



Agenda
Parks and Recreation Commission Meeting
Thursday, December 14, 2023
Richland City Hall ~ Council Chambers
625 Swift Boulevard

Commission Members: Chair Buelt, Vice-Chair Mason, and Members Arnquist, Cunningham, Gutierrez, Heaton, Lunstad, Nune, and Thallapally

Liaisons: Council Liaison: Kent
Council Liaison Alternate: Richardson
Staff Liaison: Schiessl

Regular Meeting - 6:00 p.m.

Welcome

Pledge of Allegiance

Call to Order/Attendance:

Approval of Agenda: (Approved by Motion)

Approval of the December 14, 2023, Parks and Recreation Commission Meeting Agenda

Approval of Minutes: (Approved by Motion)

Approval of the following Parks and Recreation Commission Meeting and Workshop Minutes:

- September 14, 2023, Meeting (Revised)
- November 9, 2023 Meeting
- November 9, 2023, Special Workshop

Council Liaison Report:

Recreation Report:

Parks & Public Facilities Report:

Public Comments:

Presentations:

Unfinished Business:

New Business:

3. 2024 Parks and Recreation Commission Chair and Vice Chair Election
 - Joe Schiessl, Deputy City Manager
4. Summary of Benton Franklin Health District Presentation of End of Season Harmful Cyanobacterial Blooms
 - Joe Schiessl, Deputy City Manager
5. Tapteal Greenway Trail in the Vicinities of Barker Ranch and Horn Rapids

- Joe Schiessl, Deputy City Manager

Commission Comments:

Adjournment

Any individual who has difficulty attending the meeting in-person may request to provide comments remotely. (Ch. 42.30 RCW) Requests for sign interpreters, audio equipment, and/or other special services must be received 48 hours prior to the meeting by calling the City Clerk's Office at 509-942-7389.



PARKS AND RECREATION COMMISSION AGENDA ITEM COVERSHEET

Meeting Date: 12/14/2023

Agenda Category: Approval of Minutes

Prepared By:

Subject:

Approval of the following Parks and Recreation Commission Meeting and Workshop Minutes:

- September 14, 2023, Meeting (Revised)
- November 9, 2023 Meeting
- November 9, 2023, Special Workshop

Department:

Parks & Public Facilities

Recommended Motion:

Summary:

Fiscal Impact:

Attachments:

1. 2023.09.14 Parks and Recreation Commission Meeting Minutes - Revised
2. 2023.11.09 Parks and Recreation Commission Meeting Minutes
3. 2023.11.09 Parks and Recreation Commission Special Workshop Minutes



MINUTES

Richland Parks and Recreation Commission Meeting

Richland City Hall – Council Chambers

625 Swift Boulevard

Thursday, September 14, 2023 ~ 6:00 p.m.

CALL TO ORDER:

Vice Chair Mason called the meeting to order at 6:00 p.m.

ATTENDANCE:

Vice Chair Mason and Commissioners Arnquist, Cunningham, Heaton, Gutierrez, Lunstad, Nune, and Thallapally were present.

Chair Buelt was absent.

Also, in attendance were Parks and Public Facilities Director Hester, Recreation Manager Piper, and Council Liaison Kent.

1. APPROVAL OF THE SEPTEMBER 14, 2023 AGENDA:

Commissioner Lunstad moved to approve the September 14, 2023 Parks and Recreation Commission meeting agenda. Commissioner Thallapally seconded the motion. Motion approved 8-0.

2. APPROVAL OF THE AUGUST 24, 2023 SPECIAL MEETING MINUTES:

Commissioner Heaton moved to approve the August 24, 2023 Parks and Recreation Commission special meeting minutes. Commissioner Gutierrez seconded the motion. Motion approved 8-0.

COUNCIL LIAISON REPORT:

Council Liaison Kent presented the Council Liaison Report.

Subjects included:

Free Home Energy Kits are available online through the Energy Services department. Home energy kit is available to Richland utility customers who use all electricity to heat their homes.

RECREATION REPORT:

Recreation Manager Piper presented the Recreation Report.

Subjects included:

Cruizin Car show, NFL Flag Football program, Youth basketball, and 2023 Winter Wonderland.

PARKS AND FACILITIES REPORT:

Parks and Public Facilities Director Hester presented the Parks and Public Facilities Report.

Subjects included:

Fitness Court completion of concrete pad, parking lot at Badger Mountain South, Keene Trail, Flagpole at Lee Landing, West Village Park, planning of Leslie Groves Long Range plan, approval of Bernard Hosey art, Public Works Department will take on the Park Planning/Project position.

PUBLIC COMMENTS:

None; public comment closed at 6:16 p.m.

PRESENTATIONS:

3. South George Washington Way Intersection Project

- Andrey Avetisyan, Public Works Civil Engineer II

Public Works Department staff explained the project features of the section 4(f) review process and answered Commission questions.

Staff explained that the City is currently preparing the engineering design of the South George Washington Way Intersection Improvements project located near the intersection of George Washington Way and Aaron Drive/Columbia Point Drive. This project includes a new southbound through lane on George Washington Way, extending approximately 600 feet north, and an added westbound left-turn lane, creating a third westbound left-turn lane. These improvements will require traffic signal modifications, including relocating and installing new signal poles. The project will add a sidewalk to eliminate the missing sidewalk connection along the north side of Columbia Point Drive adjacent to the golf course. These additions will improve intersection performance and safety for vehicle and non-motorized users.

Some of these improvements, specifically at the northeast corner of this intersection, will take place on City-owned property that makes up the Columbia Point Golf Course. A small portion of the golf course parcel will be acquired for street right of way. The golf course property, being a publicly owned recreational facility, requires special consideration during the environmental review of the street improvement project. Federal rules, called section 4(f), require an evaluation of the impacts on recreational facilities by street improvement projects. Section 4(f) of the Department of Transportation Act of 1966 prohibits FHWA from approving land use from a significant

publicly owned park, recreation area, wildlife and waterfowl refuge, or any historic site unless certain conditions are met. One such condition occurs when a project's impacts are minor. In this case, the project will impact a very small portion of the golf course parcel but will not impact any improved features or functions of the golf course. This is deemed a *de minimus* impact determination of the 4(f) resource, meaning it must have no adverse impact on it. The attached exhibits show that this project will indeed have a *de minimus* impact on the golf course activities as it will not adversely affect its features, attributes, or activities.

The environmental review process requires a public engagement element before making a formal *de minimus* decision. This public meeting fulfills the requirement for the City to present and discuss the subject as an agenda item, inviting public comment. City staff agrees that the impact qualifies as *de minimus* and intends to document that position, subject to the input received at the meeting.

UNFINISHED BUSINESS:

NEW BUSINESS:

4. New Playground Equipment at Howard Amon Park

- Laura Hester, Parks and Public Facilities Director

Director Hester provided an overview of the proposed purchase of the new replacement playground equipment at Sturgeon Cove Playground in Howard Amon Park. Hester explained to the committee members that the new playground equipment theme of the ship will remain the same, the equipment will be all-inclusive, and the new design is designed to be safer than the current structure. Hester explained that rearranging the space allowed more space to install larger equipment than the current structure. The current playground was installed in 2001 and has reached the end of its life.

In conclusion, Hester answered the commission members' questions.

Commissioner Heaton moved the recommendation to the City Council to approve the purchase from Great Western Installation for the new playground equipment at Sturgeon Cove in Howard Amon Park. Commissioner Gutierrez seconded the motion. Motion approved 8-0.

ADJOURNMENT:

The meeting adjourned at 6:34 p.m.

Prepared by: _____
Patty Roe, Parks and Public Facilities - Administrative Assistant II

Reviewed by: _____
Joe Schiessl, Deputy City Manager

Approved by: _____
Chair Jim Buelt, Richland Parks and Recreation - Chair



MINUTES

Richland Parks and Recreation Commission Meeting

Richland City Hall – Council Chambers

625 Swift Boulevard

Thursday, November 9, 2023 ~ 6:00 p.m.

CALL TO ORDER:

Chair Buelt called the meeting to order at 6:00 p.m.

ATTENDANCE:

Chair Buelt, Vice Chair Mason, and Commissioners Cunningham, Heaton, Lunstad, Nune, and Thallapally were present.

Commissioners Arnquist and Gutierrez were absent.

Also in attendance were Recreation Manager Piper and Council Liaison Kent.

APPROVAL OF THE NOVEMBER 9, 2023, AGENDA:

Commissioner Heaton moved to approve the November 9, 2023, Parks and Recreation Commission meeting agenda. Commissioner Lunstad seconded the motion. Motion approved 7-0.

APPROVAL OF THE FOLLOWING MEETING AND WORKSHOP MINUTES:

- September 14, 2023, Meeting
- October 26, 2023, Workshop

Commissioner Heaton moved to approve the September 14, 2023, Meeting and October 26, 2023, Workshop Parks and Recreation Commission minutes. Commissioner Cunningham seconded the motion. Motion approved 7-0.

COUNCIL LIAISON REPORT:

Council Liaison Kent presented the Council Liaison Report.

Subjects included the 2024 budget approval, which includes several park projects and the election of council members.

RECREATION REPORT:

Parks and Recreation Manager Piper presented the Recreation Report. Subjects included 2023 Winter Wonderland events and activities, which will light up December 1st.

PARKS AND FACILITIES REPORT:

Parks and Recreation Manager Piper presented the Parks and Public Facilities Report. Subjects included the National Fitness Campaign fitness court, scheduled for installation in the spring of 2024.

PUBLIC COMMENTS:

Neil Heeney – 5801 Glennbrook Loop, West Richland, WA: Mr. Heeney, a barefoot skier, provided comment on the non-motorized area between Nelson Island and Leslie Groves on the Columbia River. Focused on barefoot skiing. See Mr. Heeney's application to the Corp of Engineers submitted for the record.

Chris Bolkan – 450 McDonald Drive, Pasco, WA: Mr. Bolkan provided comment on the non-motorized area between Nelson Island and Leslie Groves on the Columbia River. Focused on barefoot skiing.

Del Ballard – 66 Newcomer St. Richland, WA: Mr. Ballard provided comment on the Donation Park Bench program in Leslie Groves Park. See Mr. Ballard's written statement submitted for the record.

Elinor Kasza – 1616 Hains Ave, Richland, WA: provided comment about the draft Leslie Groves Park Plan focused on vegetation management, safety, and maintenance.

PRESENTATIONS:

UNFINISHED BUSINESS:

NEW BUSINESS:

ADJOURNMENT:

The meeting adjourned at 6:34 p.m.

Prepared by: _____
Patty Roe, Parks and Public Facilities - Administrative Assistant II

Reviewed by: _____
Joe Schiessl, Deputy City Manager

Approved by: _____
Chair Jim Buelt, Richland Parks and Recreation - Chair



MINUTES

Richland Parks and Recreation Commission Special Workshop
Richland City Hall – 625 Swift Boulevard
Thursday, November 09, 2023 ~ 6:30 p.m.

CALL TO ORDER:

Chair Buelt called the meeting to order at 6:50 p.m.

ATTENDANCE:

Chair Buelt, Vice Chair Mason, and Commissioners Lunstad, Heaton, Cunningham, Nune and Thallapally were present.

Commissioners Arnquist and Gutierrez were absent.

Also in attendance was Recreation Manager Piper

PRESENTATIONS:

1. Richland Police Department
Sergeant Hyrum Stohel

Sergeant Hyrum presented the Park Safety report to the commission with a PowerPoint presentation.

The Park Safety presentation included calls for service, cases, mapped case types, and high-crime parks throughout the parks in Richland.

Sergeant Stohel engaged in a question-and-answer conversation throughout the presentation with the commission members.

DISCUSSION ITEMS:

2. Parks and Recreation Commission 2023 Goals
Jim Buelt, Chair

Chair Buelt led the discussion regarding the 2023 Parks and Recreation Commission Goals and an action plan to organize and create the goals for 2024. The goals for 2024 will continue at a future workshop.

ADJOURNMENT:

The workshop adjourned at 8:47 p.m.

Prepared by: _____
Patty Roe, Administrative Assistant II

Reviewed by: _____
Joe Schiessl, Deputy City Manager

Approved by: _____
Chair Jim Buelt, Richland Parks and Recreation Commission



PARKS AND RECREATION COMMISSION AGENDA ITEM COVERSHEET

Meeting Date: 12/14/2023

Agenda Category: New Business

Prepared By: Joe Schiessl, Deputy City Manager

Subject:

2024 Parks and Recreation Commission Chair and Vice Chair Election

Department:

Parks & Public Facilities

Recommended Motion:

I nominate _____ for Vice Chair.

I nominate _____ for Chair.

Summary:

Each year, the Parks and Recreation Commission (PRC) elects a Chair and Vice Chair. This evening, the PRC will entertain nominations to elect the officers for 2024.

Terms will be effective January 11, 2024.

Fiscal Impact:

Attachments:



PARKS AND RECREATION COMMISSION AGENDA ITEM COVERSHEET

Meeting Date: 12/14/2023

Agenda Category: New Business

Prepared By: Joe Schiessl, Deputy City Manager

Subject:

Summary of Benton Franklin Health District Presentation of End of Season Harmful Cyanobacterial Blooms

Department:

Deputy City Manager

Recommended Motion:

Discussion only.

Summary:

The Benton Franklin Health District recently summarized the end of season Harmful Cyanobacterial Blooms to regional agencies. The Health District's presentation is attached. Richland staff will summarize the report and provide recommendations for Parks Commission discussion. No action will be taken tonight on this issue.

Fiscal Impact:

None at this time.

Attachments:

1. End of 2023 Season HAB Summary

END OF SEASON HARMFUL CYANOBACTERIAL “BLOOMS”

Jim Coleman, Climate Effects Specialist, Benton-Franklin Health District

11/29/23



Toxin Level Review

- Recreational Water State Threshold
 - Anatoxin-a 1 ug/L
 - Microcystin 8 ug/L
- Drinking Water
 - Both Anatoxin-a and Microcystin 0.3 ug/L in finished drinking water.
 - BFHD only tests the raw water with ELISA
 - If BFHD detects 0.2 ug/L in raw water, then additional samples taken.
- Drinking Water Toxin levels set by State DOH
- Drinking Water Toxin levels seem fairly consistent among states
- Rec Water Levels Vary Anatoxin WA=1.0 ug/L, Utah=15 ug/L

Drinking Water Results (Good News)

Anatoxin-a

				BFHD (ELISA)	KCEL (LC-MS)
Richland					
73	8/14/2023	1 Snyder St- Raw Intake	S01	0.542	0.047
102	9/11/2023	1 Snyder St- Raw Intake	S01	0.441	0.132
74	8/14/2023	Wellfield Retention Pond	S04	0.234	0.025
Pasco					
78	8/14/2023	West Pasco WTP	S09	0.313	<MRL
77	8/14/2023	Butterfield Raw Tap	S01	0.372	<MRL
Kennewick					
	7/10/2023	Intake Screen	SO6	0.279	<MRL
48	7/10/2023	Columbia Park Fishing Pond	S05	0.221	<MRL
74	8/14/2023	Wellfield Retention Pond	S04	0.234	<MRL

MRL=Less than Reportable Limit

No drinking water samples that exceeded 0.2 ug/L for microcystins.

ELISA testing for low levels of cyanotoxin....not perfect

- 0.150 ug/L Limit of Detection (LOD)=Yes/No for presence
- 0.150 ug/L is lowest standard in the calibration curve and next standard is 0.4 ug/L
- After discussions with large labs (Like EPA) that perform test for others, they suggest critical aspect was Limit of Quantitation (and not LOD).
- Two different labs indicated that their LOQ was 0.4 ug/L for anatoxin-a. Lower for microcystin (?) KCEL does not use ELISA for anatoxin-a analysis.
- Based on my experience in samples I analyzed this season, I agree.

What does this mean for future work?

- Toxin levels in Columbia are in a low (but chronic?) state which may fluctuate over time. Level is difficult to quantitate accurately with ELISA. Toxins may accumulate in places(more on this later)
- ELISA is still good pre-screening technique.
- ELISA seems to overestimate levels (better than reverse scenario)
- Only 8 samples had to be sent to KCEL which is a major cost savings.
- Reduce frequency of microcystin screening unless cyanobacteria type change? Perhaps just during peak of season?

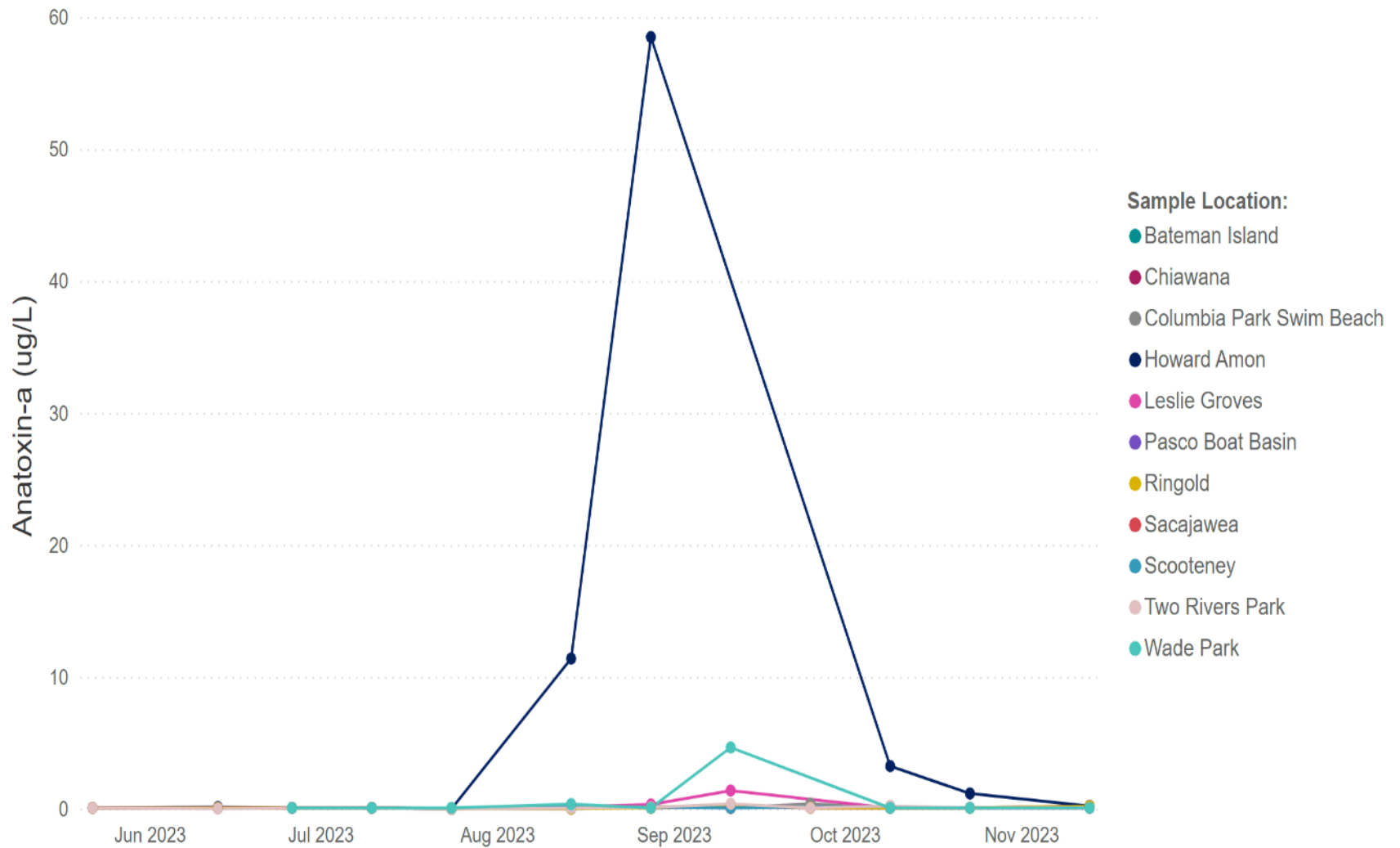
Recreational Sampling Results 2023 (Anatoxin-a)

8/16/2023 HA Swim Dock	11.4
8/18/2023 Dog illness at HA reported	
8/21/2023 HA Swim Dock	1.04
8/28/2023 HA Swim Dock	58.5
9/4/2023 HA Swim Dock	1.03
9/11/2023 Dog Death-Columbia Point	
9/11/2023 HA Swim Dock	10.2
9/11/2023 Leslie Groves	1.39
9/13/2023 Columbia Point	0.344
9/11/2023 Wade Park	4.66
10/3/2023 Dog Death-Howard Amon	
10//2023 HA Near where dog died	1.52
10/9/2023 HA Swim Dock	3.17
10/24/2023 HA Swim Dock	1.34

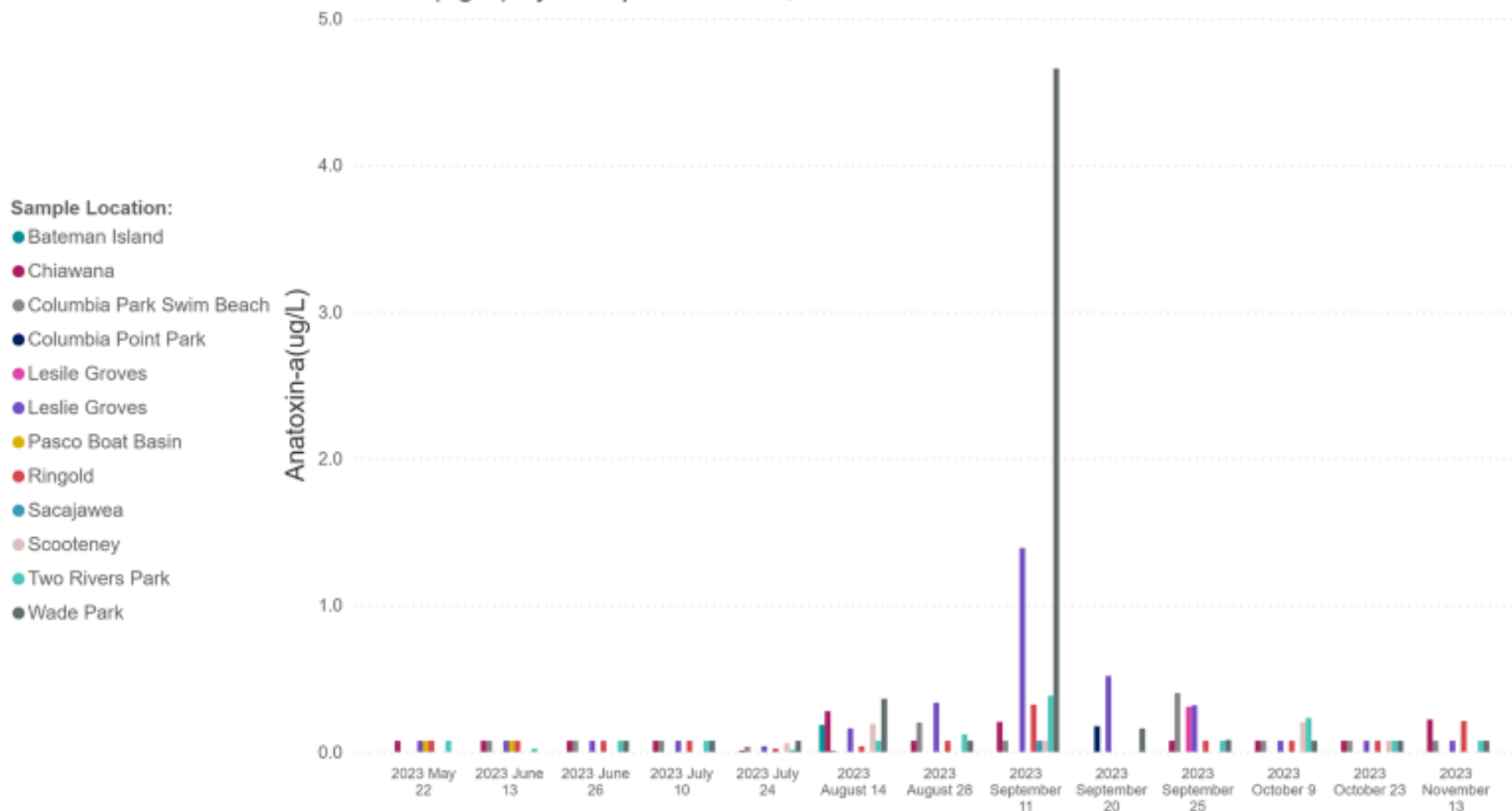
9/11/23 Sampling (Worse Case Scenario)

HA Swim Dock	10.2
HA Shoreline Near Swim Dock	16.4
HA Near Boat Launch	0.588
HA Near Lee St Dock	0.528
Brown Mat Sample	756
Green Mat Sample	265

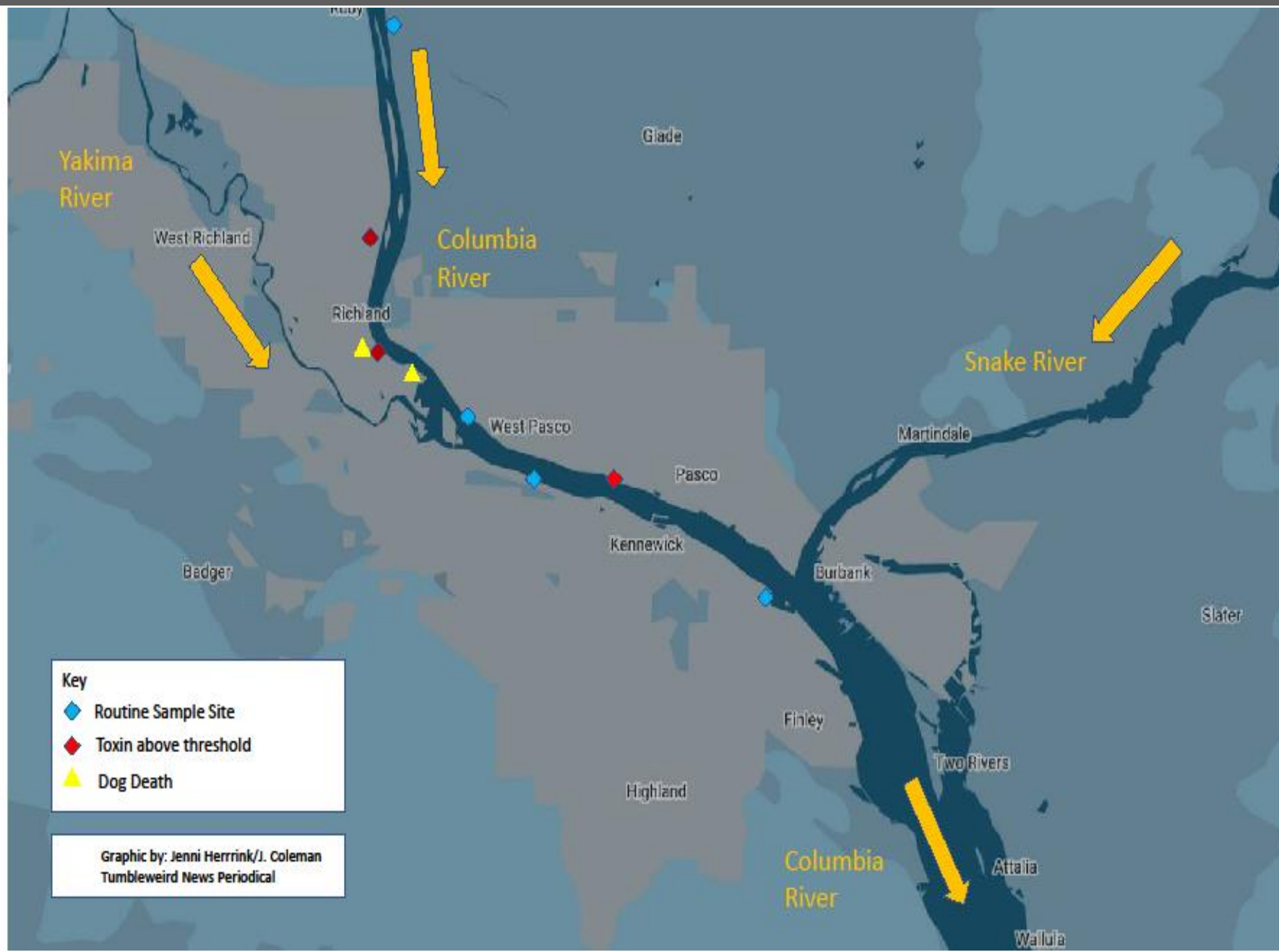
Recreational Water Anatoxin-a (ug/L) by Sample Location

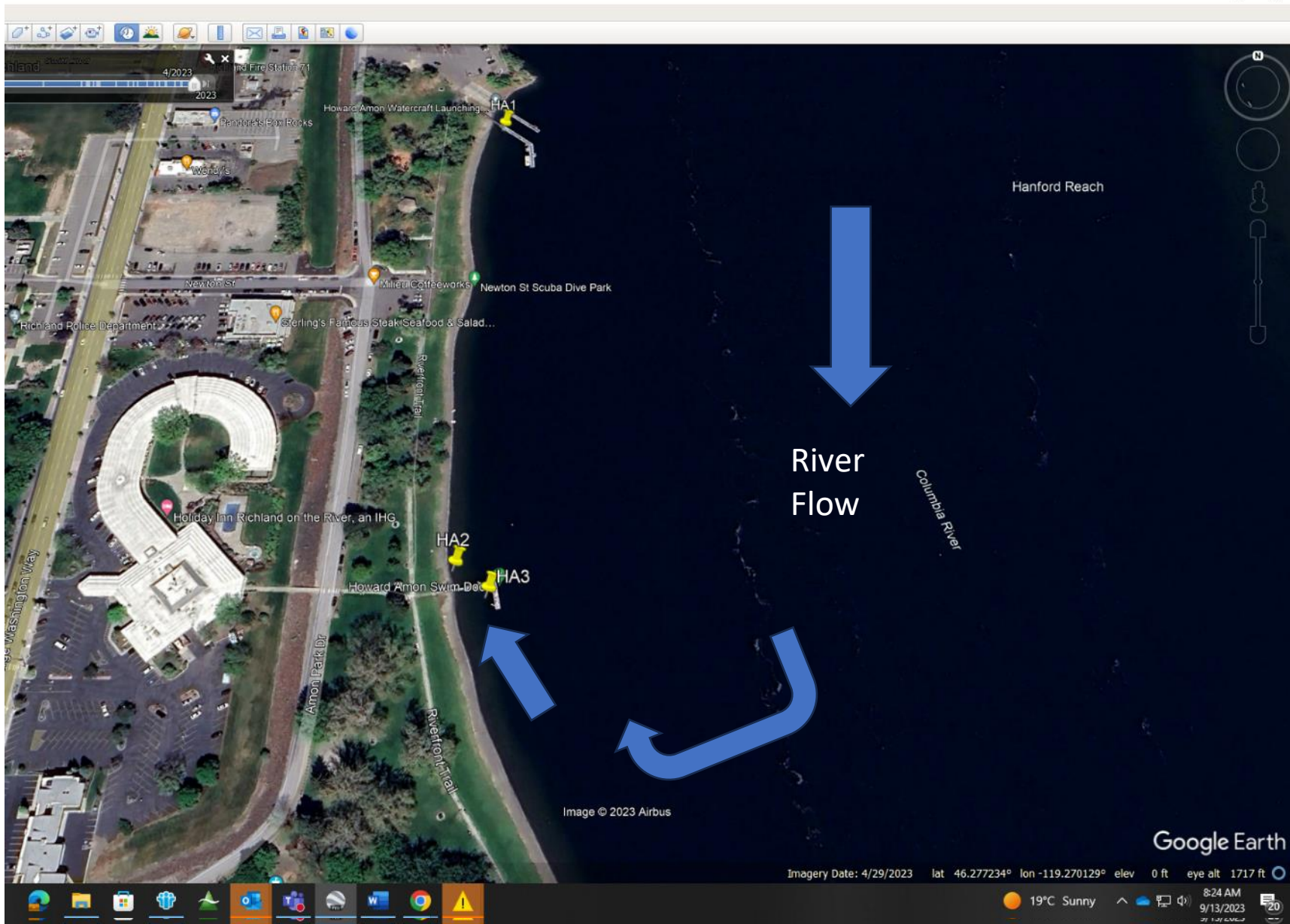


Recreational Water Anatoxin-a (ug/L) by Sample Location, Benton-Franklin 2023

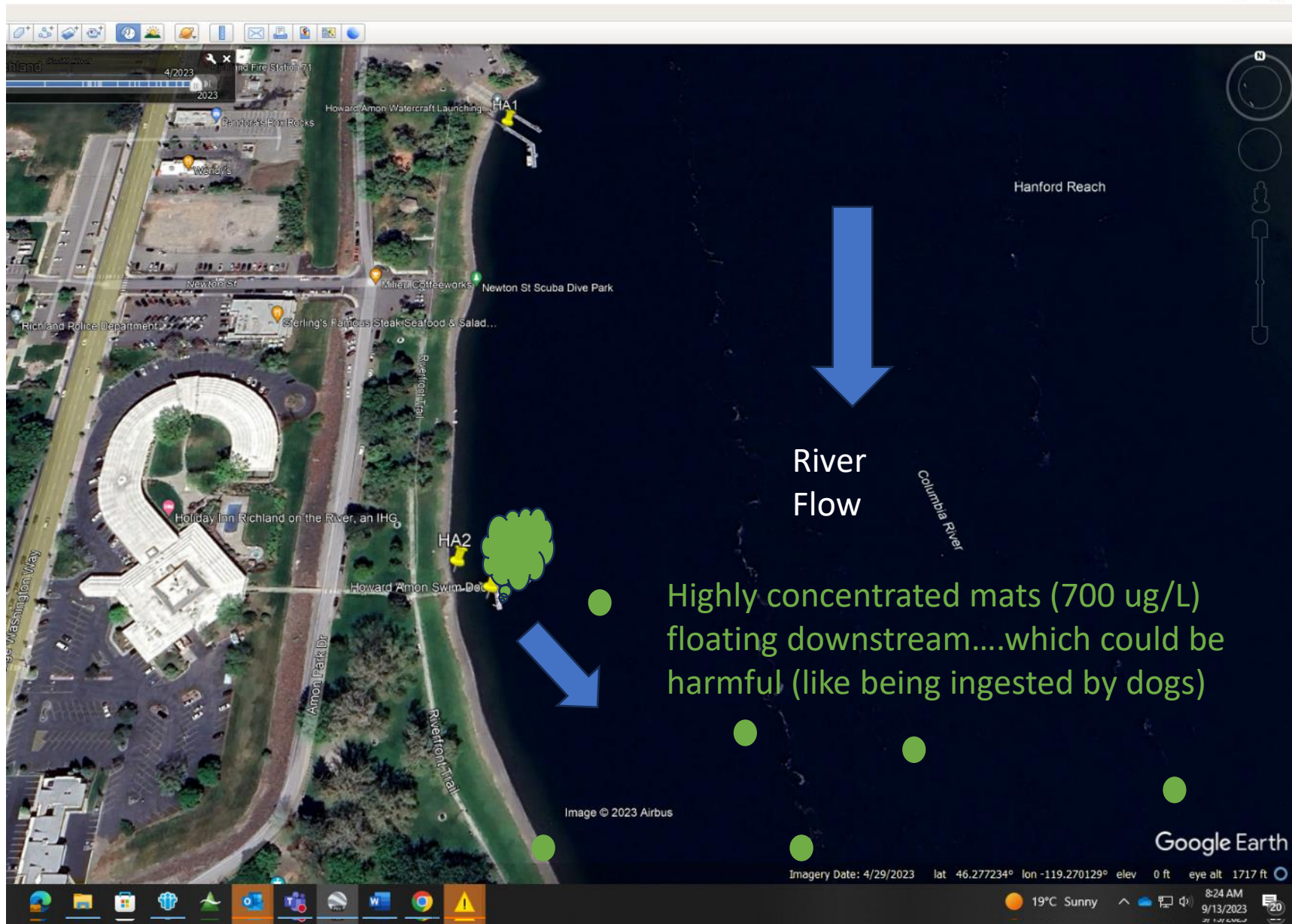


Howard Amon data not included











Morning
9/11/23



Afternoon
9/11/23

Less current, reversing
direction. Mats going
out to main river.





Rocks with algae growing on them-Columbia River



Remediation

- Remove the dock
 - Material might just collect elsewhere?
- Collect material
 - Nets
 - Vactor truck/surface water dredge
 - Seabin



Morning
9/11/23

Trash/Scum Collector

- <https://www.youtube.com/watch?v=GrxYujglCDo>

Events at Howard Amon Park

- Popular Park
- 2024 Ironman Competition scheduled for Sept 22th (peak of cyanobacteria problem). Expecting about ~2000 participants
- Swim along Howard Amon shoreline
- BFHD met with organizers to discuss risks
- COR comments?

2023 Collaboration with EPA and USGS

- EPA and USGS (DOH) conducting research on Columbia River to better understand what is happening and how best to monitor the problem.
- EPA Researchers will analyze cyanobacterial composition, associated toxins, and extent of benthic periphyton and cyanobacteria mat samples.
- Planktonic vs Benthic Cyanobacteria (Suspended vs Sediments)
- USGS-Physical parameters-water temp, turbidity, flows, chlorophyll levels, satellite imagery (??)

EPA Work

- EPA Researchers will analyze cyanobacterial composition, associated toxins, and extent of benthic periphyton and cyanobacteria mat samples.

- Site/Methods

Leslie Grove Park just downstream from water intake

Set out grids and then assess coverage of cyanobacteria on the substrate (mostly cobbles) and take samples







Data

- Samples will be sent in to determine types of cyanobacteria, types and amounts of toxins produced, how much is organic vs inorganic (sediment).
- Research will also help up to determine how best to sample benthics. Right now all samples are surface water samples.



Planktonic vs Benthic
Suspended vs attached to sediments/substrates on bottom



EPA....so far

- Not much...waiting for a lot of the data to come back
- I am more convinced now that this (what is growing on the rocks) is the problem and not some unknown smoking gun.
- We do know some of the key players due to some assistance from EPA and KCEL
- Predominant species of cyanobacteria are: Phormidium Woronichinia, Dolichiospermum, Microcystis and Oscillatoria

USGS Work

- Sensors

- Upstream of Richland

- COR Intake at Synder Boat Launch

- Plan to set up one more near Columbia Park or Cable Bridge Area

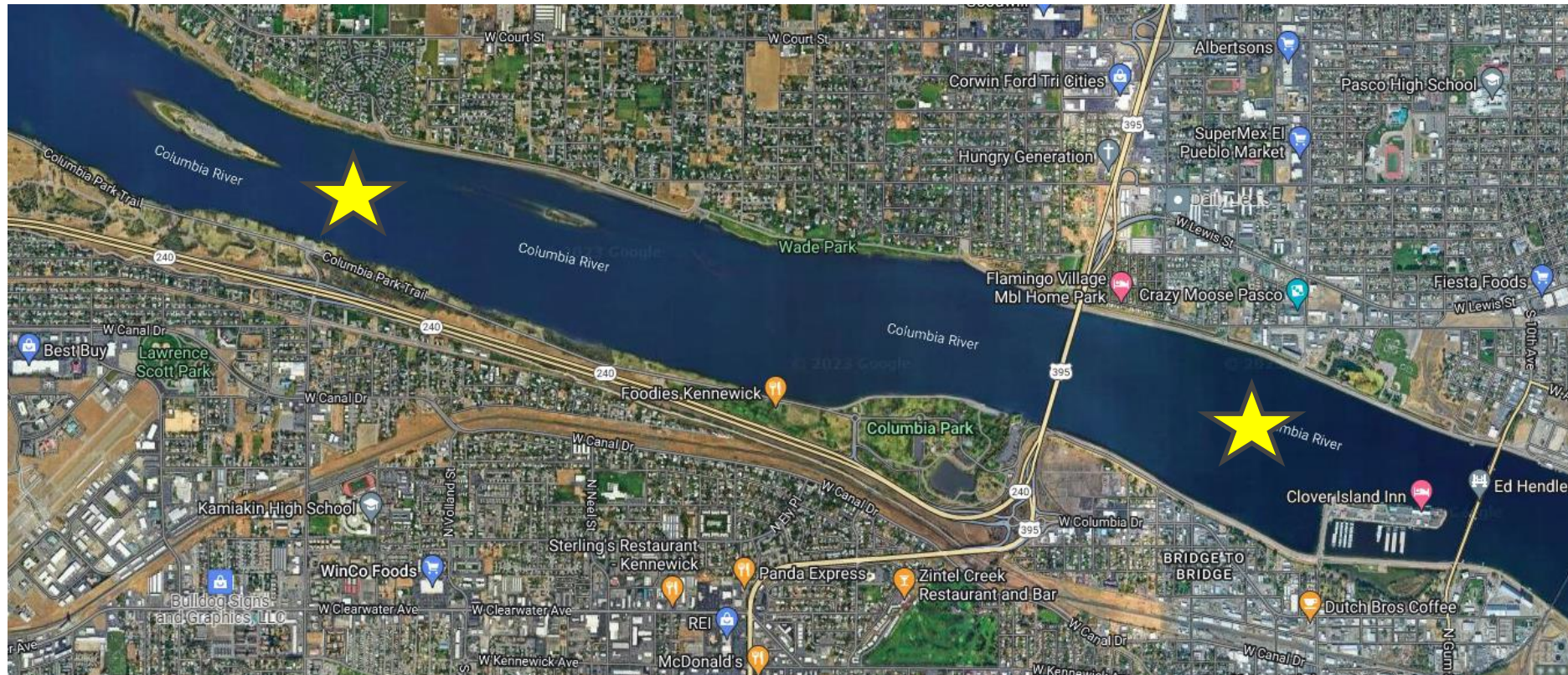
Senors detect physical parameters: Water temp, turbidity, chlorophyll, phycocyanin, dissolved oxygen, pH. Combine with flow rates from dams and toxin data

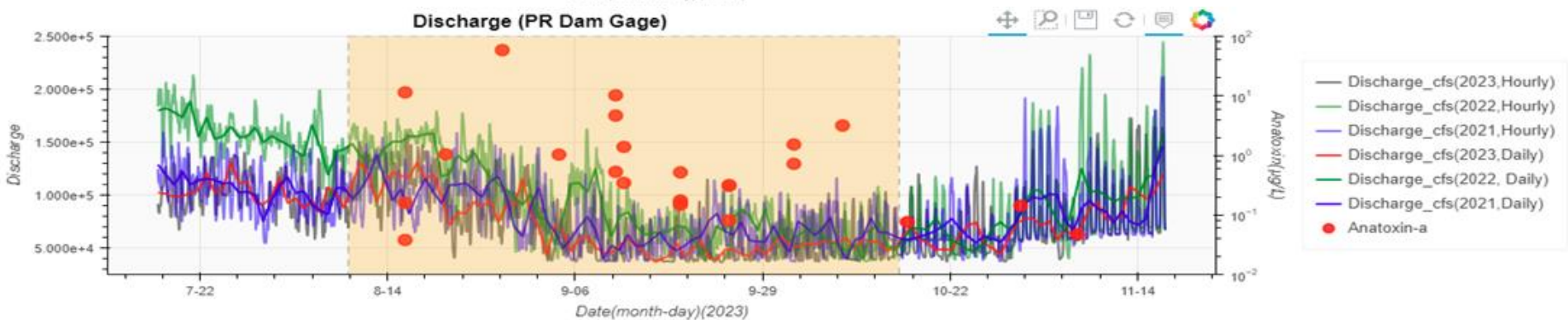
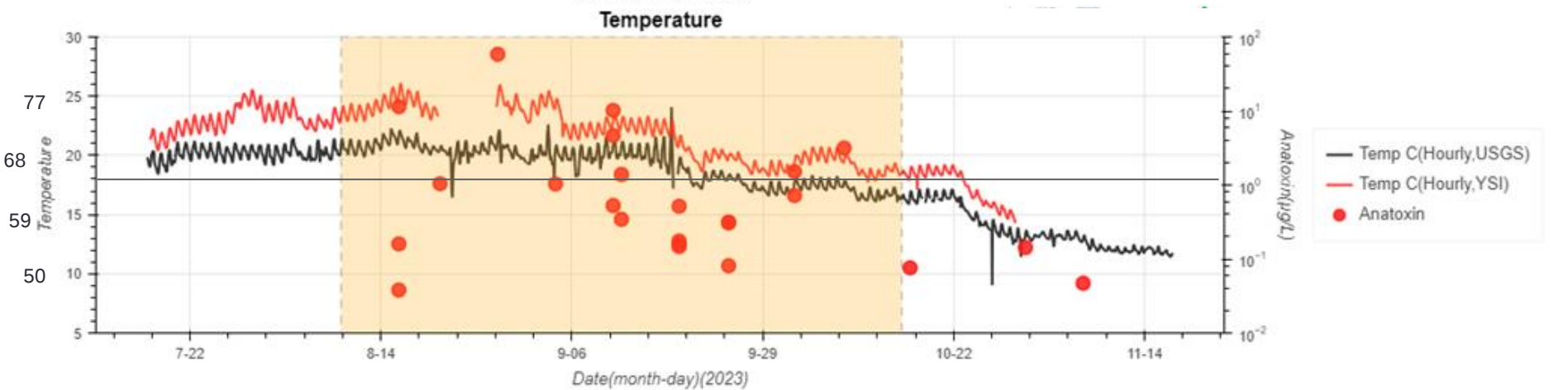
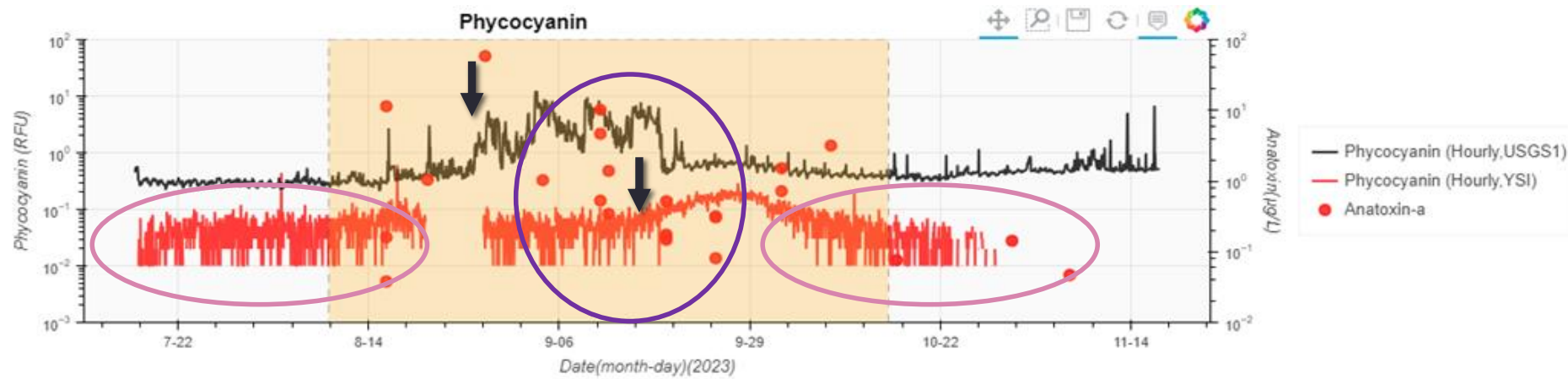






Proposed Sites





Future Work

- BFHD is looking into getting accredited to use ELISA for testing anatoxin-a and microcystin in recreational water.
- This will improve and validate that our technique is accurate AND we could potentially analyze samples for other health dept and property owners.
- BFHD now has a lab supervisor and an additional lab worker which will improve testing and give me more time to work with our collaborators
- Upgrades to HABS on BFHD website including a map showing all BFHD results

Current Toxic Algae Updates on the Columbia River

Update: November 9th

Cooler weather and shorter days are helping to curtail the algae problem in the Columbia River and Scooteney Reservoir. Currently, there are no areas in the Tri-Cities that are above state thresholds for algae toxins. The week of November 13th will be the last routine sampling event of the season and this site will be updated then.



Find your lake

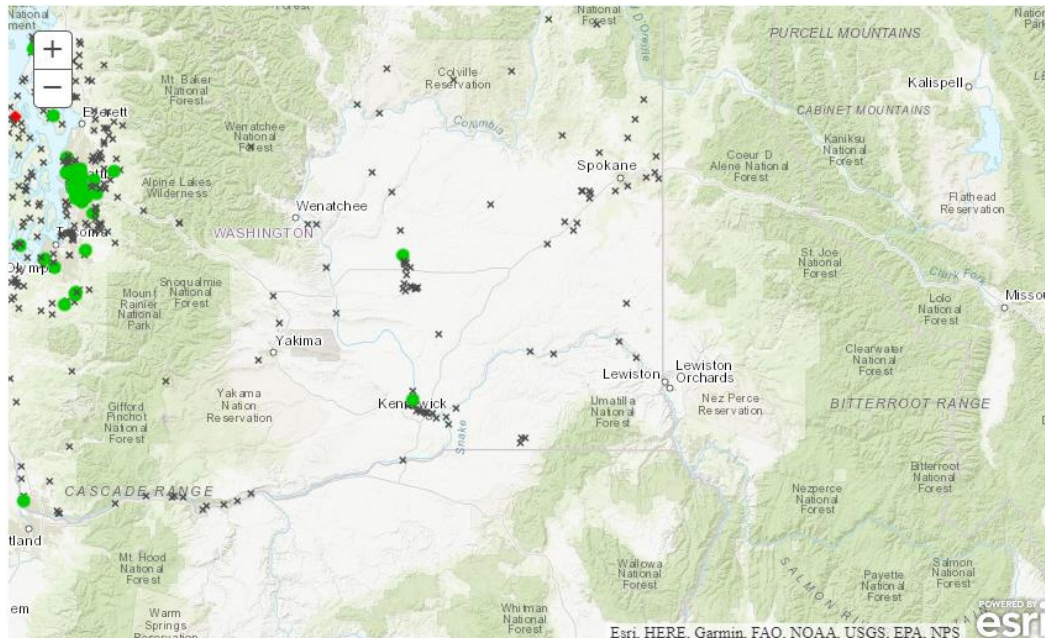
This database contains the most current toxicity data available. All instances of values above the recreational guidelines are kept as up to date as possible, but values below the guidelines may be somewhat delayed in entry. Since there is a lag time from the date of sample to the date of analysis, be sure to check the sample date when looking at data or before you use the lake. Remember to use caution and avoid scums. "When in doubt, stay out!"

Your local jurisdiction may have more specific information about your lake. Questions? Contact [Lizbeth Seebacher](#) at Department of Ecology.

If a lake is not listed, it has not been tested for toxic algae through the Ecology program.

The pins on the map represent the center of small lakes, regardless of where the sample was taken. To find more precise location information, download the toxin data and click the "view scum info" link. That is where specific sampling location information will be if it was provided. On larger lakes, (such as Lake Washington, Moses Lake and Potholes) pins represent the location of the sample if provided.

Map Legend: ♦ Exceeded state recreation guideline ● Within state recreation guideline
 ✕ No data is available for the past 4 weeks.



BFHD epidemiologist has already been working on map specific to B-F counties.

Won't include drinking water samples-just rec samples



THE SPOKESMAN-REVIEW

Spokane, Washington Est. May 19, 1883

[Washington](#) [Idaho](#) [Business](#) [Education](#) [Health](#) [Photos](#) [Further Review](#)



BOOK NOW

NEWS > SCI/TECH

'Unusually large' toxic algal bloom covers 30-mile stretch of the Lower Snake River

Oct. 16, 2023 | Updated Tue., Oct. 17, 2023 at 8:18 p.m.



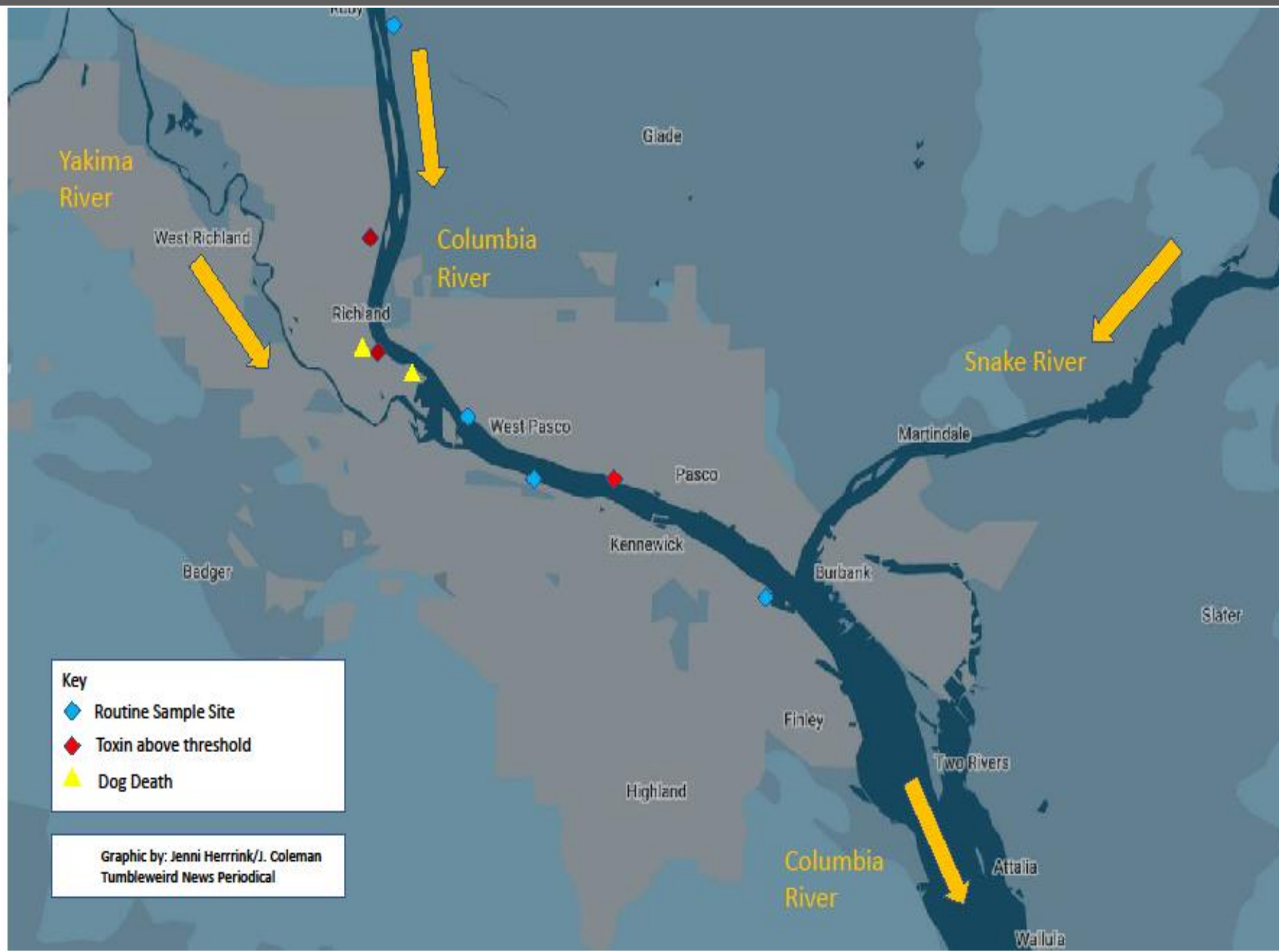
AARP

LIMITED
TIME

43%
off

5 years - \$45 billed
at time of purchase





New Potential Problem

- Planktonic bloom (not benthic)-Aphanizomenon and Microcystis
- Obvious visual cues
- They are typically microcystin producers
- I found remnants of bloom in Columbia just upstream from McNary dam and microcystin levels >10 ug/L
- Won't affect drinking water in Tri-Cities for now unless bloom starts in Columbia upstream of Tri-cities but may affect recreation on Columbia near Plymouth/Paterson



Sample taken at upstream of
McNary Dam



Lyons Ferry State Park

Final Thoughts about Risks



2019 Data Summary

CDC collects data about harmful algal bloom (HAB) events and associated human or animal illnesses in the United States through the One Health Harmful Algal Bloom System (OH HABS).

HAB-Associated Human Illnesses



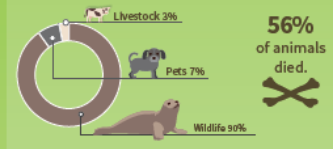
2 out of 5 ill people were under the age of 18.



81% sought medical care. No deaths were reported.

Most (59%) of the HAB-associated human illnesses were classified as suspected cases.

HAB-Associated Animal Illnesses



Most (81%) of the HAB-associated animal illnesses were classified as probable cases.



14 states reported data for 2019

242 Harmful Algal Bloom Events



63 Human Illnesses



367 Animal Illnesses

Harmful Algal Bloom Events



3 out of 4 HAB events were in **fresh water**.



HAB events peaked in **August**.

Most (85%) HAB events were classified as confirmed events.

Environmental Testing



88% of HAB events were tested for toxins, algal species, or both.



Toxins were found in half (**53%**) of HAB events.



Read the full summary: cdc.gov/habs/data/2019-ohhabs-data-summary.html

Final Thoughts about Risks from Toxins in Columbia R

- Drinking water low risk because concentration is low even in high peak months and treatment will reduce even more. Perhaps a chronic affect but might not be able to tell unless finished water was analyzed
- Recreational exposure-ingested water when swimming. Risk low for adults because not much water is ingested AND in general the concentration is low.
- Rec Risk higher for children due to low body weight and even higher for animals (dogs) due to low body weight and ingesting water and material
- Elevated risk for all in areas where algae solids accumulate

Feedback, Comments, Suggestions?

- Parks please post information on websites and at reader board at boat launches and other location.
- Reduce microcystin analysis to peak of season (once a month)?

California Cyanotoxin Guidelines

Action levels for selected scenarios

	Microcystins ¹	Anatoxin-a	Cylindrospermopsin	Media (units)
Human recreational uses ²	0.8	90	4	Water (µg/L)
Human fish consumption	10	5000	70	Fish (ng/g) ww ³
Subchronic water intake, dog ⁴	2	100	10	Water (µg/L)
Subchronic crust and mat intake, dog	0.01	0.3	0.04	Crusts and Mats (mg/kg) dw ⁵
Acute water intake, dog ⁶	100	100	200	Water (µg/L)
Acute crust and mat intake, dog	0.5	0.3	0.5	Crusts and Mats (mg/kg) dw ⁵
Subchronic water intake, cattle ⁷	0.9	40	5	Water (µg/L)
Subchronic crust and mat intake, cattle ⁷	0.1	3	0.4	Crusts and Mats (mg/kg) dw ⁵
Acute water intake, cattle ⁷	50	40	60	Water (µg/L)
Acute crust and mat intake, cattle ⁷	5	3	5	Crusts and Mats (mg/kg) dw ⁵

'Suggested Action Levels and Six Cyanotoxins', CA OEHHA, 2012

<https://oehha.ca.gov/risk-assessment/document/toxicological-summary-and-suggested-action-levels-reduce-potential-adverse>

here to search



Table 1: Anatoxin-a Levels that Surpassed the State Treshold Level (2021-2023) at Recreation Sites on the Columbia River in Benton and Franklin Co.

	Site	Anatoxin-a Conc (ug/L)								
2021										
9/13/2021	Howard Amon Swim Beach	3.59								
9/20/2021	Howard Amon Swim Beach	67.2								
10/19/2021	Leslie Groves Swim Beach	14.4								
11/2/2021	Howard Amon Swim Beach	1.48								
2022										
8/8/2022	Pasco Boat Basin	1.21								
10/10/2022	Lesile Groves Swim Beach	1.42								
10/17/2022	Lesile Groves Swim Beach	5.7								
2023										
8/16/2023	Howard Amon Swim Dock	11.4								
8/21-9/13/23	Howard Amon Swim Dock	1.04-58.5								
9/13/2023	Lesile Groves Swim Beach	1.39								
9/13/2023	Wade Park	4.66								
10/3/2023	Howard Amon Swim Dock	1.52								
10/9/2023	Howard Amon Swim Dock	3.17								
10/23/2023	Howard Amon Swim Dock	1.17								

☐ 7 days ☐ 30 days ☐ 1 year

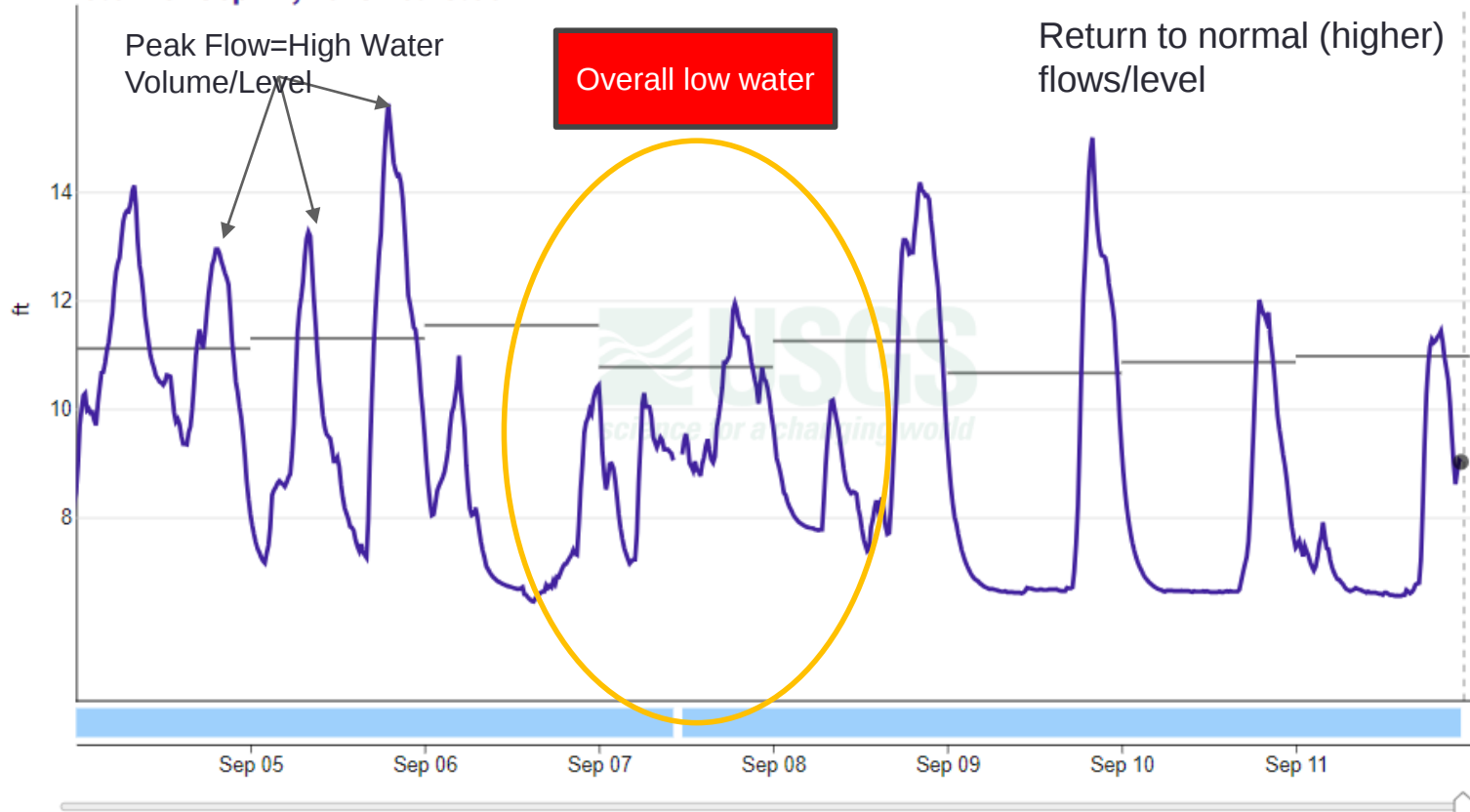
- using custom time span -

Columbia River Below Priest Rapids Dam, WA - 12472800

September 4, 2023 - September 11, 2023

Gage height, feet

9.02 ft - Sep 11, 2023 10:45:00 PM PDT



being eaten time open

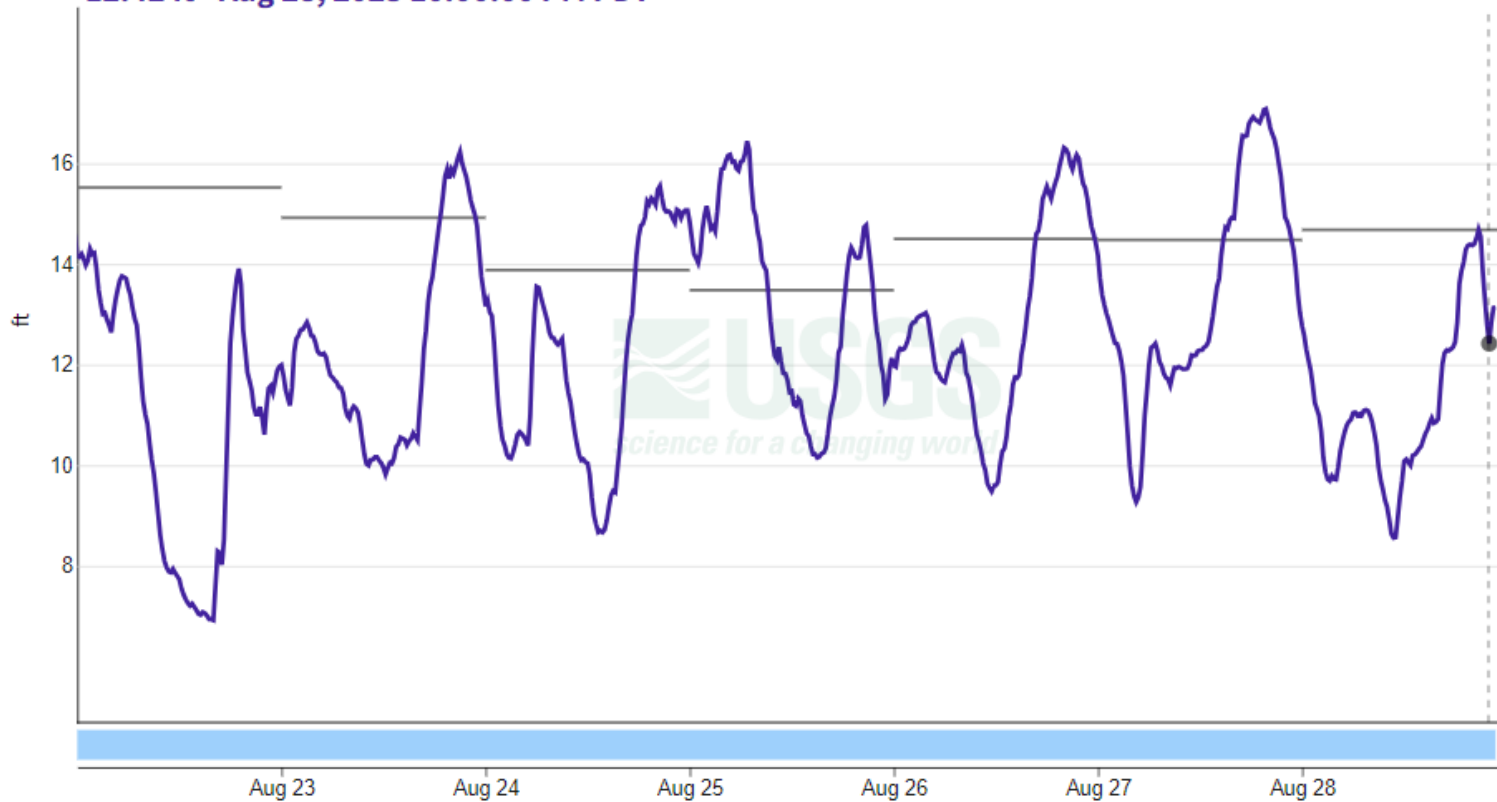
Columbia River Below Priest Rapids Dam, WA

12472800

August 22, 2023 - August 28, 2023

Gage height, feet

12.42 ft - Aug 28, 2023 10:00:00 PM PDT





PARKS AND RECREATION COMMISSION AGENDA ITEM COVERSHEET

Meeting Date: 12/14/2023

Agenda Category: New Business

Prepared By: Joe Schiessl, Deputy City Manager

Subject:

Tapteal Greenway Trail in the Vicinities of Barker Ranch and Horn Rapids

Department:

Deputy City Manager

Recommended Motion:

Discussion only.

Summary:

The regional Rivers to Ridges plan envisions an interconnected off-road (primarily) trail network linking Red Mountain to the Yakima River Delta. Various segments of the trail are complete in Richland, while others are in different stages of development. Tonight's discussion will focus on the Tapteal Trail segment along the Yakima River between the northern City Limit south to Alexander Farms fronting along Barker Ranch and Horn Rapids.

Fiscal Impact:

None at this time.

Attachments: