



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

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PERNOLD

LOG L-2003

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FILE: 5412

REPLY TO THE ATTENTION OF:

AUG 04 1998

Mr. Johnny W. Reising
United States Department of Energy
Feed Materials Production Center
P.O. Box 398705
Cincinnati, Ohio 45239-8705

SRF-5J

RE: IEMP 1st QTR Comments

Dear Mr. Reising:

The United States Environmental Protection Agency (U.S. EPA) has completed its review of the United States Department of Energy's (U.S. DOE) integrated environmental monitoring report for the first quarter of 1998. This document is designed to meet the site-wide environmental monitoring reporting requirements, pursuant to the Integrated Environmental Monitoring Plan (IEMP).

U.S. EPA has identified a few discrepancies which should be addressed in future quarterly reports.

Please contact me at (312) 886-0992 if you have any questions regarding this matter.

Sincerely,

James A. Saric
Remedial Project Manager
Federal Facilities Section
SFD Remedial Response Branch #2

Enclosure

cc: Tom Schneider, OEPA-SWDO
Bill Murphie, U.S. DOE-HDQ
John Bradburne, FERMCO
Terry Hagen, FERMCO
Tom Walsh, FERMCO

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TECHNICAL REVIEW COMMENTS ON "INTEGRATED ENVIRONMENTAL MONITORING STATUS REPORT FOR FIRST QUARTER 1998"

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SPECIFIC COMMENTS

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 1.0 Page #: 1-2 Line #: 27 and 28
Original Specific Comment #: 1

Comment: The text cites Figures 1-19 and 1-20, which present the limits of the estimated groundwater capture zone. Because the extent of the capture zone is an estimate, its limits are open to interpretation. However, the line depicting the limit of the capture zone in the southeastern and southwestern portions of the plume (especially in Figure 1-20) is not perpendicular to the groundwater elevation contours as it should be. Therefore, as the figures are drawn, they slightly overestimate the extent of the capture zone. Although moving the line depicting the limit of the capture zone will not significantly affect the conclusions stated in the text, it would more accurately reflect the field data.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 1.0 Page #: 1-2 Line #: 30
Original Specific Comment #: 2

Comment: The text cites Figure 1-21, which presents the groundwater flow direction indicated by the borescope data. The groundwater flow direction indicated by these data is not consistent with the flow direction indicated by the groundwater elevation data for the area of groundwater monitoring wells 2552 and 3552. This discrepancy may be a result of measuring groundwater flow direction at a point as opposed to measuring it over a larger area. In any case, the reason for any such discrepancies should be clearly explained in future quarterly reports.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 1.0 Page #: 1-2 and 1-3 Line #: Not Applicable (NA)
Original Specific Comment #: 3

Comment: The discussion of the borescope data on these pages indicates that the borescope data for the shallow portion of the aquifer (less than 3 feet below the water table) are not representative of the bulk groundwater flow in the area. To ensure that the monitoring of the aquifer with the borescope yields usable data, the U.S. Department of Energy (DOE) should modify its monitoring scheme to collect borescope data at consistent shallow, medium, and greater depths

