

WHAT'S NEW IN DRINKING WATER REGULATION?

**WESTCAS Fall Conference
Regulatory Session October 30, 2014
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ACTIVE ITEMS

- **Unregulated Contaminant Monitoring Rule 3 (UCMR3)**
- **EPA Regulatory Determination 3 (RD3)**
- **Strontium (Sr)**
- **Chromium-6 (Cr-6)**
- **Arsenic (As)**
- **Carcinogenic VOC's (cVOC)**
- **Cyanobacteria**

UCMR3

- 30 contaminants
 - List 1: 21 VOCs, metals, fire retardants, DBPs
 - List 2: 7 hormones
 - List 3: 2 microbes
- Complete testing by **12/31/15**
- Current Top Hits (PWS's with results >reference concentration)
 - 1,2,3-TCP (1.7%)
 - 1,4-Dioxane (6.8%)
 - Vanadium (3.4%)
 - Strontium (1.0%)
 - Chlorate (35%)
 - Chromium-6 (76%¹)



¹ – No federal reference concentration exists; used California Public Health Goal (0.02 ppb) instead.

RD3

- Contaminant Candidate List 3 (116 contaminants)
- Preliminary determination (5 contaminants)
 - No regulation
 - 1,3-dinitrobenzene
 - Dimethoate
 - Terbufos
 - Terbufos sulfone
 - Regulate
 - Strontium (Sr)
- Chlorate and nitrosamines - assessed next year during M/DBP Rule 6-year review
- Public Comments due 12/19/14
- EPA plans to issue final determination in 2015

STRONTIUM

- Naturally occurring mostly as Sr-88
- Can replace calcium in bones (like fluoride)
- Historical advisory level is 4.2 mg/L
- New rodent studies – advisory level of 1.5 mg/L
- No carcinogenicity data available
- Final determination in 2015
- Proposed MCLG/MCL could come 24 months later
- Cation exchange resin likely effective



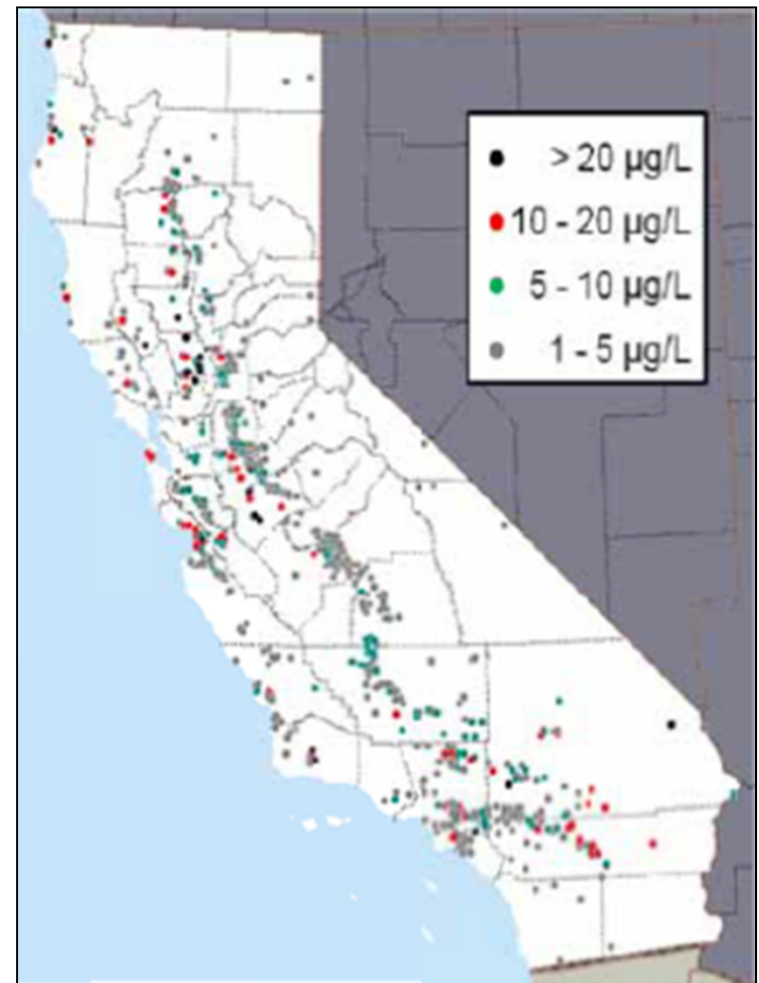
CHROMIUM-6

■ California

- Cr-6 Drinking Water MCL of 10 ppb effective 7/1/14
- Initial compliance monitoring by 1/1/15
- Sources at about 500 PWS's expected to exceed MCL
- BAT is IX, RCF and RO
- Treatment cost generally \$500-700/AF
- ACWA to sponsor 2015 legislation – compliance period

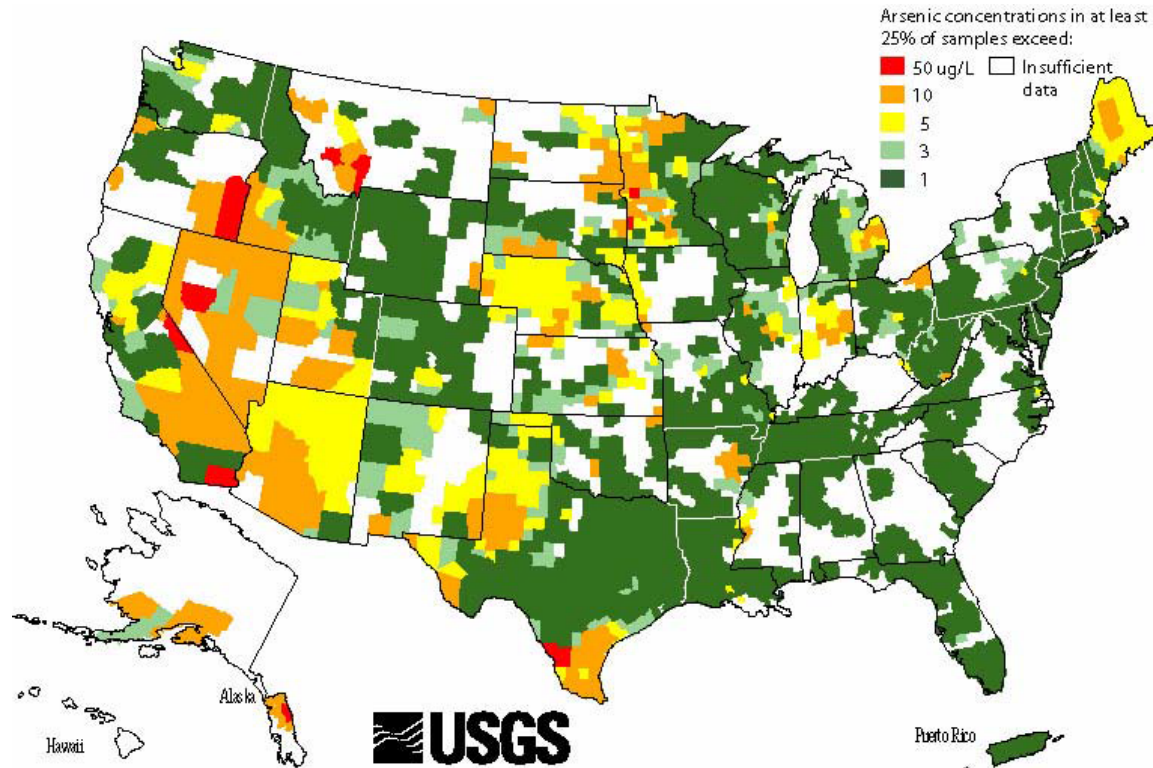
■ Federal

- EPA's Integrated Risk Information System (IRIS) assessment delayed
- Data availability requests – reference documents listed
- Will consider more recent rodent studies than Cal-EPA
- Bi-monthly IRIS meeting October 29-30 discussing Cr-6 risk



ARSENIC

- EPA updating IRIS assessment
- EPA's 1998 assessment did not consider risks separately for early life stages
- Cal-EPA assessment order of magnitude difference; resulted in 0.004 ppb public health goal
- Expect draft IRIS assessment in 2015



CARCINOGENIC VOC'S

- **2011 EPA decision to group cVOC's**
 - May co-occur
 - Same treatment
 - Same analytical method
- **16 cVOC's**
 - **8 Regulated** – benzene; carbon tetrachloride; 1,2-dichloroethane; 1,2-dichloropropane; dichloromethane; tetrachloroethylene; trichloroethylene and vinyl chloride
 - **8 Unregulated** - aniline; benzyl chloride; 1,3-butadiene; 1,1-dichloroethane; nitrobenzene; oxirane methyl; 1,2,3-trichloropropane and urethane
- **EPA expected to release “regulatory process” in late 2014**

CYANOBACTERIA

- Blue-green algae (microcystins)
- Blooms release cyanotoxins
- CCL2 contaminant
- WHO health advisory = 1.0 ug/L
- EPA now developing health advisory level



THE SIMPLE DAYS



QUESTIONS ?

