006403

Department of Energy

Ohio Field Office
Fernald Closure Project
175 Tri-County Parkway
Springdale, Ohio 45246

JUL 24 2006

DOE-0172-06

Mr. Michael Murphy, Health Physicist
U.S. Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Mr. James A. Saric, Remedial Project Manager
U.S. Environmental Protection Agency
Region V-SRF-5J
77 W. Jackson Blvd.
Chicago, IL 60604-3590

Mr. Thomas Schneider, Project Manager
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402-2911

Dear Mr. Murphy, Mr. Saric and Mr. Schneider:

RECOMMENDED REDUCTION FOR ENVIRONMENTAL AIR MONITORS

The purpose of this correspondence is to transmit a request to United States Environmental Protection Agency (EPA) and Ohio Environmental Protection Agency (OEPA) regarding the reduction of environmental air monitors. With respect to the Fernald site, there are project area (i.e., Silos area), site boundary, and background environmental air monitors. The environmental air monitors include particulate monitors, radon monitors, and thermoluminescent dosimeters (TLDs). This letter focuses on the following:

- Removal of environmental air monitors in the Silos area
- Alignment of the environmental TLD program with the existing site boundary/background air-monitoring network
- Removal of WPTH-2 (particulate - thorium) and PR-1 (radon) to also align the existing site boundary air-monitoring network.

The recommended reduction of monitors in the Silos area would include the removal of eight radon locations, three particulate locations, and two TLD locations (Refer to Figure 1). The removal of the environmental air monitors in the Silos area directly corresponds with the completion of decontamination and demolition activities in the Silos area (completion by the end of July). At this time, the source materials in the area have been removed and the buildings that

stored these materials have been dismantled and also removed. Environmental air monitoring in the Silos area was conducted during all these activities. The remaining soil excavation and certification activities to be performed in the Silos area will continue to be monitored with occupational air monitors, and data will continue to be made available, as necessary to environmental personnel to determine the potential impact of activities on site boundary monitors. (Note that soil excavation activities are expected to be complete mid-August). For these reasons and additionally based on existing environmental monitoring data (provided via IEMP Extranet site, email, and through project completion reports), it is recommended that the environmental air monitors in the Silos area be removed during the first week of August. The alignment of the environmental TLD program with the existing site boundary/background network would involve eliminating nine TLDs (five site boundary locations and 4 background locations). Figure 2 shows nine TLDs that are recommended for removal. These nine TLDs are in addition to those TLDs shown in Figure 3, which shows the existing 11 site boundary/background locations (collocated particulate monitors, radon monitors, and TLDs). Based on the removal of the primary source materials from the Fernald site, it is thought that the remaining 11 collocated site boundary TLDs will sufficiently address monitoring.

Note that the 11 site boundary/background locations in place now will remain until current soil certification processes are completed, the on-site disposal facility is capped, and EPA/OEPA concur that it is appropriate to reduce the boundary network.

Also enclosed in this transmittal is the request to discontinue service of WPTH-2 (particulate-thorium), which was originally put in place to monitor Waste Pit area activities, and the collocated radon monitor, PR-1. (Note: These monitors are located between AMS-27 and AMS-6, refer to Figure 3). With the completion of Silos area decontamination and dismantlement activities, monitoring of radon and thorium at this location should no longer be required. As indicated above, there are 11 collocated (particulate monitors, radon monitors, and TLDs) that will remain at the site boundary for the time being as agreed by EPA and OEPA with the approval of the Phase 1 network reduction (approval given in April 11, 2006 conference call).

If you have any questions or need further information, please contact me at (513) 648-3139. Note: Concurrence on removing these monitors will be requested at the July 28 technical exchange meeting.

Sincerely,

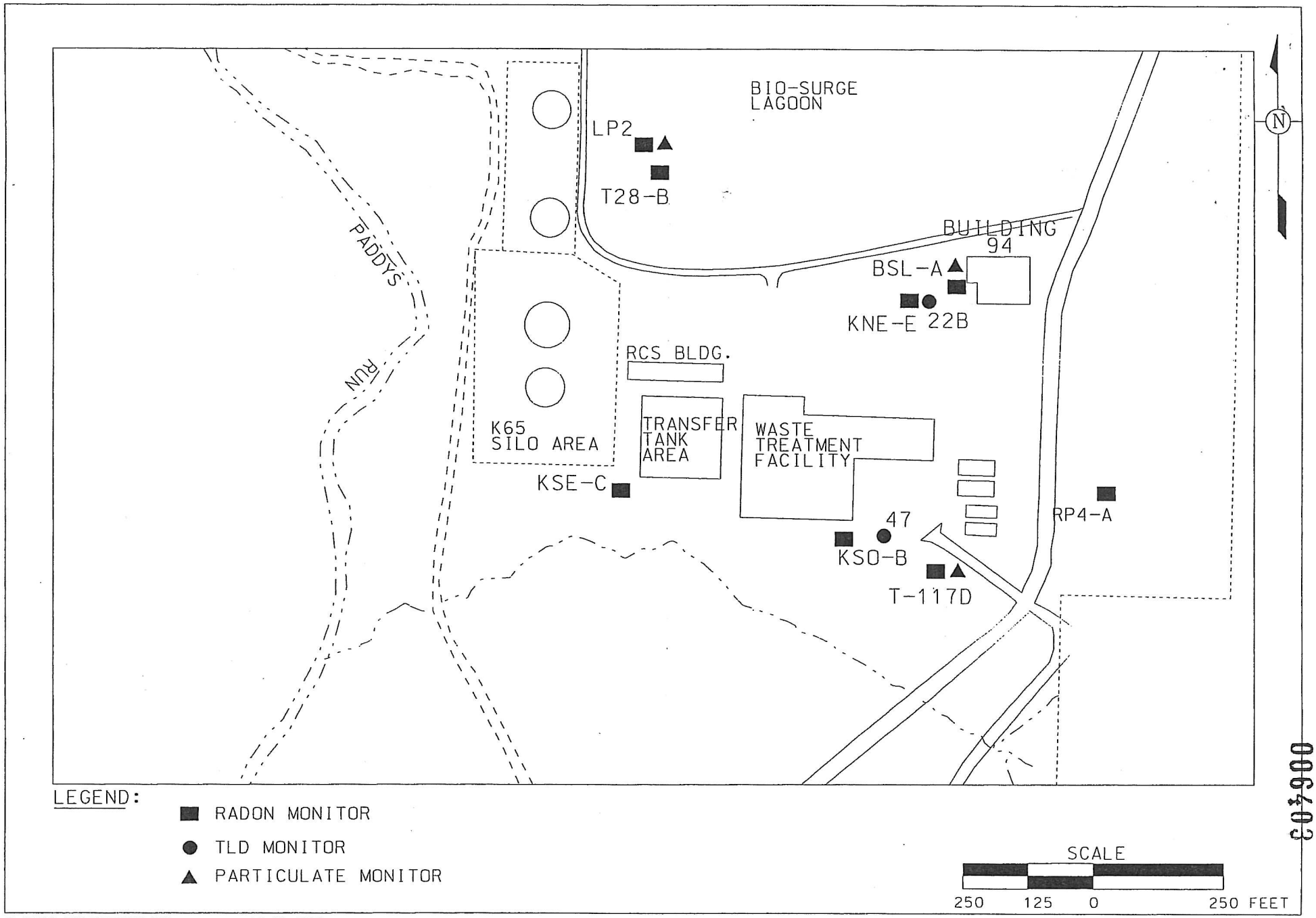
Johnny Reising

Johnny W. Reising
Director

Enclosure: As Stated

cc w/enclosure:
E. Skintik, DOE-OH
J. Powell, DOE-LM, MS2
J. Craig, DOE-LM
C. Jacobson, Stoller, Inc.
M. Lutz, Stoller, Inc.
M. Miller, Stoller, Inc., MS2
M. Cullerton, Tetra Tech
G. Jablonowski, USEPA-V, SR-6J
T. Schneider, OEPA-Dayton (3 copies of enclosures)
M. Shupe, HSI GeoTrans
S. Helmer, ODH

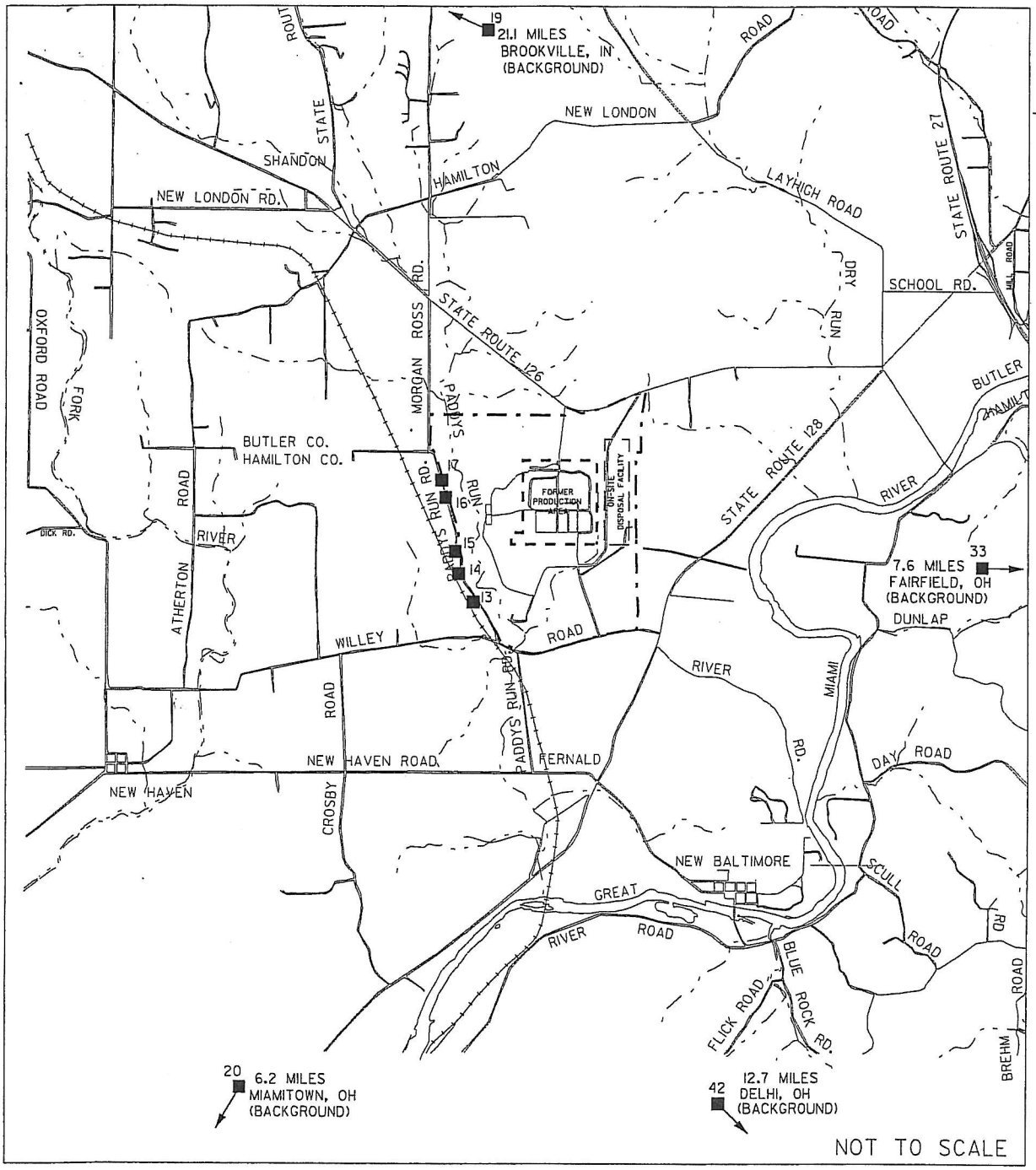
c w/o enclosure:
J. Chiou, Fluor Fernald, Inc., MS88
F. Johnston, Fluor Fernald, Inc., MS12
W. Hertel, Fluor Fernald, Inc., MS12
M. Cherry, Fluor Fernald, Inc., MS77
C. Murphy, Fluor Fernald, Inc., MS1
P. Mohr, Fluor Fernald, Inc., MS1
C. Tabor, Fluor Fernald, Inc., MS12



V:/5FGP1/DGN/CINDY018.DGN 19-JUL-2006
STATE PLANAR COORDINATE SYSTEM 1927

FIGURE 1. PROJECT AREA IEMP AIR MONITORS

006403



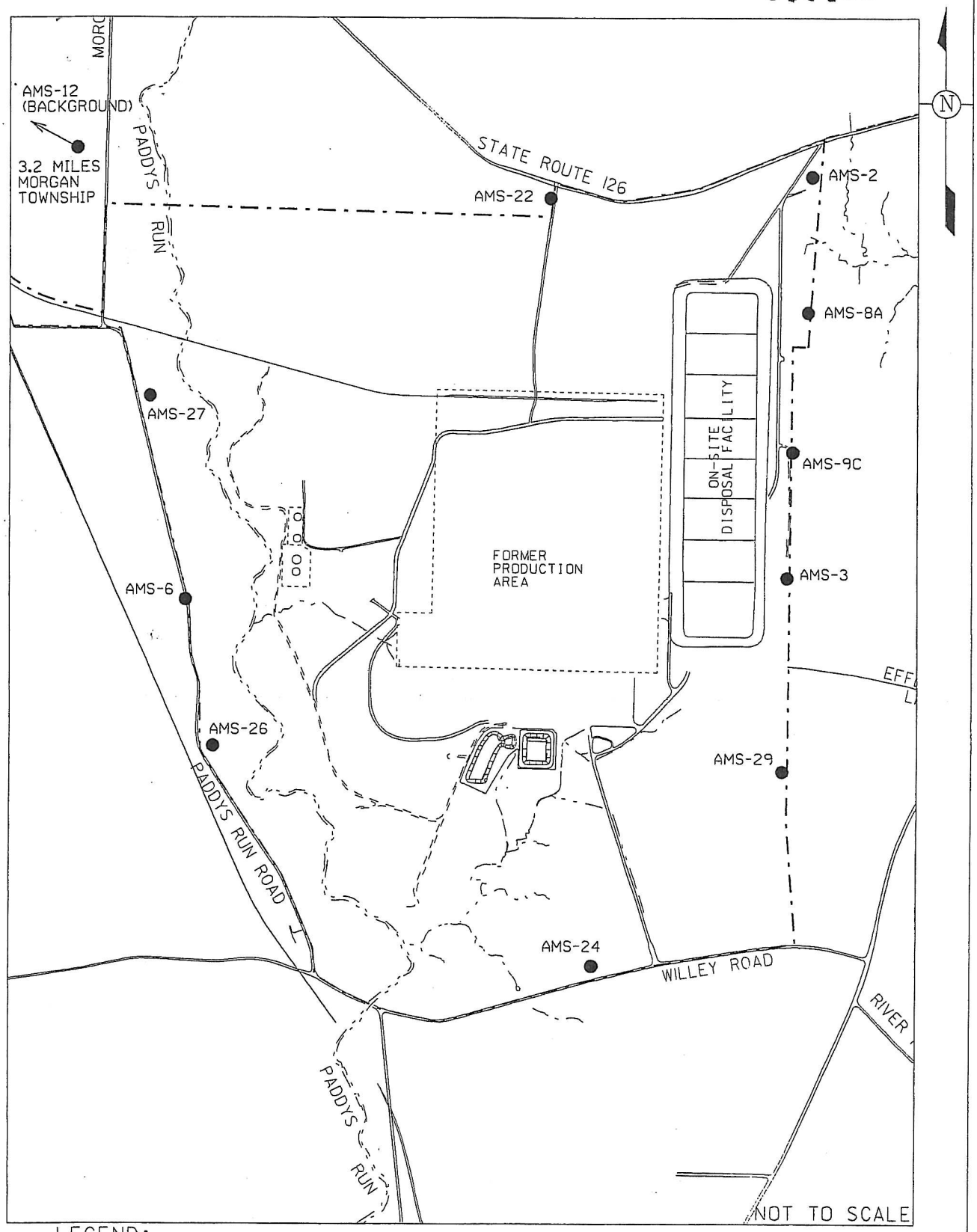
LEGEND:

DISTANCE FROM CENTER OF FORMER PRODUCTION AREA TO SAMPLE LOCATIONS OFF MAP

FERNALD SITE BOUNDARY

DIRECT RADIATION (TLD) MONITORING LOCATION

FIGURE 2. ENVIRONMENTAL TLDs RECOMMENDED FOR REMOVAL



LEGEND:

- FERNALD SITE BOUNDARY
- AMS LOCATION
- DISTANCE FROM CENTER OF FORMER PRODUCTION AREA TO AMS LOCATION OFF MAP

FIGURE 3. ENVIRONMENTAL SITE BOUNDARY AIR MONITORING NETWORK