



Department of Environmental Protection

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Procedures Relative To The Detection of Contaminants During The New Source Approval Process

Effective Date: 10-20-88

Policy, SOP or Guideline **#87-27**

Program Applicability:

Supersedes Policy, SOP or Guidance:

Approved by: Patricia L. Deese

This policy is adopted to expand and replace Scenario III of DWP Policy 87-04, Procedures for Use of EPA's PMCLs. It provides procedures to be followed by DWSP staff when ~~chemicals with Drinking Water Standards or Guidelines~~ contaminants of concern with benchmark levels are detected during the exploratory phase of the new source approval process. Benchmark levels include: Proposed Maximum Contaminant levels (MCLs), Office of Research and Standards Guidelines (ORSG) and Health Advisories.

Policy

If during the New Source Approval process (See MassDEP Drinking Water Program's: "Guidelines for Public Water Systems Chapter 3: Surface Water Supply Development and Chapter 4: Groundwater Supply Development" ~~Procedure for New Groundwater Source Approvals; DWS Policy 86-02~~), one or more of the contaminants described above is detected and verified by a confirmation sample, the following process will be followed:

- A. Are contaminants detected in test well during exploration program?
 1. NO – Proceed with New Source Approval Process.
 2. YES -
 - a. Request pumping and redevelopment of test well, and
 - b. Resample using sanitary sampling protocols

- B. Do Analytical results again indicate contaminants?
 1. NO - Proceed with New Source Approval Process
 2. YES - Consider alternative sources

- C. Are alternative sources feasible?
 1. NO - Contact ORS and request evaluation of health effects of detected chemicals to determine if treatment will be necessary.

2. YES -
 - a. Pursue new Source Approval Process for new site, and
 - b. Abandon old site and refer to ~~DHW~~ BWSC for investigation

D. Are contaminants within treatable limits?

1. NO -
 - a. Abandon source and resume search for alternatives
 - b. Refer to ~~DHW~~ BWSC for investigation
2. YES -
 - b. Continue below

E. Is Wellhead treatment necessary at this time?

1. NO -
 - a. Proceed with New Source Approval Process, and
 - b. Design wellhead to easily accommodate treatment in the future, and
 - c. Design monitoring program and trend analysis for early warning of need for treatment
2. YES -
 - a. Design and conduct a pumping test, and
 - b. Conduct standard pump test water quality sampling, and
 - c. Request ORS review of pump test results, and
 - d. Design and construct wellhead treatment facility, and
 - e. Design and implement raw water monitoring program to assure early warning of dramatic changes in raw water quality which may adversely impact treatment, and
 - f. Refer site to BWSC ~~OSC~~ for investigation of containment source.

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