

An Overview of the Arsenic Rule

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December 1, 2004

Agenda

- **General Overview**
- **Timelines**
- **Compliance**
 - o **Options**
 - o Monitoring
 - o Violation Determination
 - o Weighted Averaging
- **Exemptions**



General Overview

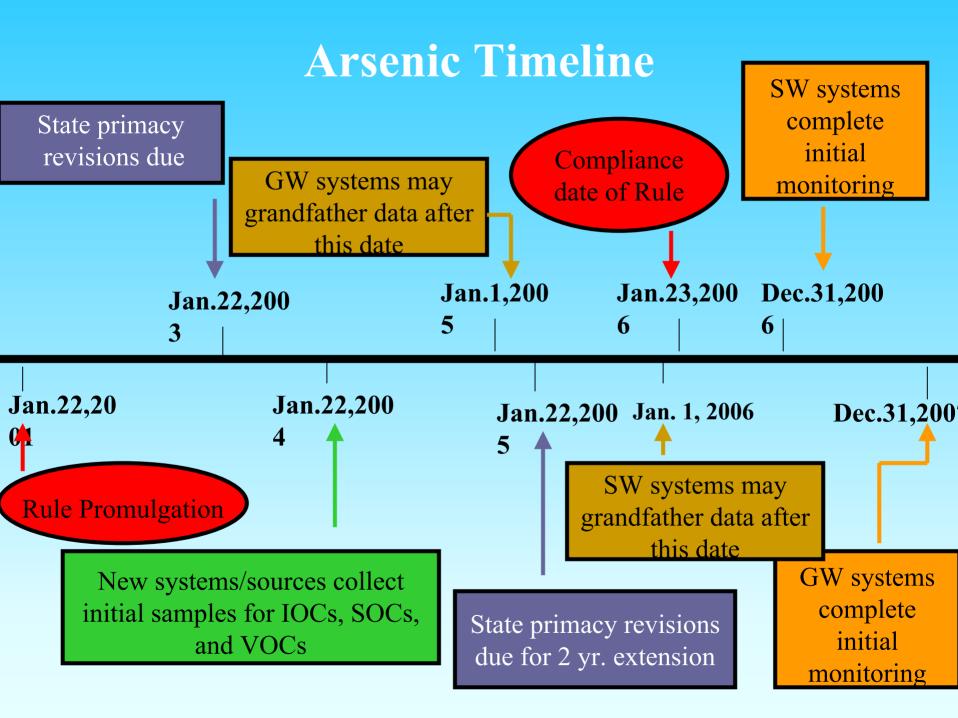
FR Notice: January 22, 2001 Compliance Date: January 23, 2006

- > Sets a revised MCL for arsenic >
 - at: 10 ppb (0.010 mg/L)
- > Sets a <u>new MCLG</u> for arsenic
 - at: zero



- Clarifies monitoring requirements
 - * New Systems/Sources
 - * Clarifies compliance w/ MCLs for IOCs, SOCs, and VOCs
- > Applies to all CWSs and NTNCWS

Groundwater and Surface water Sources



CCR Timeline

10-50 ppb Include Health Effects Language²

> 10 ppb Include Health Effects Statement

Jan. 1, 2006

5-10 ppb Include Educational Statement ¹

¹ 40 CFR 141.154(b)(1)

² 40 CFR 141.154(f) and 141.153(d)(6)



Compliance Options

- Develop a new source
- Blending before entry points
- > Install treatment
- > POU
- > Exemption Potential



Monitoring

STANDARDIZED MONITORING FRAMEWORK

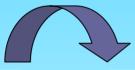
IOCs			Second Cycle									Third Cycle								
	IUUs		1#Period		2 nd Period		3 rd Period		1*Period			2 nd Period			3 rd Period					
Inorganic Contaminants (IOCs)		2002	2003	2004	2002	20006	2007	2008	2009	2010	2011	2012	2013	2014	2016	2016	2017	2018	2019	
	Groundwater (Below MCL)																			
	Walver ²		'					r												
	No Walver		1			•			ı					T			F			
	Surface Water (Below MCL)																			
	Walver ²	*								•										
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	Groundwater and Surface Water (Above MCL) ³																			
	Reliably and Consistently MCL for Groundwater Systems	1									T			ı						
	Reliably and Consistently < MCL for Surface Water Systems	ı	1	*	1	•	,	r				•	•	1			•	ı	1	
	> MCL or Not Reliably and Consistently < MCL	****	****	11111	****	mm	*****	*****	****	****		*****		****	m	****	****	****	****	

Violation Determination

- Systems triggered into increased monitoring are not in violation until they have completed one year of quarterly sampling
- Any sample result that causes the RAA to exceed the MCL will be out of compliance immediately
- If a system does not collect all required samples, compliance will be based on the running annual average of the samples collected.

Weighted Averaging Option What Is It?

An alternative way of monitoring that could allow a system to be in compliance with higher As levels



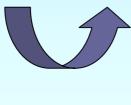




As conc. averaged according to flow or time



> MCL Seasonal source



< MCL Primary source

Weighted Averaging Limited Applicability

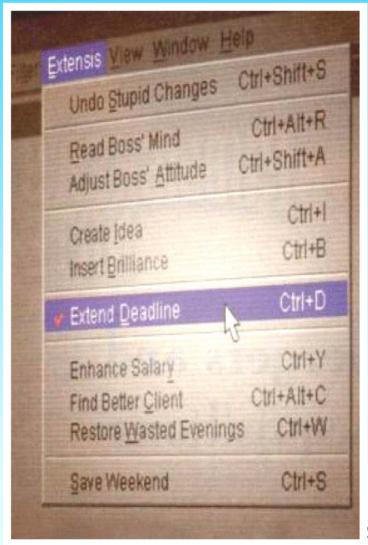
- Look at representativeness of normal operating conditions. The primacy agency may require additional sampling to account for changes in source use
- The system needs to demonstrate that it can accurately calculate in-system averages with respect to hydraulic behavior within the water distribution system. This needs to be readily observable by the state
- The amount of time a seasonal well is used may vary from year to year. For this reason, an extra margin of safety should be built into any weighted averaging approach
- Communication of weighted averaging to consumers

Weighted Averaging Bottomline

- States and EPA Regions with direct implementation authority are responsible for ensuring that any compliance approach will reliably protect public health
- If the system cannot easily and transparently demonstrate how its approach will protect all consumers, then the primacy agency should not approve the plan.

Exemptions

- If granted an exemption, a PWS may have an additional **3** years to comply (Jan. 23, 2009)
- Systems serving 3,300 people or less *may* be eligible for up to 3 additional 2 yr extensions (Jan. 23, 2015)



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EPA Arsenic Websites



http://www.epa.gov/safewater/ars/implement.html

http://www.epa.gov/ORD/NRMRL/arsenic/

For Downloading Presentations and Q&A:

http://www.epa.gov/safewater/dwa/rules.html

Upcoming 2005 Training

- ✓ Arsenic Face-To-Face Trainings
 - o Approximately 5 regional trainings focused on treatment technologies
 - o Spring 2005
- ✓ Webcasts (ASDWA/EPA Partnership)
 - o 10 Webcasts on both Rule and Non-Rule Topics
 - o TCR tentative dates: February

 March