Aquifer Water Quality Standards (AWQS) Rulemaking Update

Stakeholder Meeting

Groundwater Protection Section Water Quality Division December 13, 2023



Clean Air, Safe Water, Healthy Land for Everyone



## Introductions







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## **AWQS Team Members**





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## Agenda





- What are Aquifer Water Quality Standards?
- Purpose of the Rulemaking
- AWQS Implementation Approach
- AWQS Rulemaking Timeline
- Online Resources
- Open Discussion

## Aquifer Water Quality Standards

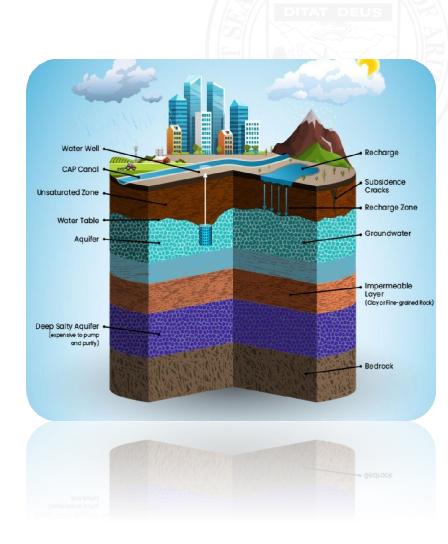


## • What are AWQSs?

 maximum contaminant levels, established for aquifers in the state of Arizona for the protection of drinking water usage and public health.

### How are AWQSs used?

- Aquifer Protection Program
- Remediation Programs
  - WQARF
  - VRP
- Underground Storage Tanks



## Why is ADEQ Doing This Now?



#### 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)
- Auditor General Finding



# What Standards Need to be Updated?



Pollutant	AWQS	MCL DITAT DE
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

#### Evaluating an Approach towards AWQS Implementation



**Issue** - the current Statutes and Rules lack clarity on how the Agency will implement new standards, when they take effect and who they apply to. Rules allow for permits to be amended in two ways (A.A.C. R18-9-A211(A));

- Director's initiative OR
- 2) Applicant initiative

Regardless of who initiates the amendment to incorporate new standards, ADEQ finds Rules to be insufficient in outlining clear expectations for it's permittees to comply with when standards change.

#### Evaluating an Approach towards AWQS Implementation



**Proposal** - New Rule defines what permittees can expect for implementation of the AWQSs, including:

#### 1) Requirements for existing permits

- a) Mandatory monitoring upon standards' effective date
- b) Sampling frequency, duration, and reporting frequency
- c) APP amendment schedule under the Director's Initiative
- d) Post monitoring period, demonstrated ability to comply with new or adjusted AWQS based on site specific demonstration(s)
- e) Incorporation of new or adjusted permit limits occurs upon permit amendment
- f) Compliance with new AWQS or adjusted AQL's no later than 4 years after the effective date.

#### 2) Requirements for new permits

- a) Monitoring of new standards either;
  - i) upon issuance of a new permit, or
  - ii) in accordance with other permit conditions, as applicable

## **AWQS Implementation Approach**



Requirements of an existing or new permittee will vary based on whether a facility has required groundwater monitoring, discharge monitoring or both.

- 1) Short-term, initiate baseline sampling and monitoring frequency for the 7 new AWQS upon the effective date via rule requirements.
- Long-term, amend sampling requirements through permit requirements, compliance schedule items and based on baseline sampling results.



## AWQS Implementation Approach cont...



ADEQ plans to implement the newly established AWQSs, or adjusted AQL's or DL's as applicable, into Aquifer Protection Permits (APPs).

Two primary industries will be involved in the implementation of the new AWQS:

#### Mining

Long-term and in most instances, the Department expects that only 2 of the 7 new
 AWQSs will be applicable to Mining Operations; Arsenic and Uranium.

#### Wastewater Treatment Facility (WWTF)

 Long-term and in most instances, the Department expects that all 7 of the new AWQSs will be applicable to WWTF operations.

Regardless of industry type, ADEQ will consider historical discharge data, historical groundwater data, site conditions and geogenic vs. anthropogenic source(s) to inform the establishment of Discharge Limits (DLs) or Aquifer Quality Limits (AQLs) at or above the new AWQSs.

### AWQS Rulemaking Critical Path



High-Level Rule Components Notice of Proposed Rulemaking (NPRM) Notice of Final Rulemaking (NFRM)

Rule Becomes Effective

- Draft informal high-level rule components
- Stakeholder & Tribal Listening Session on AWQS Implementation Approach
- Voice of the Customer
- December, 2023/
- January, 2024

- Draft the Notice of Proposed Rulemaking (NPRM)
- 30-Day Comment Period on Draft NPRM Components (Preamble)
- Conduct Stakeholder and Tribal Listening Session
- Finalize NPRM
- File NPRM with SoS
- January/February, 2024

- Public comment period
- Public Hearing
- Draft Notice of Final Rulemaking (NFRM)
- Finalize NFRM
- Submit to the Governors Regulatory Review Council (GRRC)
- •File NFRM with SoS
- •March/April, 2024

- Secretary of State Publishes NFRM
- •May/June, 2024
- Rule becomes effective approximately
- September 1, 2024

## AWQS Rulemaking Online Resources



#### 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

### Next Steps



This presentation will be posted on the ADEQ webpage at:

https://www.azdeq.gov/rulemaking/awqs-update/resources

Two week comment period.

Please send your comments to: <a href="mailto:awqs@azdeq.gov">awqs@azdeq.gov</a>

 Once comments are reviewed, the final AWQS Implementation Approach will be posted on the ADEQ webpage, and you will be notified:

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

Aquifer Water Quality Email: <a href="mailto:awqs@azdeq.gov">awqs@azdeq.gov</a>

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## **Open Discussion**

