

Clean Water Commission

June 5, 2024

Devan Rostorfer, Clark County Public Works

Clean Water Division Manager





Meeting Agenda

Wednesday, June 5, 2024 - 6:30 pm

Public Service Center (PSC) Conference Room #698
1300 Franklin Street, Vancouver, WA 98666

CWC Members:

Ted Gathe, Chair
Watershed

Glen DeWillie, Vice Chair
Watershed

Tracy Ceravolo
Gee Creek Watershed

Alejandra Cortes
Salmon Creek Watershed

Glen DeWillie
Lacamas Watershed

Ted Gathe
Burnt Bridge Creek Watershed

Vacant
TBD Watershed

Sandra Martin-Boehm
West Slope Watershed

Kate Perkins
North Fork Lewis River Watershed

Rudy Salakory
Vancouver Lake / Lake River Watershed

Phil Struck
Salmon Creek Watershed

Clark County Staff Liaison:
Alice Millward
Program Assistant
Phone: 564.397.5267
Email: alice.millward@clark.wa.gov

2024 Regular Meetings:
Feb. 7, 2024
April 3, 2024
June 5, 2024
Aug. 7, 2024
Oct. 2, 2024
Dec. 4, 2024

2024 Special Meetings:
July 30 Bus Tour
October 17 Vancouver Lake Symposium

1. CALL TO ORDER - Chair Gathe

2. ADMINISTRATIVE ACTIONS

- a. Roll Call
- b. Approve April 3, 2024, Meeting Summary **

3. PUBLIC COMMENTS

The public is encouraged to participate in this hybrid meeting through the following ways:

- Attend in person at the PSC Conference Room #698
- Submit comments to cleanwater@clark.wa.gov by 12pm on 6/05
- By phone: (213) 262-7043 Enter meeting ID: 757 251 314 #
- By computer: Ctrl+click [Join the meeting now](#)

4. CLEAN WATER DIVISION UPDATES

- a. Manager's Update – Devan Rostorfer
 - 1) 2024 Rate Study Update
 - 2) Lakes Updates
 - 3) General Division Updates
- b. Staff Liaison Report – Alice Millward
 - 1) July 30 Bus Tour Details
 - 2) Survey Results
 - 3) Annual Report Work Session Date Aug. 21

5. UNFINISHED BUSINESS / ACTIONS

- a. 2024 CWC Work Plan
 - 1) Rate Study Support Work Group
 - a. Letters of Support (April / June / August)
 - 2) Vancouver Lake Symposium Work Group (Gathe Lead)
 - a. October 17 Vancouver Water Resources Center
 - 3) Environmental Justice / Watershed Health Work Group

6. NEW BUSINESS / ACTIONS

- a. RFP Updates

7. ROUNDTABLE DISCUSSION / COMMISSIONER'S COMMENTS

8. ADJOURN – Chair Gathe

** Motion Needed

Note: An audio/video recording of this meeting will be available through the county website at: <https://www.clark.wa.gov/public-works/clean-water-commission>



Division Manager's Update



Overview

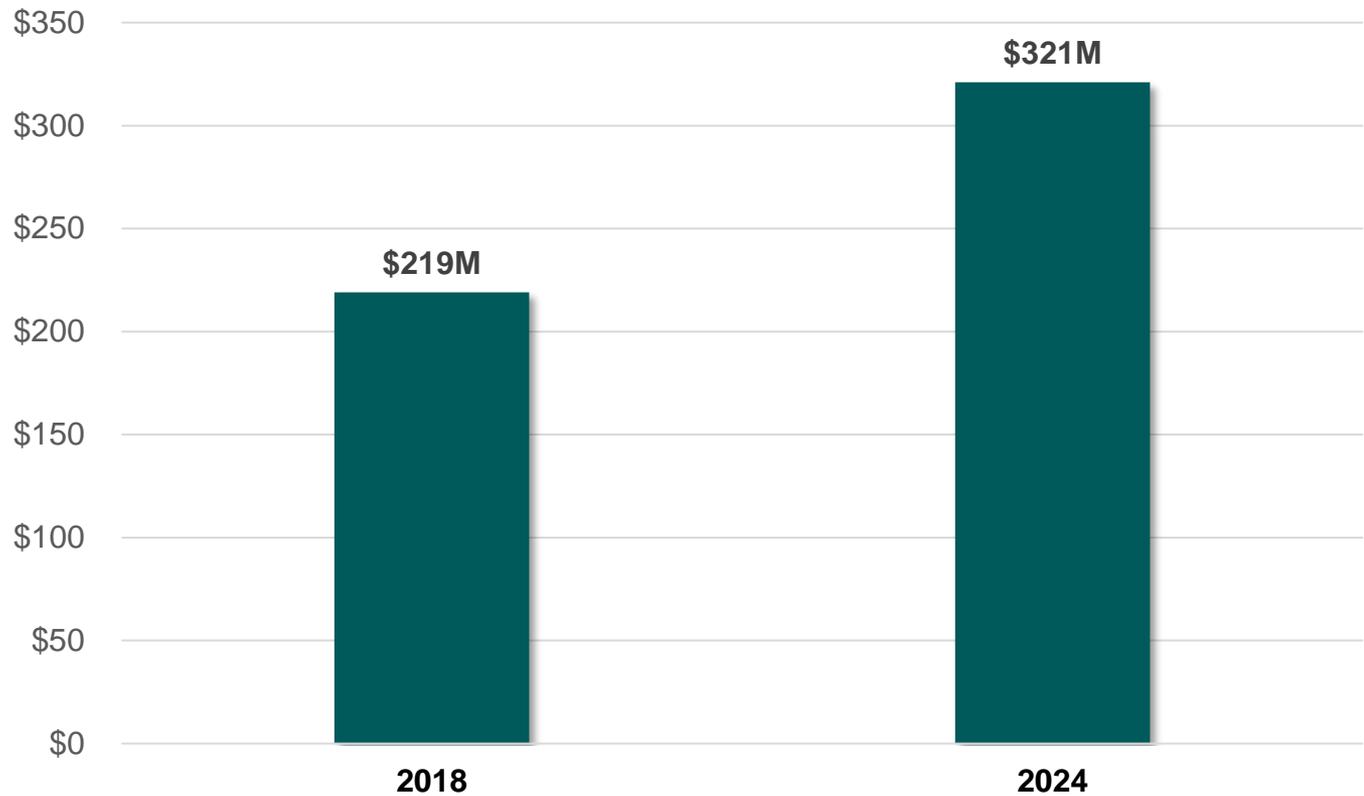
- 2024 Rate Study Presentation
- Lakes Updates
- RFP Updates
- Other



2024 Rate Study Update



Infrastructure Replacement Value - Increase 2018-2024



47% increase in Total Replace Value



Infrastructure Replacement Value - 2018

2018 ESTIMATED REPLACEMENT VALUE		
Asset	Count	Replacement Value
Catch basins	11,815	\$14,000,000
Outlet control structures	642	\$4,000,000
Storage/Treatment	Biofiltration swales	\$9,000,000
	Ponds/wetlands	\$6,000,000
	Bioretention areas	\$5,000,000
	Underground storage	na
Manholes	8,305	\$25,000,000
Treatment cartridge structures	350	\$12,000,000
Gravity mains	25,802	\$135,000,000
Drywells	1,601	\$8,000,000
Total	50,461	\$219,000,000



Infrastructure Replacement Value - 2024

2024 ESTIMATED REPLACEMENT VALUE					
Asset	Count	Replacement Value	Value Increase 2018-2024	Percent Increase	
Catch basins	12,795	\$18,000,000	\$4M	28.5%	
Outlet control structures	685	\$5,000,000	\$1M	25%	
Storage/Treatment	Biofiltration swales	657	\$11,000,000	\$2M	22%
	Ponds/wetlands	526	\$20,000,000	\$14M	233%
	Bioretention areas	607	\$12,000,000	\$7M	140%
	Underground storage	4 miles	\$5,000,000	N/A	N/A
Manholes	9,078	\$34,000,000	\$9M	36%	
Treatment cartridge structures	894 ~3400 cartridges	\$23,000,000	\$11M	92%	
Gravity mains	440 miles	\$182,000,000	\$47M	35%	
Drywells	1683	\$11,000,000	\$3M	38%	
Total		\$321,000,000	\$102M	47%	



Six Programs for NPDES Permit Compliance

Capital Facilities

**New Stormwater
Construction
Projects**

**Stormwater
Planning &
Coordination**

**Private facilities,
source control
& planning**

**Public
Facilities
Maintenance &
Operations**

**Maintenance of
existing
infrastructure**

**Public
Information &
Outreach**

**Education &
Outreach**

**Monitoring &
Assessment**

**Collecting data
on water quality**

**Clean Water
Administration &
Lake Management**

**Lake
Management &
Other Activities**

65 Service Gaps Identified

Capital Facilities

17 Gaps

Stormwater
Planning &
Coordination

11 Gaps

Public
Facilities
Maintenance &
Operations

22 Gaps

Public
Information &
Outreach

4 Gaps

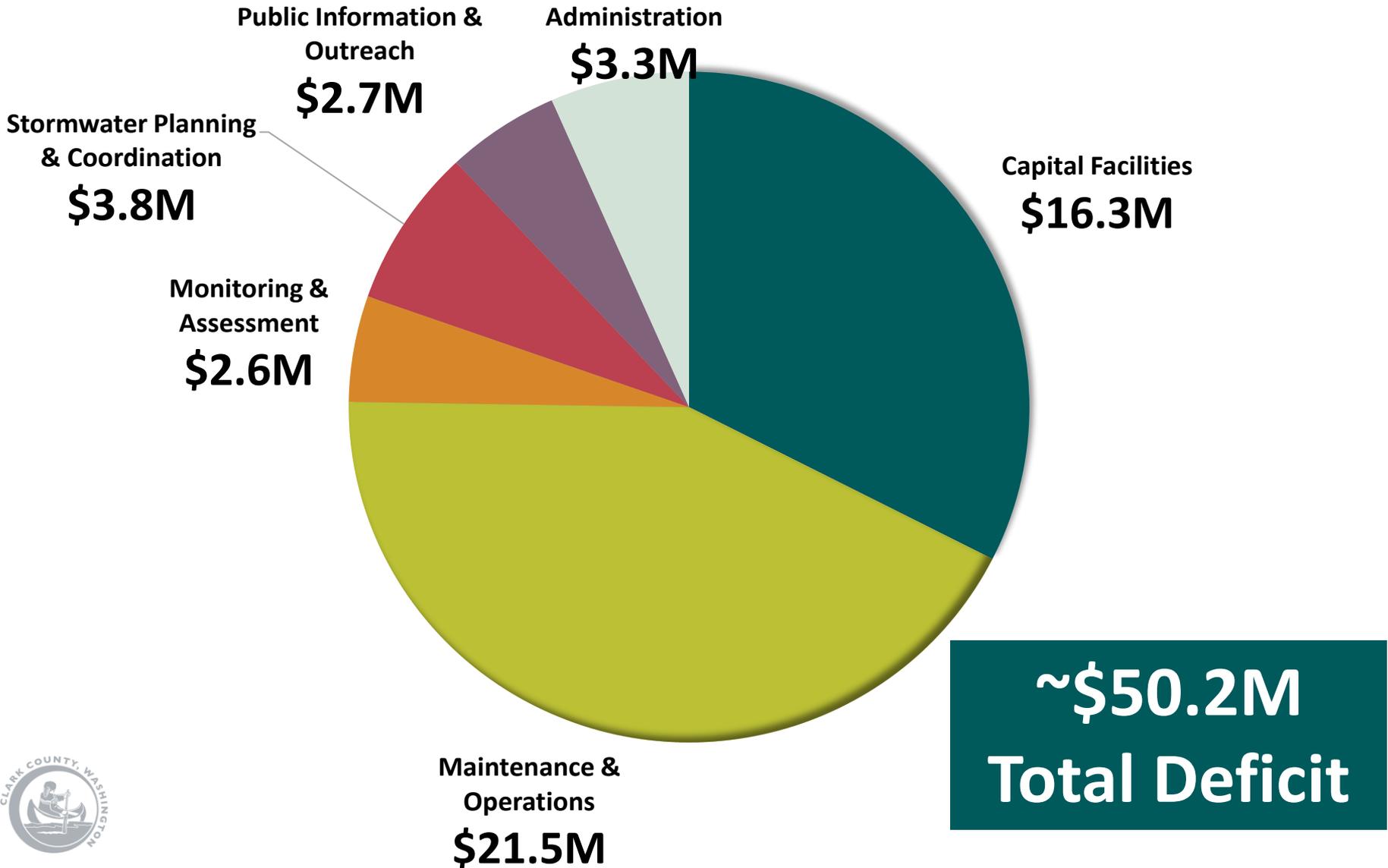
Monitoring &
Assessment

4 Gaps

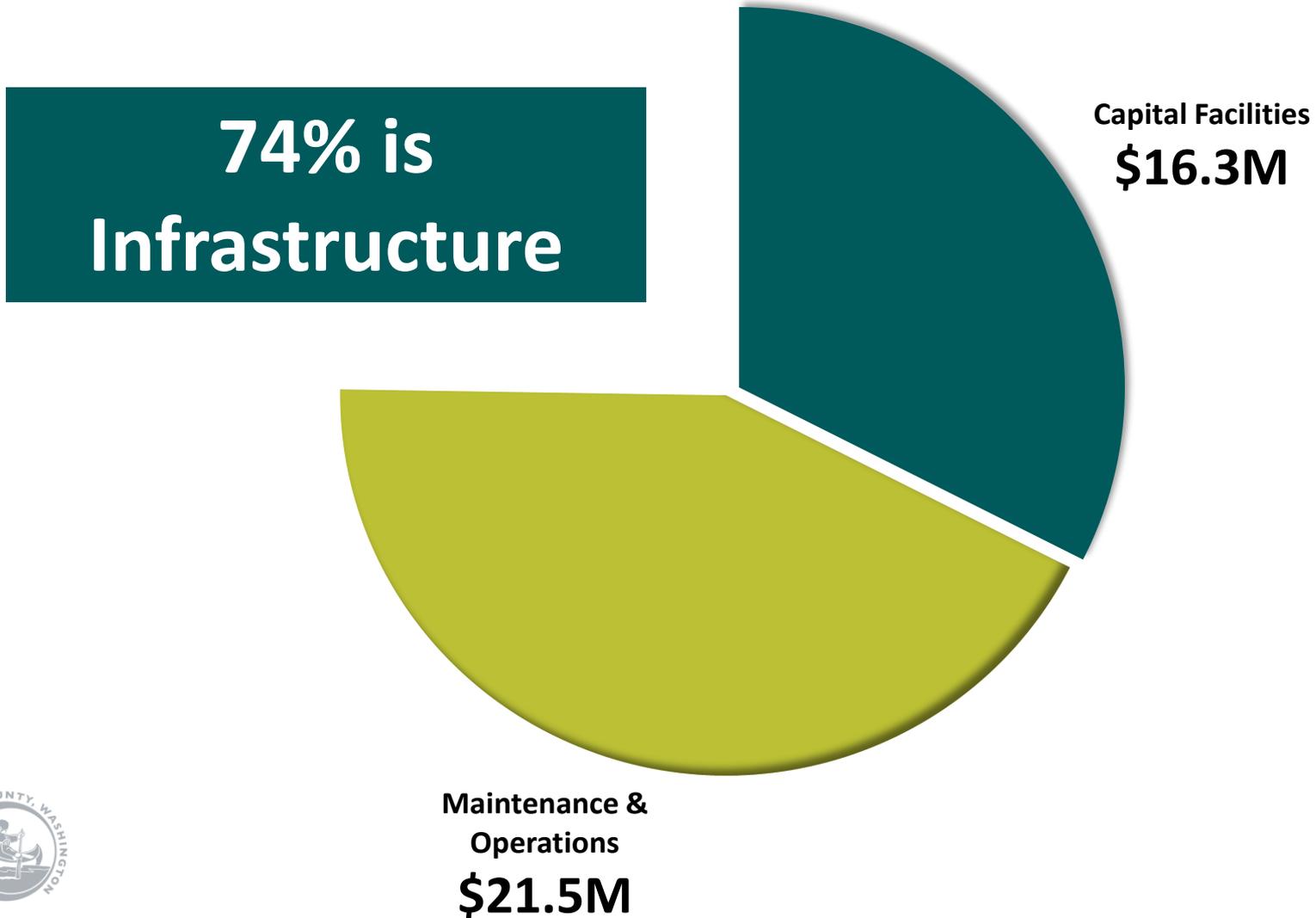
Clean Water
Administration &
Lake Management

7 Gaps

Fund Deficit by Program 2025-2029



Fund Deficit by Program 2025-2029



Mandated, Recommend & Additional Service Gaps



Defining Clean Water's Level of Service

Mandated Services

*Base level of service
Permit Compliance*

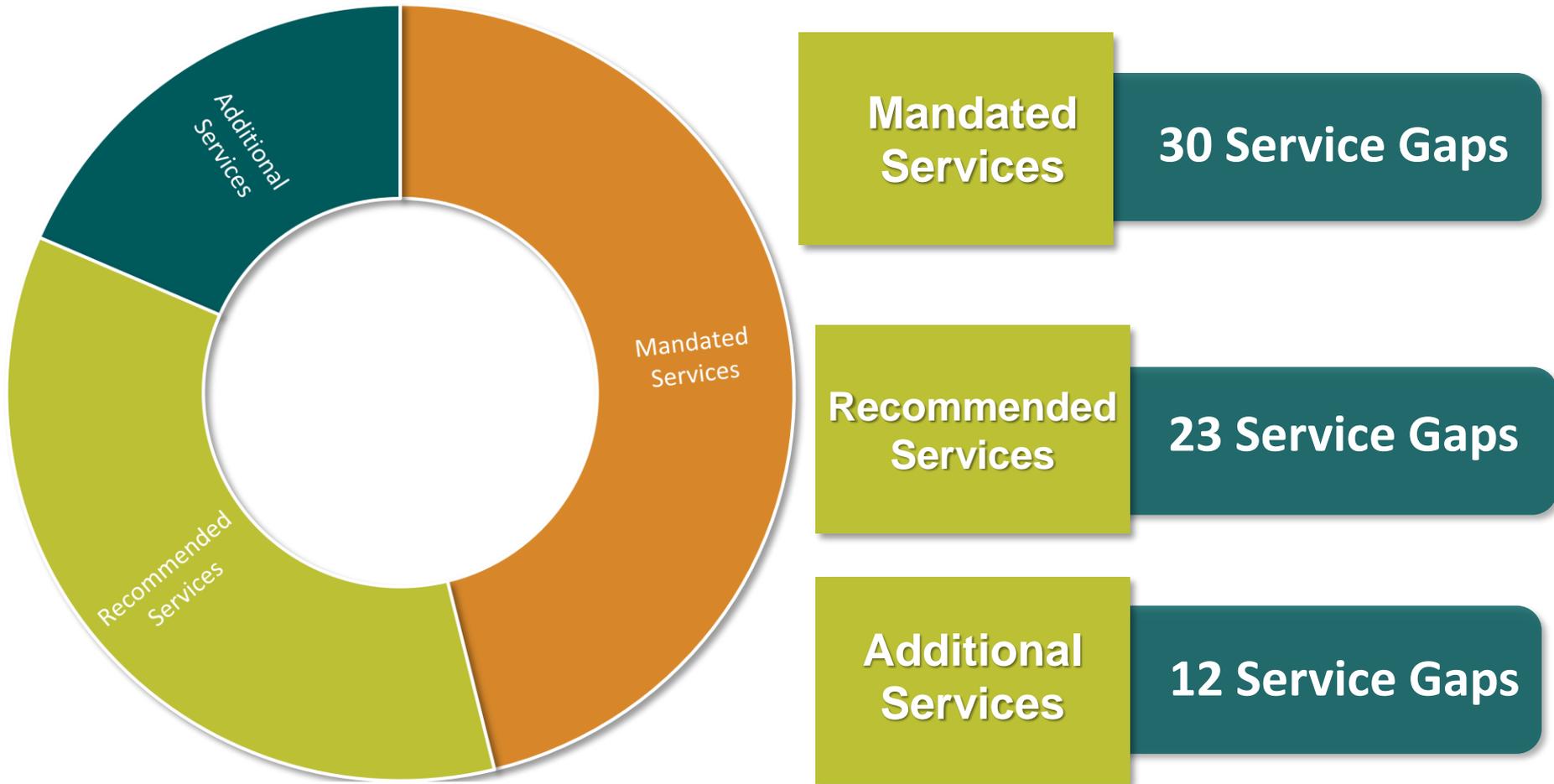
Recommended Services

*Proactive level of service
Prevent failure
Extend useful life
Reduce risks
Avoid future noncompliance*

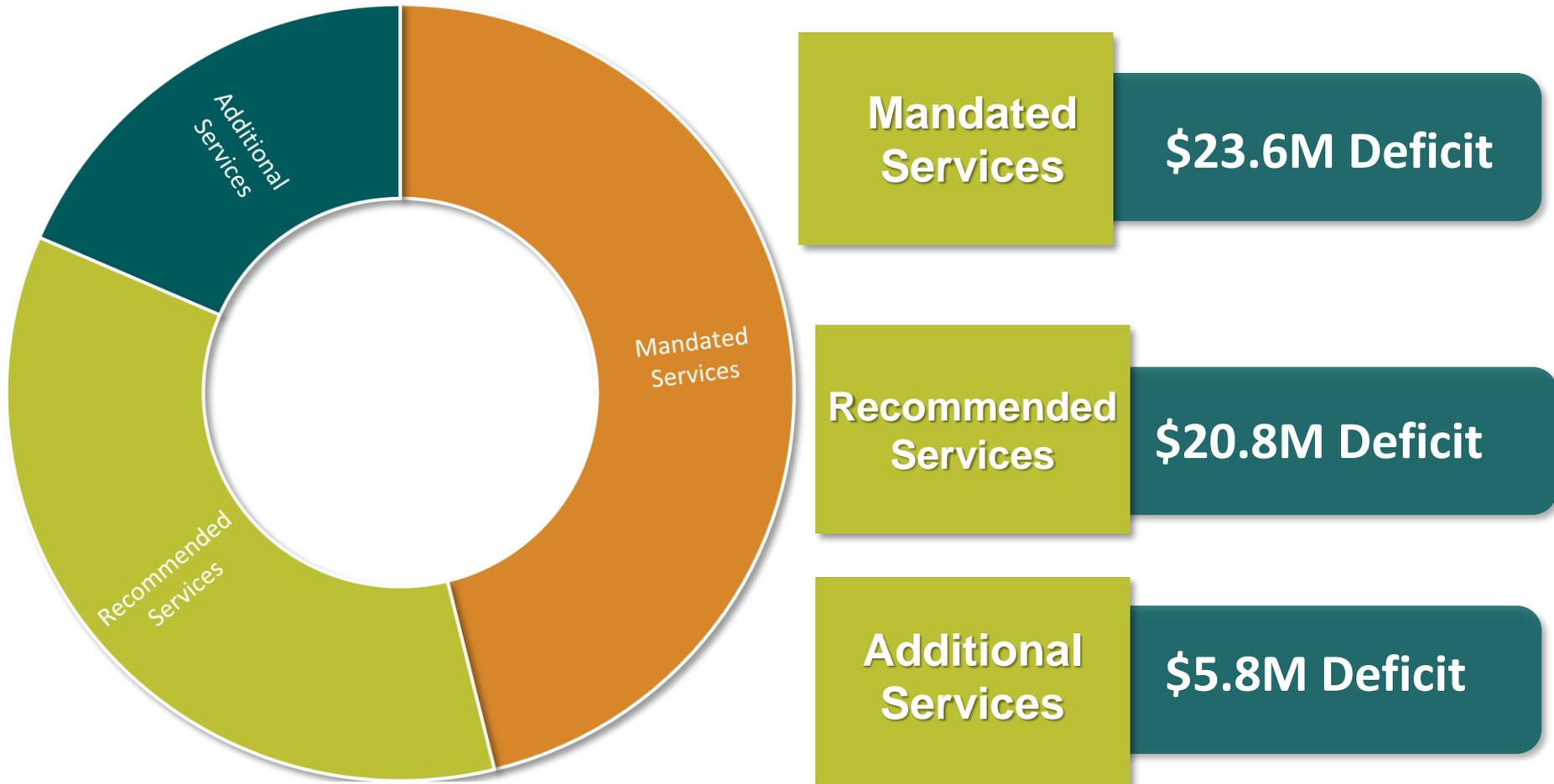
Additional Services

*High level of service
Leading Practices*

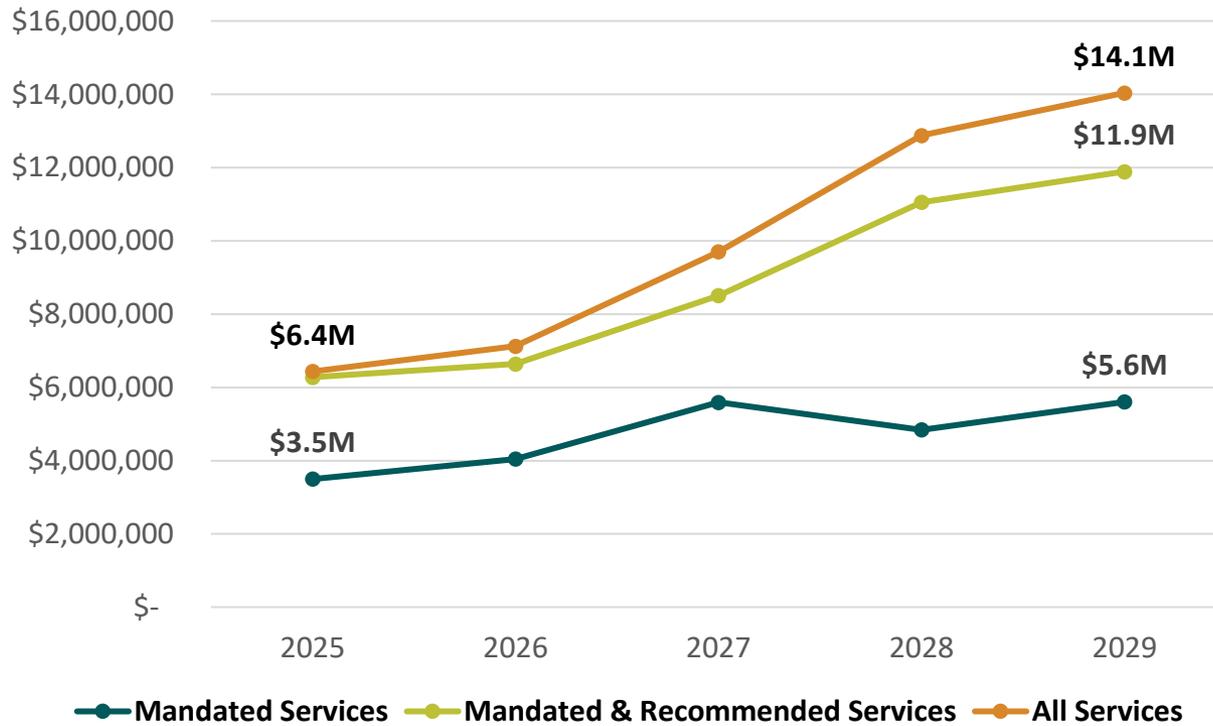
65 Service Gaps Identified



Total Fund Deficit 2025-2029



Fund Deficit 2025-2029



Clean Water Request



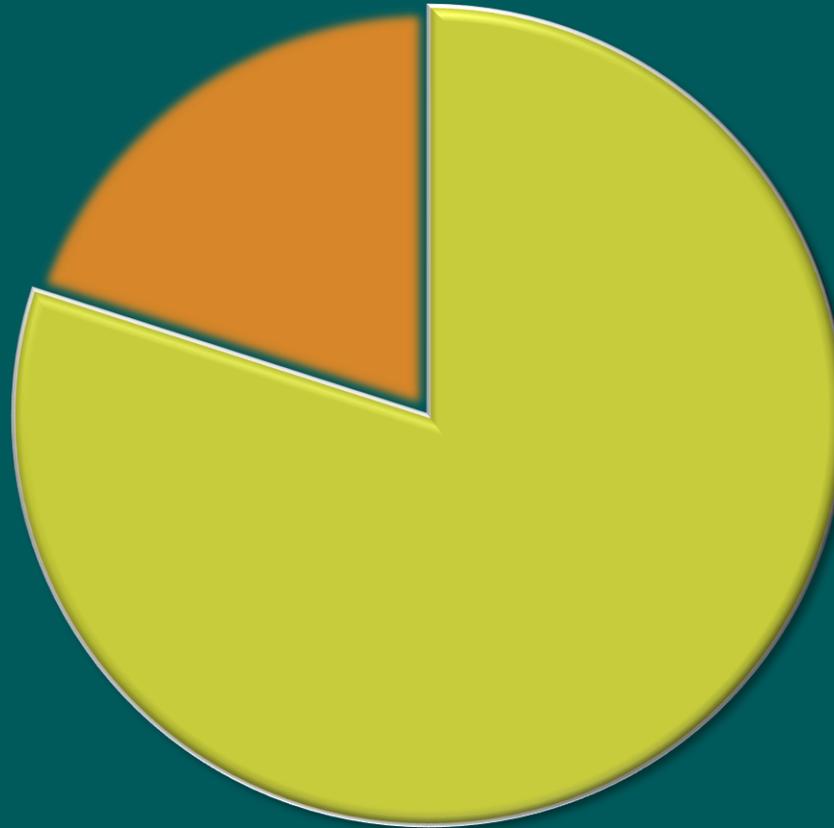
Clean Water Request – Priority #1

Support Clean Water to address
Mandated, Recommended & Additional
service gaps.

Clean Water Request – Priority #2

Support Clean Water to address
Mandated & Recommended
service gaps only.

What we heard from the Public



■ 84% say Improvement Needed



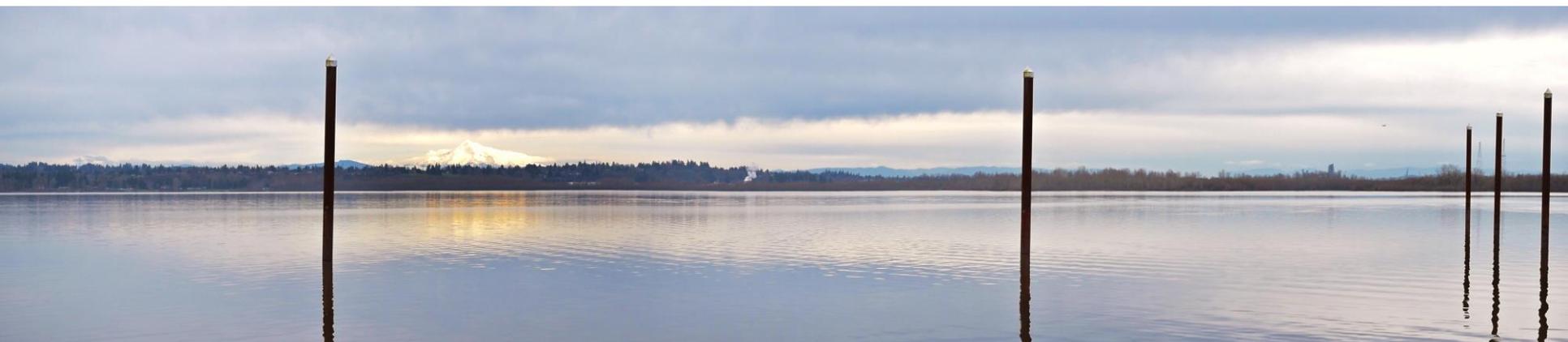
Next Work Session – June 26

Draft Rates for:

- Mandated Services only
- Mandated + Recommended Services
- Mandated + Recommended + Additional Services

Rate Structure Policy:

- *Single Family (38% of revenue)*
 - Adopt uniform fee
 - No reduction for lot size.
 - No reduction for rural.
- *Base Unit ERU Adjustment (3,500 sq. ft)*
 - Businesses (18% of revenue)
 - Roads (30% of revenue)
 - Vancouver = 2,500 sq. ft.
 - Camas = 3,280 sq. ft.
 - Ridgefield = 3,500 sq. ft.



Rate Study Milestones



- **July 22-24, 2024** – Public Information Sessions.
- **July 30, 2024** – Council & Commission Bus Tour
- **TBD** – Additional Work Session in July or August?
- **August 27** – Rate Adoption Hearing.
- **October 2024** – New fees calculated.
- **December 2024** – 2025 Budget Adopt operationalizes new services.
- **February 2025** – New fees implemented.

Lakes Update



Vancouver Lake Management Plan: Version 1

Clark County, Washington

Prepared for
Clark County

Prepared by
Herrera Environmental Consultants, Inc.

In Association with
LimnoTech
Kearns & West
AquaTechnex

August 2023



New Legislative Proviso - \$330,000



Agreement No. OTGP-2024-CICoPW-00057

ONE TIME GRANT PROGRAM AGREEMENT

BETWEEN

THE STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

AND

CLARK COUNTY - PUBLIC WORKS DEPARTMENT

This is a binding Agreement entered into by and between the state of Washington, Department of Ecology, hereinafter referred to as "ECOLOGY," and Clark County - Public Works Department, hereinafter referred to as the "RECIPIENT," to carry out with the provided funds activities described herein.

GENERAL INFORMATION

Project Title:	Vancouver LCMP Implementation
Total Cost:	\$330,000.00
Total Eligible Cost:	\$330,000.00
Ecology Share:	\$330,000.00
Recipient Share:	\$0.00
The Effective Date of this Agreement is:	07/01/2023
The Expiration Date of this Agreement is no later than:	06/30/2025
Project Type:	Ecology Grant

Project Short Description:

The RECIPIENT will begin implementing the recommendations from the Vancouver Lake Cyanobacteria Management Plan (LCMP) to address cyanobacteria blooms in Vancouver Lake.



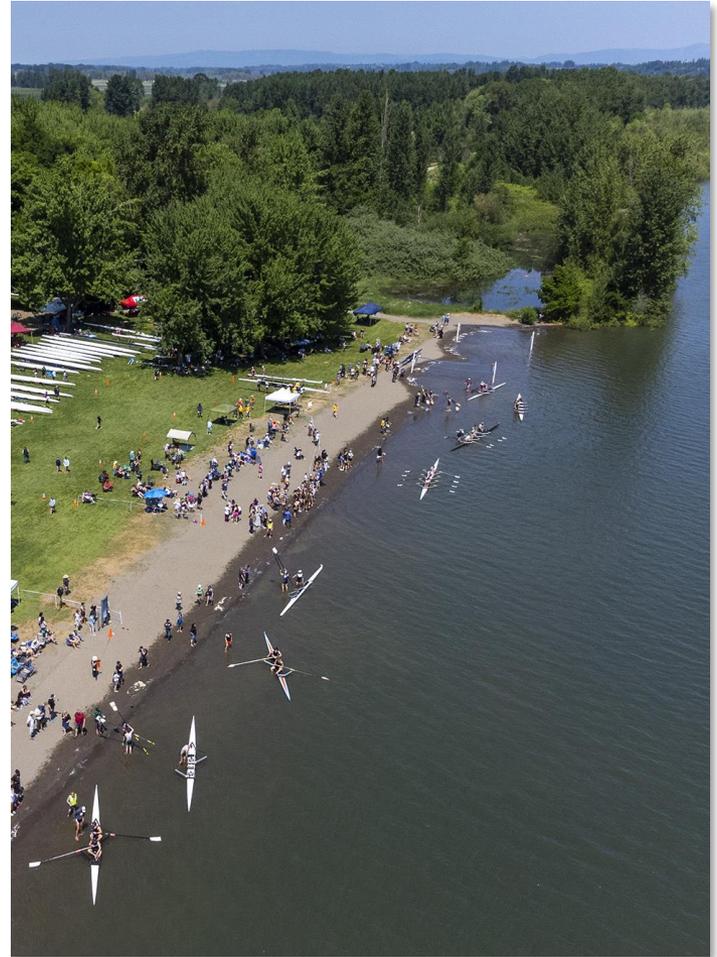
Scope of Work – County Coordination

1. Public Participation Plan & Technical Advisory Group
2. Framework for Special District
3. Beach Algaecide Treatment Plan
4. Flushing Enhancements
5. Watershed Implementation



Beach Management Plan

- Planning
- Permitting
- Mobilization
- Implementation
- Monitoring



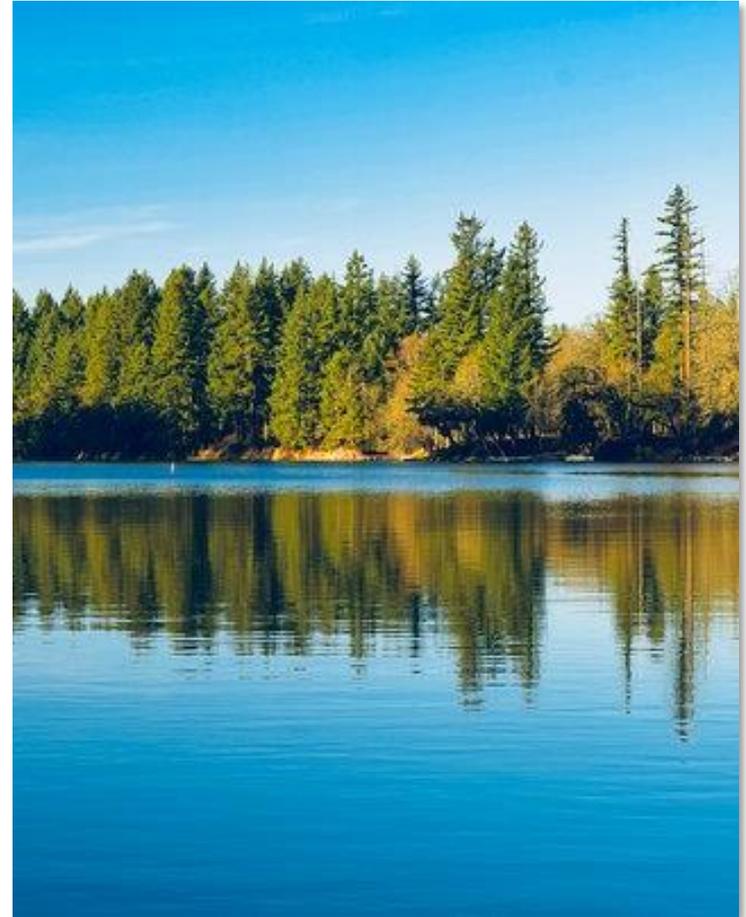
Flushing Enhancements

- Evaluate alternatives
- Select preferred alternative
- Refine modeling
- Conceptual design
- Cost estimates



Timeline & Professional Services

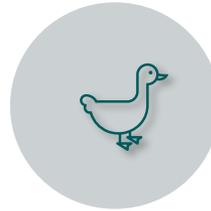
- **Implement by June 30, 2025**
- **Competitive RFP**
closed February 14
- **Consultant Selection**
Final contract approved by
Council May 28, 2024



County-led Watershed Implementation



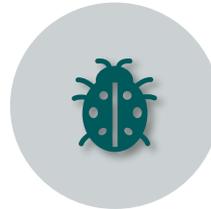
DNA testing to identify human, livestock, dog, horse, or goose sources of pollution.



Geese Deterrent research



Stormwater inventory, assessment, retrofit plan



Invasive species survey, mapping & follow-up treatment

Technical Advisory Group Meeting

Wednesday June 12 at Port of Vancouver from 10am-12pm

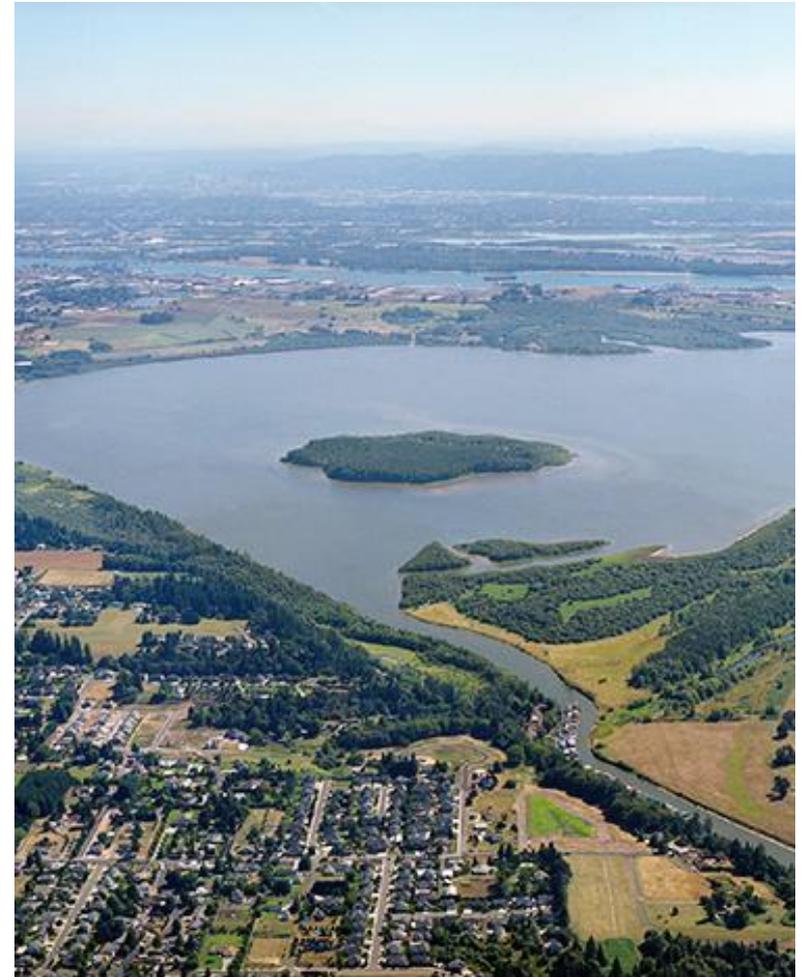
Meeting Goals:

- Guidance for TAG Participation
- Background on Phase I
- Scope of Phase 2
- Focus on Beach Management Plan for 2025

25+ People RSVP'd

Friends of Vancouver Lake, Rowing Club, Port of Vancouver, Ridgefield, Vancouver, County, WDFW, Ecology, Watershed Alliance, etc.

Next meeting(s): Focus on Flushing Enhancement in September, January, and May



RFP Updates



RFPs / Professional Services Contracts



Vancouver Lake Management Plan Implementation – *Done!*



Stormwater Code and Manual Update – *In progress*



Bioretention Maintenance Plan – *In progress*



Design Services Support & Stormwater Management Action Plan - *November 2024*

Other



New Permit Requirements in 2024

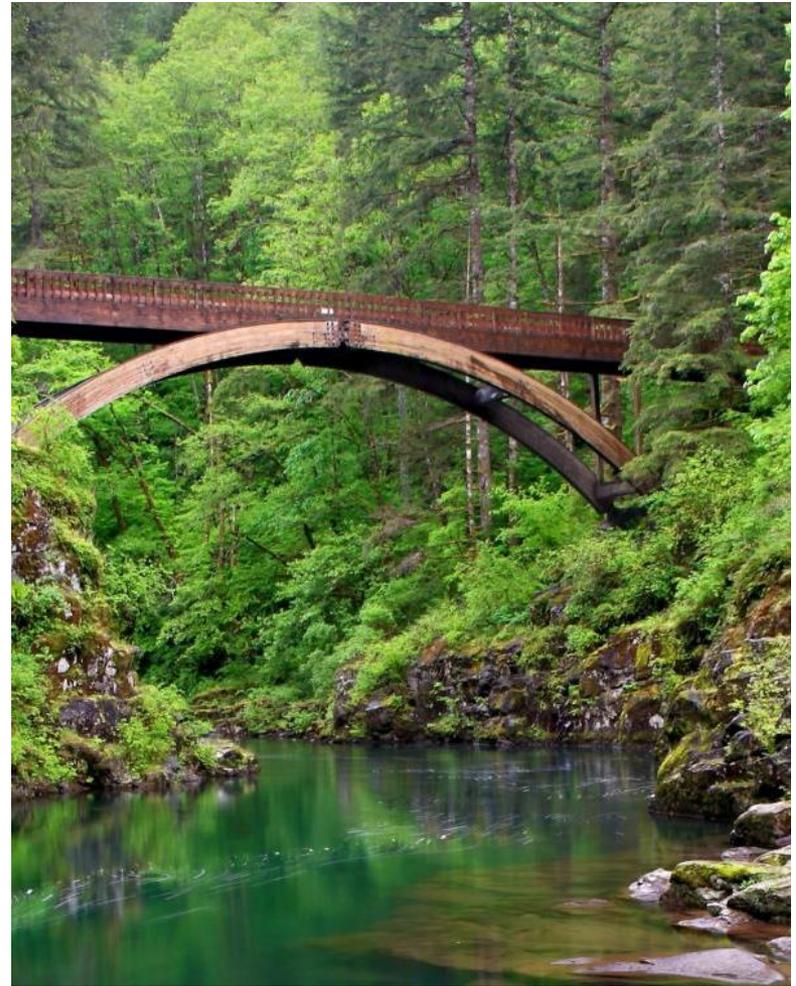
- March 2025 – Interdepartmental Agreements.
- June 2025 – Stormwater Manual Update.
- December 2026 – PFAS and Fire Districts.
- December 2026 – Overburdened Community Public Involvement.
- July 2027 – Sweeping Program Updates.
- July 2027 – SMAP Catchment Scale Plan.
- December 2027 – PCB IDDE, BMPs, Education and Outreach.
- March 2028 – Coordination with Long-Range Plans.
- December 2028 – Tree Canopy Mapping and Goals.

Staff Liaison Report



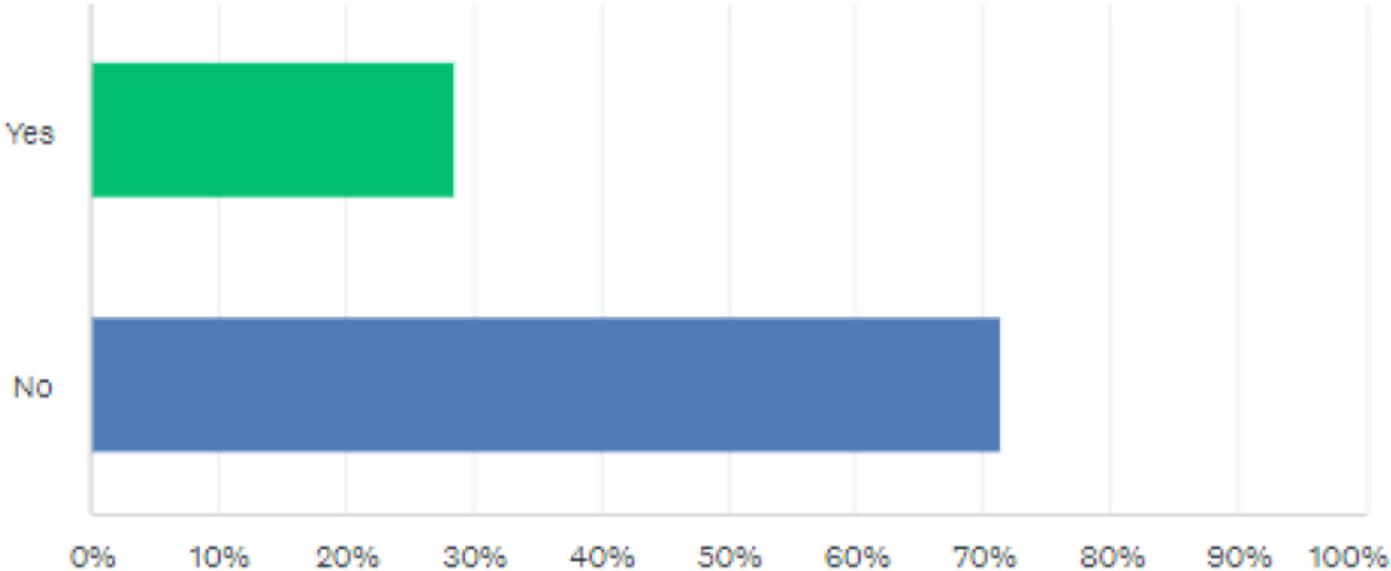
Overview

- CWC Survey Results
- July 30, 2024 - Bus Tour
- August 21st – 2023 Annual Report & 2024 Work Session



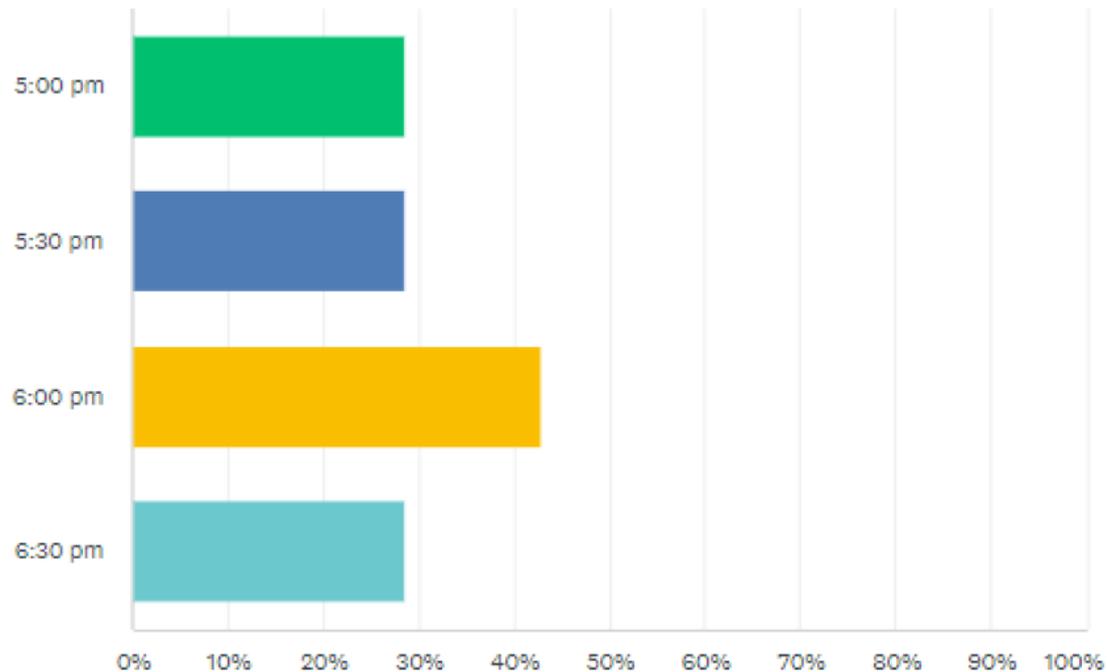
For 2024 – would you like to change CWC to monthly?

- 2 - Yes
- 5 - No

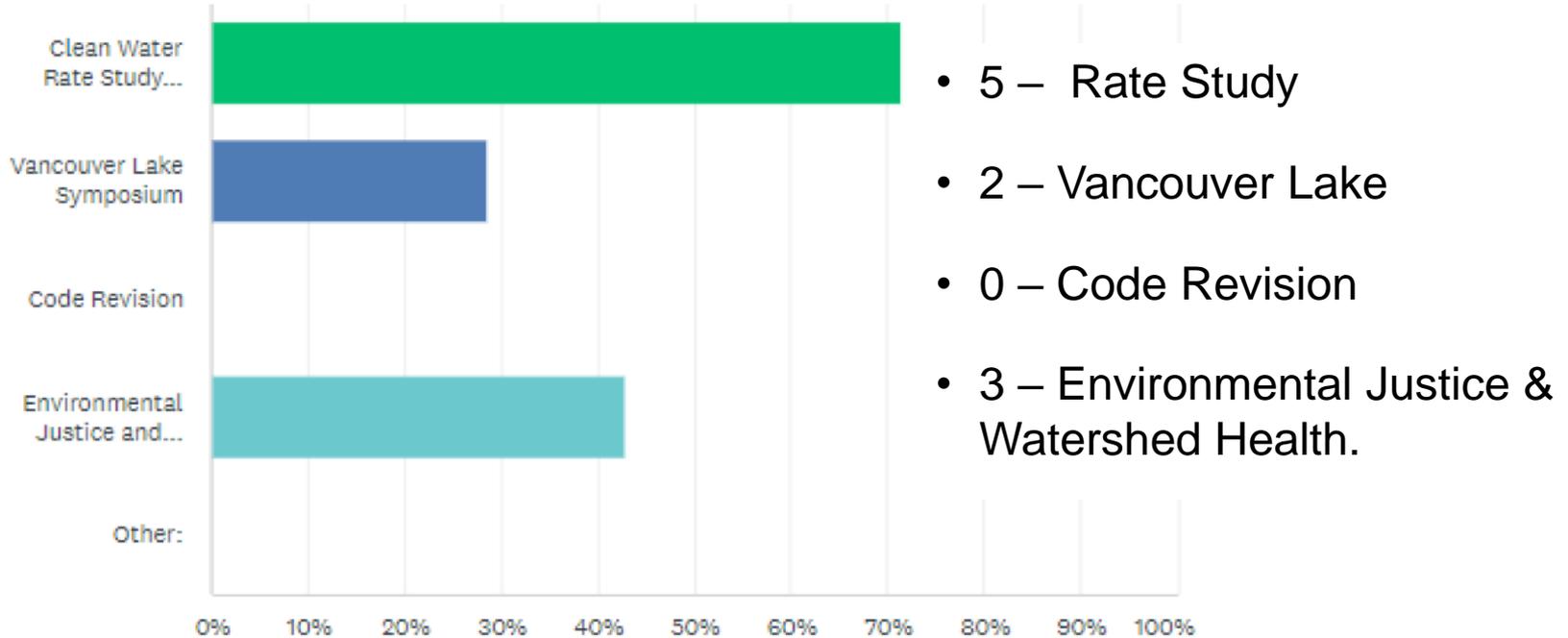


What time would you like the meeting to start?

- 2 – 5:00 p.m.
- 2 – 5:30 p.m.
- 3 – 6:00 p.m.
- 2 – 6:30 p.m.



What Work Group(s) do you want to join?



July Bus Tour!



Dates: Tuesday July 30, 2024



Unfinished Business / Actions



Rate Study Work Group



CLARK COUNTY WASHINGTON

PUBLIC WORKS
CLEAN WATER COMMISSION

www.clark.wa.gov

1300 Franklin Street
PO Box 9810
Vancouver, WA 98666-9810
564.397.5267

April 19, 2024

Clark County Council
1300 Franklin St.
Vancouver, WA 98666

Dear Clark County Council,

The Clark County Clean Water Commission (the Commission) wants to thank you for your time and consideration on what clean water services are most important to you and the ratepayers in Clark County. As a Commission, we recognize that the Council is nearing a critical decision point regarding the current Clean Water fee and what services the Clean Water Division will provide into the future.

While the Clean Water fee has previously helped the County comply with stormwater permit requirements under the Phase I National Pollutant Discharge Elimination System (NPDES) in the past, the fee has not kept pace with the County's increasing permit requirements or the need to address emerging risks that threaten our stormwater system.

Aging infrastructure, a changing climate, and rapid population growth are just some of the major risks we must consider when deciding what services, the Clean Water Division will provide into the future, and how much funding is needed to provide these vital services.

The County's 20-year population projection is set to exceed 700,000 residents by 2045, and understanding the County's infrastructure shortfalls in projected growth areas will be paramount. At the same time, the County's resources to manage existing stormwater infrastructure are becoming more stressed, which can increase flooding risk and other challenges with degraded water quality. With the Department of Commerce's new mandate to address climate change as part of the County's Comprehensive Plan update, it is important that the Clean Water Division is simultaneously planning to manage stormwater and provide clean water services in a manner that will systemically ensure that critical infrastructure such as hospitals, emergency services, schools, bridges, roads, and homes, are not at risk during intense periods of rain that overwhelm aged and undersized stormwater systems.

Priority clean water services

1. **Providing Mandated, Regulatory Services**
2. **Inspection, Maintenance, and Operation of Infrastructure**
3. **Proactive Asset Management & Longer-term Capital Plan**
4. **Assistance in development, construction, building process**
5. **Lake Management activities**
6. **Additional monitoring services**
7. **Education, outreach, and technical assistance**



Environmental Justice & Watershed Health



Save the Date

Vancouver Lake Symposium

9 a.m. - 4 p.m.
Thursday, Oct. 17

Vancouver Water Resources Education Center



CLARK COUNTY
WASHINGTON
PUBLIC WORKS
CLEAN WATER

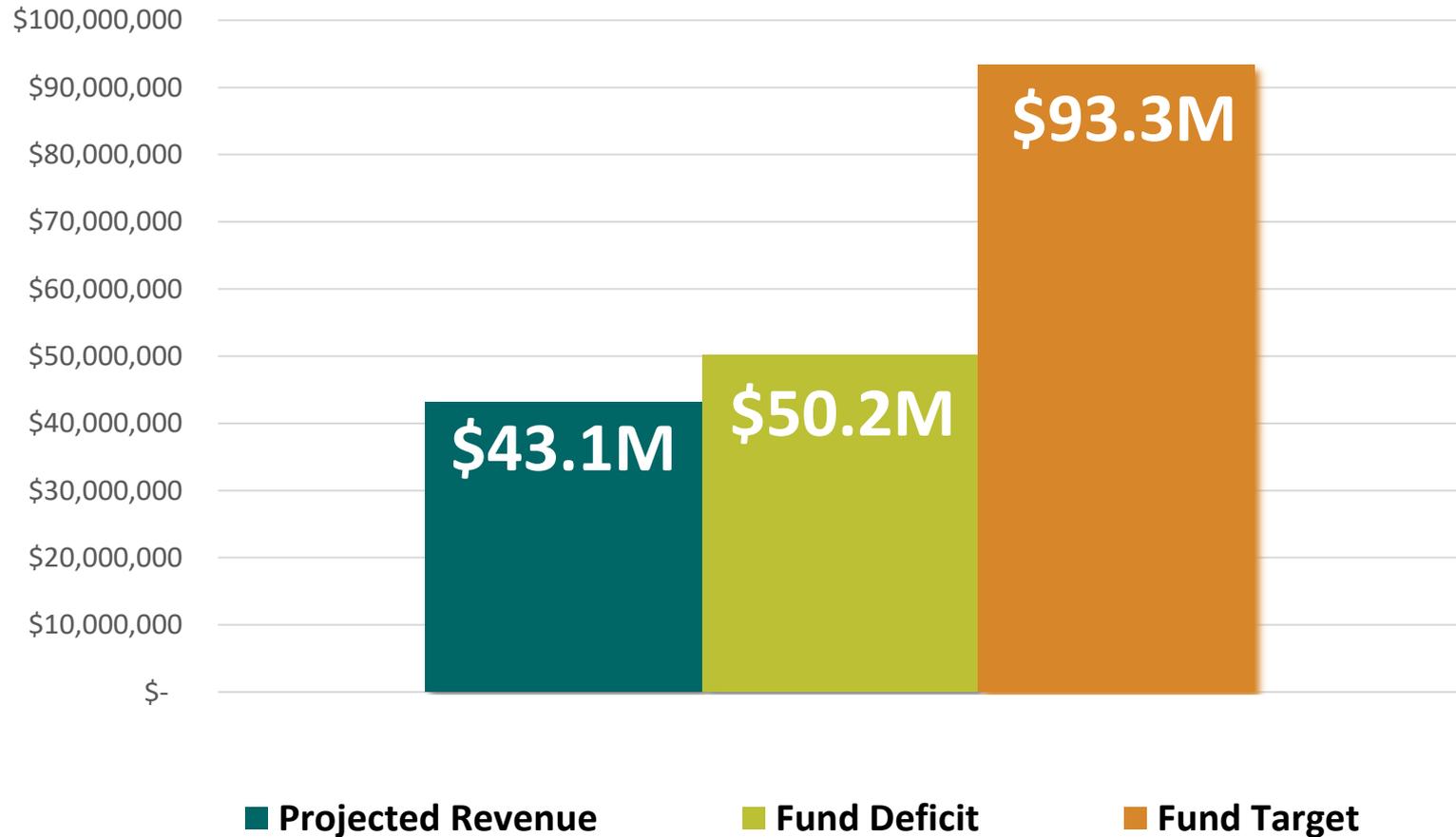
Roundtable Discussion Commissioner's Comments



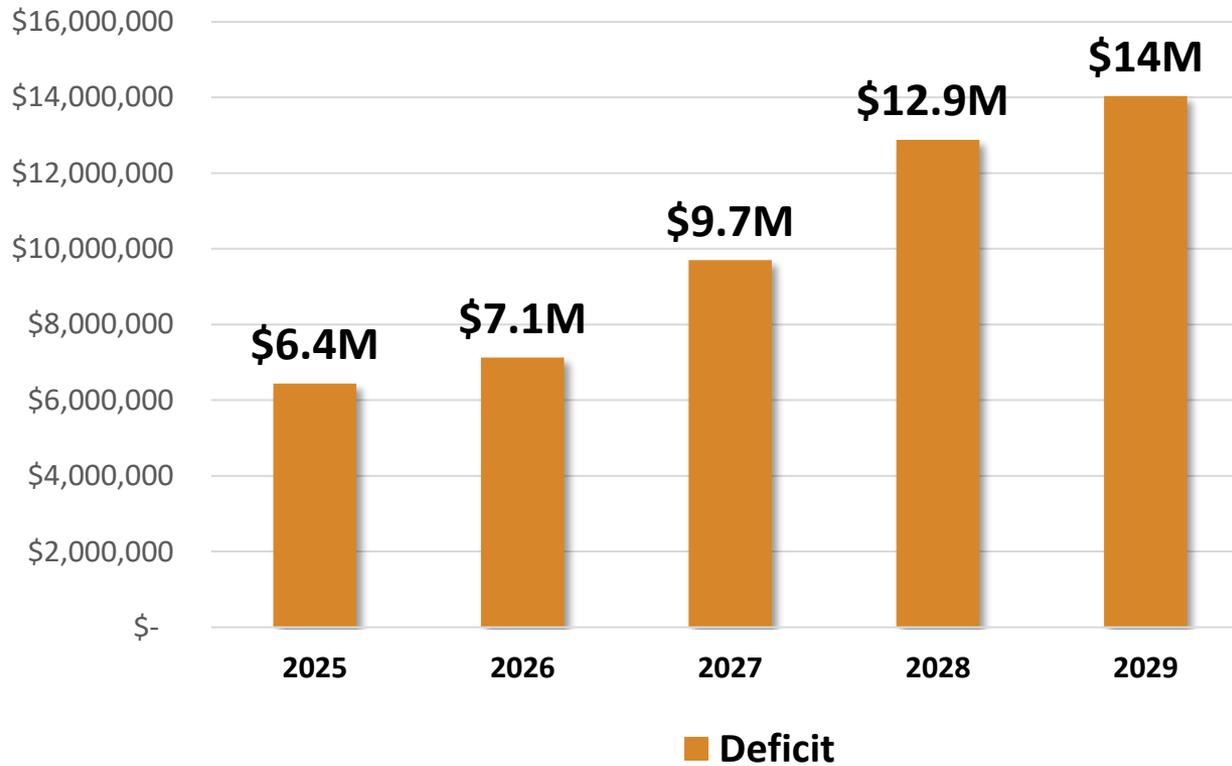
Appendix Slides



Revenue, Fund Deficit & Target 2025 -2029



Fund Deficit Summary



Capital Facilities Service Gaps

Capital Facilities	\$16,296,000
Advanced Mitigation Site	\$600,000
Asset Management Program Planning	\$635,600
Capital Infrastructure maintenance >\$25K	\$400,000
Capital Program Implementation & Stormwater Development support	\$630,000
Capital Program Planning	\$686,600
Capital, Asset Management & Monitoring Management	\$737,900
Expanded Watershed Capital Retrofits	\$1,100,000
Frasier Pond Cleanout - Failing Infrastructure Repair	\$400,000
Grants Coordination	\$595,900
Identified capital repair needs for failing infrastructure	\$400,000
Large scale neighborhood drainage and flooding improvements	\$300,000
Large scale stormwater projects in collaboration with County Road and Parks projects	\$500,000
Major repair or replacement of aging pipe infrastructure	\$7,600,000
Major repair or replacement of aging treatment/flow control infrastructure	\$660,000
Philbrook Farms - Failing Infrastructure Repair	\$400,000
Stormwater Maintenance Bond Study	\$150,000
Velvet Acres - Failing Infrastructure Repair	\$500,000

Capital Facilities Service Gaps

No.	Service Gap	Service Justification
1	Advanced Mitigation Site	(1) Identify site to meet Public Works Mitigation needs into the future
2	Asset Management Program Planning	1) Develop Pipe Asset Management Plan (2) Support Facility Asset Management (3) Support implementation of Roads/Construction/Engineering + Parks Service Agreements (4) Supervise public facility inspectors
3	Capital Infrastructure maintenance >\$25K	(1) Maintain infrastructure that requires capital construction >\$25K but is not currently programmed in 6-year Stormwater Capital Plan.
4	Capital Program Implementation & Stormwater Development support	(1) Increased stormwater infrastructure technical assistance during Development Engineering Review and Construction (2) Oversight of Stormwater Code & Manual (3) Design/engineering/contracting of capital projects. (4) Respond to community infrastructure complaints (5) Improved engineering review for stormwater infrastructure construction plans for development projects
5	Capital Program Planning	(1) 20-year Capital Plan Development to access REET II Funding (2) Support 6-year Capital Plan (3) Support for capital project implementation (4) Supervise Capital Program Staff
6	Capital, Asset Management & Monitoring Management	(1) Supervision of Capital, Asset Management, and Monitoring program leads.
7	Expanded Watershed Capital Retrofits	(1) Expanded implementation of capital projects to improve water quality. (2) Begin implementation of over 50+ projects that are not currently programmed. (3) Implementation of watershed projects to improve lake water quality (4) Support lake restoration/address lacking areas; this is in excess of projects needed to meet Phase 1 stormwater permit requirements
8	Frasier Pond Cleanout - Failing Infrastructure Repair	(1) Repair faulty, malfunctioning infrastructure inherited by county

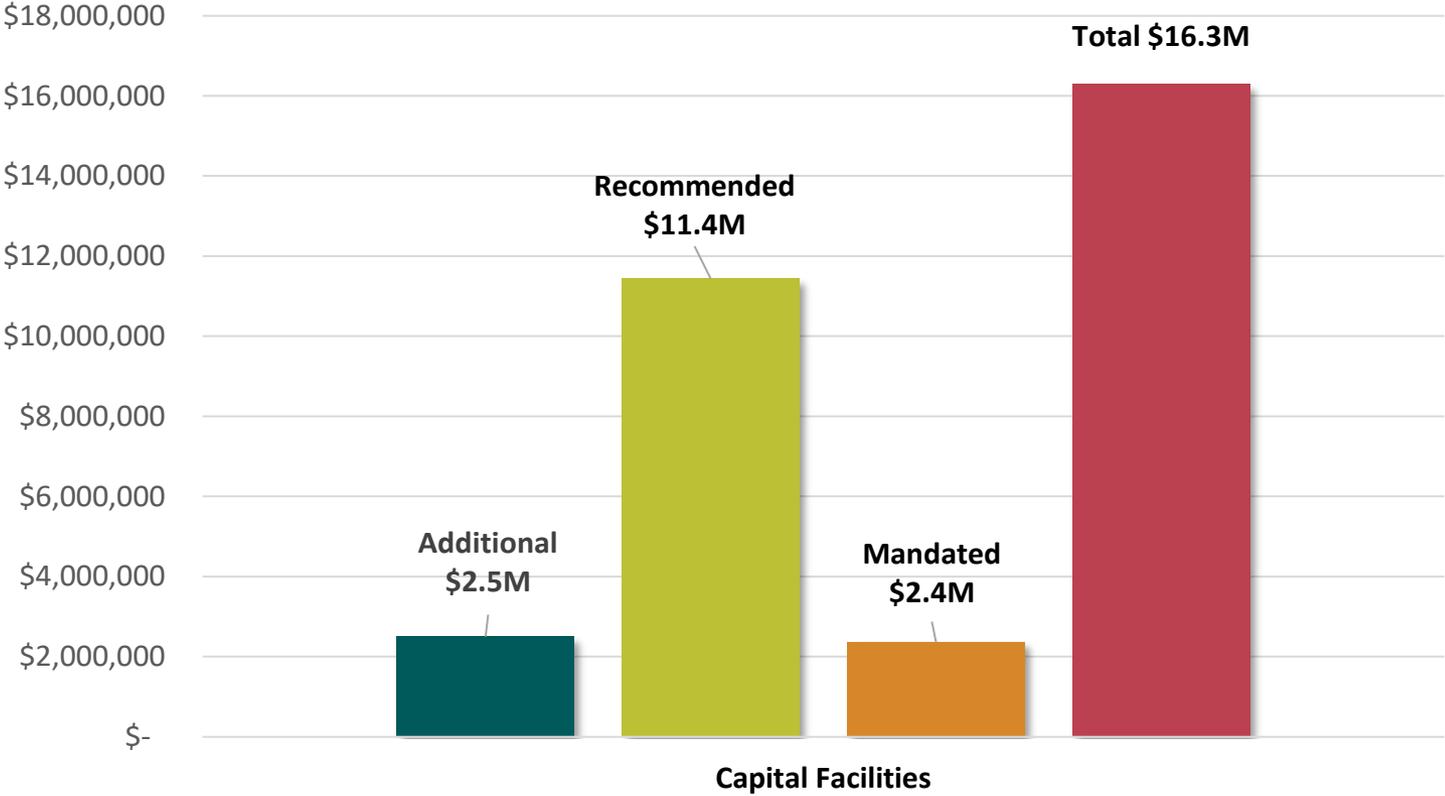


Capital Facilities Service Gaps

No.	Service Gap	Service Justification
9	Grants Coordination	(1) Capacity to pursue external grant funding (2) Grant contract management (3) Goal to increase grant funding by 3x
10	Identified capital repair needs for failing infrastructure	(1) Repair faulty, malfunctioning infrastructure inherited by county not historically addressed.
11	Large scale neighborhood drainage and flooding improvements	(1) Implementation of large -scale neighborhood drainage improvements (2) Begin implementation of 9+ identified projects.
12	Large scale stormwater projects in collaboration with County Road and Parks projects	(1) Begin implementation of 4+ identified projects to leverage large-scale stormwater, roads, and parks projects together
13	Major repair or replacement of aging pipe infrastructure	(1) Implementation of pipe repairs/replacements in response to critical infrastructure issues identified during inspections. (2) 2% repair/replacement starting in 2028 to achieve ~10% replaced in 5 years; 100% repaired/replaced in 50 years
14	Major repair or replacement of aging treatment/flow control infrastructure	(1) Funding for major repair/replacement of treatment/flow control infrastructure.
15	Philbrook Farms - Failing Infrastructure Repair	(1) Repair faulty, malfunctioning infrastructure inherited by county.
16	Stormwater Maintenance Bond Study	(1) Assess current stormwater bond rates for infrastructure (2) Identify appropriate bond rates to ensure infrastructure is fixed and working properly before warranty periods are end.
17	Velvet Acres - Failing Infrastructure Repair	(1) Repair faulty, malfunctioning infrastructure inherited by county



Capital Facilities – Fund Deficit



Facilities Maintenance & Operations Service Gaps

Facilities Maintenance & Operations	\$21,458,500
Asset photo inventory	\$100,000
Drywell inspections and maintenance	\$654,000
Maintenance of 96 clean water parcels that do not serve a stormwater function	\$750,000
Mandatory Quarterly Sweeping	\$2,700,000
Mapping & Inventory	\$567,500
Noxious weed management - Vehicle	\$74,000
Noxious weed management on Clean Water Parcels	\$655,300
Pervious roadway maintenance	\$106,000
Pervious Sidewalk maintenance	\$426,700
Pervious Sidewalk maintenance - Sweeper	\$250,000
Phosphorous removal cartridges in stormwater facilities	\$348,000
Pipe Asset Management - Inspections	\$2,316,200
Pipe Asset Management - Inspections - Software	\$250,000
Pipe Asset Management - Inspections - Vehicle	\$335,000
Required Public Facility Inspections	\$1,225,800
Required Public Facility Inspections - Vehicle	\$180,000
Restore stormwater ponds to design storage capacity	\$2,000,000
Routine bioretention maintenance	\$2,475,000
Routine maintenance and repair for pond and swale facilities	\$5,300,000
Routine stormwater infrastructure maintenance and repair - Vehicle	\$495,000
Stormwater pond sediment survey	\$150,000
Sweeping standards and Enhanced Maintenance Plan	\$100,000

Facilities Maintenance & Operations Service Gaps

No.	Service Gap	Service Justification
1	Asset photo inventory	(1) Photo documentation of all public stormwater facility assets (2) Creates photo asset inventory in Cartegraph
2	Drywell inspections and maintenance	(1) Proactive inspection and maintenance of 1600 drywells for the first time in Clark County history. (2) Routine drywell inspection and maintenance
3	Maintenance of 96 clean water parcels that do not serve a stormwater function	(1) Proactively maintain 96 parcels owned by clean water that currently receive maintenance on a complaint driven basis.
4	Mandatory Quarterly Sweeping	(1) Remain in compliance with Department of Ecology's new street sweeping requirements (2) Implement mandatory quarterly sweeping
5	Mapping & Inventory	(1) Address backlog of unmapped new home constructions (300+) and make sure new homes are mapped (2) Map stormwater outfalls and catchment treatment areas (3) Provide additional capacity to address annual increase in facilities (8% increase annually).
6	Noxious weed management - Vehicle	(1) Noxious weed management on 96 clean water parcels that aren't currently maintained
7	Noxious weed management on Clean Water Parcels	(1) Noxious weed management on 96 clean water parcels that aren't currently maintained
8	Pervious roadway maintenance	(1) Implement maintenance of pervious roadways (2) Doubles current level of sweeping to meet minimum level of service.



Facilities Maintenance & Operations Service Gaps

No.	Service Gap	Service Justification
9	Pervious Sidewalk maintenance	(1) Implement routine maintenance of pervious sidewalks.
10	Pervious Sidewalk maintenance - Sweeper	(1) Implement routine maintenance of pervious sidewalks. (2) Procure a sidewalk sweeper unit
11	Phosphorous removal cartridges in stormwater facilities	(1) Increase removal of phosphorous in stormwater facilities (2) Utilize a more ergonomically safe filter asset in stormwater infrastructure (much lighter than current filter asset used) (3) upgrade ZPG to Phosphosorb cartridges for nutrient treatment.
12	Pipe Asset Management - Inspections	(1) Proactive inspection of 500 miles of underground pipe for the first time in Clark County history
13	Pipe Asset Management - Inspections - Software	(1) Proactive inspection of 500 miles of underground pipe for the first time in Clark County history (2) enclosed drainage software for pipe inspection team
14	Pipe Asset Management - Inspections - Vehicle	(1) Proactive inspection of 500 miles of underground pipe for the first time in Clark County history (2) enclosed drainage inspection van for pipe inspection team (3) pick up truck for pipe inspection team
15	Required Public Facility Inspections	(1) Dedicated resources for annual public stormwater facility inspections (2) Additional resources for inspections and technical assistance during site development and build-out process (3) More infrastructure end-of-warranty inspections to verify infrastructure is working (4) Dedicated resources for construction stormwater inspections.
16	Required Public Facility Inspections - Vehicle	(1) Dedicated resources for annual public stormwater facility inspections (2) Additional resources for inspections and technical assistance during site development and build-out process (3) More infrastructure end-of-warranty inspections to verify infrastructure is working (4) Dedicated resources for construction stormwater inspections.

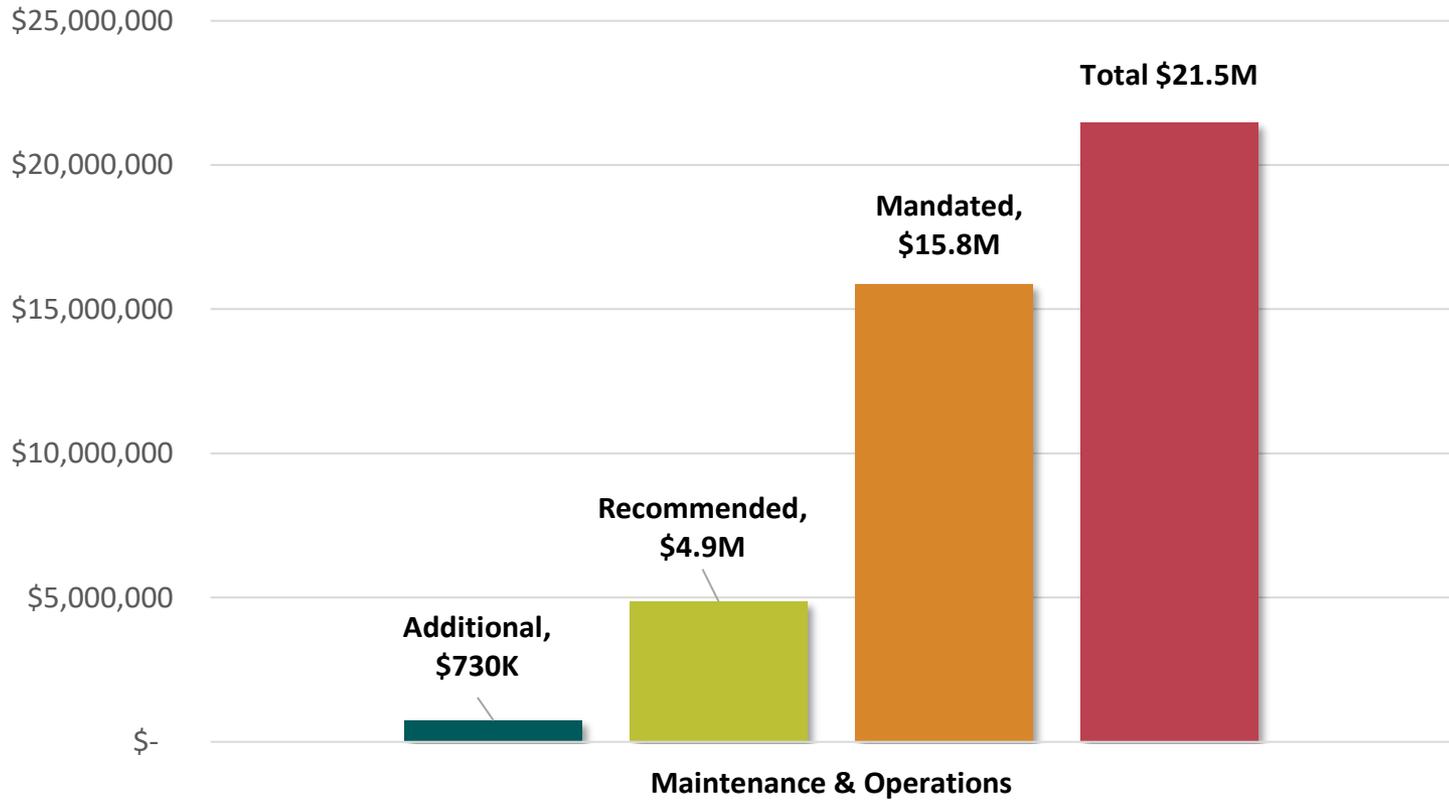


Facilities Maintenance & Operations Service Gaps

No.	Service Gap	Service Justification
17	Restore stormwater ponds to design storage capacity	(1) Restore ponds that need large-scale sediment removal
18	Routine bioretention maintenance	(1) Remain in compliance with Department of Ecology's stormwater maintenance requirements. (2) Bioretention cell routine and defect maintenance (3) Triple existing effort to reach minimum LOS (6-8 visits annually). Currently only completing 2 visits.
19	Routine maintenance and repair for pond and swale facilities	(1) Remain in compliance with Department of Ecology's stormwater maintenance requirements. (2) Required routine maintenance and defect repair for pond and swale facilities (3) Double existing maintenance effort. Currently spending \$1M on routine maintenance. Minimum LOS is 4 visits/year. Currently completing only 2; historically completed 6 annually.
20	Routine stormwater infrastructure maintenance and repair - Vehicle	(1) Remain in compliance with Department of Ecology's stormwater maintenance requirements.
21	Stormwater pond sediment survey	(1) Survey the sediment levels in 500 ponds that are aging and reaching critical maintenance milestones to avoid infrastructure failure and higher costs associated with deferred maintenance
22	Sweeping standards and Enhanced Maintenance Plan	(1) Remain in compliance with Department of Ecology's new street sweeping requirements (2) Develop and publish sweeping standards and Enhanced Maintenance Plan



Maintenance & Operations – Fund Deficit



Monitoring & Assessment Service Gaps

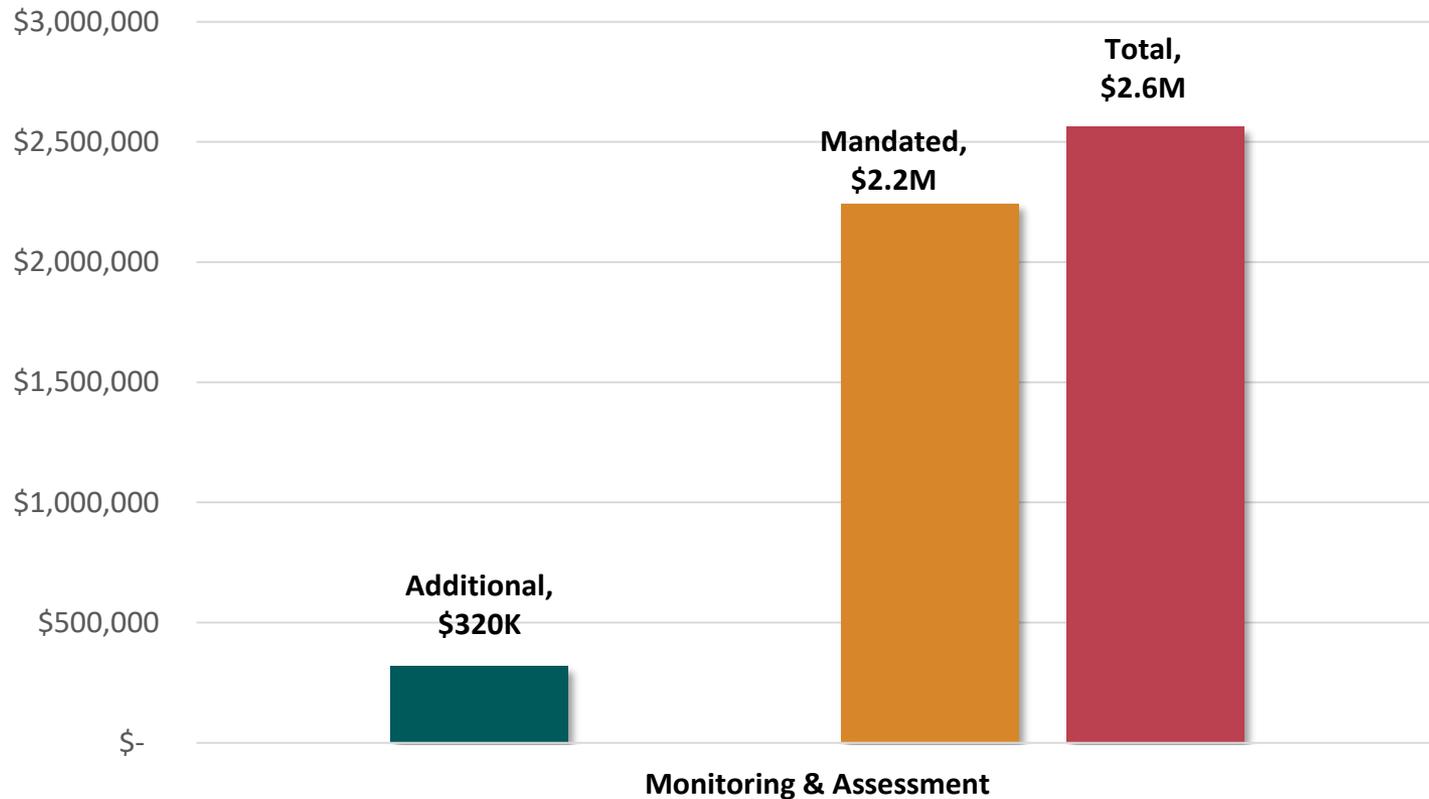
Monitoring & Assessment	\$2,562,500
Laboratory Contract Expansion	\$318,000
Monitoring Program Supervisor	\$614,000
Water Quality Monitoring	\$1,466,500
Water Quality Monitoring - Vehicle	\$164,000

Monitoring & Assessment Service Gaps

No.	Service Gap	Service Justification
1	Laboratory Contract Expansion	(1) More laboratory resources for TMDL, Lakes, Stormwater, Maintenance, Compliance assessment, Pollution Identification & Correction Studies, etc.
2	Monitoring Program Supervisor	(1) Supervision, leadership, and oversight of monitoring program. (2) Manages oversight of Lower Columbia Urban Streams program.
3	Water Quality Monitoring	(1) Implement Clark County's Stream Health Report Monitoring, Hydrology Monitoring, and Lower Columbia Urban Streams Monitoring. (2) Increased project support for TMDLs, Lake plans/ILA, stormwater maintenance studies, pollution source identification.
4	Water Quality Monitoring - Vehicle	(1) Implement Clark County's Stream Health Report Monitoring, Hydrology Monitoring, and Lower Columbia Urban Streams Monitoring



Monitoring & Assessment – Fund Deficit



Stormwater Planning & Coordination Service Gaps

Stormwater Planning & Coordination	\$3,840,900
NPDES Enforcement Support, Complaint Response	\$567,500
Private Stormwater Facility Inspections	\$612,900
Private Stormwater Facility Inspections - Vehicle	\$90,000
Source Control & Pollution Prevention	\$612,900
Source Control & Pollution Prevention - Vehicle	\$90,000
Stormwater Code and Manual Update	\$150,000
Stormwater Management Action Planning	\$300,000
Stormwater Permit Planning, Management & Reporting	\$595,900
Stormwater training	\$250,000
Tree canopy mapping, goals, and policies	\$200,000
Watershed Stormwater Planner	\$371,700

Stormwater Planning & Coordination Service Gaps

No.	Service Gap	Service Justification
1	NPDES Enforcement Support, Complaint Response	(1) Respond to ERTS Complaints (2) Address erosion and sediment issues (3) IDDE (4) Outfall screening (5) Validating Clean Water fee disputes
2	Private Stormwater Facility Inspections	(1) Resources to inspect and provide technical assistance on the 1800+ private stormwater facilities in Clark County (2) Currently have 2 staff covering 900+ facilities each (3) total number of facilities increases by 8-10% annually.
3	Private Stormwater Facility Inspections - Vehicle	See above
4	Source Control & Pollution Prevention	(1) Source Control inspections (2) Pollution prevention Assistance (3) Develop new required PFAS survey, inventory, and education (4) Develop new PCB education and implementation
5	Source Control & Pollution Prevention - Vehicle	See above
6	Stormwater Code and Manual Update	(1) Required update Clark County's Stormwater Code and Manual by 2026
7	Stormwater Management Action Planning	(1) Complete required stormwater management action planning (SMAP)
8	Stormwater Permit Planning, Management & Reporting	(1) Stormwater Permit Manager to submit required reporting to Ecology to remain in compliance

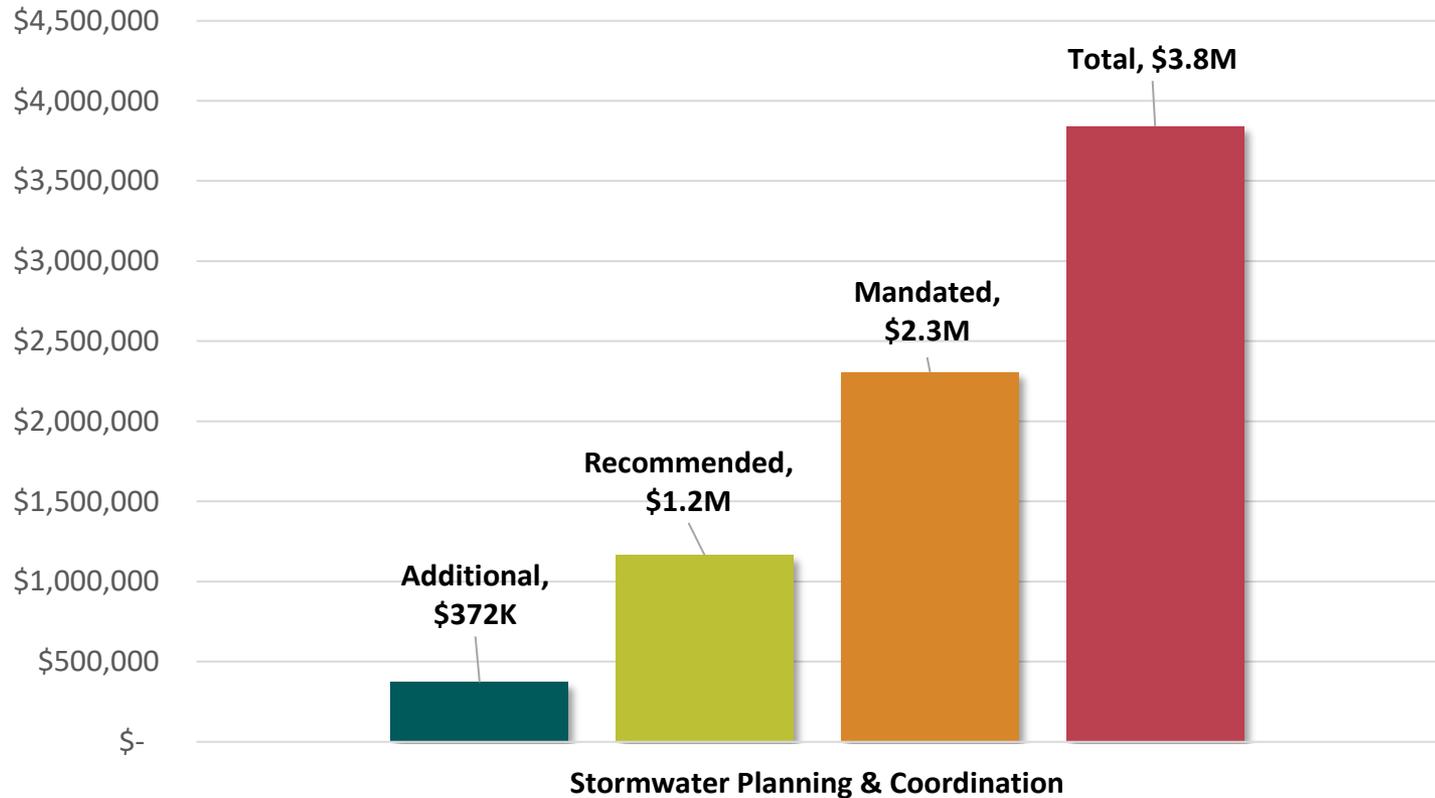


Stormwater Planning & Coordination Service Gaps

No.	Service Gap	Service Justification
9	Stormwater training	(1) Provide training for Clark County staff (outside of Clean Water Division) on stormwater development engineering requirements, inspection, constructions, operations and maintenance requirements.
10	Tree canopy mapping, goals, and policies	(1) Complete new permit requirement to map all tree canopy in Clark County and establish tree canopy goals and policies.
11	Watershed Stormwater Planner	(1) Lead required SMAP Assessment and Planning (2) Serve as Clark County TMDL Lead (3) Participate in Salmon Recovery Efforts (4) Coordinate with Legacy Lands on restoration activities (5) Work with Lake Coordinator & Nature Based Infrastructure staff



Stormwater Planning & Coordination Fund Deficit



Public Information & Outreach Service Gaps

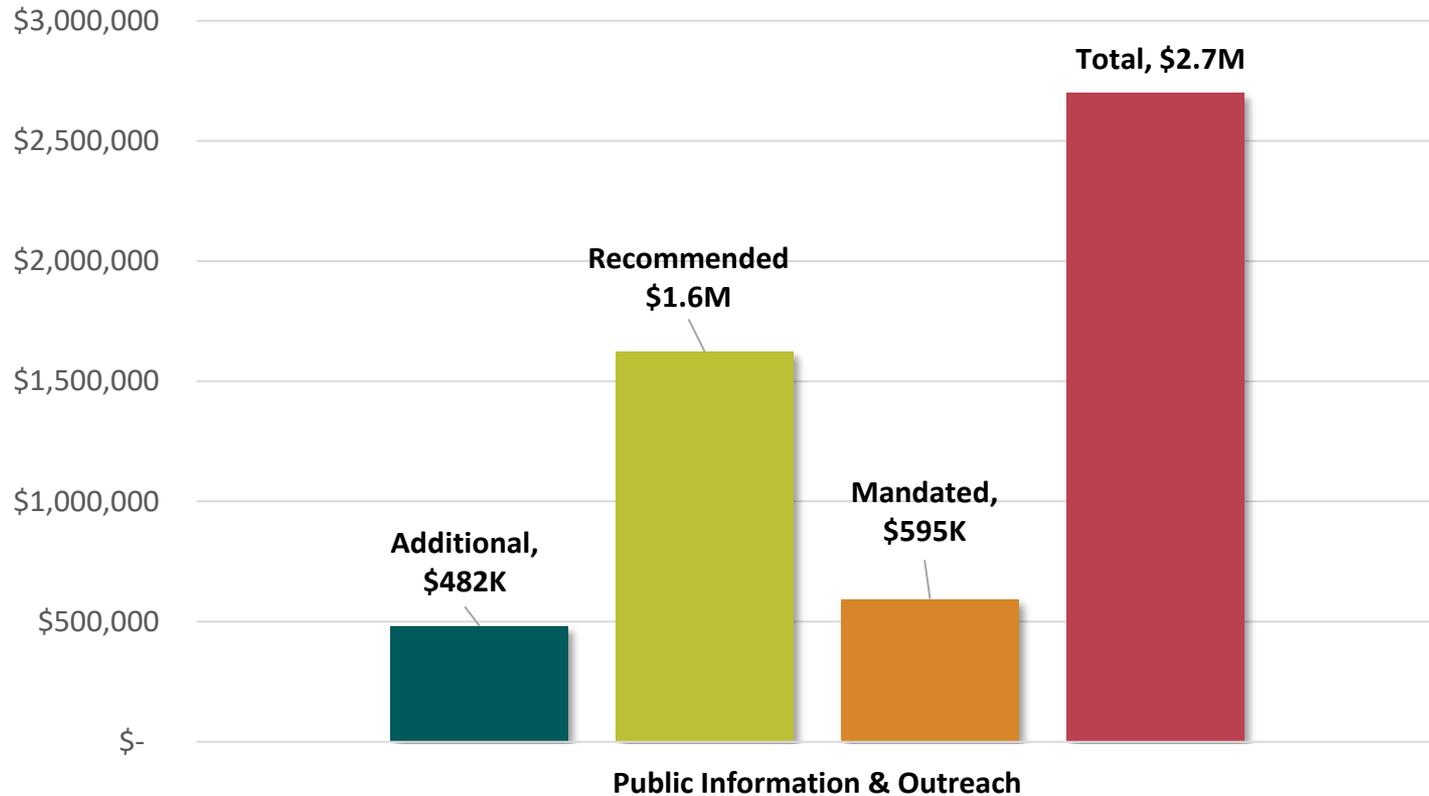
Public Information and Outreach	\$2,700,000
Education & Outreach Lead	\$795,700
Education & Outreach Program Management	\$828,400
Education and Outreach support	\$594,100
Public Involvement for Community Engagement and Inclusion	\$481,800

Public Information & Outreach Service Gaps

No.	Service Gap	Service Justification
1	Education & Outreach Lead	(1) Implement Environmental Outreach & Education programs (2) Environmental Education Outreach - More outreach events, tabling, partnerships, door-to-door, stewardship, increased number of people we reach.
2	Education & Outreach Program Management	(1) Management of Education & Outreach program.
3	Education and Outreach support	(1) Clark County attendance at public events to provide education and outreach (2) Hosting more volunteer stewardship activities (3) More opportunities to speak at schools or other community events (4) attendance at neighborhood associations or HOA meetings (5) Support digital marketing, social media, and website updates (6) Developing outreach materials (7) Responding to community requests for information
4	Public Involvement for Community Engagement and Inclusion	(1) Administrative support for Community Engagement & Inclusion (2) Resources for more public involvement, open houses, surveys, education materials, and website updates.



Public Information & Outreach – Fund Deficit



Administration Service Gaps

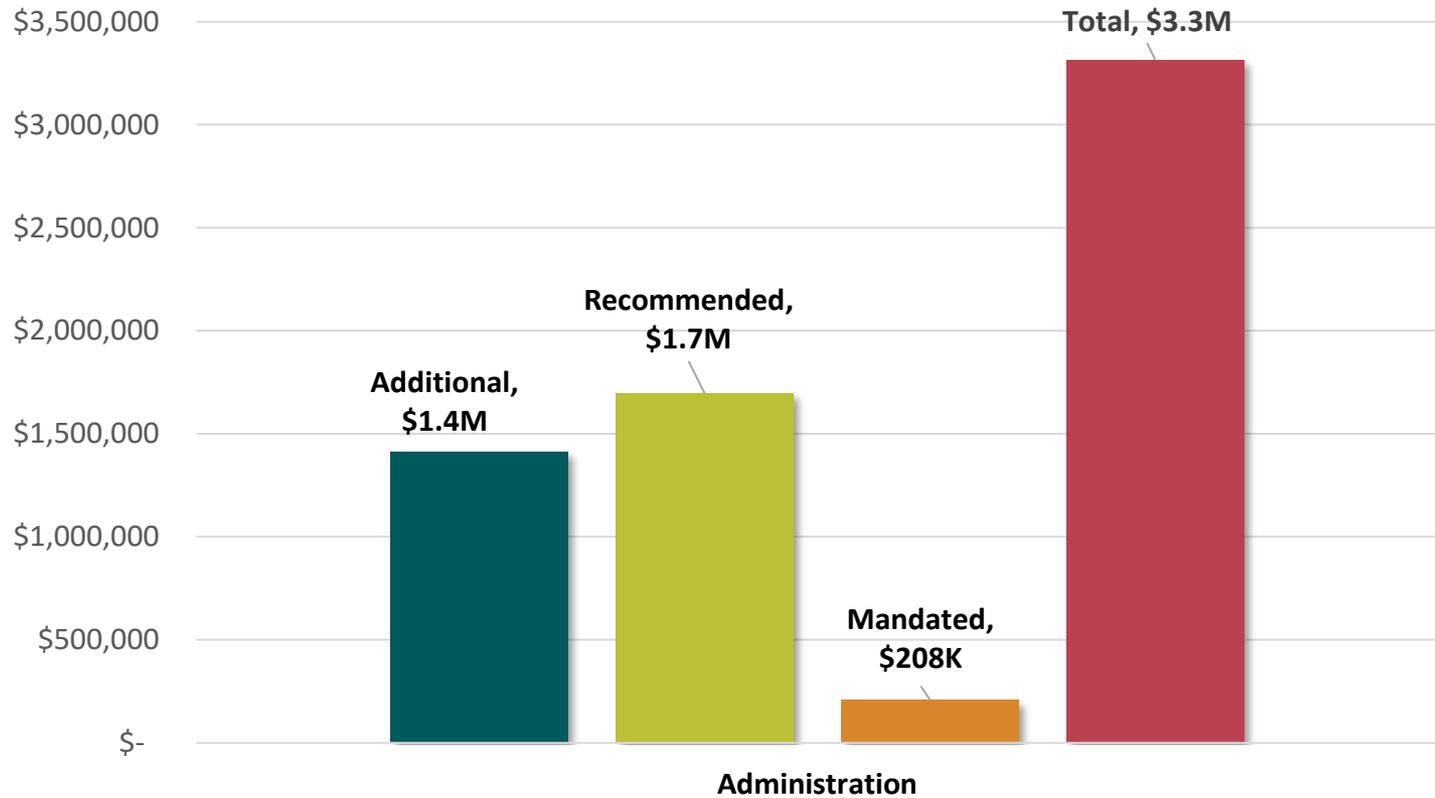
Administration	\$3,315,200
Lake Management Coordination	\$595,900
Lake Treatment (In-lake)	\$1,000,000
Nature Based Solutions Capital Restoration Planning	\$486,200
Office Reconfiguration	\$100,000
Program Assistance	\$375,000
Public Involvement, Environmental Justice, and Clean Water Commission	\$550,500
Staff Professional Development & Training	\$207,600

Administration Service Gaps

No.	Service Gap	Service Justification
1	Lake Management Coordination	(1) Dedicated staff to provide County Lake Management representation and leadership for Vancouver and Lacamas Lakes. (2) Lake Management Coordinator
2	Lake Treatment (In-lake)	(1) County funding for in-lake treatment activities in Vancouver and Lacamas Lakes to implement Lacamas Interlocal Agreement & Vancouver Lake Management Plan.
3	Nature Based Solutions Capital Restoration Planning	(1) Increased delivery of nature-based wetland, floodplain, reforestation projects. (2) Lead Clark County's required tree canopy work (3) Coordinate with Legacy Lands program.
4	Office Reconfiguration	(1) Provide office space for staff to increase Clean Water Division's service delivery.
5	Program Assistance	(1) Administrative support for Clean Water Division Staff
6	Public Involvement, Environmental Justice , and Clean Water Commission	(1) Public involvement (2) Coordination of Water Commission (3) Engagement with overburdened, environmental justice communities
7	Staff Professional Development & Training	(1) Implementation of PWs staff training policy to enable professional development for Clean Water Division staff.



Administration – Fund Deficit



Clean Water Fund 4420



Enterprise fund.



Goal is Cost Recovery.



For 2023

79,309 properties billed.
0.3% increase since 2022.
Approx. \$7.6M fee revenue collected.

How are Clean Water Fees calculated?



Rate Structure = rate and how the rate is applied to different land uses in the urban and rural areas. Single-family residential lots, \$47 urban and \$35 rural charged annually.



Stormwater Rate = per unit cost for stormwater management.



Base Unit = average impervious surface area of urban single-family residential lots, 3,500 sq. ft. For fee calculation of non-residential lots resulting in fee units.



Clean Water Fee = GIS calculation considering land use designation, urban or rural, stormwater rate, and base unit.

What is the current Rate Structure?

Land Use Category	Annual Rate <i>Inside</i> the Urban Growth Area	Annual Rate <i>Outside</i> the Urban Growth Area
No. 1 Single-family residential detached	\$47.00	\$35.00
No. 2 Single-family residential large lots:		
• More than 0.5 acre to 1 acre	\$43.70	\$31.70
• More than 1 acre to 5 acres	\$40.40	\$28.40
• More than 5 acres to 20 acres	\$37.10	\$25.10
• More than 20 acres	\$33.80	\$21.80
No. 3 Multifamily residential lots	\$47.00 X number of residential units	\$47.00 X number of residential units
No. 4 Retail, commercial, churches, hospitals, airports, public or private utility installations, schools, golf courses, government structures, other public facilities, industrial, manufacturing and railroad right-of-way, county road and street right-of-way	\$47.00 X number of base units	\$35.00 X number of base units



Equity considerations



Bills over \$50 can pay in two increments.



Senior & Disabled Property Exemptions



Hardship mobile homes not billed.

Why now?



Current Fund Balance = \$13.8M.



Projected Fund Balance is diminishing;
reaches \$604,000 by 2029.



Stormwater fee rates last increased in
2015; only one increase since 2000.

Current Draft Fund Balance Policy



Operating Reserve = six weeks of budgeted operating expenditures to sustain operations between property tax collection in April and October.



Capital Reserve = the greater of \$750,000 or 5% of the expense budget in the adopted 6-year Stormwater Capital Plan.



Emergency Capital Repair Reserve = 20% of annual facilities maintenance and operations budget to provide funds in the event of major unplanned expenditures based on historic emergency repair data.



Debt Service Reserve = current year of annual debt service payments.



Reimbursable Expenditures Reserve = 10% of the combination of grant and reimbursable revenues based on the current annual budget.

What new services will clean water provide?



Mandated Services Only - \$23.6M



Capital Facilities

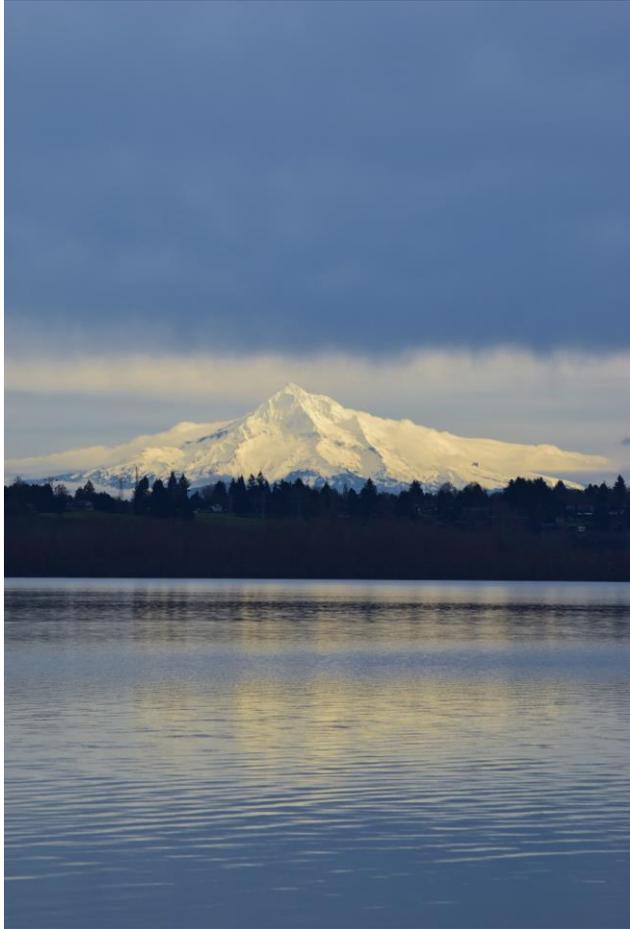
- Address failing infrastructure.
- Major repair and replacement.
- Address mapping and inventory backlogs.

Maintenance & Operations

- Quarterly street sweeping.
- Restoration of 500 stormwater ponds.
- Maintenance on 600 bioretention facilities.
- Pervious sidewalk maintenance.
- Public facility inspections.
- Increased construction stormwater and end of warranty inspections.



Mandated Services Only - \$23.6M



Stormwater Planning & Coordination

- Updated Stormwater Code and Manual.
- Stormwater Management Action Plan.
- Mandatory Stormwater Training.
- Tree Canopy mapping, goals, and policies.
- More pollution source control at businesses.
- More private stormwater facility technical assistance.

Water Quality Monitoring

- Continued resources for data collection

Education and Outreach

- More outreach, attendance at events, volunteer coordination, direct engagement.



Recommended Services - \$44.4M

All Mandated Services PLUS....



Capital Facilities

- 20-year capital plan.
- Phosphorous removal cartridges.
- Repair of aging pipe infrastructure.
- Repair of failing UIC (Philbrook Farms).
- Stormwater engineering resources.

Maintenance & Operations

- Pipe inspections.
- Asset management program for aging infrastructure.
- Asset photo inventory.
- Inspection and maintenance of 1600 drywells.
- Maintenance of 96 clean water parcel..
- Pervious roadway maintenance.

Recommended Services - \$44.4M

All Mandated Services PLUS....



Stormwater Planning & Coordination

- Code enforcement.
- Response to environmental complaints.
- Additional stormwater planning expertise.

Education and Outreach

- Triple education and outreach capacity at the County.

Administration

- Dedicated funding for Lake Treatment.
- Dedicated Lake Coordinator.
- Triple grant revenue through project development.



Additional Services - \$50.2M

All Mandated & Recommended Services PLUS....



Capital Facilities

- Advanced wetland mitigation site for public works projects.
- Expanded watershed retrofits.
- Development of large-scale neighborhood drainage and flooding improvements.
- Development of large-scale stormwater project in collaboration with County Road and Parks projects.
- Dedicated resource for nature-based solutions (floodplain / wetland restoration and reforestation).

Maintenance & Operations

- Noxious weed management on Clean Water owned properties.



Additional Services - \$50.2M

All Mandated & Recommended Services PLUS....



Stormwater Planning & Coordination

- Dedicated watershed planner.

Education and Outreach

- More public involvement for Clean Water projects.

Administration

- Dedicated resources for environmental justice and equity.



Approx. \$10 Million more a year for highest level of service.

Mandated + Recommended + Additional Services

Addresses 65 Service Gaps

As a reminder



Goal is to catch up.



**Provide high quality
clean water services.**



**Achieve cost
recovery for
services provided.**