LCRWC Agenda Slides 7/13/21

- Capacity Budget Update
- Seining Grounds, Columbia River Estuary
- Lamprey Website
- Clatskanie Floodplain Initiative (NFWF Funding Opportunity)
- WQ Report Summary



LCRWC Capacity Budget

It a rea	Linit Tuna	I Imit	Linit Coot	OWED	External.	[] starral	Total
Item	Unit Type	Number	Unit Cost	Funds	External Cash	External	Total
		Number		runas	Cash	In-Kind	Costs
Salaries, Wages and I							
Coordinator Salary	Hours	2810	\$39.00	\$109,590	\$0	\$0	\$109,590
		Categor	y Sub-total	\$109,590	\$0	\$0	\$109,590
Contracted Services				•	•	•	•
Marketing and outreach -	Each	1	\$1,800.00	\$1,800	\$0	\$0	\$1,800
newspaper, website, social							
media, mailings, etc							
IT Maintenance	Each	1	\$1,000.00	\$0	\$0	\$1,000	\$1,000
Administration Services	Each	1	\$12,000.00	\$12,000 *	\$0	\$0	\$12,000
		Categor	y Sub-total	\$13,800	\$0	\$1,000	\$14,800
Travel and Training							
mileage	Miles	3000	\$0.56	\$1,680	\$0	\$0	\$1,680
lodging for conferences and	Days	6	\$96.00	\$576	\$0	\$0	\$576
meetings							
Conference/meeting	Each	2	\$600.00	\$1,200	\$0	\$0	\$1,200
registration							
Board Training	Each	1	\$1,000.00	\$1,000	\$0	\$0	\$1,000
		Categor	y Sub-total	\$4,456	\$0	\$0	\$4,456
Materials and Suppli	es				•		•
Office Supplies	Each	1	\$1,200.00	\$1,200	\$0	\$0	\$1,200
Computer Upgrades	Each	1	\$1,800.00	\$1,800	\$0	\$0	\$1,800
Board Meeting Expenses	Each	6	\$100.00	\$600	\$0	\$0	\$600
		Categor	y Sub-total	\$3,600	\$0	\$0	\$3,600
Equipment							
			\$0	\$0	\$0	\$0	\$0
		Categor	y Sub-total	\$0	\$0	\$0	\$0
Other							
Use of office space	Months	24	\$50.00	\$0	\$0	\$1,200	\$1,200
- 1		Categor	y Sub-total	\$0	\$0	\$1,200	\$1,200
Modified Total Direct Cost Amounts				\$131,446	\$0	\$2,200	\$133,646
Total				\$131,446	\$0	\$2,200	\$133.646
			Total	,	1	,200	1 1 20,0 10

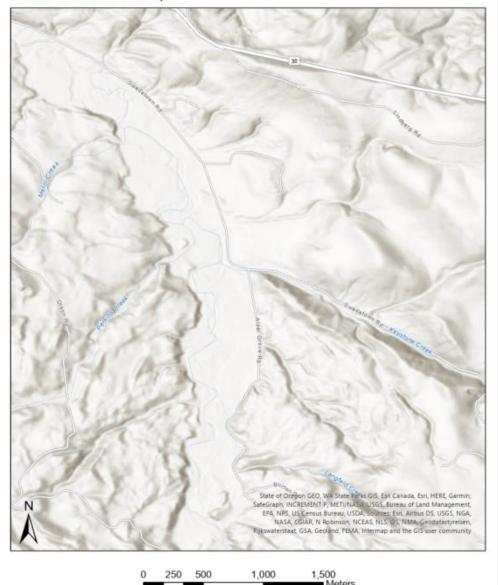
Seining Grounds Video

https://youtu.be/B2 pNYy8h38

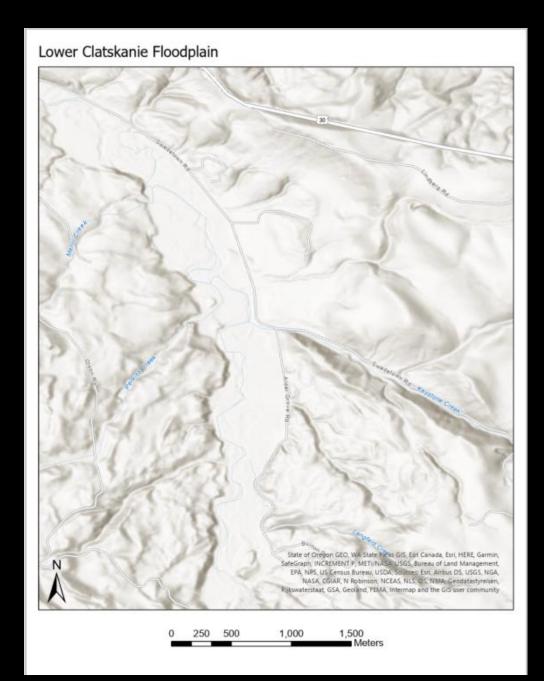
Clatskanie Floodplain



Lower Clatskanie Floodplain

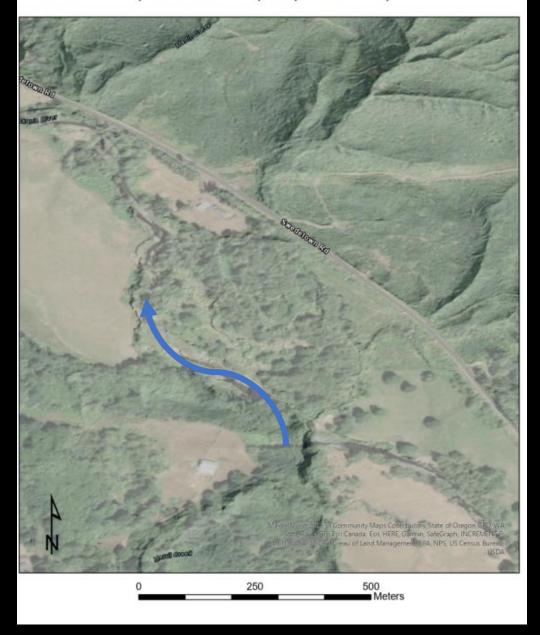


Clatskanie Floodplain



Clatskanie Floodplain

Clatskanie Floodplain Habitat Complexity and Diversity



Lamprey Passage Website

• <u>Lamprey — LOWER COLUMBIA RIVER WATERSHED COUNCIL</u>

WQ Monitoring Report

WATER QUALITY MONITORING REPORT COLUMBIA COUNTY SOIL AND WATER CONSERVATION DISTRICT WATER QUALITY TRENDS MONITORING PROGRAM 2017-2020

PREPARED FOR



Columbia County SWCD

35285 Millard Road St. Helens, OR 97051 Phone: (503) 693-5700

PREPARED BY



Lower Columbia Estuary Partnership

811 SW Naito Pkwy #410, Portland, OR 97204 Phone: (503) 226-1565

www.estuarypartnership.org

Project Goal

• Create a long-term trend monitoring network to characterize ambient water quality conditions for temperature, bacteria, and turbidity in the Clatskanie River, Beaver Creek, Milton Creek, and Scappoose River watersheds



WQ MONITORING METRICS **Beaver Creek** Clatskanie River Milton Creek North Scappoose Creek atershed Boundaries South Scappoose Creek Milton Creek North Scappoose Creek South Scappoose Creek

Grab Samples

✓ E. Coli Bacteria

 Monthly samples were collected during the summer at a few sites in 2017 and this was expanded to year long monthly sampling and summer bi-monthly sampling at all locations in fall 2019 - Current.

✓ Turbidity

Monthly samples collected at all sites 2017-Current

√ Conductivity

Monthly samples collected starting in 2018-Current

√ pH and Dissolved Oxygen

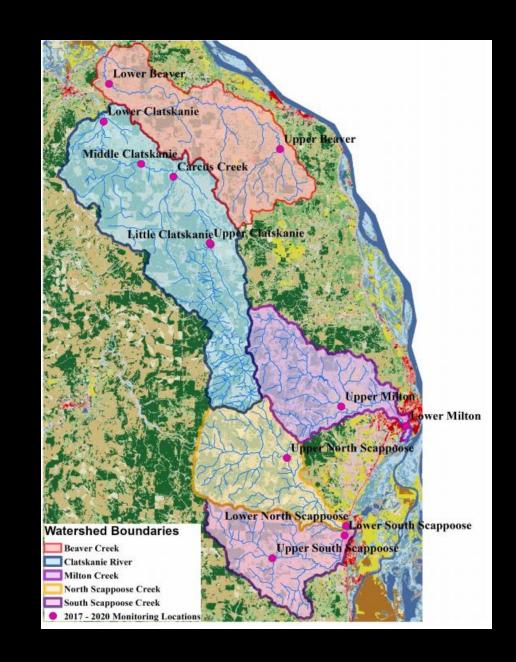
Monthly Samples collected Starting February 2021 – Current

Continuous Monitoring

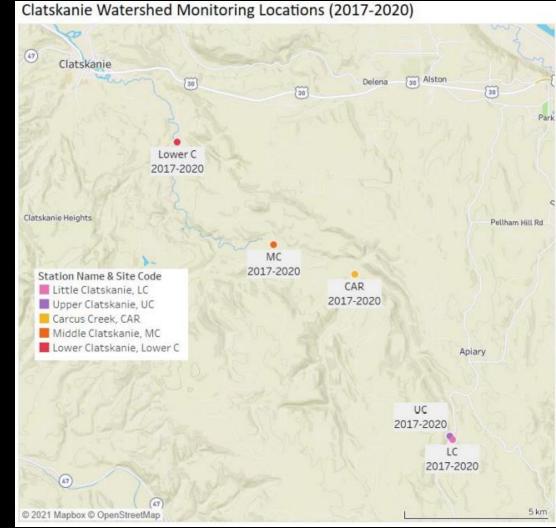
√ Temperature Monitoring

Half-hourly logging of stream temperatures from 2017-Current, however data gaps have occurred due to equipment failure or loss

Monitoring Site Locations



Monitoring Site Locations-Clatskanie River Watershed
Clatskanie Watershed Monitoring Locations (2017-2020)



Data Summary-Clatskanie River Watershed



WATER QUALITY THRESHOLDS

Monitoring is done following a Sample and Analysis Plan (SAP) and data collected is publicly available through the ODEQ:

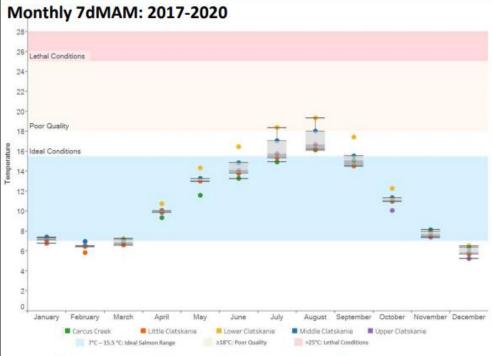
Water Quality Parameter	Equipment	Accuracy
E. coli Bacteria Counts	Lab Analysis	(+/-) 0.5 log (MPN/100ml)
Turbidity	Hach Turbidity Meter	(+/-) 5% of standard value (NTU)
Stream Water	HOBO Data Logger and	(+/-) 0.5 °C
Temperature	NIST Digital Thermometer	

Parameters	Need	Acceptable Range	Source
E. coli	General	<406 MPN/100ml (DEQ)	DEQ regulatory standards (OAR
Bacteria		or	340-041),
		<235 MPN/100ml (EPA)	EPA recommended Criteria
Turbidity	Salmon Habitat	<10 NTU	University of Wisconsin
			Extension 2006
Temperature	Salmon Habitat: Year-round	18 [°] C 7-day moving average maximum (7dMAM)	DEQ regulatory standards for salmonid rearing habitat
Temperature	Salmon Habitat: Healthy Adult	7.2-15.6°C (>25°C Lethal)	OWEB Water Quality Technical Manual
Temperature	Salmon Habitat: Healthy Juvenile	12.2-13.9°C (>25°C Lethal)	OWEB Water Quality Technical Manual

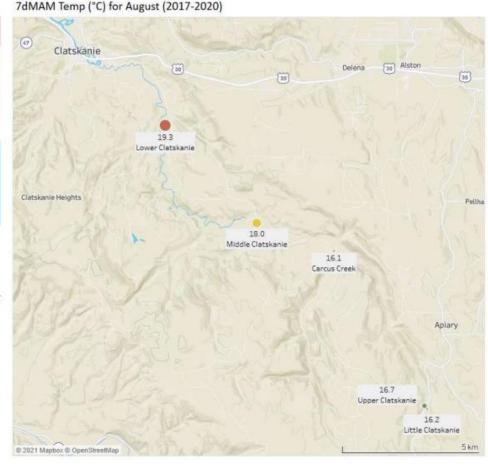
More: https://www.estuarypartnership.org/sites/default/files/2020-03/Kidd2011WaterQualityStandardsSummary.pdf

Data Summary-Temperature, Clatskanie River Watershed

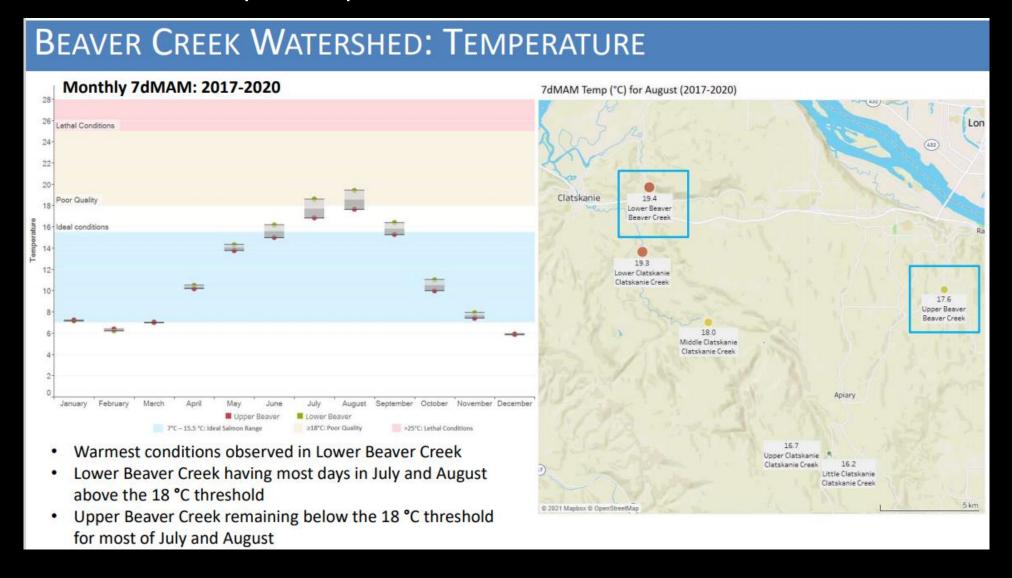
CLATSKANIE RIVER WATERSHED: TEMPERATURE



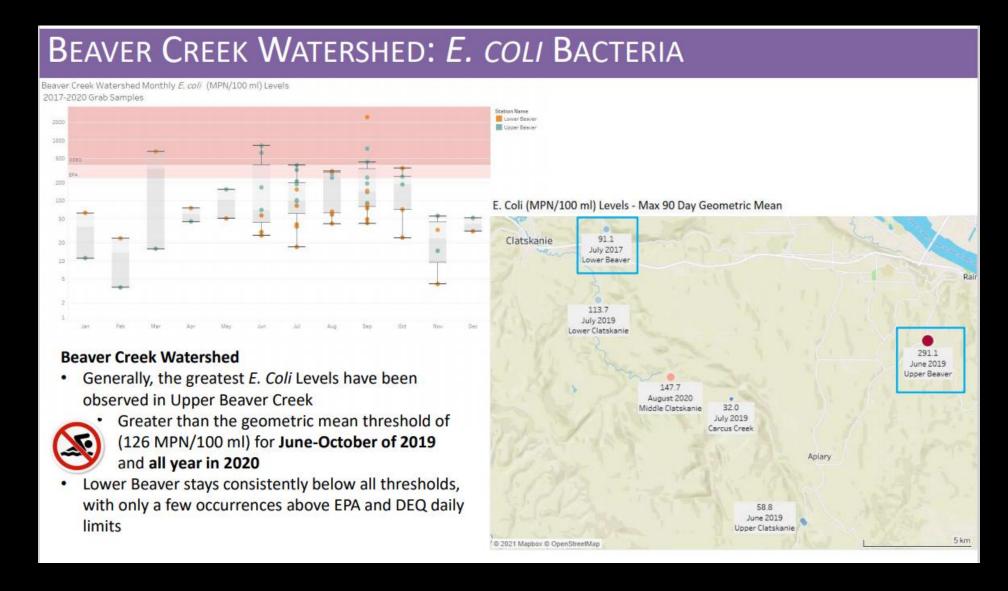
- Warmest conditions observed in Middle and Lower Clatskanie monitoring locations
- Lower Clatskanie having most days in July and August above the 18 °C threshold
- Middle Clatskanie having about half the days of July and August above 18 °C in the summer



Data Summary-Temperature, Beaver Creek Watershed

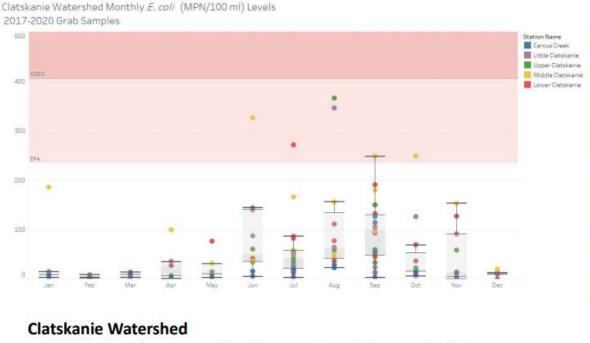


Data Summary-E. Coli, Beaver Creek Watershed

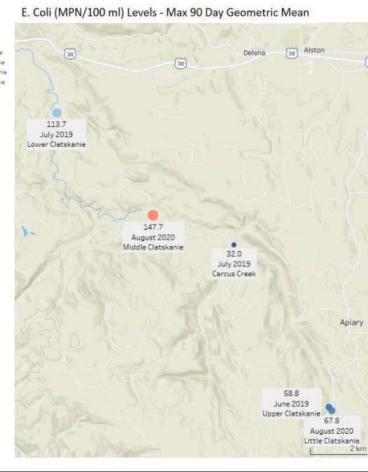


Data Summary-E. Coli, Clatskanie River Watershed

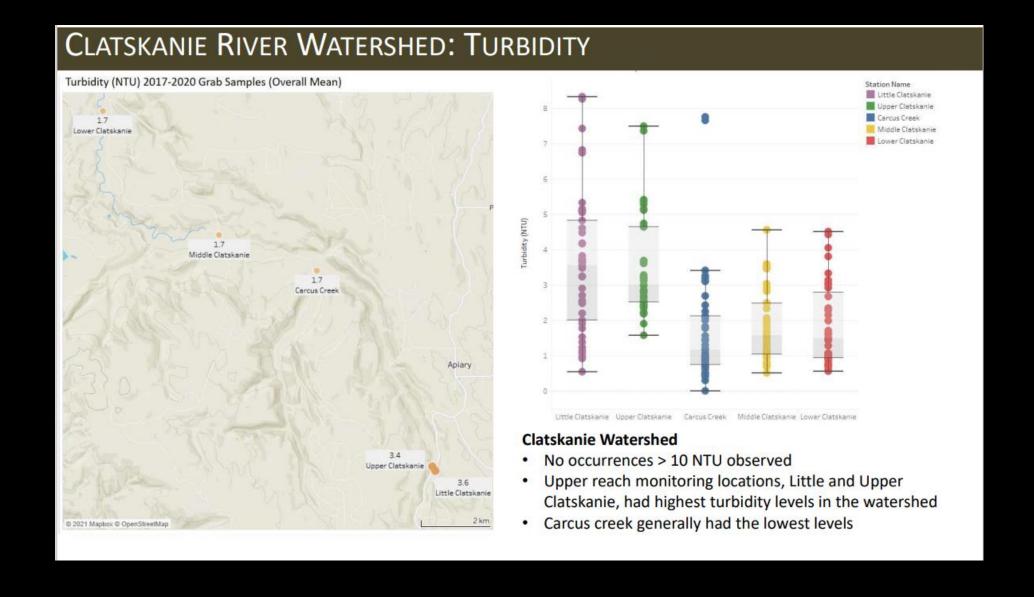
CLATSKANIE RIVER WATERSHED: E. COLI BACTERIA



- Middle Clatskanie consistently experienced the greatest E. Coli levels including a geometric mean > 126 MPN/100 ml June-Sept (2019), and July-Nov (2020)
- All locations except Carcus Creek had at least one sample > 235 MPN/100 ml (EPA Threshold)



Data Summary-Turbidity, Clatskanie River Watershed



Data Summary-Turbidity, Beaver Creek Watershed

