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**SUBMITTAL OF THE RESPONSES TO COMMENTS ON THE ADDENDUM TO  
THE PROJECT SPECIFIC PLAN FOR PHASE I AND PHASE II OF THE  
OPERABLE UNIT 2 PREDESIGN REPORT**

04/12/96

DOE-0775-96  
DOE-FN          EPAS  
6  
RESPONSES



**Department of Energy**

**Ohio Field Office  
Fernald Area Office**

P. O. Box 538705  
Cincinnati, Ohio 45253-8705  
(513) 648-3155



**APR 12 1996**

**DOE-0775-96**

**Mr. James A. Saric, Remedial Project Director  
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:**

**SUBMITTAL OF THE RESPONSES TO COMMENTS ON THE "ADDENDUM TO THE PROJECT SPECIFIC PLAN FOR PHASE I AND PHASE II OF THE OPERABLE UNIT 2 PREDESIGN REPORT"**

Enclosed for your review and approval is the U.S. Department of Energy's (DOE) Response to Comments on the "Addendum to the Project Specific Plan for Phase I and Phase II of the Operable Unit 2 (OU2) Predesign Report." We would appreciate your comments and concurrence within a month.

If you have any question or comments, please contact Mr. Rod Warner at (513) 648-3156.

Sincerely,

*for* **Johnny W. Reising  
Fernald Remedial Action  
Project Manager**

**FN:Jalovec**

**Enclosure: As Stated**

cc w/enc:

R. L. Nace, EM-423/GTN  
G. Jablonowski, USEPA-V, 5HRE-8J  
Manager, TPSS/DERR, OEPA-Columbus  
F. Bell, ATSDR  
D. S. Ward, GeoTrans  
R. Vandegrift, ODOH  
S. McLellan, PRC  
J. Harmon, FERMCO/90  
AR Coordinator, FERMCO/78

cc w/o enc:

J. Patterson, DOE-FN  
L. Parsons, DOE-FN  
D. Pfister, DOE-FN  
R. Warner, DOE-FN  
S. Pearce, BA&H  
S. Garland, FERMCO/52-2  
T. Hagen, FERMCO/65-2  
M. Hickey, FERMCO/52-2  
G. Jones, FERMCO/52-2  
C. Little, FERMCO/2  
P. Norman, FERMCO/52-2  
N. Weatherup, FERMCO/52-2  
M. Yates, FERMCO/9





**COMMENTS ON THE " Addendum To The Operable Unit 2 Project Specific Plan for Phase I  
And Phase II Of The Operable Unit 2 Predesign Report"**

Commenting Organization: Ohio EPA

Commentor: GeoTrans, Inc.

Section #: 1.0

Pg. #: 1

Line #: 22-24 Code: C

Original Comment # 1

**Comment:** Current preliminary construction plans for the On-Site Disposal Facility call for removal of three to five feet of the upper till, not to eleven feet. The existing drainage tile system is believed to be located approximately four to five below grade.

**Response:** The preliminary construction plans call for the nominal excavation of 2 to 11 feet of the upper till to construct the liner system. The planned excavation to install the liner system generally follows the existing terrain thereby maximizing the thickness of the clay units under the On-Site Disposal Facility (OSDF). The east-west leachate collection pipes are currently designed with a minimum slope of 1 percent to assure post-settlement gravity drainage. Due to the mildly undulating terrain and OSDF geometry, this results in variable excavation depths. For the east-west leachate collectors, the proposed depth of excavations have the following ranges:

**DEPTH (FT)**

	<u>MIN</u>	<u>MAX</u>	<u>AVG</u>
East Limit	4	9.5	6.8
Center Line	2.0	13.5	7.0
West Limit	4.0	10.5	7.0

In areas with shallow excavations (i.e., less than 5-ft) special precautions will be taken during subgrade preparation to ensure the removal of the drainage tile prior to construction of the liner system.

**Action:** No action.

Commenting Organization: Ohio EPA  
Section #: 2.1 Pg. #: 4

Commentor: GeoTrans, inc.  
Line #: 1-13 Code: C

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Original Comment # 2

Comment: Slug tests are not included as part of the Groundwater Flow Characterization tasks to be performed. The need for slug tests was identified in the Modeling, Section 3 and Path Forward, Section 6 of the Predesign Investigation and Site Selection Report for the On-Site Disposal Facility, July 1995. Slug test were to be performed to better determine the horizontal hydraulic conductivities of the upper aquifer system.

Response: Slug tests were performed in May and July of 1995, during Phase III of Sitewide Disposal Facility Field Investigation (see section 7.25, GSTP for Phase III of Sitewide Disposal Facility Field Investigation, Revision 2), after the predesign activities were completed. The results from the slug tests will be presented in the same report that presents the results of the Addendum activity.

Action: No action.

Commenting Organization: Ohio EPA  
Section #: 2.1 Pg. #: 4

Commentor: DDAGW  
Line #: Code:

Original Comment # 3

Comment: Flow meters are usually useful when flow rates are high, such as for a sand and gravel aquifer. What will the effect of the slow flow rate in the till aquifer be on the usability of the flow meter in this investigation?

Response: The KV Flowmeter is a heat-pulse flow meter and is designed to measure very slow flow rates, down to .01 ft./day. Heat-pulse flowmeters have the ability to provide accurate and vertically discrete measurements of hydraulic conductivity, as referenced in the RCRA Groundwater Monitoring: Draft Technical Guidance, 1994, page 4-50.

Action: No action.

Commenting Organization: Ohio EPA  
Section #: 2.2 Pg. #: 4

Commentor: GeoTrans, Inc.  
Line #: 16-17 Code: C

Original Comment # 4

Comment: The existing drainage tile network that has already been identified is not shown on Figure 1.

Response: The location of known drainage tiles will be added to Figure 1.

Action: Drainage tile locations were added to Figure 1 (see attached).