



Department of Energy

**Ohio Field Office
Fernald Area Office**

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AUG 06 1998

DOE-1063-98

**Mr. James A. Saric, Remedial Project Manager
U.S. Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590**

**Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911**

Dear Mr. Saric and Mr. Schneider:

**NOTIFICATION OF AN EXCEEDANCE OF 20 UG/L MONTHLY AVERAGE URANIUM
CONCENTRATION AT THE PARSHALL FLUME**

Based on preliminary results from the daily composite total uranium analyses at the Parshall Flume for the month of July 1998, the Fernald Environmental Management Project's (FEMP) monthly average uranium concentration in water discharged to the Great Miami River was 20.7 micrograms per liter (ug/L) or parts per billion (ppb). The Record of Decision (ROD) for Operable Unit 5 (OU5) (January 1996) established 20 ppb as the limit (based on a daily composite, averaged over the month). This notification is being submitted to you at this time per the requirements of the approved Operations and Maintenance Master Plan for Aquifer Restoration and Waste Water Treatment Project (OMMP) (November 1997). The FEMP has received 36.2 inches of rainfall for the year, which is nearly 11 inches above the Cincinnati area average as measured at the Greater Cincinnati Area Airport (see enclosure).

As noted in Storm Water Bypass Notification dated July 27, 1998, (electronic correspondence from Robert Janke to James Saric and Tom Schneider), the FEMP utilized its 10th bypass day on Monday, July 20, 1998. Tuesday through Thursday (July 21, 1998, - July 23, 1998) represented the FEMP's 11th, 12th, and 13th Storm Water bypass days for the year. Per the OU5 ROD, storm water bypass days in excess of the ten allowed must be included in the calculation of the monthly average uranium concentration in water discharged to the Great Miami River.

As per the OMMP, normally no corrective action would be required unless a sequence of monthly composited averages are found to be above 20 ppb then corrective measures would need to be evaluated (Section 3.6.2). However, it has been determined that clean surface water flows from the construction of Cells 2 and 3 of the On-Site Disposal Facility (OSDF) were pumped to the storm sewer system within the former production area. These additional surface water flows to the storm sewer system represented drainage from approximately 20 acres. A corrective action has already been initiated to stop any further storm water flows from OSDF Cells 2 and 3 in order to ensure that the Storm Water Retention Basins (SWRB) design capacity is not exceeded. As discussed in our July 28, 1998, meeting on Storm Water/Waste Water, the FEMP is aggressively pursuing efforts to evaluate all surface water flows to the SWRB to ensure that the 10 year, 24 hour design capacity of the basins is maintained. The FEMP will continue to evaluate (1) the sources of input to the SWRB and (2) the SWRB operational guidelines provided in the OMMP.

As noted in the July 28, 1998, meeting, a more comprehensive discussion of storm water and waste water will occur in an upcoming meeting, tentatively scheduled for sometime in September 1998; however, progress of our reevaluation will be provided as necessary in the weekly conference calls.

If you should have any questions, please contact Robert Janke at (513) 648-3124.

Sincerely,



Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:R.J. Janke

Enclosure: As Stated

cc w/enc:

G. Jablonowski, USEPA-V, SRF-5J
R. Beaumier, TPSS/DERR, OEPA-Columbus
T. Schneider, OEPA-Dayton (total of 3 copies of enc.)
F. Bell, ATSDR
M. Schupe, HSI GeoTrans
R. Vandegrift, ODH
F. Barker, Tetra Tech
D. Carr, FDF/52-2
T. Hagen, FDF/65-2
J. Harmon, FDF/90
AR Coordinator, FDF/78

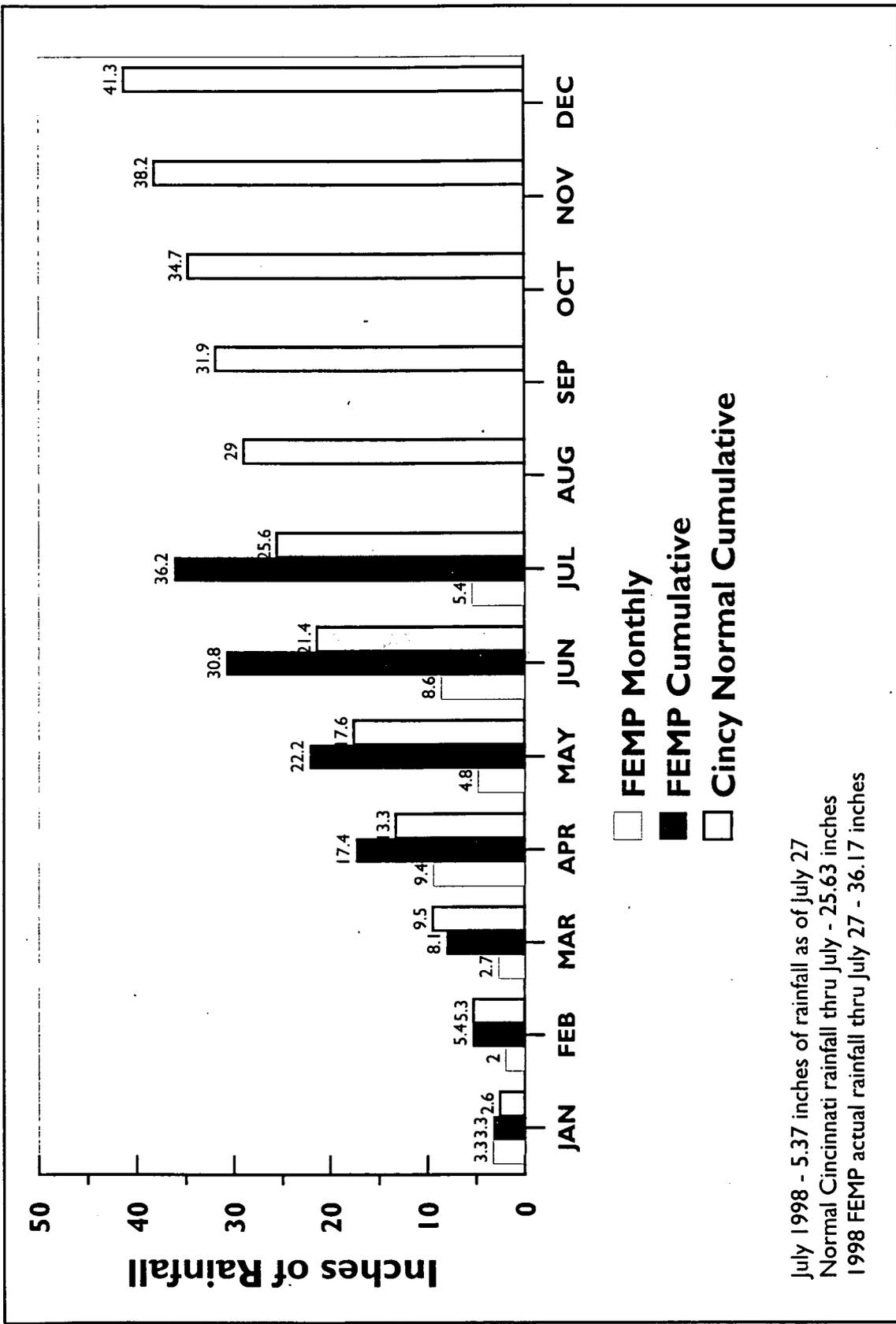
cc w/o enc:

N. Hallein, EM-42/CLOV
A. Tanner, DOE-FEMP
R. Heck, FDF/2
S. Hinnefeld, FDF/2
EDC, FDF/52-7

1998 FEMP PRECIPITATION vs. AVERAGE

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July 1998 - 5.37 inches of rainfall as of July 27
 Normal Cincinnati rainfall thru July - 25.63 inches
 1998 FEMP actual rainfall thru July 27 - 36.17 inches

4