



**UTILITY ADVISORY COMMITTEE REGULAR MEETING
THURSDAY, APRIL 18, 2024**

COUNCIL CHAMBERS in CITY HALL
280 MADISON AVENUE NORTH
BAINBRIDGE ISLAND, WA

AND

REMOTE MEETING ON ZOOM
PLEASE CLICK THE LINK BELOW TO JOIN THE WEBINAR:

<https://bainbridgewa.zoom.us/j/85322271874>

OR TELEPHONE: 1 253 205 0468
WEBINAR ID: 853 2227 1874

AGENDA

1. CALL TO ORDER / ROLL CALL / PLEDGE OF ALLEGIANCE – 5:30 PM
2. APPROVAL OF AGENDA / CONFLICT OF INTEREST DISCLOSURE
3. PUBLIC COMMENT
4. REGULAR BUSINESS
 - A. Approve Minutes from 1/18/24 and 3/21/24 – 5 min
 - B. Discuss progress / next steps on Comprehensive Plan Utility Element – 60 min
 1. Review Potable Water and Sewer Sections
 - C. Update on Groundwater Management Plan – 10 min
 - D. Update on Water System Business Plan – 10 min
 - E. Update on 2024-28 Utility Capital Improvement Plan – 15 min
5. ADJOURNMENT



Meetings are wheelchair accessible. Assisted listening devices are available in Council Chambers. If you require additional ADA accommodations, please contact the City Clerk's Office at 206-780-8604 or cityclerk@bainbridgewa.gov by noon on the day preceding the meeting.

Utility Advisory Committee Minutes

January 18, 2024

Call to Order

Meeting called to order at 5:30 PM

Committee Participants: Wanda, Andy Maron, Ted Jones, Charles Averill in person; Martin Pastucha and Svend Brandt-Erichsen via Zoom

Also Present: Jon Quitslund; Chris Wierzbicki; Paul Niland, City Engineer

Disclosure of Conflicts of Interest: None

Stormwater – Developing Source Control Program

State law requires City to develop and implement “source control” programs for stormwater and wastewater. The City has begun this process. This portion of the meeting provided the Committee with the anticipated course for development of this program and a general overview of the expected approach and program elements.

Next steps will be development of a “source control” ordinance and creation of new full-time position to manage the stormwater source control program.

Stormwater source control is the prevention and control of polluted runoff from exterior, developed areas that drain to the City’s stormwater system. Cities have been required to develop source control programs as a condition of the most recent municipal stormwater NPDES permit.

Source control efforts focus on areas like trash enclosures/dumpster areas, parking lot and paved areas, vehicle washing practices, and exterior tool or equipment cleaning practices.

The types of efforts that may be required to achieve source control include : spill plans, kits and training; good housekeeping and waste handling; parking lot sweeping; covered trash and dumpster areas; utility sinks and grease interceptors.

The City is networking with other jurisdictions and organizations on best practices for source control. Minimum performance measures are identified by the state source control program: Enforcement; Inventory; Routine site inspections; Staff training.

June 30, 2024, is target date for having ordinances adopted and the program underway.

The City has completed an inventory of potentially affected sites, identifying 133 building/developed sites, 100 food and drink establishments.

The City’s inspection program must be in place by June 2024. The City is planning for an annual inspection rate of 20% of sites per year, as well as inspection of 100% of sites with complaints.

Wastewater Source Control Program

The City also is developing a pretreatment program for sewer wastewater discharges. The objective of this program will be to reduce pollutants, thereby reducing stress on the wastewater treatment plan.

Source control will require reduction of free oil and grease (FOG) from commercial facilities. Structural solutions for reducing FOG include installation of grease traps and interceptors. The City's adoption of FOG limits could result in requirements for some private establishments to pre-treat their wastewater discharges.

This program also is in the development stage. The City is developing a pre-treatment ordinance, which will establish local effluent limits. It also is developing educational materials. Annual inspections for compliance and enforcement are anticipated. The City also will develop a sampling plan, including sampling manholes, to identify high strength users and pre-treatment options.

Projected schedule:

- March – develop and adopt ordinances
- April – authorize new, full FTE for this program
- June begin education outreach
- Fall begin inspections and sampling plan for wastewater

Review of UAC 2020 Recommendations regarding Small Water Systems

In response to a prior request from Committee members, there was a review of the recommendations the Committee made in 2020 regarding the City's relationship with the many small water systems that serve Island residents.

This review served as a refresher as the Committee begins its review of elements of the Comprehensive Plan update, and also to inform the Committee's input as the City works on plans for its relationship with the water utilities and smaller water systems that serve the community.

Public Works Update

Chris Wierzbicki provided the Committee with an update on the status of several projects:

- Winslow water tank construction work has started
- Offsite facilities related to the water tank are expected to go out to bid in March
- In support of the Sewer Analysis for the Comprehensive Plan update, a consultant has been retained to assist with analysis of collection capacity
- Negotiation of an MOU is continuing with Puget Sound Energy. The City has received minor language changes from PSE.
- Discussions have been initiated with Bainbridge Disposal

Meeting Adjourned

DRAFT
UTILITY ADVISORY COMMITTEE MINUTES
March 21 2024

Call to Order

Meeting called to order at 5:30 pm

Members Present: Wanda Schulze, Andy Maron, Charlie Averill, Svend Brandt-Erichsen, Ted Jones, Sheina Hughes, Martin Pastucha, John Quitsland

Also Present: Chris Wierzbicki (Public Works Director), Blair King (City Manager), Adam???

Disclosure of Conflicts of Interest: None

There were no meeting minutes to approve.

Update on Solid Waste Objectives

The City is beginning a dialogue with Bainbridge Disposal with the intent of entering into a contract with them for solid waste services including garbage, recycling and organic (yard and kitchen) waste. Having such a contract would give the City more control over how waste is collected and managed to ensure it is consistent with City policies and goals. The City Manager presented a set of 11 objectives that could be addressed in a contract (included in the meeting agenda packet). Primary objectives include:

- Increase recycling and composting
- Improve service for hard to service areas
- Improve recycling and composting at multi-family housing

UAC members had various questions and minor comments but no changes to the set of objectives were requested. The City Manager expects to present these objectives for Council approval in April.

Comprehensive Plan Update

As we prepare to develop the Utilities element of the new Comp Plan, Ted suggested a revised approach from what we had previously discussed. Instead of each committee member taking individual sections, he suggested that we go through each section as a group. This would allow new committee members to get up to speed and we could all benefit from each others insights. After a brief discussion it was agreed that this would be a better way to proceed. We plan to take the next two or three meetings to go over the sections. At the April meeting, we will discuss the potable water and sanitary sewer sections.

Groundwater Management Plan

Chris provided an update on the Groundwater Management Plan. The project consists of three phases: gather data/ run model scenarios/ develop policies. We have completed phase 1 and are starting on phase 2. Chris expects to get parameters for modeling scenarios approved at an April City Council meeting.

Stormwater Source Control and Sewage Pretreatment

Chris presented two draft ordinances - one for stormwater source control and the other for sewage pretreatment. The ordinances are based on models from Department of Ecology. These are required by the latest NPDES permit and the Sewage Pretreatment ordinance will help preserve the life of the Waste Water Treatment Plant. In general, the committee liked the

phasing in both ordinances where the first two years are primarily inspections and education and then enforcement begins in year 3. Some changes were recommended in the Applicability section of the Source Control Ordinance to specify that these apply to commercial/industrial land uses, instead of the current more general language.

As the sampling gets underway for the pretreatment program, we are expecting some issues related to pH and BOD. BOD is already a problem at the WWTP. Some businesses on the island may have to install treatment equipment to comply with these rules. The committee supported the language in the draft ordinance that allows existing businesses to apply for a 50% rebate (up to a limit) for treatment equipment. Since the equipment benefits the City by protecting the WWTP, rebates or other cost sharing options seem like a fair approach.

The pretreatment ordinance as drafted would apply to businesses across the island, even those that discharge to a KPUD WWTP. But would not apply to businesses that discharge to septic systems such as at Day Road. The committee observed that it is not entirely clear whether responsibility for compliance rests with tenants or property owners. A grace period is provided for new “owners/operators” to come into compliance.

The committee had a discussion of how this program is funded and suggested that we may need to revisit stormwater fees. One FTE is being requested to staff both of these new programs.

The committee will have another chance to comment on these two ordinances at the April meeting and then Chris would like to take it to the Council in May.

PSE Partnership Agreement

PSE Partnership Agreement - City executive team will meet with PSE in early April.

Anticipated Topics for Next Month

The April meeting will focus on the Committee review of the Potable water and Sewer sections of the Utilities Element of the comp plan. A look ahead on the 2024 utility capital plan will also be presented. It was the consensus of the committee that the next meetings should be scheduled for two hours from 5:30- 7:30pm.

UTILITIES ELEMENT

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UTILITIES INTRODUCTION

The *Growth Management Act* requires all comprehensive plans to include a utilities element consisting of the general location, proposed location, and capacity of all existing and proposed utilities, including but not limited to electrical lines, telecommunication lines, drinking water and sewer lines (RCW 36.70A.070(4)). On Bainbridge Island, these utilities are provided by a combination of the City of Bainbridge Island, State regulated utilities, federally licensed communications companies and a municipally franchised cable television company.

The City of Bainbridge Island provides some sewer and water services. Other public and privately held water and sewer purveyors on the Island also provide services to residents of the City. Private households provide for a large percentage of the City's utility infrastructure with individual and on-site wells and septic systems.

A private corporation based on the Island provides solid waste disposal and recycling services to residents and businesses and is regulated by the Washington Utilities and Transportation Commission (WUTC).

Regional telecommunication and electric utilities serve the City of Bainbridge Island. The electric and telecommunication utilities are regulated by the WUTC.

UTILITIES VISION 2036

The City of Bainbridge Island has ensured that all residents have reliable electric power, telecommunications services to meet their needs, potable water, solid waste and recycling services, and stormwater facilities that prevent flooding and erosion, maximize infiltration and eliminate pollutants before the water enters Puget Sound.

Coordinated water and sewer systems serve the more densely populated areas. Some private homes rely on septic systems, but most are served by water purveyors that cover broad areas of the Island. The City, working with other water purveyors, coordinates a monitoring program to ensure that the quantity and quality of potable water are sustained at safe levels for present and future generations.

Water use is managed to encourage conservation and limit consumption. Sewer systems provide for the reuse of treated water to recharge aquifers, for irrigation and to reduce outflow into Puget Sound. Tertiary treatment has been implemented to improve water quality in Puget Sound.

Materials in the waste stream continue to decline, while composting and recycling are standard practices on the Island. A Bainbridge Island moderate-risk waste facility encourages the proper disposal of materials such as paints, solvents and cleaners. A state-of-the-art telecommunication network has increased cooperation among neighbors and across the Island; it has facilitated ride-sharing and reduced dependence on private automobiles for commuting and daily errands. Alternate ecological and innovative energy sources now supply much of the Island's electricity, and geo-thermal heating systems have proven their effectiveness in reducing demand for electric power.

GOALS & POLICIES

GOAL U-1

Ensure that reliable utility services are available to all Bainbridge Island residents.

GOAL U-2

Ensure that the utility services are comparable in terms of cost, quality, and technology to services available in similar jurisdictions in the Puget Sound region.

GOAL U-3

Ensure that utility services are adequate to meet current demands, and that utility providers plan for future demands.

GOAL U-4

Ensure that the provision of utility services is environmentally responsible and sustainable, and encourage utility services that are carbon neutral and do not contribute to climate change.

GOAL U-5

Ensure that new or major renovations to existing utility facilities are designed to minimize adverse impacts on residents and the environment.

GOAL U-6

Ensure that permits and approvals for utility facilities are processed in a fair, timely manner and in accord with development regulations and this Plan.

GOAL U-7

Ensure that all utility providers give timely public notice and solicit community input on the siting of proposed facilities and on any other substantive projects before seeking City approval.

GOAL U-8

Cooperate with other jurisdictions and utility providers in planning and implementing utility facility additions, improvements, maintenance, and emergency response, so that such activities are coordinated for maximum efficiency and public benefit.

GOAL U-9

Ensure that sufficient city resources are provided to implement the above goals by adopting systems and processes for meaningful and timely review of utility services, and by assigning to the Utility Advisory Committee (UAC) or other city organization the responsibility for advising the City Council on matters regarding all utility services on Bainbridge Island.

POTABLE WATER

Currently, potable water is provided to citizens of Bainbridge Island by the City, Kitsap County Public Utility District, private for-profit water companies, not-for-profit companies or homeowner associations, and private wells. All water providers must comply with a variety of federal and state laws and regulations.

GOAL U-10

Ensure that city-managed and to the extent possible, non-city managed utility services, are sufficient, cost effective, reliable, and that safe water utility service is provided.

GOAL U-11

Require utilities to operate in a manner that preserves and protects the water resources of the Island.

Policy U 11.1

Map public water systems service areas and evaluate modifications to their system boundaries based on maintaining sufficient and sustainable capacity to meet the present and future needs of the service area.

Policy U 11.2

As an approved Satellite System Management Area (SMA), the City may elect to provide water system management services to other utility providers.

Policy U 11.3

Encourage new development in previously unserved water service areas to connect to existing public water systems. The City, at its discretion, may require new water systems be dedicated to the City.

Policy U 11.4

Require engineering specifications for new public water systems and expansions or improvements to existing public water systems that are to be located within the City's rights-of-way to meet standards set forth by the City.

Policy U 11.5

Adopt standards that differentiate between urban and non-urban density fire flow requirements. A differential policy is needed to promote cost effective water system upgrades by the many small water systems on the Island.

Policy U 11.6

Encourage and support water utilities to enter into cooperative activities, such as jointly managed operations, shared storage, and construction of interties, to manage water resources and systems more efficiently, economically, and safely.

Policy U 11.7

Encourage and facilitate consolidation of water systems, with particular emphasis on mergers of contiguous and small systems, to manage water resources and systems more efficiently, economically, and safely.

Policy U 11.8

Conduct a study of consolidation of water systems owned by the City and Kitsap Public Utility District. Pursue long-term consolidation of larger water systems.

Policy U 11.9

Implement conservation measures through education and regulation with emphasis on limiting and reducing demand.

PUBLIC SEWER

Currently, there are two public sewer systems on Bainbridge Island. One, owned by the City of Bainbridge Island, serves the Winslow area and the Rockaway Beach, Pleasant Beach, and Lynwood areas ("the Southend System.") The other, owned by Kitsap County Sewer District #7, serves the Fort Ward area.

The service area for the Winslow Public Sewer System is designated in the City's General Sewer Plan. Treatment for this part of the system occurs at the Winslow Wastewater Treatment Plant. The sewer service area for the Southend System is also designated in the City's General Sewer Plan. Treatment for this system occurs at the Kitsap County Sewer District #7 treatment plant pursuant to an interlocal agreement.

GOAL U-12

Ensure that adequate, cost effective, and reliable sewer service is provided to those areas of Bainbridge Island served by public sewer systems and designated in the General Sewer Plan for future public sewers.

Policy U 12.1

Emergency service or other minor modifications to sewer service areas may be allowed with approval by the City Council via resolution so long as there is sufficient sewer facility capacity, and, with regard to the Southend System, sewage quality meets the standard outlined in the interlocal agreement with Kitsap County Sewer District #7.

Policy U 12.2

Within public sewer system service areas, new construction should provide for eventual connection to public sewer systems.

Policy U 12.3

Sewer connections will not be required where septic systems are fully functional and maintained, except as provided by law.

Policy U 12.4

In planning and establishing a service area for a new public sewer facility, or major expansion of an existing public sewer facility, service area boundaries will be evaluated taking the following into consideration:

- a. Areas that have an environmental need for sewer due to 1) a group of documented failing septic systems; or 2) proximity to sensitive bodies of water that are unsuitable for on-site septic systems according to the Kitsap County Health District.
- b. Areas used or planned for development that serve a public need, such as a public school.
- c. Areas designated for commercial and mixed use.

- d. Areas designated for residential use at densities of four units to the acre (R4) or greater.
- e. Areas planned for an increase in density through a special planning area process.

Policy U 12.5

When utilities plan, renovate, or build treatment facilities, require utilities to consider constructing facilities that facilitate the re-use of treated wastewater for irrigation, recharge, and other non-potable uses. Require that facilities be consistent with health and safety considerations and consider financial impacts to ratepayers and taxpayers.

Policy U 12.6

Improve the quality and reduce the quantity of effluent discharged to Puget Sound.

Policy U 12.7

Investigate the development of tertiary sewer and sewer greywater systems.

Policy U 12.8

Study cooperation (such as shared operations) or consolidation of sewer systems owned by the City and Kitsap County Sewer District #7.

STORM AND SURFACE WATER

The City of Bainbridge Island operates a storm and surface water utility for the purposes stated in BIMC Section 13.24.010.

GOAL U-13

Manage stormwater runoff to protect life, property and habitat from flooding and erosion; to channel runoff to minimize impacts to daily activities; to protect the quality of groundwater, surface water, and the waters of Puget Sound; and to provide recharge of groundwater where appropriate.

Policy U 13.1

Maintain a comprehensive storm drainage plan that identifies problems, proposes solutions, provides a strategy for implementation and funding, and establishes design and development guidelines.

Policy U 13.2

Require new development to provide both on-site and off-site improvements necessary to avoid adverse water quality and quantity impacts.

Policy U 13.3

Use *low impact development* standards wherein infiltration of stormwater is preferred over surface discharge to downstream systems, so as to encourage the return of uncontaminated precipitation to the soil at natural rates near where it falls through the use of detention ponds, grassy swales, and infiltration facilities.

Policy U 13.4

Design and construct stormwater systems that provide for removal of pollutants and sediment through bio-filtration or other means.

Policy U 13.5

Minimize disruption and/or degradation of natural drainage systems, minimize impervious areas by restricting site coverage, and encourage site permeability by retaining natural vegetation and buffers, and specifying use of permeable materials.

Policy U 13.6

Manage surface water in a manner which prevents pollutants from industrial, commercial, and agricultural land uses from entering ground or surface waters.

Policy U 13.7

Consider a program of retrofitting existing roads with water quality and quantity stormwater system improvements in order to minimize pollution from runoff from roadways to natural drainage systems and the waters of Puget Sound.

ELECTRICAL

The City is currently served by Puget Sound Energy (PSE), which provides electricity generation sources, transmission, distribution and maintenance of electrical facilities throughout the island. PSE is regulated by the Washington Utilities and Transportation Commission (WUTC.) It is the commission's responsibility to ensure regulated companies provide safe and reliable service to customers at reasonable rates, while allowing them the opportunity to earn a fair profit.

GOAL U-14

Ensure adequate, cost effective, reliable, and environmentally responsible electric service to the citizens of Bainbridge Island.

Policy U 14.1

Develop a plan together with the electric service provider to undertake energy efficiency improvements and other alterations of electric utility facilities to provide capacity for future growth.

Policy U 14.2

Encourage the conservation of electrical energy, especially during periods of peak usage, and encourage energy saving building code strategies, local renewable energy, and other cost effective approaches to meeting the island's energy needs, including distributed energy systems.

Policy U 14.3

Encourage the electric service provider to improve reliability, with particular attention to adding transmission redundancy and mitigating impacts on service from storms or other natural events.

Policy U 14.4

Encourage undergrounding new and existing electric transmission and distribution power lines, and develop a long-term strategy for future undergrounding, to include maximizing opportunities with new construction, and prioritizing the work that affects the greatest number of *households* and businesses.

Policy U 14.5

Encourage the electric service provider and electricity users to use carbon neutral electricity generation, local electricity generation, and innovative technologies such as solar power that are reliable, cost effective, preserve resources, provide minimal environmental impact, and do not contribute to global warming.

Policy U 14.6

Periodically undertake comparative evaluations of electric service reliability, cost, and environmental impact, customer service and customer support and evaluate opportunities to provide improved and less costly electrical service from alternative service providers.

Policy U 14.7

New taxpayer-funded buildings shall use carbon-neutral energy for heating, cooling, and operational use to the maximum extent practical within site specific and existing technology limitations.

Policy U 14.8

Encourage new development to integrate environmentally responsible and innovative energy systems.

Policy U 14.9

Explore ways to obtain 100% green electricity including investing in new renewable energy projects.

SOLID WASTE DISPOSAL, RECYCLING AND COMPOSTING

Currently, Bainbridge Disposal, Inc., a private corporation based on the Island, is the exclusive provider of solid waste disposal and recycling services to City. Bainbridge Disposal is regulated by the Washington Utilities and Transportation Commission (WUTC), which is charged with ensuring the utility provides reliable, safe and economical service.

GOAL U-15

Ensure adequate, cost effective, reliable, and environmentally responsible solid waste, recycling and composting service to the citizens of Bainbridge Island.

Policy U 15.1

Seek a method to provide on-island collection site for moderate risk waste or household hazardous waste including oil based paints, stains, adhesives, aerosols, paint thinner, corrosive cleaners, yard chemicals, and pool/spa chemicals and a means for transferring these substances in a timely manner to the Kitsap County site.

Policy U 15.2

Support non-governmental organizations that provide outreach and education to citizens to ensure that the populace is informed about the latest waste reduction, composting, recycling and hazardous waste practices.

Policy U 15.3

In addition to WUTC regulation, the City should perform periodic reviews to ensure that Bainbridge Disposal is providing safe, reliable, cost effective and responsive solid waste, compost and recycling collection. Evaluate opportunities to provide improved and cost effective services from alternative providers.

Policy U 15.4

Coordinate with Bainbridge Disposal and the County to improve access to updated information on solid waste, recycling and composting collection and disposal services. Increase visibility and outreach for special events for hard-to-recycle materials such as hazardous waste or polystyrene foam.

Policy U 15.5

Consider methods to reduce the amount of solid waste disposed, e.g. material bans, composting or compaction, or by the conversion of solid waste to energy, e.g. using a biodigester.

TELECOMMUNICATION

Telecommunication is the technology of communication at a distance by electronic transmission of alphanumeric, audio, video and other data over wired and wireless delivery systems. On Bainbridge Island, telecommunication utilities provide telephone, television, and internet services.

Telephone utilities are regulated by the WUTC. The Federal Communications Commission (FCC) regulates wireless service providers.

Comcast and CenturyLink are the largest telecommunication service providers on Bainbridge Island. KPUD provides a public wi-fi service in Winslow.

GOAL U-16

Ensure adequate, cost effective, reliable, and environmentally responsible telecommunication service to the citizens of Bainbridge Island.

Policy U 16.1

Encourage shared use of facilities and the use of existing utility corridors, public rights-of-way and city owned properties.

Policy U 16.2

Require the placement of cellular and/or wireless communication facilities in a manner that minimizes the adverse impacts on adjacent and surrounding land uses.

Policy U16.3

Encourage major telecommunication utility providers to work with the City to identify potential sites for infrastructure and facility expansion to address future growth and development and meet the demands for additional utility service.

Policy U 16.4

Encourage all providers to serve all parts of the City equally.

Policy U 16.5

The City expects all providers to evaluate the capacity of their facilities regularly to ensure that new facilities are installed in a timely basis to meet new and future demand. Providers are expected to provide facilities to accommodate growth within the City.

Policy U 16.6

Pursue internet and cellular service of the highest standards for governmental and educational institutions, business and commerce and personal use.

Policy U 16.7

Require new development to have underground conduits suitable for existing and foreseeable new utilities such as cable and broadband.

Policy U 16.8

Ensure that emergency communication services are universally available to assist residents in emergencies.

Policy U 16.9

In addition to WUTC regulation, the City should perform periodic reviews to ensure that various telecommunication providers are providing safe reliable, cost effective, and responsive telecommunication services. During such reviews, the City should evaluate opportunities to obtain improved and cost effective services from alternative providers.

Policy U 16.10

Conduct a study to support the creation of an Island-wide high-speed internet service.

UTILITIES IMPLEMENTATION

To implement the goals and policies in this Element, the City must take a number of actions, including adopting or amending regulations, creating partnerships and educational programs, and staffing or other budgetary decisions. Listed following each action are several of the comprehensive plan policies that support that action.

HIGH PRIORITY ACTIONS

U Action #1 Develop a process for periodic review of Island utility services.

Goal U-9 Ensure that sufficient city resources are provided to implement the above goals by adopting systems and processes for meaningful and timely review of utility services, and by assigning to the Utility Advisory Committee (UAC) or other city organization the responsibility for advising the City Council on matters regarding all utility services on Bainbridge Island.

U Action #2 Support the development of sewer tertiary treatment and sewer greywater systems.

Policy U 12.6

Improve the quality and reduce the quantity of effluent discharged to Puget Sound.

U Action #3 Facilitate cooperation among or consolidation of water systems.

Policy U 11.6

Encourage and support water utilities to enter into cooperative activities, such as jointly managed operations, shared storage, and construction of interties, to manage water resources and systems more efficiently, economically, and safely.

U Action #4 Continue the investigation of the creation of an Island-wide high-speed internet service.

Policy U 16.10

Conduct a study to support the creation of an Island-wide high-speed internet service.

MEDIUM PRIORITY ACTIONS

U Action #5 Proactively encourage, study, and facilitate consolidation of water systems to manage water resources and systems more efficiently, economically and safely.

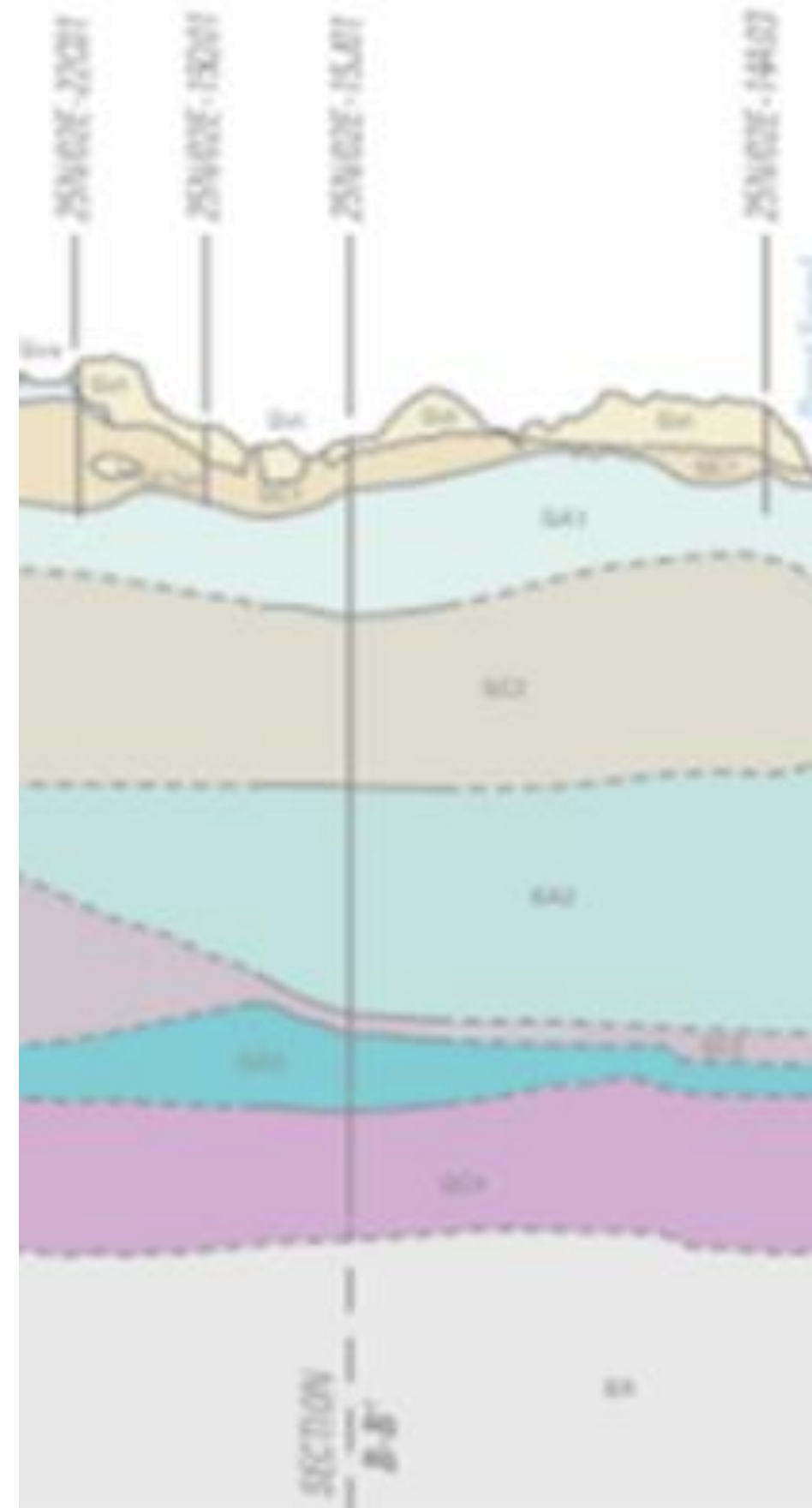
Policy U 11.7

Encourage and facilitate consolidation of water systems, with particular emphasis on mergers of contiguous and small systems, to manage water resources and systems more efficiently, economically, and safely.

Policy U 11.8

Conduct a study of consolidation of water systems owned by the City and Kitsap Public Utility District. Pursue long-term consolidation of larger water systems.

Groundwater Management Plan Update – April 23, 2024



Agenda

1. Since 3/12 Council update:
 - Held Technical Advisory Committee meeting 3/21
 - Held Sub-Committee meeting 4/8
2. Review / authorize final draft modeling scenarios
3. Next steps

Technical Advisory Committee (TAC) Meeting 3/21/24

Members include:

- Kitsap Public Health
- State Department of Ecology
- US Geological Survey
- Suquamish Tribe
- Kitsap Public Utility District

Agenda/discussion included:

- Overview of modeling scenario approach
- Primary discussion focus on re-charge scenario

Groundwater Sub-Committee Meeting 4/8/24

Agenda/discussion included:

- Overview of final draft modeling scenarios
- General agreement on modeling scenarios in this presentation
- Committee follow-up on details:
 - Population relationship to groundwater pumping
 - Clarification on basis for recharge

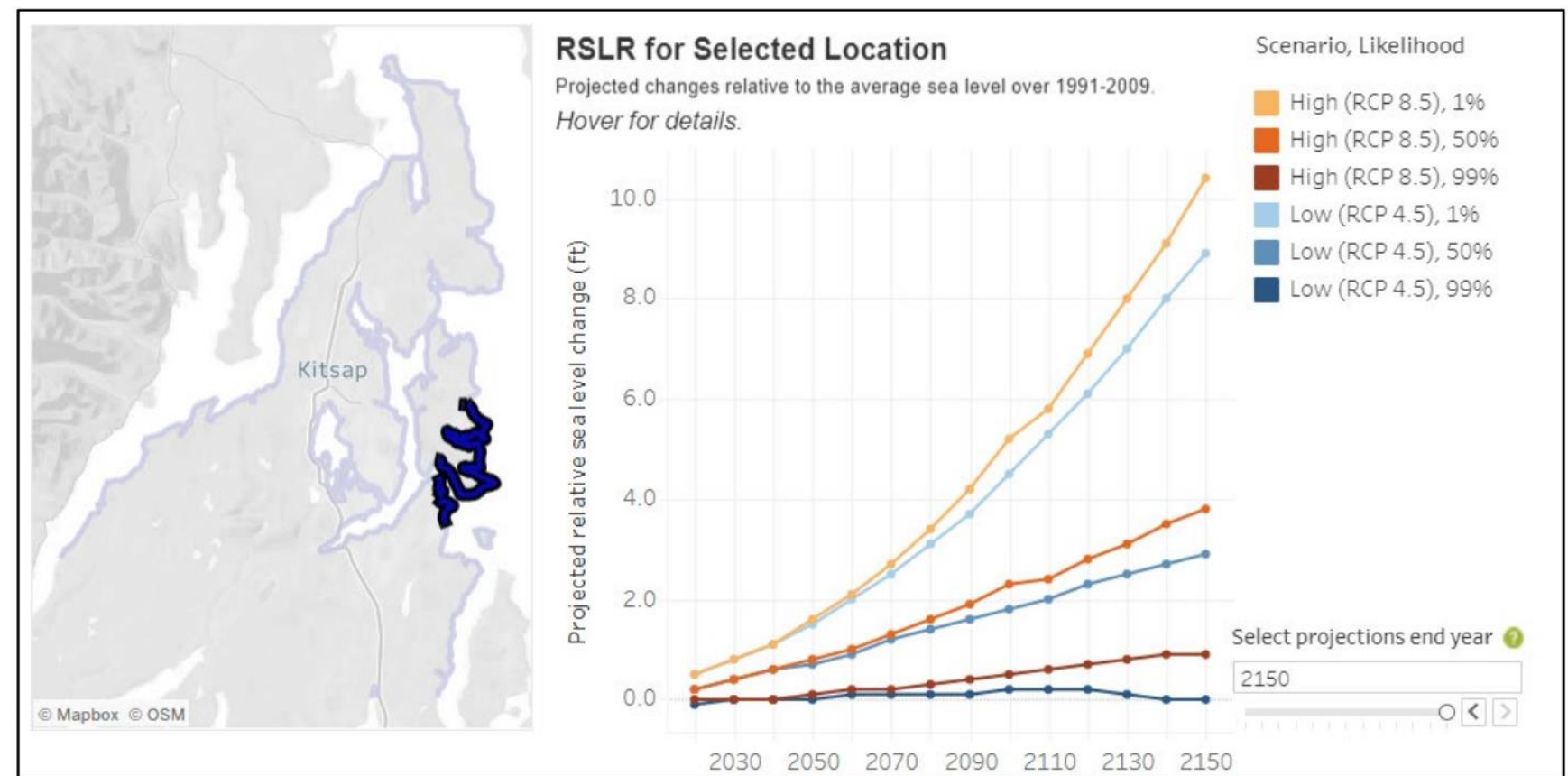
100-year Groundwater Modeling Scenario Planning - Recap

- Comparison scenario** – Compare 2024 calibrated model with 2022 model
- Baseline scenario** – Current conditions projected into the future
- Sea-Level Rise Stress Sensitivity Scenarios** – Baseline + low/high sea-level rise
- Recharge Stress Sensitivity Scenarios** – Baseline + low/high recharge
- Pumping Stress Sensitivity Scenarios** – Baseline + low/high population growth
- Prediction Scenarios** – Combination of Baseline + stresses (basis for planning)

100-year Groundwater Modeling Scenario Planning

Sea-Level Rise Stress Sensitivity Scenarios

- Baseline + low sea level rise (2.8 ft in 100 yrs)
- Baseline + high sea level rise (6.9 ft in 100 yrs)



Projected Sea Level Rise near Bainbridge Island associated with various Emission Scenarios

100-year Groundwater Modeling Scenario Planning

Recharge Stress Sensitivity Scenarios

Approach

- Baseline +15% recharge (low stress)
- Baseline -15% recharge (high stress)

Notes

- Some debate at TAC meeting regarding approach and values
- Consultant team / prevailing science indicates more precipitation and recharge in future
- +/- 15% substantiated by merging of UW climate model and USGS findings

100-year Groundwater Modeling Scenario Planning

Pumping Stress Sensitivity Scenarios – Based on Population Growth

Low growth based on lowest 30-year rate:

- 100-year population = 46,380 (84%)

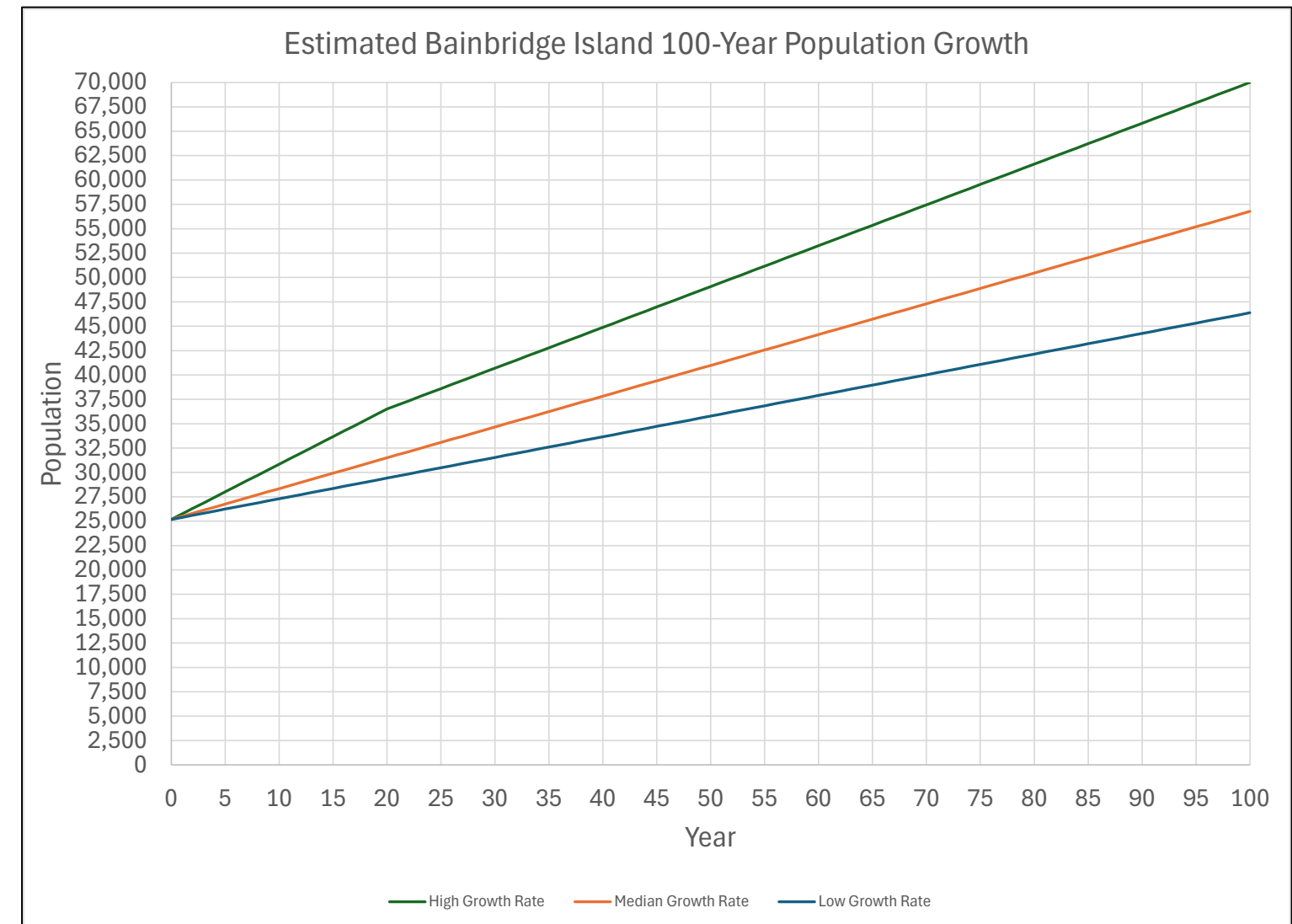
Med. growth based on highest 30-year rate:

- 100-year population = 56,780 (125%)

High growth based on 20-year Sub-Area plan projection + med. growth rate:

- 100-year population = 70,010 (178%)

Confirm population vs. pumping relationship with sub-committee



100-year Groundwater Modeling Scenario Planning

Prediction Scenarios – Combination of Baseline + stresses (basis for planning)

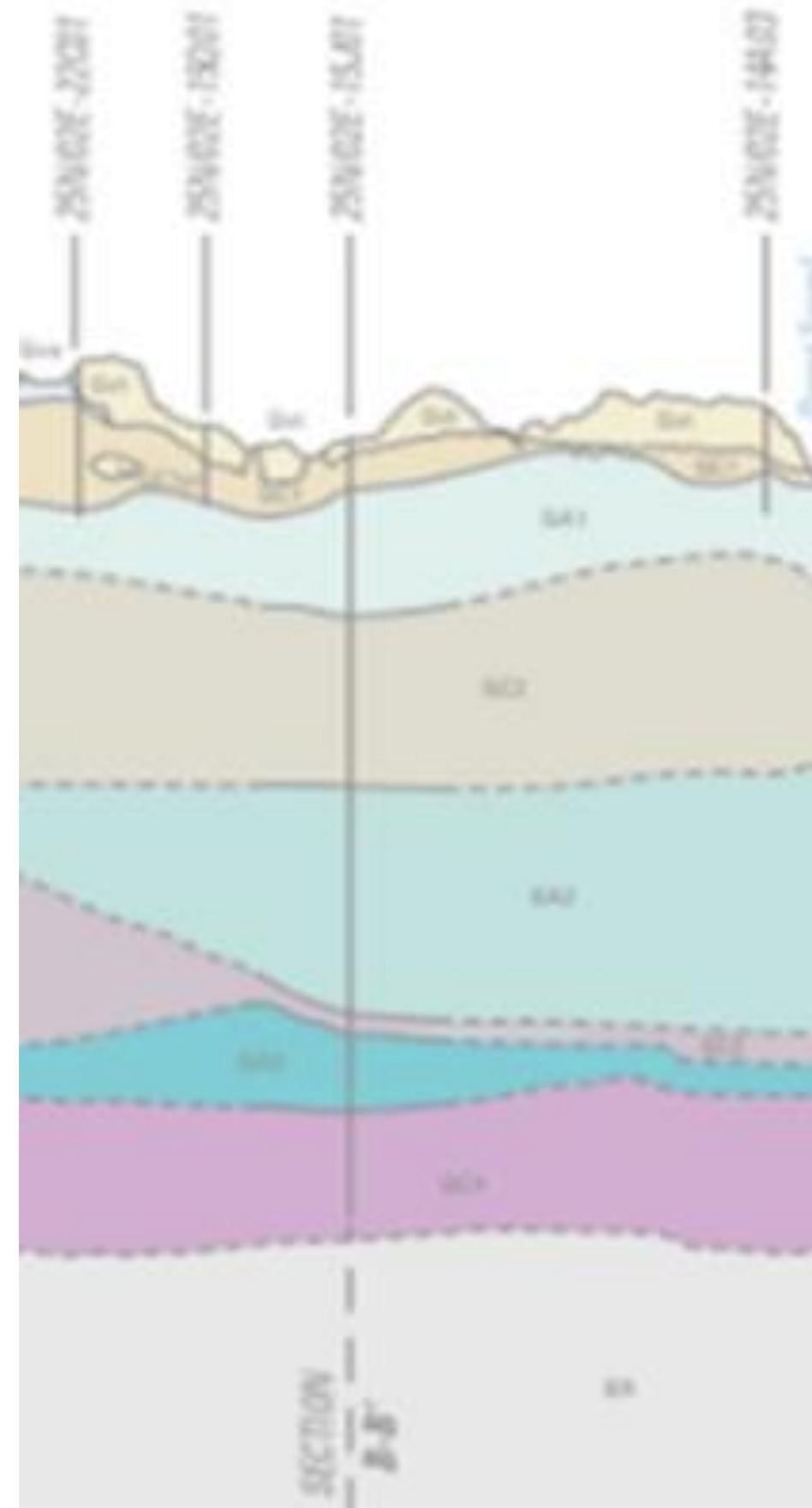
- Combination of lowest stress outcomes
- Combination of highest stress outcomes
- Combination of stresses with highest sensitivity analysis

Schedule / Next Steps

- April 23rd - City Council authorization of modeling scenarios
- Late April– Final modeling check-in with sub-committee
- May – Perform modeling
Online public engagement
- June – Report-out to sub-committee and Council on modeling results
- July-Aug – Develop management recommendations

Groundwater Management Plan Update

Q&A



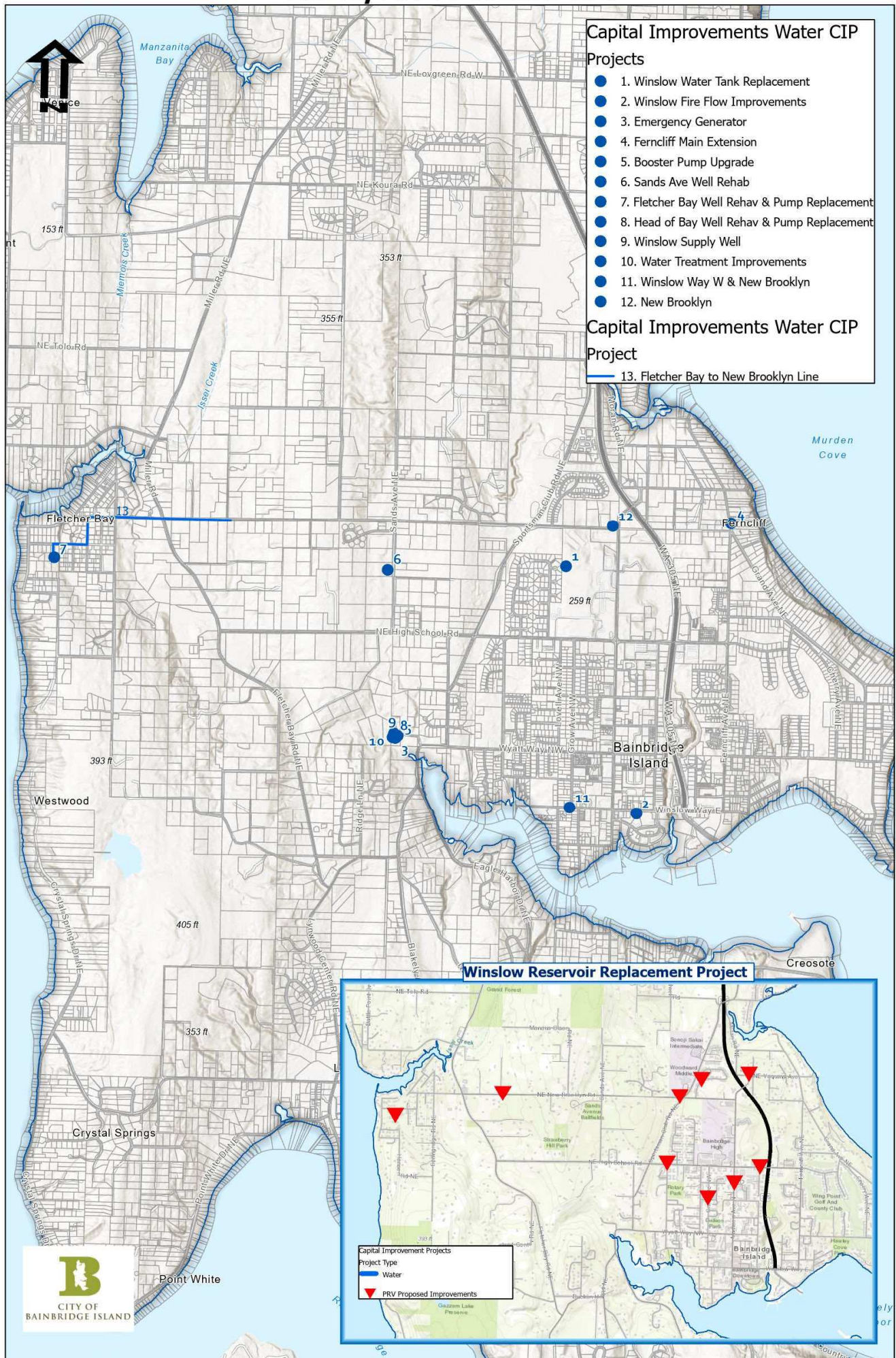
City of Bainbridge Island
Water CIP (2023-2028)
2024 Modified Budget

Project / Location	Grant Eligible	Grant Awarded	Grant Funds	Tax Supported	Wtr Comp	Swr Comp	SSWM Comp	Prior Years	2023	2024	2025	2026	2027	2028	2029-2042	Total
WATER PROJECTS - 6-YEAR CIP (1000s)																
Winslow Water Tank Replacement <i>New Brooklyn</i>	x				Y			553	1,019	10,698	9,994	-	-	-	-	22,264
Emergency Generator <i>Head of the Bay</i>					Y			-	70	155	-	-	-	-	-	225
Ferncliff Main Extension <i>Ferncliff Ave</i>	x				Y			12	1,498	-	-	-	-	-	-	1,510
Booster Pump Upgrade <i>Head of the Bay</i>					Y			-	168	-	-	-	-	-	-	168
Sands Ave Well Rehabilitation <i>Sands Ave</i>					Y			-	481	-	-	-	-	-	-	481
Fletcher Bay well Rehabilitation <i>Fletcher Bay</i>					Y			-	250	150	-	-	-	-	-	400
Head of the Bay well Rehabilitation <i>Head of the Bay</i>					Y			-	-	312	-	-	-	-	-	312
Winslow Supply Well <i>TBD</i>					Y			-	-	208	-	17	840	-	-	1,065
Water Treatment Improvements <i>Head of the Bay</i>					Y			-	-	-	-	415	1,015	-	-	1,430
Winslow Way West <i>Winslow Way</i>					Y			-	-	-	75	300	-	-	-	375
Long-Term Replacement Projects <i>TBD</i>					Y			-	-	-	-	-	-	250	11,840	12,090
TOTAL ALL WATER PROJECTS - (1000s)																
City Funding								565	3,487	11,523	10,069	732	1,855	250	11,840	40,320
Grant Totals								-	-	-	-	-	-	-	-	-
TOTAL								565	3,487	11,523	10,069	732	1,855	250	11,840	40,320

2023 BUA

2024 Mod

2023/2024 Water CIP



Project: Winslow Water Tank Replacement

Number:

00988

Location: New Brooklyn

Project Description



Description: Construct a new 2 million-gallon reservoir to replace both of the existing tanks that are located on an easement near the High School.

Benefit: A new tank built at a sufficient elevation, and to the most recent design standards, will correct several deficiencies associated with existing tanks including: significant dead storage, pressure zone deficiencies, water quality issues, and seismic deficiencies. Project updated to include fireflow and pipeline improvements in Winslow (formerly project 01095).

Schedule: 2021: Design; 2023: Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	233	169	431	631	-	-	-	-	1,464
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Long-Term Debt	320	850	10,267	9,363	-	-	-	-	20,800
Sub-total	553	1,019	10,698	9,994	-	-	-	-	22,264
FUNDING USES (1000's)									
Project Management	79	37	37	-	-	-	-	-	153
Design/construction	474	982	10,661	9,994	-	-	-	-	22,111
Sub-total	553	1,019	10,698	9,994	-	-	-	-	22,264

Estimated Impact on Future Operating Budget (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	34	606	1,200	1,470	1,500	1,479	18,258	24,547
Sub-total	-	34	606	1,200	1,470	1,500	1,479	18,258	24,547

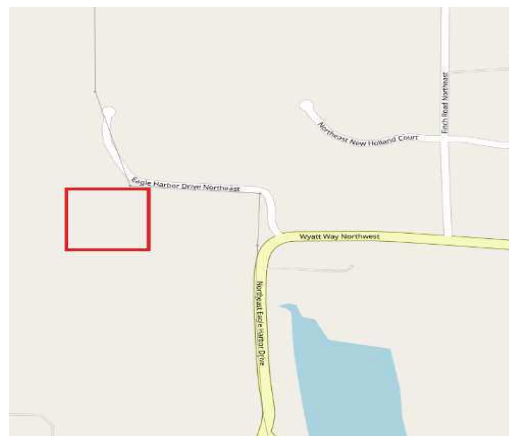
Project: Emergency Generator

Number:

01098

Location: Head of Bay

Project Description



Description: Install an emergency generator to provide a permanent, redundant power source for the well site that provides 25% of the supply for the system.

Benefit: Improves system reliability in the event of power outages.

Schedule: YR 1: Design; YR2: Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	70	155	-	-	-	-	-	225
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	70	155	-	-	-	-	-	225
FUNDING USES (1000's)									
Project Management	-	7	11	-	-	-	-	-	18
Design/construction	-	63	144	-	-	-	-	-	-
Sub-total	-	70	155	-	-	-	-	-	225

Estimated Impact on Future Operating Budget

	Prior Yrs	2023	2024	2025	2026	2027	2028	2029-2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Ferncliff Main Extension

Number:

01170

Location: Ferncliff Ave

Project Description



Description: This project will extend the existing water main in Ferncliff Avenue to serve the Ferncliff Water Association properties (18), and the City's isolated Casey Street water system properties (9). The project is subject to a low-interest loan from the State of Washington which includes 50% loan forgiveness upon completion of the project.

Benefit: The extension will extend water availability to new customers in the service area, and reduce long-term maintenance costs associated with the Casey Street water system.

Schedule: YR1: Design; YR2: Construction

Capital Funding (1000's)

	Prior							2029-	
	Yrs.	2023	2024	2025	2026	2027	2028	2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	12	1,098	-	-	-	-	-	-	1,110
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Loan	-	400	-	-	-	-	-	-	400
Sub-total	12	1,498	-	-	-	-	-	-	1,510
FUNDING USES (1000's)									
Proj. Management	-	26	-	-	-	-	-	-	26
Design/construction	12	1,472	-	-	-	-	-	-	1,484
Sub-total	12	1,498	-	-	-	-	-	-	1,510

Estimated Impact on Future Operating Budget

	Prior							2029-	
	Yrs.	2023	2024	2025	2026	2027	2028	2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	27	28	28	27	27	357	494
Sub-total	-	-	27	28	28	27	27	357	494

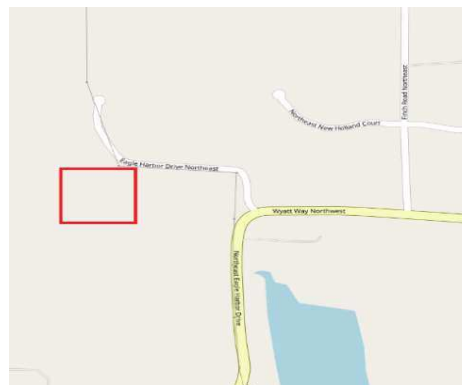
Project: Booster Pump Upgrade

Number:

01233

Location: Head of the Bay

Project Description



Description: Currently, the secondary booster pump is limited to half capacity of the primary booster pump at the Head of the Bay. The replacement of the secondary booster pump to match water rights is needed to provide redundancy and the ability to continue water operations at full capacity.

Benefit: Improve system reliability.

Schedule: YRI: Design/Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	168	-	-	-	-	-	-	168
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	168	-	-	-	-	-	-	168
FUNDING USES (1000's)									
Proj. Management	-	7	-	-	-	-	-	-	7
Design/construction	-	161	-	-	-	-	-	-	161
Sub-total	-	168	-	-	-	-	-	-	168

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Sands Ave Rehabilitation

Number:

01183

Location: Sands Ave

Project Description



Description: This project will rehabilitate one of the primary water source wells for the Winslow Water System at the Sands Avenue well site. The project includes replacement of the well pumps, which are over 30 years old, and past their design life.

Benefit: Improve water system reliability and redundancy.

Schedule: YRI: Design/Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	481	-	-	-	-	-	-	481
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	481	-	-	-	-	-	-	481
FUNDING USES (1000's)									
Proj. Management	-	-	-	-	-	-	-	-	-
Design/construction	-	481	-	-	-	-	-	-	481
Sub-total	-	481	-	-	-	-	-	-	481

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Fletcher Bay well rehabilitation and pump replacement

Number:

01244

Location: Fletcher Bay

Project Description



Description: This project will rehabilitate one of the primary water source wells for the Winslow Water System at the Fletcher Bay well site. The project includes replacement of the well pumps, which are over 30 years old, and past their design life.

Benefit: Improve water system reliability and redundancy.

Schedule: YRI: Design/Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	250	150	-	-	-	-	-	400
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	250	150	-	-	-	-	-	400
FUNDING USES (1000's)									
Proj. Management	-	12	6	-	-	-	-	-	18
Design/construction	-	238	144	-	-	-	-	-	382
Sub-total	-	250	150	-	-	-	-	-	400

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

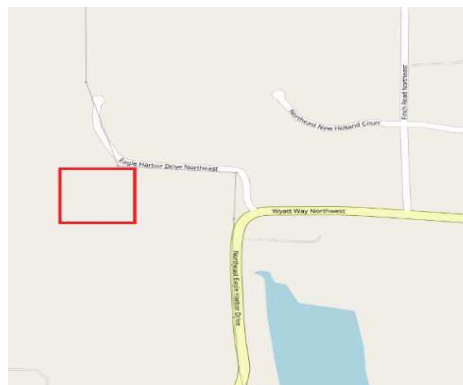
Project: Head of the Bay well rehabilitation and pump replacement

Number:

01247

Location: Head of the Bay

Project Description



Description: This project will rehabilitate one of the primary water source wells for the Winslow Water System at the Head of the Bay well site. The project includes replacement of the well pumps, which are over 30 years old, and past their design life.

Benefit: Improve water system reliability and redundancy.

Schedule: YRI: Design/Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	312	-	-	-	-	-	312
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	-	312	-	-	-	-	-	312
FUNDING USES (1000's)									
Proj. Management	-	-	12	-	-	-	-	-	12
Design/construction	-	-	300	-	-	-	-	-	300
Sub-total	-	-	312	-	-	-	-	-	312

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Winslow Supply Well

Number:

01234

Location: TBD

Project Description

Description: As addressed in the City's Water System Plan, a new supply well at the Head of the Bay or the Sands Well site is planned to add redundancy to the City's water supply system. The site location will be determined by further study of feasibility and availability of water rights.

Benefit:

Schedule: YR1: Planning; YR2: Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	208	-	17	840	-	-	1,065
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	-	208	-	17	840	-	-	1,065
FUNDING USES (1000's)									
Proj. Management	-	-	8	-	17	40	-	-	65
Design/construction	-	-	200	-	-	800	-	-	1,000
Sub-total	-	-	208	-	17	840	-	-	1,065

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Water Treatment Improvements

Number:

00816

Location: Head of the Bay

Project Description



Description: This project implements water treatment improvements to prevent iron, manganese, and sulfide levels from exceeding the maximum contaminant levels (MCLs).

Benefit: Improve water quality for the system.

Schedule: YR1: design. YR2: construction.

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	415	1,015	-	-	1,430
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	415	1,015	-	-	1,430
FUNDING USES (1000's)									
Project Management	-	-	-	-	-	5	-	-	5
Design/construction	-	-	-	-	415	1,010	-	-	1,425
Sub-total	-	-	-	-	415	1,015	-	-	1,430

Estimated Impact on Future Operating Budget

	Prior Yr:	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Winslow Way West

Number:

TBD

Location: New Brooklyn

Project Description



Description: Replace aging water mains in Winslow Way at Grow Avenue prior to roadway reconstruction.

Benefit: Provides for reliable water service in the Winslow area.

Schedule: YR1: Design; YR2: Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
REET Fund	-	-	-	175	645	-	-	-	820
Water Fund	-	-	-	75	300	-	-	-	375
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	250	945	-	-	-	1,195
FUNDING USES (1000's)									
Project Management	-	-	-	11	45	-	-	-	56
Design/construction	-	-	-	239	900	-	-	-	1,139
Sub-total	-	-	-	250	945	-	-	-	1,195

Estimated Impact on Future Operating Budget (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

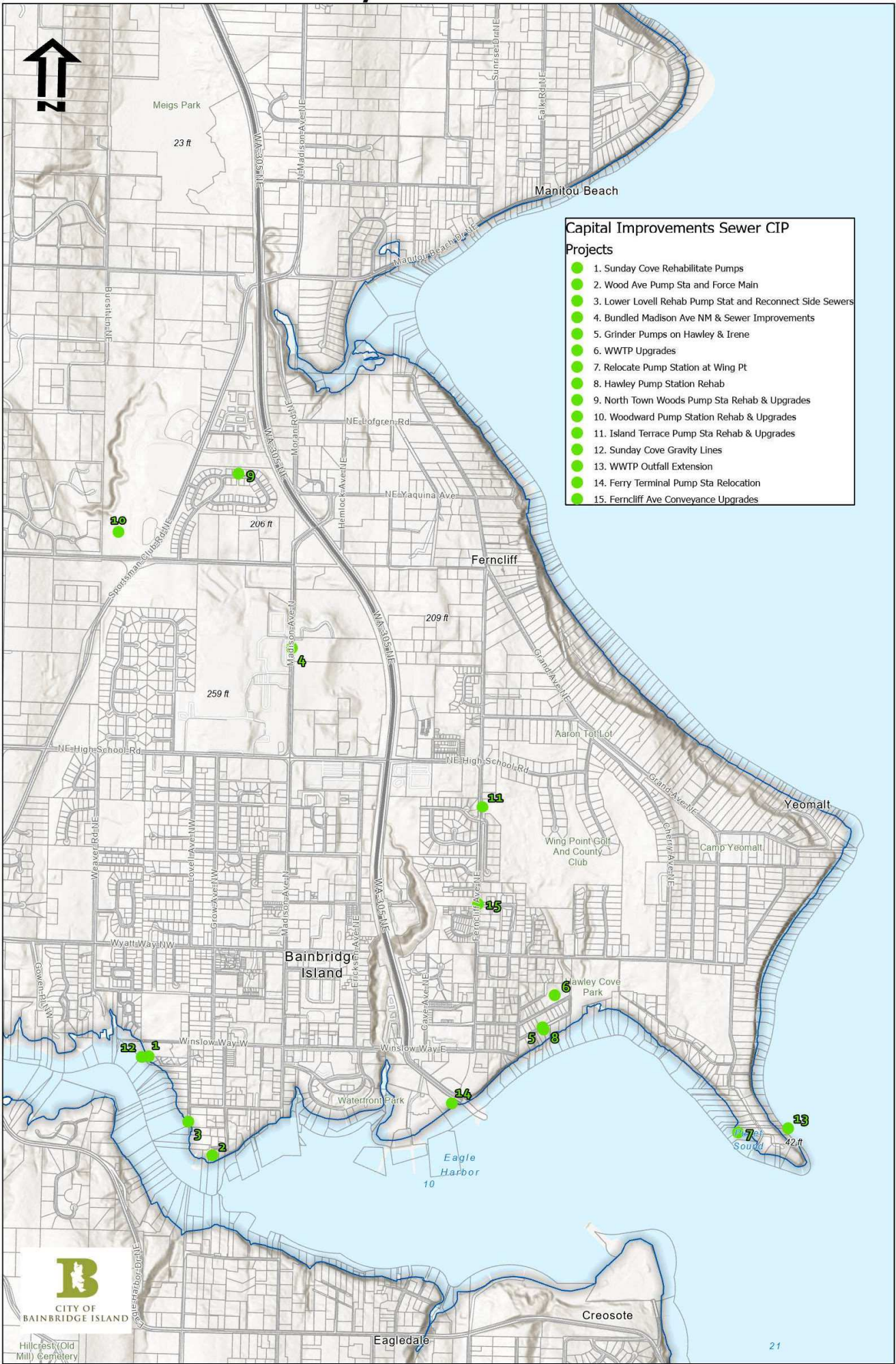
City of Bainbridge Island
Sewer CIP (2023 - 2028)
2024 Modified Budget

Project	Grant Eligible	Grant Awarded	Grant Funds	Tax Supported	Wtr Component	Swr Component	SSWM Comp	Prior Years	2023	2024	2025	2026	2027	2028	2029-2042	Total
SEWER PROJECTS - 6-YEAR CIP (1000s)																
Rehabilitate Pumps <i>Sunday Cove</i>						Y		95	50	450	355	-	-	-	-	950
Pump Station & Force Main <i>Wood Ave</i>						Y		506	-	-	3,470	-	-	-	-	3,975
Rehabilitate Pump Station (Lower Lovell) <i>Lower Lovell</i>						Y		254	-	800	571	-	-	-	-	1,625
Bundled Madison Avenue Nonmotorized & Sewer Improvements Project <i>Madison Ave</i>				Y		Y		792	15	-	-	-	-	-	-	807
Hawley Irene Grinders <i>Hawley/Irene</i>						Y		396	-	-	-	-	-	-	-	396
Wastewater Treatment Plant (WWTP) Upgrades <i>WWTP</i>						Y		164	834	2,142	-	800	-	-	-	3,940
Relocate Pump Station <i>Wing Point</i>						Y		100	1,100	650	-	-	-	-	-	1,850
Hawley Pump <i>Lower Hawley</i>						Y		-	-	124	320	320	-	-	-	764
North Town Woods Pump <i>NW Winslow</i>						Y		-	-	118	262	262	-	-	-	642
Woodward Pump <i>NW Winslow</i>						Y		-	-	133	-	317	317	-	-	767
Rehabilitate Pump Station (Island Terrace) <i>Island Terrace</i>						Y		-	-	180	-	272	272	-	-	724
Install Gravity Sewers <i>Sunday Cove</i>						Y		135	10	11	1,465	-	-	-	-	1,621
Extend WWTP Outfall <i>Wing Point</i>						Y		-	350	700	-	-	5,300	-	-	6,350
Ferncliff Ave Conveyance Upgrades <i>Ferncliff Ave</i>						Y		-	-	-	-	250	1,000	-	-	1,250
Ferry Terminal Pump Station Relocation <i>Winslow</i>						Y		-	-	-	-	-	150	700	-	850
Long Term Replacement Projects <i>Various</i>						Y		-	-	-	-	-	-	-	13,400	13,400
City Total								2,441	2,359	5,308	6,443	2,221	7,039	700	13,400	39,911
Grant Total								-	-	-	-	-	-	-	-	-
TOTAL								2,441	2,359	5,308	6,443	2,221	7,039	700	13,400	39,911

2023 BUA

2024 Mod

2023/2024 Sewer CIP



Project: Rehabilitate Pumps

Number:

00989

Location: Sunday Cove

Project Description



Description: Some components of the Sunday Cove pump station will reach the end of their useful life, which is assumed to be approximately 30 years, over the next few years. In addition to replacement of the pumps and motors, this project will include the replacement of the station's emergency generator.

Benefit: Replacement of a deteriorated system with a reliable sewer collection system that can be maintained in the future.

Schedule: YR1: Design and construction.

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	56	-	257	355	-	-	-	-	669
SSWM Fund	-	-	-	-	-	-	-	-	-
PWTF Loan	39	50	193	-	-	-	-	-	281
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	95	50	450	355	-	-	-	-	950

FUNDING USES (1000's)

Project Management	7	7	8	-	-	-	-	-	22
Design/construction	88	43	442	355	-	-	-	-	928
Sub-total	95	50	450	355	-	-	-	-	950

Estimated Impact on Future Operating Budget (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	2	5	17	17	17	17	221	296
Sub-total	-	2	5	17	17	17	17	221	296

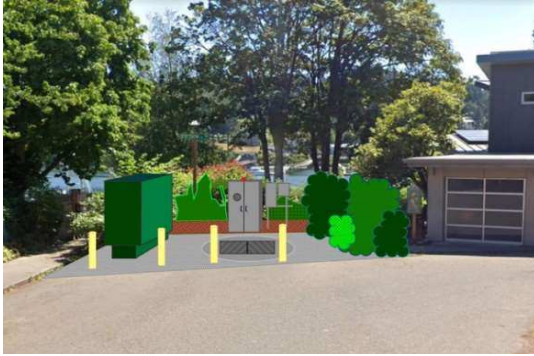
Project: Pump Station and Force Main

Number:

00990

Location: Wood Ave

Project Description



Description: This project is part of a suite of projects (Lovell Pump Station; Sunday Cove Pump Station; and Sunday Cove Gravity Sewers) that are planned to facilitate the abandonment of the north and south sewer beach main, which is an aging facility that has reached the end of its useful life. Abandonment of the beach mains was determined to be the best replacement approach due to environmental, maintenance and cost-benefit concerns.

Benefit: Replacement of a deteriorated system with a reliable sewer collection system that can be maintained in the future.

Schedule: YR1: design/permitting, YR3: construction.

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	300	7	4	2,448	-	-	-	-	2,759
SSWM Fund	-	-	-	-	-	-	-	-	-
PWTF Loan	205	-	-	1,011	-	-	-	-	1,216
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	506	7	4	3,459	-	-	-	-	3,975

FUNDING USES (1000's)

Project Management	13	4	4	-	-	-	-	-	20
Design/construction	493	3	-	3,459	-	-	-	-	3,955
Sub-total	506	7	4	3,459	-	-	-	-	3,975

Estimated Impact on Future Operating Budget (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	12	12	12	79	79	79	1,027	1,300
Sub-total	-	12	12	12	79	79	79	1,027	1,300

Project: Rehabilitate Pump Station and Re-connect Side Sewers

Number:

01086

Location: Lower Lovell

Project Description



Description: The pump station is reaching the end of its useful life, and needs to be upgraded with replacement pumps. This project is part of a suite of projects (Lovell Pump Station; Sunday Cove Pump Station; and Sunday Cove Gravity Sewers) that are planned to facilitate the abandonment of the north and south sewer beach main, which is an aging facility that has reached the end of its useful life. Side sewers associated with several properties along Lovell Avenue will be reconnected to the upland sewer main as part of this project.

Benefit: Replacement of a deteriorated system with a reliable sewer collection system that can be maintained in the future.

Schedule: YR1: design. YR2: construction.

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	151	62	406	509	-	-	-	-	1,128
SSWM Fund	-	-	-	-	-	-	-	-	-
PWTF Loan	103	-	394	-	-	-	-	-	497
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	254	62	800	509	-	-	-	-	1,625
FUNDING USES (1000's)									
Project Management	30	26	20	-	-	-	-	-	75
Design/construction	224	36	780	509	-	-	-	-	1,550
Sub-total	254	62	800	509	-	-	-	-	1,625

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	6	6	31	31	31	31	403	539
Sub-total	-	6	6	31	31	31	31	403	539

Project: Bundled Madison Avenue Nonmotorized & Sewer Improvements**Number:****01100****Location:** Madison Ave**Project Description**

Description: This project will construct a new sewer force main in Madison Avenue between the New Brooklyn sewer pump station and High School Road in conjunction with the Madison Avenue Sidewalk project. The purpose of the main is to more adequately serve the existing and future development in the Village Pump Station sewer area.

Benefit: Improves reliability of sewer collection system.

Schedule: YR1: Design and Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	209	-	-	-	-	-	-	-	209
REET Fund	731	505	-	-	-	-	-	-	1,236
Trans. Benefit Fund	25	860	-	-	-	-	-	-	885
Sewer Fund	792	15	-	-	-	-	-	-	807
Federal Grant	1,410	-	-	-	-	-	-	-	1,410
ARPA	-	2,000	-	-	-	-	-	-	2,000
Sub-total	3,167	3,380	-	-	-	-	-	-	6,547

FUNDING USES (1000's)

Project Management	117	64	-	-	-	-	-	-	181
Design/construction	3,050	3,316	-	-	-	-	-	-	6,366
Sub-total	3,167	3,380	-	-	-	-	-	-	6,547

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

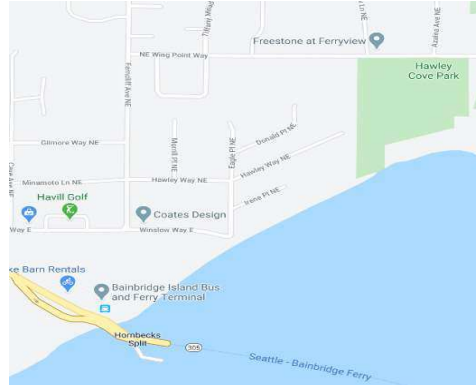
Project: Hawley/Irene Grinder Pumps

Number:

01103

Location:

Project Description



Description: This project proposes to replace an aging and failing gravity sewer main with a new force main and grinders pumps for several residences along Hawley Way and Irene Place.

Benefit: Replacement of a deteriorated system with a reliable improvement that can be maintained in the future.

Schedule: YR1: Design and YR2:Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	20	376	-	-	-	-	-	-	396
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	20	376	-	-	-	-	-	-	396
FUNDING USES (1000's)									
Project Management	17	36	-	-	-	-	-	-	53
Design/Construction	3	340	-	-	-	-	-	-	343
Sub-total	20	376	-	-	-	-	-	-	396

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: WWTP Upgrades

Number:

01187

Location: WWTP

Project Description



Description: The Wastewater Treatment Plant requires near-term capacity upgrades to ensure compliance with the City's wastewater discharge permit issued by the Department of Ecology. The near-term improvements include optimization of settling capacity; replacing the UV disinfection system; modifying existing clarifiers and improving sludge dewatering.

Benefit: Compliance with state requirements.

Schedule: YR1: design. YR2: construction.

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	164	943	2,033	-	800	-	-	-	3,940
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	164	943	2,033	-	800	-	-	-	3,940
FUNDING USES (1000's)									
Project Management	-	12	35	-	-	-	-	-	47
Design/construction	164	931	1,998	-	800	-	-	-	3,893
Sub-total	164	943	2,033	-	800	-	-	-	3,940

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

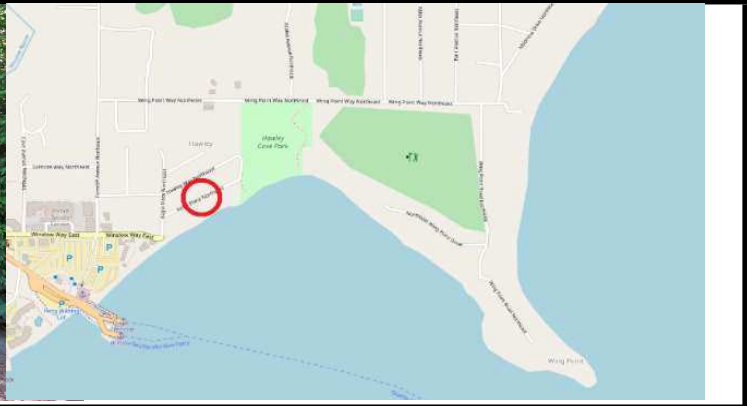
Project: Wing Point Pump Relocation

Number:

00820

Location: Wing Point

Project Description



Description: The Wing Point Pump Station has not been upgraded since its construction in 1979, and has reached the end of its useful life. In addition to required upgrades, the pump station will need to be relocated and rebuilt to accommodate impacts from sea-level rise.

Benefit: Improves reliability of current sewer collection system.

Schedule: 2020: Design; 2024: Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	102	1,100	648	-	-	-	-	-	1,850
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	102	1,100	648	-	-	-	-	-	1,850

FUNDING USES (1000's)									
Project Management	4	5	8	-	-	-	-	-	17
Design/construction	98	1,095	640	-	-	-	-	-	1,833
Sub-total	102	1,100	648	-	-	-	-	-	1,850

Estimated Impact on Future Operating Budget (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Rehabilitate Pump Station

Number:

01102

Location: Lower Hawley

Project Description



Description: The station was constructed as part of a major sewer system upgrade in 1979. Telemetry is limited to monitoring and is provided by a tone RTU installed in 1995. A generator set installed in 1996. The electrical systems are in fair condition, the telemetry is beyond its useful life, and the wet well controls do not meet current safety standards. Because of their age, the pumps, motors, valves, controls, and telemetry should be replaced. The station has exceeded the estimated useful life and requires rehabilitation.

Benefit: Replacement of a deteriorated system with a reliable sewer collection system that can be maintained in the future.

Schedule: YR1: design. YR2: construction.

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	4	121	320	320	-	-	-	764
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	4	121	320	320	-	-	-	764
FUNDING USES (1000's)									
Project Management	-	4	10	-	-	-	-	-	13
Design/construction	-	-	111	320	320	-	-	-	751
Sub-total	-	4	121	320	320	-	-	-	764

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: North Town Woods Pump

Number:

01104

Location:

Project Description



Description: This project proposes to upgrade the North Town Woods pump station to meet current standards, as identified in the City's General Sewer Plan.

Benefit: Upgrading the sewer system with a reliable improvement that can be maintained in the future.

Schedule: YR1: design. YR3: construction.

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	2	137	241	262	-	-	-	642
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	2	137	241	262	-	-	-	642
FUNDING USES (1000's)									
Project Management	-	2	5	-	-	-	-	-	7
Design/construction	-	-	132	241	262	-	-	-	635
Sub-total	-	2	137	241	262	-	-	-	642

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Woodward Pump

Number:

01125

Location:

Project Description



Description: This project proposes to upgrade the Woodward pump station to meet current standards, as identified in the City's General Sewer Plan.

Benefit: Upgrading the sewer system with a reliable improvement that can be maintained in the future.

Schedule: YR1: Design; YR4: Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	2	131	-	317	317	-	-	767
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	2	131	-	317	317	-	-	767
FUNDING USES (1000's)									
Project Management	-	2	5	-	-	-	-	-	7
Design/construction	-	-	126	-	317	317	-	-	760
Sub-total	-	2	131	-	317	317	-	-	767

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Rehabilitate Pump Station

Number:

01105

Location: Island Terrace

Project Description



Description: The Island Terrace pump station will reach the end of its useful life, which is assumed to be approximately 30 years, over the next few years. Additionally the concrete drywell and wet well at the pump station requires painting. As the upgrade project takes place, wet well controls should be replaced to meet current safety standards.

Benefit: Replacement of a deteriorated system with a reliable sewer collection system that can be maintained in the future.

Schedule: YR1: design. YR3: construction.

Capital Funding (1000's)

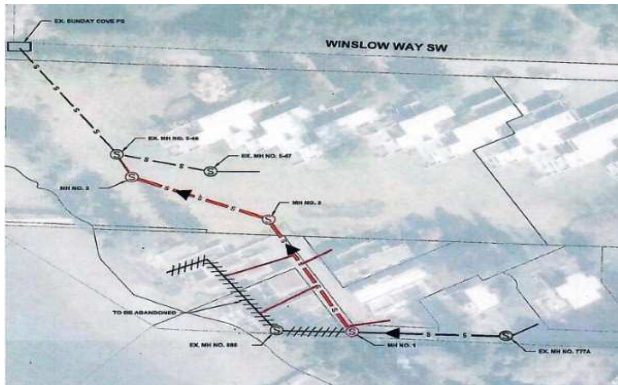
								2029-	
	Prior Yrs.	2023	2024	2025	2026	2027	2028	2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	-	180	-	272	272	-	-	724
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	-	180	-	272	272	-	-	724
FUNDING USES (1000's)									
Project Management	-	-	7	-	-	-	-	-	7
Design/construction	-	-	173	-	272	272	-	-	717
Sub-total	-	-	180	-	272	272	-	-	724

Estimated Impact on Future Operating Budget

								2029-	
	Prior Yrs.	2023	2024	2025	2026	2027	2028	2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

01085

Project Description



Benefit: Replacement of a deteriorated system with a reliable sewer collection system that can be maintained in the
Schedule: 2020: Design; 2026: Construction

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	135	10	80	1,396	-	-	-	-	1,621
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	135	10	80	1,396	-	-	-	-	1,621
FUNDING USES (1000's)									
Project Management	3	5	2	-	-	-	-	-	11
Design/construction	132	5	78	1,396	-	-	-	-	1,610
Sub-total	135	10	80	1,396	-	-	-	-	1,621

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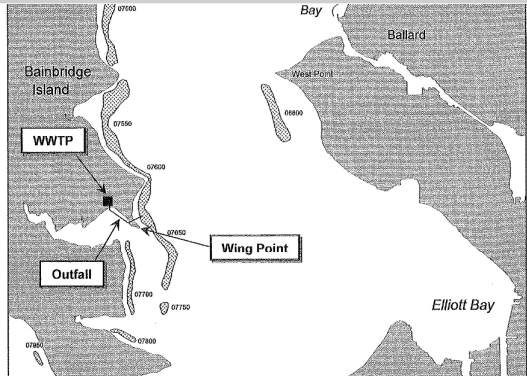
Project: Extend WWTP Outfall

Number:

01106

Location: Wing Point

Project Description



Description: The outfall from the City WWTP operates under an aquatic lease with WDFW. The outfall terminates in a geoduck bed, which is closed for harvesting due to this outfall. Recent shellfish surveys have documented the loss of potential harvest, and WDFW has notified the City that natural resource fines will likely be implemented in the near future. This project will extend the outfall as described in the Cosmopolitan Engineering report of 2008.

Benefit: Protect natural resources and ensure the future operation of the WWTP.

Schedule: YR1: design, YR2: construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	350	700	-	-	5,300	-	-	6,350
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	350	700	-	-	5,300	-	-	6,350
FUNDING USES (1000's)									
Project Management	-	7	10	-	-	-	-	-	16
Design/construction	-	343	690	-	-	5,300	-	-	6,334
Sub-total	-	350	700	-	-	5,300	-	-	6,350

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Ferncliff Ave Conveyance Upgrades

Number:

01235

Location: Ferncliff Ave

Project Description

Description: The Ferncliff water line extension is intended to serve two small water systems, the City's Casey Street water system, which was purchased by the City in 2018, and the Ferncliff Water Association system, which is seeking options in lieu of rebuilding an aging system.

Benefit:

Schedule: YR1: design. YR2: construction.

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	250	1,000	-	-	1,250
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	250	1,000	-	-	1,250
FUNDING USES (1000's)									
Project Management	-	-	-	-	-	-	-	-	-
Design/construction	-	-	-	-	250	1,000	-	-	1,250
Sub-total	-	-	-	-	250	1,000	-	-	1,250

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Ferry Terminal Pump Station Relocation

Number:

TBD

Location: Ferry Terminal

Project Description

Description:

Benefit:

Schedule: YR1: design. YR2: construction.

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	150	700	-	850
SSWM Fund	-	-	-	-	-	-	-	-	-
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	150	700	-	850
FUNDING USES (1000's)									
Project Management	-	-	-	-	-	-	-	-	-
Design/construction	-	-	-	-	-	150	700	-	850
Sub-total	-	-	-	-	-	150	700	-	850

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-



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City of Bainbridge Island
Stormwater CIP (2023- 2028)
2024 Modified Budget

Project / Location	Grant Eligible	Grant Awarded	Grant Funds	Tax Supported	Wtr Component	Swr Component	SSWM Comp	Prior Years	2023	2024	2025	2026	2027	2028	2029-2042	Total
STORMWATER PROJECTS - 6-YEAR CIP (1000s)																
Eagle Hrbr. Dr. @ McDonald Creek Culvert <i>Eagle Harbor Dr</i>			-				Y	276	100	-	-	-	-	-	-	376
Yeomalt Area Drainage Improvements <i>Yeomalt Area</i>			-				Y	68	723	-	-	-	-	-	-	791
Springbrook Creek Restoration and Culvert Complex Replacement <i>High School Rd & Fletcher</i>	x		-				Y	-	310	1,250	-	-	-	-	-	1,560
Springbrook Fish Passage <i>Fletcher Bay Rd</i>	x		2,655	Y			Y	135	169	796	1,925	-	-	-	-	3,025
Eagle Harbor Drive Cooper Creek Fish Passage <i>Head of Bay</i>	x		-				Y	24	1,052	532	-	-	-	-	-	1,608
Blakely Ave. Drainage Improvements <i>Blakely & Halls Hill</i>			-				Y	-	-	-	468	-	-	-	-	468
City Funding								418	2,354	1,808	593	-	-	-	-	5,173
Grant Totals								85	-	770	1,800	-	-	-	-	2,655
TOTAL								503	2,354	2,578	2,393	-	-	-	-	7,828

2023 BUA

2024 Mod

Capital Improvement Stormwater CIP Projects

- 1. Eagle Harbor Dr at McDonald Creek
- 2. Yeomalt Area
- 3. Springbrook Crk Restoration & Culvert Complex Replacement
- 4. Eagle Harbor Dr at Cooper Crk Fish Passage
- 5. Blakely Ave Drainage Improvements
- 6. Springbrook Crk Restoration & Culvert Complex Replacement

Project: Eagle Harbor Drive at McDonald Creek

Number:

00823

Location: 5530 Eagle Harbor Drive

Project Description



Description: Replacement of an existing deep concrete culvert that shows signs of failure.

Benefit: Preservation of roadway and drainage system.

Schedule: 2020: Design and permitting; Construction deferred until permits are in place.

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	276	100	-	-	-	-	-	-	376
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	276	100	-	-	-	-	-	-	376
FUNDING USES (1000's)									
Project Management	20	-	-	-	-	-	-	-	20
Design/construction	256	100	-	-	-	-	-	-	356
Sub-total	276	100	-	-	-	-	-	-	376

Estimated Impact on Future Operating Budget (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Yeomalt Area Drainage Improvements

Number:

00663

Location: Area bordered by Cherry, Yeomalt, Madrona and Wing Point Way

Project Description



Description: Provides for storm drainage improvements in the Yeomalt area. The City completed design in 2014 with funds received from a DOE grant for water quality.

Benefit: Much of the Wing Point area above Yeomalt Point was developed before regulations required conveyance systems. Currently there are drainage problems in many areas and/or existing conveyances are lacking or inadequate.

Schedule: 2021: Design; 2023: Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	68	723	-	-	-	-	-	-	791
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	68	723	-	-	-	-	-	-	791
FUNDING USES (1000's)									
Project Management	15	21	-	-	-	-	-	-	36
Design/construction	53	702	-	-	-	-	-	-	755
Sub-total	68	723	-	-	-	-	-	-	791

Estimated Impact on Future Operating Budget (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

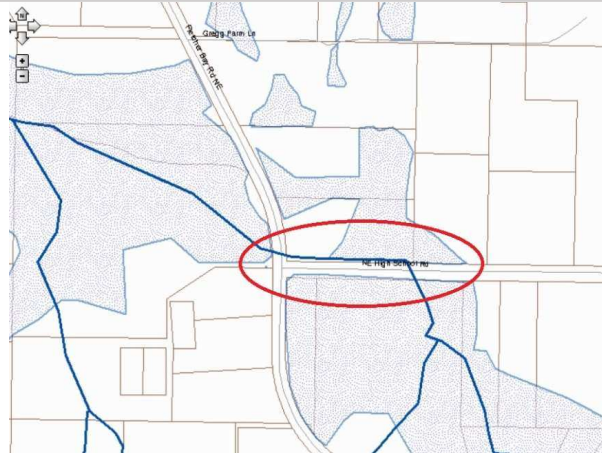
Project: Springbrook Creek Restoration and Culvert Complex Replacement

Number:

01236

Location: Vicinity of High School and Fletcher Intersection

Project Description



Description: Upgrade failing complex of culverts across High School and Fletcher Bay Roads to fish passage culverts and restore section of creek that has been degraded.

Benefit: Preserve roadway and improve environmental conditions

Schedule: YR 1: Design; YR 2: Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	-	310	1,250	-	-	-	-	-	1,560
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	-	310	1,250	-	-	-	-	-	1,560
FUNDING USES (1000's)									
Project Management	-	10	38	-	-	-	-	-	48
Design/construction	-	300	1,212	-	-	-	-	-	1,512
Sub-total	-	310	1,250	-	-	-	-	-	1,560

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Springbrook Fish Passage

Number:

01159

Location: Fletcher Bay Road west of New Brooklyn

Project Description



Description: The Springbrook Fish Weir/Passage project proposes to replace the existing culvert at Springbrook Creek with an open box/bridge structure and streambed restoration.

Benefit: Provide a more adequate infrastructure for fish passage.

Schedule: YR 1: Design YR 2: Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	50	-	176	100	-	-	-	-	326
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	50	169	26	125	-	-	-	-	370
Federal Grant	-	-	770	1,800	-	-	-	-	2,570
State Grant	85	-	-	-	-	-	-	-	85
Sub-total	185	169	972	2,025	-	-	-	-	3,351

FUNDING USES (1000's)

Project Management	1	20	9	25	-	-	-	-	55
Design/construction	184	149	963	2,000	-	-	-	-	3,296
Sub-total	185	169	972	2,025	-	-	-	-	3,351

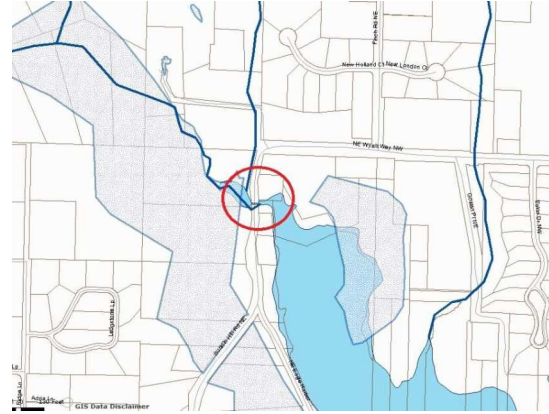
Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Eagle Harbor Drive Cooper Creek Fish Passage
Location: Head of the Bay North of Green Light Automotive

Number: 01107

Project Description



Description: Replace existing undersized culvert with a fish passage box culvert wide enough to accomodate non-motorized improvements on Eagle Harbor Drive.

Benefit: Addresses flooding, provides for fish passage, and accommodates future non-motorized improvements.

Schedule: 2021: Design; 2024 Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	24	52	1,531	-	-	-	-	-	1,608
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	24	52	1,531	-	-	-	-	-	1,608
FUNDING USES (1000's)									
Proj. Management	7	15	2	-	-	-	-	-	25
Design/construction	17	37	1,529	-	-	-	-	-	1,583
Sub-total	24	52	1,531	-	-	-	-	-	1,608

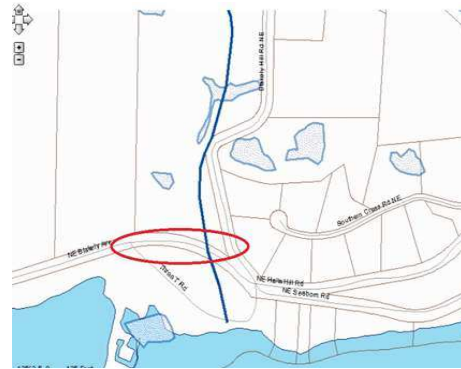
Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029- 2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-

Project: Blakely Ave. Drainage Improvements
Location: Blakely Hills and Halls Hill intersection

Number: 01225

Project Description



Description: Restoration of downstream drainage channel and potential culvert replacement across Blakely Avenue near the intersection with Halls Hill Road. Portions of the improvements may be located outside of the ROW and on Park property.

Benefit: Addresses water on roadway and poor drainage.

Schedule: YR 1: Design and Construction

Capital Funding (1000's)

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
FUNDING SOURCES (1000's)									
General Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-	-
SSWM Fund	-	-	-	468	-	-	-	-	468
Federal Grant	-	-	-	-	-	-	-	-	-
State Grant	-	-	-	-	-	-	-	-	-
Sub-total	\$0	\$0	\$0	\$468	\$0	\$0	\$0	\$0	\$468

FUNDING USES (1000's)

Project Management				18					18
Design/construction				450					450
Sub-total	\$0	\$0	\$0	\$468	\$0	\$0	\$0	\$0	\$468

Estimated Impact on Future Operating Budget

	Prior Yrs.	2023	2024	2025	2026	2027	2028	2029-2042	Total
Operating	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-