Water Treatment T5 Oral Board Practice

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What to expect for the day of the oral?

- 1 representative from the SWRCB
- 3 panel interview
Be prepared and relaxed

Be well groomed and dressed

Be professional and command presence
Introduction

- Introduce yourself to the panel
- Provide educational experience
- Provide your treatment experience
- Provide work or managerial experience
How to Answer

Describe your investigation and actions?

- Regulations
- Plant Operational Actions
- Corrective Actions
- Documentation
- Notification
- Public Notice
- Close Out Event – (Prevention of Future Event)
You receive a SCADA high combined filter effluent (CFE) turbidity alarm?
1. Regulations to Apply
   a. 40 CFR 141
   b. Title 22 – Chapter 17
      i. Interim Enhanced Surface Water Treatment Rule of 1989
      ii. LT1 Enhanced Surface Water Treatment Rule of 1999 – 2006
      iii. LT 2 Enhanced Surface Water Treatment Rule of 2006 – 2015

2. Plant Operational Actions
   a. Check all filters
   b. Check proves trends on SCADA or DCS – determine how long the high NTU has been occurring
   c. Check standby filters for readiness
   d. Check plant processes – sedimentation basins and headworks
   e. Check all chemical process on DCS and physically
   f. Run Jar tests
   g. Check instrumentation
   h. Check NTU, temp. pH, alkalinity, TOC, and chlorine residuals
   i. Check influent water
   j. Take filter grab samples and evaluate results
3. Corrective Actions
   a. Adjust chemical processes – coagulants, polymer aids, filter aids, ozone and post chemicals
   b. Adjust flows if possible – slow plant rate
   c. Season backup filters and bring them into service
   d. Filter to waste or flush filters to waste
   e. Run effluent to the headworks
   f. Utilize second water source
   g. Shutdown plant if possible

4. Documentation
   a. Log incident in logbook
   b. Fill out laboratory logs
5. Notification
   a. Notify Water Treatment Superintendent, Operations and Maintenance, Water Quality, and others outlined in the Water Treatment Plant Operations Plan or SOP
      i. Call
      ii. Email
      iii. Dispatch
   b. Notify mutual aid
   c. Notify SWRCB
   d. Notify impacted agencies

6. Public Notice
   a. Notification to the SWRCB if a Tier 1 Public Notice may be needed

7. Preventing Future Incidents or Violations
   a. Agency staff meeting and lessons learned review
Done with Question

NOT SURE IF I KNOW THE SUBJECT REALLY WELL OR
I COMPLETELY FAILED IT
PRACTICE QUESTIONS
The End