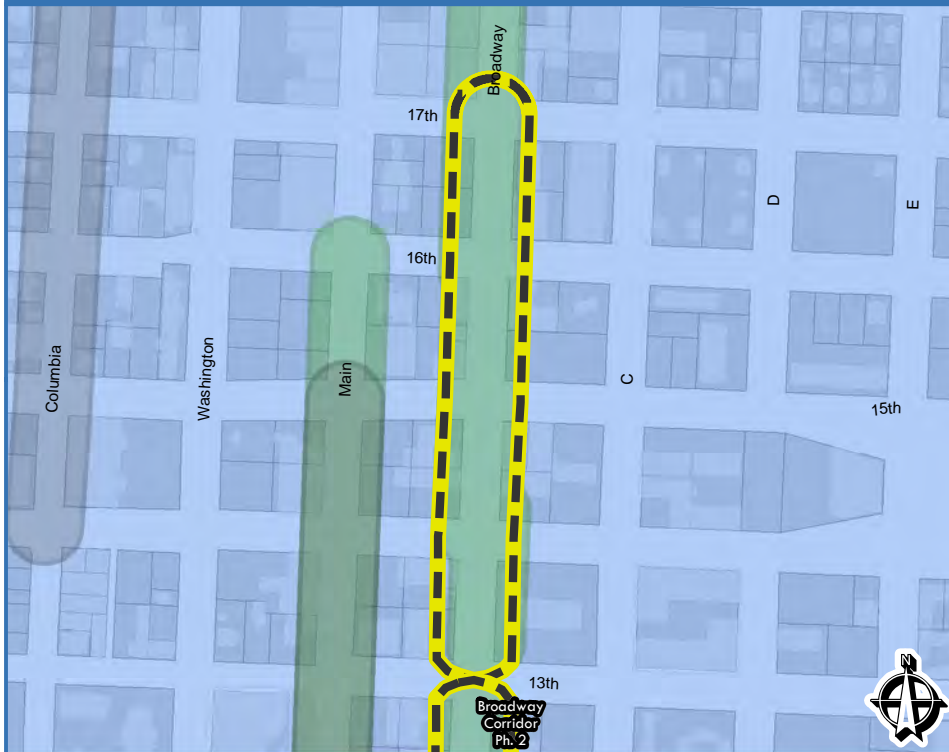
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **BROADWAY - PH 1 AND PH 2**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace existing water main with CI 52 Ductile Iron pipe. Phase 1 (13th to 17th St- PRJ0833556.) completed 2021, Phase 2 (6th to 13th St. -PRJ100590) scheduled 2022.

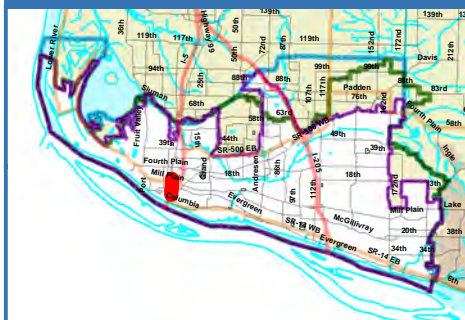
Project Justification

4- Replace/preserve/rehabilitate existing assets to extend service life. This project replaces aging water main in poor condition in this central downtown corridor. Project budget to install current standard CI 52 Ductile Iron, in preparation for 2022 street program preservation and repaving work.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100590
Budget / Proj. Task #:	
Total Project Cost:	\$830,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

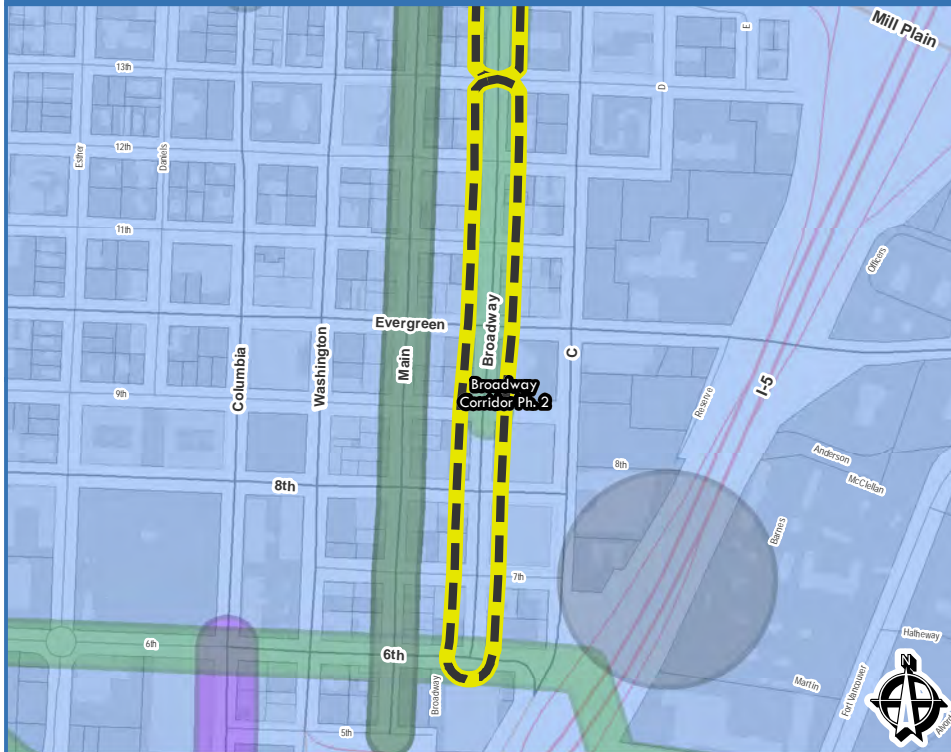
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: BROADWAY - PH 1 AND PH 2

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace existing water main with CI 52 Ductile Iron pipe. Phase 1 (13th to 17th St.-PRJ0833556.) completed 2021, Phase 2 (6th to 13th St. -PRJ100590) scheduled 2022.

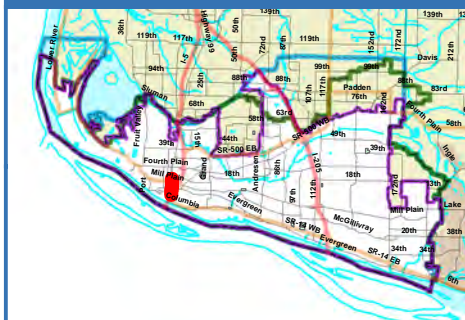
Project Justification

4- Replace/preserve/rehabilitate existing assets to extend service life. This project replaces aging water main in poor condition in this central downtown corridor. Project budget to install current standard CI 52 Ductile Iron, in preparation for 2022 street program preservation and repaving work.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100590
Budget / Proj. Task #:	
Total Project Cost:	\$830,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **52ND ST - DANIELS TO COLUMBIA (D-06)**

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Water</p> <p>Project Type: Distribution</p> <p>Project Status: Future</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> Project Polys</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Building Footprints</td> <td> Washougal</td> </tr> <tr> <td> Water Project Areas</td> <td> Taxlots</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas	Clark County	Transportation Project Areas	Project Polys	Battle Ground	Sanitary Sewer Project Areas	Vancouver City Limits	Camas	Surface Water Project Areas	Building Footprints	Washougal	Water Project Areas	Taxlots		<h3>PROJECT DESCRIPTION</h3> <p>Project Description Install new 1 600 lf 8" DI water main and abandon existin.</p> <p>Project Justification 3- New systems to correct pressure deficiency as identified in our current Water System Master Plan. Project budget to replace one block of existing main. Install 1600 LF of new 8" DI water line and abandon 1600 LF of 4 inch OD Steel water main. Staff utilized a criticality matrix to prioritize pipes at highest risk for leaks and line breaks. This will replace aging waterlines which have exceeded their life expectancy and have a history of breakage.</p>
Project Area	SCIP Project Areas	Clark County														
Transportation Project Areas	Project Polys	Battle Ground														
Sanitary Sewer Project Areas	Vancouver City Limits	Camas														
Surface Water Project Areas	Building Footprints	Washougal														
Water Project Areas	Taxlots															
<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ100498</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$450,000.00</p> <p>*Start of Const. (Year): 2021</p>															

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

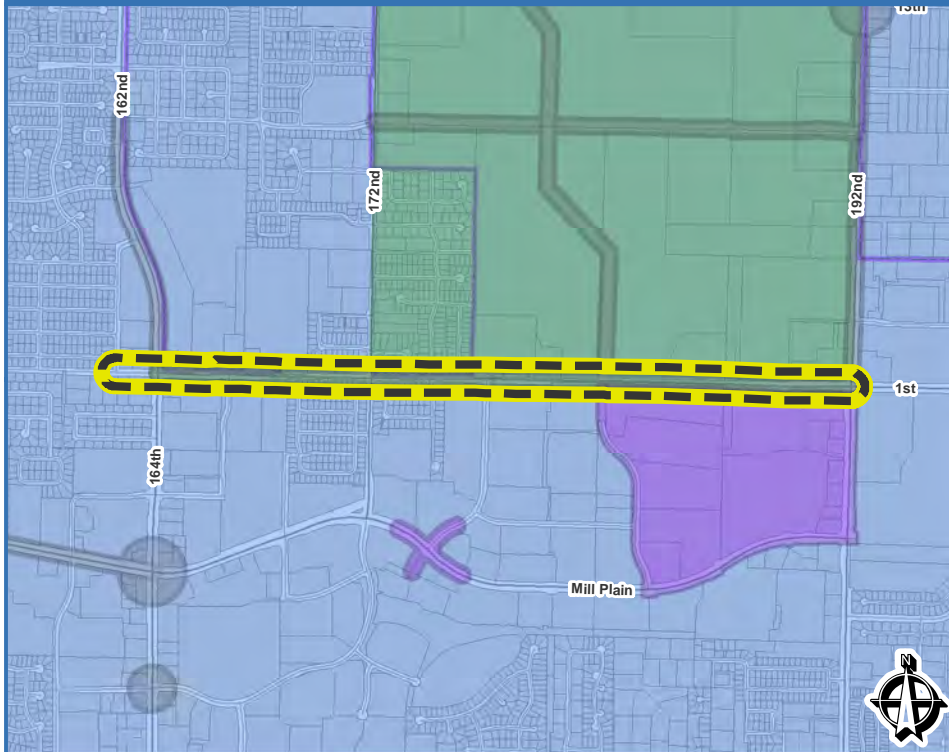
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: SE 1ST ST - SE 162ND AVE TO SE 192ND AVE

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Roadway Coordination project to install 1,800 lf of watermain.

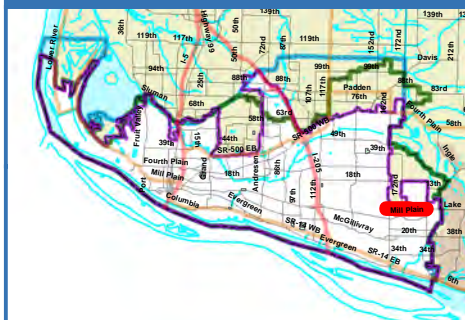
Project Justification

3- New systems to correct pressure deficiency as identified in our current Water System Master Plan. To install new main during this Roadway Coordination project for SE 1st Improvements– SE 164th to SE 192nd Ave. Project budget to install 1 800 lf of new 12" ductile iron waterline.

LEGEND

Project Area	SCIP Project Areas	Battle Ground
Transportation Project Areas	Project Polys	Camas
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal
Surface Water Project Areas	Taxlots	
Water Project Areas	Clark County	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100270
Budget / Proj. Task #:	
Total Project Cost:	\$360,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

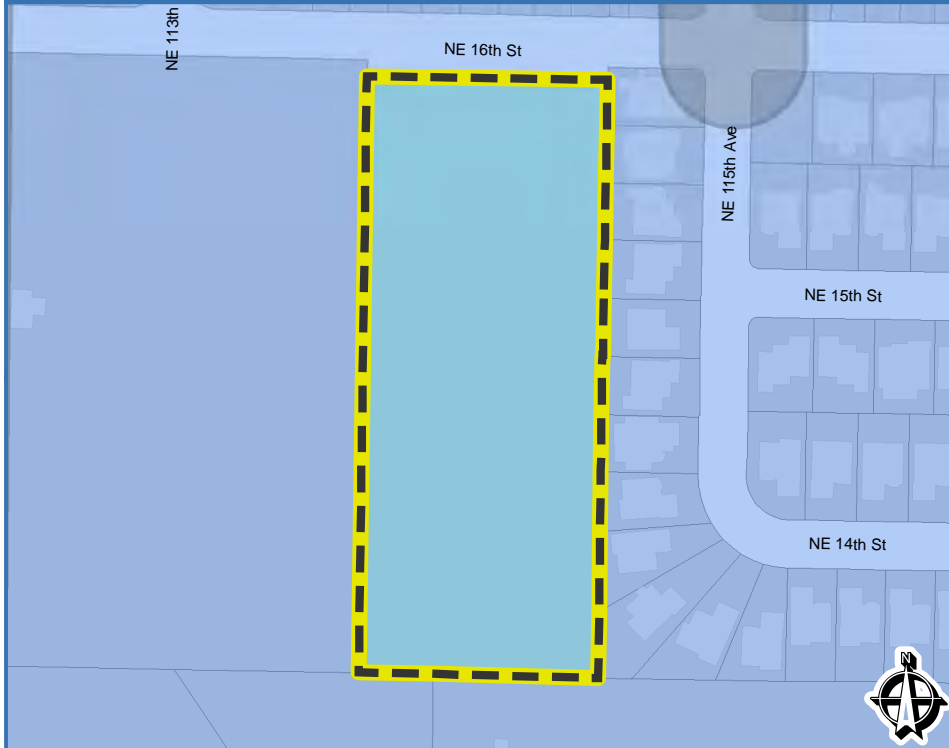
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WATER STATION #7 GREENSAND

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Remove and replace greensand filter media at WS 7.

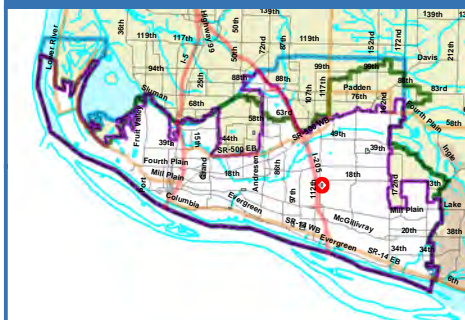
Project Justification

4 - Replace/preserve/rehabilitate existing assets to extend service life. Scheduled replacement for greensand filter media, which loses reliability over time, to continue providing reliable water system operations.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	TBD
Budget / Proj. Task #:	
Total Project Cost:	\$250,000.00
*Start of Const. (Year):	2026

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: ELLSWORTH WELL REPLACEMENT

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Water</td> </tr> <tr> <td>Project Type:</td> <td>Production</td> </tr> <tr> <td>Project Status:</td> <td>Future</td> </tr> </table>	Program/Discipline Type:	Water	Project Type:	Production	Project Status:	Future																		
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Project Area	SCIP Project Areas	Clark County																							
Transportation Project Areas	Project Polys	Battle Ground																							
Sanitary Sewer Project Areas	Vancouver City Limits	Camas																							
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Budget / Proj. #:	TBD																								
Budget / Proj. Task #:																									
Total Project Cost:	\$4,500,000.00																								
*Start of Const. (Year):	2027																								

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

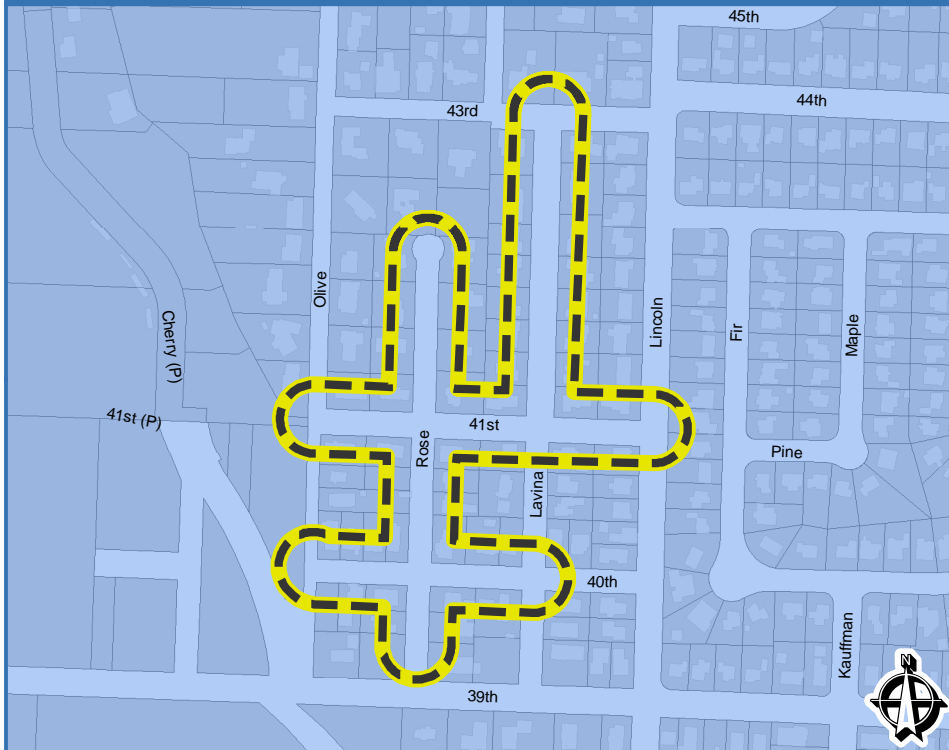
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **NW LAVINA ST. & 42ND ST**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Install 1600 LF of new 8" DI water line and abandon existing.

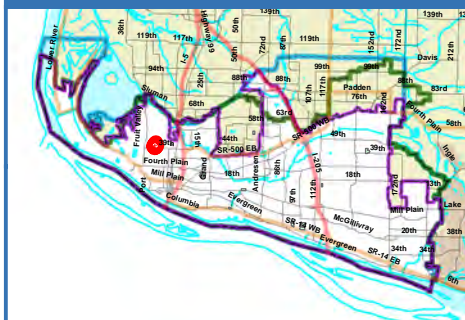
Project Justification

4 - Replace/preserve/rehabilitate existing assets to extend service life. Install 1600 LF of new 8" DI water line and abandon 1600 LF of 4 inch OD Steel water mains. Staff utilized a criticality matrix to prioritize pipes at highest risk for leaks and line breaks. This will replace aging waterlines which have exceeded their life expectancy and have a history of breakage.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100505
Budget / Proj. Task #:	
Total Project Cost:	\$640,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: ELLSWORTH ROOF REPLACEMENT

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Water</td> </tr> <tr> <td>Project Type:</td> <td>Production</td> </tr> <tr> <td>Project Status:</td> <td>Future</td> </tr> </table>	Program/Discipline Type:	Water	Project Type:	Production	Project Status:	Future																		
Program/Discipline Type:	Water																								
Project Type:	Production																								
Project Status:	Future																								
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> Project Polys</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Building Footprints</td> <td> Washougal</td> </tr> <tr> <td> Water Project Areas</td> <td> Taxlots</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas	Clark County	Transportation Project Areas	Project Polys	Battle Ground	Sanitary Sewer Project Areas	Vancouver City Limits	Camas	Surface Water Project Areas	Building Footprints	Washougal	Water Project Areas	Taxlots		<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <table border="0"> <tr> <td>Budget / Proj. #:</td> <td>PRJ100503</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$700,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2021</td> </tr> </table>	Budget / Proj. #:	PRJ100503	Budget / Proj. Task #:		Total Project Cost:	\$700,000.00	*Start of Const. (Year):	2021
Project Area	SCIP Project Areas	Clark County																							
Transportation Project Areas	Project Polys	Battle Ground																							
Sanitary Sewer Project Areas	Vancouver City Limits	Camas																							
Surface Water Project Areas	Building Footprints	Washougal																							
Water Project Areas	Taxlots																								
Budget / Proj. #:	PRJ100503																								
Budget / Proj. Task #:																									
Total Project Cost:	\$700,000.00																								
*Start of Const. (Year):	2021																								

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: JEFFERSON ST. REALIGNMENT - W. EVERGREEN TO W. MILL PLAIN

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Water</p> <p>Project Type: Distribution</p> <p>Project Status: Future</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> Project Polys</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Building Footprints</td> <td> Washougal</td> </tr> <tr> <td> Water Project Areas</td> <td> Taxlots</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas	Clark County	Transportation Project Areas	Project Polys	Battle Ground	Sanitary Sewer Project Areas	Vancouver City Limits	Camas	Surface Water Project Areas	Building Footprints	Washougal	Water Project Areas	Taxlots		<h3>PROJECT DESCRIPTION</h3> <p>Project Description Roadway Coordination project (TRANS-531) to install 1,800 lf of watermain and abandon existing.</p> <p>Project Justification 4 - Replace/preserve/rehabilitate existing assets to extend service life. Waterline rehabilitation in coordination with Transportation program project.</p> <h3>VICINITY MAP</h3> <h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: TBD</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$150,000.00</p> <p>*Start of Const. (Year): 2023</p>
Project Area	SCIP Project Areas	Clark County														
Transportation Project Areas	Project Polys	Battle Ground														
Sanitary Sewer Project Areas	Vancouver City Limits	Camas														
Surface Water Project Areas	Building Footprints	Washougal														
Water Project Areas	Taxlots															

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

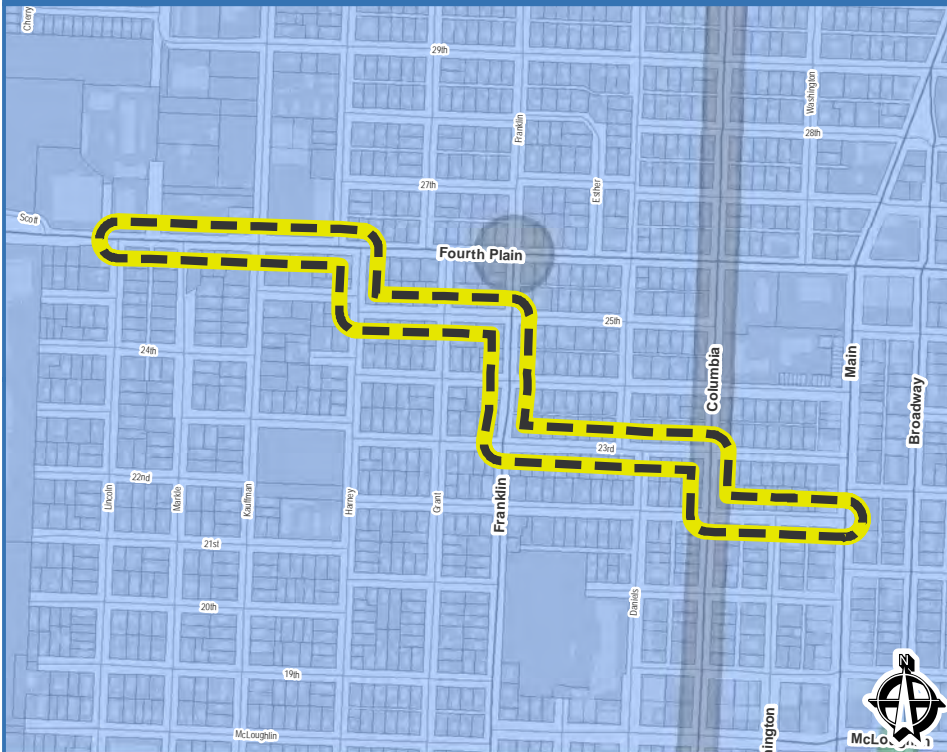
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: LINCOLN AVE. TO MAIN ST. TRANSMISSION MAIN (T-4, T-5 AND T-6)

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Install new transmission main for improved fireflow and pressure in Lincoln High Pressure Zone.

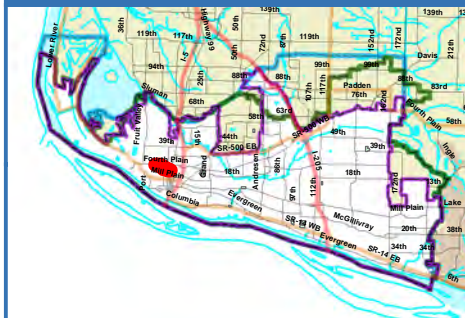
Project Justification

This project scope now includes three formerly separate CIP projects, these were WTR-123 - Daniels to Main St (T-4); WTR-125 - 4th Plain Blvd & 25th St, Lincoln to Grant (T-5); and WTR-126 - 25th St, Grant to Franklin ST (T-6)

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100499
Budget / Proj. Task #:	
Total Project Cost:	\$900,000.00
*Start of Const. (Year):	2022

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **BNSF FOURTH PLAIN TRANSMISSION (T-3)**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replacement along existing corridor for capacity & pressure

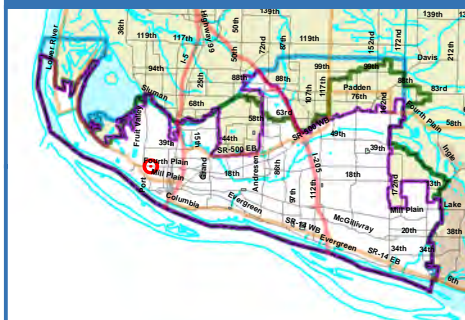
Project Justification

4 - Replace/preserve/rehabilitate existing assets to extend service life.

LEGEND

Project Area	SCIP Project Areas	Clark County
Transportation Project Areas	Project Polys	Battle Ground
Sanitary Sewer Project Areas	Vancouver City Limits	Camas
Surface Water Project Areas	Building Footprints	Washougal
Water Project Areas	Taxlots	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	
Budget / Proj. Task #:	
Total Project Cost:	\$2,300,000.00
*Start of Const. (Year):	2022

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

Project Description	Project Number	CIP #	2021**	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	Total	
448 Water Construction Fund																										
Water Production Projects																										
PRODUCTION PROJECTS BY WELLFIELD:																										
Water Station 1 - Two 4 MG Reservoirs & Standpipe	PRJ083462	WTR-39	8,700,000	1,931,000																					1,931,000	
Water Station 1: Replace Wells 3, 4, and 5	PRJ100490	WTR-44		1,000,000	3,000,000																				4,000,000	
Water Station 3 Reservoir/Tower/Booster Replace	PRJ100492	WTR-53		627,553	800,000	10,000,000	6,420,000	500,000																	18,347,553	
Water Station 3 Replace Wells 1 & 2 with one well	TBD	WTR-54										1,700,000													1,700,000	
Sodium Hypo Gen System WS 4	TBD	WTR-145			1,200,000																				1,200,000	
Water Station 4 Replace Well 1	TBD	WTR-43												1,500,000											1,500,000	
Water Station 4 Well 4 Building Replacement	PRJ100240	WTR-67	510,000	885,818																					885,818	
WS 5 Reservoir Pump, E-Power	PRJ100238	WTR-101	3,369,000	13,000,000	11,800,000	4,700,000																			29,500,000	
WS 5 Tower Internal Coating	PRJ100241	WTR-106				630,000																			630,000	
Water Station 5 Tank Upgrades and Ext Blast & Coating	TBD	---											2,500,000												2,500,000	
Water Station 6 Well/Treatment Install	TBD	WTR-69											2,000,000	1,000,000											3,000,000	
Water Station 6 Tank Upgrades and Ext Blast & Coating	TBD	---																							1,800,000	
WS 7 Hypo Gen System	PRJ100237	WTR-103	750,000	800,842																					800,842	
Water Station 7 Greensand	TBD	WTR-154						250,000																	250,000	
WS 7 Tower Internal Coating	PRJ100494	WTR-108	700,000	884,894																					884,894	
WS 7 Tank Upgrades and Ext OverCoat	TBD	---																							2,000,000	
WS 7 Water Right Well	TBD	---												2,000,000											2,000,000	
Water Station 8 Replace Wells 2 & 3	TBD	---								1,200,000	1,200,000														2,400,000	
WS 8 Hypo Gen System	PRJ100239	WTR-104	350,000	450,000	350,000																				800,000	
Sodium Hypo Gen System WS 15	PRJ100495	WTR-63			700,000																				700,000	
Water Station 15 Wells 1-4 Replacement	TBD	WTR-65								3,000,000	1,500,000														4,500,000	
WS 15 Water Right Wells/Treatment	TBD	---																	8,000,000						8,000,000	
Sodium Hypo Gen System Ellsworth	PRJ100493	WTR-64		1,001,889	850,000																				1,851,889	
Ellsworth Well Rehabilitation	TBD	WTR-16						300,000						300,000											1,100,000	
Ellsworth Greensand Replacement	TBD	WTR-155																							1,000,000	
Ellsworth Well Replacement	TBD	WTR-156								4,500,000															4,500,000	
Ellsworth Roof Replacement	PRJ100503	WTR-160	700,000	695,393																					695,393	
Westside Wellfield Property	TBD	WTR-A1-24												2,000,000											2,000,000	
Westside Wellfield Construction	TBD	WTR-A1-24																	2,000,000	7,000,000	10,000,000	5,000,000			24,000,000	
PRODUCTION PROJECTS - OTHER:																										
Rezone Project for Vanc Low and Vanc High	PRJ100245	WTR-A1-114		50,000																					50,000	
NE 45th St Booster Pump Station Replace	TBD	WTR-146				1,750,000																			1,750,000	
Study for Adding a 4th Pump at St. Johns	TBD	---						10,000																	10,000	
Study for Additional HH Tanks	TBD	---										20,000													20,000	
Heights High Groundwater Development	TBD	---	200,000	199,576	50,000																				249,576	
Reservoir Install Southeast	TBD	---												1,000,000	4,500,000	2,500,000									8,000,000	
Standpipe in NE	TBD	---													200,000	3,000,000									3,200,000	
System MCC Electrical Upgrades	TBD	WTR-166						3,000,000	3,000,000	2,000,000									3,000,000	3,000,000	3,000,000				17,000,000	
Treatment Regulations Compliance	TBD	WTR-A1-23																		2,000,000	2,000,000					4,000,000
PFAS Studies	PRJ100640	WTR-A1-23	1,000,000	948,520																					948,520	
PFAS Treatment	TBD	WTR-167						5,000,000	20,000,000	20,000,000	20,000,000	20,000,000	15,000,000												100,000,000	
SCADA Projects																										
SCADA Firewall/Security/Data Concent/PLC Software	PRJ100267	WTR-A1-29	290,000	124,601																					124,601	
SCADA PLC/HMI Upgrade	PRJ100504	WTR-A1-29		45,000	104,000	31,000														40,000	70,000	204,000			494,000	
SCADA Software	PRJ100268	WTR-A1-29	129,000			16,000	216,000	23,000	204,000			53,000	41,000									216,000	113,000		882,000	
Water Distribution Projects																										
PRV Flowmeters/SCADA System Connections	PRJ083332	WTR-A1-12		112,676																					112,676	
Broadway - PH 1 (13th to 17th St)	PRJ083556	WTR-150		211,778	375,000																				375,000	
Water Main NE 49th St - NE 15th Ave to 40th Ave	PRJ100269	WTR-36		1,125,000	1,745,197																				1,745,197	
99th St Extension, NE 94th Ave to NE 104th Ave County	PRJ083560	WTR-109		600,000	585,278																				585,278	
17th St. to McLoughlin Blvd., F St. to I-5 (D-3)	PRJ100497	WTR-115		150,000	145,760																				145,760	
*SE 1st St - 164th Ave. to 192nd Ave.	PRJ100270	WTR-153			355,000																				355,000	
VL Rezone South of WS 1	PRJ100496	WTR-143		420,000																					420,000	
SCIP Coordination Projects	PRJ083563	WTR-A1-10	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	1,600,000	1,600,000	1,000,000	1,700,000	1,700,000	1,000,000	1,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	29,900,000	
Leak Abatement	PRJ100244	WTR-A1-3		100,000	1,000,000	600,000	600,000	1,000,000	1,000,000	1,600,000	1,600,000	1,000,000	1,700,000	1,700,000	1,000,000	1,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	29,900,000	
Water Demand Response	PRJ083553	WTR-A1-27	30,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	500,000	500,000	500,000	7,900,000	
99th St Transmission Main - NE 140th Ave. to Ward Rd	TBD	WTR-96		30,000	2,777,000																				2,807,000	
SR 500/I-5 Interchange (move 24")	TBD	WTR-49						550,000																	550,000	
Lower Grand Industrial Area	PRJ100439	WTR-163	56,000	54,329																					54,329	
Evergreen Blandford to Sleret 12" Replacement	TBD	---												1,200,000											1,200,000	
NW Lavina St & 42nd St. (#7)	PRJ100505	WTR-157	80,000	773,307																					773,307	
Jefferson St. Realignment	TBD	WTR-161			10,000	140,000																			150,000	
NE 46th St at NE 28th Ave (#20)	PRJ100410	---	40,000	34,605																					34,605	
52nd St - Daniels to Columbia (D-06)	PRJ100498	WTR-152		45,000	39,958																					

Sewer Utility



Sewer Utility Recent Financial History



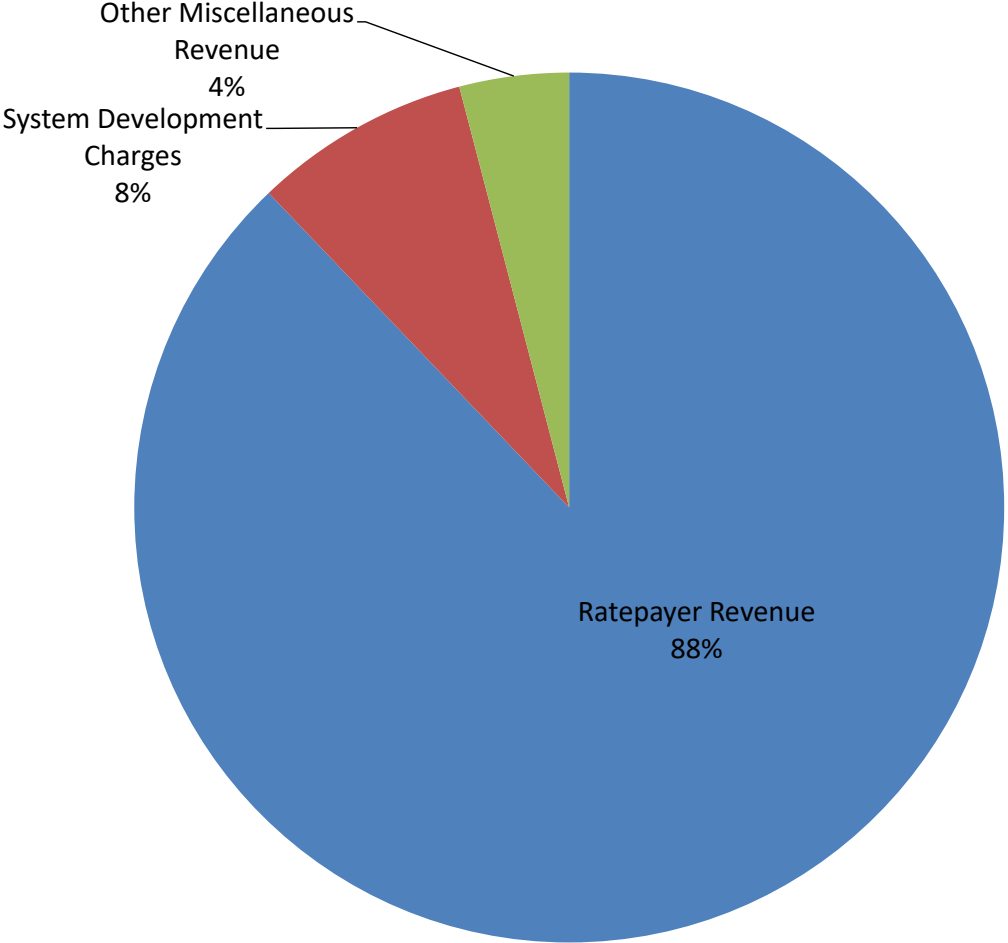
**SEWER FUND ACTIVITY
(2014-2020)**

	2014	2015	2016	2017	2018	2019	2020
Revenue							
Ratepayer Revenue	38,560,932	39,398,594	41,047,713	44,097,502	46,221,354	48,488,415	49,513,910
System Development Charges	2,305,002	3,512,883	3,746,572	3,388,484	5,392,397	4,260,484	4,550,640
Loan from 448						-	-
Transfer from 449		1,481,178	320,000		300,000	300,000	300,000
Transfer from 445						-	-
Grants	-					-	197,404
Other Miscellaneous Revenue*	1,262,608	1,326,636	1,580,359	1,429,444	1,821,082	5,169,520	1,794,262
Total Revenue	42,128,542	45,719,291	46,694,644	48,915,430	53,734,833	58,218,419	56,356,216
Expenses							
Salaries and Benefits	3,282,642	3,534,554	3,825,615	4,092,566	4,326,158	4,591,536	4,574,490
Supplies and Services	597,701	783,576	2,403,694	2,441,737	2,514,704	2,853,900	2,533,899
Treatment Plant Operations	9,737,910	10,451,933	7,272,743	9,653,370	8,429,429	10,094,217	7,888,373
Professional Services	829,260	167,866	434,346	441,504	1,630,039	419,763	646,781
Indirects and ER&R	2,091,019	2,344,593	3,451,753	3,706,889	3,732,695	3,987,416	3,713,252
Operations & Maintenance Expenses	16,538,532	17,282,522	17,388,151	20,336,066	20,633,025	21,946,832	19,356,795
Taxes and fees	8,438,083	8,639,218	9,695,006	11,567,646	12,505,146	14,461,569	15,680,236
Debt Service	11,281,751	10,804,118	10,248,093	7,564,975	6,927,123	4,320,185	4,325,680
Capital	412,178	759,811	2,382,843	6,526,165	6,601,298	12,802,915	12,486,861
Water Fund (Utilities Administration Allocation)	1,325,340	1,456,374	1,538,700	1,484,043	1,531,326	1,649,269	1,659,733
Expenses Subtotal	37,995,884	38,942,043	41,252,793	47,478,895	48,197,918	55,180,770	53,509,305
Depreciation	7,587,492	7,390,390	7,381,432	7,166,559	7,399,184	0	0
Total Expense	45,583,376	46,332,433	48,634,225	54,645,454	55,597,102	55,180,770	53,509,305

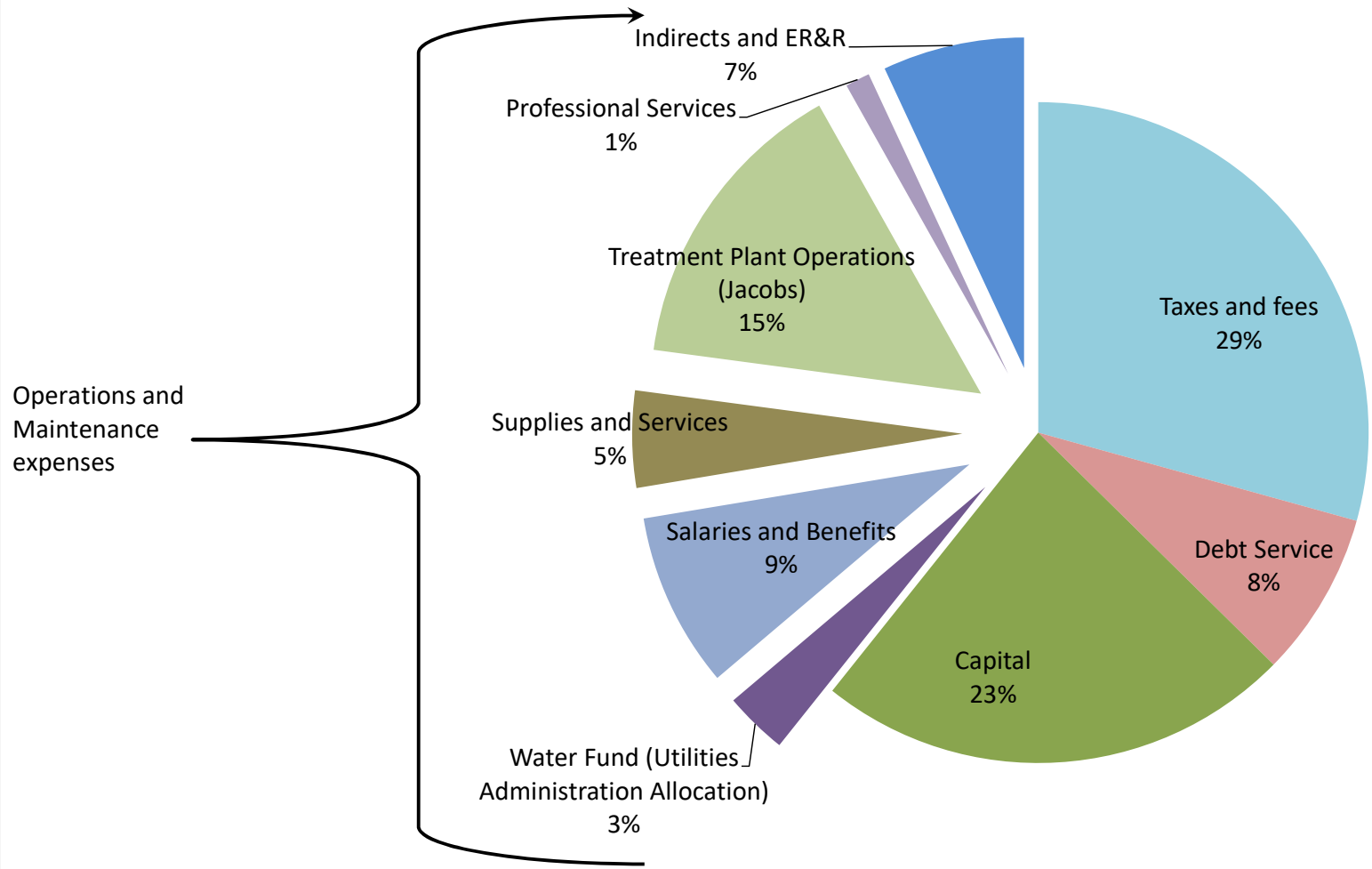
*Other Miscellaneous Revenues include items such as:

- Septic Tank Receiving
- Interest Earnings
- Latecomer Fees

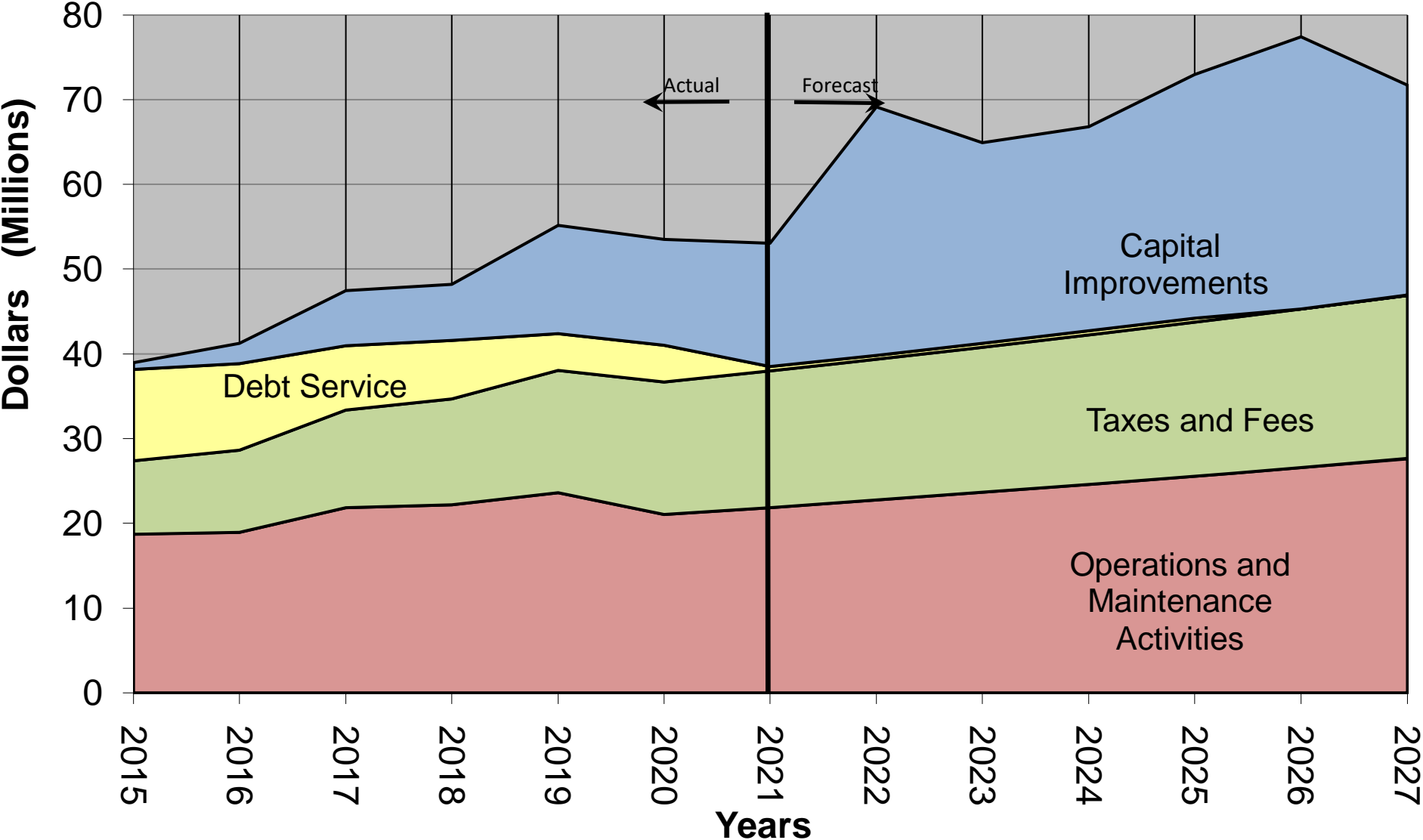
2020 Sewer Utility Revenues = \$56.2 million



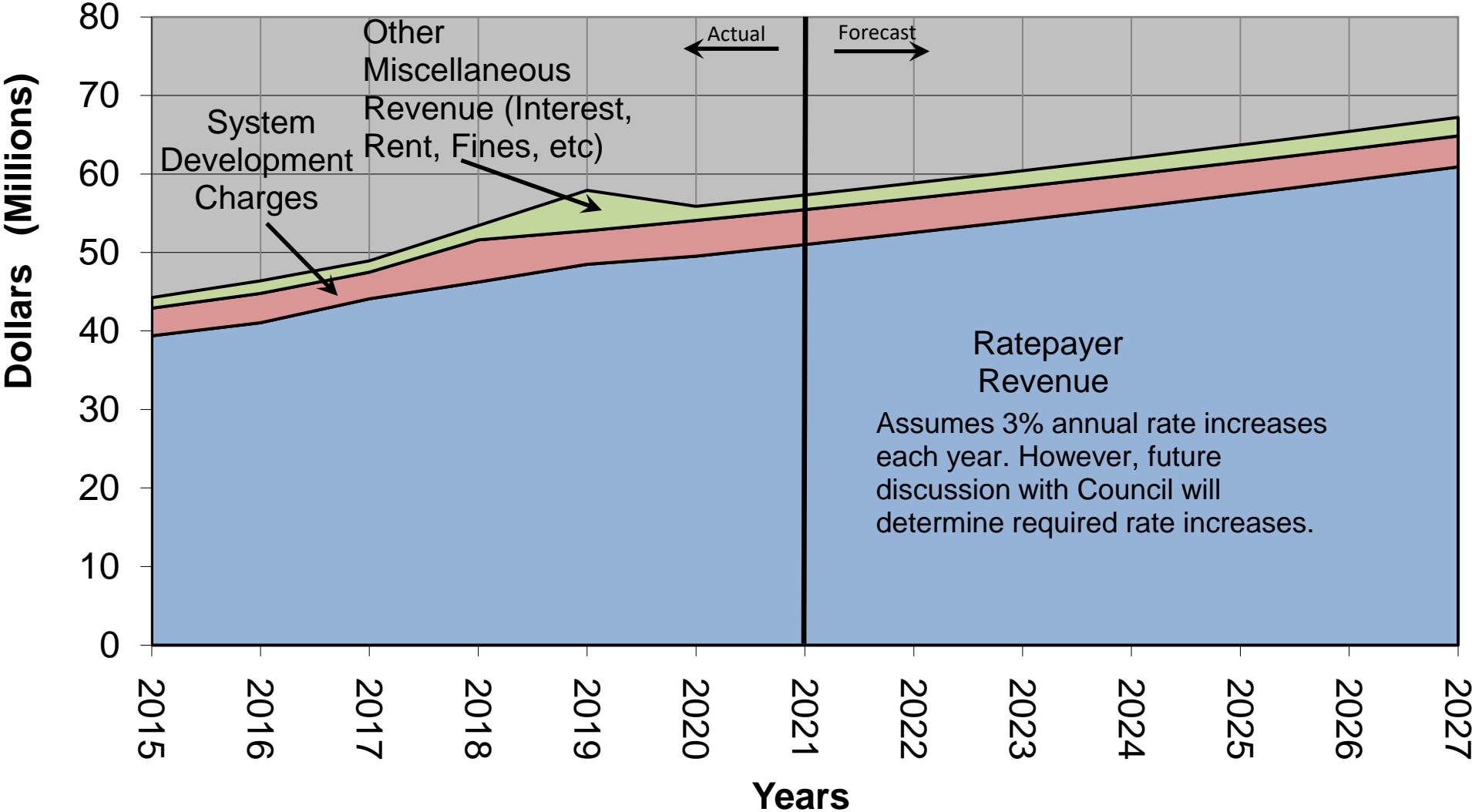
2020 Sewer Utility Expenses = \$53.5 million



Sewer Expenses (2015-2027)



Sewer Revenues (2015-2027)



Sewer Utility Project List



Sewer Utility CIP Changes

This page provides an overview of the changes from the previous 6-year project list (2021-2026) to this year's 6-year project list (2022-2027). The changes are segmented by: projects added; projects removed; and other.

Projects Added	Project Number	Comments
<u>COLLECTION SYSTEM:</u>		
4 th & Washington Sewer Replacement	SS-169	New in 2021
Earhart PS Removal and Gravity	SS-170	New in 2021
Maplecrest PS Reconstruction and FMA FM Extension	SS-172	New in 2021
Westridge PS & Fishers PS Discharge Reconst.	SS-173	New in 2021
Heights District Collections System Improvements	SS-182	Heights District Redevelopment
<u>Wastewater WRF:</u>		
WS Outfall Improvements	SS-171	New project for effluent mixing
WS Grit Classifier Replacement	SS-174	Equipment replacement – aging/worn equipment
WS Sodium Hypochlorite Delivery	SS-175	Operability and Safety upgrade
MP WRF Process Piping R&R	SS-176	\$1.2M for ongoing R&R for aging/worn process pipes
Marine Park Phase 3A	SS-177	To serve community growth
Marine Park Force Main	SS-178	Solids handling capacity improvement to serve growth
Marine Park Phase 3B	SS-181	Full site capacity final buildout
Westside Solids/Digesters	SS-179	New solids handling facility design starting 2027
WS WRF Process Piping R&R	SS-180	\$1.8M for ongoing R&R for aging/worn process pipes

Projects Removed	Project Number	Comments
<u>COLLECTION SYSTEM:</u>		
Basin B-4 Pump Station Removal (Sandcastle)	SS-8	Project removed from budget
GMA Pump Station Improvements	SS-21	Project scope now included in new SS-172
Southside Interceptor Phase 1	SS-152	Completed in 2021
<u>Wastewater WRF:</u>		
Air Gap/City Water Protection	SS-115	Completed in 2021
Marine Park Blower	SS-147	Completed in 2021
UV Design Consultant	SS-165	Project cancelled and scope now in SS-175
Lagoon Blower Upgrade	----	Combined with Lagoon Aeration Upgrade SS-102
Andresen Pump Station Upgrade	----	Completed in 2021
Marine Park WWTF/Primary Clarifier No. 3	----	Completed in 2021
Westside WWTF Buildings Coatings No 3	---	Completed in 2021
Westside Grit Re-route	SS-158	Project scope now included in SS-174

Other Changes (Budget/Schedule)	Project No.	Comments
<u>Collection System:</u>		
Capital Preservation – Collection System	SS-A1-6	6 yr. CIP plan increased by \$400K
<u>Wastewater (WRF):</u>		
BBC Pump Station Upgrade	SS-28	6 yr. CIP plan increased by \$2.3M
Westside Schwing Pump Replacements	SS-80	\$0.85M Project budget added for 2022
WS Replace Centrifuges	SS-87	Add'l \$2.6M budget added for project in 2024
WS Clarifier Center Well Upgrade 3,4,5	SS-116	Project and \$200K budget moved back to 2023
MP UV Upgrade	SS-157	Project budget moved ahead to 2022/2023 due to supplier discontinuing spare parts, budget added for new total of \$2,150,000
Marine Park Bar Screens Upgrade	SS-160	\$2M project budget added in 2025
WS Solids Planning	SS-167	\$1M Scoping and pre-design added 2022-2024

Project Name	Project Number	CIP #	2021**	2022	2023	2024	2025	2026	2027	Total
Collection										
Standby Power	PRJ083471	SS-A1-3	-	200,000	100,000	100,000	100,000	100,000	100,000	700,000
Main Street, 5th to 15th*	PRJ083583	SS-5	-	-	700,000	-	-	-	-	700,000
Heights District	TBD	SS-182	-	-	100,000	1,900,000	-	-	-	2,000,000
IR - Interceptor Rehabilitation	PRJ083584	SS-A1-135	-	1,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	11,000,000
Pinebrook Force Main Reroute	PRJ100474	SS-10	222,731	465,000	-	-	-	-	-	465,000
Manhole/Wye Rehabilitation	PRJ083588	SS-A1-138	-	100,000	100,000	100,000	100,000	100,000	100,000	600,000
Basin A-20-1 & Force Main Relocation (59th Street)	PRJ083589	SS-1	-	-	-	-	500,000	-	-	500,000
Capital Preservation - Collection System	PRJ083591	SS-A1-6	-	2,000,000	2,000,000	3,000,000	3,000,000	4,000,000	4,000,000	18,000,000
63rd St Pump Station re-build/relocate	PRJ083592	SS-140	1,284,210	500,000	-	-	-	-	-	500,000
SE 1st St. - SE 164th Ave. to SE 192nd Ave Design*	PRJ083594	SS-15	30,000	60,000	-	-	-	-	-	60,000
NE 137th Avenue - NE 49th St. to NE Fourth Plain Blvd.*	PRJ100251	SS-20	-	-	430,000	-	-	-	-	430,000
Broadway Ph 2	PRJ100396	SS-168	30,982	300,000	-	-	-	-	-	300,000
Section 30 Arterial Expansion*	PRJ100475	SS-23	-	-	-	-	-	-	-	-
Wastewater Collection SCADA	PRJ083711	SS-153	-	250,000	150,000	150,000	150,000	150,000	150,000	1,000,000
G1 - Trunk Interceptor Rehab	PRJ100260	SS-155	796,995	200,000	-	-	-	-	-	200,000
Port PS Rehabilitation	PRJ083744	SS-162	936,472	1,337,352	-	-	-	-	-	1,337,352
Southside Interceptor Rehab Ph 2	PRJ100261	SS-152	1,408,632	1,482,798	-	-	-	-	-	1,482,798
Southside Interceptor Rehab Ph 3	PRJ100262	SS-152	50,000	2,000,000	-	-	-	-	-	2,000,000
Southside Interceptor Rehab Ph 4	PRJ100476	SS-152	100,000	2,350,000	1,000,000	-	-	-	-	3,350,000
Southside Interceptor Rehab Ph 5	PRJ100477	SS-152	100,000	-	-	-	-	-	-	-
E - Interceptor Rehab PH 1	PRJ100478	SS-163	100,000	1,700,000	2,000,000	-	-	-	-	3,700,000
E - Interceptor Rehab PH 2	PRJ100479	SS-163	-	-	-	-	-	-	-	-
Burnt Bridge Creek Interceptor - Ph 1	TBD	SS-164	-	-	200,000	1,200,000	-	-	-	1,400,000
Burnt Bridge Creek Interceptor - Ph 2	TBD	SS-164	-	-	150,000	680,000	-	-	-	830,000
Burnt Bridge Creek Interceptor - Ph 3	TBD	SS-164	-	-	50,000	240,000	-	-	-	290,000
Burnt Bridge Creek Interceptor - Ph 4	TBD	SS-164	-	-	50,000	575,000	-	-	-	625,000
Broadway - 13th to McLoughlin	PRJ100342	SS-166	320,995	-	-	-	-	-	-	-
E - Interceptor Rehab PH 3	TBD	SS-163	-	-	-	200,000	2,200,000	-	-	2,400,000
E - Interceptor Rehab PH 4	TBD	SS-163	-	-	-	-	200,000	4,000,000	-	4,200,000
E - Interceptor Rehab PH 5	TBD	SS-163	-	-	-	-	-	200,000	2,000,000	2,200,000
E - Interceptor Rehab PH 6	TBD	SS-163	-	-	-	-	-	-	-	-
E - Interceptor Rehab PH 7	TBD	SS-163	-	-	-	-	-	-	-	-
4th & Washington Sewer Replacement	PRJ100613	SS-169	50,000	210,000	-	-	-	-	-	210,000
Earhart PS Removal and Gravity Extension	PRJ100639	SS-170	50,000	434,000	-	-	-	-	-	434,000
Maplecrest PS Reconstruction and GMA FM Extension	PRJ100657	SS-172	100,000	1,400,000	-	-	-	-	-	1,400,000
Westridge PS and Fishers PS Discharge Upgrade	PRJ100660	SS-173	100,000	100,000	1,000,000	-	-	-	-	1,100,000
Mill Plain Blvd. - SE 102nd Ave to Chkalov	PRJ083597	--	60,000	-	-	-	-	-	-	-
Mill Plain One Pump Station Upgrades	PRJ100355	--	79,568	-	-	-	-	-	-	-
Wyeast Sewer Improvements	PRJ100376	--	2,614	-	-	-	-	-	-	-
Port PS Force Main Bypass	PRJ100589	--	100,000	-	-	-	-	-	-	-
AB-1 Rehab	TBD	N/A	-	-	-	-	-	-	-	-
B 1-2 Rehab	TBD	N/A	-	-	-	-	-	-	-	-
Sub-Total Collection=			5,923,199	16,089,150	10,030,000	10,145,000	8,250,000	10,550,000	8,350,000	63,414,150
Treatment										
Marine Park WRF:										
Marine Park Solids Conveyance Feasibility Study	PRJ100427	SS-156	27,663	312,338	-	-	-	-	-	312,338
MP Bar Screens Upgrade	TBD	SS-160	-	-	390,000	-	2,600,000	-	-	2,990,000
Marine Park Phase 3A - Secondary Process Enhancements	TBD	SS-177	-	-	-	3,250,000	3,250,000	-	-	6,500,000
Marine Park - Refurbish Odor Control System	TBD	SS-85	-	-	-	-	1,000,000	-	-	1,000,000
MP UV Upgrade	TBD	SS-157	-	-	1,500,000	-	-	-	-	1,500,000
Marine Park Force Main	TBD	SS-178	-	-	-	2,000,000	-	9,100,000	9,100,000	20,200,000
Marine Park Phase 3B - Complete full site capacity improvements	TBD	SS-181	-	-	-	-	-	-	-	-
Marine Park WRF Process Piping R&R	TBD	SS-176	-	-	200,000	200,000	200,000	200,000	200,000	1,000,000
Marine Park WWTF Primary Clarifier No. 3	PRJ100594	--	283,766	6,234	-	-	-	-	-	6,234
Andresen Pump Station Pump No. 4	PRJ100433	--	10,461	5,000	-	-	-	-	-	5,000
Marine Park Blower	PRJ100263	--	120,356	-	-	-	-	-	-	-
Capital Preservation and Compliance (2)-Both MP and WSTP	PRJ083621	SS-32	-	905,000	2,000,000	2,000,000	2,000,000	3,000,000	3,000,000	12,905,000
Westside WRF:										
Westside W1 Protection	PRJ100614	--	24,603	120,000	-	-	-	-	-	120,000
Westside WRF Process Piping R&R	TBD	SS-180	-	-	300,000	300,000	300,000	300,000	300,000	1,500,000
Westside Outfall Improvements	PRJ100646	SS-171	-	250,000	-	-	-	-	-	250,000
Main Industrial Pumpstation Upgrade	PRJ100483	SS-78	60,416	439,584	-	-	-	-	-	439,584
Westside Blower	PRJ100264	SS-147	770	399,231	-	-	-	-	-	399,231
WS Schwing Pump Replacements	PRJ100486	SS-80	-	300,000	-	-	-	-	-	300,000
Westside Grit Classifier Replacement	TBD	SS-174	-	1,100,000	-	-	-	-	-	1,100,000
Westside Sodium Hypochlorite Delivery	TBD	SS-175	-	-	-	-	-	-	-	-
West 16th St. Pump Station (Pump Replacement)	TBD	SS-58	-	-	200,000	-	-	-	-	200,000
West 16th St. Force Main Reline	TBD	SS-131	-	-	150,000	-	-	-	-	150,000
WS Wet Process Improvements	TBD	SS-71	-	-	420,000	-	-	-	-	420,000
Secondary Clarifier Tank Coating 1&2	PRJ083603	SS-92	-	-	300,000	-	-	-	-	300,000
WS Secondary Clarifier Center Well Upgrade 3, 4, 5	PRJ100482	SS-116	932	200,000	-	-	-	-	-	200,000
Westside Expand Odor Control System (Foul Air Removal Tower)	TBD	SS-81	-	-	-	-	500,000	-	-	500,000
Burnt Bridge Creek Pump Station Upgrade	PRJ100256	SS-28	26,621	996,776	2,000,000	-	-	-	-	2,996,776
CP&C 4 Multi Coating Projects	PRJ083621	SS-32	-	-	250,000	250,000	-	-	-	500,000
CP&C Gravity Thickener - 2 Coatings	PRJ083444	--	3,823	-	-	-	-	-	-	-
Process Controls Electronics	PRJ083626	SS-70	2,006,735	905,000	200,000	200,000	200,000	200,000	200,000	1,905,000
WS - Centrifuge #1 System Replacement	PRJ100484	SS-87	-	1,000,000	315,000	2,400,000	-	-	-	3,715,000
WS Gravity Belt Thickener/ Polymer Refurbish	TBD	SS-159	-	-	400,000	-	-	-	-	400,000
Westside Electrical Upgrades	PRJ083714	SS-161	280,617	1,878,388	500,000	1,000,000	-	-	-	3,378,388
Wet Well Rehab	PRJ100434	--	528	-	-	-	-	-	-	-
Westside WWTF Buildings Coatings	PRJ100595	--	32,949	-	-	-	-	-	-	-
WS/MP Chemical Tanks Replacements	TBD	SS-76	-	-	-	-	-	500,000	-	500,000
Westside Solids Planning	TBD	SS-167	-	-	400,000	400,000	2,000,000	-	-	2,800,000
Air Gap/City Water Protection	PRJ083702	--	-	3,938	-	-	-	-	-	3,938
Westside Solids/Digesters	TBD	SS-179	-	-	-	-	-	5,000,000	-	5,000,000
Lagoon:										
Lagoon Aeration Upgrade	PRJ100253	SS-102	2,500,000	-	1,500,000	-	-	-	-	1,500,000
Lagoon Upgrade Engineering Design	PRJ083712	SS-102	122,670	4,326,401	-	-	-	-	-	4,326,401
Sub-Total Treatment=			5,502,910	13,147,890	11,025,000	12,000,000	12,050,000	12,800,000	18,300,000	79,322,890
Wastewater Grand Total=			11,426,109	29,237,040	21,055,000	22,145,000	20,300,000	23,350,000	26,650,000	142,737,040

*Project timing is dependent upon the timing of the overriding project.

**2021 Amounts include revised delivery amount or actual spent in 2021 (as of August), whichever is higher

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Basin A-20-1 & Force Main Relocation (59th Street)

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Collection</td> </tr> <tr> <td>Project Status:</td> <td>Future</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Collection	Project Status:	Future															
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Project Area	Water Project Areas	Battle Ground																				
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*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON

2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Standby Power

<h3 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">PROJECT AREA MAP</h3>	<h3 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">PROJECT SUMMARY</h3> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Collection</td> </tr> <tr> <td>Project Status:</td> <td>Active</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Collection	Project Status:	Active															
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Project Type:	Collection																					
Project Status:	Active																					
<h3 style="background-color: #0056b3; color: white; padding: 2px;">PROJECT DESCRIPTION</h3>																						
<p>Project Description Install permanent emergency power standby generators at selected sewer pump stations.</p> <p>Project Justification/Priority (2) - Improve reliability/operability/maintainability - Initial project was completed in 2016 for \$35,000. Multi year program for installation of emergency power standby generators at selected sewer pump stations. Back up power increases system reliability, by reducing risks of backups, staff overtime, and provides better use of emergency response resource.</p>																						
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Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
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*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON

2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Main Street, 5th St. to 15th St.

<h3 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">PROJECT AREA MAP</h3>	<h3 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">PROJECT SUMMARY</h3> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Collection</td> </tr> <tr> <td>Project Status:</td> <td>Active</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Collection	Project Status:	Active															
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Project Type:	Collection																					
Project Status:	Active																					
<h3 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">PROJECT DESCRIPTION</h3> <p>Project Description Roadway Coordination project - Replace 1,900 ft of original (1890) clay mains in Main St.</p> <p>Project Justification/Priority (4) = Replace/preserve/rehabilitate systems -- to replace and rehabilitate our oldest mains, (Installed 1890's in Vancouver's first sanitary sewer project), to extend the reliable asset service life. Our oldest mains will be replaced in coordination with planned Transportation Improvement Program improvements in Main Street. Sewer line construction will be triggered if the TIP Project moves ahead. Sewer CIP design will be included in the Transportation CIP project plan set.</p>																						
<h3 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">LEGEND</h3> <table style="width: 100%; border-collapse: collapse;"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<h3 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">VICINITY MAP</h3>	<h3 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">FUNDING & SCHEDULE</h3> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Budget / Proj. #:</td> <td>PRJ083583</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$700,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2025</td> </tr> </table>	Budget / Proj. #:	PRJ083583	Budget / Proj. Task #:		Total Project Cost:	\$700,000.00	*Start of Const. (Year):	2025
Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal																				
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Budget / Proj. Task #:																						
Total Project Cost:	\$700,000.00																					
*Start of Const. (Year):	2025																					

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

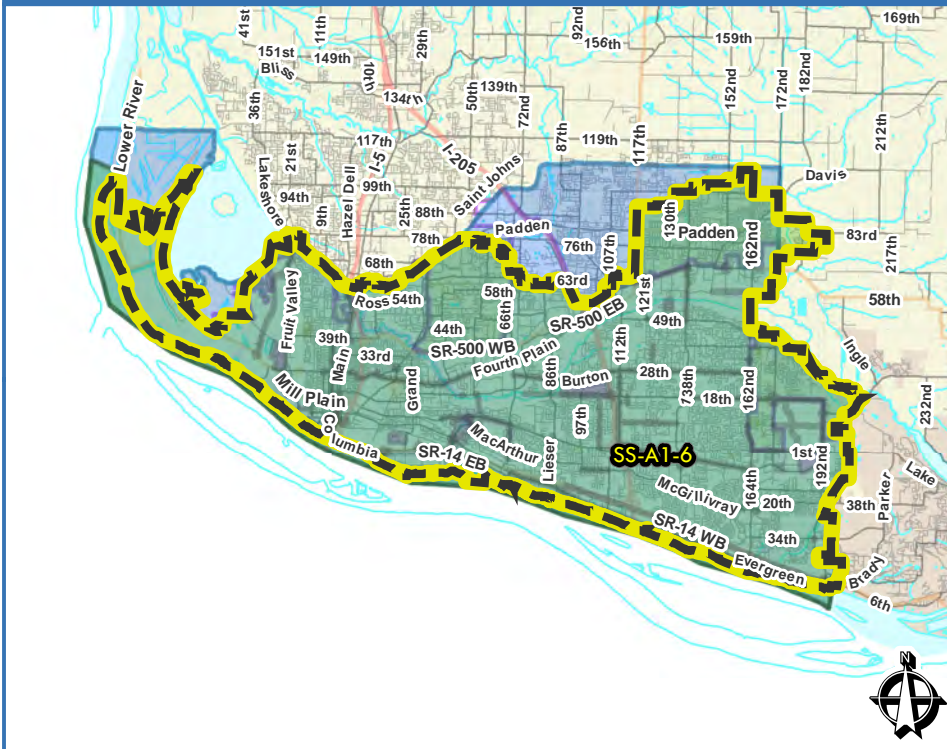
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Capital Preservation - Collection System

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Multi year program to rehabilitate sewer mains shown to be failing due to sewerline condition.

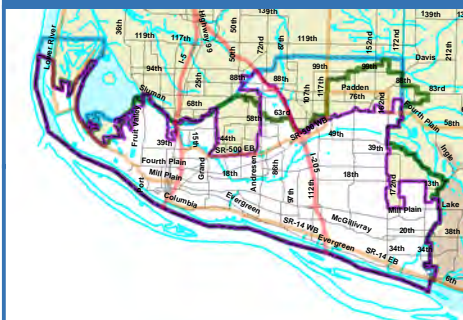
Project Justification/Priority

(4) = Replace/preserve/rehabilitate systems -- To replace/repair assets that have reached the end of useful service life. Multi year program driven by field inspection data collected by our ongoing TV inspection condition assessment program. Field inspections show these pipes are in deteriorated condition and in need of restoration. Budgeted at about \$2,400,000 per year.

LEGEND

Project Area	Water Project Areas	Battle Ground
Transportation Project Areas	SCIP Project Areas	Camas
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal
Surface Water Project Areas	Clark County	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ083591
Budget / Proj. Task #:	
Total Project Cost:	\$18,000,000.00
*Start of Const. (Year):	ongoing

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Pinebrook Forcemain Reroute

<p>PROJECT AREA MAP</p>	<p>PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Active</p>												
<p>LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p>PROJECT DESCRIPTION</p> <p>Project Description Install a new 700 lf pressure main to eliminate a corroded 4,400 ft. force main.</p> <p>Project Justification/Priority (4) - Replace/preserve/rehabilitate systems - to extend asset service life. This pump station program project will install 700 feet of new force main to redirect the discharge from this pump station to the master planned location. This will eliminate a 4,400 foot long force main that has corroded downstream piping. Timing for the project is dependent on other projects as the entire discharge infrastructure does not yet exist. Project 083238 needs to take the Sandcastle Pump Station off-line and the Camelot Court SCIP project needs to extend 12-inch main through that neighborhood. The Pinebrook Forcemain Reroute project will also fix a downstream bottleneck.</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p>VICINITY MAP</p> <p>FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ083587 Budget / Proj. Task #: Total Project Cost: \$700,000.00 *Start of Const. (Year): 2022</p>												

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: **SE 1st St - SE 164th Ave. to SE 192nd Ave. Design***

<p>PROJECT AREA MAP</p>	<p>PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Active</p>																								
<p>LEGEND</p> <table border="0"> <tr> <td></td> <td>Project Area</td> <td></td> <td>Water Project Areas</td> <td></td> <td>Battle Ground</td> </tr> <tr> <td></td> <td>Transportation Project Areas</td> <td></td> <td>SCIP Project Areas</td> <td></td> <td>Camas</td> </tr> <tr> <td></td> <td>Sanitary Sewer Project Areas</td> <td></td> <td>Vancouver City Limits</td> <td></td> <td>Washougal</td> </tr> <tr> <td></td> <td>Surface Water Project Areas</td> <td></td> <td>Clark County</td> <td></td> <td></td> </tr> </table>		Project Area		Water Project Areas		Battle Ground		Transportation Project Areas		SCIP Project Areas		Camas		Sanitary Sewer Project Areas		Vancouver City Limits		Washougal		Surface Water Project Areas		Clark County			<p>PROJECT DESCRIPTION</p> <p>Project Description Roadway Coordination project for sewerline design of needed stubs and/or laterals in SE 1st St, to serve new development in Section 30.</p> <p>Project Justification/Priority (3) = New systems; to provide reliable sewer capacity to serve area growth near Section 30. This Roadway Coordination project will fund project design to install needed stubs and/or laterals in SE 1st St, to provide sewer to developing parcels in and near Section 30. The project design (and construction) will be included within the Transportation project to widen SE 1st St. Sewerline construction timing is dependant on the Transportation project. Funding is for sewerline design to be included in transportation contract drawings. Transportation construction is unfunded.</p> <p>VICINITY MAP</p> <p>FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ083594 Budget / Proj. Task #: Total Project Cost: \$90,000.00 *Start of Const. (Year): 2022</p>
	Project Area		Water Project Areas		Battle Ground																				
	Transportation Project Areas		SCIP Project Areas		Camas																				
	Sanitary Sewer Project Areas		Vancouver City Limits		Washougal																				
	Surface Water Project Areas		Clark County																						

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: NE 137th Avenue - NE 49th St. to NE Fourth Plain Blvd.

<p>PROJECT AREA MAP</p>	<p>PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Active</p>																								
<p>LEGEND</p> <table border="0"> <tr> <td></td> <td>Project Area</td> <td></td> <td>Water Project Areas</td> <td></td> <td>Battle Ground</td> </tr> <tr> <td></td> <td>Transportation Project Areas</td> <td></td> <td>SCIP Project Areas</td> <td></td> <td>Camas</td> </tr> <tr> <td></td> <td>Sanitary Sewer Project Areas</td> <td></td> <td>Vancouver City Limits</td> <td></td> <td>Washougal</td> </tr> <tr> <td></td> <td>Surface Water Project Areas</td> <td></td> <td>Clark County</td> <td></td> <td></td> </tr> </table>		Project Area		Water Project Areas		Battle Ground		Transportation Project Areas		SCIP Project Areas		Camas		Sanitary Sewer Project Areas		Vancouver City Limits		Washougal		Surface Water Project Areas		Clark County			<p>PROJECT DESCRIPTION</p> <p>Project Description Roadway Coordination project to install approximately 2,600 feet of 8-inch main, to provide sewer to unsewered parcels.</p> <p>Project Justification/Priority (3) - New systems to provide sewer capacity in unsewered arterial corridor. This project will take advantage of the proposed road improvements to install new main to serve unsewered parcels. By combining with a road improvement project, construction costs are reduced significantly. The project design and construction will be included within the Transportation project to widen NE 137th Ave. Timing is dependent on the Transportation project, currently unfunded.</p> <p>VICINITY MAP</p> <p>FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ100251 Budget / Proj. Task #: Total Project Cost: \$430,000.00 *Start of Const. (Year): 2023</p>
	Project Area		Water Project Areas		Battle Ground																				
	Transportation Project Areas		SCIP Project Areas		Camas																				
	Sanitary Sewer Project Areas		Vancouver City Limits		Washougal																				
	Surface Water Project Areas		Clark County																						

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Section 30 Arterial Expansion

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Active</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Roadway Coordination project budget to install sewer mains in SE 1st St during Transportation's SE 1st St (Sec. 30) Arterial Expansion Project.</p> <p>Project Justification/Priority (3) = New systems - To install new sewer mains in the Transportation's Section 30 (SE 1st St) Arterial Expansion Project as identified in the Transportation Improvement Program. Timing is dependant on the Transportation project. Project budget is based on an estimate of 17,000 feet of 12-inch main.</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ083600 Budget / Proj. Task #: Total Project Cost: \$500,000.00 *Start of Const. (Year): 2021</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Burnt Bridge Creek Pump Station Upgrade

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status: Active</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Burnt Bridge Creek Pump Station - rehabilitate existing mechanical systems & pump motors</p> <p>Project Justification/Priority (4) = Replace/preserve/rehabilitate systems - This project repairs the piping from BBC interceptor into the BBC pump station wetwell, and installs a diversion gate at Andresen pump station (In Mill Plain near Tower Mall). This also replaces pump, motors, drives and mechanical fittings to activate the pump station.</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
<p>*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water. **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.</p>	<p align="center">VICINITY MAP</p> <table border="1" data-bbox="1533 1144 2005 1518"> <thead> <tr> <th colspan="2">FUNDING & SCHEDULE</th> </tr> </thead> <tbody> <tr> <td>Budget / Proj. #:</td> <td>PRJ100256</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$3,000,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2020</td> </tr> </tbody> </table>	FUNDING & SCHEDULE		Budget / Proj. #:	PRJ100256	Budget / Proj. Task #:		Total Project Cost:	\$3,000,000.00	*Start of Const. (Year):	2020		
FUNDING & SCHEDULE													
Budget / Proj. #:	PRJ100256												
Budget / Proj. Task #:													
Total Project Cost:	\$3,000,000.00												
*Start of Const. (Year):	2020												

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Capital Preservation and Compliance (Treatment)

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status: Active</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Annual program to fund extraordinary maintenance of new capital and unexpected repairs outside the limits of the O&M Contract.</p> <p>Project Justification/Priority (4) = Replace/preserve/rehabilitate systems - This program funds extraordinary maintenance of new capital, small equipment and/or unexpected treatment plant repairs outside the scope of the O&M contract. Total list of identified projects currently totals \$8,760,000, with following projected construction schedule: 2021 - \$1,400,000; 2022 - \$1,365,000; 2023 - \$3,400,000. Projects include: Rehab MP Primary Clarifiers; Rehab thickened sludge tanks at WSTP; Rehab Odor Control ductwork and booster fans at Westside; replace the slide gates at Westside aeration basins; replace the WS piping network for sodium hypochlorite; replace FBF incinerator CEMS unit; Rehab Westside primary and Wasted Act. Sludge storage tanks.</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ083621 Budget / Proj. Task #: Total Project Cost: \$13,000,000.00 *Start of Const. (Year): 2021</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: CP&C 4 Multi Coating Projects

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Treatment</td> </tr> <tr> <td>Project Status:</td> <td>Active</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Treatment	Project Status:	Active															
Program/Discipline Type:	Sanitary Sewer																					
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Project Status:	Active																					
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Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal																				
Surface Water Project Areas	Clark County																					
Budget / Proj. #:	PRJ083622																					
Budget / Proj. Task #:																						
Total Project Cost:	\$500,000.00																					
*Start of Const. (Year):	2023																					

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: West 16th St. Pump Station (Pump Replacement)

<p style="text-align: center;">PROJECT AREA MAP</p>	<p style="text-align: center;">PROJECT SUMMARY</p> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Collection</td> </tr> <tr> <td>Project Status:</td> <td>Active</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Collection	Project Status:	Active															
Program/Discipline Type:	Sanitary Sewer																					
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Project Status:	Active																					
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Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal																				
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Total Project Cost:	\$200,000.00																					
*Start of Const. (Year):	2023																					

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Process Controls Electronics (SCADA WS/MP)

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status: Active</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Upgrade and replace process controls and electronic data acquisition systems throughout the Westside WRF.</p> <p>Project Justification/Priority (4) = Replace/preserve/rehabilitate systems ---This multi year project (2018-2022) provides full replacement of Programmable Logic Controls (PLC) hardware and operating platforms at both treatment plants. This project updates our aging and obsolete plant operations SCADA (most components at least 20 years old) up to current standards for reliability, speed, transparency and security. Project goals include: 1) Replacement of obsolete/unmaintainable Programmable Logic Control (PLC) Hardware and computer networks throughout both Westside and Marine Park; 2) updating operating software and operator interfaces; 3) Replace telemetry (leased land lines) with high speed internet links; 4) Provide secure server rooms; 5) Provide secure control rooms at both treatment plants; 6) numerous process monitoring/instrumentation upgrades for operations reliability; 7) replace VFD Drives on all 100 HP pump motor assets .”</p> <p>The Computers, PLC hardware and system network equipment being replaced in this project has an expected service life of 5-7 years, therefore the long term CIP shows future funds for ongoing R&R and SCADA upgrades.</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
<p>*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water. **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.</p>	<p align="center">VICINITY MAP</p>												

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: WS Wet Process Improvements

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status: Active</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Control equipment and control system upgrades to optimize secondary treatment capacity at Westside WWTP.</p> <p>Project Justification/Priority (1) = Compliance with regulations ---Equipment upgrades for wastewater treatment processes, to replace equipment and controls to optimize secondary treatment capacity at Westside WRF.</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ083601 Budget / Proj. Task #: Total Project Cost: \$420,000.00 *Start of Const. (Year): 2023</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: WS/MP Chemical Tanks Replacements

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status: Active</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description This budget amount is a placeholder for future replacement of fiberglass/plastic tanks used in chemical processes, due to age related wear and deterioration.</p> <p>Project Justification/Priority (4) = Replace/preserve/rehabilitate systems .</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: 083608 Budget / Proj. Task #: Total Project Cost: \$500,000.00 *Start of Const. (Year): 2027</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: WS Schwing Pump Replacements

<p style="text-align: center;">PROJECT AREA MAP</p>	<p style="text-align: center;">PROJECT SUMMARY</p> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Treatment</td> </tr> <tr> <td>Project Status:</td> <td>Active</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Treatment	Project Status:	Active															
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<p style="text-align: center;">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p style="text-align: center;">VICINITY MAP</p>	<p style="text-align: center;">FUNDING & SCHEDULE</p> <table border="0"> <tr> <td>Budget / Proj. #:</td> <td>PRJ100486</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$300,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2021</td> </tr> </table>	Budget / Proj. #:	PRJ100486	Budget / Proj. Task #:		Total Project Cost:	\$300,000.00	*Start of Const. (Year):	2021
Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal																				
Surface Water Project Areas	Clark County																					
Budget / Proj. #:	PRJ100486																					
Budget / Proj. Task #:																						
Total Project Cost:	\$300,000.00																					
*Start of Const. (Year):	2021																					

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Westside Expand Odor Control System (Foul Air Removal Tower)

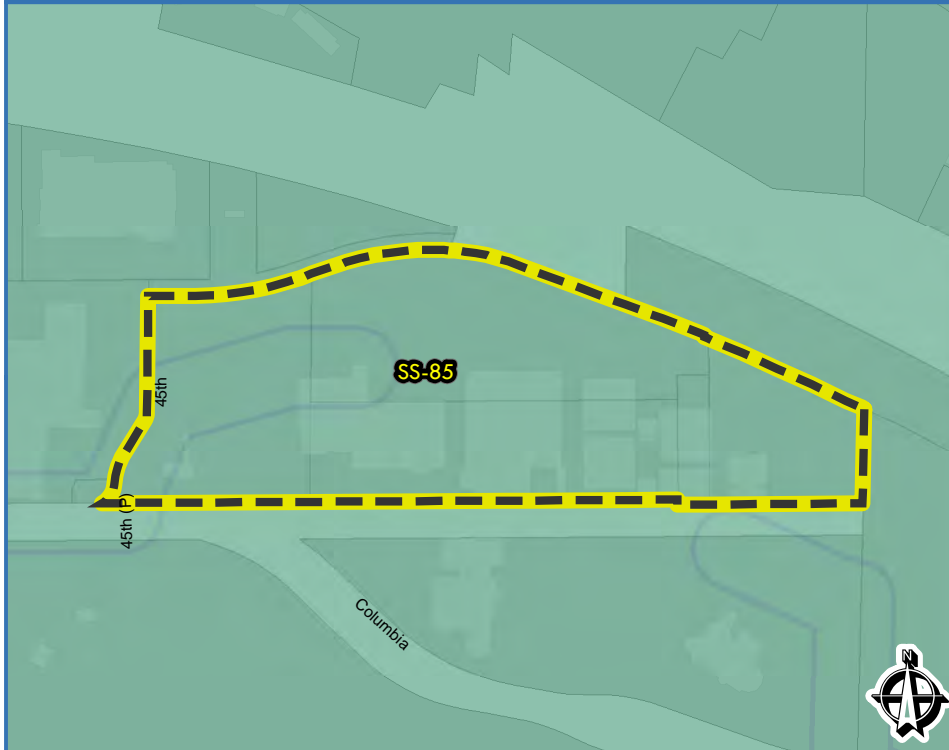
<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Treatment</td> </tr> <tr> <td>Project Status:</td> <td>Future</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Treatment	Project Status:	Future															
Program/Discipline Type:	Sanitary Sewer																					
Project Type:	Treatment																					
Project Status:	Future																					
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <table border="0"> <tr> <td>Budget / Proj. #:</td> <td>N/A</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$500,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2025</td> </tr> </table>	Budget / Proj. #:	N/A	Budget / Proj. Task #:		Total Project Cost:	\$500,000.00	*Start of Const. (Year):	2025
Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal																				
Surface Water Project Areas	Clark County																					
Budget / Proj. #:	N/A																					
Budget / Proj. Task #:																						
Total Project Cost:	\$500,000.00																					
*Start of Const. (Year):	2025																					

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: MP - Refurbish Odor Control System

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Replace and upgrade original 1995 Marine Park Foul Air air scrubber unit and ancillary process equipment.

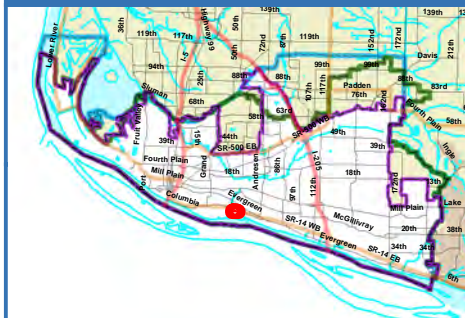
Project Justification/Priority

(4) = Replace/preserve/rehabilitate systems. This unit is at the end of its useful life, and must be replaced to provide reliable hydrogen sulfide treatment to comply with our air emissions permit with Southwest Washington Clean Air Agency. This project includes unit replacement along with engineering design and preplanning for condition assessment and to identify any needed (capacity) upgrades. This includes engineering and pre-planning work to evaluate alternatives based on condition, capacity needs, and any needed upgrades.

LEGEND

	Project Area		Water Project Areas		Battle Ground
	Transportation Project Areas		SCIP Project Areas		Camas
	Sanitary Sewer Project Areas		Vancouver City Limits		Washougal
	Surface Water Project Areas		Clark County		

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	TBD
Budget / Proj. Task #:	
Total Project Cost:	\$1,000,000.00
*Start of Const. (Year):	2025

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Lagoon Aeration Upgrade

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Treatment</td> </tr> <tr> <td>Project Status:</td> <td>Future</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Treatment	Project Status:	Future															
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Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal																				
Surface Water Project Areas	Clark County																					
Budget / Proj. #:	PRJ083712																					
Budget / Proj. Task #:																						
Total Project Cost:	\$7,460,000.00																					
*Start of Const. (Year):	2021																					

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Westside Secondary Clarifier Center Well Upgrade 3, 4, 5

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status: Active</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Replace and rehabilitate our Westside secondary clarifier wet wells.</p> <p>Project Justification/Priority (4) - Replace/Preserve/Rehabilitate systems --Replace and rehab the wet wells in the Westside Secondary Clarifiers, to extend their service life and maintain process reliability</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ083604 Budget / Proj. Task #: Total Project Cost: \$200,000.00 *Start of Const. (Year): 2023</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: W. 16th St. Force Main Reline

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Future</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Rehabilitate W. 16 St. pressure main to extend useful life.</p> <p>Project Justification/Priority (4) = Replace/preserve/rehabilitate systems -- Rehab existing W. 16th St Force Main to restore asset structural integrity and extend asset service life with trenchless repair technology</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ083581 Budget / Proj. Task #: Total Project Cost: \$150,000.00 *Start of Const. (Year): 2023</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON

2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: IR - Interceptor Rehabilitation Program

<h4 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">PROJECT AREA MAP</h4>	<h4 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">PROJECT SUMMARY</h4> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td></td> </tr> <tr> <td>Project Status:</td> <td>Active</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:		Project Status:	Active															
Program/Discipline Type:	Sanitary Sewer																					
Project Type:																						
Project Status:	Active																					
<h4 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">PROJECT DESCRIPTION</h4> <p>Project Description Rehabilitate our largest pipelines based on the 2016 Sewer Interceptor Condition Assessment study results and recommendations.</p> <p>Project Justification/Priority (4) = Replace/preserve/rehabilitate - to complete prioritized list of needed rehabilitation projects as identified in the 2016 Sewer Interceptor Condition Assessment study. This project designs and contracts for needed interceptor repairs, according to prioritized project lists based on actual condition information and estimated asset risk of loss for unplanned failure.</p>																						
<h4 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">LEGEND</h4> <table style="width: 100%; border: none;"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<h4 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">VICINITY MAP</h4>	<h4 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">FUNDING & SCHEDULE</h4> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Budget / Proj. #:</td> <td>PRJ083584</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$11,000,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2017</td> </tr> </table>	Budget / Proj. #:	PRJ083584	Budget / Proj. Task #:		Total Project Cost:	\$11,000,000.00	*Start of Const. (Year):	2017
Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal																				
Surface Water Project Areas	Clark County																					
Budget / Proj. #:	PRJ083584																					
Budget / Proj. Task #:																						
Total Project Cost:	\$11,000,000.00																					
*Start of Const. (Year):	2017																					

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: 63rd St Pump Station rebuild/relocate

<p>PROJECT AREA MAP</p>	<p>PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Active</p>
<p>LEGEND</p> <ul style="list-style-type: none"> Project Area Water Project Areas Battle Ground Transportation Project Areas SCIP Project Areas Camas Sanitary Sewer Project Areas Vancouver City Limits Washougal Surface Water Project Areas Clark County 	<p>PROJECT DESCRIPTION</p> <p>Project Description Replaces and relocates existing pump station at end of its service life.</p> <p>Project Justification/Priority 2 - To relocate/upgrade existing pump station & replace obsolete equipment, and improve reliability, operability and maintainability. Scope will include completely decommissioning the existing lift station to replace it with new, maintainable and reliable equipment and telemetry, meeting current standards.</p>
	<p>VICINITY MAP</p> <p>FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ083592 Budget / Proj. Task #: Total Project Cost: \$1,400,000.00 *Start of Const. (Year): 2020</p>

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Southside Interceptor Rehab - Phases 1 - 5

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Active</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Southside Interceptor Pipeline rehabilitation at Westside WWTP, to be completed in five phases ranging between 2,100 lf. and 2,700 lf. apiece.</p> <p>Project Justification/Priority (4) -Replace/preserve/rehabilitate. Ranked as most critically needed repair by Interceptor Condition Assessment Report. To provide consulting design and construction services for re-lining of 42" diameter concrete Southside Interceptor, from Westside Water Reclamation Facility headworks and upstream. Repairs propose using trenchless technology. Phase 1 (Completed in 2021 for \$2.2M) is for 2,100 feet; Phase 2 in 2021 for \$1.5M; Phase 3 in 2022 for \$1.6M; Phase 4 in 2022 for \$2.1M; Phase 5 in 2023 for \$2.7 M. All phases total 15,961 ft. (3 miles).</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ083710 Budget / Proj. Task #: Total Project Cost: \$10,400,000.00 *Start of Const. (Year): 2019</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Wastewater Collection SCADA

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace aging lift station SCADA equipment.

Project Justification/Priority

(4) -Replace/preserve/rehabilitate. Upgrade and replace existing (obsolete) Lift Station SCADA system throughout our service area, some of it over 20 years old. Recurring/ongoing Equipment replacement is needed to update our SCADA system electronics and hardware, maintain system reliability, and extend asset service life. .

LEGEND

	Project Area		Water Project Areas		Battle Ground
	Transportation Project Areas		SCIP Project Areas		Camas
	Sanitary Sewer Project Areas		Vancouver City Limits		Washougal
	Surface Water Project Areas		Clark County		

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ083711
Budget / Proj. Task #:	
Total Project Cost:	\$1,000,000.00
*Start of Const. (Year):	2018

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON

2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: G2-1 Trunk Interceptor Rehabilitation

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Active</p>																									
<h3>LEGEND</h3> <table border="0"> <tr> <td></td> <td>Project Area</td> <td></td> <td>Water Project Areas</td> <td></td> <td>Battle Ground</td> </tr> <tr> <td></td> <td>Transportation Project Areas</td> <td></td> <td>SCIP Project Areas</td> <td></td> <td>Camas</td> </tr> <tr> <td></td> <td>Sanitary Sewer Project Areas</td> <td></td> <td>Vancouver City Limits</td> <td></td> <td>Washougal</td> </tr> <tr> <td></td> <td>Surface Water Project Areas</td> <td></td> <td>Clark County</td> <td></td> <td></td> </tr> </table>		Project Area		Water Project Areas		Battle Ground		Transportation Project Areas		SCIP Project Areas		Camas		Sanitary Sewer Project Areas		Vancouver City Limits		Washougal		Surface Water Project Areas		Clark County			<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ0100260 Budget / Proj. Task #: Total Project Cost: \$1,300,000.00 *Start of Const. (Year): 2020</p>
	Project Area		Water Project Areas		Battle Ground																					
	Transportation Project Areas		SCIP Project Areas		Camas																					
	Sanitary Sewer Project Areas		Vancouver City Limits		Washougal																					
	Surface Water Project Areas		Clark County																							

Project Description
 Rehabilitate G2-1 Trunk Interceptor structural defects due to ongoing hydrogen sulfide corrosion, and tree root intrusion. Repair approximately 270 lineal feet of 18" concrete sewer main showing signs of compromised structural integrity.

Project Justification/Priority
 (4) - replace/preserve/rehabilitate. This area is just downstream of a force main discharge, from MH 903 to MH 1413. This project also provides 10 lf point repair between MH 2017 to MH 2013. Rehabilitation will be done using trenchless methods of repair.

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Marine Park Solids Conveyance Feasibility Study



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

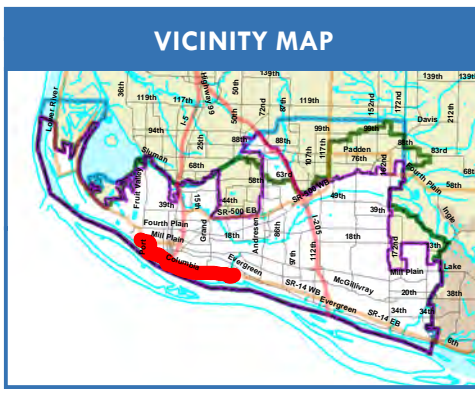
PROJECT DESCRIPTION

Project Description
2020 Engineering Study for new Solids Pressure Main - 8,100 lf pipeline from Marine Park to Westside WWTP.

Project Justification/Priority
(3) = New systems - Project will expand our pumping capacity for transfer of wastewater solids, between Marine Park WRF and the sludge incineration facility at Westside WRF. \$130K planned for 2020 engineering study and planning work, to provide project planning, alternatives analysis, and project design. Project would install 8,100 feet of 6 inch and 8 inch, and install an additional 6,811 feet of 6 inch and 8 inch inside an existing dry line. This is needed to provide additional processing capacity at Westside WRF. This provides a dedicated pressure sewer line to pump activated sludge from Marine Park WRF to Westside WRF, allowing us to pump Marine Park WRF primary solids and waste activated sludge directly to Westside's solids handling tanks (and bypass the headworks). Construction currently unfunded.

LEGEND

	Project Area		Water Project Areas		Battle Ground
	Transportation Project Areas		SCIP Project Areas		Camas
	Sanitary Sewer Project Areas		Vancouver City Limits		Washougal
	Surface Water Project Areas		Clark County		



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100427
Budget / Proj. Task #:	
Total Project Cost:	\$400,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: MP UV Upgrade

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status: Active</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Replace and upgrade 1995 Marine Park Ultraviolet Disinfection system to extend service life.</p> <p>Project Justification/Priority (4) - replace/preserve/rehabilitate-- Engineering services and construction budget to replace and upgrade Marine Park Ultraviolet Disinfection system, to extend asset service life. This replaces 20 year old systems which are obsolete and unmaintainable. This also improves energy efficiency for this wastewater disinfection system.</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: TBD Budget / Proj. Task #: Total Project Cost: \$1,500,000.00 *Start of Const. (Year): 2023</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: WS Gravity Belt Thickener/Polymer Refurbish

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Treatment</td> </tr> <tr> <td>Project Status:</td> <td>Future</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Treatment	Project Status:	Future															
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Project Type:	Treatment																					
Project Status:	Future																					
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <table border="0"> <tr> <td>Budget / Proj. #:</td> <td>TBD</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$400,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2023</td> </tr> </table>	Budget / Proj. #:	TBD	Budget / Proj. Task #:		Total Project Cost:	\$400,000.00	*Start of Const. (Year):	2023
Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
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Budget / Proj. #:	TBD																					
Budget / Proj. Task #:																						
Total Project Cost:	\$400,000.00																					
*Start of Const. (Year):	2023																					

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: MP Bar Screens Upgrade

<p style="text-align: center;">PROJECT AREA MAP</p>	<p style="text-align: center;">PROJECT SUMMARY</p> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Treatment</td> </tr> <tr> <td>Project Status:</td> <td>Future</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Treatment	Project Status:	Future															
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Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal																				
Surface Water Project Areas	Clark County																					
Budget / Proj. #:	TBD																					
Budget / Proj. Task #:																						
Total Project Cost:	\$3,070,000.00																					
*Start of Const. (Year):	2024																					

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Westside Electrical Upgrade Design and Electrical Upgrades

<p style="text-align: center;">PROJECT AREA MAP</p>	<p style="text-align: center;">PROJECT SUMMARY</p> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Treatment</td> </tr> <tr> <td>Project Status:</td> <td>Active</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Treatment	Project Status:	Active															
Program/Discipline Type:	Sanitary Sewer																					
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Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal																				
Surface Water Project Areas	Clark County																					
Budget / Proj. #:	PRJ083714																					
Budget / Proj. Task #:																						
Total Project Cost:	\$10,000,000.00																					
*Start of Const. (Year):	2018																					

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Port Pump Station Rehabilitation

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type: Sanitary Sewer
Project Type: Collection
Project Status: Active

PROJECT DESCRIPTION

Project Description

Convert existing Port Pumpstation to a submersible pump station.

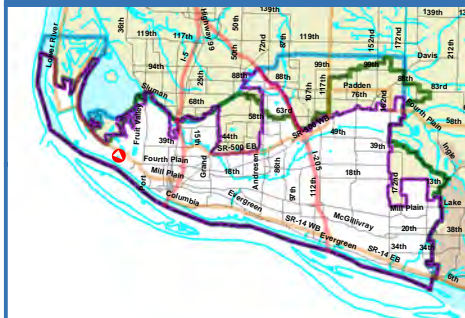
Project Justification/Priority

(3) = New Systems; to upgrade/upsized our existing system and improve overall pump station reliability- Conversion of existing Port PS to a submersible pump station (new city standard equip[ment] with addition of new backup generator to provide emergency power supply.

LEGEND

-  Project Area
-  Water Project Areas
-  Battle Ground
-  Transportation Project Areas
-  SCIP Project Areas
-  Camas
-  Sanitary Sewer Project Areas
-  Vancouver City Limits
-  Washougal
-  Surface Water Project Areas
-  Clark County

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #: PRJ083744
Budget / Proj. Task #:
Total Project Cost: \$1,300,000.00
***Start of Const. (Year):** 2020

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

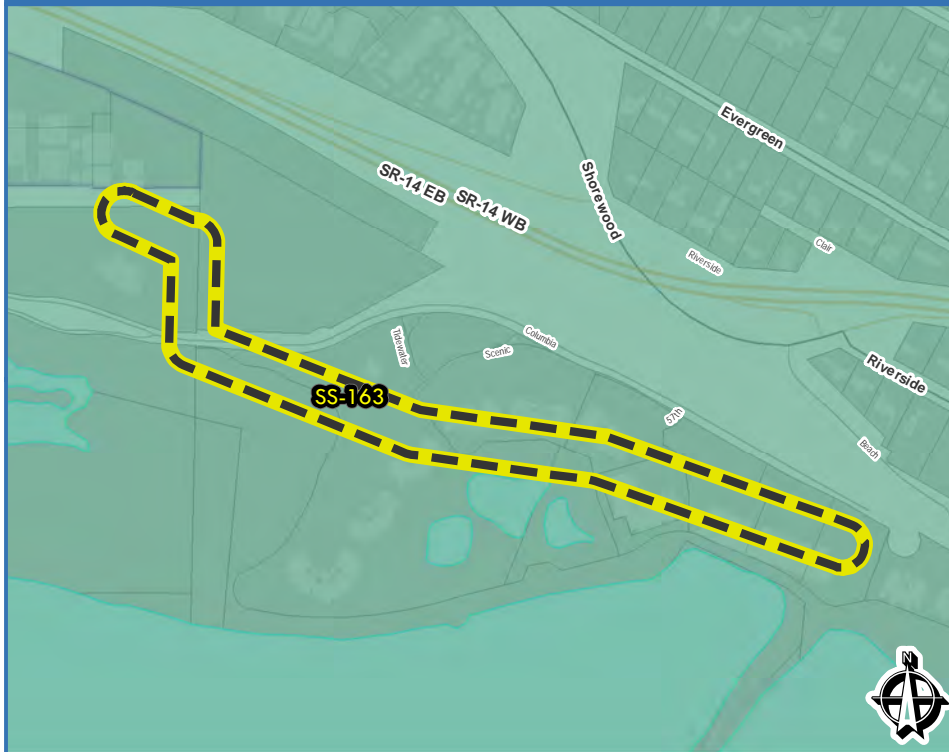
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: E Interceptor Rehab Phases 1 to 7

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Rehabilitate E interceptor in seven phases between 2022 and 2030 for a total CIP cost \$23.8M (2019 estimate).

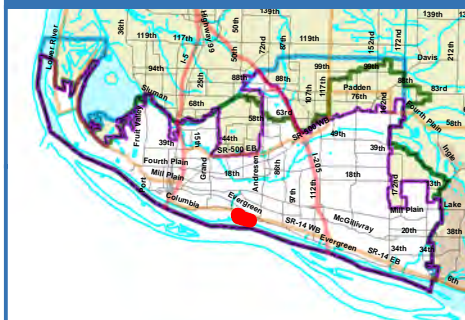
Project Justification/Priority

(4) - replace/preserve/rehabilitate.--To provide consulting design and construction services for re-lining of 42" diameter concrete "E" Interceptor, from Marine Park Water Reclamation Facility and upstream. Proposed repairs to use trenchless technology. Phase 1 is estimated at \$3.8M, & rehabilitates 2,613 ft from MH 12759 to MH1424, scheduled for 2022. First of seven phase project: Phase 1 - \$3.2M, 2022; Phase 2 \$0.5 M, 2023; Phase 3 - \$.6 M, 2025; Phase 4 -\$2.4M, 2026; Phase 5- \$2.0 M, 2027; Phase 6 -\$2.4M, 2028; Phase 7 - \$10M in 2029-2030. All phases total 17,998 ft. (3.4 miles). Wastewater CIP project priority #6 of 15 projects

LEGEND

Project Area	Water Project Areas	Battle Ground
Transportation Project Areas	SCIP Project Areas	Camas
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal
Surface Water Project Areas	Clark County	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	TBD
Budget / Proj. Task #:	
Total Project Cost:	\$11,000,000.00
*Start of Const. (Year):	2023

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Burnt Bridge Creek Interceptor Rehab Phases 1 to 4**

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Active</p>																									
<h3>LEGEND</h3> <table border="0"> <tr> <td></td> <td>Project Area</td> <td></td> <td>Water Project Areas</td> <td></td> <td>Battle Ground</td> </tr> <tr> <td></td> <td>Transportation Project Areas</td> <td></td> <td>SCIP Project Areas</td> <td></td> <td>Camas</td> </tr> <tr> <td></td> <td>Sanitary Sewer Project Areas</td> <td></td> <td>Vancouver City Limits</td> <td></td> <td>Washougal</td> </tr> <tr> <td></td> <td>Surface Water Project Areas</td> <td></td> <td>Clark County</td> <td></td> <td></td> </tr> </table>		Project Area		Water Project Areas		Battle Ground		Transportation Project Areas		SCIP Project Areas		Camas		Sanitary Sewer Project Areas		Vancouver City Limits		Washougal		Surface Water Project Areas		Clark County			<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: Budget / Proj. Task #: Total Project Cost: \$3,600,000.00 *Start of Const. (Year): 2023</p>
	Project Area		Water Project Areas		Battle Ground																					
	Transportation Project Areas		SCIP Project Areas		Camas																					
	Sanitary Sewer Project Areas		Vancouver City Limits		Washougal																					
	Surface Water Project Areas		Clark County																							
<h3>PROJECT DESCRIPTION</h3> <p>Project Description Rehabilitate Burnt Bridge Creek interceptor in four phases between 2023 and 2024, totalling \$3.6M (2019 estimate)</p> <p>Project Justification/Priority (4) - replace/preserve/rehabilitate.--To provide consulting design and construction services for re-lining of 36"-42" diameter concrete Burnt Bridge Creek Interceptor. First of four phase project: Phase 1 - \$1.4M; Phase 2 \$830,000; Phase 3 - \$290,000; Phase 4- \$630,000. All phases planned for 2023-2024 construction, totalling 26,773 LF (5.07 Miles).</p>																										

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Broadway - 13th to McLoughlin

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Collection</td> </tr> <tr> <td>Project Status:</td> <td>Active</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Collection	Project Status:	Active															
Program/Discipline Type:	Sanitary Sewer																					
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Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal																				
Surface Water Project Areas	Clark County																					
Budget / Proj. #:	PRJ100342																					
Budget / Proj. Task #:																						
Total Project Cost:	\$420,000.00																					
*Start of Const. (Year):	2021																					

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Westside Solids Planning

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status: Future</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Replace the 1998 Fluidized Bed Furnace at Westside WWTP, which has exceeded it's service life of 20 years.</p> <p>Project Justification/Priority (4) - replace/preserve/rehabilitate.... The Fluidized Bed Furnace at Westside - originally installed in 1999 - has exceeded it's service life of 20 years.</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: Budget / Proj. Task #: Total Project Cost: \$90,000,000.00 *Start of Const. (Year): 2027</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Broadway PH 2

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace 1,287 linear feet of deteriorating Sewer Main line in coordination with a Pavement Management Program pavement restoration project.

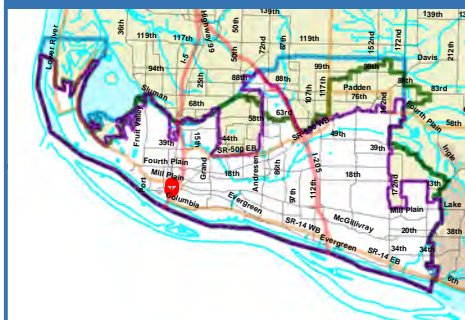
Project Justification/Priority

Inspection of sewer mains have show degradation. Coordination with Pavement Restoration reduces overall costs of the replacement of the sewer mains.

LEGEND

	Project Area		Water Project Areas		Battle Ground
	Transportation Project Areas		SCIP Project Areas		Camas
	Sanitary Sewer Project Areas		Vancouver City Limits		Washougal
	Surface Water Project Areas		Clark County		

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100396
Budget / Proj. Task #:	
Total Project Cost:	\$300,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: 4th & Washington Sewer Replacement

<p style="text-align: center;">PROJECT AREA MAP</p> <p style="text-align: center;">SS-169</p> <p style="text-align: center;">W 4th St</p> <p style="text-align: right;">Washington St</p> <p style="text-align: left;">Columbia St</p>	<p style="text-align: center;">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Active</p>												
<p style="text-align: center;">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p style="text-align: center;">PROJECT DESCRIPTION</p> <p>Project Description Replace existing main at intersection of 4th and Washington.</p> <p>Project Justification/Priority (4) - replace/preserve/rehabilitate.--Project will rehab aging sewer infrastructure in lower Washington, to extend service life.</p> <p style="text-align: center;">VICINITY MAP</p> <p style="text-align: center;">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ100613 Budget / Proj. Task #: Total Project Cost: \$200,000.00 *Start of Const. (Year): 2021</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Earheart Pump Station Removal and Gravity

<p style="text-align: center;">PROJECT AREA MAP</p>	<p style="text-align: center;">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Active</p>												
<p style="text-align: center;">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p style="text-align: center;">PROJECT DESCRIPTION</p> <p>Project Description Decommission Earhart Pumpstation and replace existing discharge line with gravity system.</p> <p>Project Justification/Priority (3) = New Systems; to upgrade/upsue our existing system and reduce ongoing maintenance.</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p style="text-align: center;">VICINITY MAP</p>	<p style="text-align: center;">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ100639 Budget / Proj. Task #: Total Project Cost: \$450,000.00 *Start of Const. (Year): 2021</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Westside Outfall Improvements

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status:</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description System upgrade to improve discharge water quality & effluent mixing</p> <p>Project Justification/Priority (3) = New Systems; to upgrade/upsized our existing system and reduce ongoing maintenance</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ 100646 Budget / Proj. Task #: Total Project Cost: \$605,000.00 *Start of Const. (Year): 2021</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Maplecrest PS Reconstruction and Force Main Extension

<p style="text-align: center;">PROJECT AREA MAP</p>	<p style="text-align: center;">PROJECT SUMMARY</p> <p>Program/Discipline Type: Collection</p> <p>Project Type: Active</p> <p>Project Status:</p>																								
<p style="text-align: center;">LEGEND</p> <table border="0"> <tr> <td></td> <td>Project Area</td> <td></td> <td>Water Project Areas</td> <td></td> <td>Battle Ground</td> </tr> <tr> <td></td> <td>Transportation Project Areas</td> <td></td> <td>SCIP Project Areas</td> <td></td> <td>Camas</td> </tr> <tr> <td></td> <td>Sanitary Sewer Project Areas</td> <td></td> <td>Vancouver City Limits</td> <td></td> <td>Washougal</td> </tr> <tr> <td></td> <td>Surface Water Project Areas</td> <td></td> <td>Clark County</td> <td></td> <td></td> </tr> </table>		Project Area		Water Project Areas		Battle Ground		Transportation Project Areas		SCIP Project Areas		Camas		Sanitary Sewer Project Areas		Vancouver City Limits		Washougal		Surface Water Project Areas		Clark County			<p style="text-align: center;">VICINITY MAP</p> <p style="text-align: center;">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ100657</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$1,500,000.00</p> <p>*Start of Const. (Year): 2021</p>
	Project Area		Water Project Areas		Battle Ground																				
	Transportation Project Areas		SCIP Project Areas		Camas																				
	Sanitary Sewer Project Areas		Vancouver City Limits		Washougal																				
	Surface Water Project Areas		Clark County																						

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Westridge PS and Fisher's Landing PS Discharge Upgrade.

<p>PROJECT AREA MAP</p>	<p>PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Active</p>	
<p>LEGEND</p> <ul style="list-style-type: none"> Project Area Water Project Areas Battle Ground Transportation Project Areas SCIP Project Areas Camas Sanitary Sewer Project Areas Vancouver City Limits Washougal Surface Water Project Areas Clark County 	<p>PROJECT DESCRIPTION</p> <p>Project Description Reconstruction of existing pumpstation to improve capacity.</p> <p>Project Justification/Priority (3) = New Systems; to upgrade/upsue our existing system, improve capacity and reduce ongoing maintenance</p>	
	<p>VICINITY MAP</p>	<p>FUNDING & SCHEDULE</p> <p>Budget / Proj. #: PRJ100660 Budget / Proj. Task #: Total Project Cost: \$1,300,000.00 *Start of Const. (Year): 2021</p>

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Westside Grit Classifier Replacement

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status: Active</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Replace the existing roof protecting our grit classifier equipment, now at the end of its useful service life.</p> <p>Project Justification/Priority (4) - replace/preserve/rehabilitate the existing roof -The existing roof is past it's service life and needs to be replaced to protect our grit classifier equipment.</p> <p align="center">VICINITY MAP</p> <p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: TBD Budget / Proj. Task #: Total Project Cost: \$1,100,000.00 *Start of Const. (Year): 2022</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: WS Sodium Hypochlorite Delivery

<p style="text-align: center;">PROJECT AREA MAP</p>	<p style="text-align: center;">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status: Active</p>													
<p style="text-align: center;">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p style="text-align: center;">VICINITY MAP</p>	<p style="text-align: center;">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: TBD Budget / Proj. Task #: Total Project Cost: \$500,000.00 *Start of Const. (Year): 2022</p>
Project Area	Water Project Areas	Battle Ground												
Transportation Project Areas	SCIP Project Areas	Camas												
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal												
Surface Water Project Areas	Clark County													
<p style="text-align: center;">PROJECT DESCRIPTION</p> <p>Project Description Improve Sodium hypochlorite storage and handling tanks and piping to reduce operator safety hazards and improve operability.</p> <p>Project Justification/Priority (3) = New Systems; to upgrade/upsized our existing system and reduce ongoing maintenance.</p>														

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Marine Park WRF Process Piping R&R

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status: Active</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Treatment Plant process piping rehabilitation and replacement.</p> <p>Project Justification/Priority (4) - replace/preserve/rehabilitate the existing piping as it reaches the end of its useful service life.</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: TBD Budget / Proj. Task #: Total Project Cost: \$1,000,000.00 *Start of Const. (Year): 2022</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Marine Park WRF Phase 3A - Secondary Process Enhancements

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <table border="0"> <tr> <td>Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Treatment</td> </tr> <tr> <td>Project Status:</td> <td>Future</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Treatment	Project Status:	Future															
Program/Discipline Type:	Sanitary Sewer																					
Project Type:	Treatment																					
Project Status:	Future																					
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <table border="0"> <tr> <td>Budget / Proj. #:</td> <td>TBD</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$6,500,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2023</td> </tr> </table>	Budget / Proj. #:	TBD	Budget / Proj. Task #:		Total Project Cost:	\$6,500,000.00	*Start of Const. (Year):	2023
Project Area	Water Project Areas	Battle Ground																				
Transportation Project Areas	SCIP Project Areas	Camas																				
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal																				
Surface Water Project Areas	Clark County																					
Budget / Proj. #:	TBD																					
Budget / Proj. Task #:																						
Total Project Cost:	\$6,500,000.00																					
*Start of Const. (Year):	2023																					

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON

2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Marine Park Force Main

<h4 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">PROJECT AREA MAP</h4>	<h4 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">PROJECT SUMMARY</h4> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Program/Discipline Type:</td> <td>Sanitary Sewer</td> </tr> <tr> <td>Project Type:</td> <td>Treatment</td> </tr> <tr> <td>Project Status:</td> <td>Future</td> </tr> </table>	Program/Discipline Type:	Sanitary Sewer	Project Type:	Treatment	Project Status:	Future						
Program/Discipline Type:	Sanitary Sewer												
Project Type:	Treatment												
Project Status:	Future												
	<h4 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">PROJECT DESCRIPTION</h4> <p>Project Description This is a new forcemain needed to provide improved solids handling between Marine Park and Westside WWTP</p> <p>Project Justification/Priority (3) = New Systems; to upgrade/upsue our existing system; and 1) Compliance with existing regulations - to maintain water quality and odor control compliance with permit limits, while serving existing and continuing system growth.</p>												
<h4 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">LEGEND</h4> <table style="width: 100%; border-collapse: collapse;"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<h4 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">VICINITY MAP</h4>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
<h4 style="text-align: center; background-color: #0056b3; color: white; padding: 2px;">FUNDING & SCHEDULE</h4> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Budget / Proj. #:</td> <td>PRJ100427</td> </tr> <tr> <td>Budget / Proj. Task #:</td> <td></td> </tr> <tr> <td>Total Project Cost:</td> <td>\$20,200,000.00</td> </tr> <tr> <td>*Start of Const. (Year):</td> <td>2024</td> </tr> </table>		Budget / Proj. #:	PRJ100427	Budget / Proj. Task #:		Total Project Cost:	\$20,200,000.00	*Start of Const. (Year):	2024				
Budget / Proj. #:	PRJ100427												
Budget / Proj. Task #:													
Total Project Cost:	\$20,200,000.00												
*Start of Const. (Year):	2024												

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

CITY OF Vancouver WASHINGTON **2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM**

PROJECT: Westside Solids Digesters

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Treatment Project Status: Future</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Construct New Solids Handling facility to replace current fluidized bed furnace technology. Design beginning in 2027.</p> <p>Project Justification/Priority Solids handling to manage growth and improve operations sustainability and energy efficiency.</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
	<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: TBD Budget / Proj. Task #: TBD Total Project Cost: \$90,000,000.00 *Start of Const. (Year): 2027</p>											

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Heights District Collection System Improvements

<p align="center">PROJECT AREA MAP</p>	<p align="center">PROJECT SUMMARY</p> <p>Program/Discipline Type: Sanitary Sewer Project Type: Collection Project Status: Future</p>												
<p align="center">LEGEND</p> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Camas</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Clark County</td> <td></td> </tr> </table>	Project Area	Water Project Areas	Battle Ground	Transportation Project Areas	SCIP Project Areas	Camas	Sanitary Sewer Project Areas	Vancouver City Limits	Washougal	Surface Water Project Areas	Clark County		<p align="center">PROJECT DESCRIPTION</p> <p>Project Description Sewer collections system realignment as needed for Heights District redevelopment</p> <p>Project Justification/Priority (3) = New Systems; to upgrade/upsue our existing system and support economic redevelopment in the Heights District.</p>
Project Area	Water Project Areas	Battle Ground											
Transportation Project Areas	SCIP Project Areas	Camas											
Sanitary Sewer Project Areas	Vancouver City Limits	Washougal											
Surface Water Project Areas	Clark County												
<p align="center">VICINITY MAP</p>	<p align="center">FUNDING & SCHEDULE</p> <p>Budget / Proj. #: Budget / Proj. Task #: Total Project Cost: \$2,000,000.00 *Start of Const. (Year): 2023</p>												

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

Sewer Connection Incentive Program (SCIP)





Sewer Connection Incentive Program (SCIP)

CIP Changes

This page provides an overview of the changes from the previous 6-year project list (2021-2026) to this year's 6 year project list (2022-2027). The changes are segmented by: projects added; projects removed; and other.

Projects Added	Project Number	Comments
None		

Projects Removed	Project Number	Comments
Gillis St Sewer Extension	SCIP-258	Project completed

Other Changes	Project Number	Comments
West Vancouver (216 homes)	SCIP-W-238	\$2M budget added 2025/2026
East Vancouver - North (261 Parcels)	SCIP-EN-240	Project moved out to 2023 and \$1.4M budget added over 2023-2025
East Vancouver – Central (458 Parcels)	SCIP-EC-242	\$1.2M project budget added 2023-2025
Central Vancouver – North (344 Parcels)	SCIP-CN-239	Project budget reduced from \$2.8M to \$1.0M
East Vancouver - South (154 Parcels)	SCIP-ES-241	Project moved one year out from 2024 to 2025

Note - "Completed" indicates already completed as of the date of this document or anticipated completion prior to January 1, 2022.



**6 YEAR CAPITAL IMPROVEMENT
PROGRAM FOR
SCIP (2022 - 2027)**

Note: All costs are in 2021 dollars

Mar. 3, 2022

PROJECT NAME	Project Number	CIP#	2021**	2022	2023	2024	2025	2026*	2027	6 Year Total	
Demand Response - SCIP	PRJ083093	SCIP-A1-10	136	250,000	250,000	250,000	250,000	250,000	-	1,250,136	
West Vancouver (216 homes)	PRJ083682	SCIP-W-238					1,000,000	1,000,000	-	2,000,000	
East Vancouver - North (261 Parcels)	PRJ100258	SCIP-EN-240		1,000,000	800,000	1,400,000	600,000		-	3,800,000	
East Vancouver - Central (458 Parcels)	PRJ100480	SCIP-EC-242		3,000,000	800,000	800,000	800,000	1,600,000	-	7,000,000	
Central Vancouver - North (344 Parcels)	PRJ083685	SCIP-CN-239			1,000,000				-	1,000,000	
NE 9th St East of NE 112th (8 lots)	PRJ083718	SCIP-234			200,000				-	200,000	
East Vancouver South (154 parcels)	N/A	SCIP-ES-241					1,000,000	500,000	-	1,500,000	
Central Vancouver South (Parcels)	PRJ083680	SCIP-CS-243	170			1,300,000			-	1,300,170	
East Vancouver PH3	PRJ100392	SCIP-254	1,309,487	1,283,116					-	2,592,603	
Central Vancouver North PH2	PRJ100393	SCIP-255	188,945						-	188,945	
Vista Robles	PRJ100469	SCIP-204	37,375	300,000					-	337,375	
NE 58th St and Andresen	PRJ100470	SCIP-155	59,439	676,000					-	735,439	
NE 60th St	PRJ100471	SCIP-257	53,421	1,400,000					-	1,453,421	
New-Different in Budget									-	-	
East Vancouver Ph 1 SCIP	PRJ083681		2,203						-	2,203	
Central Vancouver North Ph1 (SCIP)	PRJ083745		3,086	Project completed in 2020						-	3,086
East Vancouver Ph2 (SCIP)	PRJ083746		184,404						-	184,404	
Grove St Gillis St Sewer Extension - Ops (SCIP)	PRJ100597	SCIP-258	59,283						-	59,283	
NE 49th St & 22nd Ave Sewr Improvements	PRJ100631		80,000	78,000					-	158,000	
TOTAL PLANNED PROJECTS			1,977,949	7,987,116	3,050,000	3,750,000	3,650,000	3,350,000	-	23,765,065	

*2021 Budget amounts include 2020 carry forwards

*SCIP projects are projected to be completed by 2026.

**2021 Amounts include revised delivery amount or actual spent in 2021 (as of October), whichever is higher



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: NE 49th Street at 22nd Avenue

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: SCIP</p> <p>Project Type:</p> <p>Project Status: Active</p>												
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> Water Project Areas</td> <td> Clark County</td> </tr> <tr> <td> Transportation Project Areas</td> <td> SCIP Project Areas</td> <td> Battle Ground</td> </tr> <tr> <td> Sanitary Sewer Project Areas</td> <td> Project Polys</td> <td> Camas</td> </tr> <tr> <td> Surface Water Project Areas</td> <td> Vancouver City Limits</td> <td> Washougal</td> </tr> </table>	Project Area	Water Project Areas	Clark County	Transportation Project Areas	SCIP Project Areas	Battle Ground	Sanitary Sewer Project Areas	Project Polys	Camas	Surface Water Project Areas	Vancouver City Limits	Washougal	<h3>PROJECT DESCRIPTION</h3> <p>Project Description Sewer extension to provide service to three parcels on the south side of NE 49th Street east of 22nd Avenue. These parcels were removed from Central Vancouver North Phase 1 (SCIP-251) in order to coordinate the sewer extension with replacement of the water main in 49th Street.</p> <p>Project Justification/Priority (2) = Improve Safety; (3) = New Systems Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.</p>
Project Area	Water Project Areas	Clark County											
Transportation Project Areas	SCIP Project Areas	Battle Ground											
Sanitary Sewer Project Areas	Project Polys	Camas											
Surface Water Project Areas	Vancouver City Limits	Washougal											
<p>*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water. **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.</p>	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ100631</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$78,000.00</p> <p>*Start of Const. (Year): 2022</p>											



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: NE 58th - Andresen

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: SCIP</p> <p>Project Type:</p> <p>Project Status: Active</p>																								
<h3>LEGEND</h3> <table border="0"> <tr> <td></td> <td>Project Area</td> <td></td> <td>Water Project Areas</td> <td></td> <td>Clark County</td> </tr> <tr> <td></td> <td>Transportation Project Areas</td> <td></td> <td>SCIP Project Areas</td> <td></td> <td>Battle Ground</td> </tr> <tr> <td></td> <td>Sanitary Sewer Project Areas</td> <td></td> <td>Project Polys</td> <td></td> <td>Camas</td> </tr> <tr> <td></td> <td>Surface Water Project Areas</td> <td></td> <td>Vancouver City Limits</td> <td></td> <td>Washougal</td> </tr> </table>		Project Area		Water Project Areas		Clark County		Transportation Project Areas		SCIP Project Areas		Battle Ground		Sanitary Sewer Project Areas		Project Polys		Camas		Surface Water Project Areas		Vancouver City Limits		Washougal	<h3>PROJECT DESCRIPTION</h3> <p>Project Description Sanitary sewer will be extended as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems. Project also includes NE 65th Ct. (SCIP-156)</p> <p>Project Justification/Priority (2) = Improve Safety; (3) = New Systems Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.</p>
	Project Area		Water Project Areas		Clark County																				
	Transportation Project Areas		SCIP Project Areas		Battle Ground																				
	Sanitary Sewer Project Areas		Project Polys		Camas																				
	Surface Water Project Areas		Vancouver City Limits		Washougal																				
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ100470</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$676,000.00</p> <p>*Start of Const. (Year): 2022</p>																							

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Vista Robles**

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: SCIP</p> <p>Project Type:</p> <p>Project Status: Active</p>																									
<h3>LEGEND</h3> <table border="0"> <tr> <td></td> <td>Project Area</td> <td></td> <td>Water Project Areas</td> <td></td> <td>Clark County</td> </tr> <tr> <td></td> <td>Transportation Project Areas</td> <td></td> <td>SCIP Project Areas</td> <td></td> <td>Battle Ground</td> </tr> <tr> <td></td> <td>Sanitary Sewer Project Areas</td> <td></td> <td>Project Polys</td> <td></td> <td>Camas</td> </tr> <tr> <td></td> <td>Surface Water Project Areas</td> <td></td> <td>Vancouver City Limits</td> <td></td> <td>Washougal</td> </tr> </table>		Project Area		Water Project Areas		Clark County		Transportation Project Areas		SCIP Project Areas		Battle Ground		Sanitary Sewer Project Areas		Project Polys		Camas		Surface Water Project Areas		Vancouver City Limits		Washougal	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ100469</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$350,000.00</p> <p>*Start of Const. (Year): 2021-2022</p>
	Project Area		Water Project Areas		Clark County																					
	Transportation Project Areas		SCIP Project Areas		Battle Ground																					
	Sanitary Sewer Project Areas		Project Polys		Camas																					
	Surface Water Project Areas		Vancouver City Limits		Washougal																					
<h3>PROJECT DESCRIPTION</h3> <p>Project Description Sanitary sewer will be extended as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.</p> <p>Project Justification/Priority (2) = Improve Safety; (3) = New Systems Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.</p>																										

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: West Vancouver

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	SCIP
Project Type:	West Vancouver
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Sanitary sewer will be extended within several small un-sewered pockets west of Interstate 5 as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.

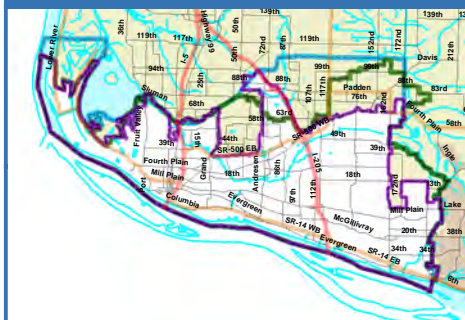
Project Justification/Priority

(2) = Improve Safety; (3) = New Systems
 Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

LEGEND

Project Area	Water Project Areas	Clark County
Transportation Project Areas	SCIP Project Areas	Battle Ground
Sanitary Sewer Project Areas	Project Polys	Camas
Surface Water Project Areas	Vancouver City Limits	Washougal

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ083682
Budget / Proj. Task #:	
Total Project Cost:	\$2,000,000.00
*Start of Const. (Year):	2025-2026

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

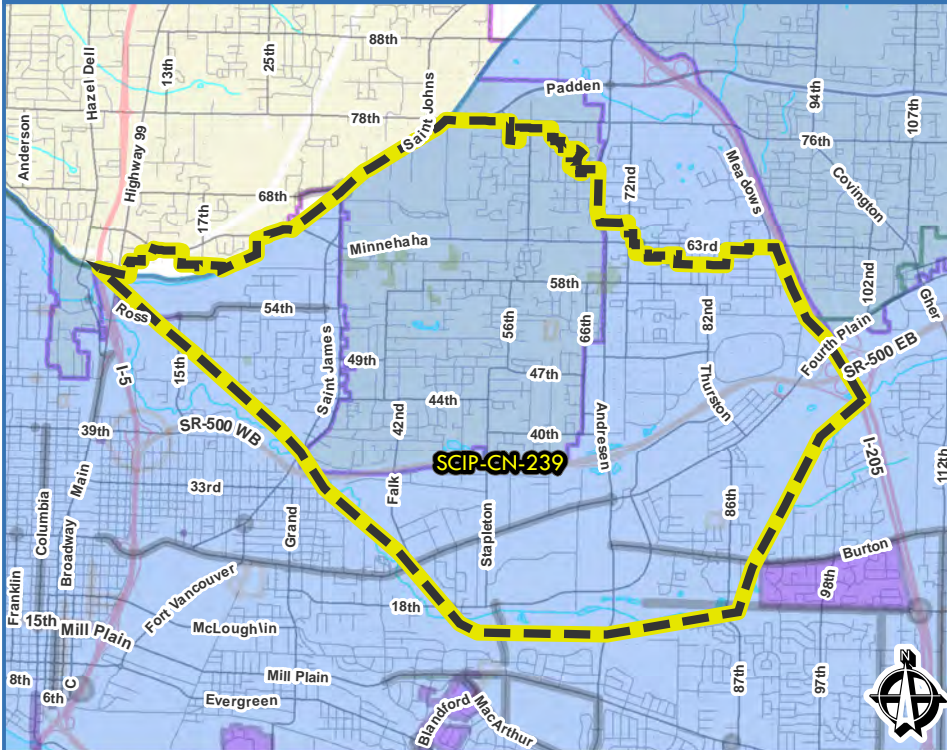
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Central Vancouver - North

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	SCIP
Project Type:	Central Vancouver - North
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Sanitary sewer will be extended to small un-sewered pockets within the central - north sewer service boundary as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.

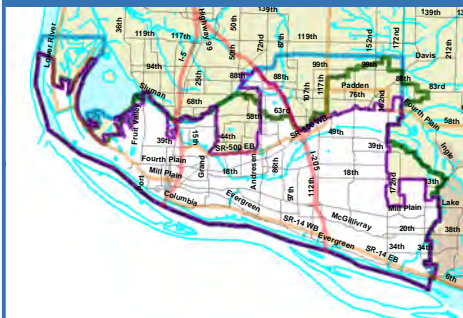
Project Justification/Priority

(2) = Improve Safety; (3) = New Systems
 Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

LEGEND

	Project Area		Water Project Areas		Clark County
	Transportation Project Areas		SCIP Project Areas		Battle Ground
	Sanitary Sewer Project Areas		Project Polys		Camas
	Surface Water Project Areas		Vancouver City Limits		Washougal

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ083685
Budget / Proj. Task #:	
Total Project Cost:	\$2,000,000.00
*Start of Const. (Year):	2022-2023

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

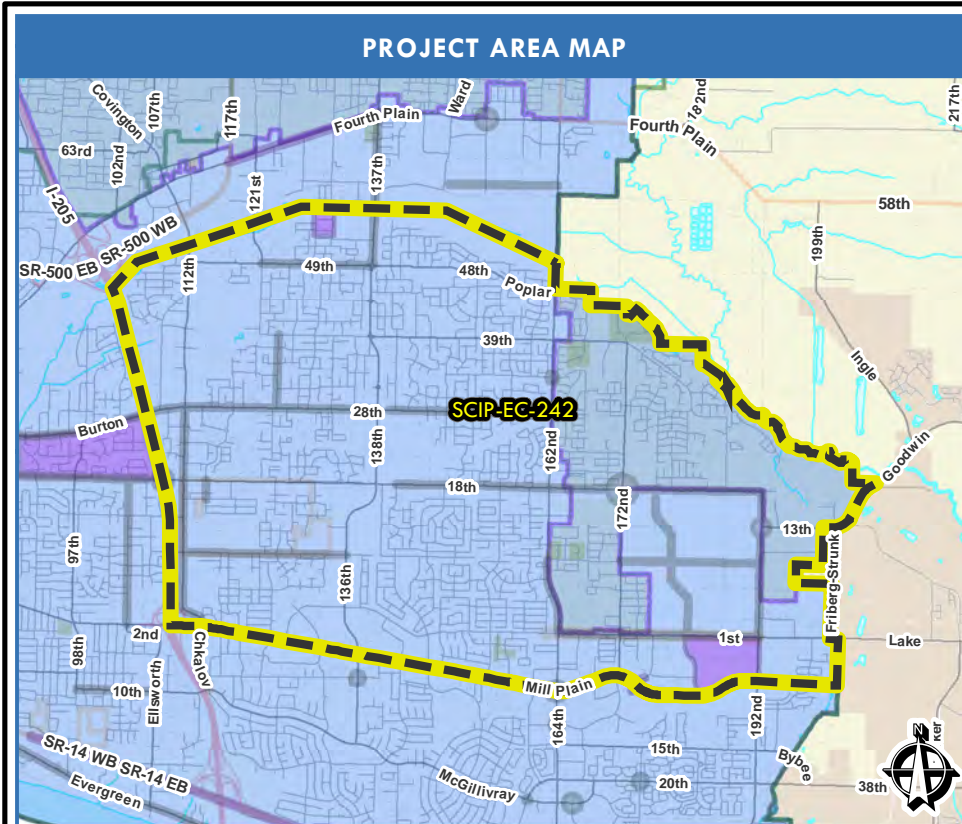
PROJECT: **East Vancouver - South**

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: SCIP</p> <p>Project Type: East Vancouver - South</p> <p>Project Status: Future</p>																									
<h3>LEGEND</h3> <table border="0"> <tr> <td></td> <td>Project Area</td> <td></td> <td>Water Project Areas</td> <td></td> <td>Clark County</td> </tr> <tr> <td></td> <td>Transportation Project Areas</td> <td></td> <td>SCIP Project Areas</td> <td></td> <td>Battle Ground</td> </tr> <tr> <td></td> <td>Sanitary Sewer Project Areas</td> <td></td> <td>Project Polys</td> <td></td> <td>Camas</td> </tr> <tr> <td></td> <td>Surface Water Project Areas</td> <td></td> <td>Vancouver City Limits</td> <td></td> <td>Washougal</td> </tr> </table>		Project Area		Water Project Areas		Clark County		Transportation Project Areas		SCIP Project Areas		Battle Ground		Sanitary Sewer Project Areas		Project Polys		Camas		Surface Water Project Areas		Vancouver City Limits		Washougal	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: _____</p> <p>Budget / Proj. Task #: _____</p> <p>Total Project Cost: \$1,500,000.00</p> <p>*Start of Const. (Year): 2025-2026</p>
	Project Area		Water Project Areas		Clark County																					
	Transportation Project Areas		SCIP Project Areas		Battle Ground																					
	Sanitary Sewer Project Areas		Project Polys		Camas																					
	Surface Water Project Areas		Vancouver City Limits		Washougal																					
<p><small>*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.</small></p> <p><small>**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.</small></p>																										



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: East Vancouver - Central



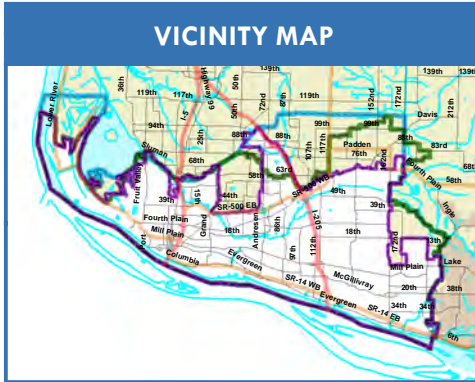
PROJECT SUMMARY	
Program/Discipline Type:	SCIP
Project Type:	East Vancouver - Central
Project Status:	Future

PROJECT DESCRIPTION

Project Description
Sanitary sewer will be extended in several small pockets within the east central sewer boundary as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.

Project Justification/Priority
(2) = Improve Safety; (3) = New Systems
Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

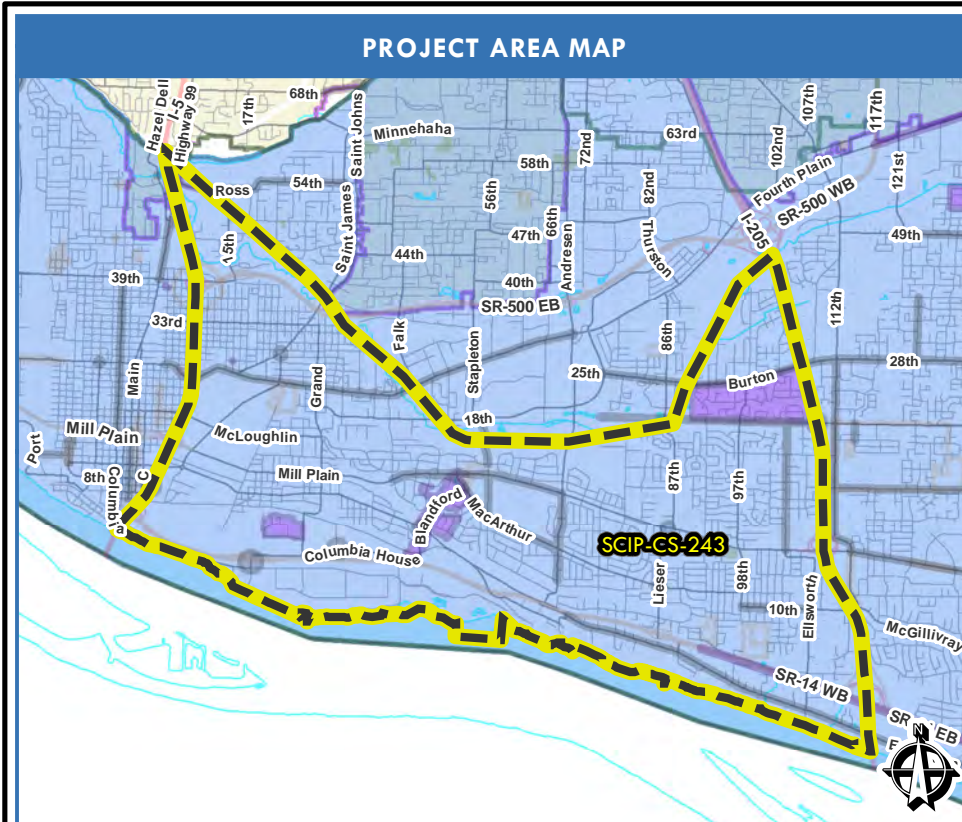
LEGEND					
	Project Area		Water Project Areas		Clark County
	Transportation Project Areas		SCIP Project Areas		Battle Ground
	Sanitary Sewer Project Areas		Project Polys		Camas
	Surface Water Project Areas		Vancouver City Limits		Washougal





2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Central Vancouver - South



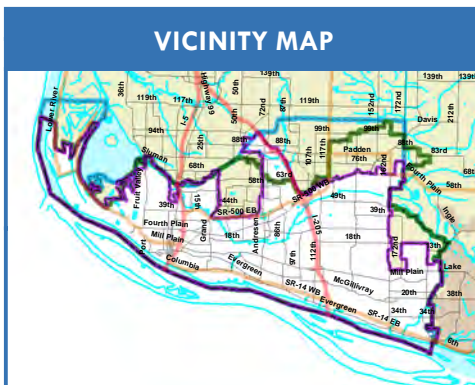
PROJECT SUMMARY	
Program/Discipline Type:	SCIP
Project Type:	Central Vancouver - South
Project Status:	Future

PROJECT DESCRIPTION

Project Description
Sanitary sewer will be extended as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.

Project Justification/Priority
(2) = Improve Safety; (3) = New Systems
Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

LEGEND			
	Project Area		Clark County
	Water Project Areas		SCIP Project Areas
	Transportation Project Areas		Battle Ground
	Sanitary Sewer Project Areas		Camas
	Surface Water Project Areas		Washougal
	Project Polys		
	Vancouver City Limits		



FUNDING & SCHEDULE	
Budget / Proj. #:	
Budget / Proj. Task #:	
Total Project Cost:	\$1,300,000.00
*Start of Const. (Year):	2024

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: East Vancouver Phase 3

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: SCIP</p> <p>Project Type:</p> <p>Project Status: Active</p>																									
<h3>LEGEND</h3> <table border="0"> <tr> <td></td> <td>Project Area</td> <td></td> <td>Water Project Areas</td> <td></td> <td>Clark County</td> </tr> <tr> <td></td> <td>Transportation Project Areas</td> <td></td> <td>SCIP Project Areas</td> <td></td> <td>Battle Ground</td> </tr> <tr> <td></td> <td>Sanitary Sewer Project Areas</td> <td></td> <td>Project Polys</td> <td></td> <td>Camas</td> </tr> <tr> <td></td> <td>Surface Water Project Areas</td> <td></td> <td>Vancouver City Limits</td> <td></td> <td>Washougal</td> </tr> </table>		Project Area		Water Project Areas		Clark County		Transportation Project Areas		SCIP Project Areas		Battle Ground		Sanitary Sewer Project Areas		Project Polys		Camas		Surface Water Project Areas		Vancouver City Limits		Washougal	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ100392</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$1,300,000.00</p> <p>*Start of Const. (Year): 2021-2022</p>
	Project Area		Water Project Areas		Clark County																					
	Transportation Project Areas		SCIP Project Areas		Battle Ground																					
	Sanitary Sewer Project Areas		Project Polys		Camas																					
	Surface Water Project Areas		Vancouver City Limits		Washougal																					
<h3>PROJECT DESCRIPTION</h3> <p>Project Description Sanitary sewer will be extended as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems. Project consists of sites previously identified as Camelot (SCIP-78), Lewis Addition (SCIP-83), and Pheasant Run (SCIP-99).</p> <p>Project Justification/Priority (2) = Improve Safety; (3) = New Systems Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.</p>																										

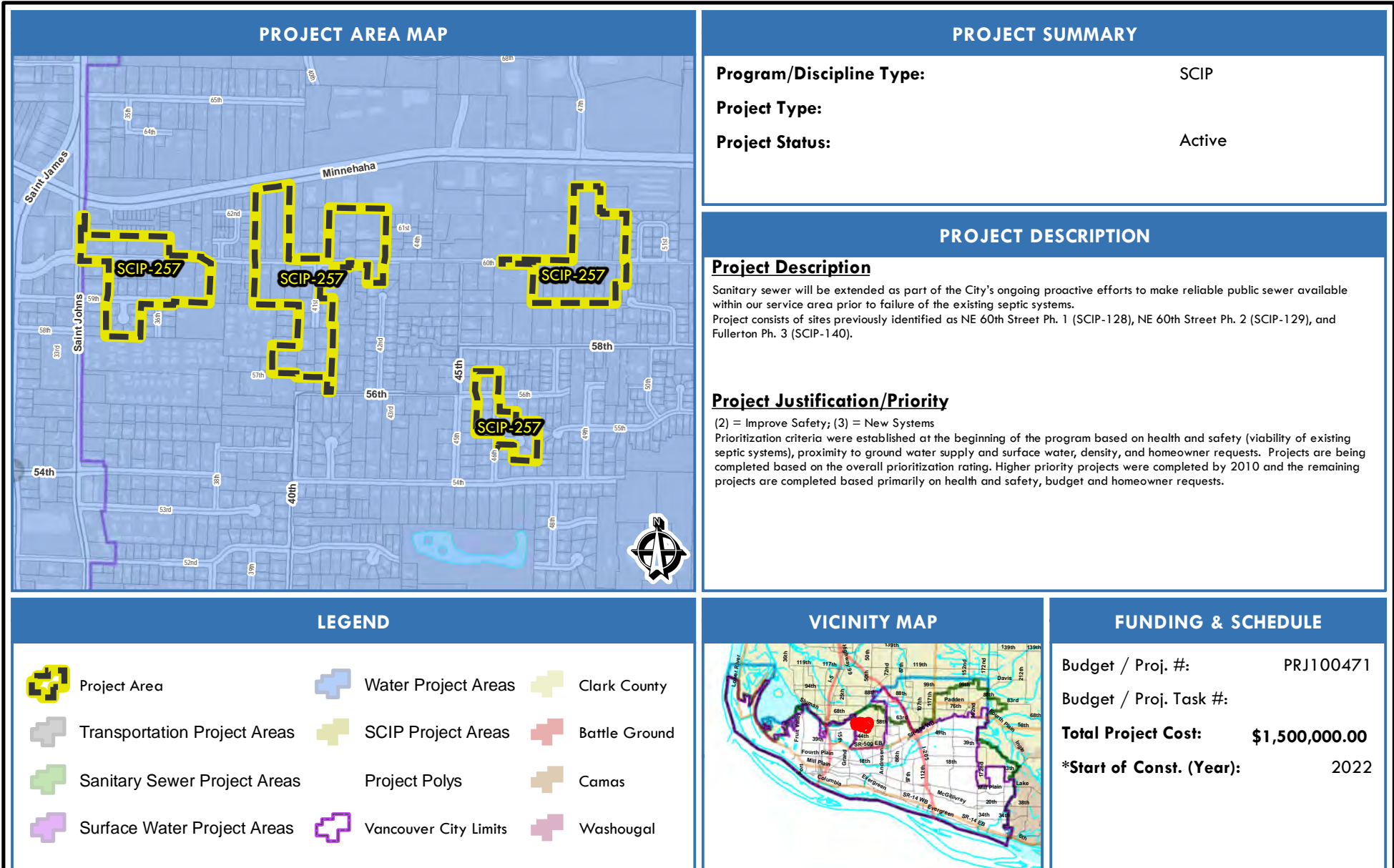
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: NE 60th Street



*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.
 **Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

Surface Water Utility



Surface Water Utility Recent Financial History





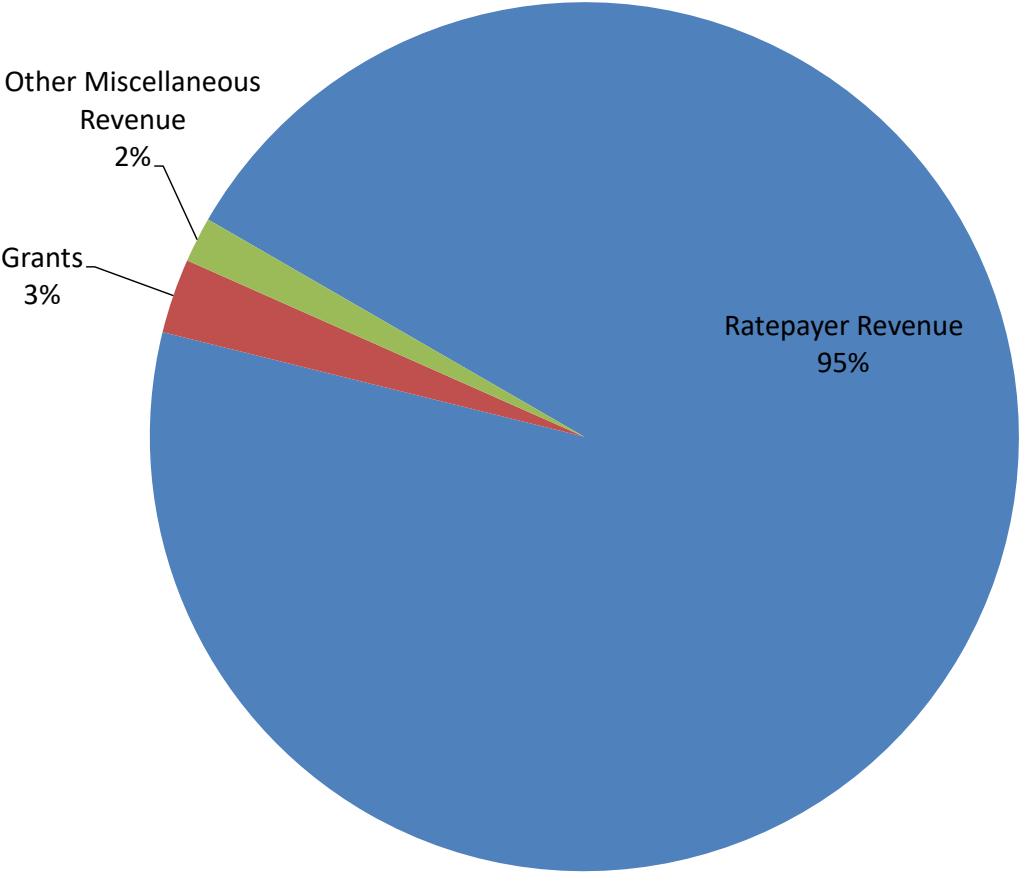
**SURFACE WATER FUND ACTIVITY
(2014-2020)**

	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
Revenue							
Ratepayer Revenue	11,661,445	12,373,597	13,495,966	14,731,122	16,430,604	18,083,133	19,423,876
SRF Loan (included in Misc. Rev.)							
Grants	523,679	191,068	870,750	158,297	222,555	430,911	565,583
Other Miscellaneous Revenue*	503,531	594,199	386,433	340,956	435,833	543,944	342,482
Total Revenue	12,688,655	13,158,864	14,753,149	15,230,375	17,088,992	19,057,988	20,331,941
Expenses							
Salaries & Benefits	3,784,125	4,123,518	4,486,659	4,642,878	5,069,368	5,553,123	5,849,620
Supplies and Services	934,475	1,082,082	956,181	1,011,738	1,422,954	1,027,667	880,635
Professional Services	388,733	317,953	440,642	645,537	655,466	382,198	550,061
Indirects and ER&R	<u>2,216,433</u>	<u>2,626,469</u>	<u>3,033,560</u>	<u>3,099,472</u>	<u>3,502,196</u>	<u>3,542,366</u>	<u>3,791,763</u>
Operations, maintenance, and regulatory expenses	7,323,766	8,150,022	8,917,042	9,399,625	10,649,984	10,505,354	11,072,079
Taxes and fees	2,471,031	2,615,047	3,008,814	3,655,827	4,282,263	5,158,088	5,883,835
Debt Service	86,231	88,346	88,292	88,291	0	0	0
Capital Construction Expenses	912,996	568,769	1,461,915	758,683	873,938	1,043,287	768,663
General Fund	0	0	0	0	0	0	0
Water Fund (Utilities Administration Allocation)	1,111,723	1,216,197	1,258,937	1,214,217	1,339,910	1,443,110	1,452,267
Street Maintenance Fund	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Expenses Subtotal	11,905,747	12,638,381	14,735,000	15,116,643	17,146,095	18,149,839	19,176,844
Depreciation	<u>377,653</u>	<u>380,454</u>	<u>433,403</u>	<u>548,072</u>	<u>844,768</u>	<u>0</u>	<u>0</u>
Total Expense	12,283,400	13,018,835	15,168,403	15,664,715	17,990,863	18,149,839	19,176,844

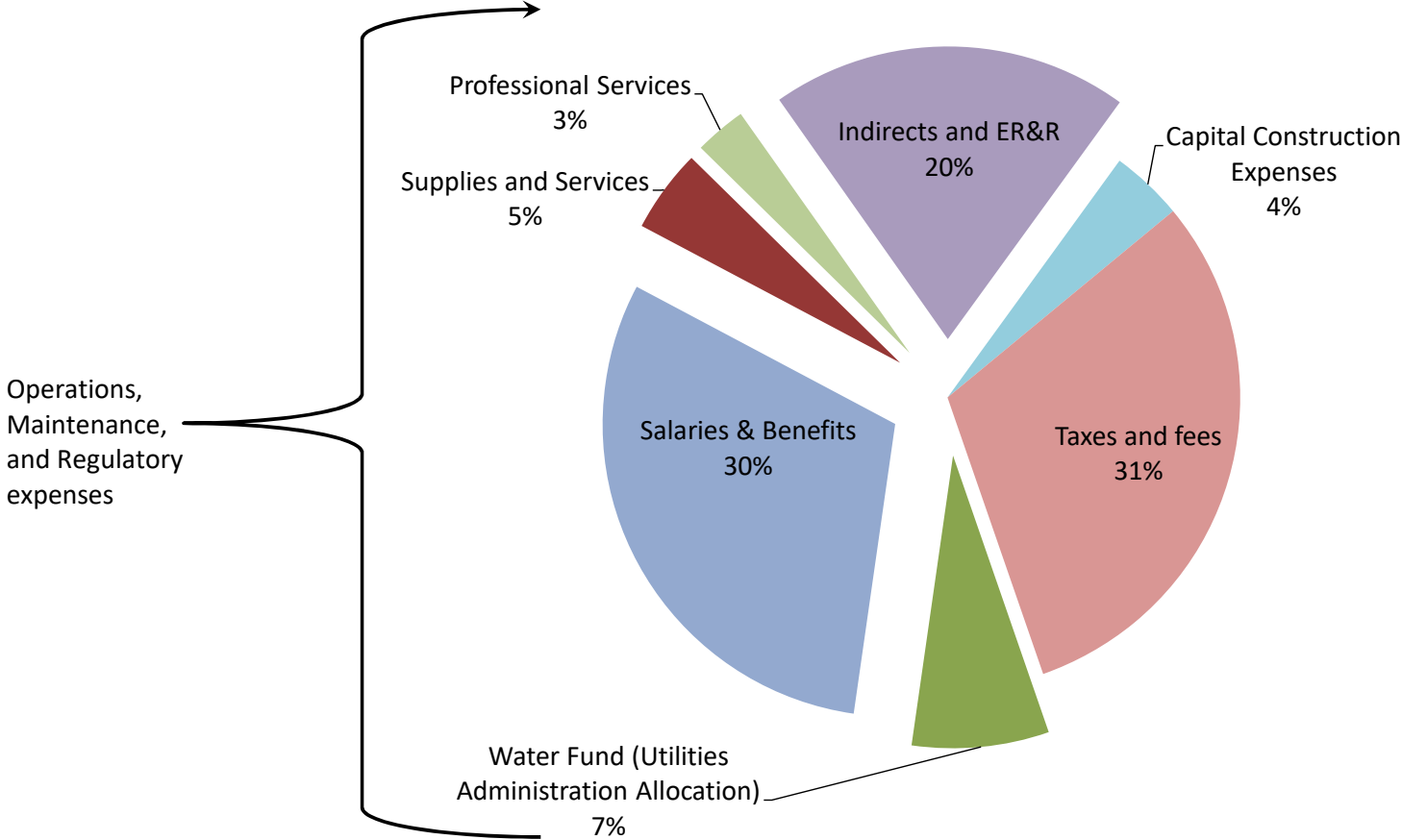
* Other Miscellaneous Revenues include items such as:

- Site Plan Review
- Subdivision Fees
- Interest
- WDOT Revenue
- Transfer from General Fund

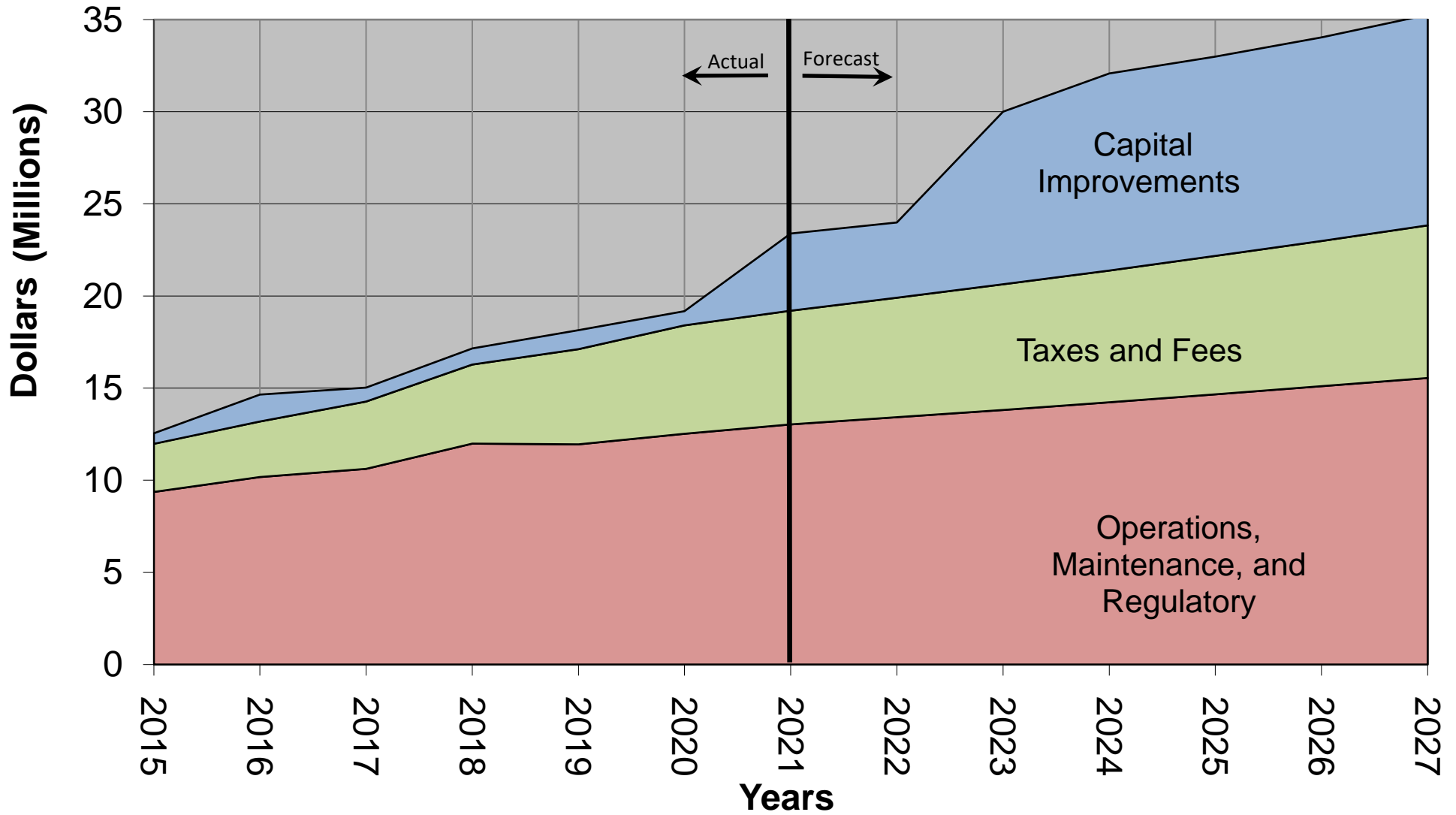
2020 Surface Water Utility Revenues = \$20.3 million



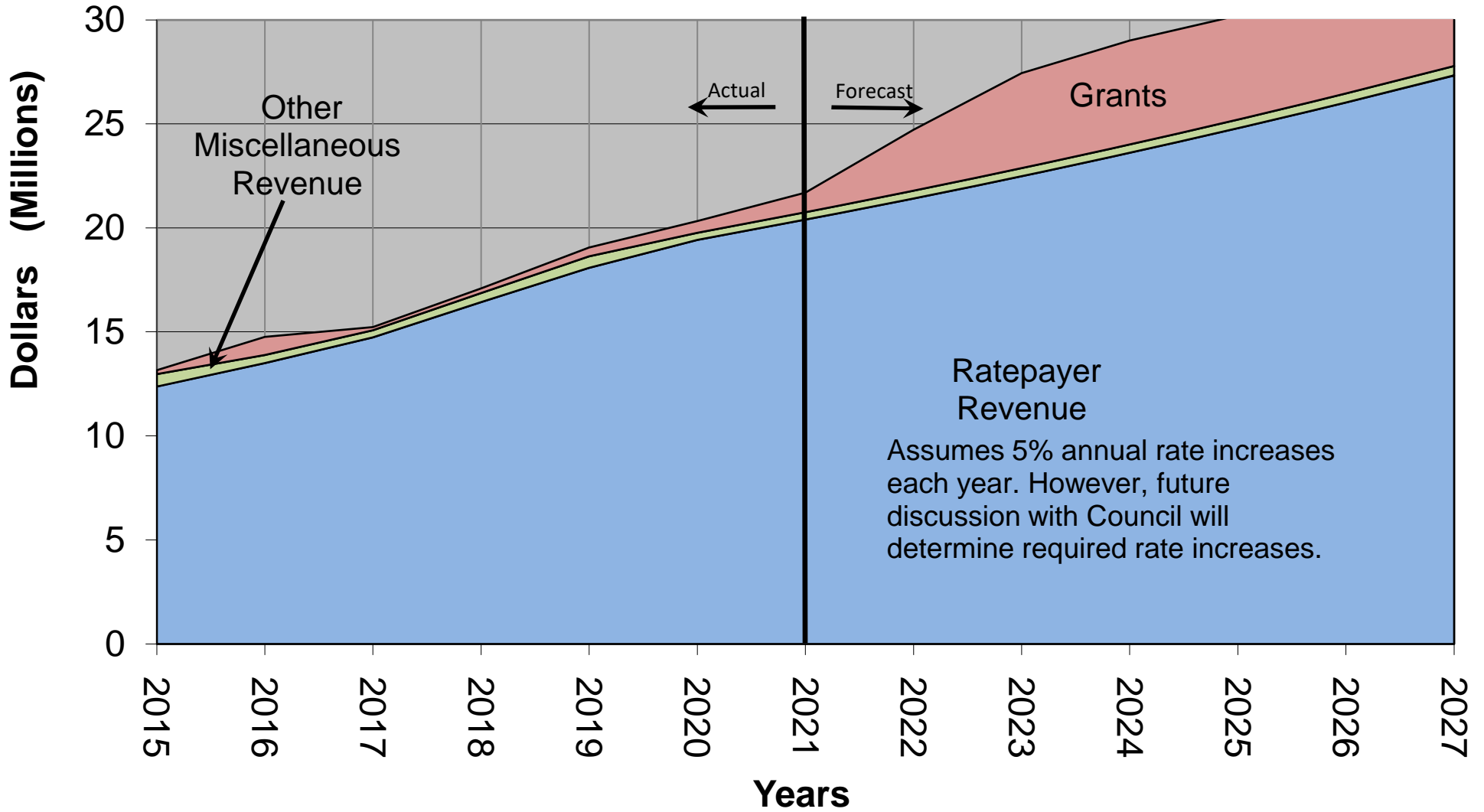
2020 Surface Water Utility Expenses = \$19.2 million



Surface Water Expenses (2015-2027)



Surface Water Revenues (2015-2027)



Surface Water Utility - Project List



Surface Water Utility CIP Changes

This page provides an overview of the changes from the previous 6-year project list (2021-2026) to this year's 6-year project list (2022-2027). The changes are segmented by: projects added; projects removed; and other.

Projects Added	Project Number	Comments
Fruit Valley Neighborhood Grants – PRJ100642	SW-58	Rehab aging infrastructure for street flooding
E. Mill Plain CTC -PRJ100643	SW-59	E. Mill Plain Basin Study
N 38 th St and F St	SW-60	Rehab existing infrastructure for flooding
Columbia Slope Study	SW-61	WDOE Grant – System study to identify improvement
Fourth Plain Central – SR 500 to NE 131 st Ave.	SW-62	Ecology Retrofits Grant
E. Mill Plain UIC Treatment	SW-63	Ecology Retrofits Grant
W. 22 nd St and Thompson	SW-64	Ecology Retrofits Grant
Columbia Way to Columbia River Retrofits	SW-65	Ecology Retrofits Grant

Projects Removed	Project Number	Comments
Topper’s Landing Outfall Repair – PRJ100514	TBD	Completed in 2021
Land Donation at Arnold Park – PRJ08374	N/A	Land donation indefinitely postponed
Talton Sewer – PRJ100403	N/A	Completed in 2021

Other Changes	Project No.	Comments
Ecology SFAP Grants \$5 Million/yr.	TBD	Annual recurring \$5M grant matches added 2024 and beyond
Property Acquisition) Corporate Woods/Kevanna Park)	TBD	Annual recurring \$500K grant matches added 2023 and beyond



6 YEAR CAPITAL IMPROVEMENT PROGRAM FOR SURFACE WATER MANAGEMENT 2022-2027

All costs are in 2021 dollars

Mar. 18, 2022

PROJECT NAME	Project Number	CIP#	2021	2022	2023	2024	2025	2026	2027	Totals
FUNDED PROJECTS:										
RC - Regulatory Compliance Projects - NPDES/TMDL										
RC - Country Club Village Phase B	TBD	SW-A1-36								0
RC - Expanded Private Stormwater Facility Inspection Program - Grant	PRJ100271	" "	39,916	71,067						71,067
RC - Surface Water Manual Re-evaluation and Assessment	PRJ100276	N/A		192,309						192,309
RC - 15th Ave East Greenway Restoration	TBD	SW-A1-34								0
RC - Lower Grand Industrial Area LID Retrofits - Grant	PRJ083662	SW-41	58,068	1,145,397						1,145,397
RC - Blandford Drive Subbasins LID Retrofits - Grant	PRJ100275	SW-47	50,000	200,000	2,738,495					2,938,495
RC - Regulatory Compliance Projects - UIC Retrofits										
RC - UIC Retrofit Ph 1 - Water Quality Treatment	TBD	SW-A1-11								0
RC - UIC Retrofit Ph 2 - Decommission & WQ Treatment	TBD	" "								0
RC - Peterson Channel Greenway Restoration	TBD	SW-A1-11								0
RC - Central Fourth Plain - Grant Application	PRJ083633	SW-62	363	114,637	2,030,000					2,144,637
RC - NE Fourth Plain (123rd-131st South) Water Quality Retrofits - Grant	PRJ100273	SW-45	76,757	817,043						817,043
RC - NE Ross Street LID Retrofits - Grant	PRJ083686	SW-46	79,960	874,040						874,040
RC - East Orchards Fourth Plain Water Quality Retrofits - Grant	PRJ100274	SW-45	97,932	826,968						826,968
RC - Fourth Plain SR500-131st Ave	TBD	SW-A1-11								0
RC - Fourth Plain 131st Ave-162nd Ave	TBD	" "								0
RC - Columbia Way to Columbia River Retrofits	PRJ100384	SW-65		42,000	30,000	40,000	1,746,821			1,858,821
RC - E. Mill Plain UIC Treatment	PRJ100450	SW-63	15,356	54,644	1,651,362					1,706,006
RC - Hearthwood Infiltration Expansion	PRJ100487	SW-50		300,000						300,000
RC - Image Infiltration Expansion	PRJ100488	SW-51		75,000	200,000					275,000
RC - SE 18th Cir. & SE 113th Ave Storm Sewer Upgrade	PRJ100489	SW-52		50,000	200,000					250,000
RC - Fruit Valley Rd. Infiltration Expansion	PRJXXXXX	SW-53			250,000	150,000				400,000
RC - Evergreen Culvert Replacements	PRJXXXXX	SW-54			100,000	250,000				350,000
RC - 27th & P St	PRJXXXXX	SW-55				25,000	150,000			175,000
RC - McGillivray Ponding Rehab	PRJXXXXX	SW-56				50,000	200,000			250,000
RC - North Image & NE 129th Ave	PRJXXXXX	SW-57					20,000	100,000		120,000
RC - Fruit Valley Neighborhood Storm Retrofit	PRJ100642	SW-58	39,680	10,320						10,320
RC - East Mill Plain CTC Basin Study	PRJ100643	SW-59	9,627	100,373						100,373
RC - N. 38th St and F St	TBD	SW-60		10,000						10,000
Arterial Safety Projects -										
SS - 164th Ave Median Swale Retrofit	TBD	SW-A1-24								0
SS - Mill Plain at Hearthwood & Olympia	TBD	SW-A1-24								0
SS - Mill Plain & 164th Ave	TBD	" "								0
SS - Mill Plain & 155th Ave	TBD	SW-A1-24								0
Facility Retrofits Program -										
SS - Fruit Valley Rd	PRJ083642	SW-A1-36		30,000						30,000
SS - Primrose Court DS#105	PRJ083655	SW-A1-36		5,000	23,000	150,000				178,000
SS - Creekside Meadows III (NE 124th Ct & 47th St)	TBD	SW-A1-36								0
SS - Tiffany Meadows (SE 169th & 17th St)	TBD	" "								0
SS - Kristi Lane (NE 35th Cir & 119th Ave)	TBD	SW-A1-36								0
SS - Burnt Bridge Creek Storm Water Outfall - new added to SW-A1-36	PRJ100445	SW-A1-36	78,707	104,000						104,000
Property Acquisitions - Flood Plain, Habitat, Wetlands										
PA - 51st St Sump Basin (2.5 Ac = \$170,000)	TBD	SW-A1-20								0
PA - 15th Ave Wetlands (11 AC = \$405,000)	TBD	SW-A1-38								0
Property Acquisitions Grants \$500,000/year max (Corporate Woods/Kevanna Park)	TBD	SW-A1-20			500,000	500,000	500,000	500,000	500,000	2,500,000
Coordination Projects (SCIP/Trans)-										
DR - Stormwater Demand Response (Drainage Problems)	TBD	SW-A1-12								0
DR - Stormwater Retrofits- Demand (Major Projects)	PRJ083356	SW-A1-12								0
DR - Stormwater Demand Response (DR) - To be Retired/Closed when prj2-4 complete	PRJ100221	" "			50,000	50,000	50,000	50,000		200,000
DR - W 22nd St & Thompson	PRJ100190	SW-64		73,708	100,000	2,304,997				2,478,705
Sub-Standard Systems -										
SS - Columbia Slope Culvert - Mill Creek	PRJ083663	SW-A1-37	54,967							0
SS - Columbia Slope Culvert - Chelsea Culvert	PRJ083664	" "		5,000	145,000					150,000
SS - SE 17th Street Outfall	PRJ083666	SW-48	12,189	237,811						237,811
SS - Fisher's Creek Culvert	TBD	SW-A1-37								0
WSDOT FEE PROJECTS (WSDOT)										
WSDOT Fees - 2018 Use Only	PRJ100223	" "		423						423
WSDOT Fees - 2020	PRJ100449	" "	22,859	648,764	408,040	412,120	416,242	420,404	424,608	2,730,178
WSDOT - SR14 Exit 1 Vegetation	TBD	" "								0
WSDOT - Ellsworth Vegetation	TBD	" "								0
WSDOT - I-5 Leverich East Slope Vegetation	TBD	" "								0
WSDOT - SR500 Andresen Islands Vegetation	TBD	" "								0
WSDOT - SR500 to I-205 Vegetation	TBD	" "								0
WSDOT - SR500 & St Johns Vegetation	TBD	" "								0
WSDOT - SR14 & 164th Ave Vegetation	TBD	" "								0
WSDOT - SR500 & 39th St Vegetation	TBD	" "								0
WSDOT - Orchards UIC Study	TBD	" "								0
WSDOT - 112th Ave & I-205 Revegetation	TBD	" "								0
WP - WATERSHED PLANNING (WP)										
WP - Linda Lane/Central 4th Plain Stormwater Quality	TBD	SW-A1-39								0
WP - Burton Channel Green Retrofit-Basin Study and Design - Grant	PRJ083512	SW-40	77,735	41,996						41,996
WP - NPDES/TMDL Watershed Health & Water Quality Monitoring	PRJ100272	N/A	141,083	158,917						158,917
WP - Source Control (EPA Grant)	PRJ100451	SW-A1-39	18,068	71,932						71,932
WP - Columbia Slope Retrofit Evaluation	PRJ100448	SW-61	58,558	391,442	200,000	232,000				823,442
WP - Columbia Slope WQ Monitoring	PRJ100455	SW-A1-39	69,670	115,330						115,330
WP - Capacity Grant	PRJ100447	SW-A1-39	46,437	3,563						3,563
Operation Coordination Substandard Systems & PIT Cases:										
Cimarron Basin Study and Infiltration Expansion	TBD						150,000	300,000		450,000
UIC Retrofit Ph 2 - Decommission & WQ Treatment	TBD			50,000	150,000					200,000
164th Ave Median Swale Retrofit	TBD				150,000		750,000			900,000
SE Evergreen Hwy & 5th Ave C-Tran	TBD							35,000	100,000	135,000
Metallic Storm Main CCTV Investigation	TBD							250,000		250,000
Non Metallic Storm Main CCTV Investigation	TBD									0
Failed Storm Main Lining & Repair - Ph 1	TBD									0
Failed Storm Main Lining & Repair - Ph 2	TBD									0
East Mill Plain Infiltration Basin Study	TBD									0
East Mill Plain Infiltration Expansion - Ph 1	TBD									0
East Mill Plain Infiltration Expansion - Ph 2	TBD									0
Hiddenbrook & 36th Circle Swale Replacement	TBD				30,000	175,000				205,000
Substandard Swale/LID Retrofits	TBD								200,000	200,000
NE 3rd St Infiltration Expansion	TBD							50,000	150,000	200,000
Fairway Drive Infiltration Expansion	TBD								75,000	75,000
Todd Rd Study and Infiltration Expansion	TBD									0
Old City Cemetery Storm Conveyance Expansion	TBD				50,000	250,000				300,000
Burton Basin Study (Otak 2021):										
NE 112 th Ave, NE 18th St to NE 26 th St	TBD									0
NE 98 th Ave, NE Burton Rd to NE 18 th Ave	TBD									0
NE 97 th Ave, NE 16 th St to NE 7 th St	TBD									0
NE 98 th Ave, NE 10 th St to NE 16 th St & NE 16 th St to NE 102 nd Ave	TBD							1,161,955		1,161,955
NE 92 nd Ave, at 19 th Cir (near Meadowbrook Marsh Park Entrance)	TBD									0
NE Cranbrook Dr, NE Burton Rd to NE 21 st St	TBD									0
NE 21 st St & NE 20 th St, NE 93 rd Ct to NE 96 th Ct & NE 94 th Ct to NE 96 th Ct	TBD									0
NE 105 th Ave, NE 25 th St to NE 22 nd St, continue on NE 102 nd Ave to NE 24 th St	TBD									0
Columbia Slope Study (Herrera 2022):										
Hwy Regional Facility at Hwy 14 at SE Riverside Dr.	TBD								1,500,000	1,500,000
Regional Facility at Wintler Community Park (B)	TBD									0
Hwy Regional Facility at SE 78th Ave and Hwy 14	TBD									0
Regional Facility at Wy/East School Community Park	TBD									0
Bioretention at N Blandford Dr	TBD									0
Green Street at SE McGillivray Blvd and SE Bella Vista Rd	TBD									0

Regional Facility at Wildwood Park	TBD									0
Treatment Vault Retrofit at SE 164th Ave, Shari's Restaurant	TBD									0
Regional Facility at SE 164th Ave and SE Cascade Park Dr	TBD									0
Regional Facility near Biddlewood Park	TBD									0
Green Streets on SE Talton Ave and Cascade Park Dr.	TBD									0
WSDOT Biofiltration Swale Retrofit at Cascade Park Dr.	TBD									0
										0
BBC WQ Study TMDL/SMAP Projects Currently Identified (InHouse Ongoing)								1,500,000	1,500,000	3,000,000
NE 121st Ave north (NO18031)	TBD									0
NE 121st Ave south (NO18027)	TBD									0
NE 49th St Oakbrook Apts (NO17974)	TBD									0
NE 51st Cir E of 112th Ave (NO17967)	TBD									0
NE 112th Ave north side BBC (NO17935)	TBD									0
NE 112th Ave south side BBC (NO17912)	TBD									0
NE 44th St at NE 104th Ave (NO16902)	TBD									0
NE 109th Ave from ivy lined ditch (NO15869)	TBD									0
NE 109th Ave from south side (NO15917)	TBD									0
NE 101st Ct/NE 35th (Site 163649000) Confluence	TBD									0
NE 112th Ave/NE 26th St (NO15005)	TBD									0
DF020 NE 98th Ave (south of Burton) (NO24790)	TBD									0
NE 21st St east of NE 96th Ct (NO30192)	TBD									0
NE 92nd Ave/NE 19th Cir (NO13929)	TBD									0
NE Bridgecreek Ave/ NE 20th St (NO27373)	TBD									0
NE 65th Ave/E 18th St (NO04963)	TBD									0
Devine Road/E 18th St (NO04895)	TBD									0
Stapleton Rd into swale (NO04908)	TBD									0
NE Fourth Plain Brandt Road (NO01683)	TBD									0
NE Fourth Plain Grand to Algona (NO01682)	TBD									0
Linda Lane Vault (NO06184)	TBD									0
Drummond Ave/E. 33rd St (NO24308)	TBD									0
Arnold Park/ NE St John's/St James (NO15529)	TBD									0
NE 41st Circle (historic site BBC3.4) (NO06483)	TBD									0
NE 14th Ave/NE 43rd St (NO15940)	TBD									0
										0
Future Studies and Projects/Programs for Further Analysis and Prioritization:										0
BBC Orchards Study (Herrera 2016)	TBD									0
BBC Outfalls Study (Parametrix 2022) Future TMDL/SMAP Projects	TBD									0
UIC Study (Consultant TBD 2021 - 2023) including Decommissioning	TBD									0
Peterson Channel Basin - 112th & Ivy Ditch	TBD									0
Fruit Valley Road Study/Project	TBD									0
East Mill Plain CTC Projects	TBD									0
E 164th Median Swale Retrofits	TBD									0
Greenway & Creek Restoration Program	TBD									0
Arnold Park Study	TBD									0
Central 4th Pln Basin Study	TBD									0
51st Sump Area Study & Property	TBD									0
Downtown Capacity & Condition Assessment (CH Study 90's)	TBD									0
Urban Forestry & Canopy Desert Basin TMDL Coordination	TBD									0
DePave Program	TBD									0
Property Acquisition Program	TBD									0
Swale Retrofit Program (Sadd&Clark)	TBD									0
Pump Station Study and Retrofits	TBD									0
CCTV (metal pipes, outfalls, culverts)	TBD									0
Outfall Assessment & Replacement/Repair Program (ie East I-5 to Columbia)	TBD									0
Sweepers and Vactors - Grants	TBD									0
										0
NEW PROJECTS										0
Stormwater Pollution Enhanced Source Control	PRJ100586	9,711	190,289							190,289
Topper's Landing Outfall Repair	PRJ100514	166,292								0
Talton Storm Sewer Extension	PRJ100403	75,854								0
Downtown IDDE Study	PRJ100404	238	1							1
Ecology SFAP Grants \$5 million/year max	TBD					5,000,000	5,000,000	5,000,000	5,000,000	20,000,000
CIP Total for Planned Projects		1,300,027	6,961,974	8,675,897	9,544,117	9,408,063	9,367,359	9,449,608	53,407,018	

*Project timing is dependent upon the timing of the coordinating project

**2021 Amounts include revised delivery amount or actual spent in 2021 (as of October), whichever is higher

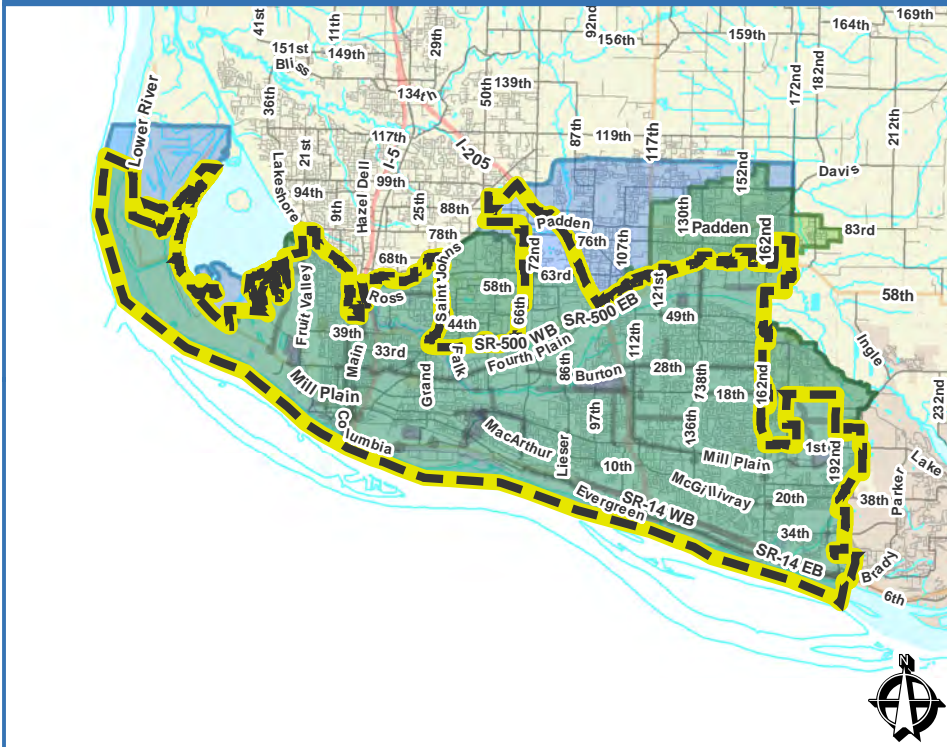
Shading indicates not included in 6-year plan, but money expected to be spent in 2021



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WSDOT FEE PROJECTS

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	State Fee Projects
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Projects are for surface water from Washington State right-of-way.

Project Justification/Priority

Annual fee project for Washington State Department of Transportation. Projects include piping and drainage ways, water quality, and property acquisition. Project cost estimated at \$353,000 per year. State code provides imposition of charges with respect to surface water from state highway right of ways.

LEGEND

- Project Area
- Transportation Project Areas Fixed
- Sanitary Sewer Project Areas Fixed
- Surface Water Project Areas Fixed
- Water Project Areas Fixed
- SCIP Project Areas Fixed
- Project Polys
- Vancouver City Limits
- Clark County
- Battle Ground
- Camas
- Washougal

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ083154
Budget / Proj. Task #:	PRJ083154
Total Project Cost:	\$2,500,000.00
*Start of Const. (Year):	2019

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

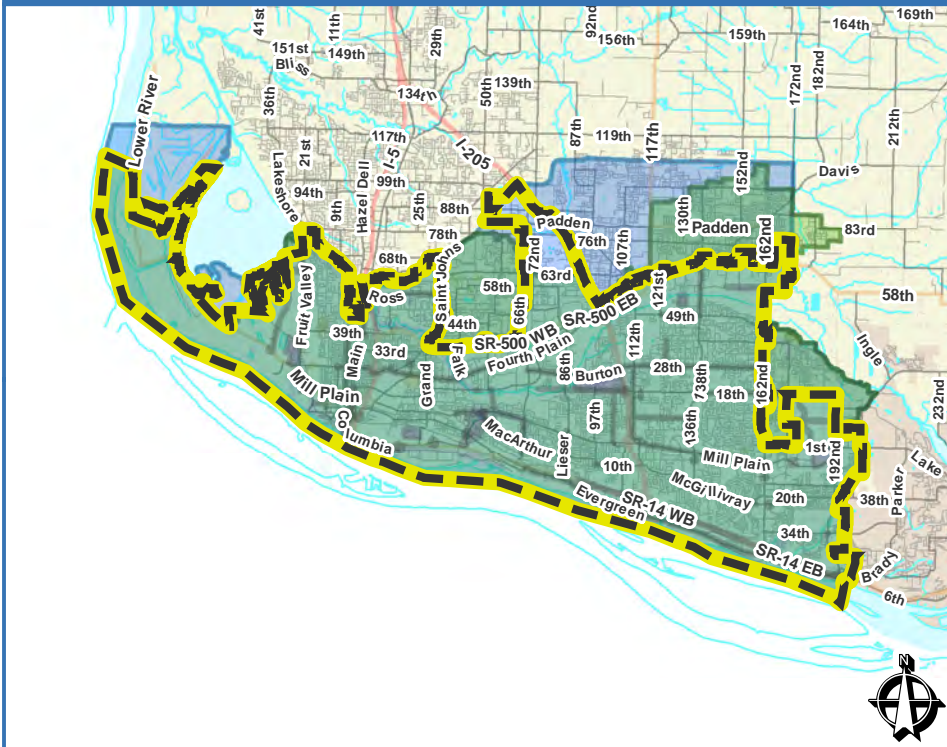
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: UNDERGROUND INJECTION CONTROL RETROFITS

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Regulatory Compliance
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Program to retrofit our existing underground injection control system, as required by new state NPDES permit regulations.

Project Justification/Priority

State regulations require new and existing UICs (i.e. stormwater infiltration systems) meet specific requirements to protect groundwater quality.....Retrofit projects include: reconstructing systems, raising systems, adding water quality treatment, replacing systems to detain, treat and discharge to surface water. Projects include *Fourth Plain-SR500 to 131st Ave (#TBD - Sched. For 2023), Fourth Plain-131st Ave to 162nd Ave (#TBD-Sched. For 2024), UIC Retrofits Ph 1-3 (Ph1 #TBD-Sched. In 2023, Ph.2 #TBD sched in 2025).

LEGEND

- Project Area
- SCIP Project Areas Fixed
- Camas
- Transportation Project Areas Fixed
- Project Polys
- Washougal
- Sanitary Sewer Project Areas Fixed
- Vancouver City Limits
- Surface Water Project Areas Fixed
- Clark County
- Water Project Areas Fixed
- Battle Ground

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	SW Const. Fund
Budget / Proj. Task #:	varies
Total Project Cost:	\$2,135,000.00
*Start of Const. (Year):	2020

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: STORMWATER RETROFITS - DEMAND RESPONSE

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Emergency or Critical Demand
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Ongoing fund for unanticipated projects, both within Public Works and other departments.

Project Justification/Priority

Coordination Projects budgeted in the 443 Surfacewater Construction Fund. Projects may include: Roadway Coordination, Traffic Hazard/Property Threatening High Water, Slope Stability/Erosion Prevention, Tree Plantings, NPDES Permitting, and Surface Water Monitoring for Quality and Quantity.

LEGEND

- Project Area
- SCIP Project Areas Fixed
- Camas
- Transportation Project Areas Fixed
- Project Polys
- Washougal
- Sanitary Sewer Project Areas Fixed
- Vancouver City Limits
- Surface Water Project Areas Fixed
- Clark County
- Water Project Areas Fixed
- Battle Ground

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ083556
Budget / Proj. Task #:	PRJ083556
Total Project Cost:	\$200,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: FACILITY RETROFIT PROGRAM

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Stormwater Retrofit Coordination
Project Status:	Active

PROJECT DESCRIPTION

Project Description

This Surface Water management program identifies substandard facilities, and retrofits swales to meet current water quality standards.

Project Justification/Priority

Budgeted in the 443 Surfacewater Construction Fund - This program will retrofit swales providing new facilities that meeting the city's current standards for water quality and maintenance. Assessment of the city's swale facility assets resulted in a priority list of swale requiring retrofits. The top six swales include Primrose Court, Brickhaven, Tiffany Meadows, Creekside Meadows III, Kristi Lane, and Oak Run. Each swale project will include a cost benefit analysis for projected savings return on maintenance costs. Oak Run and Brickhaven completed in 2017. Current projects are *2021 projects for Fruit Valley Rd. (PRJ0836342) for \$30 K and SE 17th St Outfall (PRJ083666) for \$334K; and 2023/24 biennium: Primrose Court (\$23K), Creekside Meadows (\$27K); Tiffany Meadows (\$31K); Kristi Lane (\$90K).

LEGEND

- Project Area
- SCIP Project Areas Fixed
- Camas
- Transportation Project Areas Fixed
- Project Polys
- Washougal
- Sanitary Sewer Project Areas Fixed
- Vancouver City Limits
- Surface Water Project Areas Fixed
- Clark County
- Water Project Areas Fixed
- Battle Ground

VICINITY MAP



FUNDING & SCHEDULE

Budget / Project #:	443 / Surface Water Construction Fund
Budget / Proj. Task #:	varies
Total Project Cost:	\$312,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: SUBSTANDARD SYSTEMS PROGRAM

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Stormwater Retrofit Coordinati
Project Status:	Active

PROJECT DESCRIPTION

Project Description

This Surface Water management program identifies and retrofits or replaces sub-standard stormwater systems.

Project Justification/Priority

Budgeted in the 443 Surfacewater Construction Fund: This program is for culverts and pipes that have reached the end of their life cycle in need of repair or drywells that continue to overflow even with repeated maintenance and cleaning. Projects are prioritized based upon severity criteria such as traffic safety, potential property damage, nuisance flooding, etc. Current projects include Columbia Slope Culvert - Mill Creek (PRJ083663 - \$600K in 2019-2021) ; Fisher's Creek Culvert (PRJ-TBD-\$160K in 2023); Columbia Slope Culvert - Chelsea Culvert (PRJ083644 \$245K in 2023).

LEGEND

- Project Area
- SCIP Project Areas Fixed
- Camas
- Transportation Project Areas Fixed
- Project Polys
- Washougal
- Sanitary Sewer Project Areas Fixed
- Vancouver City Limits
- Surface Water Project Areas Fixed
- Clark County
- Water Project Areas Fixed
- Battle Ground

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #	443 SW Construction Fund
Budget / Proj. Task #:	varies
Total Project Cost:	\$562,590.00
*Start of Const. (Year):	Ongoing

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **BURTON CHANNEL LID RETROFIT PLANNING & DESIGN- (100% FUNDED BY ECOLOGY GRANT)**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Active

PROJECT DESCRIPTION

Project Description

This is an "Underground Injection Control Retrofit" project for Burton Channel, 100% funded by Ecology grant.

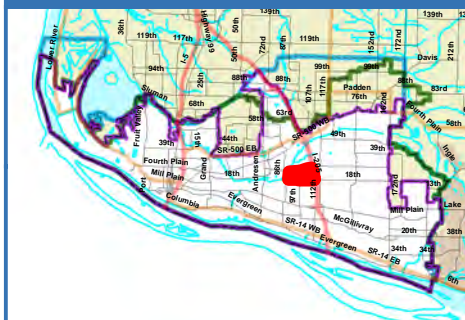
Project Justification/Priority

This study for Burton Channel will result in proposed projects to secure Ecology Grant funding 300 Grants - State for Stormwater LID retrofit improvements. Stormwater runoff is currently discharged untreated into drywells located throughout the subdivision. The shallow groundwater contributes base flow to Burnt Bridge Creek.

LEGEND

- | | | |
|------------------------------------|--------------------------|-----------|
| Project Area | SCIP Project Areas Fixed | Camas |
| Transportation Project Areas Fixed | Project Polys | Washougal |
| Sanitary Sewer Project Areas Fixed | Vancouver City Limits | |
| Surface Water Project Areas Fixed | Clark County | |
| Water Project Areas Fixed | Battle Ground | |

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ083512
Budget / Proj. Task #:	083512
Total Project Cost:	\$128,000.00
*Start of Const. (Year):	2019

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: LOWER GRAND AVE. INDUSTRIAL LID RETROFITS

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Surface Water</p> <p>Project Type: Ecology Retrofit Grant</p> <p>Project Status: Active</p>	
<h3>LEGEND</h3> <ul style="list-style-type: none"> Project Area Transportation Project Areas Fixed Sanitary Sewer Project Areas Fixed Surface Water Project Areas Fixed Water Project Areas Fixed SCIP Project Areas Fixed Project Polys Vancouver City Limits Clark County Battle Ground Camas Washougal 	<h3>PROJECT DESCRIPTION</h3> <p>Project Description This will construct Low Impact Development improvements in Lower Grand Industrial Area and is 75% funded by Ecology grant.</p> <p>Project Justification/Priority These Water Quality retrofits are needed to improve surface water and water quality treatment systems in the lower Grand Industrial Area, in the vicinity of SE 2nd St and "Y". Project design began, in 2019, with construction planned for 2021. Project will install several improvements within the Lower Grand Industrial Area (SE 1st St and "Y" St). This includes new sections of impervious pavement on new roads, and installation of vegetation bio-retention facilities. Improve drainage by adding improvements to manage stormwater runoff.</p>	
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ083662</p> <p>Budget / Proj. Task #: PRJ083662</p> <p>Total Project Cost: \$1,200,000.00</p> <p>*Start of Const. (Year): 2021</p>

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

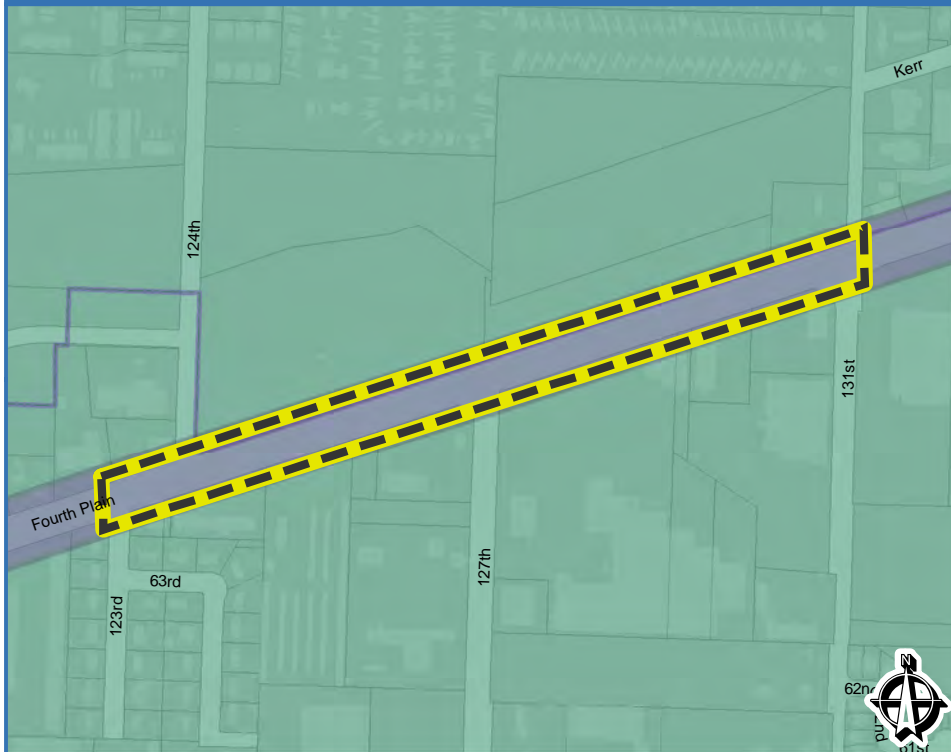
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **NE 4TH PLAIN (NE 123RD AVE TO NE 131ST AVE) WQ RETROFITS - NORTH & SOUTH SIDE -300 GRANTS - STATE**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Water quality retrofits to improve surface water facilities in the NE 4th Plain corridor between NE 123rd Ave. to NE 131st Ave.

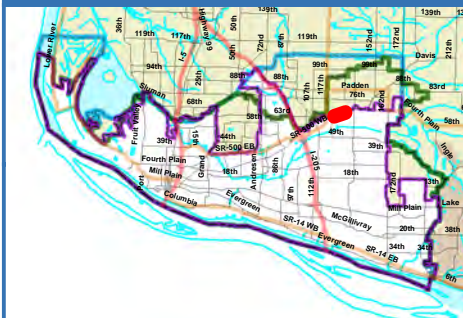
Project Justification/Priority

*North side NE 4th Plain (PRJ100274) -project costs estimated at: \$ 41K Design, \$ 660K Construction; *South side (PRJ100273) -NE 4th Plain project costs estimated at \$ 43K design and \$760K construction. Both projects total \$86K for design, and \$1.42M for construction. This is an Ecology grant funded project to retrofit the storm systems along the south half of NE Fourth Plain from 123rd to 131st Avenue. This project will construct 12 bio-retention facilities and Silva Cell storage units along the south half of the street, and 13 bio-retention facilities on the north side. Untreated stormwater runoff from this principal arterial road, infiltrates via drywells impacting surface and groundwater quality as subsurface flow contributes to baseflow in Burnt Bridge Creek and may migrate deeper into the City's drinking water aquifer. A recent planning study of Orchards basin identified this corridor as a top priority for stormwater quality retrofits. This project will reduce total suspended solids, oil & grease and heavy metals which will result in improved water quality.

LEGEND

- Project Area
- SCIP Project Areas Fixed
- Camas
- Transportation Project Areas Fixed
- Project Polys
- Washougal
- Sanitary Sewer Project Areas Fixed
- Vancouver City Limits
- Surface Water Project Areas Fixed
- Clark County
- Water Project Areas Fixed
- Battle Ground

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100273
Budget / Proj. Task #:	PRJ100273/274
Total Project Cost:	\$1,898,000.00
*Start of Const. (Year):	2022

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: NE ROSS ST. LID RETROFITS

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Surface Water</p> <p>Project Type: Ecology Retrofit Grant</p> <p>Project Status: Active</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas Fixed</td> <td> Camas</td> </tr> <tr> <td> Transportation Project Areas Fixed</td> <td> Project Polys</td> <td> Washougal</td> </tr> <tr> <td> Sanitary Sewer Project Areas Fixed</td> <td> Vancouver City Limits</td> <td></td> </tr> <tr> <td> Surface Water Project Areas Fixed</td> <td> Clark County</td> <td></td> </tr> <tr> <td> Water Project Areas Fixed</td> <td> Battle Ground</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas Fixed	Camas	Transportation Project Areas Fixed	Project Polys	Washougal	Sanitary Sewer Project Areas Fixed	Vancouver City Limits		Surface Water Project Areas Fixed	Clark County		Water Project Areas Fixed	Battle Ground		<h3>PROJECT DESCRIPTION</h3> <p>Project Description Water Quality retrofits to improve surface water quality treatment systems in the NE Ross St corridor in the vicinity of NE 15th Ave.</p> <p>Project Justification/Priority NE Ross St. is a city owned roadway that has a traditional storm drainage collection system with a series of inlets connected to an underground storm pipe. This collection system discharges directly to Burnt Bridge Creek which is a 303d listed stream. This stream has a TMDL under development for impairments of concern including fecal coliform, temperature, dissolved oxygen, and pH. This project will reduce pollutant discharges to the creek by disconnecting roadway runoff from the existing storm pipeline. New collection facilities will be built to convey this runoff to new flow control and treatment BMP facilities. Dry wells will be provided downstream of the bioretention swales to provide additional infiltration, flow control and runoff treatment.</p>
Project Area	SCIP Project Areas Fixed	Camas														
Transportation Project Areas Fixed	Project Polys	Washougal														
Sanitary Sewer Project Areas Fixed	Vancouver City Limits															
Surface Water Project Areas Fixed	Clark County															
Water Project Areas Fixed	Battle Ground															
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: 300 Grants - State</p> <p>Budget / Proj. Task #: PRJ083686</p> <p>Total Project Cost: \$984,000.00</p> <p>*Start of Const. (Year): 2022</p>														

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

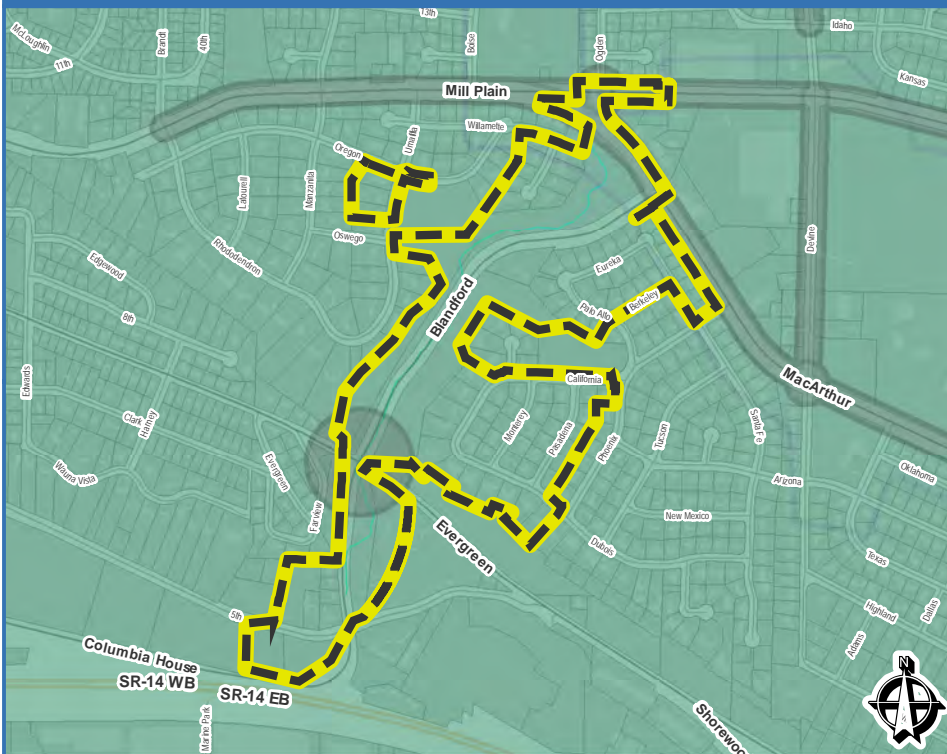
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: BLANDFORD DRIVE SUBBASINS LID RETROFITS - GRANT FUNDED

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type: Surface Water
Project Type:
Project Status: Active

PROJECT DESCRIPTION

Project Description

Water Quality retrofits to improve surface water quality treatment systems in the Blandford Drive Corridor, in the vicinity of Evergreen Blvd.

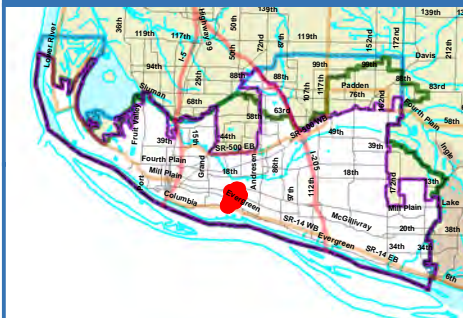
Project Justification/Priority

The Blandford canyon discharges to a low-lying area along Columbia House Blvd. which is privately owned and adjacent to a city drinking water well and water production facility. The City is responsible for water quality and flow within this the public right of way. The city would like to retrofit the public right-of-way with LID Best Management Practices. This would include disconnecting roadway runoff from the existing storm pipelines, and install new collection and conveyance to new treatment and flow control BMP's. The existing outfall would be maintained for emergency overflow. This is an Ecology grant funded (75%) project to retrofit the storm systems in the streets that contribute stormwater runoff to the Blandford Drive basin. The project will use Low Impact Development techniques, specifically bioretention facilities, to provide water quality treatment and infiltration of stormwater. Currently the runoff contributes flow to areas adjacent to the city drinking water well station. This project will provide water quality benefit to the surface water and protect groundwater.

LEGEND

- Project Area
- Transportation Project Areas Fixed
- Sanitary Sewer Project Areas Fixed
- Surface Water Project Areas Fixed
- Water Project Areas Fixed
- SCIP Project Areas Fixed
- Project Polys
- Vancouver City Limits
- Clark County
- Battle Ground
- Camas
- Washougal

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #: PRJ100275
Budget / Proj. Task #: PRJ100275
Total Project Cost: **\$3,059,900.00**
***Start of Const. (Year):** 2020

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: IMAGE INFILTRATION EXPANSION

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type: Surface Water
Project Type:
Project Status: Active

PROJECT DESCRIPTION

Project Description

New Surface Water system retrofits to improve system capacity.

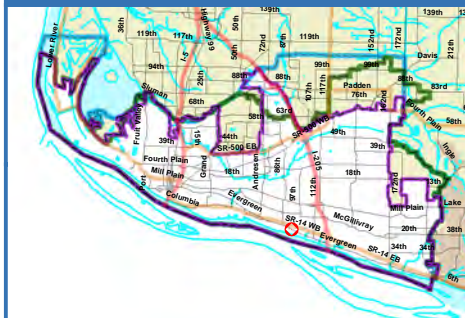
Project Justification/Priority

SW-A1-11 RC UIC Retrofits. This project will expand the substandard system, improving performance to prevent localized flooding.

LEGEND

- Project Area
- SCIP Project Areas Fixed
- Camas
- Transportation Project Areas Fixed
- Project Polys
- Washougal
- Sanitary Sewer Project Areas Fixed
- Vancouver City Limits
- Surface Water Project Areas Fixed
- Clark County
- Water Project Areas Fixed
- Battle Ground

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #: PRJXXXXXX
Budget / Proj. Task #:
Total Project Cost: \$275,000.00
***Start of Const. (Year):** 2022

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: SE 18TH CIRCLE AND SE 113TH AVE UPGRADE

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type: Surface Water
Project Type:
Project Status: Active

PROJECT DESCRIPTION

Project Description

New Surface Water system retrofits to improve system capacity.

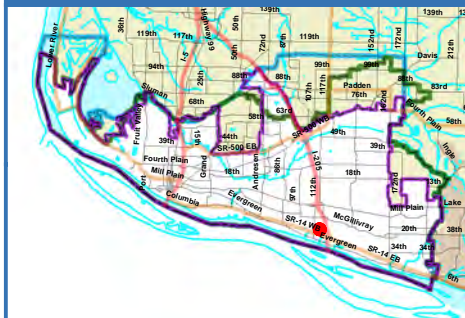
Project Justification/Priority

SW-A1-11 RC UIC Retrofits. This project will expand the substandard system, improving performance to prevent localized flooding.

LEGEND

- Project Area
- SCIP Project Areas Fixed
- Camas
- Transportation Project Areas Fixed
- Project Polys
- Washougal
- Sanitary Sewer Project Areas Fixed
- Vancouver City Limits
- Surface Water Project Areas Fixed
- Clark County
- Water Project Areas Fixed
- Battle Ground

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #: PRJXXXXXX
Budget / Proj. Task #:
Total Project Cost: \$250,000.00
***Start of Const. (Year):** 2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

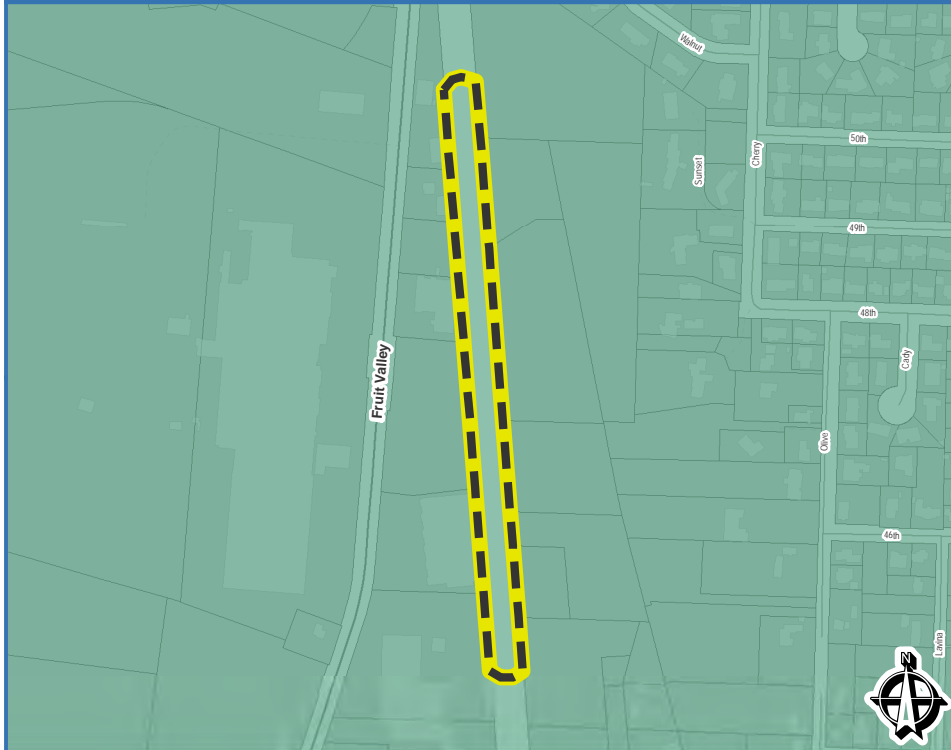
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: FRUIT VALLEY ROAD INFILTRATION EXPANSION

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type: Surface Water
Project Type:
Project Status: Future

PROJECT DESCRIPTION

Project Description

New surface water system retrofits to improve system capacity.

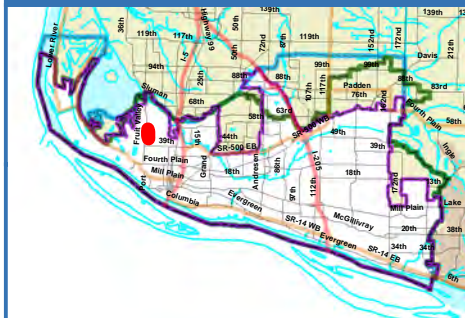
Project Justification/Priority

SW-A1-11 RC UIC Retrofits. This project will expand the substandard system to help address the frequent flooding in Fruit Valley Road.

LEGEND

- Project Area
- Transportation Project Areas Fixed
- Sanitary Sewer Project Areas Fixed
- Surface Water Project Areas Fixed
- Water Project Areas Fixed
- SCIP Project Areas Fixed
- Project Polys
- Vancouver City Limits
- Clark County
- Battle Ground
- Camas
- Washougal

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #: PRJXXXXXX
Budget / Proj. Task #:
Total Project Cost: \$400,000.00
***Start of Const. (Year):** 2023

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: EVERGREEN CULVERT REPLACEMENTS

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Surface Water</p> <p>Project Type:</p> <p>Project Status: Future</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas Fixed</td> <td> Camas</td> </tr> <tr> <td> Transportation Project Areas Fixed</td> <td> Project Polys</td> <td> Washougal</td> </tr> <tr> <td> Sanitary Sewer Project Areas Fixed</td> <td> Vancouver City Limits</td> <td></td> </tr> <tr> <td> Surface Water Project Areas Fixed</td> <td> Clark County</td> <td></td> </tr> <tr> <td> Water Project Areas Fixed</td> <td> Battle Ground</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas Fixed	Camas	Transportation Project Areas Fixed	Project Polys	Washougal	Sanitary Sewer Project Areas Fixed	Vancouver City Limits		Surface Water Project Areas Fixed	Clark County		Water Project Areas Fixed	Battle Ground		<h3>PROJECT DESCRIPTION</h3> <p>Project Description New surface water system retrofits to improve system capacity.</p> <p>Project Justification/Priority SW-A1-11 RC UIC Retrofits. This project will assess and prioritize repairs and replacement of culverts under Evergreen Hwy. The majority of these culverts date back to the original construction of Evergreen Hwy.</p>
Project Area	SCIP Project Areas Fixed	Camas														
Transportation Project Areas Fixed	Project Polys	Washougal														
Sanitary Sewer Project Areas Fixed	Vancouver City Limits															
Surface Water Project Areas Fixed	Clark County															
Water Project Areas Fixed	Battle Ground															
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJXXXXXX</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$400,000.00</p> <p>*Start of Const. (Year): 2023</p>														

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **27TH & P ST**

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Surface Water</p> <p>Project Type:</p> <p>Project Status: Future</p>	
<h3>LEGEND</h3> <ul style="list-style-type: none"> Project Area Transportation Project Areas Fixed Sanitary Sewer Project Areas Fixed Surface Water Project Areas Fixed Water Project Areas Fixed SCIP Project Areas Fixed Project Polys Vancouver City Limits Clark County Battle Ground Camas Washougal 	<h3>PROJECT DESCRIPTION</h3> <p>Project Description New surface water system retrofits to improve system capacity.</p> <p>Project Justification/Priority SW-A1-11 RC UIC Retrofits; to expand the substandard system to help address the frequent flooding in this intersection.</p>	
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJXXXXXX</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$175,000.00</p> <p>*Start of Const. (Year): 2024</p>

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: MCGILLIVRAY PONDING REHABILITATION

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Surface Water</p> <p>Project Type:</p> <p>Project Status: Future</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas Fixed</td> <td> Camas</td> </tr> <tr> <td> Transportation Project Areas Fixed</td> <td> Project Polys</td> <td> Washougal</td> </tr> <tr> <td> Sanitary Sewer Project Areas Fixed</td> <td> Vancouver City Limits</td> <td></td> </tr> <tr> <td> Surface Water Project Areas Fixed</td> <td> Clark County</td> <td></td> </tr> <tr> <td> Water Project Areas Fixed</td> <td> Battle Ground</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas Fixed	Camas	Transportation Project Areas Fixed	Project Polys	Washougal	Sanitary Sewer Project Areas Fixed	Vancouver City Limits		Surface Water Project Areas Fixed	Clark County		Water Project Areas Fixed	Battle Ground		<h3>PROJECT DESCRIPTION</h3> <p>Project Description New surface water system retrofits to improve system capacity.</p> <p>Project Justification/Priority SW-A1-11 RC UIC Retrofits, to expand the substandard system to help address the frequent flooding in this intersection.</p>
Project Area	SCIP Project Areas Fixed	Camas														
Transportation Project Areas Fixed	Project Polys	Washougal														
Sanitary Sewer Project Areas Fixed	Vancouver City Limits															
Surface Water Project Areas Fixed	Clark County															
Water Project Areas Fixed	Battle Ground															
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJXXXXXX</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$250,000.00</p> <p>*Start of Const. (Year): 2024</p>														

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **NORTH IMAGE - NE 129TH AVE.**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type: Surface Water
Project Type:
Project Status: Future

PROJECT DESCRIPTION

Project Description

New surface water system retrofits to improve system capacity.

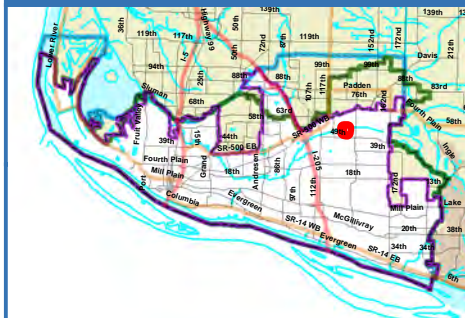
Project Justification/Priority

SW-A1-11 RC UIC Retrofits -This project will expand the substandard system, improving performance to prevent localized flooding.

LEGEND

- Project Area
- SCIP Project Areas Fixed
- Transportation Project Areas Fixed
- Sanitary Sewer Project Areas Fixed
- Surface Water Project Areas Fixed
- Water Project Areas Fixed
- Camas
- Project Polys
- Vancouver City Limits
- Clark County
- Washougal
- Battle Ground

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #: PRJXXXXXX
Budget / Proj. Task #:
Total Project Cost: \$120,000.00
***Start of Const. (Year):** 2025

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

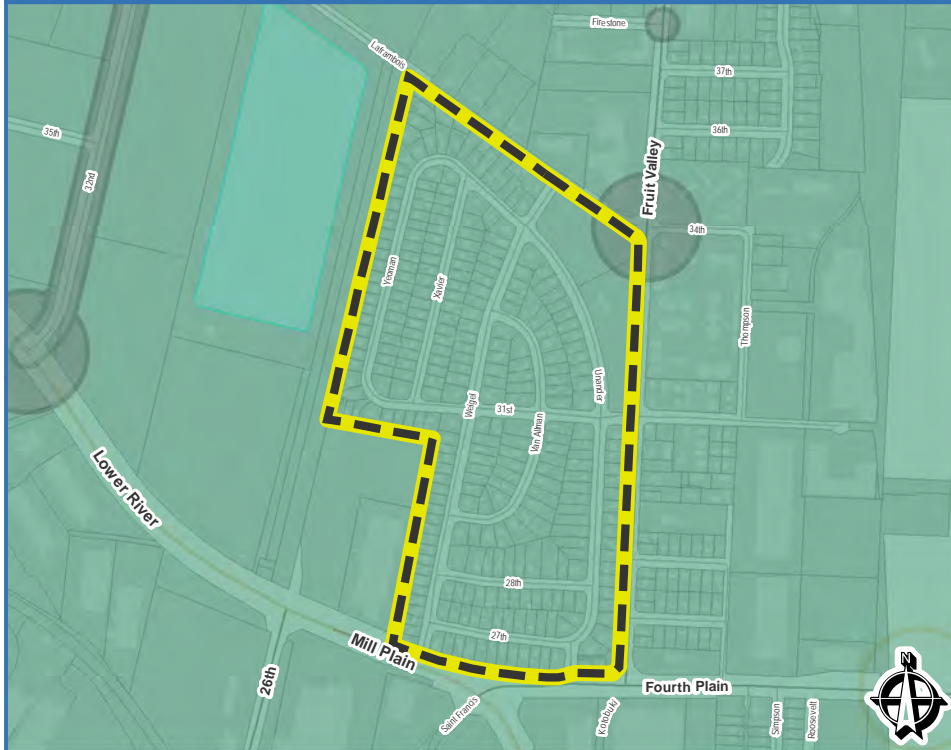
**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: FRUIT VALLEY NEIGHBORHOOD STORM RETROFIT

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Active

PROJECT DESCRIPTION

Project Description

This is an Ecology grant funded project to fix residential street flooding.

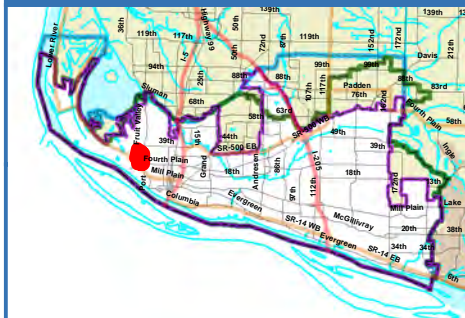
Project Justification/Priority

Many residences experience recurring flooding into their yards. The project will install stormwater treatment and infiltration throughout the neighborhood on residential streets to minimize the street and yard flooding. It will also relieve the amount of stormwater the Fruit Valley stormwater pump station has to pump during large rain storms.

LEGEND

- | | | |
|------------------------------------|--------------------------|-----------|
| Project Area | SCIP Project Areas Fixed | Camas |
| Transportation Project Areas Fixed | Project Polys | Washougal |
| Sanitary Sewer Project Areas Fixed | Vancouver City Limits | |
| Surface Water Project Areas Fixed | Clark County | |
| Water Project Areas Fixed | Battle Ground | |

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100642
Budget / Proj. Task #:	
Total Project Cost:	\$50,000.00
*Start of Const. (Year):	2022

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: E. MILL PLAIN CTC BASIN STUDY

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Safety
Project Status:	Active

PROJECT DESCRIPTION

Project Description

System basin study to identify alternatives to address localized flooding.

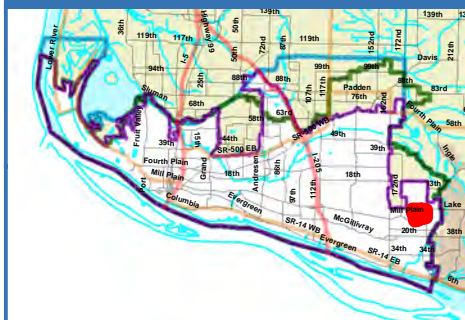
Project Justification/Priority

This basin study project is analyzing the area with rainwater flowing off parking lots that drains through pipes to SE 184th Ave and Mill Plain. This area is an isolated low spot that soon after construction by the city began experiencing frequent flooding. There have already been multiple phases of improvements to the stormwater system to help rectify the situation and prevent flooding that is impassable to vehicular traffic during heavy rains. This engineering study will come up with multiple suggested solutions and estimates for addressing the flooding. Surface Water Management Engineer's are working in coordination with PacTrust the area Developer. The intent is to have a coordinated improvement, prior to their future developments.

LEGEND

Project Area	SCIP Project Areas Fixed	Camas
Transportation Project Areas Fixed	Project Polys	Washougal
Sanitary Sewer Project Areas Fixed	Vancouver City Limits	
Surface Water Project Areas Fixed	Clark County	
Water Project Areas Fixed	Battle Ground	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100643
Budget / Proj. Task #:	
Total Project Cost:	\$110,000.00
*Start of Const. (Year):	2022

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **N 38TH ST AND F ST**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Emergency or Critical Demand
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Extend the existing conveyance system a block west of the intersection, and north into the alley between F and Main St.

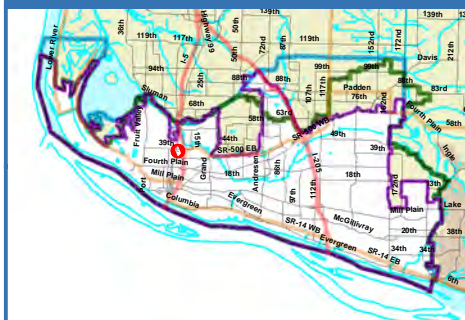
Project Justification/Priority

Extend existing system so there will be new pipe that meets current size standards to convey all of the flow from the alley. This will minimize maintenance and the potential for flooding.

LEGEND

- | | | |
|------------------------------------|--------------------------|-----------|
| Project Area | SCIP Project Areas Fixed | Camas |
| Transportation Project Areas Fixed | Project Polys | Washougal |
| Sanitary Sewer Project Areas Fixed | Vancouver City Limits | |
| Surface Water Project Areas Fixed | Clark County | |
| Water Project Areas Fixed | Battle Ground | |

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	TBD
Budget / Proj. Task #:	
Total Project Cost:	\$10,000.00
*Start of Const. (Year):	2022

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: COLUMBIA SLOPE STUDY

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Surface Water</p> <p>Project Type: Ecology Retrofit Grant</p> <p>Project Status: Active</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas Fixed</td> <td> Camas</td> </tr> <tr> <td> Transportation Project Areas Fixed</td> <td> Project Polys</td> <td> Washougal</td> </tr> <tr> <td> Sanitary Sewer Project Areas Fixed</td> <td> Vancouver City Limits</td> <td></td> </tr> <tr> <td> Surface Water Project Areas Fixed</td> <td> Clark County</td> <td></td> </tr> <tr> <td> Water Project Areas Fixed</td> <td> Battle Ground</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas Fixed	Camas	Transportation Project Areas Fixed	Project Polys	Washougal	Sanitary Sewer Project Areas Fixed	Vancouver City Limits		Surface Water Project Areas Fixed	Clark County		Water Project Areas Fixed	Battle Ground		<h3>PROJECT DESCRIPTION</h3> <p>Project Description Ecology grant funded water quality monitoring study at eleven sites within the Columbia basin. City match of \$207,983.00.</p> <p>Project Justification/Priority 1) - Compliance with WDOE regulations, To find surface water impacts to local receiving water quality, and help prioritize needed surface water retrofits.</p>
Project Area	SCIP Project Areas Fixed	Camas														
Transportation Project Areas Fixed	Project Polys	Washougal														
Sanitary Sewer Project Areas Fixed	Vancouver City Limits															
Surface Water Project Areas Fixed	Clark County															
Water Project Areas Fixed	Battle Ground															
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ100448</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$207,983.00</p> <p>*Start of Const. (Year): 2021</p>														

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **FOURTH PLAIN CENTRAL - SR500 TO NE 131ST AVE.**

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Surface Water</p> <p>Project Type: Ecology Retrofit Grant</p> <p>Project Status: Active</p>	
<h3>LEGEND</h3> <ul style="list-style-type: none"> Project Area Transportation Project Areas Fixed Sanitary Sewer Project Areas Fixed Surface Water Project Areas Fixed Water Project Areas Fixed SCIP Project Areas Fixed Project Polys Vancouver City Limits Clark County Battle Ground Camas Washougal 	<h3>PROJECT DESCRIPTION</h3> <p>Project Description Underground Injection Control retrofits. City match of \$541,250.00.</p> <p>Project Justification/Priority 1) - Compliance with WDOE regulations, replacing and retrofitting existing underground injection control systems</p>	
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ083633</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$2,200,000.00</p> <p>*Start of Const. (Year): 2022</p>

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: E. MILL PLAIN UIC TREATMENT

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Underground Injection Control retrofits. City match of \$430,341.00.

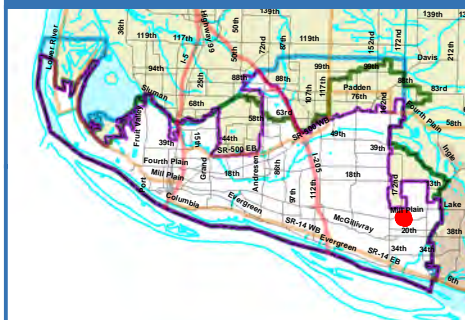
Project Justification/Priority

- 1) - Compliance with WDOE regulations, replacing and retrofitting existing underground injection control systems

LEGEND

Project Area	SCIP Project Areas Fixed	Camas
Transportation Project Areas Fixed	Project Polys	Washougal
Sanitary Sewer Project Areas Fixed	Vancouver City Limits	
Surface Water Project Areas Fixed	Clark County	
Water Project Areas Fixed	Battle Ground	

VICINITY MAP



FUNDING & SCHEDULE

Budget / Proj. #:	PRJ100450
Budget / Proj. Task #:	
Total Project Cost:	\$1,700,000.00
*Start of Const. (Year):	2021

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **W. 22ND. ST AND THOMPSON**

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Surface Water</p> <p>Project Type: Ecology Retrofit Grant</p> <p>Project Status: Active</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas Fixed</td> <td> Camas</td> </tr> <tr> <td> Transportation Project Areas Fixed</td> <td> Project Polys</td> <td> Washougal</td> </tr> <tr> <td> Sanitary Sewer Project Areas Fixed</td> <td> Vancouver City Limits</td> <td></td> </tr> <tr> <td> Surface Water Project Areas Fixed</td> <td> Clark County</td> <td></td> </tr> <tr> <td> Water Project Areas Fixed</td> <td> Battle Ground</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas Fixed	Camas	Transportation Project Areas Fixed	Project Polys	Washougal	Sanitary Sewer Project Areas Fixed	Vancouver City Limits		Surface Water Project Areas Fixed	Clark County		Water Project Areas Fixed	Battle Ground		<h3>PROJECT DESCRIPTION</h3> <p>Project Description Underground Injection Control retrofits. City match of \$618,719.00</p> <p>Project Justification/Priority 1) - Compliance with WDOE regulations, replacing and retrofitting existing underground injection control systems</p>
Project Area	SCIP Project Areas Fixed	Camas														
Transportation Project Areas Fixed	Project Polys	Washougal														
Sanitary Sewer Project Areas Fixed	Vancouver City Limits															
Surface Water Project Areas Fixed	Clark County															
Water Project Areas Fixed	Battle Ground															
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ100190</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$618,719.00</p> <p>*Start of Const. (Year): 2022</p>														

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



2022 - 2027 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: COLUMBIA WAY TO COLUMBIA RIVER RETROFITS

<h3>PROJECT AREA MAP</h3>	<h3>PROJECT SUMMARY</h3> <p>Program/Discipline Type: Surface Water</p> <p>Project Type: Ecology Retrofit Grant</p> <p>Project Status: Active</p>															
<h3>LEGEND</h3> <table border="0"> <tr> <td> Project Area</td> <td> SCIP Project Areas Fixed</td> <td> Camas</td> </tr> <tr> <td> Transportation Project Areas Fixed</td> <td> Project Polys</td> <td> Washougal</td> </tr> <tr> <td> Sanitary Sewer Project Areas Fixed</td> <td> Vancouver City Limits</td> <td></td> </tr> <tr> <td> Surface Water Project Areas Fixed</td> <td> Clark County</td> <td></td> </tr> <tr> <td> Water Project Areas Fixed</td> <td> Battle Ground</td> <td></td> </tr> </table>	Project Area	SCIP Project Areas Fixed	Camas	Transportation Project Areas Fixed	Project Polys	Washougal	Sanitary Sewer Project Areas Fixed	Vancouver City Limits		Surface Water Project Areas Fixed	Clark County		Water Project Areas Fixed	Battle Ground		<h3>PROJECT DESCRIPTION</h3> <p>Project Description Underground Injection Control retrofits. City match of \$461,705.00.</p> <p>Project Justification/Priority 1) - Compliance with WDOE regulations, replacing and retrofitting existing underground injection control systems</p>
Project Area	SCIP Project Areas Fixed	Camas														
Transportation Project Areas Fixed	Project Polys	Washougal														
Sanitary Sewer Project Areas Fixed	Vancouver City Limits															
Surface Water Project Areas Fixed	Clark County															
Water Project Areas Fixed	Battle Ground															
	<h3>VICINITY MAP</h3>	<h3>FUNDING & SCHEDULE</h3> <p>Budget / Proj. #: PRJ100384</p> <p>Budget / Proj. Task #:</p> <p>Total Project Cost: \$1,900,000.00</p> <p>*Start of Const. (Year): 2022</p>														

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



20 YEAR CAPITAL IMPROVEMENT PROGRAM FOR SURFACE WATER MANAGEMENT 2022-2041

All costs are in 2021 dollars

Mar. 18, 2022

Table with columns: PROJECT NAME, Project, CIP#, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, Totals

PROJECT NAME	Project	CIP#	2022-2041																			Totals	
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039		2040
NE 98th Ave. NE 10th St to NE 16th St & NE 16th St to NE 102nd Ave	TBD								1,161,955														1,161,955
NE 92nd Ave. at 19th Cir (near Meadowbrook Marsh Park Entrance)	TBD												272,350										272,350
NE Cranbrook Dr. NE Burton Rd to NE 21st St	TBD										644,700												644,700
NE 21st St & NE 20th St. NE 93rd Ct to NE 96th Ct & NE 94th Ct to NE 96th Ct	TBD																745,600						745,600
NE 105th Ave. NE 25th St to NE 22nd St. continue on NE 102nd Ave to NE 24th St	TBD																	751,100					751,100
																							0
Columbia Slope Study (Herrera 2022):																							0
Hwy Regional Facility at Hwy 14 at SE Riverside Dr.	TBD									1,500,000													1,500,000
Regional Facility at Wintler Community Park (B)	TBD										500,000												500,000
Hwy Regional Facility at SE 78th Ave and Hwy 14	TBD											1,000,000											1,000,000
Regional Facility at WyEast School Community Park	TBD												750,000										750,000
Bioretention at N Blandford Dr	TBD													2,250,000									2,250,000
Green Street at SE McGillivray Blvd and SE Bella Vista Rd	TBD														1,000,000								1,000,000
Regional Facility at Wildwood Park	TBD														500,000								500,000
Treatment Vault Retrofit at SE 164th Ave. Shari's Restaurant	TBD															1,250,000							1,250,000
Regional Facility at SE 164th Ave and SE Cascade Park Dr	TBD																1,000,000						1,000,000
Regional Facility near Biddlewood Park	TBD																		750,000				750,000
Green Streets on SE Talton Ave and Cascade Park Dr.	TBD																			1,750,000			1,750,000
WSDOT Biofiltration Swale Retrofit at Cascade Park Dr.	TBD																				2,500,000		2,500,000
																							0
BBC WQ Study TMDL/SMAP Projects Currently Identified (InHouse Ongoing)									1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	24,000,000
NE 121st Ave north (NO18031)	TBD																						0
NE 121st Ave south (NO18027)	TBD																						0
NE 49th St Oakbrook Apts (NO17974)	TBD																						0
NE 51st Cir E of 112th Ave (NO17967)	TBD																						0
NE 112th Ave north side BBC (NO17935)	TBD																						0
NE 112th Ave south side BBC (NO17912)	TBD																						0
NE 44th St at NE 104th Ave (NO16902)	TBD																						0
NE 109th Ave from Ivy lined ditch (NO15869)	TBD																						0
NE 109th Ave from south side (NO15917)	TBD																						0
NE 101st Ct/NE 35th (Site 163649000) Confluence	TBD																						0
NE 112th Ave/NE 26th St (NO15005)	TBD																						0
DF020 NE 98th Ave (south of Burton) (NO24790)	TBD																						0
NE 21st St east of NE 96th Ct (NO30192)	TBD																						0
NE 92nd Ave/NE 19th Cir (NO13929)	TBD																						0
NE Bridgecreek Ave/ NE 20th St (NO27373)	TBD																						0
NE 65th Ave/E 18th St (NO04963)	TBD																						0
Devine Road/E 18th St (NO04895)	TBD																						0
Stapleton Rd into swale (NO04906)	TBD																						0
NE Fourth Plain Brandt Road (NO01683)	TBD																						0
NE Fourth Plain Grand to Aljona (NO01682)	TBD																						0
Linda Lane Vault (NO06184)	TBD																						0
Drummond Ave/E. 33rd St (NO24308)	TBD																						0
Arnold Park/ NE St John's/St James (NO15529)	TBD																						0
NE 41st Circle (historic site BBC3-4) (NO06483)	TBD																						0
NE 14th Ave/NE 43rd St (NO15940)	TBD																						0
																							0
Future Studies and Projects/Programs for Further Analysis and Prioritization:																							0
BBC Orchards Study (Herrera 2016)	TBD																						0
BBC Outfalls Study (Parametrix 2022) Future TMDL/SMAP Projects	TBD																						0
UIC Study (Consultant TBD 2021 - 2023) including Decommissioning	TBD																						0
Peterson Channel Basin - 112th & Ivy Ditch	TBD																						0
Fruit Valley Road Study/Project	TBD																						0
East Mill Plain CTC Projects	TBD																						0
E 164th Median Swale Retrofits	TBD																						0
Greenway & Creek Restoration Program	TBD																						0
Arnold Park Study	TBD																						0
Central 4th Pln Basin Study	TBD																						0
51st Sump Area Study & Property	TBD																						0
Downtown Capacity & Condition Assessment (CH Study 90's)	TBD																						0
Urban Forestry & Canopy Desert Basin TMDL Coordination	TBD																						0
DePave Program	TBD																						0
Property Acquisition Program	TBD																						0
Swale Retrofit Program (Sadd&Clark)	TBD																						0
Pump Station Study and Retrofits	TBD																						0
CCTV (metal pipes. outfalls. culverts)	TBD																						0
Outfall Assessment & Replacement/Repair Program (ie East I-5 to Columbia)	TBD																						0
Sweepers and Vactors - Grants	TBD																						0
																							0
NEW PROJECTS																							0
Stormwater Pollution Enhanced Source Control	PRJ100586		9,711	190,289																			190,289
Topper's Landing Outfall Repair	PRJ100514		166,292																				0
Talton Storm Sewer Extension	PRJ100403		75,854																				0
Downtown IDDE Study	PRJ100404		238	1																			1
Ecology SFAP Grants \$5 million/year max	TBD					5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	90,000,000
CIP Total for Planned Projects			1,300,027	6,961,974	8,675,897	9,544,117	9,408,063	9,367,359	9,449,608	9,173,554	9,358,143	9,257,874	9,691,849	9,218,617	9,708,330	9,705,237	8,959,790	9,459,988	9,220,131	9,296,372	9,228,459	9,983,244	183,151,850

*Project timing is dependent upon the timing of the coordinating project
**2021 Amounts include revised delivery amount or actual spent in 2021 (as of October), whichever is higher
Shading indicates not included in 6-year plan, but money expected to be spent in 2021



For additional information see:
www.cityofvancouver.us/utilitycip



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Vancouver Public Works
360-487-7130 | TTY: 360-487-8602