Ground Water Rule: Corrective Actions

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Groundwater Corrective Actions
§290.116(a)-(f)

TCEQ will require a Corrective Action when a fecal indicator is found in the ground water source.
Fecal Indicators

Fig. 1

Fig. 2

Fig. 3
Source Sample Invalidation
§290.109(d)(2)

• PWS may obtain invalidation if:
  – Lab identifies improper sample or analysis
  – TCEQ determines positive fecal indicator result is not related to source water quality

• If sample is invalidated, replacement sample must be collected within 24 hours
Fecal Positive Source Sample

• TCEQ will require a 24 hour public notification if a positive fecal indicator sample is collected
  – Providers must notify all Receivers

• Fecal-positive source samples will also require corrective action
Corrective Actions
§290.116(b)(5)

PWS with Significant Deficiency or source water fecal indicator positive must implement one of the following:

1. Correct all significant deficiencies
2. Provide alternate source of water
3. Eliminate source of contamination
4. Provide 4-log treatment of viruses
TCEQ Additional Corrective Actions

- Well disinfection in accordance with AWWA procedures
- A State-specified period of Source Monitoring
Compliance Monitoring Chemical Disinfection

• PWS with population > 3,300
  – Must continuously monitor disinfectant
  – Must maintain TCEQ-specified residual

• PWS with population < 3,300
  – Must monitor disinfectant daily
  – Must maintain TCEQ-specified residual
Reporting for PWS

- Must notify TCEQ if fails to meet 4-log treatment of viruses by next day
- Must notify TCEQ within 30 days of completion of Corrective Action
Treatment Technique
Violations

• Corrective Action not completed in 120 days
• Not in compliance with Corrective Action plan and schedule
• Fails to maintain 4-log treatment of viruses
Source Water Assessment Monitoring Option

If directed by TCEQ, PWS would collect 12 consecutive monthly source samples

Provides a proactive approach to Source Monitoring
Corrective Action Compliance

PWS must complete or be in compliance with TCEQ-approved corrective action plan and schedule within 120 days of receiving written notice.
24 Hour PN Required

- When a ground water PWS collects a source water sample that is fecal indicator positive (and is not invalidated)
  - Includes results from:
    - Provider PWS
    - Triggered Source Water Monitoring
    - Source Water Assessment Monitoring
30 Day PN Required

• When a GW PWS fails to:
  – Take corrective action
    • Fecal indicator positive
    • Significant deficiency
  – Comply with a TCEQ-approved schedule and plan
  – Maintain 4-log treatment of viruses
90-Day PN Required

• When a GW PWS fails to:
  – Conduct triggered source water monitoring
  – Conduct assessment source water monitoring
  – Conduct monitoring to demonstrate compliance with 4-log treatment requirement
CCR Notice Required

• When a GW PWS has:
  – An uncorrected significant deficiency
  – Corrected significant deficiency
  – Fecal indicator positive source water sample