

SW
Trust Water Right
Case Studies

Farger Lake

A decorative graphic of several concentric circles representing water ripples, rendered in a lighter shade of blue, is positioned in the bottom right corner of the blue background.

Water Infrastructure Project Grant

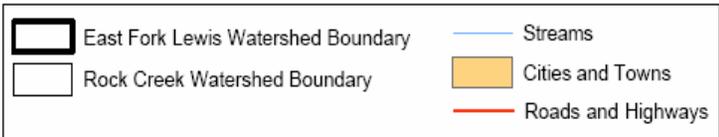
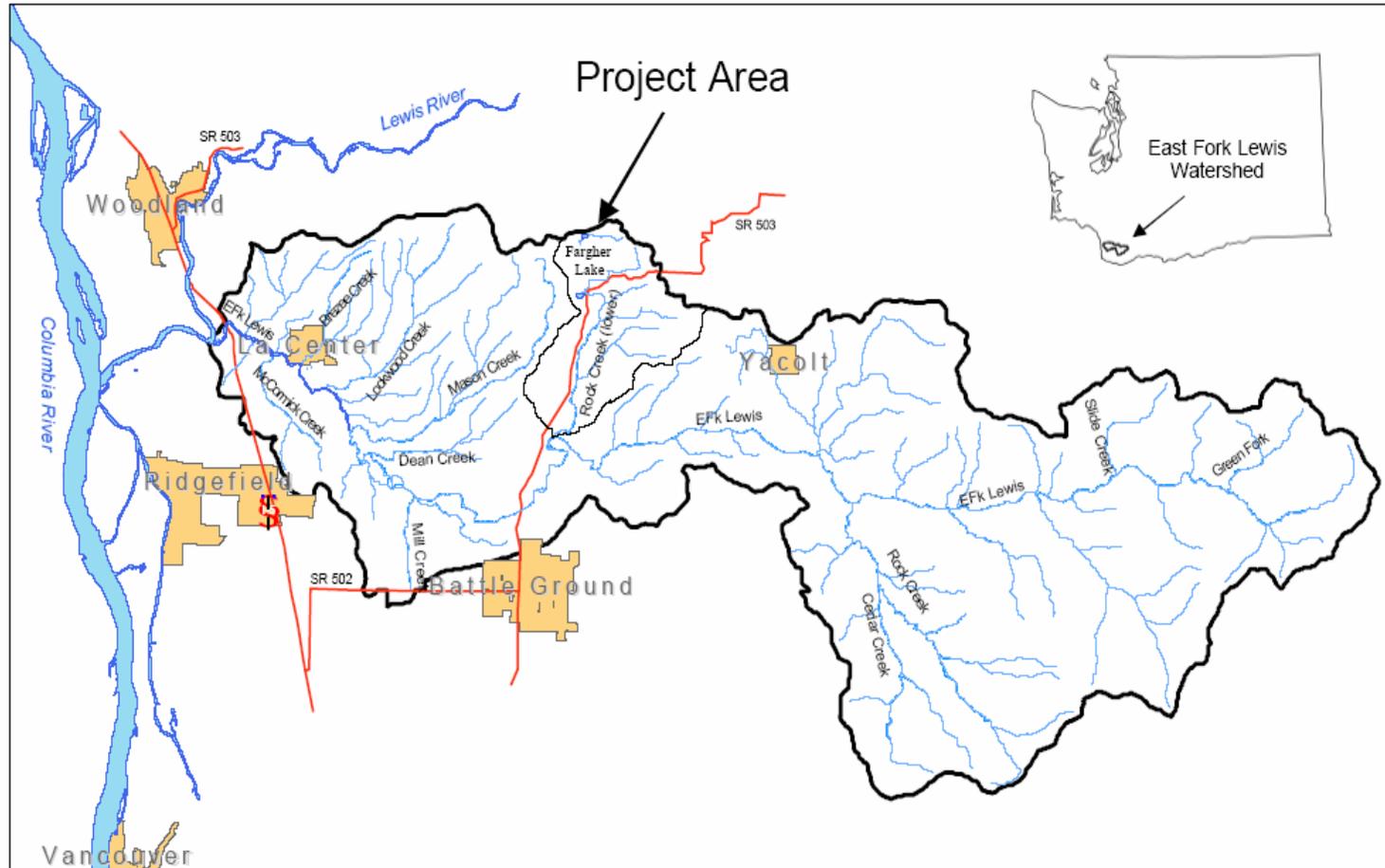
CLARK PUBLIC UTILITIES MITIGATION PLAN

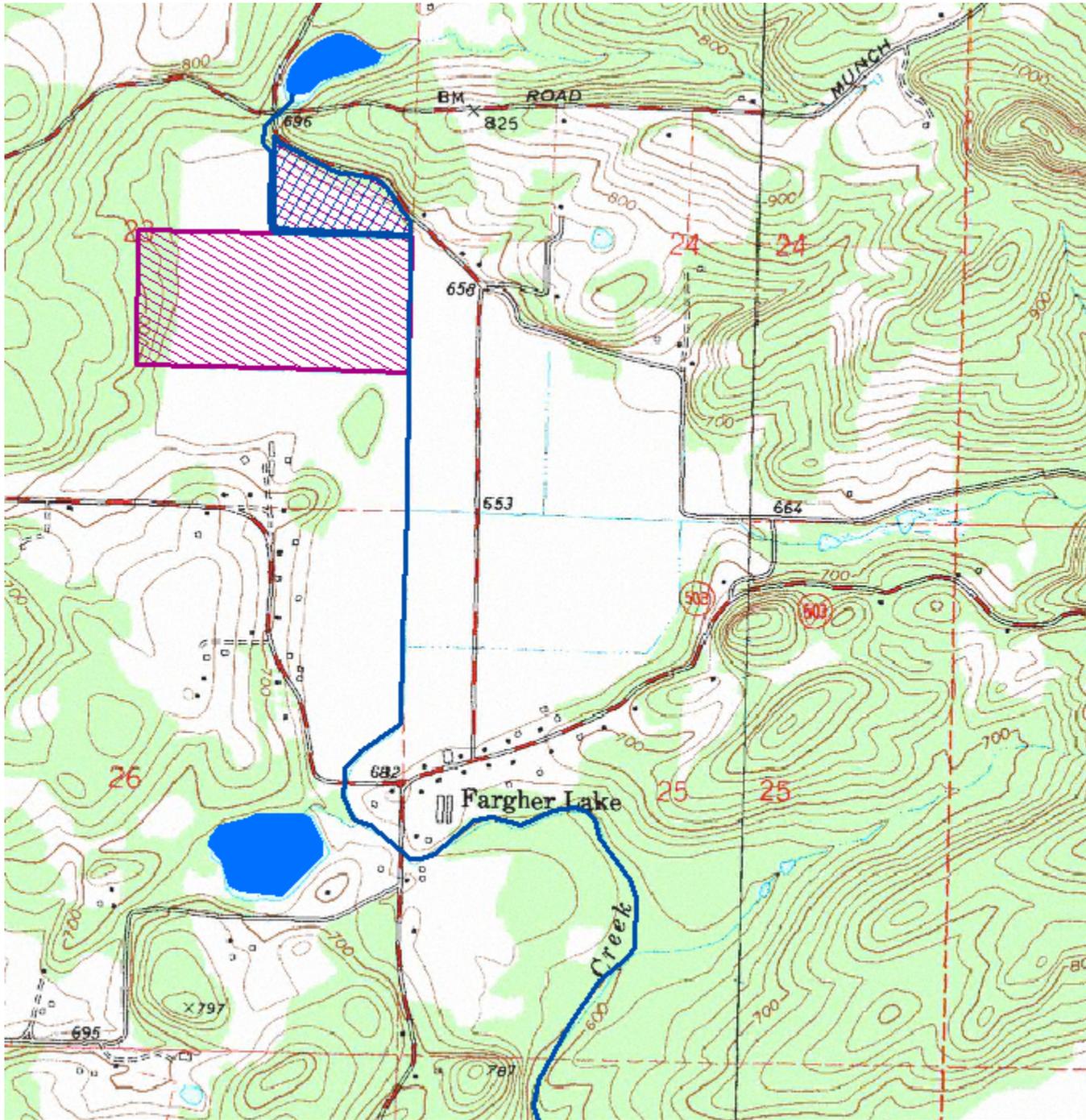
WRIA 27/28 - Watershed

- Acquire upstream water rights and habitat mitigation to offset additional future water use
- 1944 water right 0.92 cfs representing 92 acres
 - sub irrigation and wheel line systems
 - Located on Swale Creek – NF Rock Creek – East Fork Lewis River
- Develop regional long term groundwater sources while regional sources are developed
- Clark Public Utilities has identified the Alluvial deposits near Vancouver lake and sand and gravel aquifers in this area as future new water sources

PROJECT LOCATION

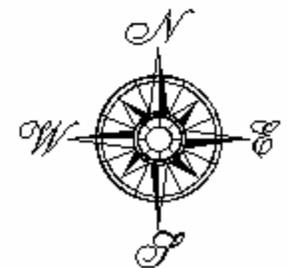
Clark Public Utilities
Fargher Lake Surface Water Right Acquisition





Place of Use Polygons

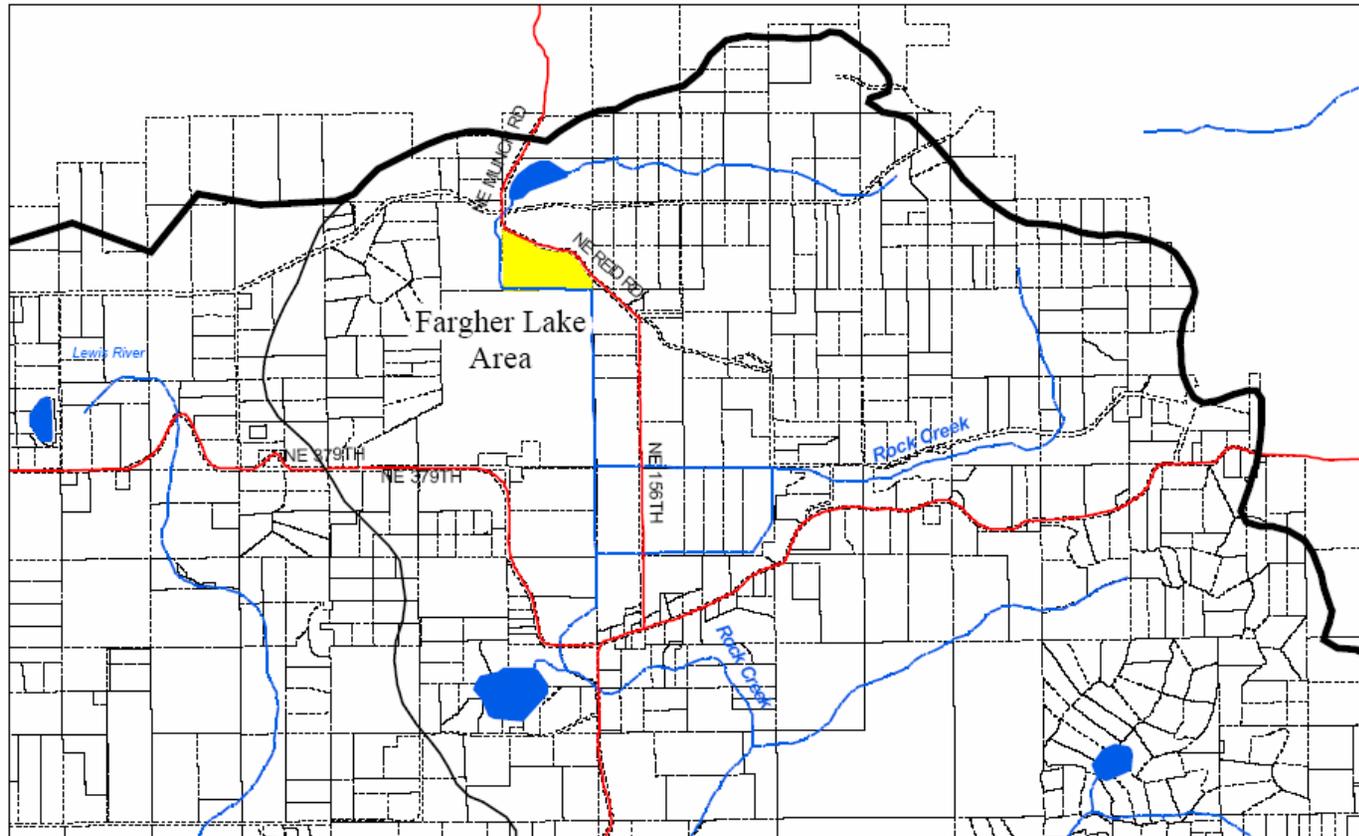
-  Possible 12 Acre Piece
-  POU



0.25 0.125 0 0.25 0.5 0.75 1

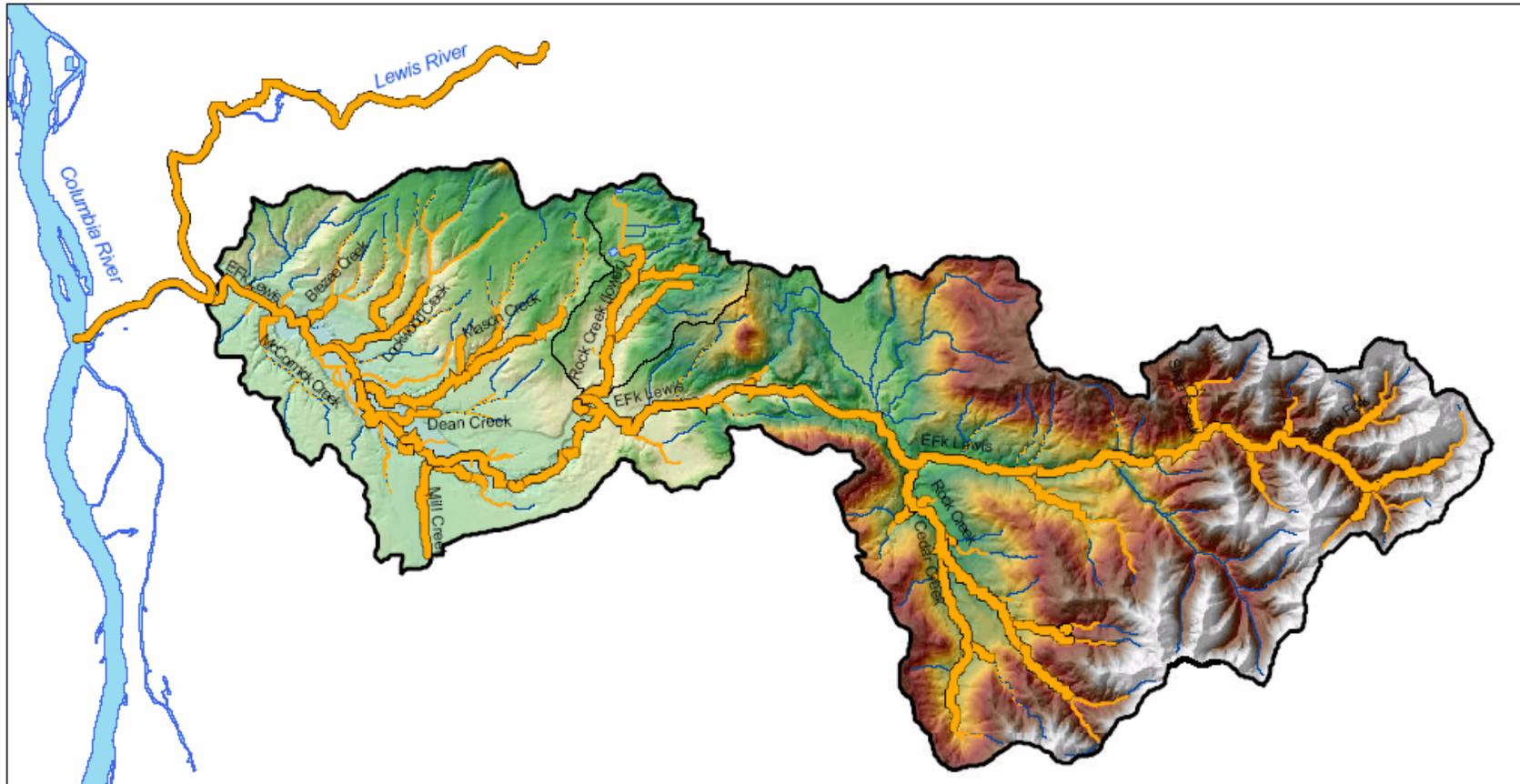
PARCEL MAP

Clark Public Utilities
Fargher Lake Surface Water Right Acquisition



FISH DISTRIBUTION

Clark Public Utilities
Fargher Lake Surface Water Right Acquisition



Fish distribution based on WA State Salmon & Steelhead Habitat Inventory & Assessment Program (SSHIAP) data (2004)

Anadromous Fish Distribution

- Documented
- Presumed
- - - Potential

0 1 2 4 6 8 Miles





Mint and CIR Calculations

Mint @	A	M	J	J	A	S	inches	AF
Prosser	0.75	2.75	4.25	10.5	9.25	5	32.5	
Battleground	0.37	1.35	2.08	5.14	4.53	2.45	15.9	
inches for 92 acres	33.76	123.8	191.3	473	416.3	225	1462.8	121.90
AF for 92 acres	2.81	10.31	15.94	39.38	34.69	18.75		
cfs in trust	0.05	0.17	0.27	0.64	0.57	0.32		

Mint at Prosser from WSU Prosser extension

Mint at Battleground is proportionate per month compared to Prosser

15.9 inches is calculated from Mint at Vancouver minus difference in effective precipitation (2.1 Inches)

Challenges

- SW met with the Clark PUD and tentatively expressed interest in purchasing this water through the *Infrastructure Grant* - if the water right was valid
- Water use for the entire growing season (A/S) as of this time undocumented for the last 5 years. Water use may only be for half of the growing season. Only a small amount of water can be used by Clark County for mitigation
- **WRIA 27/28 Watershed Plan is not completely finalized within this watershed**
- Crop requirements must be estimated
- WDFW and Lower Columbia Salmon Recovery Board would like to see Rock Creek restored with *any* additional flow

Under what conditions should Ecology accept this proposal?

- How to protect this trust water for instream flow purposes?
- How to respond to future use of water in this region that affects instream flow?
- What are the procedures that should be followed to accept this proposal?



Possible Solutions

- Purchase the water right through the grant program. Entire water right entered to the Trust Water right Program for permanent instream flow.
- Place water right as a donation into the Trust Water Right Program.
 - When the Watershed Plan is finalized they may receive more mitigation credit than ECY can through the grant assistance program.