

# MOUND

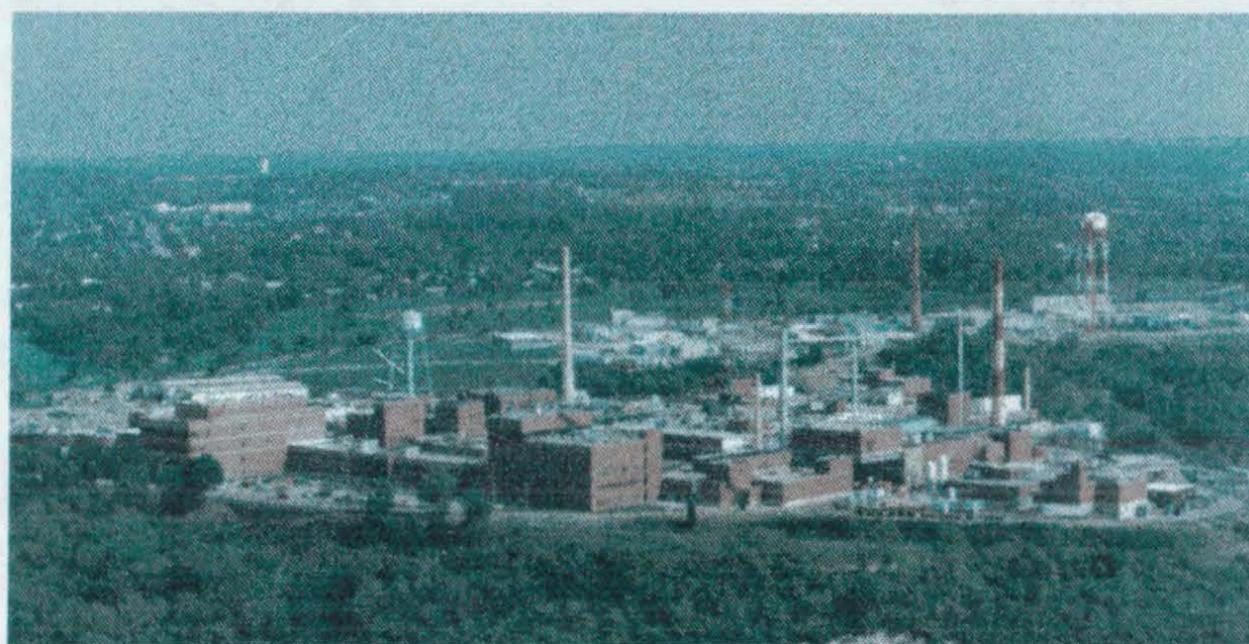


Environmental  
Restoration  
Program



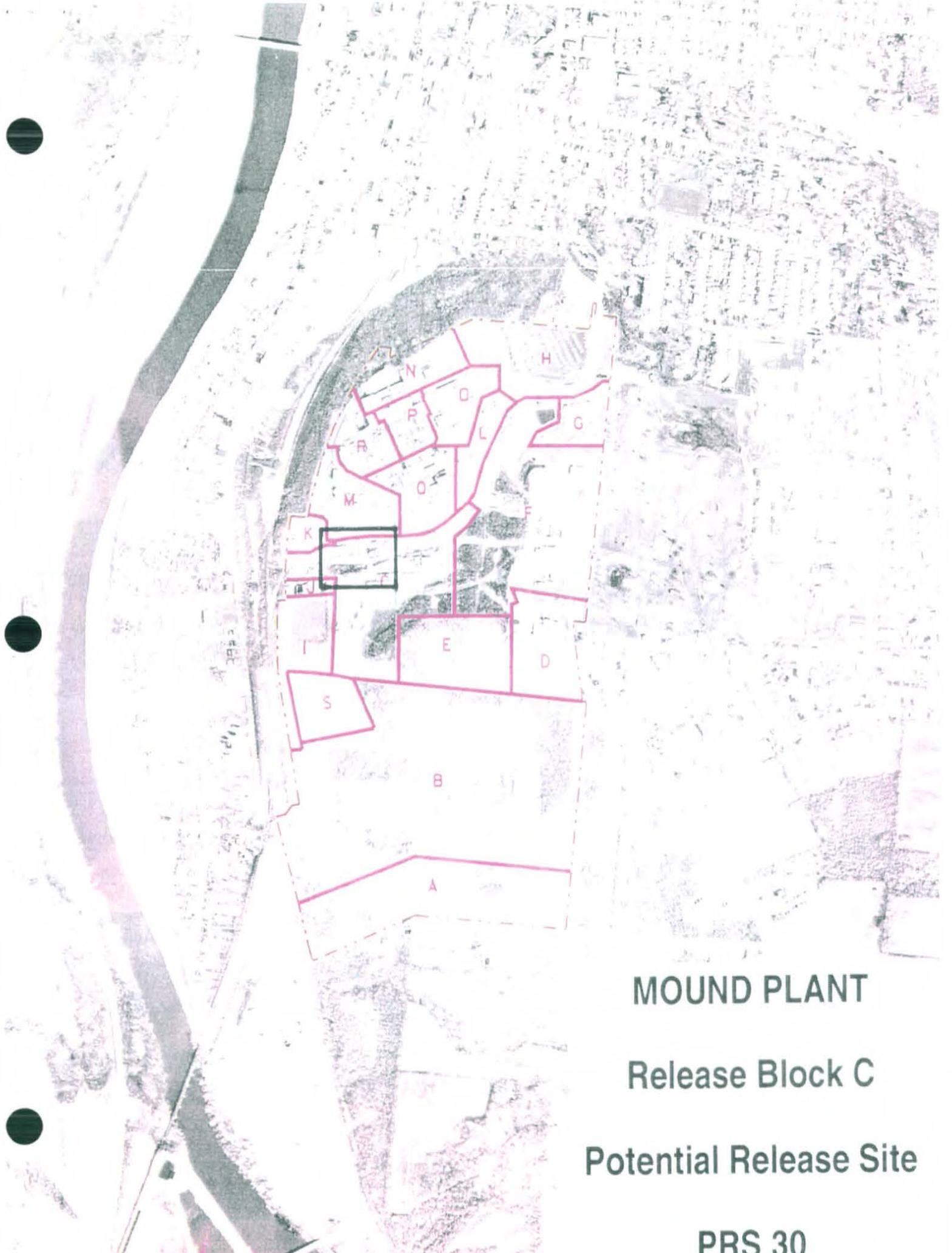
## MOUND PLANT

Potential Release Site Package  
PRS # 30



PRS 30

REV	DESCRIPTION	DATE
0 PUBLIC RELEASE	Available for comments.	Mar. 19, 1997
1 FINAL		

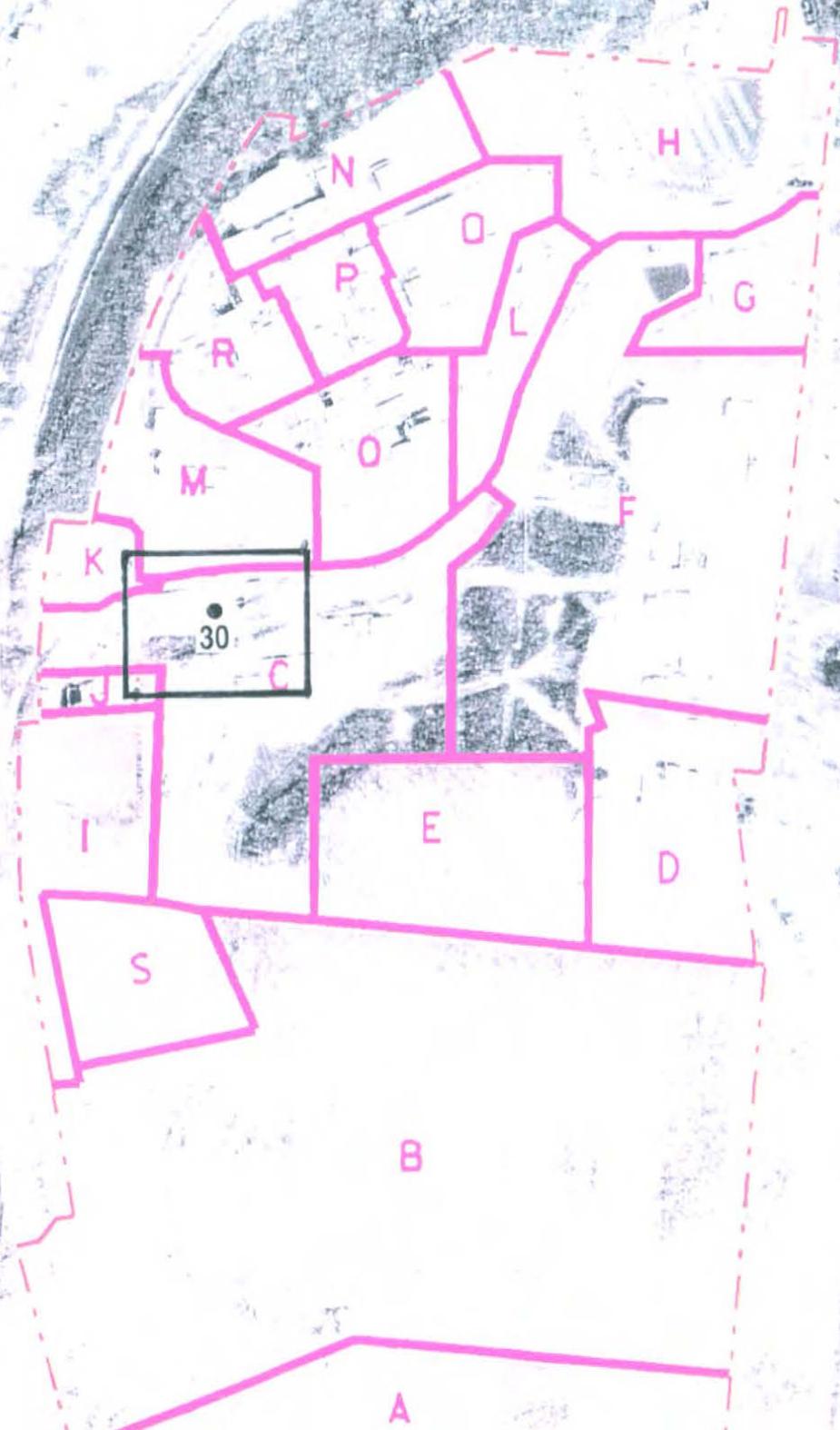


**MOUND PLANT**

**Release Block C**

**Potential Release Site**

**PRS 30**

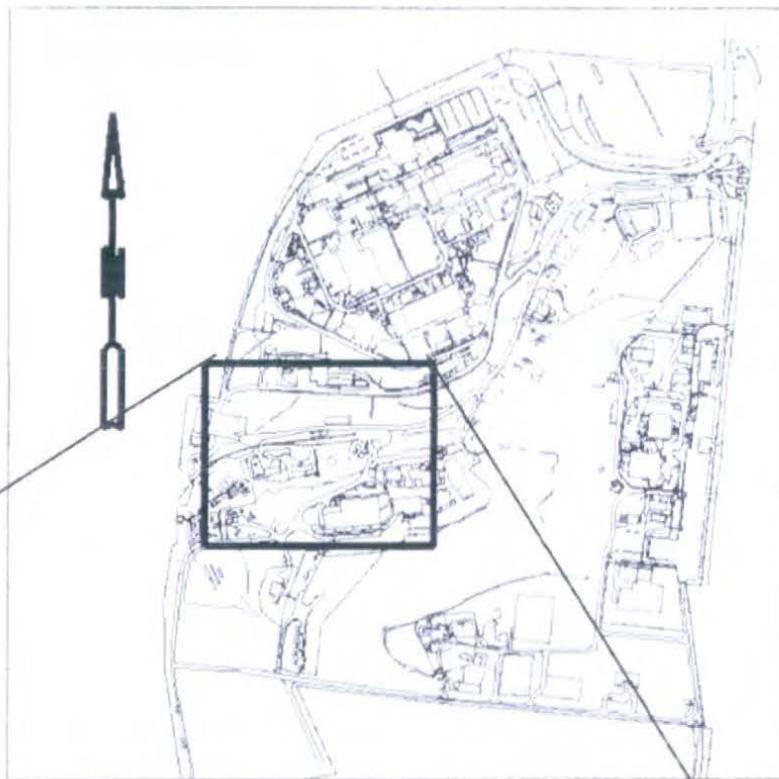


**Mound Plant**

**Release Block C**

**Potential Release Site**

**PRS 30**





## **PRS 30**

### **PRS HISTORY:**

Potential Release Site (PRS) 30 is the site north of Building 27 where a propane tank was located. The propane was used to power an emergency generator<sup>2</sup>. This tank was mistakenly listed as a PRS because it was incorrectly listed as an underground fuel oil tank by the Mound Plant UST Plan.

### **CONTAMINATION:**

There is no report of (nor suspicion of) a fuel spill at PRS 30.

### **READING ROOM REFERENCES:**

- 1) OU9, Site Scoping Report: Volume 12 - Site Summary Report, December 1994. (pages 5-7)
- 2) Mound Plant Underground Storage Tank Program Plan and Regulatory Status Review, November 1992. (pages 8-9)

### **PREPARED BY:**

Dean A. Buckner, Member of EG&G Technical Staff

**MOUND PLANT  
PRS 30  
Building 27 Propane Tank**

**RECOMMENDATION:**

Potential Release Site (PRS) 30 is the site north of Building 27 where a propane tank was located. This tank was mistakenly listed as a PRS because it was incorrectly listed as an underground fuel oil tank by the Mound Plant UST Plan.

There is no evidence of a release from this PRS. Therefore, NO FURTHER ASSESSMENT is recommended.

**CONCURRENCE:**

DOE/MEMP:

Arthur W. Kleinrath 3/18/97  
Arthur W. Kleinrath, Remedial Project Manager (date)

USEPA:

Timothy J. Fischer 3/18/97  
Timothy J. Fischer, Remedial Project Manager (date)

OEPA:

Brian K. Nickel 3/18/97  
Brian K. Nickel, Project Manager (date)

**SUMMARY OF COMMENTS AND RESPONSES:**

Comment period from \_\_\_\_\_ to \_\_\_\_\_

- No comments were received during the comment period.
- Comment responses can be found on page \_\_\_\_\_ of this package.

**REFERENCE MATERIAL**  
**PRS 30**

Environmental Restoration Program

**OPERABLE UNIT 9 SITE SCOPING REPORT:  
VOLUME 12 - SITE SUMMARY REPORT**

**MOUND PLANT  
MIAMISBURG, OHIO**

**December 1994**

**Final**

**U.S. Department of Energy  
Ohio Field Office**



**EG&G Mound Applied Technologies**

Description of History and Nature of Waste Handling						Hazardous Conditions and Incidents			Environmental Data		
No.	Site Name	Location	Status	Potential Hazardous Substances	Ref.	Releases	Media	Ref.	Analytes <sup>a</sup>	Results	Ref.
30	Building 27 Diesel Fuel Storage Tank (Tank 123) (AKA Building 27 Propane Tank)	G-6	Inactive	Tank is actually above ground	3				Not Applicable		
<del>31</del>	<del>Underground Sanitary Sewer Line G5</del>	<del>H-5</del>	<del>In service</del>	<del>Organic solvents</del>	<del>5, 18</del>			<del>7, 18</del>	<del>3, 4, 5, 6, 10, 11, 12, 14, 16</del>	<del>Tables B.6, B.7, and B.8</del>	<del>7</del>
32	Underground Sanitary Sewer Line G12	F-8 G-8		Plating solutions, Laboratory chemicals		Suspected, not confirmed	S	2, 7	3, 4, 5, 6, 10, 11, 12, 14, 16	Tables B.6, B.7, B.8, and B.9	7
33	Underground Sanitary Sewer Line G14 EAST	H-5 H-6									
34	Underground Sanitary Sewer Line G14 WEST	H-5 H-6		Nitric acid, Hydrochloric acid							
35	Underground Sanitary Sewer Lines G19 & G14	G-5		Methylene chloride							
36	Underground Sanitary Sewer Line G15	E-9		Strong acids and bases							
37	Building 51 Waste Solvent Storage Tank (Tank 220)	F-8	Historical	Organic solvents, Paints, Waste oils	3, 4, 5, 18	Tank Removed 1991, VOC residuals	S	4, 23	3, 4, 5, 6, 8	Tables B.6, B.7 and B.8	7, 23
	ng 51 Waste Incinerator	F-8	Historical	Contaminants listed under Bldg. 51 Waste Solvent Storage Tank (Tank 220)	4, 5		A	4	No Data		
	ng 51 Waste Incinerator Scrubber	F-8	Historical	Combustion products from Bldg. 51 Waste Incinerator	4, 5	Water released to plant drainage ditch	SW	4	No Data		
	Building 66 Lot	F-8	Grounds	Plutonium-238 from unknown source	6	Plutonium-238	S	6	13	Table B.1 RSS <sup>c</sup> Location S0323 (Appendix E in Ref. 6)	6

- 1 - Soil Gas Survey - Freon 11, Freon 113, Trans-1,2-Dichloroethylene, Cis-1,2-Dichloroethylene, 1,1,1-Trichloroethane, Perchloroethylene, Trichloroethylene, Toluene
- 2 - Gamma Spectroscopy - Thorium-228, -230, Cobalt-60, Cesium-137, Radium-224, -226, -228, Americium-241, Actinium-227, Bismuth-207, Bismuth-210m, Potassium-40
- 3 - Target Analyte List
- 4 - Target Compound List (VOC)
- 5 - Target Compound List (SVOC)
- 6 - Target Compound List (Pesticides/Polychlorinated Biphenyl)
- 7 - Dioxins/Furans
- 8 - Extractable Petroleum Hydrocarbons (EPH)/Total Petroleum Hydrocarbons (TPH)
- 9 - Lithium
- 10 - Nitrate/Nitrite
- 11 - Chloride
- 12 - Explosives
- 13 - Plutonium-238
- 14 - Plutonium-238, Thorium-232
- 15 - Cobalt-60, Cesium-137, Radium-226, Americium-241
- 16 - Tritium

#### Reference List

1. DOE 1986 "Phase I Installation Assessment Mound (DRAFT)."
2. DOE 1992a "Remedial Investigation/Feasibility Study, Operable Unit 9, Site-Wide Work Plan (Final)."
3. DOE 1992c "Mound Plant Underground Storage Tank Program Plan & Regulatory Status Review (Final)."
4. DOE 1993a "Site Scoping Report: Volume 7 - Waste Management (Final)."
5. EPA 1988a "Preliminary Review/Visual Site Inspection for RCRA Facility Assessment of Mound Plant."
6. DOE 1993d "Operable Unit 9, Site Scoping Report: Volume 3 - Radiological Site Survey (Final)."
7. DOE 1993c "Operable Unit 3, Miscellaneous Sites Limited Field Investigation Report."
8. DOE 1992d "Reconnaissance Sampling Report Decontamination & Decommissioning Areas, OU6, (Final)."
9. Fentiman 1990 "Characterization of Mound's Hazardous, Radioactive and Mixed Wastes."
10. DOE 1992f "Operable Unit 9, Site Scoping Report: Volume 11 - Spills and Response Actions (Final)."
11. Styron and Meyer 1981 "Potable Water Standards Project: Final Report."
12. DOE 1993b "Reconnaissance Sampling Report - Soil Gas Survey & Geophysical Investigations, Mound Plant Main Hill and SM/PP Hill (Final)."
13. DOE 1993d "Operable Unit 9, Site Scoping Report: Volume 3 - Radiological Site Survey (Final)."
14. DOE 1991b "Main Hill Seeps, Operable Unit 2, On-Scene Coordinator Report for CERCLA Section 104 Remedial Action, West Powerhouse PCB Site."
15. Halford 1990 "Results of South Pond Sampling."
16. DOE 1993e "Operable Unit 4, Special Canal Sampling Report, Miami Erie Canal."
17. DOE 1990 "Preliminary Results of Reconnaissance Magnetic Survey of Mound Plant Areas 2, 6, 7, and C."
18. DOE 1992a "Remedial Investigation/Feasibility Study, Operable Unit 9, Site-Wide Work Plan (Final)."
19. Rogers 1975 "Mound Laboratory Environmental Plutonium Study, 1974."
20. DOE 1992h "Ground Water and Seep Water Quality Data Report Through First Quarter, FY92."
21. Dames and Moore 1976 a, b "Potable Water Standards Project Mound Laboratory" and "Evaluation of the Buried Valley Aquifer Adjacent to Mound Laboratory."
22. DOE 1992i "Closure Report, Building 34 - Aviation Fuel Storage Tank."
23. DOE 1992j "Closure Report, Building 51 - Waste Storage Tank."
24. DOE 1994 "Operable Unit 1, Remedial Investigation Report."
25. EG&G 1994 "Active Underground Storage Tank Plan."

**ENVIRONMENTAL RESTORATION PROGRAM**

**MOUND PLANT UNDERGROUND STORAGE TANK PROGRAM PLAN  
AND REGULATORY STATUS REVIEW**

**MOUND PLANT  
MIAMISBURG, OHIO**

**November 1992**

**DEPARTMENT OF ENERGY  
ALBUQUERQUE OPERATIONS OFFICE  
ENVIRONMENTAL RESTORATION PROGRAM  
EG&G MOUND APPLIED TECHNOLOGIES  
FINAL (REVISION 0)**

**2.2.9. Building TF2: Diesel Fuel Storage Tank (Tank 122)**

Although reported in the Mound Plant UST Plan as an active underground diesel fuel storage tank (NUS, 1989), Mound Plant documentation and discussions with Mound Plant personnel indicate that this tank was actually an aboveground propane tank that formerly supplied an emergency generator (Andersen, 1990a; Burdg, 1991b). Although it has been recently reported that a heating fuel oil UST existed near Building TF2 in the 1950s to 1960s (Hill, 1992), unless additional information is found to confirm the existence of such a tank, the ER Program (FFA) will continue on the assumption that only a propane tank existed at that location. As a result, the tank and its location can be deleted as a concern as a UST.

**2.2.10. Building 27: Diesel Fuel Storage Tank (Tank 123)**

Although reported as an active underground diesel fuel storage tank in the Mound Plant UST Plan, Mound Plant documentation and discussions with Mound Plant personnel indicate that this tank was actually an aboveground propane tank that formerly supplied an emergency generator (Andersen, 1990a; Burdg, 1991b). The propane tank may also have been used to supply trailers in the area of Building 27 (Fischbein, 1992). As a result, the tank and its location can be deleted as a concern as a UST.

**2.2.11. Building T, Room T1: Cooling Water Sump (Tank 124)**

A 350-gallon, steel-lined concrete sump, designated on construction drawings as Sump #1, is used to collect single pass, non-contact cooling water from equipment cooling systems. The sump drains via pressurized piping to the Mound Plant stormwater system that discharges pursuant to CWA §402 (NPDES) (O.A.C. 3745-33). The tank is reported to have received only cooling water and, accordingly, is not subject to RCRA hazardous waste or UST regulations (Andersen, 1991e).

**2.2.12. Building T, Corridor 2: Sanitary Wastewater Sump (Tank 125)**

A 350-gallon, steel-lined concrete sump, designated on construction drawings as Sump #2, collects sanitary wastewater from restrooms. The sump drains via pressurized piping to sanitary waste treatment at the Building 57 New Sewage Disposal Area Building.

This tank is part of a wastewater treatment system that discharges subject to CWA §402 (NPDES) (O.A.C. 3745-33) regulations. Since this tank has received only sanitary waste, it is not subject to RCRA hazardous waste tank regulations nor 40 CFR Part 280 (