

Aquifer Water Quality Standards (AWQS) Rulemaking Update

Stakeholder Meeting

Groundwater Protection Section
Water Quality Division
April 29, 2024



Clean Air, Safe Water,
Healthy Land for Everyone



Introductions



Randy Matas
Deputy Director
Water Quality Division



Len Drago
Tribal Liaison & Ombudsman
Office of Intergovernmental &
Community Affairs

AWQS Team Members



Rhona Mallea
Project Manager
Water Quality
Division

Ethan Leiter
Manager,
Individual
Permits Unit
Water Quality
Division

Dan Reeder
Principal
Hydrogeologist
Water Quality
Division

Jon Rezabek
Legal
Specialist/
Rule Writer
Water Quality
Division

Webinar Orientation

Muted

**Not
Recording**

Questions?

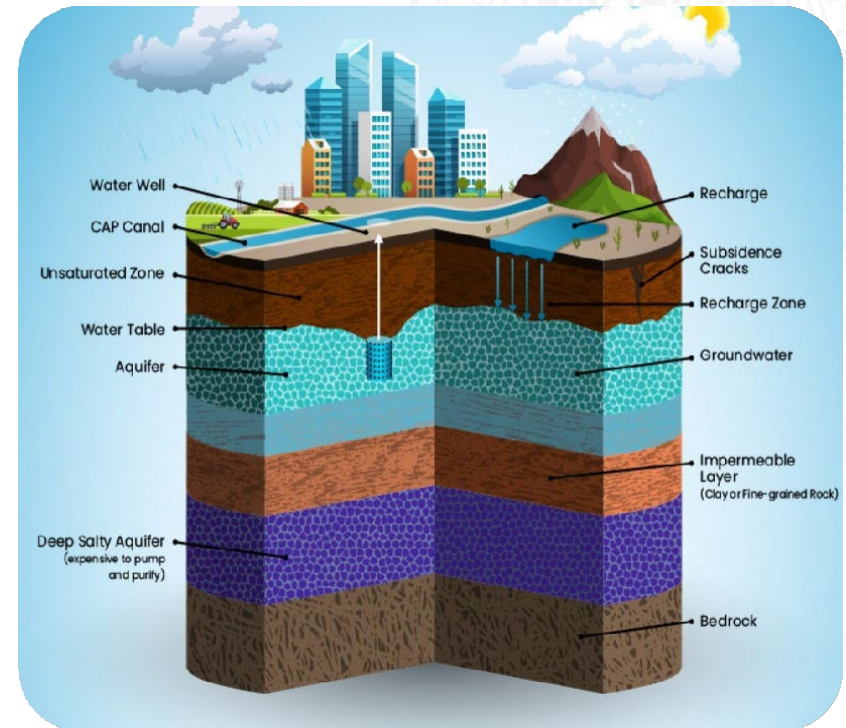
Answers

The screenshot displays a GoToWebinar control panel. At the top, there is a menu with 'File', 'View', and 'Help'. Below this is a 'Audio' section with a 'Sound Check' indicator. Two radio buttons are present: 'Computer audio' (selected) and 'Phone call'. A red 'MUTED' status is shown next to a microphone icon. Below this, a dropdown menu shows 'Microphone (HD Webcam CS10)'. A volume slider is visible, followed by another dropdown menu for 'Speakers (High Definition Aud...)'. Below the audio settings is a 'Questions' section with a text input field containing the placeholder '[Enter a question for staff]' and a 'Send' button. At the bottom, it says 'Multi sessions different registrants' and 'Webinar ID: 980-960-603'. The GoToWebinar logo is at the very bottom.



- Aquifer Water Quality Standards (AWQS) Project Background
- AWQS Draft Rule
- AWQS Draft Implementation Plan
- Baseline Monitoring Implementation Timeline
- New PFAS MCL
- AWQS Critical Path Timeline
- Online Resources
- Respond to Questions

- What are AWQs?
 - maximum contaminant levels, established for aquifers in the state of Arizona for the protection of drinking water usage and public health.
- How are AWQs used?
 - Aquifer Protection Program
 - Remediation Programs
 - WQARF
 - VRP
 - Underground Storage Tanks



- **Protect Public Health**
 - All AZ aquifers protected for drinking water use
 - Groundwater used as a drinking water source by municipalities and private well owners
- **Legal Requirement**
 - A.R.S. § 49-223(A)



What Standards Need to be Updated?

Pollutant	AWQS	MCL
Arsenic	0.05 mg/L	0.01 mg/L
Bromate	None	0.01 mg/L
Chlorite	None	1 mg/L
Haloacetic Acids	None	0.06 mg/L
Microbiological Contaminants	A.A.C. R18-11- 406(F)	40 CFR 141.63(C)
Total Trihalomethanes	0.1 mg/L	0.08 mg/L
Uranium	None	30 µg/L

WHAT
ARE
THE
RULES?

DRAFT

RULE

Implementation Timeline



2024

2025

2026

2027

2028

2029

•Quarter 4:

- Rule Becomes Effective
- Baseline Monitoring is Initiated

**•Phase 1:
Initiate**

Amendments:

- Facilities with existing As and U data

•Quarters 1 through 4:

- Ongoing Baseline Monitoring

•Quarters 1 through 4:

- Ongoing Baseline Monitoring

•Quarters 1 through 4:

- Phase 2:
Amendments:**
- High-risk facilities that have completed baseline monitoring

•Quarters 1 through 4:

- Phase 3:
Amendments:**
- Medium Risk facilities that have completed baseline monitoring

•Quarters 1 through 4:

- Phase 4:
Amendments:**
- Low Risk facilities that have completed baseline monitoring

- On April 10th, 2024, EPA Finalized New Standards for six PFAS
- A.R.S. § 49-223(A)
 - Open Rulemaking Docket w/n 1 Year - 4/10/25

Compound	Final MCLG	Final MCL (enforceable levels)
PFOA	Zero	4.0 parts per trillion (ppt) (also expressed as ng/L)
PFOS	Zero	4.0 ppt
PFHxS	10 ppt	10 ppt
PFNA	10 ppt	10 ppt
HFPO-DA (commonly known as GenX Chemicals)	10 ppt	10 ppt
Mixtures containing two or more of PFHxS, PFNA, HFPO-DA, and PFBS	1 (unitless) Hazard Index	1 (unitless) Hazard Index

PFAS Polling Questions



Join by Web PollEv.com/adeqpoll328 Join by Text Send **adeqpoll328** to **22333**



PollEv.com/adeqpoll328

-OR-

Send **adeqpoll328** to **22333**

-OR-

Use QR Code in the upper right hand corner

- **When using the Website or QR Code option, you will be prompted to the next question**
- **All questions are anonymous, no names will be tracked**

While conducting baseline monitoring for the Arsenic, Uranium, Microbiological Contaminants and Disinfection By-Products would it be more efficient for you to test for PFAS at active monitoring locations for discharge and groundwater at the same time?

(A) No



(B) Neutral

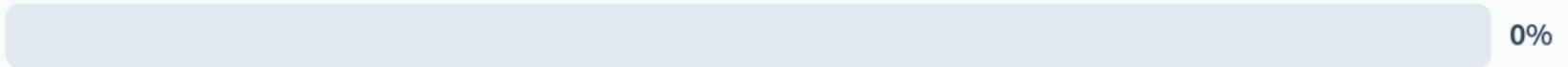


(C) Yes



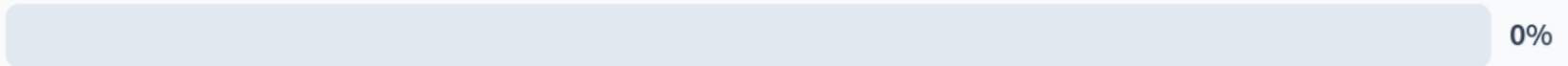
Does your facility currently monitor PFAS constituents entering a wastewater treatment plant as influent?

No



0%

Yes



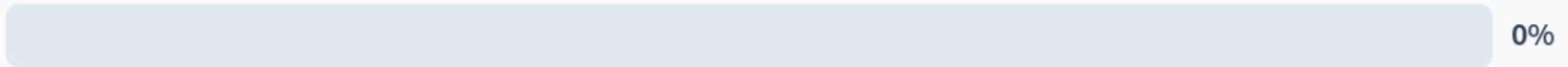
0%



Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app

Does your facility currently monitor PFAS constituents in the discharged effluent after wastewater treatment OR discharge from mining/industrial?

No



0%

Yes



0%



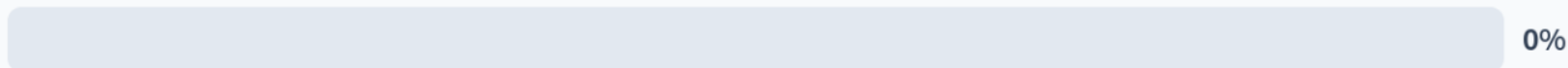
Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app

Does your facility currently monitor PFAS constituents in groundwater?

No



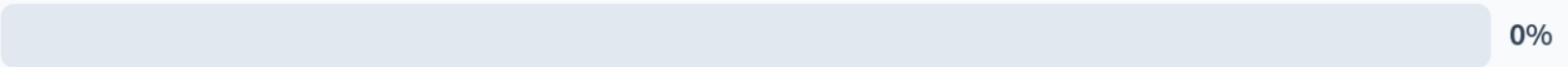
Yes



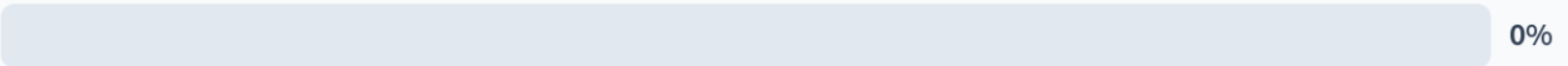
Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app

Are you currently developing or considering an implementation strategy for addressing PFAS regulation as an Aquifer Water Quality Standard (AWQS)?

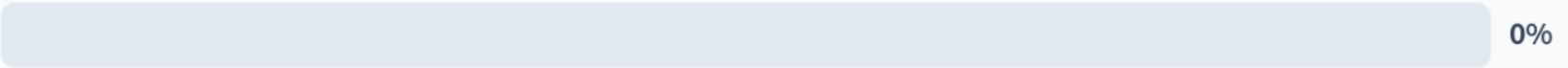
No



Yes

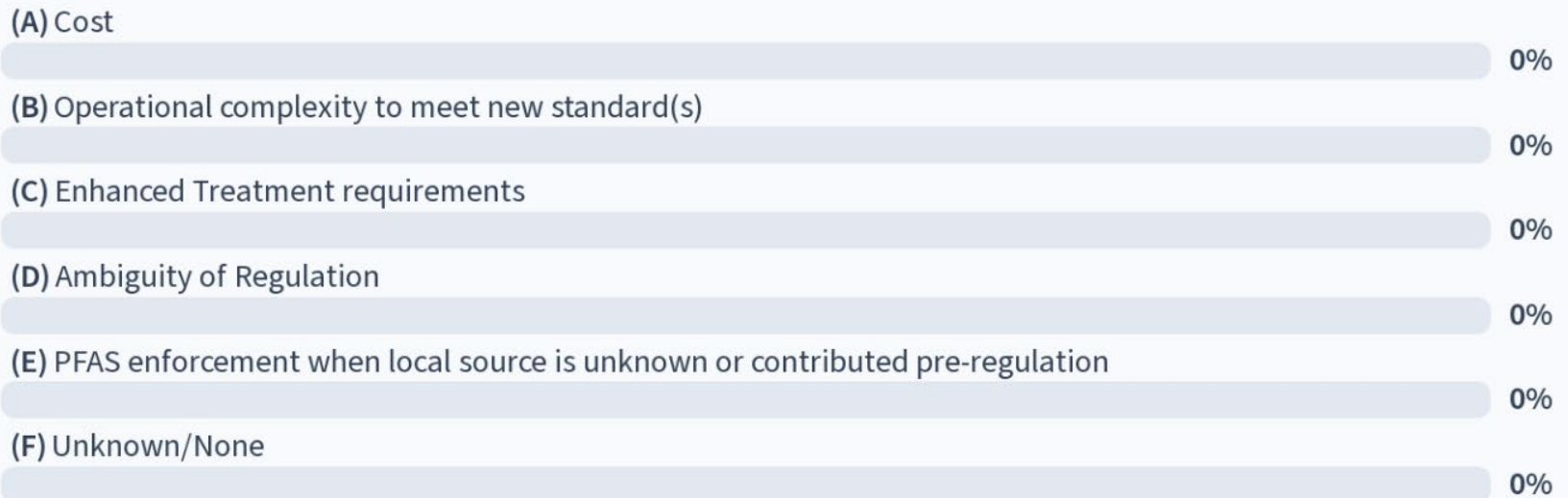


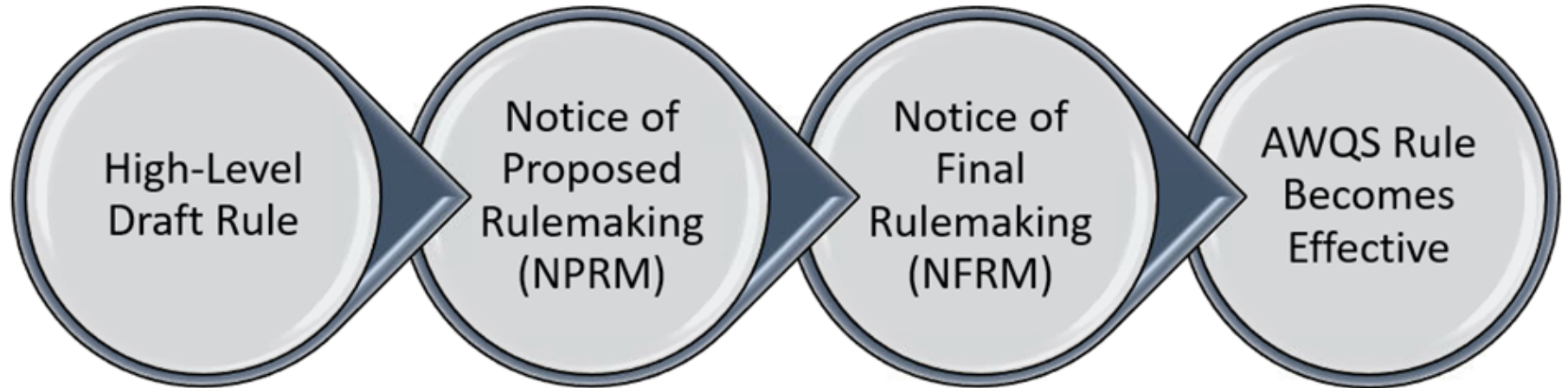
Plan to in the future



Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app

What are your concerns about a PFAS AWQS? (top 2, by significance)





- Draft rule components, Implementation Plan & Permit Schedule
- Informal Stakeholder Meeting
- **April, 2024**

- Public Hearing and a 30 - Day Comment Period
- **May/June, 2024**

- File NFRM with SoS
- **June/July, 2024**

- Rule becomes effective approximately **October, 2024**

- **Rulemaking Webpage**

- <https://www.azdeq.gov/awqs-update-active-rulemaking>

- **Rulemaking Fact Sheet**

- <https://static.azdeq.gov/wqd/rulemaking/awqs/fs.pdf>

- **Rulemaking Resources**

- <https://old.azdeq.gov/node/9545>

- **Rulemaking Notice of Docket Opening**

- 29 A.A.R. 1478
- https://apps.azsos.gov/public_services/register/2023/26/contents.pdf#page=56

- This presentation will be posted on the ADEQ webpage at:
<https://www.azdeq.gov/rulemaking/awqs-update/resources>

Draft Rule and Draft Implementation Plan final review date: May 20, 2024

- Please send your comments to: awqs@azdeq.gov
- <https://www.azdeq.gov/awqs-update-active-rulemaking>

Aquifer Water Quality Email: awqs@azdeq.gov

Contacts:

- Randall Matas, WQD Deputy Director
matas.randall@azdeq.gov
(602) 615-2306
- Rhona Mallea, AWQS Project Manager
mallea.rhona@azdeq.gov
(602) 771-4492
- Jon Rezabek, AWQS Rule Writer
rezabek.jon@azdeq.gov
(602) 771-8219

Questions?



Clean Air, Safe Water,
Healthy Land for Everyone
