

Sammamish River and Lake Sammamish Flood Risk Reduction

*King County Flood Control District,
Executive Committee*
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Agenda

- Sammamish Basin Work Program
- Willowmoor Project Timeline
- WLRD Response to FCD Motion
- Peer Review Findings
- Next steps



Sammamish River weir in the Transition Zone, Marymoor Park

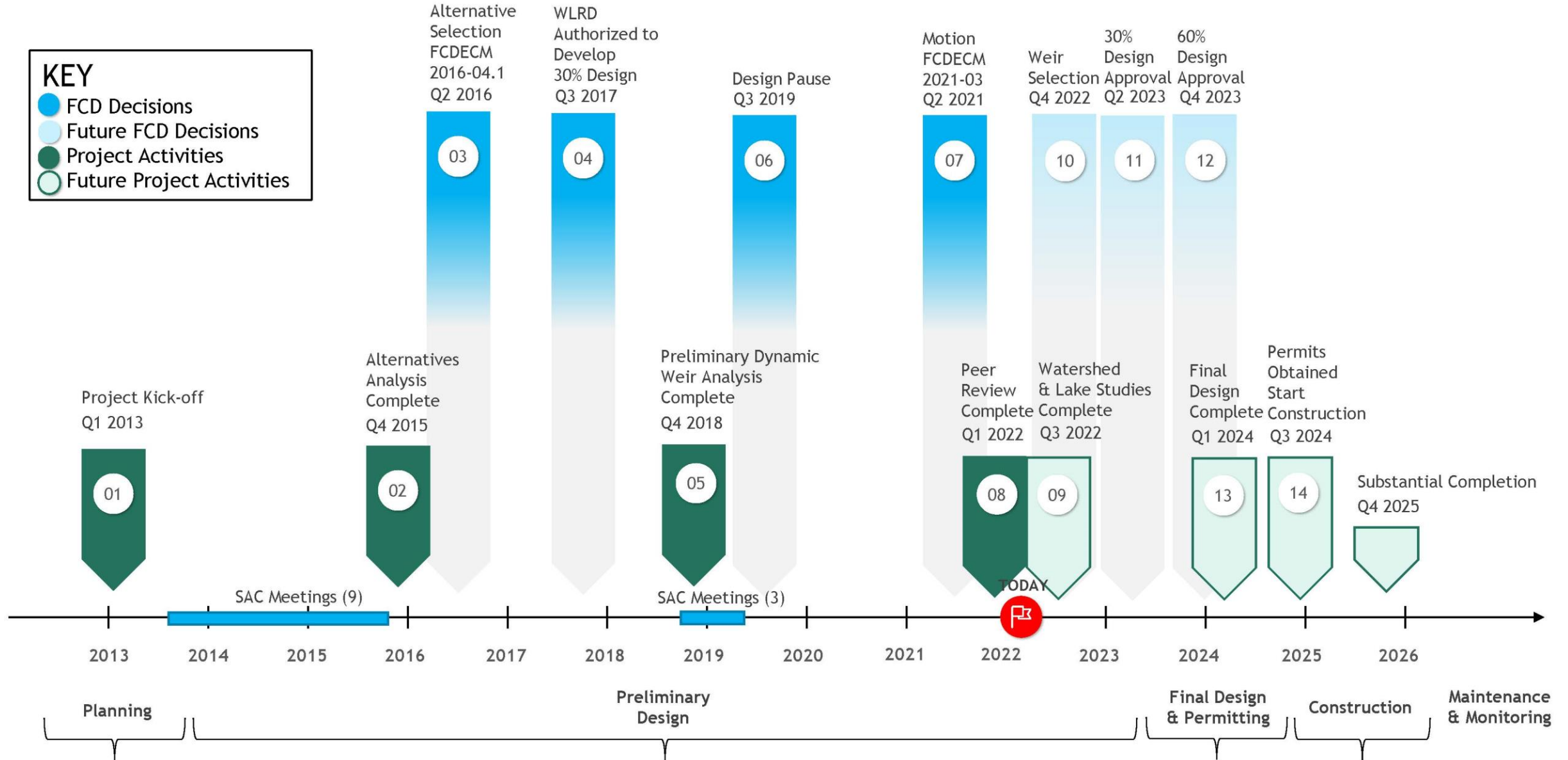
Sammamish Basin Work Program Projects

- **Sammamish River Transition Zone (TZ) Maintenance** – Conduct annual clipping and mowing of willow in TZ for flood conveyance and habitat protection.
- **Willowmoor Floodplain Restoration Project** – Reduce lakeshore flooding and improve habitat conditions at the TZ. Preferred alternative selected, design paused in 2019 pending peer review (complete) and additional studies (underway).
- **Sammamish River Basin Corridor Investment Strategy** – Basin-wide approach to meet flood and habitat goals for river and lake. Work with the Corps to update the 1965 O&M manual for the Sammamish River project.

Willowmoor Floodplain Restoration Project Milestones

KEY

- FCD Decisions
- Future FCD Decisions
- Project Activities
- Future Project Activities



WLRD Response to FCD Motion FCDECM2021-03

1 - Near Term WLRD Actions:

- Update Sammamish work programs to reflect a watershed-scale approach. **Complete**
- Work with cities to create a near-term grant program. **In progress**
- Add cost estimate for lake level forecasting model to Willowmoor. **In progress**
- Pursue 2021 TZ maintenance permits. **Complete**

2 – Collaborative Work with FCD Executive Director:

- Conduct a peer review of Willowmoor modeling. **Complete**
- Continue weir alternatives analysis. **Pending near-term work completion**
- Explore sandbag distribution closer to lake. **Complete**

3 – Stormwater Issues

- Summarize SWS coordination activities with municipalities. **In progress**

Willowmoor Project Peer Review Findings

General Comments:

- Hydraulic modeling methods and assumptions were appropriate.
- Appropriate model constraints were applied.

Recommendations for Ongoing Work:

In Progress	1. Identify what you are trying to protect.
	2. Evaluate uncertainty in flow forecasting for weir operation.
Planned Future Design Work	3. Consider larger design flood events/climate change.
	4. Wetland criteria should be more complex.
District Direction Needed at Later Date	5. More detailed information about downstream municipal infrastructure is needed. Actions downstream may create more opportunity for pre-flood water releases.
	6. Define the flood protection level of service goal for the lakeshore.
	7. Define success criteria for lake level goals.

Next Steps

- **Lake Sammamish Watershed Scale Studies**
- **Communications**
- **Future District Briefing**

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