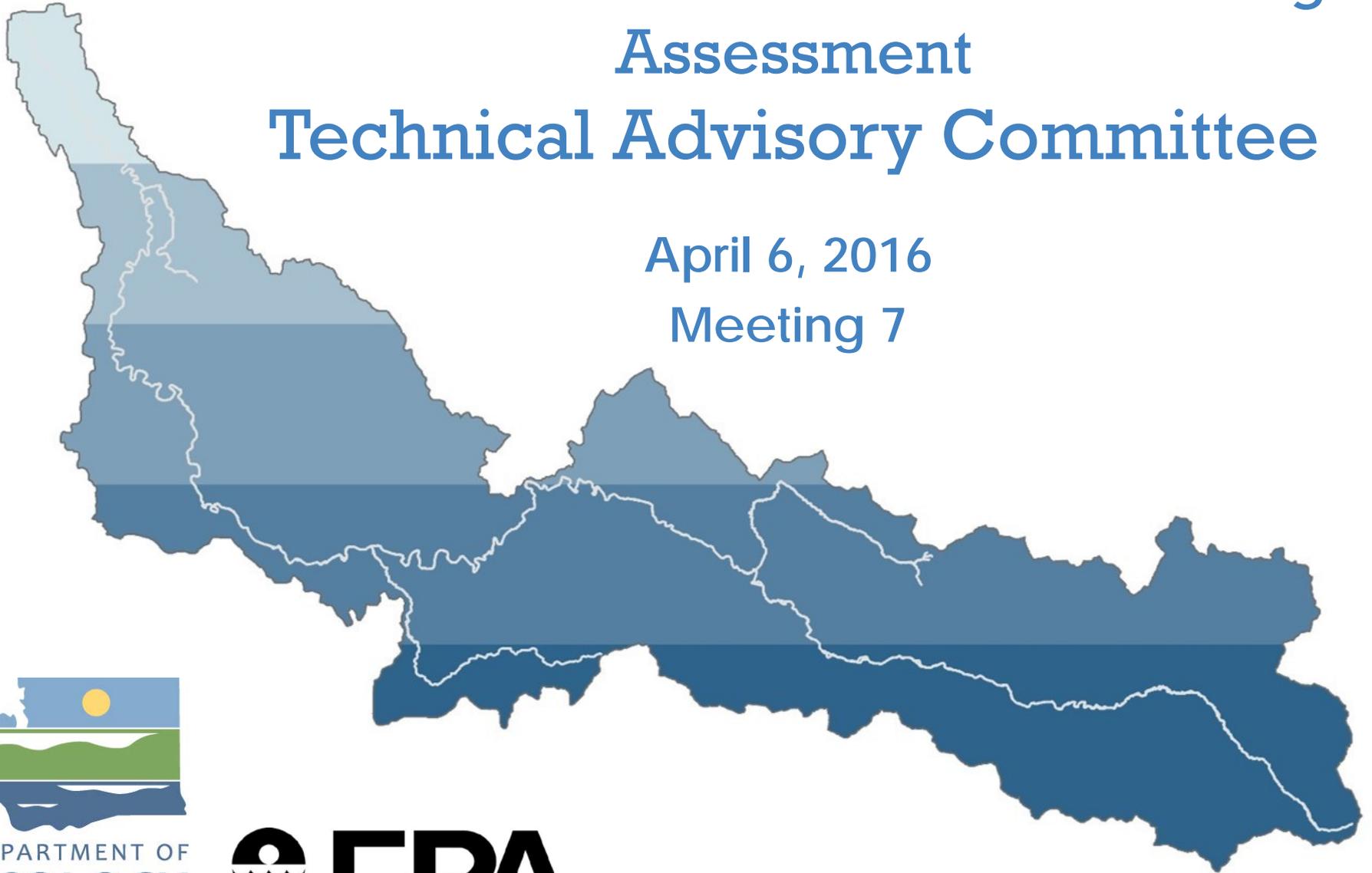


Green-Duwamish Pollutant Loading Assessment Technical Advisory Committee

April 6, 2016
Meeting 7



DEPARTMENT OF
ECOLOGY
State of Washington



Role of Technical Advisory Committee (TAC)

Made up of representatives from government, Tribes, & non-profits

Provide technical input during PLA development

- Participate in meetings
- Review documents
- Provide input on models & data gaps
- Ensure local interests are represented



TAC Meetings Overview

PLA Goals and Objectives – see poster

TAC Meetings # 1-6

Today's Meeting #7 - New work:
Draft initial modeling QAPP

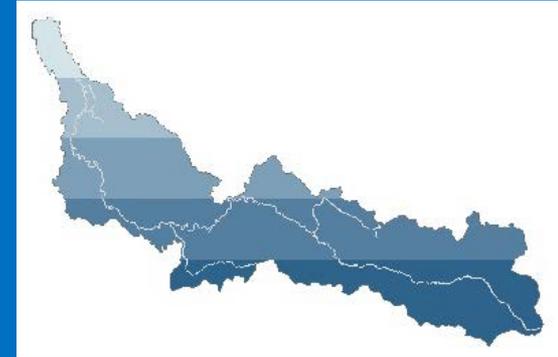


TAC Meeting Agenda

Time	Topic
9:00 am	Welcome & Introductions
9:10 am	Overview of Project Status and Draft QAPP
9:45 am	QAPP – LSPC
10:20 am	Break
10:35 am	QAPP – EFDC
11:15 am	QAPP – Food Web, Data Management
11:35 am	Comments from Audience
11:45 am	Next Steps
11:55 am	Wrap-up
12:00 pm	Adjourn



Green-Duwamish Watershed Pollutant Loading Assessment (PLA)



Goals

1. Address water, sediment, and tissue quality impairments under the Clean Water Act.
2. Prioritize pollutant reduction efforts to minimize recontamination of remediated LDW sediments.

PLA Objectives

- Develop a modeling tool to assess pollutant loads from different sources (point and diffused).
- Better understand the relationship between water, sediment, and fish tissue quality.
- Predict improvement in water, sediment, and tissue quality expected to occur as a result of management actions.
- Improve effectiveness of Monitored Natural Recovery, one of the LDW in-waterway sediment remedial actions, which is dependent on cleaner upstream sediments depositing in the LDW.



Goal 1 re: Clean Water Act

- Clean Water Act Section 303(d) responsibility:
Restore impaired waters
- EPA's 303(d) Program Vision
 - Acknowledges that tailored strategies to restore & protect designated uses may be appropriate alternatives to a traditional TMDL if they are faster and more practical
 - Allows States to prioritize alternative water quality restoration & protection plans

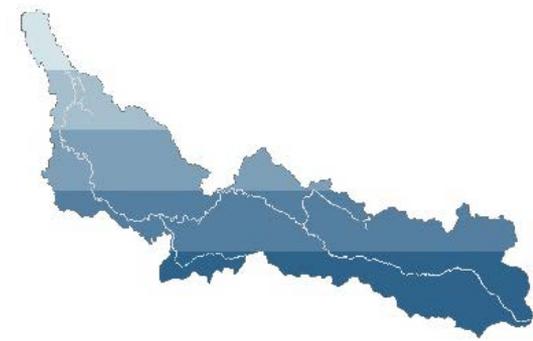


TMDL Alternative Restoration & Protection Plan: Green-Duwamish Toxics

- Encompasses many actions underway...
 - Lower Duwamish Waterway sediment cleanups (early actions & river-wide)
 - Source control activities & implementation plans (studies, NPDES permits, upland site cleanups)
 - Combined Sewer Overflow (CSO) control projects
 - PLA model development
- And potential actions under development
 - Green/Duwamish Strategy – Regional Stormwater Strategy
 - WRIA 9 Salmon Habitat Recovery Plan update



PLA Activities (2015)



- Technical Advisory Committee meetings
 - 6 meetings between Dec. '14 & June '15
- Interested Party Meeting
- Technical consultant memos
 - Existing Data & Model Evaluation (2/2015)
 - Data Gaps & Pollutant Groupings (6/2015)
- Input for the EPA & Ecology Project Team
 - Project phasing, funding concerns
 - Coordination with local expertise



PLA Project Phasing



* Modelling QAPP will be updated as needed to reflect changes in the project over time. Two versions are shown here; additional versions may be necessary.

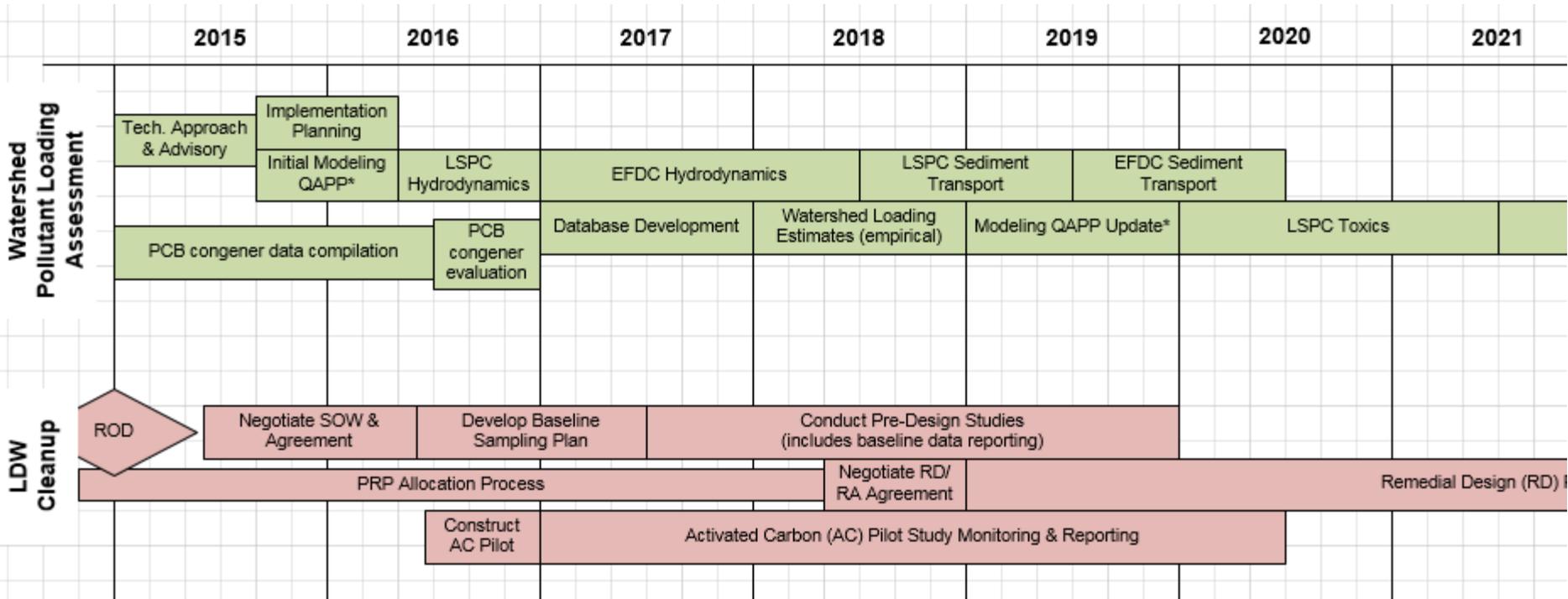


PLA Project Phasing

	2015	2016	2017	2018
Tech. Approach & Advisory	Implementation Planning			
	Initial Modeling QAPP*	LSPC Hydrodynamics	EFDC Hydrodynamics	LSPC Se Transp
PCB congener data compilation		PCB congener evaluation	Database Development	Watershed Loading Estimates (empirical)



PLA Project Phasing & LDW Cleanup



PLA Activities 2016-2017

- Ecology funding status
 - USGS water and sediment quality sampling at river miles 11 & 6 suspended
 - PCB congener report and database delayed
 - PCB congener assessment on hold
 - Contractor facilitation services unavailable
- Funding & schedule update pending



PLA Activities 2016-2018

- EPA funding status
 - Draft Modeling Quality Assurance Project Plan (QAPP)
 - Initiate model development focused on hydrology/hydrodynamics in watershed model (LSPC)
- Future funding priorities
 - Database development
 - Data assessment to prepare for future water quality model development



PLA Activities 2016-2017: QAPP

- QAPP Background
 - QAPPs are required for modeling projects
 - Unique aspects of this project and this QAPP
 - Benefits of a good QAPP

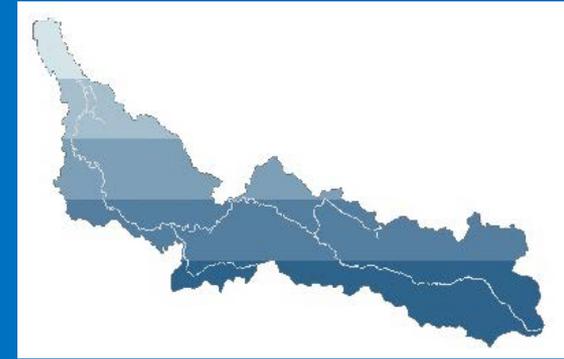


QAPP Next Steps

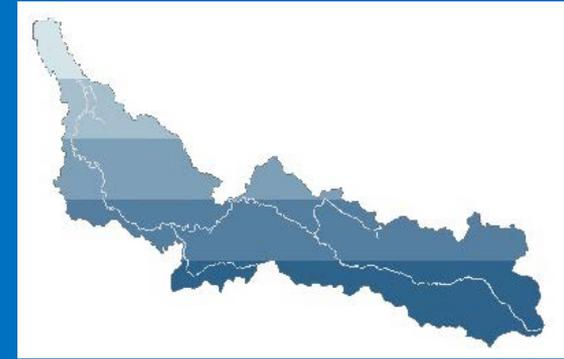
- Soliciting review/feedback
 - Emphasize watershed model since it is first in line
 - Two buckets: things we can and cannot revise now
 - Revise QAPP: major revisions reported back to TAC
 - Down the road: QAPP update on toxics & other new developments
- Tetra Tech starts compiling data
- QAPP finalization
- Watershed model development



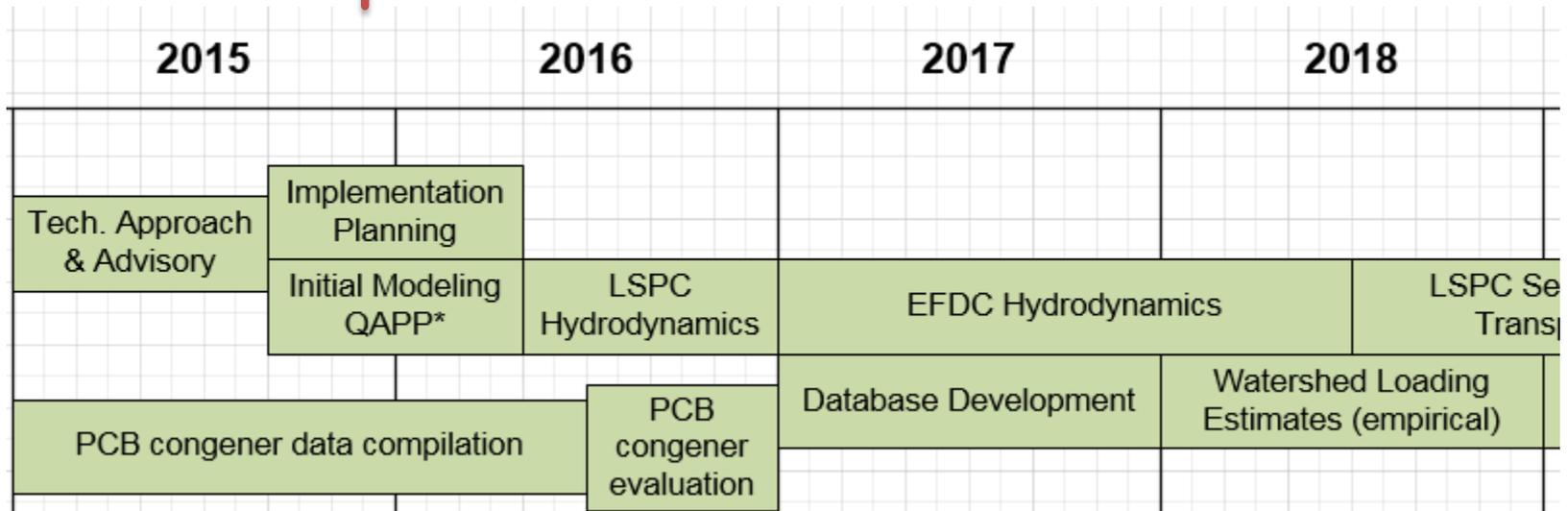
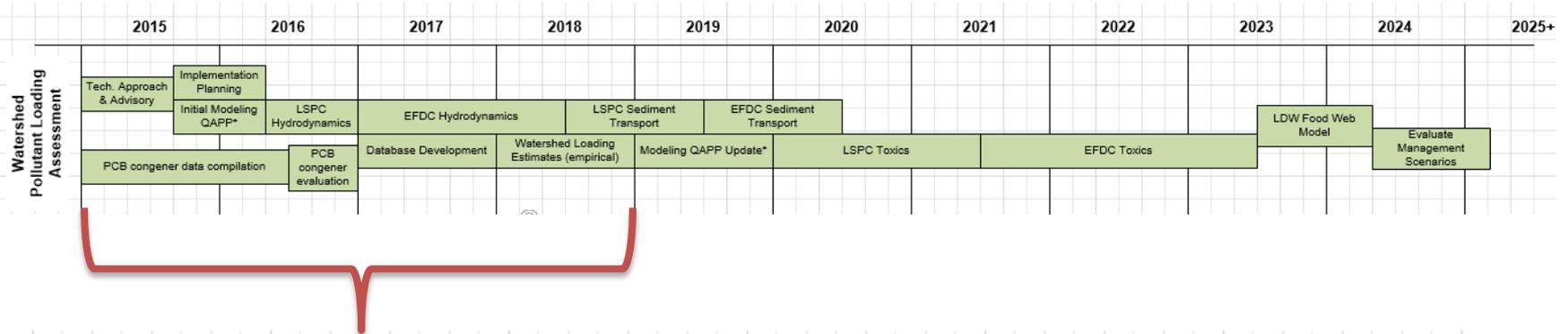
Transition to QAPP Slides



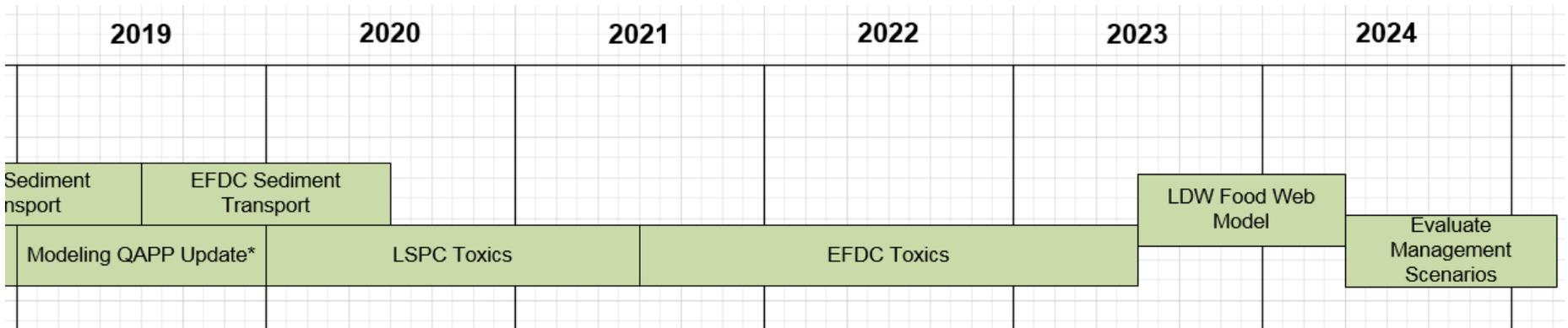
Comments from the audience



Next Step



Next Step

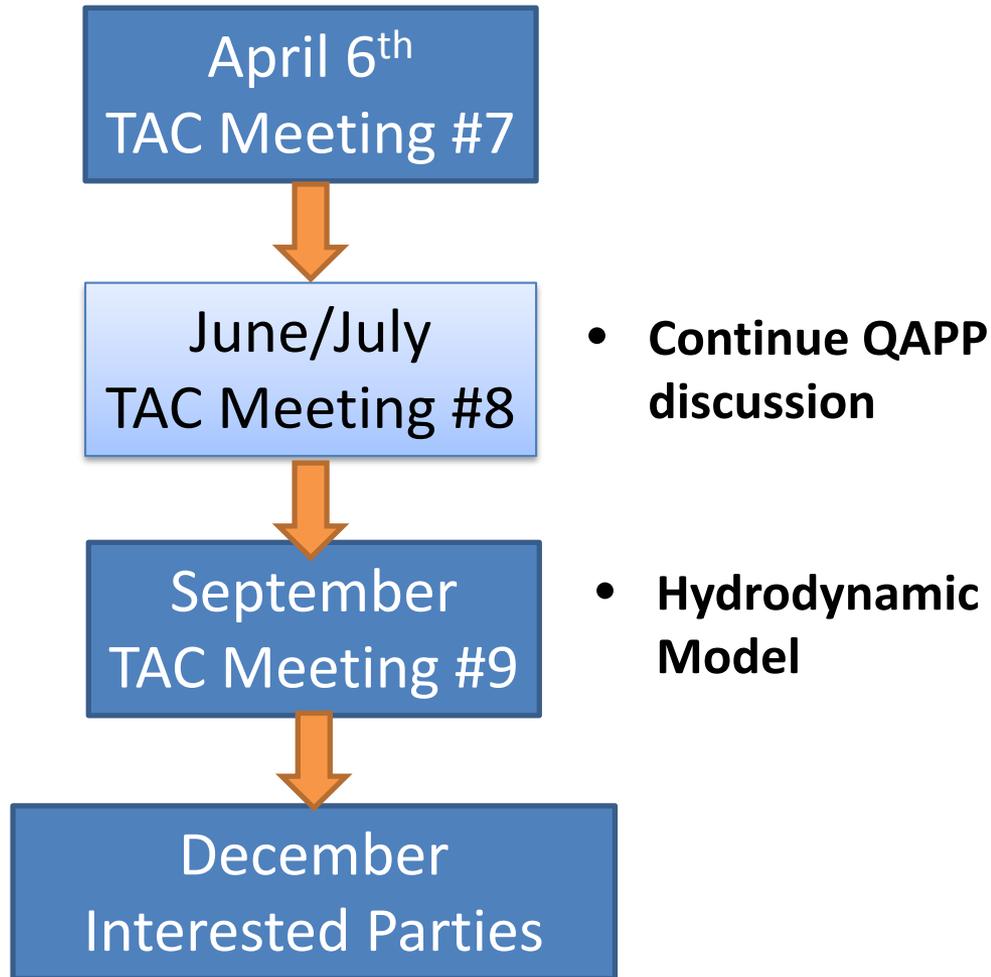


QAPP Comment/Feedback

- TAC
 - Send written comments by April 29th (Friday)
 - Will be collected and incorporated into a future QAPP update.
- Posted QAPP on website for public feedback



Meeting schedule in 2016



Wrap Up

- ★ Do we need another meeting to discuss the QAPP?
- ★ Does the first Wednesday morning of the month work for scheduling?
- ★ Presentations and Meeting Notes and other project information may be found on website:
<http://www.ecy.wa.gov/geographic/GreenDuwamish/pla.html>

