



# King County

1200 King County  
Courthouse  
516 Third Avenue  
Seattle, WA 98104

## Meeting Agenda Regional Water Quality Committee

**Councilmembers:**

*Claudia Balducci, Chair  
Reagan Dunn, Dave Upthegrove*

**Alternate:**

*Sound Cities Association: Conrad Lee, Bellevue, Vice Chair; Sarah Moore, Burien;  
Laura Mork, Shoreline; Jessica Rossman, Medina*

*Alternates: Kelli Curtis, Kirkland; Yolanda Trout Manuel, Auburn*

*Sewer/Water Districts: Chuck Clarke, Woodinville Water District; Lloyd Warren, Sammamish Plateau Water  
District*

*Alternate: Ryika Hooshangi, Sammamish Plateau Water*

*City of Seattle: Joy Hollingsworth, Robert Kettle*

*Alternate: Rob Saka*

*Lead Staff: Jenny Giambattista (206-477-0879)*

*Committee Clerk: Blake Wells (206-263-1617)*

**3:00 PM**

**Wednesday, October 2, 2024**

**Hybrid Meeting**

**Hybrid Meetings:** Attend the King County Council committee meetings in person in Council Chambers (Room 1001), 516 3rd Avenue in Seattle, or through remote access. Details on how to attend and/or to provide comment remotely are listed below.

Pursuant to K.C.C. 1.24.035 A. and F., this meeting is also noticed as a meeting of the Metropolitan King County Council, whose agenda is limited to the committee business. In this meeting only the rules and procedures applicable to committees apply and not those applicable to full council meetings.

**HOW TO PROVIDE PUBLIC COMMENT:** The Regional Water Quality Committee values community input and looks forward to hearing from you on agenda items.

	<p>Sign language and interpreter services can be arranged given sufficient notice (206-848-0355). TTY Number - TTY 711.</p> <p>Council Chambers is equipped with a hearing loop, which provides a wireless signal that is picked up by a hearing aid when it is set to 'T' (Telecoil) setting.</p>	
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The Committee will accept public comment on items on today’s agenda in writing. You may do so by submitting your written comments to [kcccomitt@kingcounty.gov](mailto:kcccomitt@kingcounty.gov). If your comments are submitted before 8:00 a.m. on the day of the meeting, your comments will be distributed to the committee members and appropriate staff prior to the meeting.

**HOW TO WATCH/LISTEN TO THE MEETING REMOTELY:** There are three ways to watch or listen to the meeting:

- 1) Stream online via this link: [www.kingcounty.gov/kctv](http://www.kingcounty.gov/kctv), or input the link web address into your web browser.
- 2) Watch King County TV on Comcast Channel 22 and 322(HD) and Astound Broadband Channels 22 and 711(HD).
- 3) Listen to the meeting by telephone.

Dial: 1 253 215 8782

Webinar ID: 827 1536 1574

To help us manage the meeting, please use the Livestream or King County TV options listed above, if possible, to watch or listen to the meeting.

1. **Call to Order**

2. **Roll Call**

To show a PDF of the written materials for an agenda item, click on the agenda item below.

3. **Approval of Minutes** p. 4

*September 4, 2024 meeting minutes*



4. **Chair's Report**

5. **MWPAAC Report**

*John McClellan, Chair, MWPAAC*

6. **Wastewater Treatment Division (WTD) Report**

*Kamuron Gurol, Director, Wastewater Treatment Division, Department of Natural Resources and Parks*



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## Briefings

7. [Briefing No. 2024-B0085](#) p. 7  
Regional Wastewater Services Plan Update: Status Report  
*Kamuron Gurol, Director, Wastewater Treatment Division, Department of Natural Resources and Parks*
8. [Briefing No. 2024-B0067](#) p. 27  
Contaminants of Emerging Concern: Update on Efforts to Reduce and Control PFAS and Contaminants of Emerging Concern as Requested by Motion 16434  
*Erika Kinno, Research and Policy Project Manager, Wastewater Treatment Division, Department of Natural Resources and Parks*  
*Megan Smith, Environment and Water Quality Policy Manager, King County Department of Natural Resources and Parks*
9. [Briefing No. 2024-B0114](#) p. 47  
Executive's Proposed 2025 Wastewater Treatment Division Proposed Capital Improvement Program  
*Crystal Fleet, Capital Portfolio Planning & Analysis Unit Manager, Wastewater Treatment Division, Department of Natural Resources and Parks*
10. [Briefing No. 2024-B0115](#) p. 56  
Stormwater Study Session: Part 1-Understanding the Stormwater Problem  
*John Taylor, Director, Department of Natural Resources and Parks*  
*Megan Smith, Environment and Water Quality Policy Manager, King County Department of Natural Resources and Parks*  
*Angela Gallardo, Managing Supervisor, Environmental Program, Water and Land Resources Division, Department of Natural Resources and Parks*
11. [Briefing No. 2024-B0042](#) p. 90  
2024 Regional Water Quality Committee (RWQC) Work Plan  
*Jenny Giambattista, Council staff*

## Other Business

## Adjournment

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## Meeting Minutes Regional Water Quality Committee

**Councilmembers:**

*Claudia Balducci, Chair  
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Alternate:*

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Sarah Moore, Burien;  
Laura Mork, Shoreline; Jessica Rossman, Medina**

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Auburn**

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**Lead Staff: Jenny Giambattista (206-477-0879)  
Committee Clerk: Blake Wells (206-263-1617)**

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3:00 PM

Wednesday, September 4, 2024

Hybrid Meeting

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**SPECIAL MEETING  
REVISED AGENDA  
DRAFT MINUTES**

1. **Call to Order**

*Chair Balducci called the meeting to order at 3:09 PM.*

2. **Roll Call**

**Present:** 12 - Balducci, Clarke, Dunn, Lee, Mork, Moore, Rossman, Warren,  
Hollingsworth, Kettle, Curtis and Hooshangi

**Excused:** 1 - Upthegrove

3. **Approval of Minutes**

*Vice Chair Lee moved approval of the July 15, 2024 meeting minutes. There being no objections, the minutes were approved.*

4. **Chair's Report**

*Chair Balducci provided an overview of the agenda.*



**5. MWPAAC Report**

*John McClellan, Chair, MWPAAC, provided updates on recent and upcoming MWPAAC meetings, reviewed his markup of the Wastewater Treatment Division's document regarding major policy questions, and answered questions from the members.*

**6. Wastewater Treatment Division (WTD) Report**

*Kamuron Gurol, Director, Wastewater Treatment Division, Department of Natural Resources and Parks, provided updates on the Heathfield Pump Station mechanical failure on August 15, 2024, site visits from the First Amendment Auditors, documents regarding biosolids that were sent by RWQC members to the Wastewater Treatment Division, and recent tours of Wastewater Treatment Division facilities by legislators and University of Washington employees.*

**Briefings****7. Briefing No. 2024-B0085**

Regional Wastewater Services Plan Update

*John McClellan, Chair, MWPAAC, briefed the committee on MWPAAC's approach to the Regional Wastewater Services Plan. Jim Simmonds, Supervisor, Comprehensive Planning, Wastewater Treatment Division, Department of Natural Resources and Parks, also addresses the committee and answered questions from the members.*

*The committee held an open discussion on the scoping of this issue and guiding principles moving forward.*

**This matter was Deferred**

**8. Briefing No. 2024-B0042**

2024 Regional Water Quality Committee (RWQC) Work Plan

*Chair Balducci provided updates on the work program.*

**This matter was Deferred**

## Adjournment

*The meeting was adjourned at 4:56 PM.*

Approved this \_\_\_\_\_ day of \_\_\_\_\_.

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Clerk's Signature

**RWSP Update Scoping Document Comments**

Reference document link

[DraftRWSPScopingDocument.docx](#)

Comment #	Commenter Organization	Source of comment	Page No.	Policy Category (if applicable)	Comments (Note: WTD responses to be provided by Nov. 6 meeting)
1	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes			How will MWPAAC be involved?
2	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes			Some contracts expire in 2036. What is timing of restarting contract negotiations?
3	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes			Want documents more than the day before - as early as possible
4	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes			In future, when material is sent, please send how WTD wants feedback and timeframe for comments.
5	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	2		Why is visioning in the middle of the process? Why not sequential? Vision would be most helpful if established earlier.
6	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	2		Where does decision making fit - like for risk and level of service?
7	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	2		Vision would/should inform how policy issues are prioritized.
8	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	2		Do we need more time to conduct technical analyses needed to make decisions. Where is the technical work? Make sure there is enough time to do work needed.
9	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	4		Some concern about three alternatives. Will want to mix and match. Pioneering utility looks intimidating since it's so expensive. What about best practice as an alternative?
10	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	4		Pioneering utility might seem kind of out there, but being future-focused is very important so we are not caught off-guard. Committee member worked at prior utility that invested in nutrient reduction when there was an opportunity, and that utility is now ahead of the game. Important to look for opportunities as we go through this process.

11	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	7		Suggest a new policy topic/category - relationship to contracts
12	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	7		Is list of major policy issues in priority order? If yes, finance/affordability should be at the top and not at the end. Same with capacity. What about things not on list - cost, infrastructure, water quality - can we add?
13	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	7	Equity and Social Justice	Hope equity and social justice can be expanded to include equity among contract agencies since not all agencies are treated the same. All for one and one for all - let's make sure everyone is receiving a similar level of service from the regional system. Cascade Water Alliance is implementing equity among their members. Good model for WTD to look at.
14	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	7		Some of the major policy issues/questions are technical and not policy.
15	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	7	Capacity Demands	Capacity for growth question contains a lot - need to break out more to understand.
16	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	7	Infrastructure resiliency	Risk tolerance is a key policy question - very nuanced and varies across system
17	MWPAAC	8/28 MWPAAC general meeting - WTD staff notes	7	Infrastructure resiliency	For asset management, need to consider level of service. What is definition and expectation? Can help drive investment. Need to spend time figuring out the level of service. Level of service expectation is a policy decision.
18	MWPAAC	9/4/24 RWQC Meeting packet			Some of the major policy issues/questions are technical and not policy.
19	MWPAAC	9/4/24 RWQC Meeting packet			The top five questions are as follows: 1) Will WTD maintain a single uniform sewer rate per RCE or consider alternative cost recovery rate structures to reflect other system impacts; 2) How should I/I be managed; Should I/I policy change to reduce the capacity needed for I/I; 3) Under what circumstances should the region expand the use of reclaimed water; Which uses are most appropriate; 4) What level of risk tolerance should WTD accept; 5) What upstream or source control actions should the region undertake?

20	RWQC	9/4/24 RWQC Meeting - staff notes			Need for a project charter to serve as a framework
21	RWQC	9/4/24 RWQC Meeting - staff notes	7	Equity and Social Justice	Need more clarity on equity and affordability - is it a social issue or a financial issue? Is fairness a better definition?
22	RWQC	9/4/24 RWQC Meeting - staff notes			Any vision of what the future system looks like will come at a cost. We need to have a balance. The balance between vision and cost is something that will have to be an iterative process.
23	RWQC	9/4/24 RWQC Meeting - staff notes	7	Equity and Social Justice	The concept of rate fairness, including between different classes of rate payers, might be a more specific way to distinguish equity. This concept needs to be mentioned.
24	RWQC	9/4/24 RWQC Meeting - staff notes	7	Capacity Demands	How does infiltration/inflow (I/I) appear in this? Cities are paying for stormwater, but stormwater isn't mentioned in this list. Stormwater directly impacts wastewater via I/I and this needs to be clear.
25	RWQC	9/4/24 RWQC Meeting - staff notes	7	Regulatory Landscape	Should we look at water quality more holistically? How do we most effectively spend the dollars? Regulations deal with wastewater and stormwater separately, but Puget Sound doesn't care about this difference. We are going to have to grapple with this while remembering that this is where the Clean Water Plan floundered.
26	RWQC	9/4/24 RWQC Meeting - staff notes	7	Regulatory Landscape	Consider adding a new policy area for the environmental impact of wastewater and possibly in context, acknowledge the contribution of stormwater to environmental impact without proposing policies/programs for stormwater.
27	RWQC	9/4/24 RWQC Meeting - staff notes	7	Climate Change	Under climate change, there is no mention of storm intensities which has a big impact on I/I.
28	RWQC	9/4/24 RWQC Meeting - staff notes			Who decides on the vision? Need to understand roles and decision-making process.
29	RWQC	9/4/24 RWQC Meeting - staff notes			Need to start with the mission and vision first and identify constraints/restraints.
30	RWQC	9/4/24 RWQC Meeting - staff notes			What's the difference between Vision for Clean Water versus vision for regional wastewater system?
31	RWQC RWQC Meeting Materials	9/4/24 RWQC Meeting - staff notes	7	Capacity Demands	A big thing is capacity demand and the need to take care of customers/neighbors and expansion, i.e., the ability to deliver

32	RWQC	9/4/24 RWQC Meeting - staff notes	7	Infrastructure resiliency	Infrastructure resiliency and taking care of maintenance is also important.
33	RWQC	9/4/24 RWQC Meeting - staff notes	8	Finance / Affordability	Affordability might be a stand alone item.
34	RWQC	9/4/24 RWQC Meeting - staff notes	7	Regulatory Landscape	Should we be thinking about inland waters (e.g., lakes, streams, etc.) and not just Puget Sound? Should we be looking at Salish Sea instead of Puget Sound?
35	RWQC	9/4/24 RWQC Meeting - staff notes			What level of detail are we talking about in this discussion? If we're starting at a high level and working toward detail that will be embedded in code, what is the process to get there?
36	RWQC	9/4/24 RWQC Meeting - staff notes	7	Equity and Social Justice	Need more definition on things like equity and affordability.
37	RWQC	9/4/24 RWQC Meeting - staff notes	7	Climate Change	Protection - What are we doing for protection around climate change? To protect Puget Sound? To protect our assets?
38	RWQC	9/4/24 RWQC Meeting - staff notes	7	Equity and Social Justice	Equity - Consider thinking about this as economic mobility. What vendors are we using? Are they people of color? Are the investments we are making going back into the community we are impacting?
39	RWQC	9/4/24 RWQC Meeting - staff notes	8	Finance / Affordability	Affordability - The middle class is also struggling. We focus a lot on low-income, but what about people that don't meet that threshold that can't afford things? Fixed income is a challenge.
40	RWQC	9/4/24 RWQC Meeting - staff notes	8	Finance / Affordability	Question about regional buy-in on the costs to the system. The Robinswood agreement was in part a regional acceptance of a certain balance of service and costs. It's been a long time since that agreement. This is an opportunity to build a current regional consensus about who benefits and who pays.
41	RWQC	9/4/24 RWQC Meeting - staff notes	4		Capital strategies - Stay the course, strategic enhancement, pioneering utility - This is the crux. How does this fit with our mission and vision?
42	RWQC	9/4/24 RWQC Meeting - staff notes	2		On Figure 1, are the tasks in priority order or are they just convenient. Why isn't visioning first?
43	RWQC	9/4/24 RWQC Meeting - staff notes	8	Finance / Affordability	We should go back and review the Robinswood agreement and policies. What was in it? Should it change and if so, how?

44	RWQC	9/4/24 RWQC Meeting - staff notes	8	Finance / Affordability	We know we have an affordability problem already as we see rates likely doubling/tripling. How can we afford anything beyond requirements? Maybe start with the minimum/basics and then see how much can be layered on top of it.
45	RWQC	9/4/24 RWQC Meeting - staff notes			We need to understand historical data, volume, rates, and affordability. Need to agree on past facts in order to move forward and build consensus. Need to understand why things were built the way they were.
46	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	8	Finance / Affordability	There should be consideration for contracting agencies to be billed on a total flow basis to reflect actual demands placed upon the conveyance and treatment systems. This would address any inaccuracies in the RCE and better reflect a true cost of service. This would create direct financial incentives for local agencies to reduce I/I.
47	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	8	Finance / Affordability	If the RCE is to be used in the future as the basis for customer charges, the RCE should be periodically recalibrated to reflect actual flows.
48	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	8	Finance / Affordability	If the RCE is to be used in the future as the basis for customer charges, there should be I/I standards for contract agency owned systems and disincentives for exceeding standards. There should also be an equivalent disincentive for combined sewer flows.
49	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email			There should be clear policy guidance on defining the scope and limits of wastewater program responsibilities that result in costs to contract agencies.
50	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	7	Equity and Social Justice	There should be clearer policy guidance as to how Equity and Social Justice objectives apply directly to wastewater functions and how they are prioritized with respect to traditional utility decision making processes.

51	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	8	Finance / Affordability	There should be clearer policy guidance as to the objectives of affordability initiatives - a) reducing the total overall current and future costs of the wastewater system that apply to all customers; b) reducing costs of housing for certain customers; c) reducing wastewater charges for certain customers; d) reducing rates in the near term; e) other
52	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email			Policy should be developed to ensure that the County will implement its plans and programs consistent with direction and requirements expected of contract agencies.
53	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email			The County should commit to developing and updating a system-wide plan that is coordinated with contract agencies that would identify the anticipated location and timing of future regional facilities. In addition, the County should develop design standards for such facilities that contract agencies would use in construction. The County should commit to accepting such regional facilities when established criteria are met.
54	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	7	Equity and Social Justice	Levels of service should be established for local connections to the regional system such that all contract agencies are treated equitably.
55	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	8	Resource Recovery	The County should coordinate reclaimed water planning with local drinking water system plans.
56	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	8	Resource Recovery	Local drinking water utilities should not be economically impacted by the delivery of reclaimed water within their service area.
57	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	8	Resource Recovery	The County should be responsible for costs to mitigate contamination to drinking water supplies from contaminants in reclaimed water.



58	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	8	Resource Recovery	The County should plan to provide opportunities for all contracting agencies to access reclaimed water.
59	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	7	Infrastructure resiliency	The County should evaluate, prioritize and program facilities and pipelines based upon the likelihood and consequences of failure from a seismic event, and consider options to expedite service restoration.
60	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	7	Infrastructure resiliency	The County, in coordination with contract agencies, should develop a service restoration plan in the event of service disruptions from a seismic event. A service restoration plan should not significantly disadvantage any community.
61	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	8	Finance / Affordability	The connection charge program should capture all elements of growth, not just those that are easily identified and capture those units of growth that may not include a new connection to the sewer system.
62	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	8	Finance / Affordability	Individual connection charges should not include costs associated with those units of growth that are not being assessed.
63	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	8	Finance / Affordability	The County and contracting agencies should evaluate the option of passing connection charges on to contracting agencies instead of to individuals.
64	Sewer Districts	9/5/24 Sewer District Policy Paper transmitted by email	7	Infrastructure resiliency	A long term asset management plan should be implemented that recognizes the investment that will be necessary to sustain the wastewater system into the future. This level of investment will be included in fiscal modeling and rate forecasting.

65	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Regulatory Landscape	Acknowledge and agree with RWQC comments from Sept. 4 meeting recognizing stormwater is not explicitly covered in any of the policy areas. Propose consideration of including a stormwater policy and acknowledge the significant contribution that stormwater makes to overall pollution in the Puget Sound and other water bodies in the service area. The intent is not to take on stormwater projects in the RWSP Update, but about where to draw the line.
66	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Regulatory Landscape	Looking to the future, considering different technologies could result in more distributed treatment and potentially discharging into inland waters in addition to Puget Sound. This also ties into reclaimed water, emerging contaminants and PFAS.
67	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Regulatory Landscape	Recommend a forward-looking policy for WTD to work with regulators to steer future regulations, advocating for greater awareness around how stormwater and wastewater regulations are connected.
68	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Regulatory Landscape	Distinguish between policy vs. engineering/technical questions.
69	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Regulatory Landscape	Reactive vs. proactive - It is important to include all of the considerations including funding and resources so the full picture is clear on the implications of a reactive vs. proactive approach.
70	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Capacity Demands	Some questions seem to be technical vs. policy. As an example, the third question about increasing facility capacity or a decentralized approach could be pulled up to a policy level that commits to using a detailed business case analysis.
71	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Capacity Demands	Should capacity be looked at first in the actual review order because the overarching focus is providing wastewater service, and capacity gets at how much service needs to be provided, with capital investment as the main driver that should become the base for all the other areas.
72	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Capacity Demands	It would be good to have a baseline if King County is currently meeting the capacity needs of the agencies it contracts with, relating specifically to ownership and extension of regional facilities that meet the County standards. It would be beneficial to have a deep dive gap analysis of existing conditions.
73	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Capacity Demands	We know I/I impacts capacity. We should consider the question of if it's worthwhile as a region to be more proactive in eliminating I/I and stormwater from our system regionally to avoid building new facilities sooner than later, or do we deal with it by building another treatment plant.

74	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Capacity Demands	What steps have Seattle and King County taking to retrofit their systems to reduce CSO impacts through separated system investments? Are there any policies that address that?
75	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Infrastructure resiliency	It would be good to tie the work of the recent motion responses for long range forecasting into this section, and have policies around the use of or dedication to maintaining and continuing investment in the maturity of the long range forecasting tools and methods.
76	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Infrastructure resiliency	When we get to the risk policy area, there should be good definition around types of risk, for instance is this addressing financial risk, environmental risk, system risk, enterprise risk, etc. and pull the language up to the policy level but ensure enough clarity is there to make it meaningful.
77	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Infrastructure resiliency	The risk issue is a deep topic. To have the most meaningful conversations at the RWQC level, we need to be clear about what the risks are here. That's too far in the weeds here, but we should be prepared with information on those types of risk and what there is to consider.
78	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Infrastructure resiliency	Recommend coming up a level from the questions currently listed. Asset Management decisions are dynamic, a policy should be at a level such as requiring the use of a strategic asset management plan (SAMP), defining the key areas of focus for the SAMP, and coming to an update frequency for the SAMP.
79	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Infrastructure resiliency	There are two different areas in this category, the risk topic and the renewal/replacement topic. Having the renewal/replacement considerations in this category could lose the interconnectivity to the other categories that need to be balanced together in creating a capital plan. Maybe separate it out or highlight it to be reviewed with the other categories.
80	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Infrastructure resiliency	The issue of balancing investments in existing infrastructure and what is needed to provide for the future is a common issue across most agencies. It's important to look across all investment categories and the rate considerations to create the most effective portfolio.
81	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Infrastructure resiliency	WTD has been pursuing an asset management program for a long time. It would be beneficial to have clarity on the ask. Is the ask "Should we do something different?" If not, and the asset management program is achieving what is needed, then is this a necessary policy issue for now?

82	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Infrastructure resiliency	There is a link between resiliency and natural hazards and the other category related to climate change and I/I. As you bring these together, are you designing these systems for future precipitation situations, or are you designing them for the last 40 years of precipitation information? That is a policy decision and could go in all three of these categories.
83	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Equity and Social Justice	Interagency equity should be considered as part of this. We should consider if all agencies have the same level of service and access to regional facilities, agencies should not be put at a geographic disadvantage. Recommend the definition of equity be drafted with that element included.
84	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Equity and Social Justice	There are many types of equity - intergenerational equity, regional equity, social equity, and environmental justice equity. All of these are very different considerations. In drafting the definition, recognizing the varieties of equity and social justice that are out there, this should be thought through as part of the analysis and maybe defined separately.
85	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Climate Change	The first question (What climate experts and data should WTD use to inform planning?) seems to be a technical question, an operational decision, and not a policy level question.
86	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	7	Climate Change	The second question around energy use and greenhouse gas emission reduction, could possibly be better phrased to "Should WTD be doing these thing" and not "How". Again, the how seems more on the technical side and requires analysis of options. At the policy level, we should stay at the "what should we do" and possibly "how much should we do it," but it seems the how is later in the process.
87	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	8	Resource Recovery	Recycled water has been coming up as a more frequent topic. There was a motion around 2011 regarding reclaimed water. I believe the motion was around what we should do about reclaimed water, where we should do it, and to develop policies around how it is paid for and by whom. I don't know the status of those policies or if they were ever finalized. It will be important to revisit what the policies were, and RWQC will need to see those policies to make decisions on this topic.

88	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	8	Resource Recovery	<p>Recycled Water - There are a lot of different angles here. Some agencies have a specific interest in this particularly around the financial stuff that has been mentioned. I would love to see more recognition around the financial implications and associated impacted agencies, such as Cascade Water Alliance.</p> <p>There is an environmental benefit as well as an environmental risk around the use of recycled water, so we need to have enough context and capture the need for protection.</p>
89	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	8	Resource Recovery	<p>Similar to the stormwater discussion earlier, this might be another area that policy is needed to capture where the line is between water planning and wastewater planning. They need to be complementary, but they are not the same. Policy should define those areas.</p>
90	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	8	Resource Recovery	<p>Echo the previous comments on considering the environmental risks, as well as note there seems to be an assumption of expansion, and I would like to see a leaning toward evaluation in general. In some cases, we should consider a baseline of should we do this at all.</p>
91	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	8	Finance / Affordability	<p>Can WTD provide clarity around the rate relief question since WTD does not have retail customers? Rate relief programs are managed at the local agency level. It would be good to have a better understanding of the context of the policy question.</p>
92	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	8	Finance / Affordability	<p>We have talked a lot at MWPAAC around the balance between cash funding vs. debt in the CIP. That isn't explicitly called out, and there isn't a question referencing how we are going to balance the large CIP that will come out as part of this plan.</p>
93	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	8	Finance / Affordability	<p>Following the previous comment, not only cash flow but previous affordability discussions have included things like grant seeking and federal support. That is not explicitly defined here.</p>
94	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	8	Finance / Affordability	<p>When we talk about rate structure and affordability, one of the things talked about at SCA is using the term "affordability and rate fairness." The idea is not only considering affordability at large but also the difference between the rate classes and jurisdictions.</p>
95	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes			<p>Is there a place for a defined update frequency for the RWSP?</p>
96	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes			<p>It would be good to see in the scope a scheduled task and time dedicated to review the policies across categories to ensure the interconnectivity is considered and it is ensured that the policies complement and don't hinder each other, as well as having the cross over between policy areas documented and memorialized somewhere.</p>

97	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes	2		MWPAAC and RWQC have concerns around the Vision effort running concurrent with other efforts such as tasks 6 and 7 which are policy areas. A defined vision is beneficial to the subsequent efforts and inform the priority and direction for the other efforts.
98	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes			It would be good to see what the vision was in 1999? Does that history serve as an orientation? Are there elements that should be common and shared?
99	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes			There is a desire to have additional involvement outside of current established process for review with WTD. Is there a space where some members could be more involved in the process outside of and in addition to the normal MWPAAC or RWQC committee meetings?
100	MWPAAC	9/5/24 MWPAAC subcommittee meeting notes			How can MWPAAC members participate and contribute in this process, not necessarily as decision makers, but members that support and participate in the process?
101	SCA	9/16/24 SCA Caucus feedback transmitted by email	2		Set a clear vision for the plan earlier in the process. This is an opportunity to build regional consensus and buy-in on how service costs are distributed.
102	SCA	9/16/24 SCA Caucus feedback transmitted by email			Define equity, affordability (for the middle class and not just low-income), and the concept of rate fairness between rate classes.
103	SCA	9/16/24 SCA Caucus feedback transmitted by email			Provide historical context as part of the update, so cities and other contract agencies can understand how past decisions led to the system we have today. Including the history of the regional wastewater system, Robinswood Agreement, key assumptions, and how past decisions led to the system we have today to inform how we regionally move forward.
104	SCA	9/16/24 SCA Caucus feedback transmitted by email			Because many of the areas impact each other, the process needs to start with a firm grounding in all major elements of the RWSP and how they are interrelated, particularly concerning rate affordability and rate fairness. There also needs to be space made to discuss the interrelationship of policy choices as each chapter moves forward.
105	SCA	9/16/24 SCA Caucus feedback transmitted by email			Identify the current capacity in the system, what future capacity will be, and what we need to replace. Start with these basics then layer additional policy options on top of that to keep rates affordable.

106	SCA	9/16/24 SCA Caucus feedback transmitted by email			Better define stakeholder engagement. Clarify who gets to decide the vision and what is the role of MWPAAC, RWQC, and individual Councils. Likewise, as a regional organization that represents cities across King County, SCA should be considered a partner in this work.
107	SCA	9/16/24 SCA Caucus feedback transmitted by email			Consider adding a section in the RWSP that acknowledges stormwater's environmental impacts while clarifying that this plan would not adopt policy or projects on stormwater. Will need to grapple with the challenges around I/I and CSOs.
108	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Regulatory Landscape	SCA agrees with MWPAAC that this language can be clarified to sit more squarely within the policy and not technical realm. See suggested edit to question 2 - What assumptions should be made about <u>how the County will anticipate, engage with, and address</u> future nutrient permit requirements, regulations related to CECs such as PFAS, or other future regulatory changes?
109	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Capacity Demands	New question - <u>How do the future rate projections (doubling in 10 years) inform and/or constrain choices across all policy areas? I.e., which discretionary policy choices are realistic given known future capital needs? This issue is applicable to the finance policy discussion also.</u>
110	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Capacity Demands	Suggested edit to question 2 - Beyond the required capacity needed to meet current regulatory and contractual obligations, what level of capacity should be planned for, <u>and what are the cost implications?</u>
111	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Capacity Demands	Suggested edit to question 4 - How should I/I be managed <u>and how can costs be fairly apportioned?</u> How much of the additional projected flow is coming from I/I versus population growth? Should I/I policy change to <u>reduce support reducing</u> the capacity needed for I/I?
112	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Capacity Demands	New question - <u>What types of sewer cost allocation structures can incentivize I/I reduction?</u>
113	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Capacity Demands	Capacity and capacity demand should be treated as a separate category from I/I, both because capacity is about more than just I/I, and also because SCA expects I/I to be a major area of policy discussion that should have its own space.
114	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Capacity Demands	Capacity should be listed first in the table, and addressed first. Understanding system capacity and future capacity needs is foundational to being able to thoughtfully weigh policy choices in all areas.

115	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Capacity Demands	WTD should begin all of the policy discussions by providing a grounding for RWQC members in existing capacity and projected capacity needs, with a clear articulation of the assumptions (which might also be future policy debate areas) behind the capacity need projections (e.g., amount of population growth, water conservation, I/I reduction).
116	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Infrastructure resiliency	Suggested edit to question 2 - What level of resiliency should WTD plan for regarding seismic and other natural hazards? What level of risk tolerance should WTD accept? <a href="#">How can these considerations be best informed by the long term capital motion work in progress?</a>
117	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Infrastructure resiliency	This policy area cannot be discussed in a vacuum. WTD should ensure RWQC has enough grounding information in long-term capital needs, regulatory requirements, and implications of policy decisions on rate affordability.
118	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Equity and Social Justice	Suggested edit to question 1 - What actions should WTD take to increase equity and social justice for the regional wastewater system (Should include definition of equity and social justice <a href="#">and provide more detail on how this will be interwoven in the update: community engagement, rate structure analysis, etc.</a> ).
119	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Equity and Social Justice	Suggest moving question from Finance/Affordability category to Equity and Social Justice category - <a href="#">What other rate relief approaches should WTD implement to improve affordability for those who may struggle to pay their sewer bill?</a>
120	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Equity and Social Justice	SCA shares King County's commitment to ensuring equity and social justice (ESJ) implications are actively considered throughout the discussions for each policy area.
121	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Equity and Social Justice	ESJ needs to be clearly defined in WTD materials and presentations as being the principles related to the county's ESJ strategic plan, which can be related to but is distinguishable from rate affordability for all customers and rate fairness between jurisdictions and rate classes.
122	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Equity and Social Justice	Define and analyze the concept of "rate fairness" separate from equity and social justice.
123	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Climate Change	Suggested edit to question 1 - What climate experts <del>and</del> data, <a href="#">and assumptions</a> should WTD use to inform planning? <a href="#">Should these efforts be coordinated with contract agency side systems?</a>



124	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Climate Change	New question - <u>What are the water quality issues that impact WTD rates (I/I management)? What efforts are happening in the stormwater arena that need to be taken into consideration? How much effort should be devoted to exploring whether there may be opportunities for synergy and collective action with stormwater (i.e., can we begin to break down the regulatory silos)?</u>
125	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Climate Change	New question - <u>How should WTD efforts support the water quality of Puget Sound and applicable inland waterways?</u>
126	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Climate Change	Add water quality and define the parameters as previously discussed in RWQC and MWPAAC, i.e., the RWSP is about wastewater but it should be done with an understanding of its relationship to stormwater efforts. Stormwater is also to be addressed directly in the RWSP with respect to I/I.
127	SCA	9/16/24 SCA Caucus feedback transmitted by email	7	Climate Change	Add climate refugees in recognition that climate change may be a driving force in our population growth over time.
128	SCA	9/16/24 SCA Caucus feedback transmitted by email	8	Resource Recovery	New question - <u>How can the county best support environmental benefits while instituting safeguards to protect against environmental risks of contamination? How should cost considerations be weighed?</u>
129	SCA	9/16/24 SCA Caucus feedback transmitted by email	8	Finance / Affordability	Suggested edit to question 2 - Will WTD maintain a single uniform sewer rate per RCE (Robinswood “one for all, all for one”), or consider alternative cost recovery rate structures to reflect other system impacts? <u>How does the ongoing rate methodology study inform this conversation?</u>
130	SCA	9/16/24 SCA Caucus feedback transmitted by email	8	Finance / Affordability	New question - <u>How do the future rate projections (doubling in 10 years) inform and/or constrain choices across all policy areas? I.e., which discretionary policy choices are realistic given known future capital needs? See capacity policy area above.</u>
131	SCA	9/16/24 SCA Caucus feedback transmitted by email	8	Finance / Affordability	The policy choices for all the other chapters affect how much cost is incurred. Finance/rates is one of the themes that are woven into all other policy decisions.

132	SCA	9/16/24 SCA Caucus feedback transmitted by email	8	Finance / Affordability	Does WTD plan to cover the affordability challenge last? Why? At a minimum, there should be some discussion of the financial policies on the front end to set the stage and inform discussions in the other areas.
133	SCA	9/16/24 SCA Caucus feedback transmitted by email	2	Project Objectives	Define equity, race, and social justice. Define the concept of "rate fairness" separate from equity and social justice.
134	SCA	9/16/24 SCA Caucus feedback transmitted by email	3	Challenges and Opportunities	A background or history of the system should be part of the update. At a minimum as the status of the system (who's in, how it's paid for, history of agreements), existing capacity, future projected need, and what's changed since the last RWSP that should be sufficient. This "system status" was missing from the scope.
135	SCA	9/16/24 SCA Caucus feedback transmitted by email	3	Challenges and Opportunities	Create a space for policy discussion on interrelated concepts that span categories, so that each policy decision is informed by its nexus with and impact on the others.
136	SCA	9/16/24 SCA Caucus feedback transmitted by email	4	Vision	We should set the "vision" much sooner in the process as it should inform the rest of the work. Our central question is where are we going? And how much will it cost? Putting vision sooner in the process will also lead to better stakeholder engagement.
137	SCA	9/16/24 SCA Caucus feedback transmitted by email	4	Vision	Keep in mind outreach and engagement of SCA PIC members to gather feedback on the initial vision concepts and the accompanying challenges and opportunities document.
138	SCA	9/16/24 SCA Caucus feedback transmitted by email	4	Financial Policies	The work will include "developing draft policy revisions and seeking review from MWPAAC and stakeholders." <b>Stakeholders should explicitly include RWQC, cities and sewer districts.</b>
139	SCA	9/16/24 SCA Caucus feedback transmitted by email	4	Capital Program Plan, EIS, and Policies	As part of the technical analysis, collaboration between MWPAAC and RWQC should be mentioned. RWQC does not need in the weeds technical analysis updates, but more broad policy implications to their constituents.
140	SCA	9/16/24 SCA Caucus feedback transmitted by email	4	Capital Program Plan, EIS, and Policies	Be clearer about addressing climate change impacts when we discuss future planning. Example – when we discuss planning for population growth, does that include planning for climate refugees, too?

141	SCA	9/16/24 SCA Caucus feedback transmitted by email	5	Regional Engagement	The scoping document states that regional engagement is to take place “throughout the planning process.” However, what and who does that entail? Need more context on whether a formal regional engagement strategy will be presented to RWQC/MWPAAC later in the process to touch on which groups and stakeholders are engaged (who, what, when, where, how).
142	SCA	9/16/24 SCA Caucus feedback transmitted by email	5	Regional Engagement	Unclear why neighborhood groups and homeowner associations are on the list – which part of the plan would they be providing input on? SCA recommends putting the vision development sooner in the process to get more quality and meaningful engagement.
143	SCA	9/16/24 SCA Caucus feedback transmitted by email	5	Regional Engagement	Sound Cities Association should be listed as a regional engagement partner (beyond just “local jurisdictions”).

# DRAFT Scoping Document for Updating the Regional Wastewater Services Plan

*Draft Prepared by WTD for Discussion at RWQC Workshop 9/4/24*

## A. Introduction

This draft scoping document describes the overall approach that will be used and some of the major policy issues that will be analyzed to update King County's Regional Wastewater Services Plan (RWSP).

This draft document was produced to solicit input and feedback on the scope of the RWSP Update from members of the Regional Water Quality Committee (RWQC) and members of the Metropolitan Water Pollution Abatement Advisory Committee (MWPAAC). This scoping document will be discussed at the August 28 MWPAAC general meeting and the September 4 RWQC workshop, and possibly at future meetings and workshops. WTD is interested in hearing about the scope elements and major policy issues that RWQC and MWPAAC would like analyzed as part of the RWSP Update. WTD drafted this document based on initial verbal and written input heard to date from RWQC members and staff, MWPAAC members, and based on feedback obtained during and after the Clean Water Plan process. The draft document is designed to spark discussion and conversation. A revised version of this document will be presented after receiving feedback from MWPAAC and RWQC.

More detailed scopes of work for specific tasks will be developed as needed.

## Background

The RWSP, a supplement to the King County Comprehensive Water Pollution Abatement Plan, was adopted by the King County Council in November 1999 by Ordinance 13680, and the RWSP policies were subsequently codified in King County Code (KCC) chapter 28.86. The RWSP identifies projects and programs needed to provide wastewater capacity for homes and businesses in the wastewater service area through 2030 and provides policy direction for the operation and continued development of the wastewater system. The RWSP has largely been implemented, and it is now time to update the plan to guide future investments and actions. Changed conditions also justify another major update, including population growth, climate change, aging assets, regulatory requirements, and rate affordability.

An update to the RWSP will support the extension of local agency sewage disposal contracts, many of which expire in 2036, and continue to strengthen King County Wastewater Treatment Division's (WTD) relationship with local agencies. An update to the RWSP will also help make the case for additional state and federal funding and meet the requirements for a General Sewer Plan update for approval by Ecology.

The planning process started in 2019 as the Clean Water Plan and was paused at the end of 2021 to fully consider and address feedback received during the planning process. The pause in the Clean Water Plan process also provided an opportunity for more regulatory certainty regarding Combined Sewer Overflow (CSO) obligations and nutrient reduction obligations. The planning process restarted in 2024 as the RWSP Update planning effort and includes important adjustments intended to address feedback received

during the Clean Water Plan process. The current RWSP update planning process is generally similar to the process used to develop the 1999 RWSP.

## Project Objectives

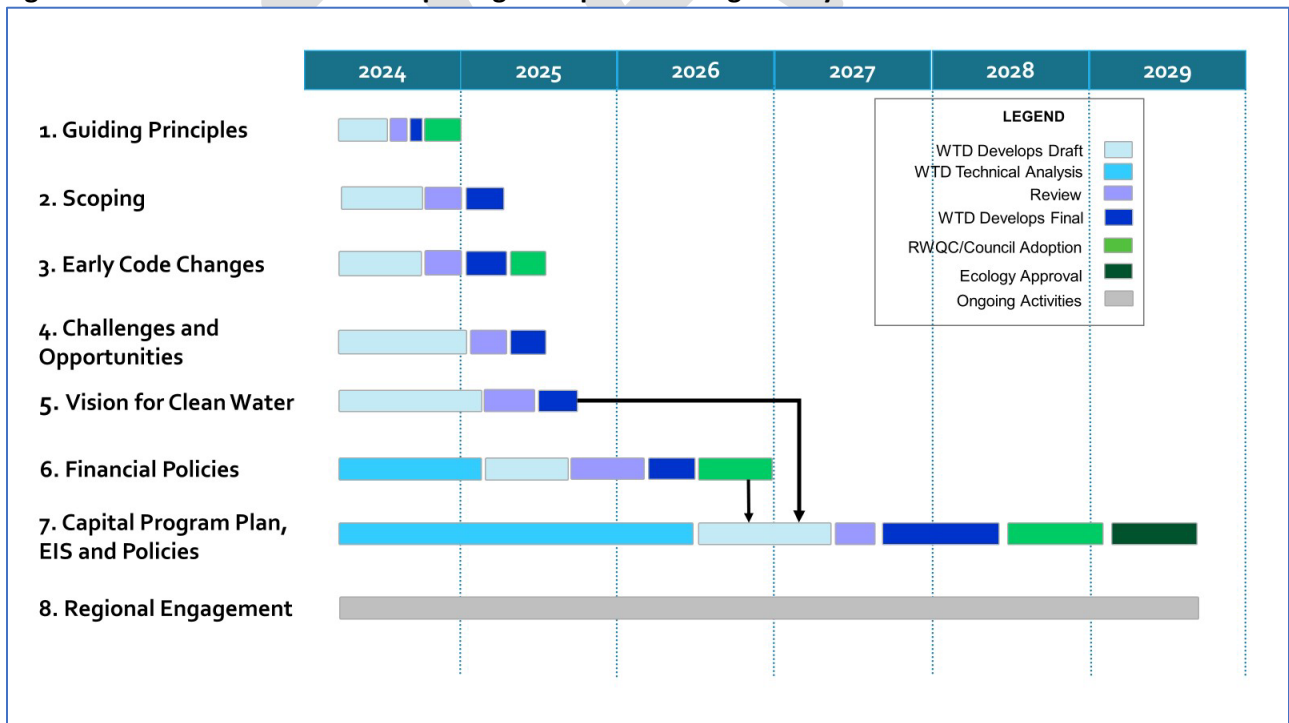
The overall project objectives are to develop a vision for WTD’s future, to develop an update to the RWSP, and to update the policies in King County Code 28.86. The project will define a future vision for the utility that is consistent with WTD’s mission – “We protect public health and the environment by collecting and cleaning wastewater while recovering valuable resources for a healthy and resilient Puget Sound.” The vision will inform policies and investments that are included in the final RWSP Update. The planning process will produce an RWSP update that will guide future investments, ensures the core mission to protect water quality; seeks to achieve affordable wastewater utility rates into the future; meets regulatory and legal obligations; and reflects County initiatives including equity, race and social justice; strategic climate action planning; and clean water, healthy habitat.

The resulting RWSP Update document will include the Vision for clean water, a capital investment plan, and policy updates to King County Code for Council review and approval. Once adopted by the Council, the document will be transmitted to the Washington State Department of Ecology for review and approval.

## Scope for the Effort

The planning process tasks are shown in Figure 1 and described below with the associated deliverables.

**Figure 1. Overall Schedule for Completing the Update to King County’s Wastewater Plan**



Tasks/Deliverables

1. Guiding Principles – The guiding principles will direct the process to update the RWSP and associated policies. The work includes:
  - Reviewing feedback from RWQC, component agencies, and interested parties received during the Clean Water Plan outreach process.
  - Developing draft guiding principles.
  - Soliciting feedback on draft guiding principles.
  - Finalizing guiding principles in the form of a resolution for RWQC consideration
  - Timeline: Final Completed in 4th Quarter 2024
  
2. Scoping – Scoping will identify the major issues that will be addressed and the process to address those issues in the effort. The work will include:
  - Developing a draft scoping document.
  - Soliciting feedback on the draft scoping document.
  - Finalizing the scoping document.
  - Timeline: Final Completed in 1st Quarter 2025
  
3. Early Code Changes – There are a small number of policies that are outdated because the work is complete. The early code changes will update the policies to reflect completed work. The early code changes are anticipated to be straightforward and do not require extensive analysis. The work will include:
  - Developing a list of policies for early code changes.
  - Drafting redline/strikeout edits to the identified policies.
  - Having MWPAAC review the redline/strikeout edits.
  - Finalizing the edits.
  - Developing and transmitting to Council an ordinance proposing the early code changes for adoption.
  - Timeline: Final Completed in 2nd Quarter 2025
  
4. Challenges and opportunities – This document will summarize the status of major challenges affecting the future of WTD’s wastewater system, projected trends for those challenges in the coming decades, emerging trends and potential opportunities for the future of water-sector utilities, and key questions to be explored in future regional discussions. Challenges and opportunities will inform the scope of work, policy analysis, investment plans and financial strategies. The work will include:
  - Reviewing relevant materials developed during the previous Clean Water Plan process.
  - Reviewing industry research on drivers and trends.
  - Updating information on the regional wastewater system.
  - Interviewing national water utility experts and thought leaders.
  - Listening sessions with interested and potentially affected parties.
  - Developing a draft challenges and opportunities document.
  - Soliciting feedback on the draft challenges and opportunities document.
  - Finalizing the challenges and opportunities document.
  - Timeline: Final Completed in 1st Quarter 2025.

## Guiding Principles – DRAFT RWQC RESOLUTION

### *Draft Prepared by WTD for Discussion at RWQC Workshop 9/4/24*

**A RESOLUTION adopting guiding principles for the update to the Regional Wastewater Services Plan and associated policies.**

WHEREAS, the regional water quality committee recognizes the critical importance of maintaining and enhancing its wastewater utility services to ensure public health, environmental protection and operational efficiency, and

WHEREAS, a comprehensive long-range plan for wastewater services is essential to effectively address current and future needs, including infrastructure improvements, regulatory compliance, affordability of long-term rates and sustainable practices, and

WHEREAS, the council adopted the Regional Wastewater Services Plan (“RWSP”) in November 1999 through Ordinance 13680, subsequently codified in K.C.C. chapter 28.86, and

WHEREAS, the RWSP, a supplement to the King County Comprehensive Water Pollution Abatement Plan originally adopted by the Municipality of Metropolitan Seattle, serves as the primary framework for guiding the future of the county’s wastewater utility and regional infrastructure, and

WHEREAS, the RWSP identifies projects and programs needed to provide wastewater treatment capacity for homes and businesses in the wastewater treatment division (WTD) service area through 2030, and

WHEREAS, the RWSP provides policy direction for the operation and continued development of the wastewater system and its capital improvement program, including financial policies to guide financial forecasting and budgeting, debt financing and borrowing and collection of revenue to support the implementation of the RWSP, and

WHEREAS, the RWSP must be updated and the associated policies in KCC 28.84 (Water Pollution Abatement) and 28.86 (Wastewater Treatment) must be examined to ensure investments in the wastewater system continue to improve water quality, ensure system performance, and to mitigate the impact of increasing sewer rates over the long term, and

WHEREAS, the wastewater treatment division has initiated the process to update the RWSP and review associated policies, and

WHEREAS, the regional water quality committee has a strong interest in ensuring the steps taken to update the plan are well coordinated and effective, and

WHEREAS, the plan update will benefit from guiding principles to ensure alignment with the community’s values, legal requirements and best practices in wastewater management, transparency and accountability in the planning process, and a clear basis for evaluating decisions and actions, and

WHEREAS, guiding principles will support engagement with interested and affected parties by ensuring that diverse perspectives are considered in the planning process, and

WHEREAS, wastewater treatment division has developed these guiding principles in consultation with the regional water quality committee, and

WHEREAS, these guiding principles were also informed by comments and input received from component agencies and interested parties during the Clean Water Plan outreach process, and

WHEREAS, these principles will help ensure that King County updates the plan in a collaborative and responsive way to guide future investments for decades, and

WHEREAS, the regional water quality committee has reviewed and considered the proposed guiding principles to steer the development and content of the long-range plan;

NOW, THEREFORE, BE IT RESOLVED by the King County Regional Water Quality Committee that the following Guiding Principles are adopted as follows:

**1. The process to update the RWSP and associated policies should:**

**1.1. Establish clear and transparent processes, roles, and decision-making responsibilities and authority.** The RWSP update process will establish and clearly communicate roles, responsibilities, and decision-making authority for all steps of the process. Roles and responsibilities include, but are not limited to, the following:

- *RWQC* will review and provide input on proposed RWSP policy changes and provide recommendations on policy amendments to the council.
- *The Metropolitan Water Pollution Abatement Advisory Committee* should review technical analyses, provide feedback on WTD work products and proposals and may present their recommendations for the Executive, WTD, and regional water quality committee's consideration.
- *WTD* will lead the RWSP Update planning effort, using these guiding principles and input from interested or affected parties to develop a vision, policies, and a plan to guide the future of the Division.
- *The King County Executive* will propose the vision, policies, and plan.

**1.2. Engage diverse voices and foster inclusive participation:** The process will ensure that community members have equitable opportunities to contribute to and inform the wastewater utility planning process. WTD will actively reach out to underrepresented groups and consider their needs and perspectives when creating the plan. Engagement will be guided by King County's Equity and Social Justice Strategic Plan.

**1.3. Listen to and respect all input:** The process will meaningfully reflect the input, ideas and feedback heard from participants throughout the wastewater planning process. This includes revisiting and re-engaging with individuals and groups who previously contributed to the Clean Water Plan, as well as reaching new interested parties. WTD will regularly solicit community feedback and integrate it into decision-making. The process will work to ensure that voices are heard and report back how input is considered and used.

**1.4. Understand the challenges and opportunities facing the regional wastewater system.** The process will develop a shared understanding of the key challenges or "drivers" for the planning process and the opportunities or range of possible future directions for the regional wastewater system over the next several decades. Having this common understanding will be an important foundation for developing a vision, and will inform the scope of work, policy analysis, investment plans and financial strategies.



- 1.5. **Develop a shared vision for the future.** The process will engage regional audiences to develop a long-term vision for future wastewater services, as well as identify high-level goals to achieve that vision, both of which will be included in the final RWSP update. The vision will be consistent with WTD's mission to protect public health and the environment by collecting and cleaning wastewater while recovering valuable resources for a healthy and resilient Puget Sound.
- 1.6. **Develop policy updates and a plan that aligns with the vision.** Guided by the vision and high-level goals, WTD will develop, evaluate, and select strategies that will guide WTD's investments into the future. WTD will collaborate with RWQC and MWPAAC to review and refine policies. WTD will also engage with interested and affected parties to collect feedback on the draft plan and ensure that proposed strategies are aligned with the high-level regional vision.
2. **The content of the update to the RWSP and associated policies should:**
  - 2.1. **Focus on wastewater services.** Focus on wastewater system issues and policies. Coordinate with and describe the relationship to the region's investments in stormwater, drinking water, and other water quality programs.
  - 2.2. **Protect and promote equity and social justice.** In 2010, King County Council adopted ordinance 16948, requiring the principles of equity and social justice to be included in all strategic planning, comprehensive planning and policy decisions at King County. These principles are outlined in the King County Equity and Social Justice Strategic Plan and will be embedded as an element of the plan.
  - 2.3. **Address affordability.** Evaluate trade-offs and investment sequencing to mitigate the impact of increasing sewer rates in the region. Evaluate and consider rate-relief approaches to improve affordability for those who struggle to pay their sewer bill.
  - 2.4. **Commit to meet regulatory obligations.** The plan will meet current and anticipated future regulatory obligations.
3. **Implementation and review:** The regional water quality committee shall periodically review and update these guiding principles to reflect evolving needs, conditions and best practices during the update of the RWSP and associated policies.

# PFAS and Contaminants of Emerging Concern

WTD and countywide response to King County Council Motion 16434

Regional Water Quality Committee  
October 2, 2024

Erika Kinno, Policy & Research Supervisor  
Resource Recovery Section

Megan Smith,  
Clean Water Healthy Habitat Lead



# Today's discussion

- PFAS/Contaminants of Emerging Concern (CECs) and the RWSP Update
- Overview of Motion 16434 requested actions
- WTD action in response
- Overview of countywide steps

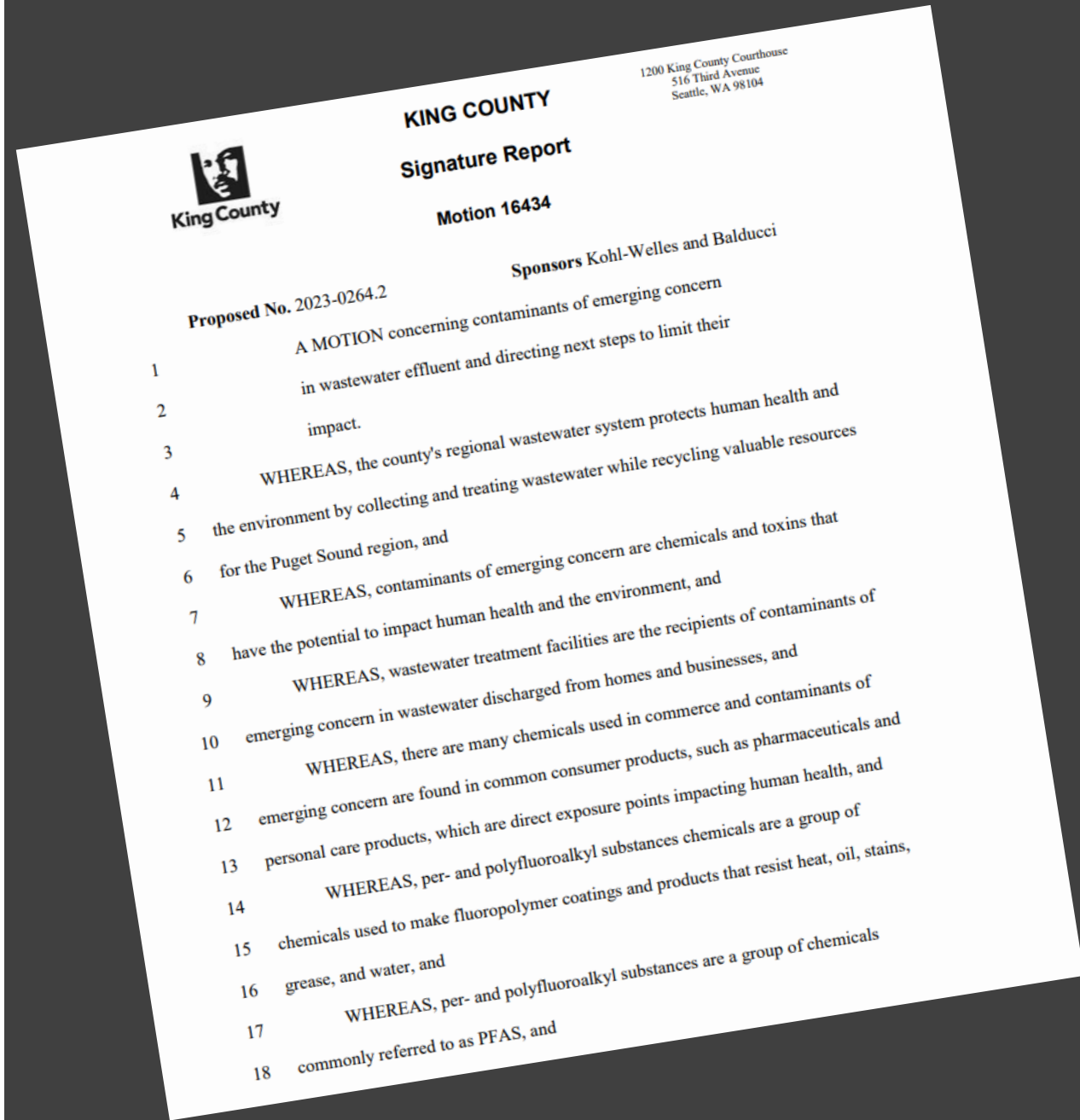
# PFAS/CECs and the RWSP Update

- PFAS/CECs identified in RWSP draft scoping document
- RWSP update will evaluate such things as:
  - Current and existing requirements
  - Planning for new and anticipated PFAS/CECs requirements  
Cost/benefit analyses of early/late action
  - Source Control Actions
    - Opportunities for regional partnerships
    - Education
    - Supporting and expanding State legislation

# Motion 16434

King County seeks to identify, prioritize, reduce, and control sources, exposures, and risk from PFAS and CECs to people and the environment in King County

- Nine requested actions to achieve goals





# Source control – best first step

- CECs come from upstream sources
- Most exposure risks to CECs are greater at their sources
- Source control is identified priority on every level—from federal to local
- Policy action and public education are key





# Action One

Seek operational, capital, or programmatic changes that may address PFAS

**WTD Actions:**  
Consider CECs in all planning efforts



An aerial photograph of a city, likely Seattle, showing a river, residential areas, and industrial zones. The city extends to the mountains in the distance under a clear sky.

# Action Two

Determine most significant sources, pathways, and exposures in King County

## WTD Actions:

- On-going monthly sampling
- Future sewershed and industrial surveying
- Completed study of Recycled Water vs. Sammamish River





# Actions Three- Five

Support source control measures

Support state/federal PFAS action plans

Engage in regulations and legislation

## WTD Actions:

Commenting on and supporting numerous state and federal efforts



# Action Six

Seek funding and producer responsibility for CEC mitigation

## WTD Actions:

Assisted King County in joining national suit against 3M

Supported Safer Products for Washington

A background image showing a pair of hands holding several small, pinkish-purple seeds. The hands are positioned in the lower half of the frame, with the fingers slightly curled. The background is a soft-focus, warm-toned bokeh of reds and oranges, suggesting an autumn setting with falling leaves.

# Action Seven

Coordinate and share strategy  
with other jurisdictions

**WTD Actions:**  
Brief MWPAAC  
Participate in Department of  
Ecology biosolids sampling





# Action Eight

Research treatment technologies

WTD Actions:  
Literature Reviews  
External Partnerships



# Action Nine

Educate residents and businesses  
about reducing CECs

WTD Actions:  
Website  
Specific infographics  
Countywide Communication Plan

# CECs Connect with Many Departments and Programs



# Countywide Actions: PFAS



## State Funding and Policy

Secured \$500,000 to the UW to study & develop mobile screening methods for consumer products.

Supported \$375,000 to Ecology to (a) ID priority consumer products for potential regulatory action and (b) strengthen disclosure requirements.

Policy bills: lead in cookware, PFAS in food packaging, toxic-free cosmetics



## Communications

Updating key messages, web page and public education campaign.

Recent Blog Post: Public Health Insider. [Ask a Tox Doc: Are “Forever Chemicals” in Takeout Food Containers?”](#)



## Procurement

Updated County’s Sustainable Purchasing Policy in 2023.

# Countywide Actions: PFAS, cont.



## Fire Fighting Foam

Fire fighting foam used in airport fire response is regulated by FAA, which recently approved PFAS-free foam.

King County International Airport is in process of transitioning to the new foam in coordination other airports in region.



## Lab Analysis Capacity

Lack of accredited labs has been a limiting factor for analyzing samples.

King County Environmental Laboratory has secured equipment, expertise, and is seeking accreditation to test for PFAS.



## Testing

King County is testing for PFAS in marine and freshwater fish, waste streams, and has secured grant for stormwater facility testing.



# Countywide Actions: Toxic Tire Dust or “6PPD-q”

- Secured grant funding and tested soil mix to filter roadway runoff.
- Testing stormwater facility for effectiveness in treating both 6PPD-q and PFAS.
- Updating County Stormwater Manual based on research.
- Mapping “hot spots” for roadway runoff.
- Developing countywide strategic plan.
- Partnering with Ecology's 6PPD-q Action Committee.



# CEC Framework in Development

## Approach and Principles:

- Proactive in identifying CECs
- Priorities informed by risk assessment
- Address sources as far upstream as possible
- Integrated approach across county programs
- Leverage county strengths
- Work in partnership with local governments, tribes, non-governmental organizations, universities







# Questions?

Erika Kinno, Policy & Research Supervisor  
Resource Recovery Section



Megan Smith,  
Clean Water Healthy Habitat Lead



# What are CECs?

- Unregulated or minimally regulated substances or materials that may pose risk
- Found in personal care, household, agricultural products, and more
- Widespread in environment, including wastewater
- Includes PFAS, 6PPD-q, microplastics, pharmaceuticals



**CLOTHING**



**FURNITURE**



**REPELLANTS**



**LUBRICANTS**



**PAINT**



**NON-STICK  
COOKWARE**



**CARPETING &  
RUGS**



**DENTAL FLOSS**



**COSMETICS**



**PIZZA BOXES**

# Not all CECs are the same. . .

## Variation in:

- Risks to human health and ecosystems
- Toxicity, prevalence, and community exposure in King County
- Pathways for chemicals entering environment (air, water, ingestion)
- Direct and indirect county influence on controlling sources
- Impacts and costs: county operations








# WTD Capital Improvement Program

Presented to the Regional Water Quality Committee

October 2, 2024



**King County**  
Department of  
Natural Resources and Parks  
**Wastewater Treatment Division**



# WTD Capital Improvement Program (CIP) Overview

- **Estimated \$10.5 billion in wastewater investments over 10 years to:**
  - Deliver projects and programs in response to permit requirements, regulations, and consent decree deadlines
  - Maintain level of service through the rehabilitation or replacement of critical assets, nearly all of which are necessary to ensure reliable functions, protect water quality, preserve critical assets, and keep staff safe
  - Increase capacity in WTD facilities to accommodate future growth and comply with contract obligations



# Sammamish Plateau Diversion Project (Phase 1)

- **Adding capacity to manage flows from East Lake Sammamish area**
  - New conveyance line will divert up to 9.14 million gallons per day (mgd) from Southwest Lake Sammamish to Brightwater Treatment Plant
  - 18,400 feet of pipeline to be constructed and a 7.8 mgd intermediate pump station
  - Will alleviate capacity issues at several conveyance facilities between Issaquah and South Treatment Plant
- **Budget**
  - Change in appropriation for 2025: Slight increase due to revised schedule assumptions
  - Appropriation request funds preliminary design activities
  - Estimate at completion: ~ \$106 million



# Elliott West Wet Weather Treatment Station Project

- **Upgrade to combined sewer overflow (CSO) treatment facility to meet permit requirements**

- Improving the facility through an upgraded screening facility, pump modifications, and adding high-rate clarification technology used at a Georgetown WWTS for solids removal.
- Replacing the existing onsite chlorine disinfection system with a new ultraviolet light (UV) disinfection system.
- Engineering report submitted to Ecology and is currently under review
- Ecology NPDES permit requires completion by 2031

- **Budget**

- Change in appropriation for 2025: Increase due to expedited timeline for completion under recent NPDES permit
- Appropriation request funds final design phase in 2025
- Estimate at completion: ~ \$493 million



# Mouth of the Duwamish CSO Project: Facility Plan

- **Facility Plan for constructing a project to control 5 CSO outfalls**

- King County's federal CSO consent decree requires control of Chelan, Hanford #2, Lander, Kingdome, and King Street outfalls
- Project will also control Seattle Public Utilities (SPU) outfall basins 99, 107 and 111, at the Mouth of Duwamish River, requiring a cost-share agreement.
- Facility plan necessary for regulatory approval of recommended alternative(s), allowing the County to move into final design
- System operational by 2034 per the Consent Decree

- **Budget:**

- Change in appropriation for 2025: No substantial change in cost for Facility Plan
- Appropriation request supports completion of alternatives evaluation and submittal of Facility Plan to Washington state Department of Ecology
- Estimate at completion: ~ \$40 million



# West Point Treatment Plant: Digestion Capacity Expansion Project

- **Increase solids capacity to serve growth in the region**

- Design and construct a solids processing system to increase capacity at West Point Treatment Plant
- Treatment Plant Flows and Loads study shows additional capacity is needed to meet NPDES permit requirements

- **Budget**

- Change in appropriation for 2025: Cost increased with completion of options analysis that further refined the project scope
- Appropriation request funds to support planning and preliminary design in 2025
- Estimate at completion: ~ \$330 million



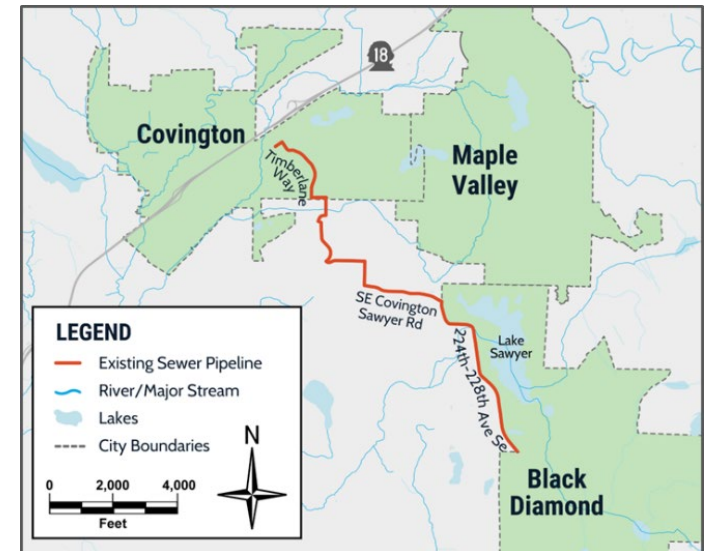
# Black Diamond Trunk Capacity Upgrade

- **Determine best alternative to add new capacity**

- Black Diamond Interceptor (wastewater pipe), built in 1992, has reached the end of its useful life and is not sufficiently sized to accommodate future flows
- Upgrade need for approximately 6 miles of conveyance pipe to serve population growth

- **Budget:**

- Change in appropriation for 2025: Cost increased with expanded project scope to serve substantial rise in population growth
- Appropriation request funds design and Pre-Construction services
- Estimate at completion: ~ \$167 million





# Ongoing Efforts related to WTD's Capital Program

- Pursue options to reduce utility costs for low-income households and new federal funding for wastewater infrastructure
- Consider community input and how the project can advance equity and social justice
- Engage in public outreach to make sure affected community members know about our capital projects
- Incorporate greenhouse gas reduction measures into its capital projects and operations
- Prepare for change by upgrading infrastructure, improving operating strategies and evaluating impacts at our facilities





For more information:

## Crystal Fleet

WTD Capital Portfolio Planning and Analysis Unit Manager

[Crystal.Fleet@kingcounty.gov](mailto:Crystal.Fleet@kingcounty.gov)



**King County**

Department of  
Natural Resources and Parks

**Wastewater Treatment Division**

RWOC Meeting Materials



## CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

### 2025 Annual Budget - Executive Proposed

3611 WATER QUALITY CONSTRUCTION - Wastewater Treatment				
Project Number	Project Name Class Code	Tech Adj	FY25	Narratives
1037498	<b>Structures / Site Improvement</b> PROGRAMMATIC		\$5,862,000	<p><b>Scope:</b> The Structures and Site Improvements Program includes projects that are focused on implementing modifications, improvements, or upgrades to the structures, buildings, and property owned by the Wastewater Treatment Division (WTD) necessary to meet operational needs. Other improvements may be required to bring the structures up to current code, increase safety, or minimize vandalism. The Roll-Up Project funds a number of subprojects that vary in value but are typically less than \$5,000,000 total project cost. The number of subprojects fluctuates as projects are completed and new subprojects are added through the New Project Request process. As a result, subprojects contained within this Roll-Up Project are in various phases from planning, design and through construction. In addition, the Roll-Up project is sometimes used to initiate upgrade or replacement projects throughout the year that may later develop into stand-alone projects.</p> <p><b>Description of Budget Request:</b> This is an ongoing program that funds multiple subprojects in all phases of project delivery. The total request is based on a combination of current existing subprojects, pending expected subprojects, and an analysis of historical program spending. The requested budget will fund structural and safety improvements to WTD structures for operational needs including replacing roofing over equipment and fence upgrades to improve facility security. Expenditures will include fully burdened staff labor, consultant contract, vendor contract, and construction contract expenditures. The Estimate at Completion has increased as additional years have been incorporated into the forecast.</p>
1037549	<b>Capital Project Oversight</b> STANDALONE		\$232,524	<p><b>Scope:</b> This project funds project oversight activities for the Wastewater Treatment Division Capital Improvement Program by the King County Auditor's Office. The project also supports Proviso P1, Section 110, Budget Ordinance 17941 (2014) related to improvements in WTD's planning and conceptual estimating processes, including communicating costs to upper management, a trend analysis program, and basis of estimate assumptions.</p> <p><b>Description of Budget Request:</b> The budget requested will support the County Council Auditors office body of work and recommendations. The Estimate at Completion has increased as additional years have been incorporated into the forecast.</p>
1037765	<b>Water Quality Capital Outlay</b> STANDALONE		\$167,000	<p><b>Scope:</b> This project provides funding for the replacement or acquisition of capital equipment or rolling stock for plant, operations, and engineering personnel. These are discrete purchases not included in a capital project budget and are not suitable for classification as a minor asset management (MAM) project.</p> <p><b>Description of Budget Request:</b> The budget requested is based on planned capital outlays and equipment replacement cost estimates and will include expenditures for vendor contracts. The Estimate at Completion has increased as additional years have been incorporated into the forecast.</p>

# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1037767	<b>Biosolids Site Development</b> STANDALONE		\$312,000	<p><b>Scope:</b> Work under this project provides planning, engineering, and geographic information systems services in support of the WTD biosolids forestry application program. It also provides funds for improvements to forestry sites to allow biosolids application, including the construction and reconstruction of trails/roads used by the application equipment.</p> <p><b>Description of Budget Request:</b> Projected spending includes fully burdened staff time, planning, engineering, and geographic information systems services in support of the WTD biosolids forestry application program. It also provides funds for improvements to forestry sites to allow biosolids application, including the construction and reconstruction of trails/roads used by the application equipment. The Estimate at Completion has increased as additional years have been incorporated into the forecast.</p>
1037789	<b>RWSP Conveyance System Improvements</b> PROGRAMMATIC		\$3,858,000	<p><b>Scope:</b> Conveyance system improvement planning is driven by the Regional Wastewater Service Plan's (RWSP) adopted conveyance standard of being able to convey the 20-year peak flow. For purposes of constructing facilities to meet future demand, the design standard used for planning new conveyance facilities is to accommodate the 20-year peak flow as projected in 2070. The year 2070 is based on 50 year planning horizon. A 50 year planning horizon is considered as a reasonable timeframe for modeling future wastewater flows. The program is a roll-up of sub-projects covering everything from staff labor to future capital projects and other expenses incurred to perform conveyance planning for the region. The Conveyance System Improvement (CSI) project provides an opportunity for the County and local agencies to jointly address common conveyance issues, leverage available resources, and minimize customer disruption. The County values and encourages local sewer agency involvement as planning in the wastewater service area moves forward. Project schedule dates reflect the activities of multiple sub-projects.</p> <p><b>Description of Budget Request:</b> This is an ongoing program that funds multiple subprojects. In 2025, this program is planning to continue progress on the next Conveyance System Improvements (CSI) Program Update as called for by the Regional Wastewater Service Plan (RWSP) Conveyance Policies to ensure the program remains current (KCC 28.86.060 B.). The requested budget will fund activities to inform and conduct comprehensive planning activities to meet RWSP requirements for the separated sewer system. These include the collection and analysis of flow data, GIS mapping and analysis, planning studies, and the problem definition for future CSI capital projects. Expenditures will include fully burdened staff labor, consultant contracting, and vendor contract expenditures. The Estimate at Completion has increased as additional years have been incorporated into the forecast.</p>



# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1038098	<b>CSO Control &amp; Improvement</b> PROGRAMMATIC		\$4,083,000	<p><b>Scope:</b> The aim of this programmatic initiative is to offer modeling and technical support for the Combined Sewer Overflow (CSO) program, which will inform future capital projects within the CSO Long-Term Control Plan (LTCP). This plan is being executed to comply with the stipulations of the County's 2013 federal Consent Decree.</p> <p><b>Description of Budget Request:</b> This is an ongoing program that funds multiple subprojects. The requested budget will fund planning activities for future CSO projects that include developing and updating models of the combined sewer system, developing CSO-related GIS data, and performing conveyance inspection and flow monitoring that will support CSO projects. Expenditures will include fully burdened staff labor, consultant contracting and vendor contracting expenditures. The Estimate at Completion has increased as additional years have been incorporated into the forecast.</p>
1038099	<b>Mitigation Site Maintenance and Monitoring</b> STANDALONE		\$3,066,000	<p><b>Scope:</b> Major capital projects in the Wastewater Treatment Division sometimes impact critical areas (e.g. streams, wetlands, steep slopes and their buffers) leading to permit conditions that require long-term monitoring and maintenance of mitigation sites. The Mitigation and Monitoring Program (Program) ensures performance standards outlined in permits are met. The Mitigation Site Maintenance and Monitoring Program is ongoing. Each year there is a potential for additional mitigation sites to be added if a Wastewater Treatment Division project will occur within critical areas or their buffers.</p> <p><b>Description of Budget Request:</b> The appropriation requested will be used to initiate work on four new mitigation/restoration sites and support routine and contingency actions on existing sites. Expenditures will include fully burdened staff labor, consultant contract, vendor contract, and construction contract expenditures. The Estimate at Completion has increased as additional years have been incorporated into the forecast.</p>
1038294	<b>Non-Project Specific - NOAA</b> STANDALONE		\$201,481	<p><b>Scope:</b> The Elliott Bay / Duwamish River Restoration Program (EBDRP) panel convened by the National Oceanic and Atmospheric Administration (NOAA) meets four times per year to discuss issues related to work, reimbursement from the panel, stewardship of restoration sites under King County ownership, and monitoring of sediment remediation conducted by the County.</p> <p><b>Description of Budget Request:</b> The requested appropriation will fund the last year of sampling that is required to do every 5 years. Projected spending includes fully burdened staff time and miscellaneous materials.</p>
1038295	<b>Biosolids Forestry Equipment</b> STANDALONE		\$210,000	<p><b>Scope:</b> The Biosolids Forestry Equipment project provides funding for the refurbishment and purchase of equipment for biosolids application in forestry environments. Forestry equipment needs regular parts replacement from regular use in rugged settings. Properly maintained equipment provides for predictable, safe, and efficient operations.</p> <p><b>Description of Budget Request:</b> This is an ongoing project without typical phases. The requested budget will be used to fund the planned purchase and major refurbishment of forestry biosolids application equipment such as applicators and excavators. The Estimate at Completion has increased as additional years have been incorporated into the forecast.</p>

# CAP Summary by Fund

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## 2025 Annual Budget - Executive Proposed

1038335	<b>Electrical / I&amp;C PROGRAMMATIC</b>		\$1,537,000	<p><b>Scope:</b> The Electrical and Instrumentation and Control (I&amp;C) Program includes asset management projects that enhance the treatment process, overhaul or replacing failed electrical and I&amp;C equipment or electrical I&amp;C equipment that has reached the end of its useful life, improve safety, reliability, efficiency or increase redundancy of the electrical I&amp;C systems and code required upgrades for electrical I&amp;C equipment. This “Rollup Project” funds a number of electrical and I&amp;C subprojects that vary in dollar value but are typically less than \$5,000,000. The number of subprojects fluctuates as projects are completed and new subprojects are added through the project work request process. As a result, subprojects contained within this project number are in various states of design, from planning to construction. In addition, this project number is used to initiate electrical I&amp;C subprojects throughout the year that develop into standalone projects.</p> <p><b>Description of Budget Request:</b> This is an ongoing program that funds multiple subprojects in all phases of project delivery. The total request is based on a combination of current existing subprojects, pending expected subprojects, and an analysis of historical program spending. The requested budget will fund electrical and instrumentation and control improvements including uninterruptable power supplies and fire alarm system replacements. Expenditures will include fully burdened staff labor, consultant contract, vendor contract, and construction contract costs. The Estimate at Completion has increased as additional years have been incorporated into the forecast.</p>
1113196	<b>Mechanical Upgrade &amp; Replacement PROGRAMMATIC</b>		\$10,060,000	<p><b>Scope:</b> The Mechanical Upgrade and Replacement Program includes asset management project that replace or upgrade mechanical systems at wastewater facilities that have served their useful life such as pumping systems, hydraulic systems, and heating and ventilation systems; improve efficiency, provide safety for operators and upgrades to meet current codes. This “Roll-Up Project” funds a number of mechanical upgrade and replacement subprojects that vary in dollar value, but are typically less than \$5,000,000. The number of subprojects fluctuates as projects are completed and new subprojects are added through the New Project Request process. As a result, subprojects contained within this project number are in various phases from planning, design, and to construction. In addition, this Roll-Up project is used to initiate mechanical upgrade and replacement subprojects throughout the year that may later develop into stand alone projects.</p> <p><b>Description of Budget Request:</b> This is an ongoing program that funds multiple subprojects in all phases of project delivery. The total request is based on a combination of current existing subprojects, pending expected subprojects, and an analysis of historical program spending. The requested budget will fund mechanical equipment improvements including a pump header replacement and a fire suppression system replacement. Expenditures will include fully burdened staff labor, consultant contract, vendor contract, and construction contract costs. The Estimate at Completion has increased as additional years have been incorporated into the forecast.</p>

# CAP Summary by Fund

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## 2025 Annual Budget - Executive Proposed

1113334	<b>Comp Planning &amp; Reporting</b> PROGRAMMATIC		\$879,000	<p><b>Scope:</b> This programmatic project resources the Wastewater Treatment Division's (WTD) comprehensive planning functions. The planning functions include on-going planning and reporting for combined sewer overflow control. This project also supports planning for potential changes to water quality regulatory requirements, and policy development and planning level coordination for WTD. The program supports coordination efforts with Seattle Public Utilities (SPU) including short- and long-term planning and regulatory coordination. Any new initiatives or capital planning requirements fall under this program.</p> <p><b>Description of Budget Request:</b> This is an ongoing program that funds multiple planning subprojects. The requested appropriation will fund subprojects that will deliver a series of planning support materials for combined sewer overflow (CSO) program implementation components, CSO long-term control plan, water quality analysis planning efforts, climate change planning efforts, and implementation of the Rainwise program. Expenditures will include fully burdened staff labor, consultant and vendor contracting costs. The Estimate at Completion has increased as additional years have been incorporated into the forecast.</p>
1127489	<b>West Point Primary Sedimentation Area Roof Structure</b> STANDALONE		\$8,393,341	<p><b>Scope:</b> West Point Primary Sedimentation Area Roof Structure - The scope of the Primary Sedimentation Area Roof Structure project includes two main parts. The first part involves seismically retrofitting and removing the east and west primary sedimentation roof structures, while accommodating the existing electrical conduits and piping. This phase also includes the replacement of odor control ducting, removal of concrete framing elements (z-beams, girders, and columns), and installation of a partial roof canopy over the influent ends of the East and West Primary Sedimentation basins. The second part, the Primary Tank Coating, involves applying a protective coating to the annular space of the sedimentation tanks to enhance their durability and extend their operational life.</p> <p><b>Description of Budget Request:</b> The requested funds will cover the completion of the construction project, including fully burdened staff labor and construction contract expenses. Since the last budget, the project's Estimate at Completion has increased. Material price increases and supply chain disruptions for roofing and odor control ductwork have led to increased construction costs and schedule delays. Additionally, coating work has been postponed to align with other critical projects at the West Point Treatment Plant, further contributing to cost escalations due to the delays.</p>

# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1129528	<b>Small Generator Replacement at Various Offsite Stations</b> PROGRAMMATIC		\$669,000	<p><b>Scope:</b> The program will replace small standby generators at 15 regulator stations (RS) and outfalls in Seattle. It currently has three subprojects, which groups installation sites to streamline design, permitting, and construction processes. The sites include Ballard Regulator Station, Lake City Tunnel Regulator Station, Montlake Boulevard Regulator Station, Norfolk Street Regulator Station, 8th Avenue South Regulator Station, Brandon Street Outfall Station, Chelan Regulator Station, Connecticut Street Regulator Station, Dexter Avenue Regulator Station, Hanford Street Outfall Station, Hanford Street Regulator Station, Harbor Avenue Regulator Station, King Street Regulator Station, South Michigan Street Outfall Station, and South Michigan Street Regulator Station.</p> <p><b>Description of Budget Request:</b> This request for appropriation is to support the preliminary and final design and implementation of subprojects in 2025. Projected spending includes fully burdened staff time. The appropriation request is based on analysis of the project schedule, spending, contingency, budget carryover amount, and implementation contracting. The Estimate at Completion has increased since the last budget due to estimate updates as program scope has been developed and anticipated cost increases driven by ongoing price escalation for electrical generating equipment.</p>
1129534	<b>Sammamish Plateau Diversion</b> STANDALONE		\$417,000	<p><b>Scope:</b> This project will design and build a conveyance line capable of diverting up to 9.14 mgd of flow from the Southwest Lake Sammamish area north to the Brightwater Treatment plant using the following elements:          Reach 1: 24-inch diameter, 8,600-foot gravity pipeline running north to a newly constructed 7.8 mgd intermediate pump station.          Reach 2: 8 and 16-inch diameter, 1,600-foot parallel force mains and discharge structure.          Reach 3: 27-inch diameter, 8,200-foot gravity pipeline and connection structure.</p> <p><b>Description of Budget Request:</b> The appropriation request will fund preliminary design activities. Expenditures will include fully burdened staff labor and consultant contract costs. The project Estimate at Completion has increased slightly since the last budget, primarily due to shifting the timing of expenditures based on revised schedule assumptions, which include additional escalation. The next construction cost estimate update is anticipated at Gate 2 in 2025 and will include updates to the assumed scope of the project based on the recommended alternative.</p>



# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1129538	<b>Technology Assessment and Innovation Project</b> STANDALONE		\$2,744,000	<p><b>Scope:</b> The Technology Assessment and Innovation Program (TAIP) is involved in numerous concurrent testing and technology assessment activities, including evaluation of technologies and process changes that can improve the performance or reduce the operating costs of wastewater treatment. Recent TAIP examples include the areas of energy/resource recovery, biosolids management, wastewater systems optimization, and nutrient management.</p> <p><b>Description of Budget Request:</b> The budget requested will allow the Technology Assessment and Innovation Program to support the Wastewater Treatment Division by evaluating nitrogen removal technologies, supporting treatment plant operations staff in troubleshooting and optimizing existing treatment processes, and testing new technologies of particular interest. During 2025, the budget will pay for technology assessment staff labor and procurement of instrumentation and operation of pilot processes, including upgrades to the pilot test facility located at West Point Treatment Plant and testing of secondary process alternatives to address requirements outlined in the Puget Sound Nutrient General Permit (PSNGP) as it applies to King County treatment plants. Expenditures will include fully burdened staff labor, consultant contract, construction contract, and vendor contract costs. The Estimate at Completion has increased as additional years have been incorporated into the forecast.</p>
1134072	<b>WPTP Passive Weir for Emergency Bypass</b> STANDALONE		\$9,552,410	<p><b>Scope:</b> WPTP Passive Weir for Emergency Bypass - This project will plan, design, and construct a passive bypass weir on the Emergency Bypass Channel to protect the West Point Treatment Plant (WPTP) from flooding in the event of a failure of the Emergency Bypass gate (EB) and all other gates in the Influent Control Structure (ICS). The project will also route the drainage pipeline of the Multi-Use Facility area into the Influent Control Structure for treatment.</p> <p><b>Description of Budget Request:</b> The requested appropriation will support construction and closeout. The project cost has increased substantially since the original cost estimate was completed in 2022 and 100% design construction costs were updated in March 2024. Drivers for the cost increase are labor costs, material prices, and working within confined space in the channel. Expenditures will include fully burdened staff labor and construction contract costs.</p>
1134073	<b>VFD Replacement</b> STANDALONE		\$1,218,837	<p><b>Scope:</b> This program will proactively replace low voltage (less than 480 volt) variable frequency drives (VFDs) through the King County Wastewater Treatment Division's (WTD) system that have reached the end of their expected life.</p> <p><b>Description of Budget Request:</b> The program is a division wide asset lifecycle management program that is in implementation phase. The requested appropriation is to complete planned asset replacements as they approach their end of life.</p>

# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1134074	<b>BW Reclaimed Water Storage</b> STANDALONE		\$35,934,989	<p><b>Scope:</b> The purpose of this project is to install storage and associated pumping and/or disinfection (if needed) for the Brightwater reclaimed water distribution system to increase reliable delivery of reclaimed water to customers in the Sammamish Valley.</p> <p><b>Description of Budget Request:</b> The 2025 budget request will fund final design and construction. Expenditures include fully burdened staff labor, consultant contract, and construction costs. The Estimate at Completion has not significantly changed since the last budget request.</p>
1136151	<b>Black Diamond Payments</b> STANDALONE		\$267,000	<p><b>Scope:</b> This project commits funds for the payment of Soos Creek Water &amp; Sewer District (District) for the use, design, construction, operation, maintenance, and depreciation of the District Conveyance Facilities and to provide reimbursement of appropriate capital costs incurred by the District for the County's use of such facilities. The Parties agree that the County will only pay that portion of the District's capital costs related to improvements which are necessary to convey the County's regional wastewater flows from Black Diamond. The Parties understand and expect that the District's customer base will increase during the time of this Agreement and the District will be solely responsible for the cost of construction of the District's Conveyance Facilities necessary to meet the capacity needs of the District's increased customer base.</p> <p><b>Description of Budget Request:</b> The appropriation request is based on historical reimbursement to the Soos Creek Water District for the capital and operating costs per a Council-approved interlocal agreement between the County and the District.</p>
1139043	<b>Elliott West CSO Control Planning and Alternatives</b> STANDALONE		\$18,830,000	<p><b>Scope:</b> The Elliott West Wet Weather Treatment Station (EWWTS) Project consists of new and upgraded treatment facilities to treat combined sewer overflows (CSOs) prior to discharge through the existing outfall in Elliott Bay in Seattle. The Project will replace and upgrade the screening facility, complete pump modifications, add ballasted sedimentation technology for solids removal, replace the existing onsite chlorine disinfection system with a new ultraviolet light (UV) disinfection system, complete electrical upgrades, and complete modifications to the operation of the Mercer Street Tunnel for additional equalization.</p> <p><b>Description of Budget Request:</b> This project is seeking appropriation to support the final design phase in 2025. The expenditures will cover fully burdened staff labor and consultant contract costs. The Estimated Cost at Completion (EAC) has increased since the previous budget request due to a scope change. Initially, the project aimed to deliver a facility plan as mandated by the Department of Ecology, with the expectation that work would stop upon completion and resume later under a separate project. However, since the last budget, the issuance of the new West Point National Pollutant Discharge Elimination System (NPDES) permit has expedited the project's timeline. The scope now includes the final design and construction of the new facility, and the EAC has been adjusted to reflect the expanded scope necessary to achieve the project's objectives.</p>

# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1139051	<b>West Point EPS Isolation Gate Rehabilitation</b> STANDALONE		\$16,968,575	<p><b>Scope:</b> This project will plan, design, and implement necessary refurbishments to restore full functionality to the Effluent Pump Station (EPS) isolation gates at West Point Treatment Plant in Seattle. A permanent dewatering pump will also be installed for future use for dewatering the wet wells. These gates are used to isolate the EPS pumps so that pumps can be taken offline for maintenance.</p> <p><b>Description of Budget Request:</b> This project seeks appropriation to support its design and construction phases. The expenditures will encompass all-inclusive staff labor and contractual costs. The Estimate at Completion has risen compared to the previous budget proposal, due to additional scope identified during the preliminary design that is essential for achieving the project objectives. This includes the use of a cofferdam to isolate the work area, the installation of a permanent dewatering pump for subsequent operations, and the creation of new wet well openings to improve access for future maintenance.</p>
1139052	<b>WPTP Instrument &amp; Service Air Replacement</b> STANDALONE		\$3,793,000	<p><b>Scope:</b> This project will plan, design, and implement all work necessary to replace or refurbish the existing instrument and service air (IA/SA) system equipment at West Point Treatment Plant. This equipment includes compressors, air dryers, and associated mechanical, electrical, and piping.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support final design in the 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for implementation and close-out phases. The Estimate at Completion has increased since the last budget, this is driven by additional scope necessary to address conflicts with other critical work at West Point Treatment Plant.</p>
1139054	<b>HVAC Replacements and Refurbishments</b> PROGRAMMATIC		\$1,530,000	<p><b>Scope:</b> The primary scope of this programmatic project is to strategically replace failing critical infrastructure within the Wastewater Treatment Division's (WTD)'s heating, ventilation, and air conditioning (HVAC) systems. This programmatic project or "roll-up" will be ongoing in order to keep HVAC systems operating as designed.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design, implementation, and close-out phases. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed during project design.</p>
1139063	<b>Matthews Park PS Odor Control Replacement</b> STANDALONE		\$454,000	<p><b>Scope:</b> The objective of this project is to extend the useful life or replace the odor control system at the Matthews Park Pump Station (PS) in the Sand Point neighborhood of Seattle.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design, implementation, and close-out phases. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed during project design.</p>

# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1139064	<b>South Plant Raw Sewage Pump #3 Replacement</b> STANDALONE		\$1,833,000	<p><b>Scope:</b> The primary objective of this project is to replace raw sewage pump (RSP) #3 and associated equipment at South Treatment Plant (STP) in order to continue to provide safe, reliable, and energy-efficient wastewater treatment.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in 2025. Further appropriation may be requested in future budget cycles for an alternatives analysis, final design, and implementation. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed during project design.</p>
1139098	<b>Offsite Level Controls and Communication Upgrade</b> PROGRAMMATIC		\$2,805,000	<p><b>Scope:</b> The scope of this program is to bring all offsite facility wet well level controls and communications equipment into conformance with WTD Design Standards to improve safety, reliability, and operability. This program will replace obsolete level controls and communications equipment at Pump Stations (PS), Regulator Stations (RS), and Combined Sewer Overflow (CSO) facilities located throughout the service area. This programmatic project will group upgrades at multiple facilities into subprojects.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support preliminary design in 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design and implementation. The project Estimate at Completion has increased slightly since the last budget, primarily due to shifting the timing of expenditures based on revised schedule assumptions, which include additional escalation.</p>
1139101	<b>Lakeland Hills PS Facility Replacement</b> STANDALONE		\$1,186,000	<p><b>Scope:</b> The objective of this project is to replace the existing Lakeland Hills Pump Station in Auburn, WA. The pump station's assets are at the end of their lives, obsolete, and not being supported by the original equipment manufacturers. The new project will also include an evaluation of the existing force main and an investigation and evaluation for relocation of the pump station as part of the alternative analysis phase. The project will also evaluate the feasibility of moving the pump station outside of the current park property. This project has been identified as one of the best opportunities at WTD for advancing King County's Equity and Social Justice and sustainability goals.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support preliminary design in 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design and implementation. The project Estimate at Completion has increased slightly since the last budget, including shifting the timing of expenditures based on revised schedule assumptions, which include additional escalation.</p>



# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1139106	<b>Brightwater Neuros NX-300 Blower Replacement</b> STANDALONE		\$680,001	<p><b>Scope:</b> This project will replace seven first generation Neuros NX300 blowers with modern turbo blowers that are easier and less expensive to maintain at the Brightwater Treatment Plant in Woodinville, WA.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design, implementation, and close-out phases. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed during project design.</p>
1141134	<b>West Point Electrical Improvements</b> STANDALONE		\$56,795,000	<p><b>Scope:</b> This project will replace approximately 300 electrical assets, relocate nine electrical assets, and coordinate these efforts with other electrical and asset replacement projects at West Point Treatment Plant (WPTP) in Seattle.</p> <p><b>Description of Budget Request:</b> This project is seeking appropriation to support final design and construction activities in 2025. The projected expenditures encompass fully burdened staff hours and costs for consultant and construction contracts. The estimated total cost of the project at completion has risen since the previous budget proposal. The earlier budget was predicated on a conceptual scope devised in late 2019. Following the recent completion of the alternatives analysis, significant changes have been made, including the addition of equipment that has aged beyond its engineered lifespan and a revision of material costs. A substantial portion of the materials for this project are electrical, which have experienced inflationary costs from 2020 to the present, exceeding the historical 3% annual escalation projections.</p>
1141884	<b>WPTP Grit Classifier Replacement</b> STANDALONE		\$2,085,138	<p><b>Scope:</b> WPTP Grit Classifier Replacement - This project will plan, design, and implement all work necessary to replace or refurbish failing grit classifiers, cyclones, and grit hopper gates at West Point. This project will also implement modifications to associated structural, mechanical, electrical, and process equipment related to the grit classifier, piping, and equipment. The grit classifier equipment removes heavy inorganic materials, such as sand, gravel, and minerals from the wastewater flow during preliminary treatment.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support final design and implementation in 2025. Projected spending includes fully burdened staff time and construction materials. The Estimate at Completion for the project has increased since the last budget due to additional design scope, higher equipment costs, and anticipated labor cost escalations stemming from market fluctuations in materials and labor.</p>

# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1143830	<b>WPTP Critical Gate Refurbishment</b> STANDALONE		\$75,918,001	<p><b>Scope:</b> The objective of this project is to restore full functionality to critical treatment plant wastewater flow control gates and their support systems at the West Point Treatment Plant in Seattle. Support systems include operators, hydraulics, and controls.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support design and construction. The project needs the appropriation to cover the construction contract to issue a notice to proceed (NTP). Expenditures will include fully burdened staff labor and contract costs. The Estimate at Completion has been updated from the previous budget request due to a scope revision following the Formulation phase in 2022. The updated scope now accounts for the temporary diversion and containment of flows during construction, risk item allowances such as controls replacements if necessary, and the contractor's general conditions and overhead not previously included. Additionally, the formulation estimate has factored in material price increases exceeding the historical annual 3% escalation observed from 2019, when the initial estimate was made, to 2022, when the formulation estimate was completed.</p>
1143831	<b>SP RAS Pods 1-4 Piping and Component Replacement</b> STANDALONE		\$2,419,000	<p><b>Scope:</b> This project will replace the Return Activated Sludge (RAS) piping and related components from each RAS pump to the RAS headbox. This includes valves and flow meters on 32 RAS pumps at the South Treatment Plant.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support preliminary design in the 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design and implementation. The project Estimate at Completion has increased slightly since the last budget, primarily due to shifting the timing of expenditures based on revised schedule assumptions, which include additional escalation.</p>
1143832	<b>WPTP Oxygen Generation System Refurbishment</b> STANDALONE		\$5,937,000	<p><b>Scope:</b> This project will refurbish or replace oxygen generation components at the West Point Treatment Plant. Components include the feed air blower system, the adsorber system, the vacuum pump system, the liquid oxygen (LOX) system, the instrument air system, and the heating, ventilating, and air conditioning (HVAC) system components. The project will mitigate future equipment failures that could reduce plant capacity and impact control of sewage flows into the treatment plant.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support preliminary and final design in the 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for implementation and close-out phases.</p>
1143833	<b>Ovation Evergreen Control Systems Lifecycle Management Program</b> PROGRAMMATIC		\$16,000,000	<p><b>Scope:</b> The objective of this program is to systematically replace critical hardware components and obsolete software in the Ovation control systems at the West Point Treatment Plant (Seattle), South Treatment Plant (Renton), and Brightwater Treatment Plant (Woodinville).</p> <p><b>Description of Budget Request:</b> This program is requesting appropriation for staff labor and issuance of construction notice to proceed in the 2023-2024 biennium. The total requested amount is based on a list of pending expected subprojects that will proactively maintain control systems across Wastewater Treatment Division's three regional treatment plants.</p>

# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1143834	<b>West Point Digestion Capacity Expansion</b> PROGRAMMATIC		\$2,859,000	<p><b>Scope:</b> The objective of this project is to design and construct a solids processing system to increase digestion capacity at West Point Treatment Plant (West Point). The Treatment Plant Flows and Loads study concluded that West Point digestion capacity is currently approaching its solids loading limit. The recommended alternative is Thermophilic Phased Anaerobic Digestion (TPAD) with Batch Tanks to provide long term digestion capacity and Class A biosolids.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in the 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design and implementation. The project's Estimate at Completion has increased since the last budget. The original EAC was a rough order of magnitude estimate completed prior to the planning level options analysis. Since that time, WTD has completed the options analysis, which has defined some high-level scope assumptions. The current estimate is based on the concept defined during the options analysis.</p>
1143860	<b>Mouth of the Duwamish Facility Plan</b> STANDALONE		\$15,533,979	<p><b>Scope:</b> This project will develop a Facility Plan (Engineering Report) per WAC 173-240-060 to achieve the greatest reasonable reduction for the King County CSO outfalls, Chelan, Hanford #2, Lander, Kingdome, King Street, and Seattle Public Utilities (SPU) outfall basins 99, 107 and 111, at the Mouth of Duwamish River. The Facility Plan(s) will form the basis for regulatory approval of the recommended alternative(s) and enable King County Wastewater Treatment Division (WTD) to proceed to final design and ultimately construct CSO control facilities in accordance with the Consent Decree.</p> <p><b>Description of Budget Request:</b> The requested appropriation will support to complete alternatives evaluation and submit the Facility Plan to the Department of Ecology. Project expenditures include fully burdened staff labor and consultant contract costs. The Estimate at Completion has not substantially changed from the previous budget request.</p>
1143862	<b>Division-Wide UPS Replacement Program</b> PROGRAMMATIC		\$1,450,000	<p><b>Scope:</b> The scope of this program is to track and monitor all uninterruptible power supplies (UPSs) as they approach their end of life and proactively replace them.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support preliminary design in the 2025. Projected spending includes fully burdened staff time. Further appropriation may be requested in future budget cycles for final design, and implementation. The project Estimate at Completion (EAC) has increased since the last budget. The EAC at the time of the last budget was an initial rough order of magnitude. Since the budget was submitted, this program completed capital project formulation, which developed conceptual scope assumptions upon which the current estimate is based.</p>

# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1143865	<b>Black Diamond Trunk Capacity Upgrade</b> STANDALONE		\$14,597,001	<p><b>Scope:</b> The Black Diamond Interceptor, built in 1992, has reached the end of its useful life and is not sufficiently sized to accommodate the projected sewer flows. This project will determine the best available alternative to upgrade the capacity of approximately six miles of 10-16 inch conveyance pipe to provide the needed conveyance capacity for the contributing area, taking into account future population growth.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support design and General Contractor/Construction Manager (GC/CM) Pre-Construction service in 2025. Expenditures will include fully burdened staff labor and contract costs. The project's Estimate at Completion has risen compared to the previous budget proposal. The initial estimate has been adjusted due to a substantial rise in the projected population growth, which has expanded the project's scope.</p>
1143866	<b>WP Biogas Utilization Improvement Project</b> STANDALONE		\$5,531,000	<p><b>Scope:</b> The scope of this project is to design, install, and test a demonstration-scale microturbine system and replace the existing Cogen chillers to increase the beneficial use of biogas at the West Point Treatment Plant (WP) while improving the operational stability across the system as these efforts are designed and implemented.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support design and construction. The requested appropriation will cover the construction contract to issue a notice to proceed (NTP). Expenditures will include fully burdened staff labor and contract costs.</p>
1144008	<b>WTD Electric Vehicle Charging Stations</b> STANDALONE		\$378,000	<p><b>Scope:</b> This project will install Electric Vehicle (EV) charging infrastructure at WTD managed facilities to support the transition of WTD light duty vehicles to electric.</p> <p><b>Description of Budget Request:</b> The budget requested will be used for project planning and implementation. Expenses will include fully burdened staff labor and construction contracting.</p>
1144157	<b>Murray Forcemain Rehabilitation</b> STANDALONE		\$3,158,623	<p><b>Scope:</b> Project will structurally rehabilitate approximately 1,150 linear feet of the existing 27-inch diameter east force main for the Murray Pump Station in Seattle.</p> <p><b>Description of Budget Request:</b> The requested appropriation in the 2025 will support construction and close out of this project. The expenditures will include fully burdened staff labor and construction contract costs. The Estimate at Completion (EAC) of this project has increased since the last budget. The increased cost is mainly driven by higher-than-expected design complexity which increased the scope and the level of design effort. This added complexity has also resulted in the project to be delivered in two phases, extending the schedule and adding escalation.</p>
1145965	<b>Soos Creek Cascade Relief Interceptor No. 2 Upgrade</b> STANDALONE		\$6,101,001	<p><b>Scope:</b> Per an interlocal agreement this project will provide funding for and review of the Soos Creek Water and Sewer District design and construction effort of the Cascade Relief Interceptor No. 2 upgrade in Kent. The conceptual scope includes a parallel wastewater conveyance pipe constructed to increase flow capacity to accommodate population growth in the Black Diamond area.</p> <p><b>Description of Budget Request:</b> The requested appropriation will fund design and construction. Expenditures will include fully burdened staff labor and payments to Soos Creek Water &amp; Sewer District (SCWSD) per the interlocal agreement.</p>



# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1148136	<b>Force Main Inspection Access</b> STANDALONE		\$2,030,000	<p><b>Scope:</b> This project will improve and/or install inspection access to 26 force main structures throughout King and Snohomish counties. Inspection access is critical to planning and implementing needed force main repairs and replacements.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design and implementation. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed during project design.</p>
1148138	<b>Brightwater Operations Center Roof &amp; HVAC Replacement</b> STANDALONE		\$1,112,000	<p><b>Scope:</b> This project will replace the roof and associated heating, ventilation, and air conditioning (HVAC) equipment on top of the Brightwater Treatment Plant Operations Center (BOC). The project will also remove a number of decommissioned equipment that are no longer operational.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design, implementation, and close-out phases. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed during project design.</p>
1148140	<b>South Plant Electrical Improvements Program</b> STANDALONE		\$1,398,000	<p><b>Scope:</b> The project scope entails the replacement of several electrical assets that are beyond their useful life at South Treatment Plant (STP) in Renton, WA. Due to the scale and complexity, this work will require extensive planning and coordination with plant operations and other capital projects proposed at STP.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in 2025. Further appropriation may be requested in future budget cycles for an alternatives analysis, final design, and implementation. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed during project design.</p>
1148141	<b>South Plant Santler Building Redevelopment</b> STANDALONE		\$997,000	<p><b>Scope:</b> This project will construct a new building of permanent office and workspace at the South Treatment Plant for numerous working groups, including the East Offsite operations team, South Plant operations team, the South Satellite construction management team, the South Plant Facility Program and the Weld Shop work group.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design, implementation, and close-out phases. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed during project design.</p>

# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1148142	<b>Brightwater Membrane 9 &amp; 10 Cassettes</b> STANDALONE		\$538,000	<p><b>Scope:</b> This project will install 20 membrane cassettes in tanks 9 and 10 to meet process capacity needs at the Brightwater Treatment Plant (BTP).</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design, implementation, and close-out phases. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed during project design.</p>
1148143	<b>Climate Adaptation Planning Program</b> STANDALONE		\$4,158,000	<p><b>Scope:</b> This program will fund subprojects that will work to adequately address climate adaptation in the Wastewater Treatment Division (WTD) including preparedness and adaptation planning, technical capacity building, and community resiliency advancement. The program will enable a comprehensive, strategic, and integrated approach to climate adaptation for the wastewater system.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning in 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for implementation. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed in the program planning stage.</p>
1148144	<b>Brightwater Space Heating - Heat Pump Installation</b> STANDALONE		\$567,000	<p><b>Scope:</b> This project will isolate the space heating loop from the process loop and install heat pumps at Brightwater Treatment Plant to fulfill the plant's space heating loop needs. The project will also rehabilitate leaks in heat loop pipe between the plant and the Brightwater Operations Center building.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design, implementation, and close-out phases. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed during project design.</p>
1148145	<b>South Plant Digester Circulation Pump Replacement</b> STANDALONE		\$488,999	<p><b>Scope:</b> This project will replace the existing recessed impeller pumps used to circulate sludge in the digestion process with screw centrifugal pumps at the South Treatment Plant in Renton, WA.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in 2025. Further appropriation may be requested in future budget cycles for final design and implementation. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed during project design.</p>

# CAP Summary by Fund

Budget: 2025 Annual Budget, Scenario: Executive Proposed, Agency: All, Fund: 3611 WATER QUALITY CONSTRUCTION, Cap Status: Approved, Is IT Proj? Both Yes and No

## 2025 Annual Budget - Executive Proposed

1148146	<b>WTD Solar Program</b> STANDALONE		\$279,001	<p><b>Scope:</b> This program will assess and prioritize solar installation locations, determine solar system sizing, and design and install solar systems at Wastewater Treatment Division (WTD) locations. The program will also conduct annual condition assessments of new solar installations and existing solar installations to meet performance standards for up to six years.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to support planning and preliminary design in 2025. Expenditures will include fully burdened staff labor and consultant contract costs. Further appropriation may be requested in future budget cycles for final design, implementation, and close-out phases. The initial Estimate at Completion (EAC) is a rough order of magnitude estimate and will be refined as the project scope is further developed during project design.</p>
1148147	<b>Chinook Research Vessel Replacement</b> STANDALONE		\$1,133,000	<p><b>Scope:</b> Replace the obsolete R/V Chinook with a newer, modern boat capable of performing the Wastewater Treatment Divisions (WTD) increasing marine sampling workload required per NPDES permit.</p> <p><b>Description of Budget Request:</b> This project is requesting appropriation to plan, design, and start construction in 2025. Expenditures will include fully burdened staff labor. The current EAC is based on discussions with boat builders.</p>
<b>3611 - WATER QUALITY CONSTRUCTION</b>		<b>Total</b>	<b>\$359,207,901</b>	
<b>Grand Total</b>			<b>\$359,207,901</b>	

# Stormwater Work Session #1: Understanding the Problem

King County Regional  
Water Quality Committee  
October 2, 2024

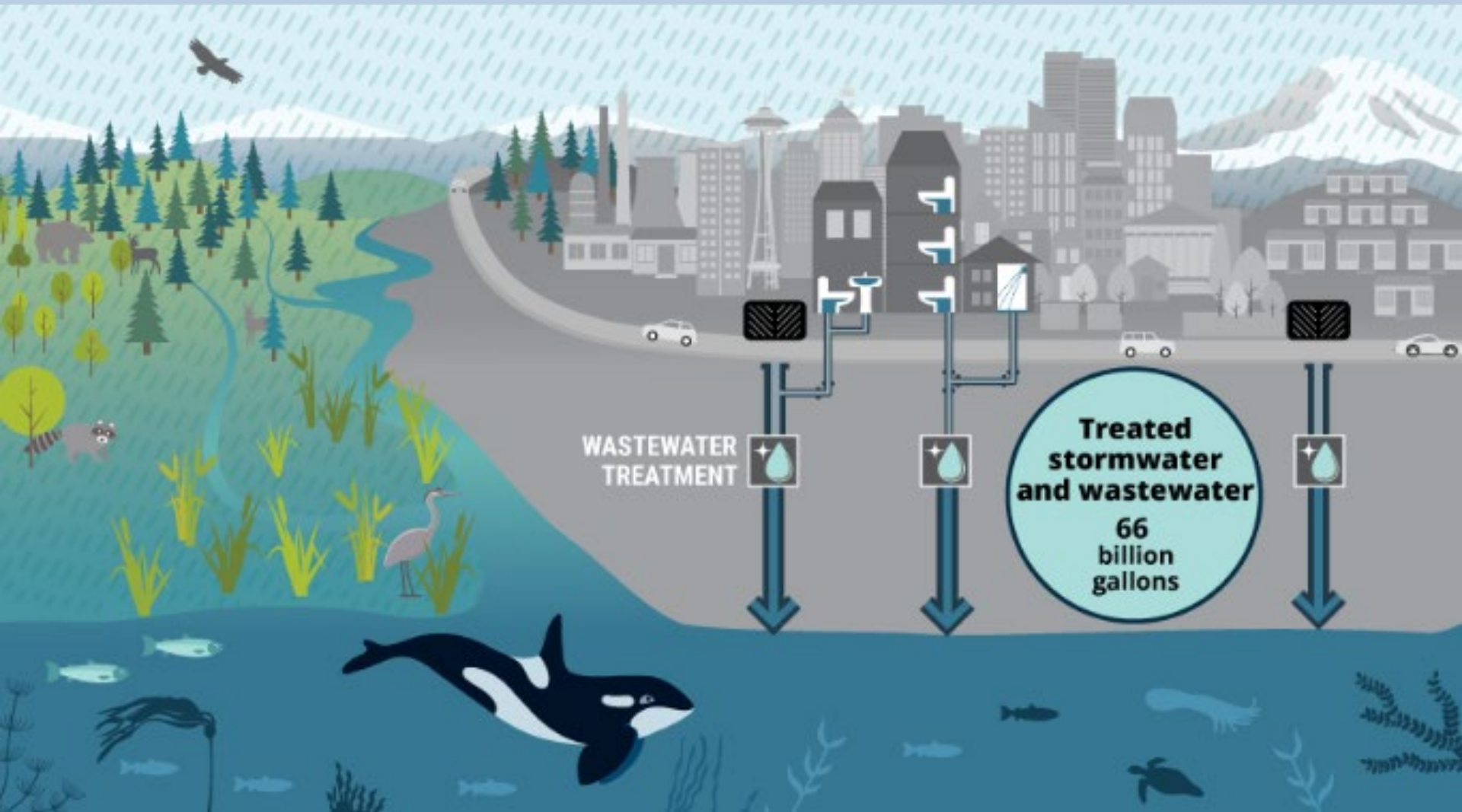


**King County**

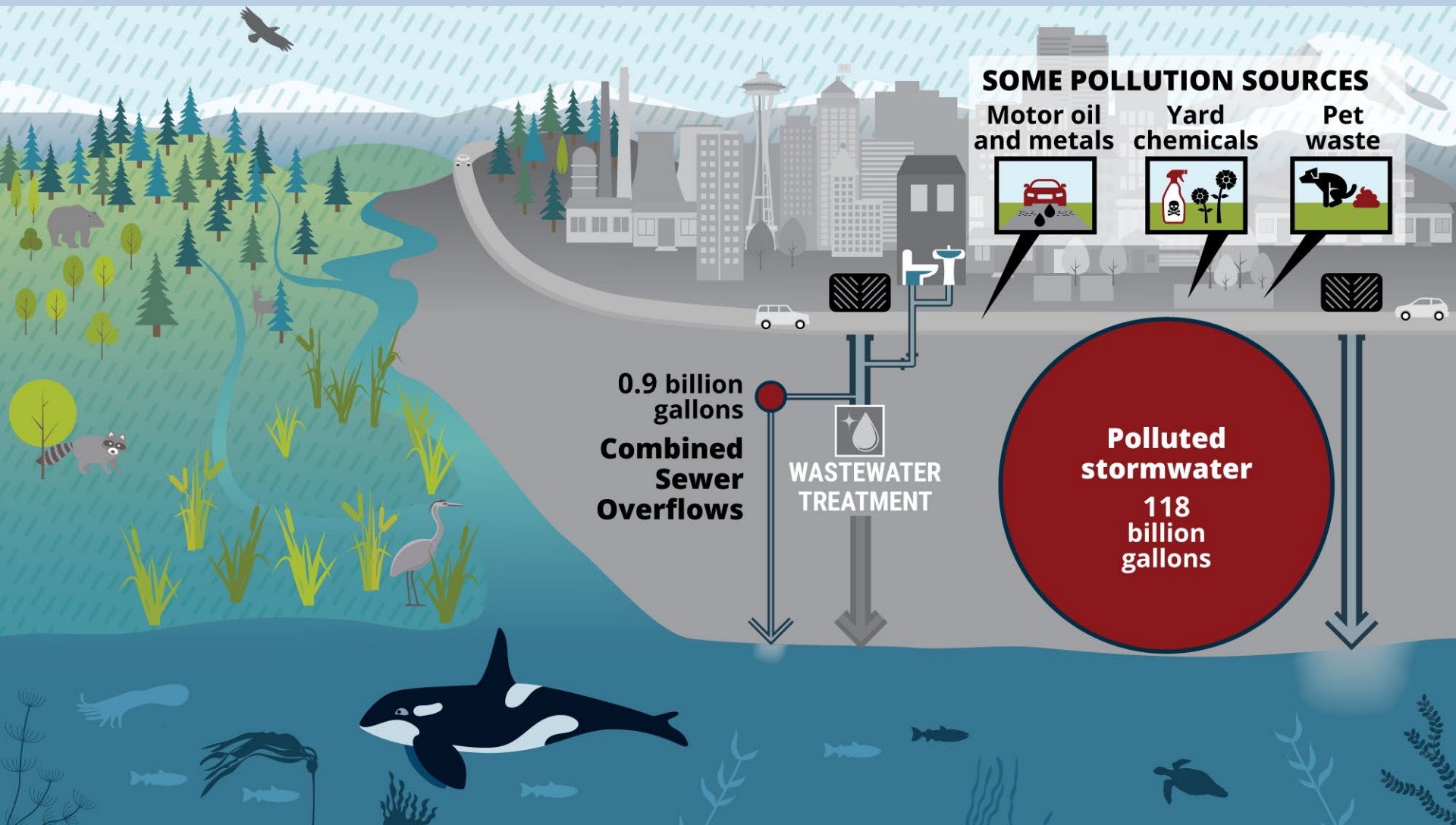


**Clean Water  
Healthy Habitat**











## Stormwater Management: Relationship to Wastewater Treatment

Source Control  
Flow Control  
Climate Impacts  
Footprint for Capital Projects



# Stormwater Management: Key Piece of the Puzzle

Stormwater regulations and land use are making a difference.

Twenty years of data indicates widespread improvements in stream health even as the population grew by over a half-million.

25% of streams monitored by King County have improved while just 3% have declined.



# Stormwater Management: Key Piece of the Puzzle

Modern stormwater regulations address both flow control and water quality treatment

But. . .

- More than 3/4s of development came before water quality treatment requirements
- New threat: Toxic Tire Dust
- Regulations and funding siloed
- Changing climate and precipitation patterns





# Regional Stormwater Goals

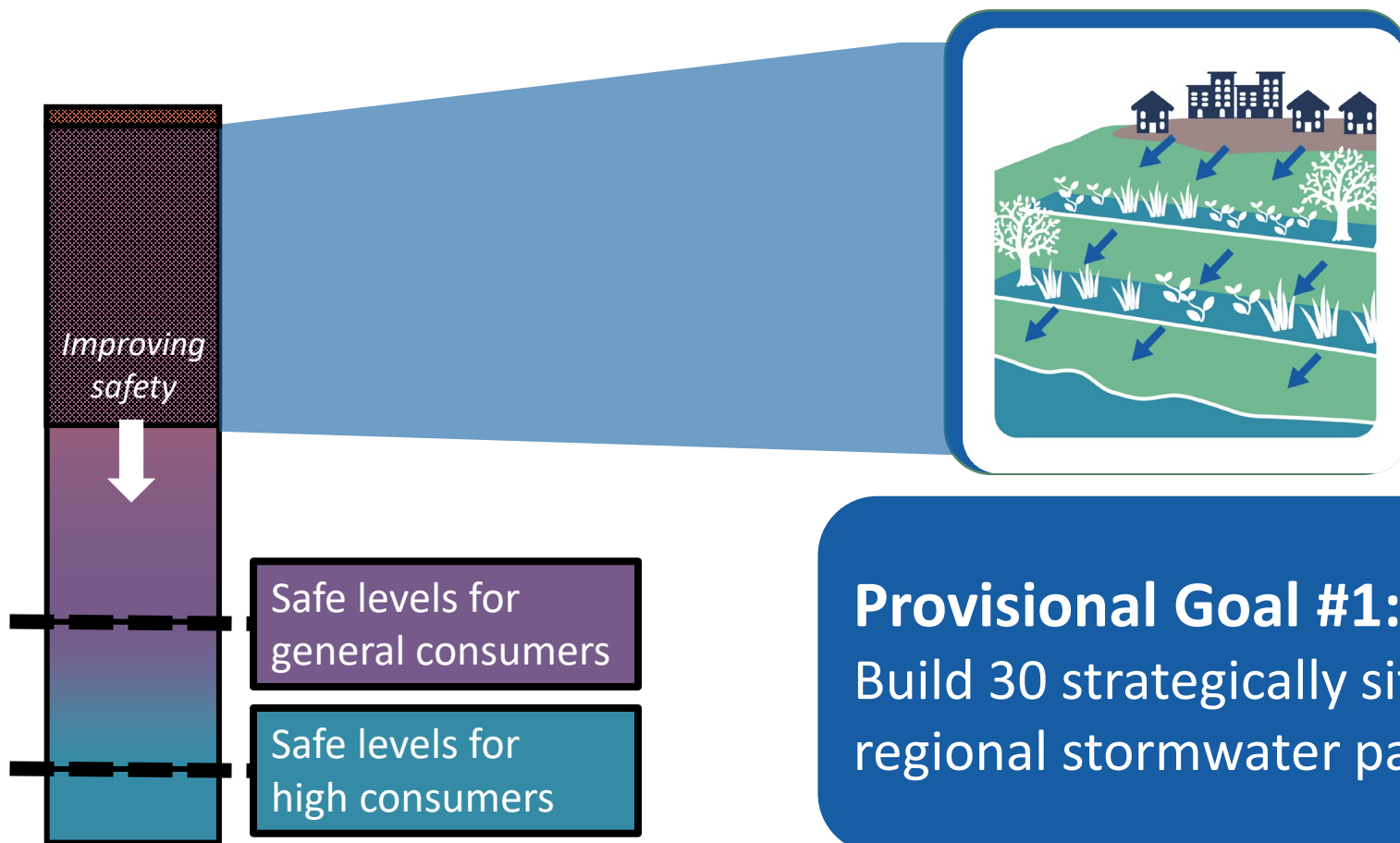
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- **Create** regional stormwater parks
- **Treat** polluted runoff from *roadways*
- **Restore** natural stream flows
- **Control** upstream sources of toxic pollutants





# PCB Example










**Provisional Goal #2:**  
Treat runoff from 100 miles of roadways through best management practices (BMPs) that remove 6PPD-q and more.





**Provisional Goal #3:**  
Provide flow control to 5,000 acres through a mix of green stormwater infrastructure (GSI) and new or retrofitted detention ponds.





**Provisional Goal #4:**  
Reduce sources of  
pollutants.

*Goal under development.*

# Stormwater Regulatory Framework

The Clean Water Act is the basis for stormwater regulations

Washington State Department of Ecology has delegated authority to regulate stormwater

Cities and counties are regulated by National Pollutant Discharge Elimination System (NPDES) Municipal Stormwater General Permits

- Phase 1 permit holders (Large counties, cities, and secondary dischargers)
- Phase 2 permit holders (Smaller counties, cities, and secondary dischargers)

**Accountability is at the individual jurisdiction and permit level**



# Updated Municipal General Stormwater Permit

Key changes include:

- Additional requirements for retrofitting older areas of development to include water quality treatment
- Incentives for regional collaboration
- Pledge to add new types facilities for treatment of toxic tire dust runoff (a.k.a., 6 PPDQ)
- Updated requirements for watershed scale planning (a.k.a., SMAP)
- Street sweeping



# Stormwater Funding

Stormwater funding: also very localized

Local stormwater rates and charges vary by jurisdiction

Scale and sources of funding create challenges for larger, multi-benefit projects

Investments that would bring greatest impact may be in a neighboring jurisdiction

- Uncertainty about “credit” toward regulatory compliance

State Floodplains-by-Design Grant program provide potential model for multi-benefit, large-scale grant funding.





# Examples of Progress: 4 Stormwater Goal Areas

## Stormwater Parks

- **Projects in White Center and East Renton areas**
- **National Estuary Program Grant: Stormwater Parks Feasibility Analysis**
- **Conservation Futures Program policy change**
- King County Comprehensive Plan updates
- State engagement: “Stormwater-by-Design”
- Our Green Duwamish: Regional Retrofit Collaboration

## Flow Control

- **Identifying opportunities to retrofit existing county infrastructure, including parks**
- **Completion of community co-led GSI strategy for White Center**
- **Up next: Stormwater Action Plan for Skyway**
- **Strong community interest in Green Stormwater Infrastructure**

## Roadway Treatment

- **Testing of high-performance soil mix – highly effective in filtering tire dust**
- **Now updating King County Surface Water Design Manual**
- Heat mapping for toxic tire dust runoff
- Water quality treatment as part of fish passage projects

## Source Control

- **PFAS actions (RWQC briefing topic today)**
- Sustainable Purchasing Policy Update
- State policy and funding
- Contaminants of Emerging Concern framework in development



# Regional Collaboration Next Steps

- Build on approach and partnerships: Climate change and salmon recovery
- Understand challenges faced by neighboring cities and counties
- Learn from innovations of our neighbors
- Understand scope of actions needed and pace to accomplish regional goals

## **RWQC Monthly Work Program for 2024** *Updated October 2, 2024*

The suggested topics are based on the latest scheduling information available. The committee will adjust the schedule throughout the year to accommodate any necessary changes.

### **January–No meeting**

#### **February 7, 2024 (In-person)**

- ✓ Election of Vice-Chair.
- ✓ Introduction to the Regional Water Quality Committee and the Regional Wastewater Treatment System.
- ✓ Status update on the long-term forecasting work requested by Motions 16410 and 16449.
- ✓ Regional Water Quality Committee 2024 Work Program development and priority setting.
- ✓ Rates: High level briefing on major policy issues and cost drivers likely to impact 2025 rates.

#### **March 6, 2024**

- ✓ Discussion of resolution expressing RWQC's interest in sewer rate and capacity charge and requesting MWPAAC continue performing a technical review of rates.
- ✓ Wastewater Treatment Division 2025 rate recommendation.
- ✓ Regional Wastewater Services Plan Update.
- Report from WTD as requested by Motion 16410 on recommended methodology for forecasting long term costs of its capital improvement needs. (Deferred until April)

#### **April 3, 2024**

- ✓ Regional Wastewater Services Plan Update.
- ✓ Report from WTD as requested by Motion 16410 on recommended methodology for forecasting long term costs of its capital improvement needs.
- ✓ Overview of the policies that determine how regional wastewater system costs are shared and the sewer and capacity charge are structured.
- ✓ Discussion of resolution expressing RWQC's interest in sewer rate and capacity charge and requesting MWPAAC continue performing a technical review of rates.

#### **May 1, 2024– CANCELLED**

#### **June 5, 2024**

- ✓ Briefing Regional Wastewater Services Plan Update.
  - Policy topics for discussion: Policy application K.C.C. 28.86.030 and Treatment Plant Policies K.C.C. 28.86.050
- ✓ Briefing on 2025 Proposed Sewer Rate and Capacity Charge.

- ✓ John Taylor, Director, Department of Natural Resources and Parks

**July 3, 2024—July 15, 9:30 a.m. SPECIAL MEETING**

- ✓ Briefing Modified Combined Sewer Overflow Consent Decree.
- ✓ Briefing Regional Wastewater Services Plan Update.
  - Guiding principles for RWSP Update
  - Policy topics for review from prior meeting: Policy application K.C.C. 28.86.030 and Treatment Plant Policies K.C.C. 28.86.050
  - RWSP Scope
- ✓ Status briefing on the progress in developing a long-term financial and sewer rate forecast per Motion 16449. Written update.

**August 7, 2024 CANCELLED DUE TO RECESS**

**September 4, 2024 (In-PERSON)**

- ✓ Briefing Regional Wastewater Services Plan Update.
  - RWSP scope and input on policy issues to be addressed
  - Resolution on Guiding Principles for RWSP Update

**October 2, 2024**

- Regional Wastewater Services Plan Update: Status Report
- Contaminants of Emerging Concern (CEC): Update on Efforts to Reduce and Control PFAS and CECs as Requested by Motion 16434
- 2025 Proposed WTD Capital Improvement Program
- Stormwater Study Session Part 1: Understanding the problem.
  - Threat to Puget Sound and relationship to wastewater.
  - Existing regulatory stormwater framework, including the role of King County and cities.
  - Existing funding framework.

**November 6, 2024**

- Regional Wastewater Services Plan Update.
- Executive's 2025 WTD Operating Budget
- Stormwater Study Session Part 2: Focusing on solutions.
  - Priorities for regional action.
  - A model for collaborative stormwater action.
  - Next steps/near term opportunities.

**December 4, 2024**

- Briefing Regional Wastewater Services Plan Update.

RWQC staff will work throughout the year to coordinate with MWPAAC staff to align work programs of both committees.