



Department of Energy

Ohio Field Office  
 Fernald Closure Project  
 175 Tri-County Parkway  
 Springdale, Ohio 45246  
 (513) 648-3155



JAN 5 2005

Mr. James A. Saric, Remedial Project Manager  
 United States Environmental Protection Agency  
 Region V, SR-6J  
 77 West Jackson Boulevard  
 Chicago, Illinois 60604-3590

DOE-0112-05

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

Dear Mr. Saric and Mr. Schneider:

**DETERMINATION THAT NO ADDITIONAL GROUNDWATER EXTRACTION  
 WELLS ARE NEEDED IN EXCAVATION AREAS 3A/4A TO SUPPORT SITE  
 CLOSURE IN 2006**

- References:
- 1) Project Specific Plan for Direct-Push Groundwater Sampling in Former Soil Excavation Areas, Revision 1, Final, May 2004
  - 2) Letter, J. Saric to J. Reising, "Direct-Push Groundwater PSP RTC," dated June 22, 2004
  - 3) Letter, T. Schneider to W. Taylor, "Approval PSP for Direct-Push Sampling in Production Area," dated August 4, 2004

Enclosed for your review are the direct-push groundwater sampling results from Excavation Areas 3A/4A. The samples were collected per the Project Specific Plan (PSP) for Direct-Push Groundwater Sampling in Former Soil Excavation Areas noted in Reference 1. The PSP was approved by both the United States Environmental Protection Agency (USEPA) and Ohio Environmental Protection Agency (OEPA) as noted in References 2 and 3 above. The groundwater samples were tested for total uranium and technetium-99. These data were collected in order to determine if additional groundwater remedy infrastructure is required in Areas 3A/4A to support site closure in 2006. The data indicates that groundwater concentrations for both uranium and technetium-99 are below their established final remediation levels, and that there is no need for additional groundwater extraction wells in Areas 3A/4A to support Aquifer

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restoration. While the data indicate there is no need for extraction wells in this area, the Department of Energy (DOE) will continue to conduct groundwater monitoring in the area via the current monitoring well network, as identified in the Integrated Environmental Monitoring Plan, Revision 4.

If you have any questions or require additional information, please contact Dave Lojek at (513) 648-3127.

Sincerely,



William J. Taylor  
Director

FCP:Lojek

Enclosures: As Stated

cc w/enclosures:

D. Lojek, OH/FCP

J. Reising, OH/FCP

T. Schneider, OEPA-Dayton (three copies of enclosures)

G. Jablonowski, USEPA-V, SR-6J

M. Murphy, USEPA-V, AE-17J

F. Bell, ATSDR

M. Cullerton, Tetra Tech

M. Shupe, HSI GeoTrans

R. Vandegrift, ODH

AR Coordinator, Fluor Fernald, Inc./MS78

Mr. James A. Saric  
Mr. Tom Schneider

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cc w/o enclosures:

K. Johnson, OH/FCP  
R. Abitz, Fluor Fernald, Inc./MS64  
K. Alkema, Fluor Fernald, Inc./MS01  
L. Barlow, Fluor Fernald, Inc./MS52-3  
K. Broberg, Fluor Fernald, Inc./MS52-5  
T. Carr, Fluor Fernald, Inc./MS60  
J. Chiou, Fluor Fernald, Inc./MS64  
K. Harbin, Fluor Fernald, Inc./MS52-1  
W. Hertel, Fluor Fernald, Inc./MS52-5  
M. Jewett, Fluor Fernald, Inc./MS01  
F. Johnston, Fluor Fernald, Inc./MS52-5  
S. Lorenz, Fluor Fernald, Inc./MS52-3  
F. Miller, Fluor Fernald, Inc./MS64  
C. Murphy, Fluor Fernald, Inc./MS77  
D. Nixon, Fluor Fernald, Inc./MS01  
D. Powell, Fluor Fernald, Inc./MS64  
T. Snider, Fluor Fernald, Inc./MS64  
B. Zebick, Fluor Fernald, Inc./MS60  
ECDC, Fluor Fernald, Inc./MS52-7

**DIRECT-PUSH SAMPLING RESULTS IN AREAS 3A/4A**

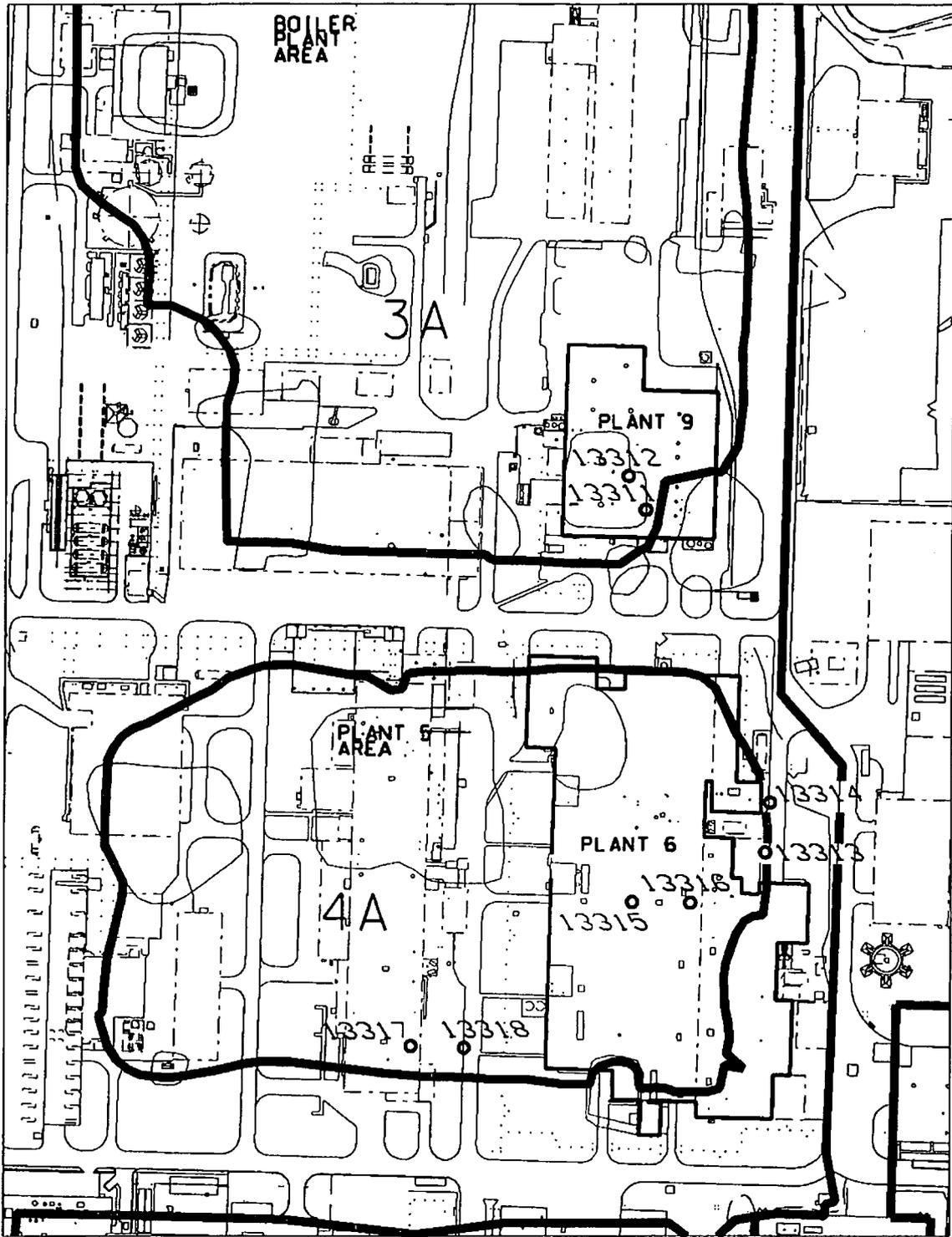
Location	Area	Collection Date	Uranium Results (ug/L) (FRL = 30 ug/L)				Technetium-99 (pCi/L) (FRL = 94 pCi/L)			
			1 foot	10 feet	20 feet	20 feet Duplicate	1 foot	10 feet	20 feet	20 feet Duplicate
13311	Plant 9	8/2/2004	< 1	< 1	< 1	< 1	< 5.57	< 4.67	< 2.33	7.89
13312	Plant 9	8/5/2004	1.9	< 1	< 1	< 1	6.81	7.01	< 5.41	< 4.64
13313	Plant 6	*								
13314	Plant 6	7/7/2004	12.0	1.6	1.3	1.6	6.6	< 4.9	9.9	6.4
13315	Plant 6	7/13/2004	2.4	3.9	< 1	< 1	< 1.5	< 0.22	< - 0.44	< 1.8
13316	Plant 6	7/15/2004	< 1	< 1	< 1	< 1	< 2.7	< 2.3	< 0	< -3.3
13317	West of MW 2389	6/28/2004	6.7	1	< 1	< 1	6.7	< 1	< 1	< 1
13318	East of MW 2389	7/1/2004	27.4	< 1	< 1	< 1	6	8	< 5.4	< 5.3

\* Location abandoned due to the presence of water

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STATE PLANNING COORDINATE SYSTEM 1983

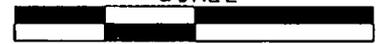
\$\$\$DATE\$\$\$



LEGEND: — EXCAVATION AREA BOUNDARY

13312 ○ GEOPROBE LOCATION

SCALE



200 100 0 200 FEET

DRAFT

FIGURE 1. DIRECT-PUSH GROUNDWATER SAMPLING LOCATIONS IN GMA BENEATH EXCAVATION AREAS 3A AND 4A