

What are harmful algal blooms?

Overgrowths of cyanobacteria in water

- Not plants!
- Naturally occurring in all waterbodies
- Can produce toxins that can cause acute and chronic health effects in people and animals (World Health Organization, 2021)







Harmful Algal Bloom Exposure Pathways

- Most exposures occur while swimming or other recreational activities on the water:
 - Oral Exposure: Accidental or deliberate ingestion of contaminated water.
 - Symptoms: Nausea, vomiting, diarrhea, headache, tingling/numbness, paralysis, or liver damage.
 - **Skin Exposure:** Direct contact of exposed body parts to water containing cyanobacteria cells and their toxins.
 - Symptoms: Rash, blisters, or conjunctivitis.
 - Inhalation Exposure: Aspiration of water containing cyanobacteria cells and their toxins
 - Symptoms: Sore throat, asthma like symptoms, pneumonia, or hay fever.











Clark County Data

Public had questions about our monitoring:

- How often do we visit a lake?
- How many advisories/weeks are issued?
- How many samples are above recreational guidance?
- Where is information for my lake?

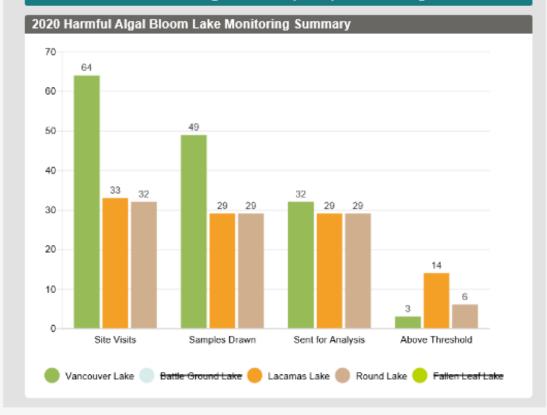
2020 Swim Beach Monitoring Dash : smartsheet

Want to compare results between lakes?

Click on the water body name at the bottom to remove those results from the chart. It will appear crossed out, to add back to chart, click again.

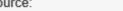
Monitoring Summary		
Site Visit	28	
Above Threshold	3	
Warning Advisories	0	
Closure Advisories	1	

Harmful Algal Bloom (HAB) Monitoring





Web Viewer Terms | Privacy & Cookies



https://app.amartahoat.com/b/publish?



2021 Advisory Changes

- Year-round educational signs
 - Replacing CAUTION advisory signs
- Added multiple languages
 - Three most spoken languages in Clark County
- After CCPH & other LHJ's proposed removing CAUTION advisory, Washington State Department of Health are now proposing a similar change statewide







WARNING

TOXINS FROM ALGAE IN THIS WATER CAN HARM PEOPLE AND KILL ANIMALS

No swimming. Stay away from scum, and cloudy or discolored water.

Do not let pets or other animals drink the water, or go near the scum.

Do not boat or kayak in areas of scum or algae.

Do not drink this water or use it for cooking.

Avoid fishing in areas of scum. Throw away guts and clean fillets.

ADVERTENCIA

LAS TOXINAS DE LAS ALGAS EN ESTA AGUA PUEDEN
DAÑAR A LAS PERSONAS Y MATAR A LOS ANIMALES

Prohibido nadar. Mantengase alejado de la espuma lamosa, y agua turbia o descolorida.

No permita que las mascotas y otros animales tomen agua, ni estén cerca de la espuma.

No pasee en lancha o en kayak en áreas con algas o espuma.

No beba esta agua ni la use para cocinar.

Evite pescar en áreas con espuma. Tire las tripas y limpie los filetes.

ПРЕДУПРЕЖДЕНИЕ

Токсичное воздействие водорослей в воде может привести к ухудшению состояния здоровья людей и смерти животных

Купаться запрещено. Избегайте мест с водорослями.

Не разрешайте домашним и другим животным пить воду или приближаться к местам скопления тины.

Воздержитесь от катаниях на лодках или байдарках в местах скопления тины и водорослей.

Не пейте эту во приготовления

Не ловите рыбу тины. Выбрасы промывайте фи













Call your doctor or veterinarian if you or your animals have sudden or unexplained sickness or signs of poisoning.

Llame a su médico o veterinario si usted o susanimales presentan una enfermedad repentina o sin causa aparente o señales de envenenamiento.

Позвоните сво если у Вас или возникла внез болезнь или п

For more information Para mas información Для получения дополнительной инфорсiark.wa.gov/public-health/public-beaches • 564.397.8428

DANGER

TOXINS FROM ALGAE IN THIS WATER CAN HARM PEOPLE AND KILL ANIMALS

Stay out of the water until further notice. Do not touch scum in the water or on shore.

Do not let pets or other animals drink the water, or go near the scum.

Do not eat fish from this lake.

Do not use this water for drinking or cooking. Boiling or filtering will not make the water safe.

PELIGRO

LAS TOXINAS DE LAS ALGAS EN ESTA AGUA PUEDEN DAÑAR A LAS PERSONAS Y MATAR A LOS ANIMALES

Manténganse fuera del agua hasta nuevo aviso. No toque la espuma lamosa en el agua o en la orilla.

No permita que las mascotas y otros animales beban el agua ni estén cerca de la espuma.

No coma pescado de este lago.

No use esta agua para beber o cocinar. Hervir o filtrar el agua no hace que sea segura.

ОПАСНО

Токсичное воздействие водорослей в воде может привести к ухудшению состояния здоровья людей и смерти животных

Держаться подальше от озера до дальнейшего уведомления. Избегайте мест с водорослями.

Не разрешайте домашним и другим животным пить воду или приближаться к местам скопления тины.

Не употребляйте в пищу рыбу, пойманную в этом озере.

Не пейте эту воду и не используйте ее для приготовления пищи. Кипячение и фильтрация не обеззараживают эту воду.







Call your doctor or veterinarian if you or your animals have sudden or unexplained sickness or signs of poisoning. Llame a su médico o veterinario si usted o susanimales presentan una enfermedad repentina o sin causa aparente o señales de envenenamiento. Позвоните своему врачу или ветеринару, если у Вас или у Вашего домашнего питомца возникла внезапная или беспричинная болезнь или признаки отравления.



For more information Para mas información Для получения дополнительной информации: clark.wa.gov/public-health/public-beaches • 564.397.8428



Community Involvement

Sign-up for our email newsletter!

 Weekly updates for lake users, medical professionals, and pet owners

Engaged stakeholder groups with:

- Vancouver Lake/Lake River
- Lacamas Lake/watershed

We still need YOUR help!

- Green Neighbors Public Health
- Green Business Public Health
- Stream Stewards Clark Public Utilities
- Clean Water Program –Public Works
- City of Camas Public Works









Thank you!

Comments and questions

Clark County Public Health

1601 E. Fourth Plain Blvd • PO Box 9825

Vancouver, WA 98666-5000

