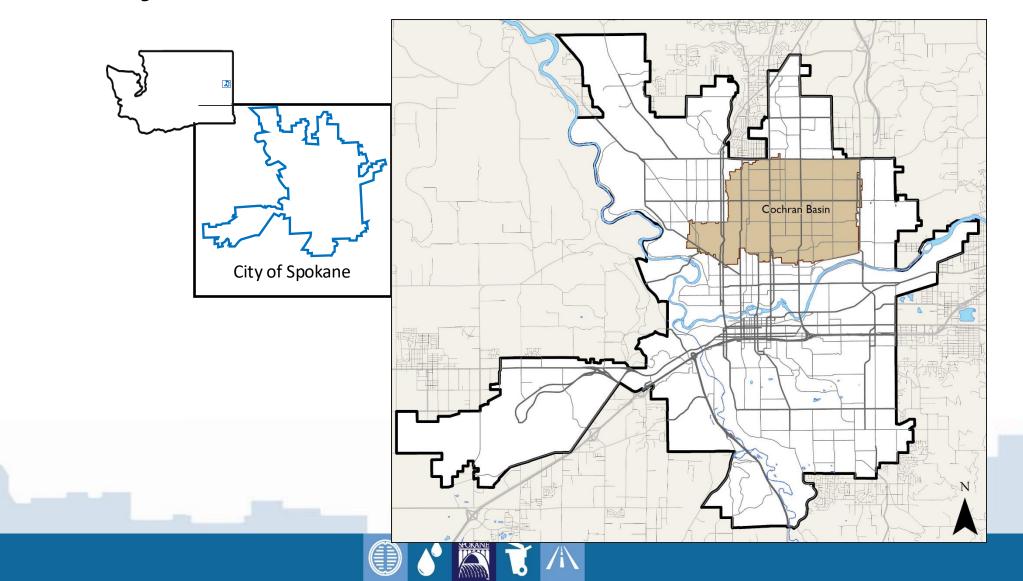
Cochran Basin Stormwater Improvements



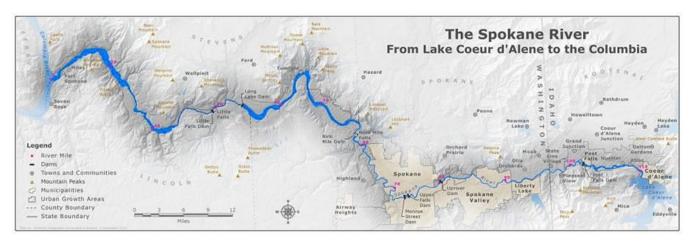
Project Location





What's The Problem?





- Basin discharges directly to the Spokane River without treatment.
- Largest MS4 outfall in City (approx. 60% of total)
- Spokane River TMDLs include Dissolved Oxygen and Metals.
- PCB TMDL in development.







Spokane River



- The Spokane River is our community's greatest asset
 - Cultural, economic and recreational hub of the City
- 111 Miles (Lake CdA to Columbia)









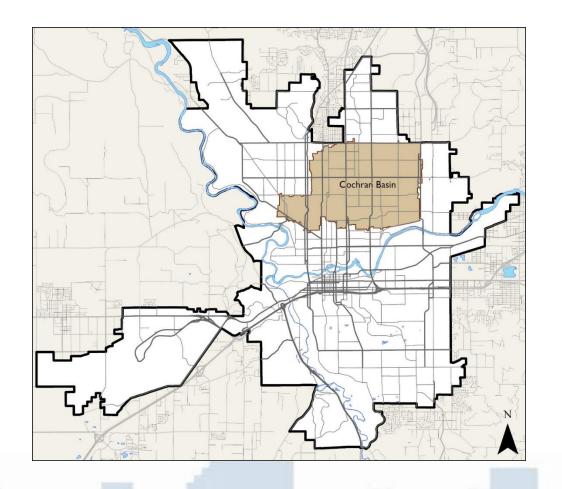






Basin Data

- Total Basin Area = 5,328 acres
- 496 impervious connected acres
- Project goal is to separate 6-month WQ storm and continue to use outfall for larger events.
 - Type IA 6-Mo 24-hr = 56 cfs
- Modeling: InfoSWMM
- Not feasible to separate more than 6-month storm.

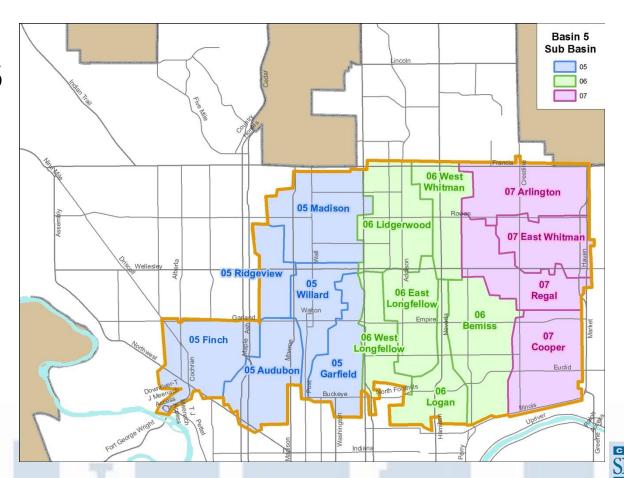






Where We Started

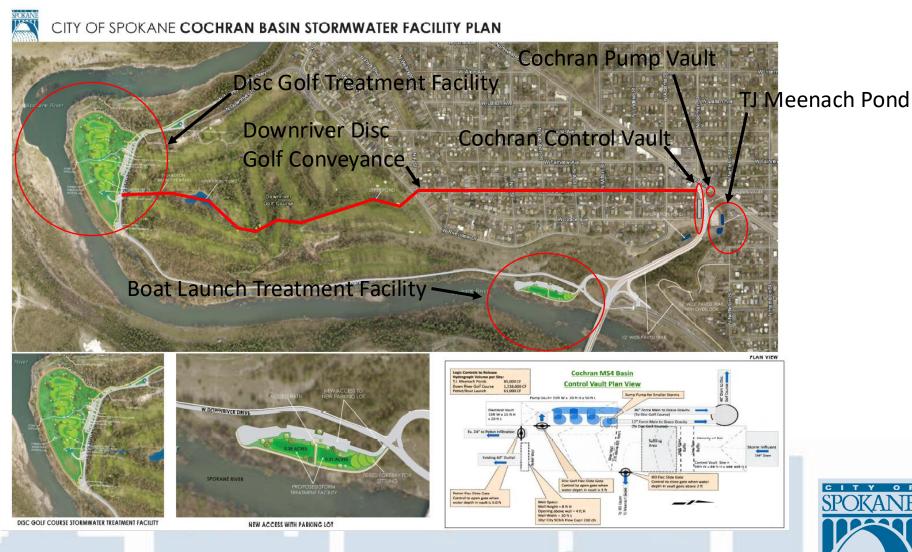
- Larger basin was broken into 16 sub-basins
- Plan was ultimately discarded
 - Difficulty in finding treatment areas
 - Significant cost





The Solution

- Significant Cityowned land near the outfall with favorable infiltration
- Basin flows split to three separate treatment facilities







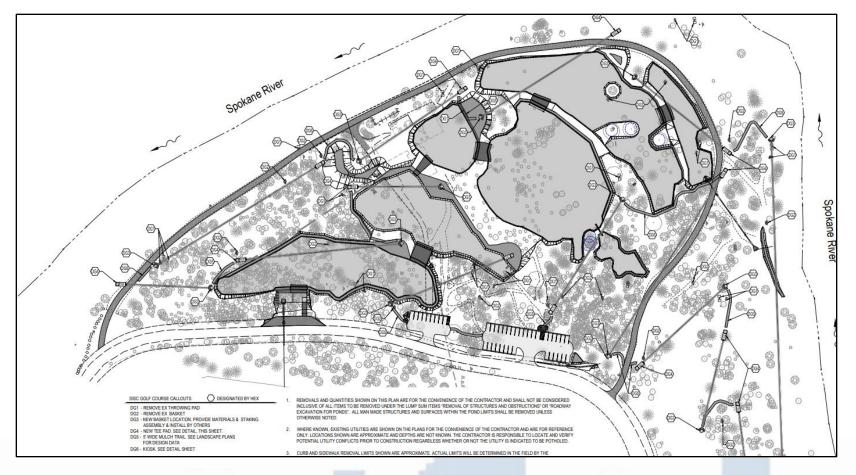






Disc Golf Treatment Facility

- 4.29 acres of pond bottom area
- Construction Cost
 = \$3.7M
 (combined
 contract with
 boat launch)



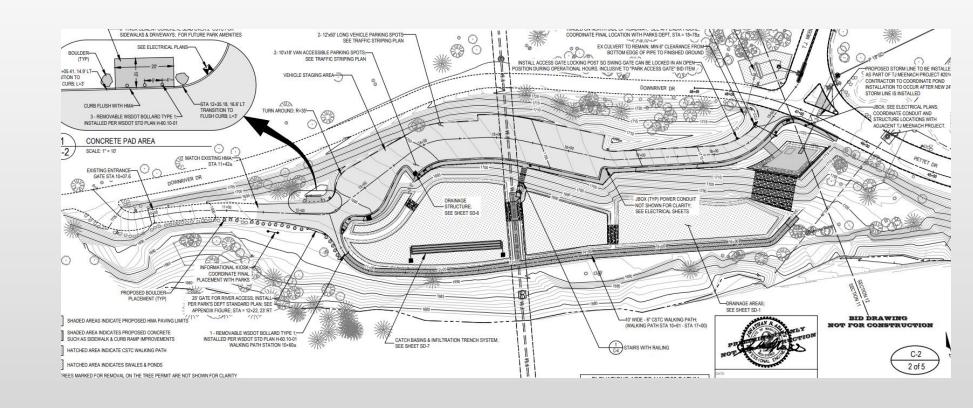






Boat Launch Treatment Facility

- 0.40 acres of pond bottom area
- Construction
 Cost = \$3.7M
 (combined
 contract with
 boat launch)











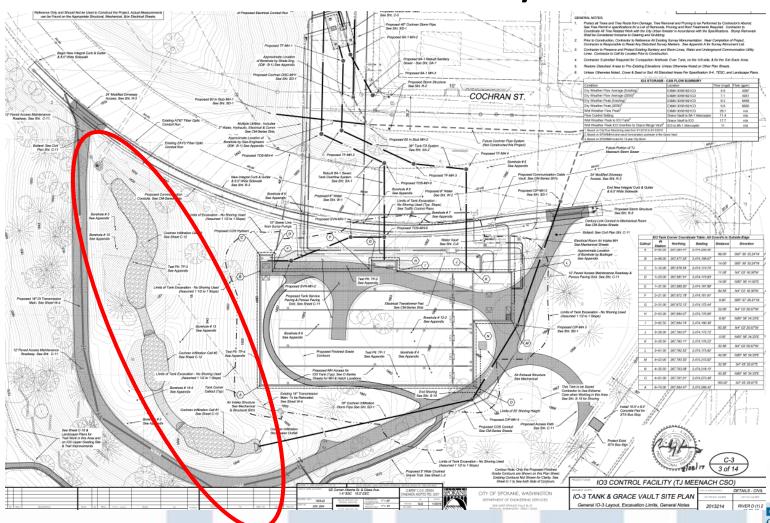






TJ Meenach Treatment Facility

- 9,000 SF of pond bottom area
- Construction Cost = \$900K (partly constructed with I-03 Facility)



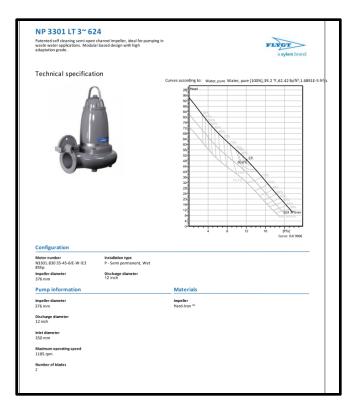


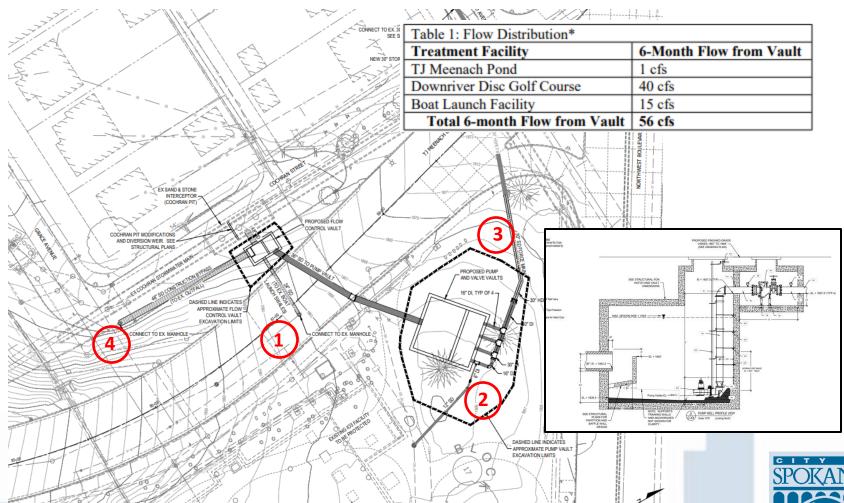
TJ MeenachTreatment Facility





Flow Control and Pump Vault









Current Status

- Control Facility Final pump connectivity and programming is underway
- Disc Golf is complete Waiting for pumps.
- Boat Launch Undergoing revision of settling basin/outfall









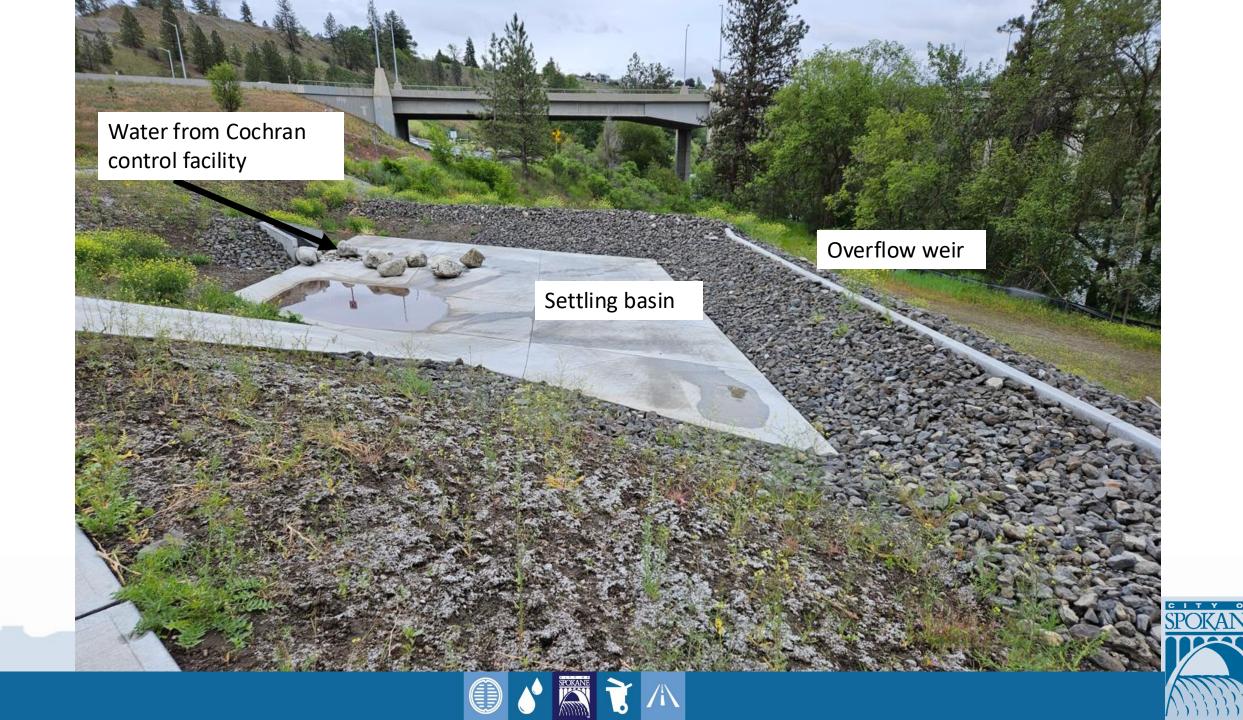


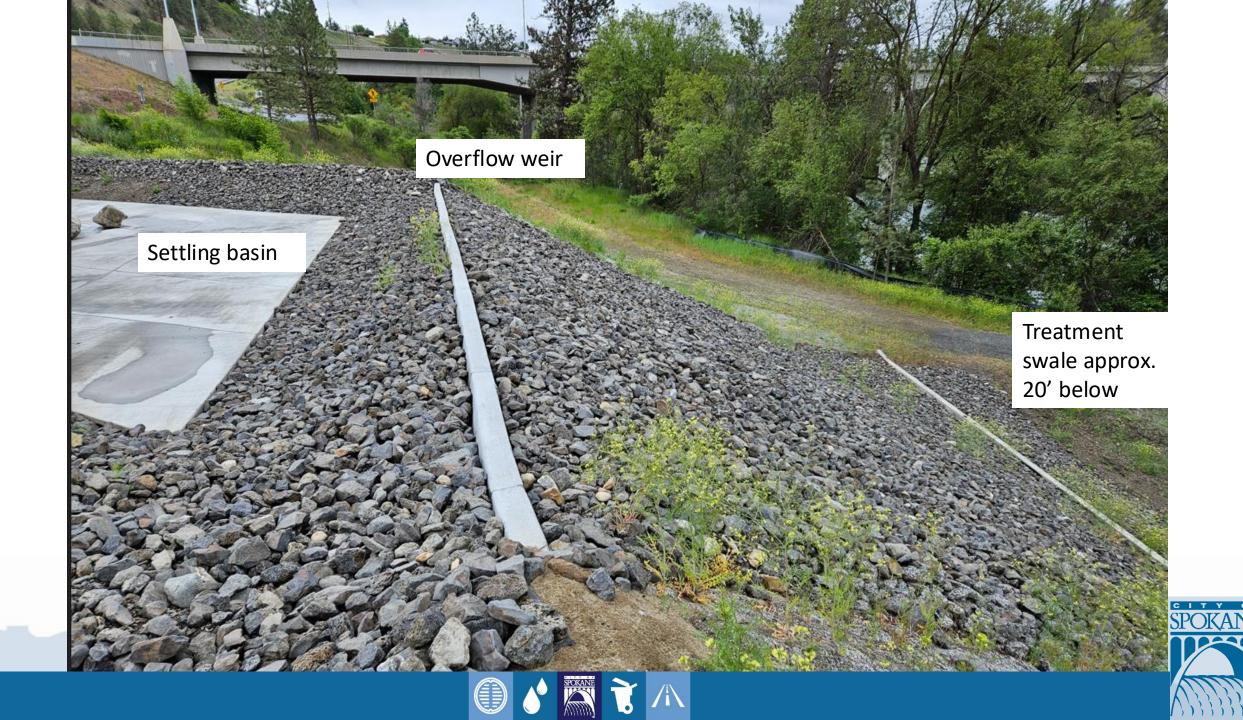


































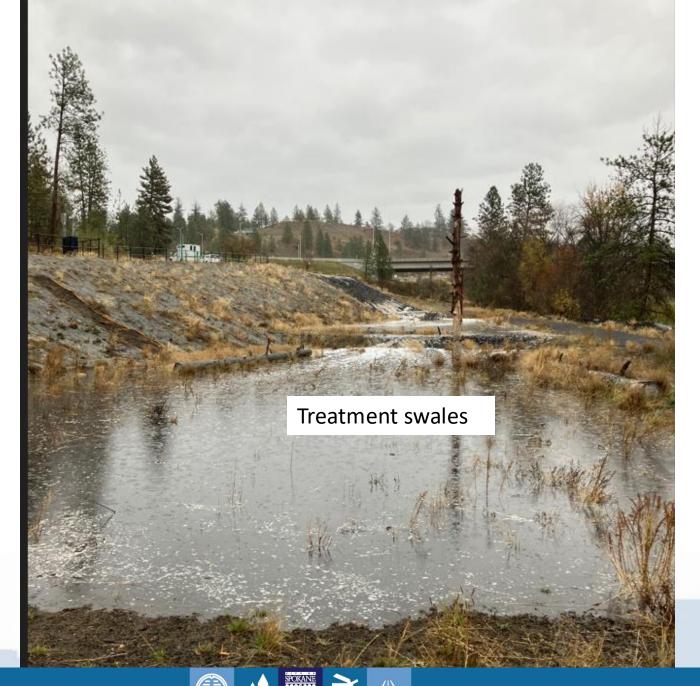






































Revised settling basin plan

