

2021 Zebra/Quagga Mussel Early Detection Monitoring Plan

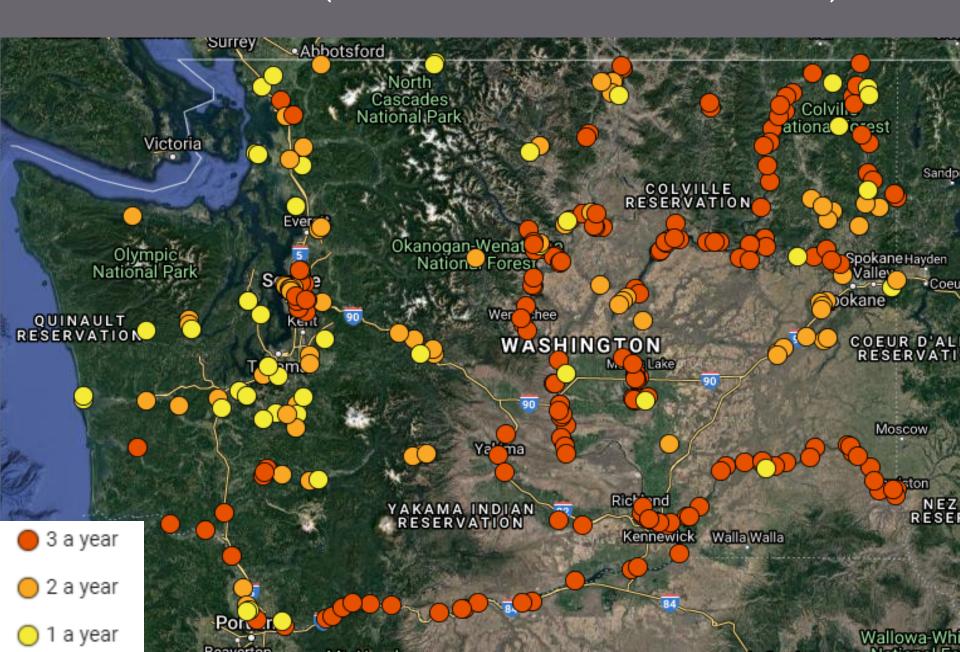
Columbia River Basin Team Meeting June 8, 2021

Washington Department of Fish and Wildlife Aquatic Invasive Species Unit Jesse Schultz

Co-Partners

Sampler	Water Body	Reservoir
Chelan County PUD	Columbia River	Entiat/Rocky Reach
Confederated Tribes of the Colville Reservation	Columbia River	Roosevelt and Rufus Woods
Dougals County PUD	Columbia River	Pateros
Grant County PUD	Columbia River	Priest Rapids and Wanapum
Seattle City Light	Pend Oreille River	Boundary
Snohomish County PUD	Sultan River	Spada
Spokane Tribe of Indians	Columbia River	Roosevelt

2021 Sites (128 water bodies 303 sites)



Continued Baseline of all Water Bodies in Washington

- Site information for risk assessment
- Water quality
 - Dissolved calcium
 - pH
 - Salinity
 - Temperature
- Surface visual shoreline survey
- AIS signage



Protect Your Waters

From Aquatic Invasive Species

BEFORE and AFTER launching boat

CLEAN

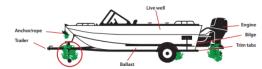
Clean interior/exterior of boat, trailer, & vehicle of any organic matter such as aquatic plants & mud. Dispose organic matter & unused bait in trash.

DRAIN

Drain bilge, ballast, wells & buckets before you leave area. Keep bilge plug out during transport.

DRY

Dry equipment before launching watercraft into another body of water.



For information on FREE boat inspections, call 1-888-WDFW-AIS (933-9247) or visit wdfw.wa.gov/ais.

Before you launch a boat that is not registered in Washington, you MUST purchase an Aquatic Invasive Species Prevention Permit.

How to buy:

- Online at fishhunt.dfw.wa.gov
- Find a license dealer near you at wdfw.wa.gov/licenses/dealers

Funds from permit sales supports efforts to keep Washington's waters free of aquatic invasive species and manage infestations when prevention fails.

Avoid Citations or Fines

Failure to possess an Aquatic Invasive Species Prevention Permit – Infraction — BCW 7215.160

Possession of aquatic conveyance not meeting dean drain requirements – Infraction — BCW 77.135.110







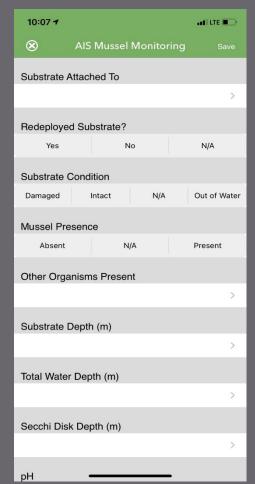
Early Detection Zebra/Quagga Mussel Monitoring

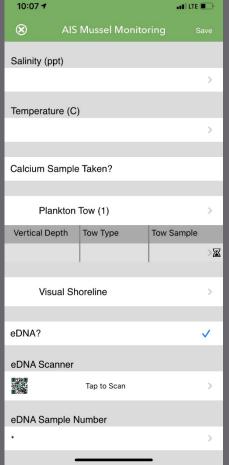
Sample Method	Goal
Horizontal and Vertical Plankton Tows	1,650
Artificial Substrates	700
Surface Visual Shoreline	850
Dissolved Calcium	925
Water Quality (pH, salinity, and	
temperature)	925
eDNA	300
Sediment Samples	700

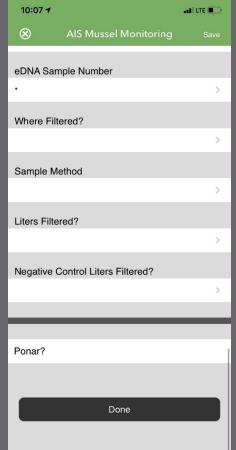
iForms 2



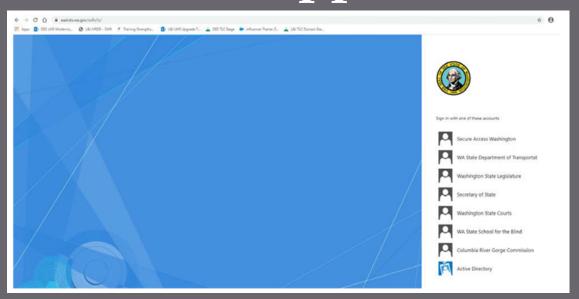
10:06 🗸		••• LTE
8	AIS Mussel Monitoring	
Site ID *		
		>
Date *		
		>
Samplers	*	
		>
Additional	Samplers *	
		>
Location		
		>
Latitude (F	Read-Only):	
Longitude (Read-Only):		
Substrate Presence		
Absent	Presence N/A	Present





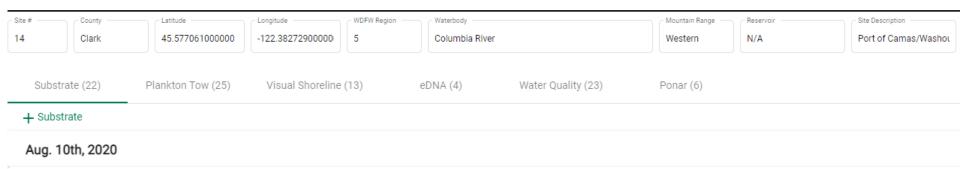


The App!





Site



Teams

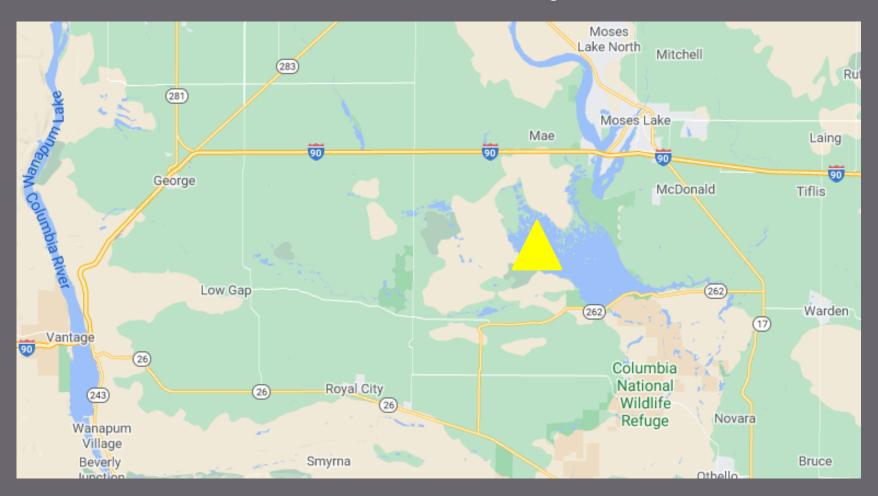
- 2020
- May 18 October 30
- Two 2-person teams
- Eastern WA Spokane Team
- Western WA Olympia Team
- Monday-Thursday 100% in field monitoring
- 2021
- May 3 October 30
 - Same teams as 2020, but now some staff permanent
- July 5 October 30 adding Central WA Ellensburg/Yakima Team! Most monitors WDFW has ever had!
 - Increase effort and samples
 - Increase team moral
 - Schedule flexible for time to complete office work

Northern Pike or Grass Pickerel



- Columbia River/Lake Wallula Kennewick, WA Benton County
- Reported May 10, 2021
- Given to WDFW Genetics Lab June 2, 2021 to analyze

Northern Pike Potholes Reservoir State Park Grant County



- October 12, 2020 eDNA positive detection
- March 23, 2021 conducted 5 eDNA samples all negative

Thanks



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