3001 0406150009

CH2M HILL
Mound, Inc.
1 Mound Road
P.O. Box 3030
Miamisburg, OH
45343-3030

CH2MHILL

ER-047/03
March 6, 2003

Mr. Richard B. Provencher, Director
Miamisburg Closure Project
U. S. Department of Energy
P. O. Box 66
Miamisburg, OH 45343-0066

ATTENTION: Robert S. Rothman

SUBJECT: Contract No. DE-AC24-03OH20152
PRS PACKAGES, FINAL

REFERENCE: Statement of Work Requirement 039 – PRS Documentation

Dear Mr. Provencher:

Rob Rothman from your office has approved the release of the following documents:

- PRS 282 Package, Final
- PRS 124 Package, Final
- PRS ~~430~~ 440 Package, Final
- PRS 437-439 Package, Final
- PRS 423-428 Package, Final

No document changes were required based on public comments. If you or members of your staff have any questions regarding the documents, or if additional support is needed, please contact Dave Rakel at extension 4203.

Sincerely,

Monte A. Williams
Deputy Project Manager, Environmental Restoration

MAW/KMA:jdg

Enclosures

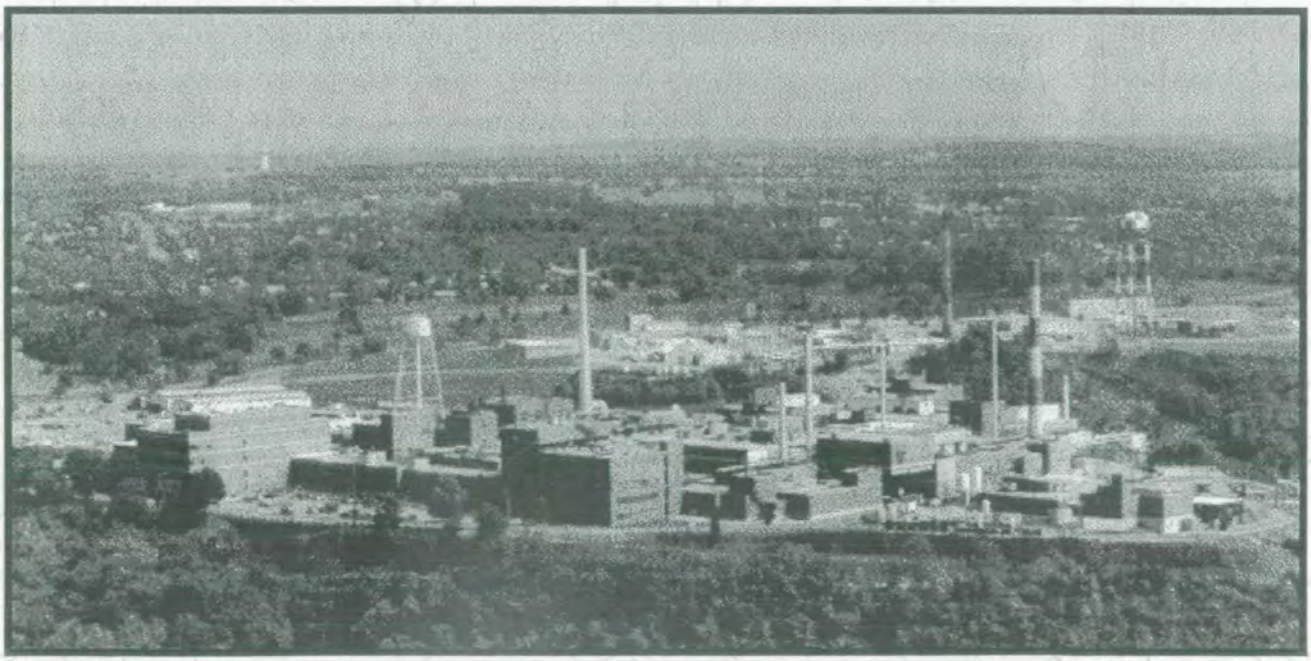
cc: David Seely, USEPA, (1) w/attachment
Brian Nickel, OEPA, (1) w/attachment
Ruth Vandegrift, ODH, (1) w/attachment
Paul Lucas, DOE/MCP, (1) w/attachment
Randy Tormey, DOE/OH, (1) w/attachment
Terry Tracy, DOE/HQ, (1) w/attachment
Dann Bird, MMCIC, (3) w/attachment
J. D. Bonfiglio, MESH, (1) w/attachment
John Fulton, CH2M HILL, w/o attachment
Monte Williams, CH2M HILL, (2) w/attachment
Dave Rakel, CH2M HILL, w/o attachment
Gene Valett, CH2M HILL, w/o attachment
Public Reading Room, (4) w/attachment
Admin Records, (2) w/attachment
DCC, (1) w/attachment

MOUND

Environmental
Restoration
Program

Miamisburg Closure Project
Potential Release Site Package
PRS 423, 424, 425, 426, 427, 428

Final
March 2003



The Mound Core Team
P.O. Box 66
Miamisburg, Ohio 45343-0066

January 2003

Mr. J. D. Bonfiglio
MESH Advisor
Paragon Associates
89224 Evan Court
Suite 11
Springboro, OH 45066

Dear Mr. Bonfiglio:

The Core Team, consisting of the U.S. Department of Energy Miamisburg Closure Project (DOE-MCP), U.S. Environmental Protection Agency (USEPA), and the Ohio Environmental Protection Agency (OEPA), appreciates your comments on the PRS 423-428, 437-439, and 440 Packages. Attached are our responses.

Should the responses to comments require additional detail, please contact Rob Rothman at (937) 865-3823 and we will gladly arrange a meeting or telephone conference.

Sincerely,

DOE/MCP: Robert S. Rothman, Remedial Project Manager — 2/27/03 date

USEPA: Timothy J. Fischer, Remedial Project Manager — 2/2/03 date

OEPA: Brian K. Nickel, Project Manager — 1/22/03 date

TO: Sharon Cowdrey, MESH **cc:** Paul Lucas, DOE
FROM: J.D. Bonfiglio, MESH
DATE: 11/28/02
SUBJECT: THREE PUBLIC REVIEW DRAFTS ISSUED NOV. 2002 COVERING 10 PRS's

- PRS 423 Through 428 (6)
- PRS 437 Through 439 (3)
- PRS 440 (1)

- PRS 423 – 428 (6) were main hill underground lines running from "H" Building to "WD" Building. Appropriately named "UGLYS" (underground lines) the 6 PRS's comprise about 1100 linear feet of waste lines. These carried radioactive wastes of multiple RADS. At least 8 of these reported in Table 1 had maximum soil analysis values above the guideline value (GV) 10^{-6}.

  These are as follows:

CONTAMINANT	MAXIMUM (pCi/g)	GUIDELINE 10^{-6} VALUE (pCi/g)
COBALT 60	5.01	0.10
CESIUM 137 + D	0.62	0.46
RADIUM 226 + D	30.80	0.14
ACTINIUM 227 + D	9.68	1.00
THORIUM 230 + D	85.12	0.13
THORIUM 232 + D	90.43	0.11
PLUTONIUM 238	329,100	$55(10^{-5})$
AMERICIUM 241	711.40	4.95

  It is not surprising to see such high values within these waste line PRS's. The Core Team on 7/18/01 signed a response action recommendation, but it has taken until 11/02 (16 months later) for this Public Review Draft to be issued. Apparently more stringent priorities e.g. PRS 66 etc. precluded earlier resolution. The bulk of this document (and the 2 to follow) contain many appendix entries with reference data of many years earlier.

  What this report lacks is when these 6 PRS's will be remediated. Even a hint is better than nothing. Can we put some date on this?

- PRS 437-439 (3) are similar waste lines to the previous except these are lines from manhole 20.
  To "WD" Building. These "UGLY" segments cover about 450 linear feet of waste lines. Manhole 20 first went to /through "SW" Building enroute to "WD" Building. This time 4 contaminants of concern are identified.

CONTAMINANT	MAXIMUM DETECTED	GUIDELINE CRITERIA
BERYLLIUM	0.78 mg/kg	0.70 mg/kg (10^{-6})
PU238	225 pCi/g	55 pCi/g (10^{-5})
TH232 + D	2.2 pCi/g	0.07 pCi/g (10^{-6})
TRITIUM	324996 pCi/g	20000 pCi/L (MCL)

NOTE: Consistency in full names and 10^{-5} or 10^{-6} etc. Would be better.

As with the previous Public Review Draft (6 PRS's), the Core Team again signed off on 7/18/01 with a response action recommendation. Again, when or tentative timing would be helpful.

- PRS 440 is a waste line segment of nearly 350 linear from "SW" Building to "WD" Building. Hot wastes from "SW" Building were discharged into PRS 440. This time contaminants of concern include 3 as shown.

CONTAMINANT	MAXIMUM DETECTED	GUIDELINE CRITERIA
BERYLLIUM*	1.2 mg/kg	0.70 mg/kg
PU238*	225 pCi/g	55 pCi/g
TH232 + D*	5.7 pCi/g	0.07 pCi/g

NOTE: See previous note under PRS 437-9 comments, significant digits should be used [1.20 0.70 etc.]*
[5.70 0.07 etc.].

As with the two previous PRS Public Review Drafts of November 2002, the Core Team signed on 7/18/01 with a response action recommendation and no hint as to the schedule to do so. If a date is unknown then a date to set a date should be provided for tracking and follow-up. It is not good to leave the "Public" dangling and is the dark as to which month/ or year the RA will be begun.

James D. Bonfiglio
11/28/02

Response
All three comments seek information about the schedule for performing these removals. The Action Memorandum, currently in review by the regulators, shows these removals performed in four segments. The first would start in the first half of FY03 and the last would end in the second half of FY04. After the regulators approve it, the Action Memorandum will be available for public review. As the removal is performed, updates will be provided at the MAC/MRC meetings.

The Mound Core Team
P.O. Box 66
Miamisburg, Ohio 45343-0066

January 2003

Mr. Daniel Bird, AICP
Planning Manager
Miamisburg Mound Community Improvement Corporation
720 Mound Road
COS Bldg. 4221
Miamisburg, Ohio 45342-6714

Dear Mr. Bird:

The Core Team, consisting of the U.S. Department of Energy Miamisburg Closure Project (DOE-MCP), U.S. Environmental Protection Agency (USEPA), and the Ohio Environmental Protection Agency (OEPA), appreciates your comments on the PRS 423-428, 437-439, and 440 Packages. Attached are our responses.

Should the response to comments require additional detail, please contact Rob Rothman at (937) 865-3823 and we will gladly arrange a meeting or telephone conference.

Sincerely,

DOE/MCP: 2/27/03
Robert S. Rothman, Remedial Project Manager date

USEPA: 2/7/03
Timothy J. Fischer, Remedial Project Manager date

OEPA: 1/22/03
Brian K. Nickel, Project Manager date

Response to Public Comments

from MMICC
on PRS 423-428 Public Review Draft Package
on PRS 437-439 Public Review Draft Package
on PR 440 Public Review Draft Package

Comment 1. From our review of the above mentioned PRS Data Packages, MMCIC concurs that a response action is necessary for these PRS. MMCIC would like to request a copy of the work plan for review when it becomes available.

Response 1. A copy of the requested work plan will be provided for your information after it is finalized.

Comment 2. The PRS data packages were not specific in the response action to be taken for the cleanup of these underground waste lines (UGLys). MMCIC wants to confirm that the cleanup action is appropriate and complete, which would include not only the piping system, but also the soils surrounding the pipes. If the pipes are abandoned in place, the verification sampling must confirm there is no residual contamination, including soils contamination around the pipes.

Comment 3. If any of the lines are to be integrated into the City of Miamisburg's treatment system, the lines and the soils around the pipes must be verified as being free of contamination.

Response 2 & 3. MCP will continue to pursue total compliance with the CERCLA cleanup criteria. This applies to piping as well as soil. We will keep you informed as we move forward and develop the action for the underground waste lines.

Comment 4. It is MMCIC's understanding that the area will be restored to a natural state in accordance with the Mound Reuse Plan.

Response 4. MCP recognizes and fully intends to meet our obligations under The Mound Reuse Plan.

PRS 423, 424, 425, 426, 427, 428

REV	DESCRIPTION	DATE
WORKING DRAFT		29 May 2001
DRAFT	DOE review on June 11, 2001. Adjustments incorporated. Distribute for Core Team review for July binning.	11 June 2001
DRAFT PROPOSED FINAL	Revised in response to comments from OEPA dated July 17, 2001. Incorporated signed recommendation (RA) page.	October 2002
PUBLIC REVIEW DRAFT	No changes from Draft Proposed Final	November 2002
FINAL	No changes as a result of public review/comment.	March 2003

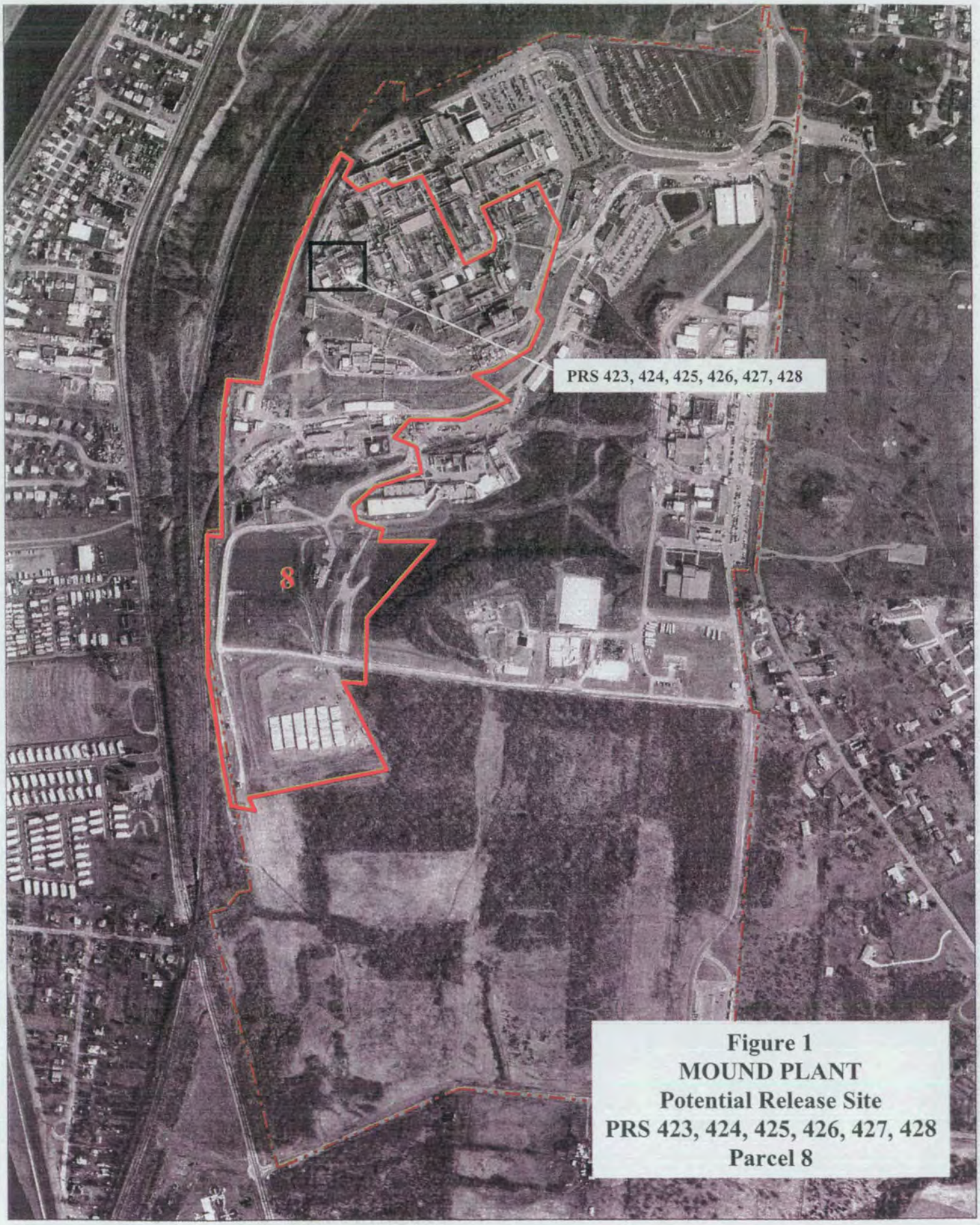
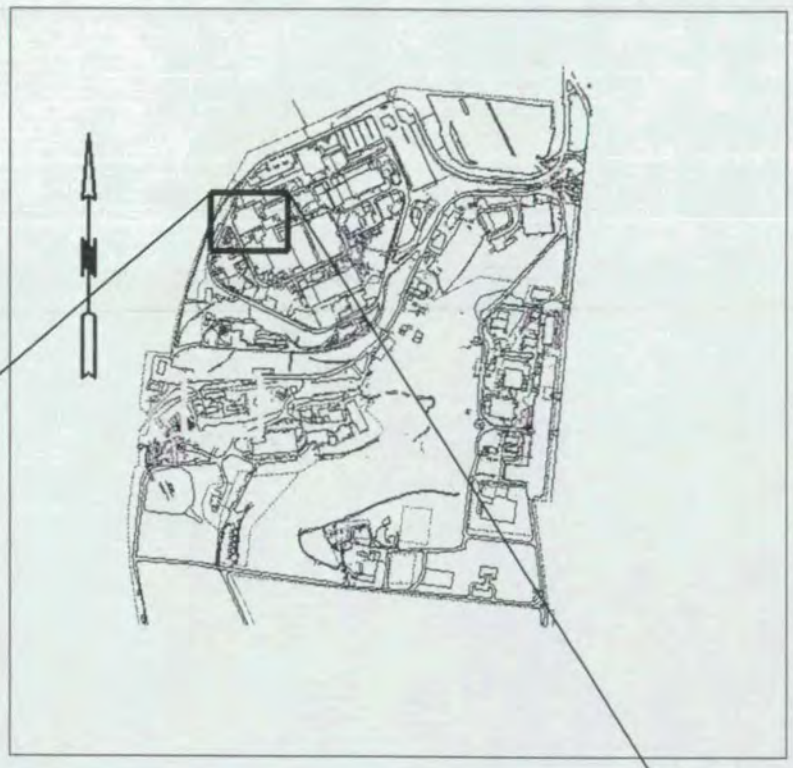


Figure 1
MOUND PLANT
Potential Release Site
PRS 423, 424, 425, 426, 427, 428
Parcel 8

Figure 2
Mound Plant
PRS 423,424,425,426,427,428
Main Hill Underground Lines:
H Building to WD Building

On the map below:
- PRS number and location shown in black
- Fencing shown in red
- Elevation contours shown in brown
- Other PRS's shown in blue



PRS 423, 424, 425, 426, 427, 428

Main Hill Underground Lines

H Building to WD Building

PRS HISTORY:

The majority of Mound Plant Mail Hill Underground Waste Lines (Underground Lines/UGLys) were originally grouped as one Potential Release Site, PRS 122. The document, *Operable Unit 9 Site Scoping Report: Volume 12 – Site Summary Report* (Reference A), defines PRS 122 to include waste lines from B, H, R, and SW Buildings.

In preparation for review and binning of PRS 122, it became obvious that the grouping of almost 4,000 feet of such line under one PRS was not the most opportune position from which to begin the evaluation process. It was decided that the UGLys could be better studied and remediation decisions made if the lines were defined to exist in segments. PRS 122 was segmented into PRSs 423 through 440.

PRSs 423, 424, 425, 426, 427, and 428 identify one group of UGLy segments associated with H Building operations. Approximately 1,100 linear feet of waste line is addressed in this PRS group.

BACKGROUND:

Potential Release Sites 423 through 428 identify underground line segments that served to carry radioactively contaminated wastes from H Building (environmental laboratories, laundry, change rooms) operations enroute to the Waste Disposal (WD) Building. Note Figures 1, 2, and 3. Wastes from operations in H Building were directed to drains and a sump in room H-133, which discharged these wastes into the subject PRSs. H Building sumps are addressed, in part, by other Potential Release Sites (PRS 210 and PRS 337) and are not the subject of this data package other than the contaminants carried.

PRSs 423 through 428 carried wastes from the drains at the west side of H Building, west and south to WD Building. Reference B provides a physical description of the subject potential release sites.

Figure 3. Hot Waste Lines: H Building to WD Building

CONTAMINATION:

H Building operations provide insight into the contaminants potentially resident in UGLy PRSs 423 through 428. Note References C and D. Reference D suggests that the primary nuclide contaminants of concern are plutonium-238, polonium-210, and actinium-227. A briefing presentation (Reference E) given by BWXT of Ohio Soils Project personnel indicates that plutonium-238 is the contaminant of concern. Data provided in this briefing presentation for the Hot Laundry Drain (Sludge) is tabulated in Table 1.

Table 1: Soil Analysis Report, H Building, Hot Laundry Drain (Sludge)[E]

Contaminant	Maximum Level (pCi/g)	Guideline * Value (10^{-6}) (pCi/g)	Background Value (pCi/g)
Cobalt-60	5.01	0.10	NC
Cesium-137 (+D)	0.62	0.46	0.42
Radium-226 (+D)	30.80	0.14	2.0
Actinium-227 (+D)	9.68	1.0	NA
Thorium-230 (+D)	85.12	0.13	1.9
Thorium-232 (+D)	90.43	0.11	1.4
Plutonium-238	329,100	55 (10^{-5})	0.13
Americium-241	711.40	4.95	ND

*Construction Worker
NA = Not Applicable
NC = Not Calculated
ND = Not Detected

Building H is to be demolished and an Action Memorandum has been generated (Reference F). Table 2.1 of this Action Memorandum illuminates contamination concerns potentially affecting the subject potential release sites. The sump in Room H-133 is noted. PRS 124 provides additional information (Reference G.) Past sampling results for PRS 423-428 are presented in Reference H.

READING ROOM REFERENCES:

A) *Operable Unit 9 Site Scoping Report: Volume 12 - Site Summary Report, Final, December 1994* (Excerpt)

C) *Mound Facility Physical Characterization (MLM-3791)*, December 1, 1993 (Excerpt)

D) *Mound Technical Manual, MD-22153, Issue 2, Mound site Radionuclides by Location* (Excerpt)

D) *Mound Technical Manual, MD-22153, Issue 2, Mound site Radionuclides by Location* (Excerpt)

F) *Action Memorandum/Engineering Analysis, Removal Action, Building H Hot Laundry*, Mound Plant, Miamisburg, Ohio, January 1999, Final

G) Potential Release Site (PRS) Data Package 124

OTHER REFERENCES:

B) Cost Estimate Assumptions and Ground Rules, B&W Services, Inc., June 2000

E) Technical Presentation, Main Hill Underground Lines, PRS 122-124, June 2000 (Excerpt)

H) Sampling Information from GIS, September 2002

PREPARED BY:

Karen M. Arthur, BWXT of Ohio Technical Staff
Mary Beth England, BWXT of Ohio Technical Staff
Joseph C. Geneczko, BWXT of Ohio Technical Staff
Steven S. Pawel, BWXT of Ohio Technical Staff

REVIEWED BY:

Richard Neff, Department of Energy/MEMP
David A. Rakel, BWXT of Ohio Technical Staff

HISTORICAL/TECHNICAL REVIEWER

Dan Carfagno, Contractor to Ohio Environmental Protection Agency

MOUND PLANT
PRS #423, 424, 425, 426, 427, 428
MAIN HILL UNDERGROUND LINES
H Building to WD Building

RECOMMENDATION:

PRS 423, 424, 425, 426, 427, and 428 were identified because the underground line segments carried radioactively contaminated effluent from H Building operations to the Waste Disposal building (WD).

Therefore, a RESPONSE ACTION is recommended for PRS 423, 424, 425, 426, 427, and 428.

CONCURRENCE:

DOE/MEMP: _____ 7/18/01
Robert S. Rothman, Remedial Project Manager (date)

USEPA: Timothy J. Fischer 7/18/01
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: _____ 7/18/01
Brian K. Nickel, Project Manager (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from Nov. 13, 2002 to Dec. 13, 2002

☐ No comments were received during the comment period.

☑ Comment responses can be found on the First page _____ of this package.

R

REFERENCE MATERIAL FOR PRSs 423, 424, 425, 426, 427, and 428

Reference A

DUPLICATE
Classification Code: 29-01-01-07-12
Accession No. 9503280015

ENVIRONMENTAL RESTORATION PROGRAM

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

MOUND PLANT
MIAMISBURG, OHIO

December 1994

U.S. DEPARTMENT OF ENERGY
OHIO FIELD OFFICE

ENVIRONMENTAL RESTORATION PROGRAM
EG&G MOUND APPLIED TECHNOLOGIES

FINAL

CONTENTS

1. INTRODUCTION 1
1.1. SCOPE OF REPORT 3
1.2. OVERVIEW OF MOUND PLANT SCOPING PROCESS 4
1.3. OVERVIEW OF OTHER DOCUMENTS RELEVANT TO SCOPING PROCESS 6

2. IDENTIFICATION OF POTENTIAL RELEASE SITES 8
2.1. DOE COMPREHENSIVE ENVIRONMENTAL ASSESSMENT AND RESPONSE PROGRAM 13
2.2. EPA DRAFT RCRA FACILITIES ASSESSMENT (RFA) 14
2.3. SITE SCOPING REPORT: VOLUME 7—WASTE MANAGEMENT 16
2.4. SITE SCOPING REPORT: VOLUME 3—RADIOLOGICAL SITE SURVEY 16
2.5. MOUND PLANT UNDERGROUND STORAGE TANK PROGRAM PLAN AND REGULATORY STATUS REVIEW 16
2.6. RECONNAISSANCE SAMPLING REPORT—SOIL GAS SURVEY AND GEOPHYSICAL INVESTIGATIONS 17
2.7. OPERABLE UNIT 3, MISCELLANEOUS SITES LIMITED FIELD INVESTIGATION REPORT 17
2.8. OPERABLE UNIT SITE-WIDE RI WORK PLAN 19
2.9. MOUND PLANT ACTIVE UNDERGROUND STORAGE TANK PLAN 19

3. ASSIGNMENT OF POTENTIAL RELEASE SITES TO REGULATORY AUTHORITIES 20
3.1. REGULATORY FRAMEWORK FOR EVALUATION OF POTENTIAL RELEASE SITES . . . 20
3.1.1. RCRA Hazardous Wastes 20
3.1.2. RCRA Underground Tanks 23
3.1.3. CERCLA 24
3.1.4. AEA/CERCLA Integration 25
3.1.5. Clean Water Act 26
3.1.6. Clean Air Act 30
3.1.7. Safe Drinking Water Act 33
3.2. ASSIGNMENT OF POTENTIAL RELEASE SITES TO REGULATORY AUTHORITIES . . . 37
3.3. POTENTIAL RELEASE SITES RECOMMENDED FOR NO FURTHER ACTION 42

4. SITE CONCEPTUAL MODEL 43

5. CONCLUSIONS 46

6. REFERENCES 60

PLATE 1 POTENTIAL RELEASE SITES

APPENDIX A POTENTIAL RELEASE SITES DATA
APPENDIX B SUMMARIES OF ENVIRONMENTAL DATA
APPENDIX C D&D/RA INTER PROGRAM AGREEMENT (APRIL 26, 1991)

FIGURES

1.1. Location of Mound Plant, Miamisburg, Ohio 2
3.1. Flow diagram illustrating ER Program site assignment process 40

4.1. Mound Plant site conceptual model 44
5.1. Mound Plant operable unit boundaries 52

TABLES

II.1. List of Sites in the Mound Plant Environmental Restoration Program by Operable Unit Cross-Referenced to the RCRA Facilities Assessment and CEARP Phase I 9
II.2. Operable Unit 3 Limited Field Investigation Proposed Disposition for Investigation Sites 18
III.1. Regulatory Authorities for Release Response 39
V.1. Potential Release Sites Recommended for Inclusion in the ER Program, Listed by Operable Unit 47
V.2. Potential Release Sites Recommended for Administration by Mound Operations and Maintenance 53
V.3. Potential Release Sites Currently in D&D Program and Sites Recommended for Inclusion in D&D Programs 61
V.4. Potential Release Sites Not Recommended for ER, D&D, or Operational Programs 65

ACRONYMS

AEA	Atomic Energy Act of 1954
AL	U. S. Department of Energy Albuquerque Operations Office
AOC	area of concern
ARAR	applicable or relevant and appropriate requirement
AUST	active underground storage tank
CAA	Clean Air Act
CEARP	Comprehensive Environmental Assessment and Response Program
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CWA	Clean Water Act
D&D	Decontamination and Decommissioning
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-To-Know Act of 1986 (also known as SARA Title III)
ER	Environmental Restoration (Program)
FFA	Federal Facility Agreement
FS	feasibility study
HRS	Hazard Ranking System, CERCLA
HSWA	Hazardous and Solid Waste Amendments of 1984
HWMU	hazardous waste management unit
LFI	limited field investigation
MCL	maximum contaminant level
MCLG	maximum contaminant level goal
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NFA	no further action
NPDES	National Pollutants Discharge Elimination System
NPL	National Priorities List
OEPA	Ohio Environmental Protection Agency
PA	preliminary assessment
PBR	permit by rule
POTW	publicly owned treatment works
PR	preliminary review
PRS	potential release site
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RI	remedial investigation
SARA	Superfund Amendments and Reauthorization Act
SDWA	Safe Drinking Water Act
SI	site inspection
SMCL	secondary maximum contaminant level
SWMU	solid waste management unit
UIC	underground injection control
UST	underground storage tank
VOC	volatile organic compound
VSI	visual site inspection
WHP	Well Head Protection (program)

ACKNOWLEDGMENTS

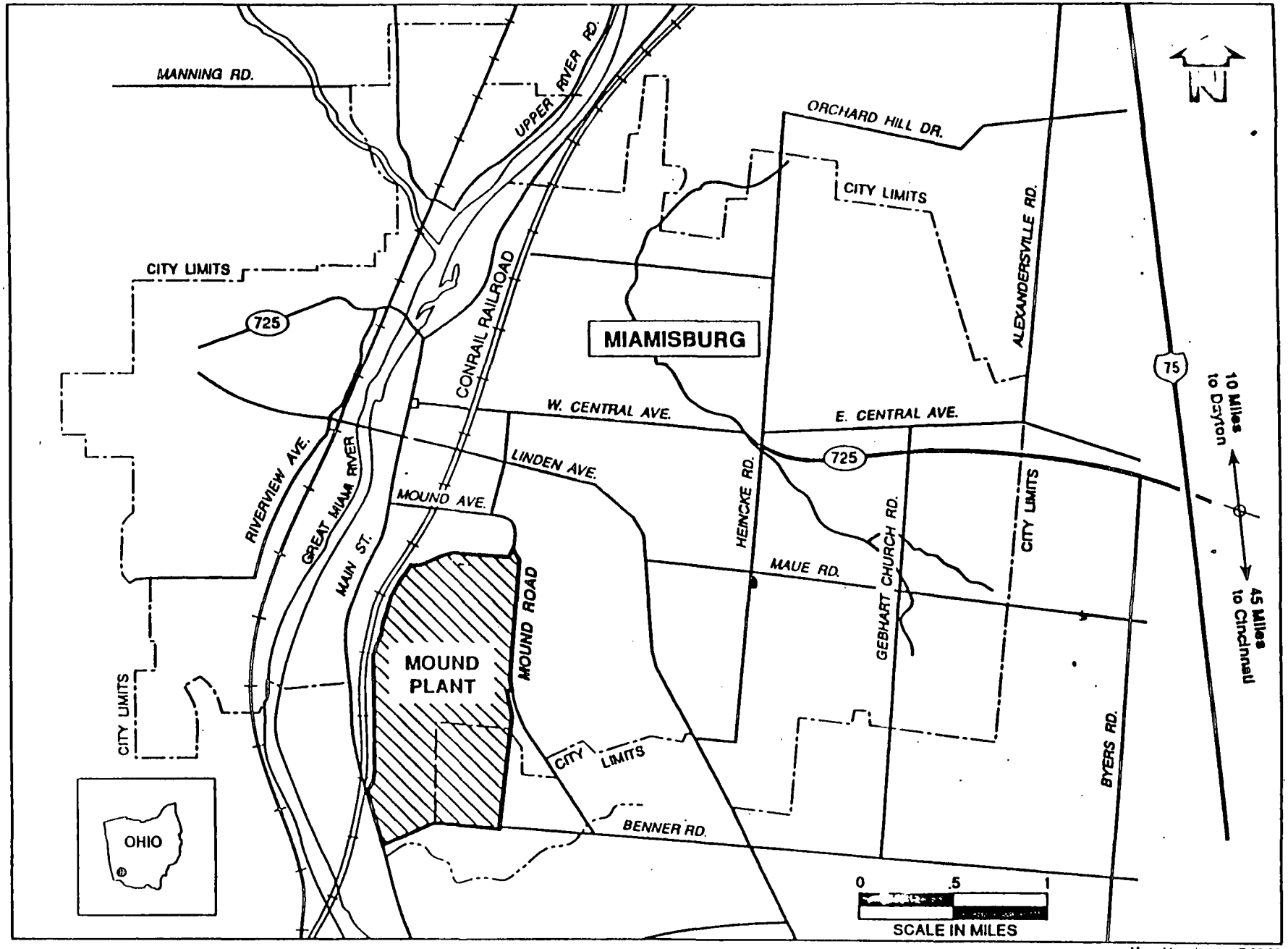
This report was prepared by Roy. F. Weston, Inc., Albuquerque, New Mexico, under Basic Ordering Agreement 24251 with EG&G Mound Applied Technologies, Miamisburg, Ohio. The principal authors of this document were Bill Criswell and Kris Anderson. Members of the report team included Michael Byrd, Frank Kabot, Paul Darr, and Randy Gabriel. Senior review was provided by John Price and Joan Dunn. Graphics, technical editing, and word processing were provided by the Albuquerque office. Special acknowledgment is given to EG&G Mound Applied Technologies personnel who contributed information regarding status of sites and schedules of operation including Dan Carfagno, Larry Klingler, Carol Anderson, Billy Farmer, and Bill Davis; Dennis Gault provided a thorough review of the map and Tables A.1 and A.2. Dick Neff of the Dayton Area Office provided a thorough review of technical content and policy descriptions. This report was revised in response to comments by EPA and Ohio EPA.

1. INTRODUCTION

The U.S. Department of Energy (DOE) Mound Plant, Miamisburg, Ohio (Figure 1.1), was placed on the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, also known as Superfund) National Priorities List (NPL) on November 21, 1989 (54 Federal Register 48184). The placement of the Mound Plant on the NPL occurred as a consequence of historic disposal practices and releases of contaminants to the environment. The Mound Plant received an overall Hazard Ranking System (HRS) score of 34.61, which exceeded the threshold (28.51) for NPL listing (40 CFR 300, Appendix A). Pursuant to its NPL status, the DOE signed a CERCLA Section 120 Federal Facility Agreement (FFA) with the U.S. Environmental Protection Agency (EPA) that became effective October 11, 1990 (Administrative Docket #VW-'90-C-075). The Ohio EPA (OEPA) became a signatory to the agreement in July 1993. The terms of the FFA require that the DOE develop and implement remedial investigations (RIs) and feasibility studies (FSs) and conduct interim remedial actions in order to ensure that environmental impacts associated with past and present activities at the site are thoroughly investigated and appropriate action is taken to protect the public health, welfare, and the environment.

The DOE Albuquerque Operations Office (AL) established the Environmental Restoration (ER) Program in 1984 to collect and assess environmental data in order to develop a conceptual site model, to assess both the nature and extent of contamination, and to identify potential exposure pathways and potential human and environmental receptors. In order to provide the EPA with sufficient information and data gathered during these previous investigations, a multivolume scoping report, providing background information, has been prepared. The Site Scoping Report provides descriptions and summaries of the current conditions and characteristics of Mound Plant and consists of the following volumes:

1. Groundwater Data: February 1987 - July 1990 with Addendum
2. Geologic Log and Well Information Report
2. Addendum - Stratigraphic and Lithologic Logs
3. Radiological Site Survey
4. Engineering Map Series
5. Topographic Map Series
6. Photo History
7. Waste Management
8. Environmental Monitoring Data
8. Addendum - Vegetation and Foodstuff
9. Annotated Bibliography
10. Permits and Enforcement Actions
11. Spills and Response Actions
12. Site Summary Report



Mound location map/7-26-93

Figure 1.1. Location of Mound Plant, Miamisburg, Ohio.

1.1. SCOPE OF REPORT

This report is intended as a summary document to complete the Site scoping process for Mound Plant as described in Section 1 of Attachment 1 to the FFA. It includes 1) summaries of the previous 11 volumes of the scoping report; 2) a comprehensive summary of the potential release sites identified through the scoping process, including summaries of whether releases are known and the environmental data available for each site; 3) identification of the regulated units and the regulatory authorities responsible for operation, contaminant release, and spill response and closure; 4) recommendations of potential release sites that require no further action; and 5) a review of the Site conceptual model. Plate 1 provides a map of the Site and the potential release sites. References to other documents that contain background information, Site characteristics, or data that may assist in assessing the known or suspected nature and extent of contamination, and potential exposure pathways and potential human and environmental receptors are provided as appropriate.

The term potential release site (PRS) is an informal term not defined by regulation or the FFA. The term is defined, for the purposes of this report, as a potential area of concern in which knowledge of historic or current use indicates that the site may be considered a solid waste management unit (SWMU) or has been identified as an area with potential releases of concern. This definition is consistent with informal terminology used in the FFA and the Resource Conservation and Recovery Act (RCRA) Facility Assessment Guidance (EPA 1986).

The identification of a PRS in this report does not necessarily mean that the site poses a threat to human health or the environment. The tabulation of data for all PRSs simply provides an explicit means of identifying and evaluating all potential releases of concern, the need for further action and the identification of the authority responsible for action. Recommendations for no further action for those PRSs that pose no threat to human health or the environment are included in this report. In accordance with the FFA, the decision for no further action will be documented in subsequent RI/FS work plans or other documents, as appropriate.

Section 2 of this report describes a comprehensive tabulation of potential release sites (Appendix A). This tabulation is compiled from the list of scoping documents and reports of other response actions. Summaries of the PRS identification processes are included. To facilitate cross-reference and identification, each PRS is numbered and the numbers are used on Plate 1 for site location.

Section 3 of this report discusses the interaction of appropriate responses of the Mound Plant FFA and other regulatory entities. As the Mound Plant is an operational facility, many PRSs are currently active and operational. Many are regulated under the RCRA, the Clean Water Act (CWA) or the Clean Air Act

(CAA). Mound Plant, however, conducts its routine operations under the Atomic Energy Act of 1954 (AEA). One of the goals of this report is to ensure that all PRSs are properly evaluated for their inclusion or omission from the ER Program.

1.2. OVERVIEW OF MOUND PLANT SCOPING PROCESS

Prior to signing the FFA, the DOE collected and interpreted data to develop a Site conceptual model to assess both the nature and extent of contamination and to identify potential exposure pathways and potential human and environmental receptors. The multivolume scoping report, compiled under the guidance of the FFA Statement of Work, provides descriptions and summaries of current conditions and characteristics of the Mound Plant Site. The volumes are arranged to provide a systematic data set as follows:

- Volume 1 Groundwater Data: February 1987 - July 1990 (Final February 1992). Provides a tabulation of laboratory reports of groundwater sample analyses from ER Program monitoring wells, plant supply wells and groundwater seeps collected from February 1987 to July 1990, before the FFA became effective.

- Volume 2 Geologic Log and Well Information Report (Final May 1992). Provides a location map, and construction and borehole lithology details for monitoring and production wells on and adjacent to Mound Plant that have been used to collect environmental samples. Selected residential and municipal wells are also included where appropriate.

- Volume 2 Addendum Stratigraphic and Lithologic Logs (Final June 1992). Provides stratigraphic and lithologic information including borehole logs and borehole location maps compiled from plant engineering, planning, and foundation studies and contaminant infiltration and movement investigations.

- Volume 3 Radiological Site Survey (Final June 1993). Provides a summary and tabulation of available radiological data collected at Mound Plant with emphasis on the extensive radiological characterization investigation conducted by Mound Plant during the Site Survey Project (Stought et al. 1988).

- Volume 4 Engineering Map Series (Final February 1992). Provides a series of engineering maps of the Site, including plant utilities, potable water and condensate cooling lines, process piping and tanks, municipal utilities adjacent to the plant, surrounding land uses and easements, adjacent property owners, and copies of the boundary survey conducted in 1982. All maps were reproduced at a scale of 1 inch = 200 ft and use the Ohio State Plane coordinate system.

- Volume 5 Topographic Map Series (Final February 1992). Provides a series of topographic maps of the Mound Plant and adjacent areas, including a topographic map with 2-ft contours, a map of surface water features, a digitized topographic map of the northern part of the site before the plant was constructed in 1946, and a contour map with 10-ft contours that estimates the amounts of cut and fill performed from 1946 to 1986, principally along the plant drainage ditch. All maps were reproduced at a scale of 1 inch = 200 ft and use the Ohio State Plane coordinate system.

- Volume 6 Photo History Report (Final February 1992). Provides a series of interpretive maps compiled from historical aerial photos of Mound Plant that span the years 1959 to 1981. Maps of the upper and lower valley areas were compiled for 1959, 1964, 1968, 1973, 1975, 1979, and 1981, as these areas were known to have been used for waste disposal and experienced significant changes in morphology and terrain elevation.

- Volume 7 Waste Management Report (Final February 1993). Provides a description of the history of ownership and operation of the plant with emphasis on the generation, treatment, storage, and disposal of hazardous wastes through the perspective of the major programs and projects at the plant. Also provides a summary list of the hazardous substances generated through process information. This tabulation was used to compile the list of analytical parameters for the Operable Unit 9 RI/FS (DOE 1993a).

- Volume 8 Environmental Monitoring Data: 1976-1989 (Final February 1992). Provides summaries and tabulations of environmental sampling conducted by Mound Plant as part of the ongoing environmental surveillance program, the Potable Water Standards Project (Dames and Moore 1976a,b) and the Plutonium Soil Inventory Program (MRC 1977). Analytical data included tritium, plutonium-238, uranium-233, uranium-234, and uranium-238 in surface water and silt samples collected from the Great Miami River from 1974 to 1989, tritium in groundwater from the Buried Valley aquifer from 1975 to 1990, and plutonium-238 in regional soils measured in 1977.

- Volume 8 Addendum Vegetation and Foodstuff (Draft March 1994). Provides summary of analytical data on tritium and plutonium-238 concentrations in vegetation (grass) and foodstuff (fish, vegetables and milk) for the years 1972 to 1991. Data was collected and reported as part of the Mound Plant environmental monitoring and surveillance program required by DOE.

- Volume 9 Annotated Bibliography (Final February 1993). Provides an annotated list of reports prepared for the Site prior to the signing of the FFA. The bibliography includes reports prepared by government agencies, subcontractors, scientific journal articles, and maps and drawings that may be relevant to the preparation of the RI/FS. Reports published or compiled since the effective date of the FFA are beyond the scope of Volume 9.

- Volume 10 Permits and Enforcement Actions (Final May 1992). Provides a summary of past and present permits and registrations requested and received by Mound Plant, as well as a summary of enforcement actions. As a government-owned, contractor-operated facility, Mound Plant must operate not only in compliance with Executive Orders and Orders of the DOE, but also with federal and state statutes and regulations, and corporate policies. This report includes only those activities relating to compliance with federal, state, and county environmental regulations and statutes. Conditions of discharges and other permit limitations were beyond the scope of the report. Copies of permits of interest were copied in the appendix of the report.

- Volume 11 Spills and Response Actions (Final March 1992). Provides summaries of past product and hazardous substance spills, including amounts and locations and the response actions conducted. Data were compiled from records and incident reports of the Mound Plant safety office. Limited data were also available from the health physics office. Only incidents that resulted in a spill or an environmental release are included in this report. Laboratory and tabletop accidents, releases that were entirely contained within buildings, and personal injuries and radiation or hazardous substance exposures that did not apparently result in an environmental release were beyond the scope of this report. Summaries of response actions conducted by the EPA and OEPA are also included.

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[a]	Results	Ref
118	M Building Soils	E-7	Grounds	Copper cyanide, Silver cyanide Machine oils, Solvents	4	Oils, Copper cyanide, Silver cyanide	S	10	1 14	SGS[b] Table B.4 Locations 1050, 1051, 1082 Table B.9 RSS[c] Locations S0162, S0163, S0252 (Appendix E in Ref. 6)	12 6
119	Room M-38 Metal Plating Rinse Water Sump (Tank 225)	E-7	Surplus	Rinse waters from metal plating operations. Possible contaminants include nickel, cadmium, silver, gold, manganese, cyanide, and aluminum. Sodium hydroxide solution Potassium permanganate	3, 4	None Suspected			No Data		
120	Room M-108 Metal Plating Rinse Water Tank (Tank 119)	E-7	In service	Rinse waters from metal plating operations. copper, gold, silver, nickel, aluminum, and uranium	3, 4	Silver cyanide	SW	10	No Data		
121	Vapor Degreasers	E-7	In service	Perclene D (perchloroethylene)	4, 5, 18	None Suspected			No Data		
122	Underground Radioactive Waste Lines (Main Hill)	E-6 F-6	Inactive	Alpha wastes from SW Bldg., R Bldg., and H Bldg. Wastewater from B Building Plutonium-238, Cobalt-60	4, 18	Suspected	S	4, 10	No Data		
123	Area 5, Radioactive Waste Line Break	F-6 F-7	Grounds	Cobalt-60, Cesium-137, Plutonium-238	1, 5, 18	Cobalt-60	S	1, 18	2, 14, 16	Table B.1 (Table III.3 in Ref. 6)	6
124	Building 48 Hillside	F-6	Inactive	Plutonium-238		Plutonium-238	S	6	14	Table B.1	6
125	Underground Sanitary Sewer Line G24	F-6	In service	Organic solvents, Plating Solutions, Laboratory chemicals, Nitric acid, Hydrochloric acid, Methylene chloride, Strong acids and bases		Suspected	S	5, 18	3, 4, 5, 6, 14, 16	Tables B.6, B.7, and B.8	7
126	Building 28 Solvent Storage Area	E-8	Grounds	Organic solvents (including alcohol, methylene chloride, and acetone)	4, 5, 9, 18	Suspected	S	4	1	SGS[b] Table B.4 Location 1054	12

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[a]	Results	Ref
209	Building 62 Stack Deluge Tank (Tank 1)	E-6	In service	None suspected (never used)	3	None Suspected			No Data		
210	Room H-131 Laundry Water Tank (Tank 2)	E-6	In service	Alpha wastewater from laundry operations. Possible contaminants include Pu-238, Th-230,-232,-234, tritium, Ra-226,-228, and Ac-227. Ethylene glycol monbutyl ether, Sodium hydroxide, Ammonium bicarbonate, Sodium hexametaphosphate	3, 4	None Suspected			No Data		
211	A Building Decontamination Shower Water Tank (Tank 28)	E-6	In service	Wastewater from medical decontamination shower. Plutonium-238 and -239, Thorium-228, -230, and -232, Radium-226 and -228, and tritium	3	None Suspected			No Data		
212	A Building Decontamination Shower Water Tank (Tank 29)	E-6	In service	Wastewater from medical decontamination shower. Plutonium-238 and -239, Thorium-228, -230, and -232, Radium-226 and -228, and tritium	3	None Suspected			No Data		
213	T Building Solidification Unit	F-7	Historical	Cobalt-60, Polonium-210	4	None Suspected			No Data		
214	T Building Solid Radioactive Waste Compactor	F-7	In service	Low specific activity beta wastes - tritium	4						
215	Room T-1 Cooling Water Sump (Tank 124)	F-7	In service	Single pass non-contact cooling water	3, 4						
216	T Building, Corridor 2 Sanitary Wastewater Sump (Tank 125)	F-7	In service	Sanitary wastewaters from restrooms	3						
217	Room T-11F Sanitary Wastewater Sump (Tank 126)	F-7	In service	Sanitary wastewaters	3						
218	Room T-15 Sanitary Wastewater Sump (Tank 127)	F-7	In service	Sanitary wastewaters from restrooms and non-work area sinks	3						
219	T Building, Stair 3 Cooling Water Sump (Tank 128)	F-7	In service	Single pass cooling water from floor drains in air handling area	3, 4						
220	Room T-78 Steam Condensate Sump (Tank 129)	F-7	In service	Steam condensate from heating system in air handling area	3						

				Operational Jurisdiction				Historic Activities			
No.	Site Name	Location	Status	Regulated Units	Regulatory Authority	Spill Response	SWMU	Evidence Of Release	Response Authority	Further Action Recommended	FFA OU
336	Building 37 Waste Tank (AKA Low RiskWaste Tank (Tank 267)	F-10	In Service	effluent to wastewater treatment (Building 57)	CWA	AEA		No	NA	OM	
337	Building H Condensate Sump (Tank 268)	E-6	In Service		CWA	AEA		No	NA	OM	
338	Building 29 Septic Tank (Tank 270)	E-9	Inactive		AEA	AEA		No	CERCLA	No	5
339	T-44 Wastewater Sump (Tank 250)	F-7	Historical		NA	NA		No	AEA	D&D	
340	T-16b Wastewater Sump (Tank 251)	F-7	Historical		NA	NA		No	AEA	D&D	
341	T-90 Condensate Sump (Tank 269)	F-7	In Service		CWA	AEA		No	NA	OM	
342	T-1 Hot Side Fire Water Tank (Tank 271)	F-7	In Service		AEA	AEA		No	NA	OM	
343	T-20 Fire Water Sump (Tank 272)	F-7	In Service		AEA	AEA		No	NA	OM	
344	T-37 Fire Water Sump (Tank 273)	F-7	In Service		AEA	AEA		No	NA	OM	
345	Area C, Former Equipment Storage Area	H-6	Historical		NA			No	CERCLA	No	5

AEA - Atomic Energy Act of 1954
AKA - Also known as
BUSTR - Bureau of underground storage tank regulation
CAA - Clean Air Act
CWA - Clean Water Act
D&D - Action to be taken by Mound Plant Decomission and Decontamination Program
FUSRAP - Formerly Utilized Sites Remedial Action Program
HWMU - Hazardous waste management unit
NA - Not applicable
[a] - Highest plutonium-238 concentration 31.4 pCi/g.
[b] - Tank closed August 1992 (DOE 1992l).
[c] - To be included as part of Area 3 (#41) investigation.
[d] - Actual location unknown, maintained non-public water supply source under SDWA.
[e] - Five gallon release less than reportable quantity. (RQ)

NESHAP - National Emission Standard for Hazardous Air Pollutants
NPDES - Nation Pollution Discharge Elimination System
OM - Action to be taken by Mound Plant operations and maintainence
PBR - permit by rule
RAPCA - Regional Air Pollution Control Authority
RCRA - Resources Conservation and Recovery Act
SDWA - Safe Drinking Water Act
SWMU - Solid waste Management unit

Scoping Report
Vol. 12
Table A.1

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: Vol. 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 Scping Report: Vol. 3 - Radiological Site Survey (FINAL)."
7. DOE 1993c "Operable Unit 3, Misc. 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 Scpoing Report: Vol. 9 - 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: Vol. 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 1976a, 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."

Updated 11/29/96
Scoping Rpt Vol 12

Reference B

PRS #	UGLy Subsystem	Line Designation (prelim. cost est.)	Linear Feet (LF)
423	Bldg H to Bldg WD	1a	180
424	Bldg H to Bldg WD	1b	132
425	Bldg H to Bldg WD	2	20
426	Bldg H to Bldg WD	5	321
427	Bldg H to Bldg WD	6	223
428	Bldg H to Bldg WD	7	223
	East Exhaust Tower to Manhole 6	9	285
	East Exhaust Tower to Manhole 6	9a	60
	East Exhaust Tower to Manhole 6	10a	390
	East Exhaust Tower to Manhole 6	11	53
	East Exhaust Tower to Manhole 6	12	56
	South Side of Bldg T to Manhole 8	13a	208
	South Side of Bldg T to Manhole 8	13b	185
	South Side of Bldg T to Manhole 8	14	114
	Manhole 20 to Bldg WD	3	65
	Manhole 20 to Bldg WD	4	150
	Manhole 20 to Bldg WD	4a	223
	Bldg SW to Bldg WD	8	337

B&W SERVICES, INC.

BWX Technologies, Inc. *a McDermott company*

To: **Distribution**	
From: **R. S. Kingsley**	*File No.:*
Subject: **Cost Estimate Assumptions and Ground Rules**	*Date:*

Distribution

A Task Force was formed to develop a cost estimate for the remediation of the hot waste sewers at the Mound site. The hot waste sewer lines transported radioactively contaminated hot waste from site research and development, operating, and site support buildings to a waste treatment complex located in the WD Building. Characterization information indicates that several segments of this hot waste sewer system are extensively contaminated with radioactive materials (i.e. >700,000 pCi Co^{60} /100 cm^2 and > 400 nCi Pu^{238}. A series of alternative actions for the disposition of these lines is being developed. The objective of the task force was the estimation of the remediation costs for removal of the lines as one of the options to be considered for treatment action of these lines. This task force was composed of William Crisswell (Roy F Weston construction engineer), Chuck Finkenbein (BWXO radiation protection), Richard Kingsley (BWSI senior supervisory engineer), and Roger Murray (Morrison Knudsen Estimating Manager).

The task force met on March 13, 14, and 15 to develop the work scope and define the assumptions to be used in completing this cost estimate. The meeting:

- Described the underground lines (which the Mound project refers to as the UGLy (Underground Lines),
- Completed two site walk downs of the UGLy lines,
- Described current conditions of the UGLy lines,
- Grouped the underground lines into discrete segments for estimating convenience,
- Identified and defined cost study assumptions, and
- Identified additional information required completing a cost estimate.

Appendix A contains a copy of the view graphs used during the meeting by R. S. Kingsley to kick-off the meeting and describes the problems involved in the remediation of the UGLy lines.

This memo will:

- Describe follow-up actions items required to initiate the cost estimate study,
- Summarize guidance provided by John Price for preparing the UGLy line cost estimate,
- Document the underground line groupings to be used during the cost estimate, and
- Summarize cost study assumptions and ground rules developed by the Task Force for the completion of the Cost Study.

A. Follow-up Action Items

During the course of the three-day Task Force meeting, a series of action items were identified that were to be completed by R. S. Kingsley. These action items include:

1. Identifying the location, number and routing of vertical riser/horizontal lateral lines connecting the T Building to the 8-inch diameter hot waste sewer trunk lines below and adjacent to the DS Building. In addition, it should be determined if these lines are encased in the T Building concrete walls (second priority). This action was completed and drawing sets forwarded to William Murray. The lines are not encased in the T Building walls.

2. Obtaining addition copies of the overall underground utility site plans for William Crisswell and John Murray (first priority). This action was completed.

3. Establishing the disposition of the 8-inch diameter hot waste sewer line along the south side of the DS Building at the present location of the COS Building (included with the second priority). Was this section of hot waste line rerouted, removed, or left in place during construction of the COS building? In addition, the design/construction drawings for the COS building should be located and forwarded to Task Force members. This action was completed. As-built drawings of the COS Building indicate that all effected hot waste sewer risers were removed during COS Building construction. The COS construction drawings were forwarded to Task Force members.

4. Obtaining a set of photographs of the surface above the UGLy lines should be obtained and sent to Roger Murray (third priority). This activity was completed and a set of photographs was forwarded to Roger Murray. In addition, a set of photographs will be placed in the soils group library along with a copy of this memo.

5. Obtaining a set of the original site construction drawings showing the layout of the site and the UGLy pipe trenches should be obtained and sent to Roger Murray. This action item was completed and a set of the original site underground line construction drawings was obtained and forwarded to Roger Murray.

6. In order to develop a remediation schedule, a number of questions must be answered including:

- What happens to Building 48 and when is it scheduled to happen?

- What happens to the T Building ventilation heads houses and when are they scheduled to happen?

- What happens to the pipe bridges and their supported utility systems located south of the DS Building between manhole 8 and 8A and when are they scheduled to happen?

- What happens to the pipe bridges and their supported utility systems located south of DS Building and when are they scheduled to happen?

- What is the disposition of I Building and when is it scheduled to happen?

- What is the color-coding on the hydrants on the west side of the DS Building (i.e. red, red/yellow, and green)?

- What is the disposition of the liquid N_2 system supporting TERF and when is it scheduled to happen?

- What is the disposition of the DS Building emergency generator and when is it scheduled to occur?

The above is a fourth priority in importance. The task force did not complete this action. Answering these questions requires extensive integration with a master site closure plan. A detailed site master closure plan does not exist in sufficient detail to answer these questions. Thus a schedule for remediation of these underground lines cannot be developed at this time.

7. Cost study waste management ground rules and guidelines will be developed in consultation with BWXO waste management personnel (i.e. John Kruger's staff). This discussion should define ground rules for establishing waste packaging, waste disposal, and waste transportation costs. In addition, reference waste disposal sites should be identified by type of contaminated waste produced during UGLy line remediation. Roger Murray completed this action and the results reflected in the cost estimate report.

8. Develop an analysis and sampling plan for excavated waste. This plan should define assumptions for waste characterization during remediation and disposal. In addition the plan should include assumption for the frequency and cost for worker bioassay. Roger Murray completed this action and the results reflected in the cost estimate.

9. Roger Murray will meet with xxx Hall to discuss project cost estimating guidelines.

10. The cost estimate report must include a discussion of the current baseline cost estimate for the remediation of the UGLy lines (directive received from ?? Hall). Guidance provided during this conversation on March 15 includes:

    - John Price will have to provide site support cost estimates

B. Cost Estimate Study Guidance

John Price (BWXO soils project manager) provided guidance for the preparation of a cost estimate for the remediation of the UGLy system. This guidance included:

1. The cost estimate should be organized in the following three categories:

   - Work planning (i.e. engineering planning for UGLy line remediation, etc.),

   - Fieldwork. Fieldwork should include all of the work activities completed in the field to remediate the lines. Fieldwork should include all phase including field mobilization, field execution, line grouting, remediation, bottom-of-hole sampling, sampling and characterization of remediated soils, demobilization etc. The field work cost estimate should contain assumption for the size of the field crew (based upon past experience), number of samples taken per day, assumed ft^3 of soil excavated per day, assumed liner ft. of UGLy line remediated per day, assumed liner ft. of line grouted per day, etc., and

   - Reporting. This activity will include the preparation of final reports documenting the completion of the UGLy line remediation.

2. The Corps of Engineers reviews all project remediation cost estimates. Thus, this cost estimate must be defended to the Corps. For this reason, it is essential that all assumptions etc. used in developing this cost estimate must be documented.

3. The cost estimate should be developed assuming that the work is subcontracted to an outside firm. This includes all aspects of the job including supporting functions such as radiation control technicians, field labor, etc. Two exceptions to guidance include radiochemical laboratory support and project oversight, which will be provided by the Soils Project. In addition, the subcontractor will utilize DOE site equipment.

4. The cost estimate should develop:

   - A low estimate,

   - A medium (i.e. most likely estimate), and

   - Worst estimate.

   These three estimates can be based upon differing remediation assumptions, differing assumptions on the quantities of contaminated soils, differing remediation methodologies, or on combinations of these assumptions. The selection of these conditions is up to the task force. A matrix of the various alternative field conditions (i.e. differing levels of overburden contamination) could be developed and the likely hood that this assumed condition encountered estimated. Than a weighted average cost estimate calculated.

5. The UGLy remediation schedule should be connected to the remediation schedule for:

- TERF (i.e. Tritium Environmental Recovery System),
- Above ground utility system remediation (as shown in the current Primavera schedule),
- Remediation of buildings R, SW, and H, and
- Stack deconstruction.

6. UGLy line remediation is a fourth level WBS (i.e. WBS number 1.2.7.25) The three UGLy system activities (i.e. work planning, fieldwork, and reporting) are WBS level 5 activities. Segment remediation (i.e. Mound labor as $/hr, subcontract cost, etc.) is a level 6 activity, and the details backing up these totals are a WBS level 7 activity.

C. Definition of Underground Line Segments

During the site walk down, the Task Force concluded that it was more efficient to break the UGLy lines down into segments for cost estimating purposes. The following discussions define those segments and summarize the assumptions made for the remediation of each segment. Throughout this discussion, the basic assumptions describe below concerning the UGLy lines and their remediation is applicable. These general assumptions include:

- The UGLy line is bedded in concrete,
- The dimensions of the concrete are 48 inches wide and 12 inches deep,
- A 20 inch wide bucket will be used to excavate the overburden and expose the line,
- The interior of all lines will be grouted prior to remediation, and
- The lines will be cut into segments and removed from the trench.

1. <u>UGLy Line Segment 1A.</u> This UGLy sewer line segment starts 5 ft. from H Building wall, runs ~ 23 ft. in a westerly direction to Manhole HW -22 (which is buried under asphalt) and then on another ~ 157 ft. to Manhole HW -20. During this traverse between the H Building and Manhole HW -22, this UGLy line segment cross beneath a number of other underground utilities including:

   - A 6 inch diameter cast iron (i.e. CIP) water line,
   - A 4 inch diameter CIP sanitary waste line,
   - An 8 inch diameter CIP fire line,
   - A 15 inch diameter concrete (CONC) storm sewer,
   - A second 5 inch diameter CIP water line,

- An ADT cable,
- A 1-4" electrical tile,
- Three 4 inch condensate lines, and
- A second 6-inch diameter vitreous clay (VCP) storm sewer.

In addition, segment 1A crosses beneath the breezeway that also supports a pipe bridge carrying a number of other utility lines.

Assumptions made about UGLy segment 1A include:

- This UGLy segment can be removed following removal of the breezeway and the utility lines that are supported on the pipe bridge attached to it's roof,
- H Building will be removed prior to the remediation of the UGLy line segment,
- Soils surrounding 1 ft. the UGLy line pipe trench contain low level waste,
- This UGLy line segment is 8 inch diameter VCP encased in concrete,
- A 10% excess will be added to the soil excavated from the pipe trench as a contingency for segment structural failure, and
- Overburden above this UGLy line segment is uncontaminated and will be used as backfill.

2. UGLy Line Segment 1B. This UGLy sewer line segment runs ~ 132 ft. in a westerly direction from Manhole HW -20 to Manhole HW 18. During this traverse, this UGLy line segment cross beneath a number of other underground utilities including:

- An abandoned 8 inch diameter CIP line,
- An 8 inch diameter VCP storm sewer,
- A second 8 inch diameter VCP storm sewer,
- A 4 inch diameter CIP water line,
- An abandoned 6 inch diameter CIP water line, and
- An 8-inch diameter ACP fire waterline.

In addition, ~ 87 ft. of segment 1B crosses beneath the elevated Building 58 that house the SW Building ventilation fans and filters. Filtered SW Building room air is discharged from this building directly to an adjacent exhaust stack. Thus, Building 58 must remain active as long as the SW Building contains radioactive contamination. In addition, ~ 20 ft. of this UGLy segment crosses a main Mound site north south roadway.

Assumptions made about UGLy segment 1B include:

- This UGLy segment cannot be removed until after the SW Building has been remediated and Building 58 dismantled.
- This UGLy line segment is 8 in. diameter VCP encased in concrete,
- Soils surrounding 1 ft. the UGLy line pipe trench contain low level waste,
- A 10% excess will be added to the soil excavated from the pipe trench as a contingency for segment structural failure, and
- Overburden above this UGLy line segment is uncontaminated and will be used as backfill.

3. UGLy Line Segment 3. This UGLy sewer line segment runs ~ 65 ft. from Manhole HW-20 in a southerly direction to the northern edge of the SW Building. (NOTE: This sewer segment is part of the hot waste drain line that runs ~ 180 ft. from Manhole HW -20 to Manhole HW -14. Approximately 115 ft. of the line lies beneath the SW building and the remainder lies outside the building. Manhole HW -14 lies inside of the SW Building. This line segment is part of a total ~ 358 ft. hot waste line section that formerly ran from Manhole MH-20 through Manhole MH-12 to Manhole MH-6. This latter hot waste sewer section has been capped and abandoned in place. Remediation of the sections of this UGLy line lying beneath the SW building are the responsibility of the building manager and are not the responsibility of John Price's Soils Group. Thus, the remediation cost for the hot waste sewer segment beneath the SW Building is not included in this cost estimate. The Soils Group will only be responsible for the remediation of the ~65 ft. of this UGLy line segment that runs between Manhole HW-20 and the north outer wall of the SW Building as defined by segment 3.)

During this traverse of this UGLy line segment between the Manhole HW -20 and the northern wall of the SW Building, this UGLy line segment cross beneath a number of other underground utilities including:

- A telephone cable,
- An ADT line,
- A 24 inch diameter CONC storm sewer,
- A 8 inch diameter CIP abandoned line, and
- A 4 inch diameter CIP water line.

In addition, segment 3 ends at an ~ 18 thick concrete foundation outside of an access door into the SW Building. Formerly, this area was an ~ 10 ft, wide north south alley that ran between the R and SW Buildings. In order to increase the SW Building floor space, a roof was added over the alley along with north and south walls enclosing this alley

creating the addition SW Building floor space. In the process of enclosing this space, Manhole HW-14 was also enclosed within the building.

Assumptions made about UGLy segment 3 include:

- Remediation of this UGLy line segment is not constrained by the presence of the SW Building. Remediation however is constrained by the presence of the other underground utility lines.
- This UGLy line segment is 8 in. diameter VCP encased in concrete,
- Soils surrounding 1 ft. the UGLy line pipe trench contain low level waste,
- A 10% excess will be added to the soil excavated from the pipe trench as a contingency for segment structural failure, and
- Overburden above this UGLy line segment is uncontaminated and will be used as backfill.
- Soils surrounding 1 ft. the UGLy line pipe trench contain low level waste,
- A 10% excess will be added to the soil excavated from the pipe trench as a contingency for segment structural failure, and
- Overburden above this UGLy line segment is uncontaminated and will be used as backfill.

4. UGLy Line Segment 4. This UGLy sewer line segment runs ~ 88 ft. in a south southwesterly direction from the southern outside wall of the SW Building to Manhole HW-12. From Manhole HW-12, this UGLy sewer segment proceeds ~ 64 ft. in a southwesterly direction towards Manhole HW-6. This sewer segment terminates in a blank at ~ 20 ft. before Manhole HW-6 and does not actually enter Manhole HW-6. However, a two inch diameter line continues from the blanked off main 8 inch diameter VCP line to the WD Building. (The 2-inch diameter line will be described as Segment 4-A below). Details of this latter piping logic can be found in Monsanto Research Corp. drawing 5-1398 (reference insert for Manhole HW-6. (NOTE: This sewer segment is part of the hot waste drainline that runs ~ 178 ft. from Manhole HW -14 to Manhole HW -12. Approximately 90 ft. of the line lies beneath the SW building and the remainder lies outside the building. Manhole HW -14 lies inside of the SW Building. This line segment is part of a total ~ 358 ft. hot waste line section that formerly ran from Manhole MH-20 through Manhole MH-12 to Manhole MH-6. This latter hot waste sewer section has been capped and abandoned in place. Remediation of the sections of this UGLy line lying beneath the SW building are the responsibility of the building manager and are not the responsibility of John Price's Soils Group. The Soils Group will only be responsible for the remediation of the ~88 ft. of this UGLy line segment that runs between the south outer wall of the SW Building and Manhole HW-12 and beyond to the line termination as defined by segment 4. The cost estimate does not include the remediation of the hot waste sewer running beneath the SW Building.)

During this traverse between SW Building southern wall and the segments termination at a blank, this UGLy line segment cross beneath a number of other underground utilities including:

- An 8 inch diameter fire line, and
- A 33-inch diameter CONC storm sewer.

Significantly, this sewer segment does not cross over any underground utilities between the south outer wall of the SW Building and Manhole HW-12. However, in this section of the site, this UGLy sewer segment does cross beneath ~ 93 ft. of paved roadway and SW Building Driveway.

Assumptions made about UGLy segment 4 include:

- Remediation of this UGLy line segment is not constrained by the presence of the SW Building or, in a significant way, by the presence of the other underground utility lines.
- This UGLy line segment is 8 in. diameter VCP encased in concrete,
- Manhole HW-12 is filled with concrete completed by the waste management group in October 1999.
- Soils surrounding 1 ft. the UGLy line pipe trench contain low level waste,
- A 10% excess will be added to the soil excavated from the pipe trench as a contingency for segment structural failure, and
- Fifty percent of the overburden above this UGLy line segment is contaminated. It is assumed that:
  - 5 % of the overburden is TRU waste,
  - 5 % of the overburden is mixed waste, and
  - 40% of the overburden is low-level waste.

  It is assumed that the balance of the overburden is clean and can be recycled and used as fill.

5. UGLy Line Segment 4A. This UGLy sewer line segment runs ~ 232 ft. in a southwesterly direction from the blank in the 8 inch diameter VCP line described in Segment 4 to the WD Building. Details of the piping logic between these two hot waste sewer line connections can be found in Monsanto Research Corp. drawing 5-1398 (reference insert for Manhole HW-6. (NOTE: This sewer segment does not actually enter Manhole HW-6, but diverts away from the sewer ~ 20 ft. from the sewer. During this traverse between the blank in the 8 in. VCP line and the WD Building, this UGLy line segment cross beneath a number of other underground utilities including:

- An 8 inch diameter VCP hot waste sewer line (described below as UGLy line segment 7),

- Two ten inch diameter concrete storm sewers, and

- An 8-inch diameter ACP fire line.

In addition, this UGLy sewer segment does cross beneath ~ 27 ft. of Mound roadway.

Assumptions made about UGLy segment 4A include:

- Remediation of this UGLy line segment is not constrained in a significant way by the presence of the other underground utility lines. One of the four lines above this sewer segment is another UGLy line segment of the hot waste sewer.

- This UGLy line segment is 24 in. diameter steel saran lined pipe. The line is assumed not to be encased in concrete and that this sewer segment is bedded in a pipe trench in the ground,

- Soils surrounding ft. the UGLy line pipe trench contain low level waste,

- A 10% excess will be added to the soil excavated from the pipe trench as a contingency for segment structural failure, and

- Fifty percent of the overburden above this UGLy line segment is contaminated. It is further assumed that:

  - 5 % of the overburden is TRU waste,

  - 5 % of the overburden is mixed waste, and

  - 40% of the overburden is low-level waste.

  It is assumed that the balance of the overburden is clean and can be recycled and used as fill

6. UGLy Line Segment 5. This UGLy sewer line segment runs ~ 318 ft. in a southerly direction from Manhole HW-18 to HW-16. This UGLy line segment runs parallel to the west outside wall of the SW Building on the far side of the Mound site road that also parallels this SW Building. During this traverse between Manhole HW 18 and HW16, this UGLy line segment cross beneath a number of other underground utilities including:

   - Two ADT ducts,

   - A 2 inch diameter CIP line,

   - A 2-4 inch CND line,

- A 4-4" electrical duct,
- A 3 inch diameter CIP water line, and
- An 8-inch diameter CIP fire line.

In addition, this UGLy sewer segment crosses beneath the liquid N_2 storage tank farm across from the SW Building. This liquid nitrogen tank farm supplies an inert gas to the Tritium Environmental Recovery system and is an essential utility service to SW Building operations. This UGLy sewer segment also crosses beneath two ~17 ft. wide Mound site roadways. All of these utility systems cover a 136-ft. long section between Manhole 18 and site coordinate STA 5 +00. Thus, approximately 182 ft. of this UGLy line segment does not lie above other site underground utilities and the task force concluded that this ~182 ft. segment between site coordinate STA 5 + 00 and Manhole HW 16 could remediated at any time with limited impact on site operations. Remediation of the remaining ~ 136 ft. of this UGLy line segment must await the final shutdown of the SW Building.

Assumptions made about UGLy segment 5 include:

- This UGLy line segment is 8 inch diameter VCP The line is assumed not to be encased in concrete and that this sewer segment is bedded in a pipe trench in the ground,
- Twenty five percent of the length of this line has failed structurally,
- Ten percent of the overburden is contaminated with low level waste, and
- Twenty five percent of the pipe chase material is contaminated with low-level waste.

7. UGLy Line Segment 6. This 122 ft. long UGLy sewer line segment runs in a southwesterly direction from Manhole HW-16 to HW-6. During this traverse between Manhole HW 16 and HW-6, this UGLy line segment cross beneath a number of other underground utilities including:

- An 1 1/2 inch diameter steel hot waste line described below as UGLy line segment 8, and
- A 2-inch diameter saran lined steel hot waste line described above as UGLy line segment 4-A.

In addition, this UGLy sewer segment crosses beneath a 1-foot wide sidewalk.

Assumptions made about UGLy segment 6 include:

- This UGLy line segment is 8 inch diameter VCP The line is assumed not to be encased in concrete and that this sewer segment is bedded in a pipe trench in the ground,

- This UGLy line segment could be remediated at any time with minimal impact upon site operations,

- Ninety five percent of the overburden above this UGLy line segment is contaminated. It is further assumed that:

  - 5 % of the contaminated overburden is TRU waste,

  - 5 % of the contaminated overburden is mixed waste, and

  - 85% of the overburden is low-level waste.

- Twenty five percent of the length of this line has failed structurally, and

- Twenty five percent of the pipe chase material is contaminated in the same percentages described above for the overburden.

8. UGLy Line Segment 7. This UGLy sewer line segment runs ~ 148 ft. in a westerly direction from Manhole HW 6 to Manhole HW 4. The UGLy segment than runs ~ 98 ft. in a northerly direction from Manhole HW 4 to Manhole HW 2. During this ~ 246 ft. traverse between Manhole HW 6 and HW-2, this UGLy line segment cross beneath a number of other underground utilities including:

   - An 1 1/2 inch diameter steel hot waste line described below as UGLy line segment 8,

   - A 2-inch diameter saran lined steel hot waste line described above as UGLy line segment 4-A,

   - Three separate on-ground hot waste lines,

   - A two inch diameter storm sewer, and

   - An 8-inch diameter fire line.

   In addition, this UGLy sewer segment crosses beneath a 5-ft. wide sidewalk and a 12 ft. wide roadway.

   Assumptions made about UGLy segment 7 include:

   - This UGLy line segment is 8 inch diameter VCP The line is assumed not to be encased in concrete and that this sewer segment is bedded in a pipe trench in the ground,

   - This UGLy line segment could be remediated at any time with minimal impact upon site operations. However, it is assumed that the fire line and the storm water sewer will remain in place after the site is turned over to the sewer. Thus, costs will put in

the study to return these utilities to operations. In addition, costs will be put in the study to maintain these utilities during how waste sewer remediation,

- Sixty percent of the overburden above this UGLy line segment is contaminated. It is further assumed that:
  - 5 % of the contaminated overburden is TRU waste,
  - 5 % of the contaminated overburden is mixed waste, and
  - 90% of the overburden is low-level waste.
- Twenty five percent of the length of this line has failed structurally, and
- Twenty five percent of the pipe chase material is contaminated in the same percentages described above for the overburden.

9. UGLy Line Segment 8. This UGLy sewer line segment runs ~ 540 ft. in a southerly and southwesterly direction from the outside south wall of the SW Building to the WD Building. During much of this run, this UGLy sewer segment runs parallel to the UGLy sewer segment described as segment 4A. The two lines are ~ 2 ft. apart for approximately 181 ft. between site coordinates STA 2 + 00 and STA 0 + 70. During this ~ 540 ft. traverse between the SW Building and the WD Building, this UGLy line segment cross beneath a number of other underground utilities including:

   - A 6 inch diameter CIP line,
   - An electrical junction box,
   - An 8 inch diameter hot waste line described in UGLy line segment 7,
   - A 12 inch diameter storm sewer,
   - A 10 inch diameter storm sewer,
   - A 10 inch diameter concrete storm sewer, and
   - An 8-inch diameter ACP fire line.

   In addition, this UGLy sewer segment crosses beneath a 25-ft. wide roadway and a second 21 ft. wide roadway.

   Assumptions made about UGLy segment 6 include:

   - This UGLy line segment is 2-inch diameter welded steel pipe. It is assumed that this line carried only low-level liquid tritium waste and that there were no insoluble compounds present in this waste. The line is assumed not to be encased in concrete and that this sewer segment is bedded in a pipe trench in the ground,

- This UGLy line segment could be remediated at any time with minimal impact upon site operations. However, it is assumed that the fire line and the three storm water sewers will remain in place after the site is turned over to the sewer. Thus, costs will put in the study to return these utilities to operations. In addition, costs will be put in the study to maintain these utilities during how waste sewer remediation,

- The ~ 100 ft. of line to the immediate south of the SW Building is assumed to have fifty percent of the overburden above this UGLy line segment contaminated. It is further assumed that:

  - 5 % of the contaminated overburden is TRU waste,

  - 5 % of the contaminated overburden is mixed waste, and

  - 90% of the overburden is low-level waste.

- The ~ 180 ft. of line that runs parallel to the UGLy line segment 4 A will be remediated with that segment. Thus, the volume of waste (i.e. due to overburden and trench bed contamination) will not be included in the cost estimate (i.e. these costs will not be double counted). Only the actual volume of the UGLy line 8 steel pipe will be included in the cost estimate.

- Remediation of the UGLy line segment will commence at the SW Building and proceed towards the WD Building down the hillside.

10. UGLy Line Segment 9. This UGLy sewer line segment runs ~ 143 ft. in a southeasterly direction from Manhole HW 6 to Manhole HW 8. The UGLy segment than continues in a southeasterly direction for ~87 ft. to Manhole HW 8A. This line segment then continues for an additional ~47 ft. in an easterly direction to the edge of the DS Building. This UGLy line segment also contains an ~ 30 ft. length of 3 inch diameter CIP pipe connecting this hot waste sewer to a sump in the T Building ventilation tower adjacent to this UGLy line section. During this ~287 ft. traverse between Manhole HW 6 and the western edge of the DS Building, this UGLy line segment crosses beneath a number of other underground utilities including:

    - Two 4 inch electrical conduits, and

    - A 10-inch diameter VCP line.

    In addition, this UGLy sewer segment crosses beneath an overhead pipe bridge containing a number of other active and inactive utility systems.

    Assumptions made about UGLy segment 6 include:

    - This UGLy line segment is 8-inch diameter VCP pipe. According to the original site drawings for the hot waste sewer system, this line segment is not be encased in concrete. It is assumed that the segment is bedded in a pipe trench in the ground. The site drawings also indicate that there is a second abandoned 8-inch diameter hot waste sewer steel line abandoned in-place beneath this segment. The drawing

indicates that this abandoned line is encased in concrete. It is assumed that the upper line segment is slightly contaminated with low-level waste while the abandoned line is high contaminated with low-level waste. Thus, the volume of remediated line waste must be doubled because of the presence of the abandoned line.

- This UGLY line segment could be remediated at any time with minimal impact upon site operations. The major impediment to line remediation is the pipe bridge and it's overhead utilities. Once this pipe bridge is abandoned, this UGLy section can be remediated. These are minimal below grade utility systems that impact the remediation of this UGLy line segment, and

- Twenty five percent of the overburden above this UGLy line segment is contaminated. It is further assumed that:

  - 5 % of the contaminated overburden is TRU waste,

  - 0 % of the contaminated overburden is mixed waste, and

  - 95% of the contaminated overburden is low-level waste.

11. UGLy Line Segment 10. This UGLy sewer line segment runs ~ 304 ft. in an easterly direction along the north side of the DS Building along it's entire length. During this ~ 304 ft. traverse of the DS Building, this UGLy line segment does not cross any other underground utilities. However, there is a lateral tie in a vertical riser from the T Building.

    Assumptions made about UGLy segment 10 include:

    - This UGLy line segment is 6-inch diameter VCP pipe. It is assumed that the line is encased in concrete and that there are no other abandoned underground hot waste lines beneath the north side of the DS Building.

    - The 3-inch diameter, 30-ft. branch line to the T Building ventilation head house sump will also be remediated as part of this UGLy line segment. This line is assumed to be contaminated with low level waste,

    - This UGLy line segment is located ~ 9 ft. below the finish grade elevation of the DS Building floor,

    - Based upon the insitu Co^{60} surveillance study, it is assumed that 100% of this UGLy line segment is highly contaminated with low-level waste. In addition, the line segment is contaminated with other gamma emitting radioisotopes.

      The cost study will assumed that the interior walls and floor of the north side of the DS Building would be removed to expose this hot waste sewer segment.

    - This UGLY line segment could be remediated at any time with minimal impact upon site operations, and

- Ten percent of the overburden above this UGLy line segment is contaminated. It is further assumed that:
  - 0 % of the contaminated overburden is TRU waste,
  - 0 % of the contaminated overburden is mixed waste, and
  - 100% of the contaminated overburden is low-level waste.

12. UGLy Line Segment 11. This UGLy sewer line segment runs ~ 53 ft. in a westerly direction from the east wall of the DS Building to the T Building Exhaust Tower sump. During this ~ 53 ft. traverse, this UGLy line segment does not cross beneath any other underground utilities.

    Assumptions made about UGLy segment 6 include:

    - This UGLy line segment is 8-inch diameter VCP pipe. The line is assumed to be encased in concrete,
    - This UGLy line segment could be remediated at any time with minimal impact upon site operations. The major impediment to line remediation is the pipe bridge and it's overhead utilities, and
    - Ten percent of the overburden above this UGLy line segment is contaminated. It is further assumed that:
      - 0 % of the contaminated overburden is TRU waste,
      - 0 % of the contaminated overburden is mixed waste, and
      - 100% of the contaminated overburden is low level waste.

13. UGLy Line Segment 12. This UGLy sewer line segment is the lateral riser from the T Building sump that transported that building's hot waste to the main hot waste trunk line described in UGLy line segment 10.

    Assumptions made about UGLy segment 12 include:

    - This UGLy line segment is 3-inch diameter pipe,
    - Details of the placement of this UGLy line segment along the T Building wall and the length of the lateral/riser line are assumed to be present in T Building construction drawings.
    - This UGLy line segment could be remediated at any time with minimal impact upon site operations. The major impediment to the remediation of this line segment is the pipe bridge and it's overhead utilities, and
    - Ten percent of the overburden above this UGLy line segment is contaminated. It is further assumed that:

- 0 % of the contaminated overburden is TRU waste,
- 0 % of the contaminated overburden is mixed waste, and
- 100% of the contaminated overburden is low-level waste.

14. UGLy Line Segment 13. This UGLy sewer line segment runs ~ 217 ft. in a southeasterly direction from Manhole HW 8 to Manhole HW 10. The UGLy segment than continues in an easterly direction for ~ 184 ft. This line segment then continues for an additional ~47 ft. in an easterly direction to the edge of the DS Building. During this ~ 287 ft. traverse between Manhole HW 6 and the eastern end of this hot waste line, this UGLy line segment cross beneath a number of other underground utilities including:

- Two ground wires,
- An 8 inch diameter CIP sanitary sewer line, and
- A 12-inch diameter storm water sewer line.

In addition, this UGLy sewer segment between Manholes HW 8 and HW-10 crosses beneath an overhead pipe bridge containing active and inactive utilities. This UGLY line segment runs parallel to the same pipe bridge for it's entire ~ 184 ft. length.

Assumptions made about UGLy segment 6 include:

- The ~ 217 ft. UGLy line segment between Manhole HW 8 and HW 10 is an 8-inch diameter vitreous clay pipe. This pipe segment replaced a 5-inch diameter cast iron pipe that is abandoned in place adjacent to the 8-inch VCP pipe. It is assumed that the original cast iron is highly contaminated with low-level waste and that the replacement segment is slightly contaminated with low-level waste. It is further assumed that the original cast iron line is encased in concrete while the newer line is not encased in concrete and that this sewer segment is bedded in soil. Thus, the volume of remediated line waste must be doubled because of the presence of the abandoned line.
- The ~ 184 ft. UGLy line segment between Manhole HW 10 and the end of the line is an 8 inch diameter cast iron pipe that is the original line installed at the time of T Building construction.
- This UGLy line segment could be remediated at any time with minimal impact upon site operations. The major impediment to segment remediation is the pipe bridge and it's overhead utilities. Once this pipe bridge is abandoned, this UGLy section can be remediated. These are minimal below grade utility systems that impact the remediation of this UGLy line segment, and
- Ten percent of the overburden above this UGLy line segment is contaminated. It is further assumed that:
  - 0 % of the contaminated overburden is TRU waste,

- 0 % of the contaminated overburden is mixed waste, and
- 100% of the contaminated overburden is low-level waste.

15. UGLy Line Segment 14. This UGLy sewer line segment is the three lateral risers from the T Building sumps that transported that building's hot waste to the main hot waste trunk line described in UGLy line segment 13.

    Assumptions made about UGLy segment 14 include:

    - This UGLy line segment consist of three 3-inch diameter pipe vertical riser that carried low risk and high risk wastes from T Building sumps to the hot waste main sewer trunk line for transport to the WD Building,
    - Details of the placement of this UGLy line segment along the T Building wall and the length of the lateral/riser line are assumed to be present in T Building construction drawings.
    - This UGLy line segment could be remediated at any time with minimal impact upon site operations. The major impediment to segment remediation is the pipe bridge and it's overhead utilities, and
    - Ten percent of the overburden above this UGLy line segment is contaminated. It is further assumed that:
        - 0 % of the contaminated overburden is TRU waste,
        - 0 % of the contaminated overburden is mixed waste, and
        - 100% of the contaminated overburden is low-level waste.

D. Cost Study Assumptions and Ground Rules

During the March 13-16 meeting, the Task Force developed a series of ground rules and assumptions for the completion of the cost study. These included general study assumptions and specific study assumptions. The following describes these assumptions.

General Cost Study Assumptions

1. During the Task Force site walk-downs of the UGLy system, it became clear that the remediation of these lines would be compromised and complicated by all of the underground and aboveground utilities serving the site. The aboveground utilities are run on pipe bridges that crisscross the site while the below ground lines run in individual trenches throughout the site. The task force concluded that it would be cost prohibitive to remediate the UGLy lines if the majority of these above and below ground utility systems remained in place. Thus, before the UGLy lines are remediated, the other utilities serving the site must be abandoned, isolated, and removed by others (i.e. the removal of these other utility systems will not be included in this cost estimate). However, the cost for the excavation of an underground utility to gain access to an UGLy line would be included in

the cost estimate. The Task Force believes that certain essential site utilities (e.g. storm water lines) can be handled (i.e. rerouted) during UGLy line remediation. However, the cost for such rerouting and isolation of these essential utilities will not be included in this cost estimated because a master plan for the eventual configuration of the site has not been developed (i.e. which sanitary storm sewers remain and which will require rerouting etc.?). Some examples of the site utilities that will impact UGLy line remediation include:

- Steam distribution from the central site power plant used for plant heat (distributed throughout the site on pipe bridges throughout the site),
- Condensate return to the site power plant (distributed throughout the site on pipe bridges),
- Glycol supply and return for site cooling (distributed throughout on pipe bridges),
- Plant air (distributed throughout the site in underground main headers),
- Process water (distributed throughout the site in underground main headers),
- Etc.

The coordination of UGLy line remediation with the removal of other Mound site utilities was the main problem identified by the Task Force that could affect the UGLY system remediation cost and schedule. Attempting to remediate the UGLY system without shutting down these other site utilities will be prohibitively expensive.

2. A related interference with UGLy system remediation involves utilities serving the SW Building. On of these utilities includes the liquid N_2 cryogenic storage tanks located on the west side of the SW building. This system is a part of the Tritium Environmental Recovery System, which must remain operational until this building is shut down. An UGLy main trunk line runs in a north south direction beneath this tank farm. A second SW Building utility impacting UGLy line remediation is an elevated building (Building 58) which houses the SW Building's HVAC fans and filter systems and thus must remain operational until this building is shut down. An east west UGLy main trunk line is located beneath Building 58. A third SW Building interference with UGLy line remediation is a large number of underground utility lines that serve the building. As a result of these three major interference's, the Task Force assumed that the UGLy lines to the north and west of the SW Building would not be remediated until SW Building operations were terminated.

3. The overburden above an UGLy line segment will be graded by the Task Force on a case-by-case basis estimating the percentage of soil radiological contamination, chemical contamination, and mixed waste contamination above waste disposal limits (depending upon location within the Mound site). This percentage will be applied to the quantity of overburden required to access the UGLy line at the depth in a sewer segment. The volume of overburden above an UGLy system line will be estimated and the volume of radiologically contaminated, chemically contaminated, and mixed waste contaminated soil calculated for each line segment.

4. Any irregularities in the contamination condition of soil overburden will be handled as an overall contingency assigned to each line segment.

5. Soils containing less than radiological contamination and chemical contamination limits will be returned to the site and used as backfill.

6. Fieldwork productivity's (i.e. ft^3 excavated and loaded per day) will be assigned by the type of contamination assumed (i.e. clean soil, low level radiological contamination, TRU radiological contamination). The estimated man-hours will be completed by line segment and the productivity will be added for each segment reflecting productivity and contamination assumptions for that segment.

7. A 20-inch wide bucket will be assumed for the remediation. It is assumed that all UGLy lines were placed in concrete and that this concrete is 4[illegible]-inch wide concrete and 12 inches deep. The overburden above the line will be excavated in a 1 to 1 slope.

8. A decontamination/change room trailer will be provided at the site to support the field staff. Capabilities of this trailer complex will include change room with lockers, health physics instrumentation for personnel monitoring, and shower room with waste disposal capability.

9. The battery limit for UGLy line remediation will be five ft. from building. Within this limit, the building manager is responsible for UGLy line remediation. The principle exception to this assumption is the DS Building. The remediation of the UGLy line beneath the DS Building (and above the T Building) will be included in the cost estimate. In addition the remediation of all-UGLy line laterals and vertical risers originating in the T Building will be included in the cost estimate. (NOTE: The remediation of the UGLy main trunk line that runs beneath the SW Building and Manhole MH-xx located inside of the SW Building is the responsibility of the SW Building manager and will not be included in this cost estimate.)

10. General contingencies that will be added to the overall cost estimate include unknown TRU contamination, additional unknown mixed waste contamination, and unknown/unidentified UGLy lines. An across the board 15% will be added to the total cost estimate to cover these unknown/unidentified conditions.

    The cost estimate will not include cost for the final grading of the site and the final drainage of the site. Others will estimate this cost when final disposition plans for the site are completed.

UGLy line segment 2. This UGLy sewer line segment runs ~25 ft. in a southwesterly direction from Manhole HW-20 to the northern edge of SW Building. This sewer segment is part of the hot waste drain line system from SW Building.

Reference C

MLM-3791
UC-700

Mound Facility Physical Characterization

Prepared by William R. Tonne with contributors Barbara M. Alexander, Matthew R. Cage, Ernest H. Hase, Mark J. Schmidt, Jeanne E. Schneider, William Slusher, and James E. Todd

December 1, 1993

MOUND

operated by
EG&G MOUND APPLIED TECHNOLOGIES
P.O. Box 3000, Miamisburg, Ohio 45343-3000

for the
U. S. DEPARTMENT OF ENERGY
Contract No. DE-AC04-88DP43495

H BUILDING PHYSICAL CHARACTERIZATION

1) Current Mission Description

a) Facility Capabilities

H Building is a 17,334-ft^2 building that houses a laundry facility, a bioassay laboratory, the credit union, a men's change room, a women's change room, a small maintenance shop, and some office space.

b) Resources Required to Support Operations

Primary Physical Resources:
- Electricity
- Potable water
- Sanitary drainage
- Physical security
- Telecommunication devices
- Fire protection, sprinklers, fire department
- HVAC

Services:
- Human Resources
- Finance and Accounting
- Environmental, Safety, and Health
- Maintenance
- Custodial
- Payroll
- Meal
- Supply

c) Current Safety Envelope

H Building operations are classified as standard industrial hazard.

d) Current Status

1. No formal CAS review has been done. A quick condition assessment was done in July 1992.

2. No formal CAMP review has been done based on the latest Reconfiguration decision. A CAMP report was submitted on April 1, 1992, which focused on ES&H needs, infrastructure maintenance, and consolidation projects.

3. The bioassay laboratory in H Building does analyze or has analyzed samples for Pantex, Pinellas, Battel, and the U.S. Army.

2) Future Facility Use

a) Alternate Future Use Scenarios

1. WFO in the same discipline is unknown under recent May 27, 1993, reconfiguration guidance. Probably none.

2. WFO in a new discipline is unknown under recent May 27, 1993, reconfiguration guidance. Probably none.

3. Commercialization under a lease agreement possibility: H Building would be useful for any application requiring bioassay sample analyses.

4. Commercialization under a sale agreement is unlikely in the short term, although there is a long-term possibility.

5. H Building is radiologically contaminated and may have to be decontaminated depending upon its future use.

b) Facility Modifications Required for Likely Use

Probably no major building modification would be required for this use. The basic changes required would involve equipment.

c) Facility Modifications Required for Other Uses

Unknown.

d) Changes to Safety Envelope

The facility use suggested above should be covered under standard industrial hazard category unless hazardous materials are involved.

Any new work conducted in H Building may require that a safety assessment be performed to identify any new hazards involved in the process.

e) Cleanup Criteria for Each Future Use Scenario

The need to clean H Building of radiological materials is dependent upon each use.

f) Disposition of Surplus Equipment

Surplus equipment in H Building may be readily disposed of as required. The washers and dryers in the laundry facility may be removed with riggers.

Reference D

USE CATEGORY	
C	This procedure shall be available to workers, though not necessarily at the work location. This procedure may be performed without referring to the procedure; however, the user is still responsible for adhering to the procedure.
ML-9771A	

MOUND

TECHNICAL MANUAL

MD-22153, ISSUE 2
MOUND SITE RADIONUCLIDES BY LOCATION

Section	Issue
Intro	2
1	1
2	1
3	1
Appen A	1
Appen B	1
Appen C	1

Page	Issue
1	2
2	2
3	2

SEE DISTRIBUTION LIST ATTACHED

CHANGES INCORPORATED

- [x] Replace Pages 1, 2, and 3 and Introduction
- [x] Insert (New Pages) Appendix C
- [ ] Remove
- [ ] Complete Reprint

This issue has been reviewed and approved for publication by TR, D. L. Wirkus.

David L Wirkus 3-4-98
Date

All appropriate reviews by senior safety committees were conducted. This issue is authorized for use by Advance Change Order on file in Technical Manuals.

K. E. Sirois, 2-11-98
Acting Radiological Control Manager

WP – 2031 pac TR – Technically Responsible E – Editor

TABLE OF CONTENTS FOR SECTION 2
SUPPORTING BUILDINGS

1. BACKGROUND INFORMATION 1
2. WAREHOUSE #9 1
3. WAREHOUSE #13 2
4. WAREHOUSE #15 3
5. BUILDING #21 3
6. BUILDING #34 4
7. BUILDING #50 5
8. BUILDING #59 (CFX) 5
9. BUILDING #68 6
10. B-BUILDING 6
    10.1 Room B-146 7
11. E-BUILDING 7
    11.1 Room E-105 7
    11.2 Room E-107 7
    11.3 Room E-113 8
    11.4 Room E-141, 142, 144, 155 8
    11.5 Rooms E-174, 175, 177, 185, 194 8
12. H-BUILDING 9
13. I BUILDING 10
14. M BUILDING 10
15. P BUILDING 10
16. R&R BUILDING 11
17. SD BUILDING 12
18. BUILDINGS WHERE RADIONUCLIDE UPTAKE IS UNLIKELY 13
19. ENDNOTES AND REFERENCES 14

11.5.4 Room 185 - (~1985 - PRESENT) alpha and beta on metallurgical sample contaminated with U-235, a second sample with suspected contamination from Th-232.

11.5.5 Room 194 - alpha from possible plutonium, beta and gamma from possible U-235 and or U-238

An overview of operations in E Building include the following radionuclides of concern: [46] [47]

nitrate and chloride solutions of:

plutonium-238,239,242	uranium-232,234,235,236,238
thorium-229,230	polonium-210
tritium	lead-210

Note: Plutonium-238 was the major radionuclide of concern with polonium-210 being second and tritium third.[48]

12. H-BUILDING

Although this building performs many innocuous tasks such as credit union and change rooms, there are some activities which have the potential of radionuclide uptakes. [49]

The laundry had a "hot laundry" capability where clothes exposed to radionuclides were dealt with, which is the primary reason the building was built.

Bioassay labs and other environmental labs are housed in H Building and have the potential for low levels of exposure.

Most radionuclides are tracer nitrate and chloride solutions of Pu-238, Pu-239, Pu-242, U-232, U-236, and Th-229. Tritium and Po-210 may also be included. [50]

It has also been suggested that radium-226, thorium-228, and actinium-227 also be included in the list. [51]

Radionuclides and related compounds of concern are:

plutonium-238,239,242
thorium-228,229
radium-226
tritium
uranium-232,236
actinium-227
polonium-210

Note: Plutonium-238 was the major radionuclide of concern with polonium-210 being second and actinium-227 third.[52]

13. I BUILDING

I Building refers to "Isolation Building."

13.1 Low level counting of bioassay (urine and fecal) samples, and environmental counting such as soil, vegetation, etc., were done. There is little possibility of uptakes to be concerned with. [53]

13.2 (~1955 - PRESENT) This area is used for Non-Destructive Testing (NDT) and the assembly of explosive devices. No radionuclides are used. [54]

14. M BUILDING

Room M-20 had a Livermore drybox.[55]

Machining of uranium-238 was also done in this building.

15. P BUILDING

"P" for Powerhouse Building - In 12/12/50 there was an incident where a pipe broke spraying the body with 213°F steam. There was soft beta associated with this incident.[56]

Note: Very dilute tritium was the only radionuclide of concern.[57]

Reference E

Main Hill Underground Lines

PRSs 122-124

Preview of the PRS Package

HW Sewer Radiological Characterization Studies

- Other Source Of HW Sewer Radiological Characterization Data
  - Remediation Of H Building Below Slab Floor Drains (Fall 1998)
    - Two Sludge Samples Obtained From Inside HW Sewer Building Feed Lines
      - extensive Pu^{238} Contamination

H Building (Hot Waste Laundry)

- Laundry Built In 1947 as part of original site construction
  - laundry washing machines in Room H-133
    - room also contained a 10 ft. long trench in the floor to receive spent wash water
    - trench contains a six inch diameter drain line
      - drain line is a part of below slab Hot Waste Sewer system
        - » drain connected to main hill HW sewer system
        - » waste transferred to WD by gravity flow from trench

H Building (Hot Waste Laundry)

- Laundry Hot Waste System Modification
  - In mid-1980's, trench gravity drain system abandoned in place
    - Anecdotal information indicates that existing main HW sewer system had developed leaks
    - A new sump system installed in Room H-133
      - sump contained a pump to transfer spent wash water overhead to WD Building as a hot waste
    - Existing trench sealed at that time

H Building (Hot Waste Laundry)

- H Building Remediated In August to November 1998
  - remediation program removed contaminated sump, trench, and trench drain lines
    - Trench drain contains sludge
      - Two sample of trench drain sludge obtained and analyzed by gamma energy spectroscopy
  - remediation program did not remove HW Sewer lines outside of H building

H Building (Hot Waste Laundry)

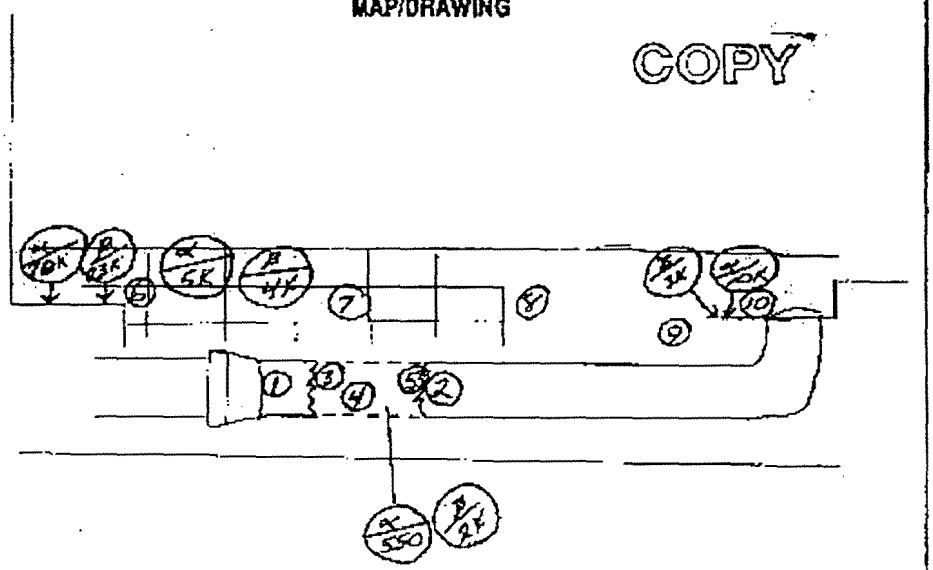
- Conclusions: Sludge Sample Analysis
  - gamma isotopic analysis spectra is complicated with many gamma emitting isotopes present
    - the data is invaluable
      - all contaminated materials processed/handled at the site will have come through the laundry
      - a qualitative analysis of gamma spectra has been requested
      - a determination is being made to determine if sludge samples were archived
        - » if found, an alpha energy analysis will be requested

RADIOLOGICAL SURVEY DATA SHEET

Page 1 of 15 D-1 D-13

LOCATION: (BLDG/AREA/ROOM) H-Bldg Rm 1339/134	SURVEY NO. 98-H-202-HR
PURPOSE: Contamination Survey of Pipe and Tile	RWP NO. HR-021-98
	DATE: 10-5-98
	TIME: @ 1000

MAP/DRAWING



LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+γ+n) extremity on contact
△ = mrem/hr neutron
= air sample number
(#) = swipe number
α/β – direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
Eberline	5315/5303	3-21-99
Eberline	3934	10-8-98

ML-8520 (2-98)

Completed by: (Signature)	[redacted]	Date: 10-5-98
Completed by: (Print Name) L. Moss		
Checked by: (Signature)	[redacted]	Date: 10-6-98
Checked by: (Print Name) Frank A. Stanford		
Reviewed/Approved by: (Signature)	[redacted]	Date: 10/6/98
Reviewed/Approved by: (Print Name) Collier		

66

6/21/00

67

COPY pg 50 of 15

SOIL ANALYSIS REPORT

FIELD SAMPLE ID:
LAB SAMPLE ID: HPC02767
FILE ID: HPC02767.S0
PRIORITY:

Description\Location:
Sludge, Hot Laundry Drain

Collector: B. Barber, [redacted]

Date Received: 10/5/98 Date Collected:

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	5.01	0.05	45,000
Cs-137	0.62	0.05	45,000
Pb-210 *	0.00	2.00	45,000
Ra-226	30.80	0.53	800
Ac-227 (D)	9.68	0.28	40
Th-230	85.12	11.36	800
Th-232 (D)	90.43	0.15	130
Pu-238	329,100.00	246.00	500
Am-241	711.40	0.30	500

Other Nuclides:

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
U-238D	34.91		
U-235	1.8		

Σ DOT 330.07 nCi/g

Σ Respirator 660.71

Σ Respirator <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ DOT 2 nCi/g limit, total activity.

(D) Denotes identification by daughter emissions.
Sample is assumed to be in secular equilibrium

* Indicates activity < MDA. MDA used in limits calculation.

Instrument type: High Purity Germanium

Comments:

Date: 10/6/98 Counted By: 5890 Analyzed By: 5590 INITIALS [illegible]

6/21/00

Jox

RADIOLOGICAL SURVEY DATA SHEET

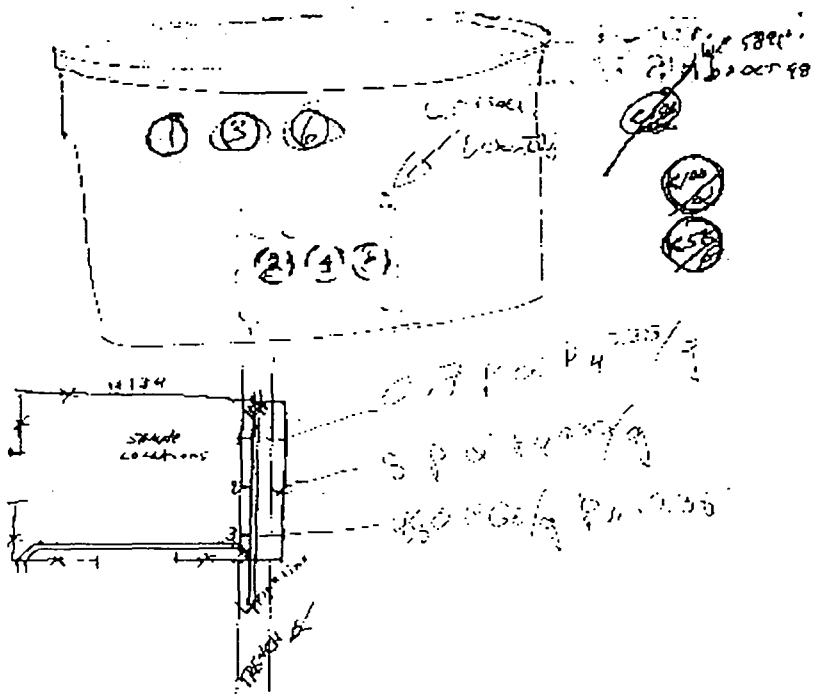
Page 1 of 19

LOCATION: (BLDG/AREA/ROOM) H-134	SURVEY NO. 98-H856-MK
PURPOSE: CONTAMINATION SURVEY OF (3) THREE MARINELLI SAMPLE DISHES CONTAINING SAND/SOIL FROM UNDER DRAIN PIPE THAT WAS REMOVED IN H-134	RWP NO. ME-021-98
	DATE: 22 OCT 98
	TIME: 1510

MAP/DRAWING

3 MARINELLI SAMPLE DISHES

COPY



LEGEND: $ = mrem/hr (γ) whole body
$ E = mrem/hr (β+n+γ) extremity on contact
$ = mrem/hr neutron
$ = air sample number
$ = swipe number
α/β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE Eberline	2-BR 597/5295	12-30-98

Completed by: (Signature) [redacted] Date: 22 OCT 98

Completed by: (Print Name) Bill Carter

Counted by: (Signature) [redacted] Date: 10/22/98

Counted by: (Print Name) JOSEPHINE McQUEEN

Reviewed/Approved by: (Signature) [redacted] Date: 11/23/98

Reviewed/Approved by: (Print Name) Collins

ML-9620 (2-98)

P-2

68

6/21/00

98-H-261-M02 B 7of8

SOIL ANALYSIS REPORT

FIELD SAMPLE ID:
LAB SAMPLE ID: HFG02795
FILE ID: HFG02795.S0
PRIORITY:

Description\Location:
Pipe Sludge, H-134 2" Line

Collector: B. Barber, [redacted]

Date Received: 10/26/98 Date Collected:

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	0.34	0.06	45,000
Cs-137	2.79	0.11	45,000
Pb-210	0.00	2.17	45,000
Ra-226	15.84	1.01	800
Ac-227 (D)	12.12	1.58	40
Th-230	12.21	20.29	800
Th-232 (D)	145.70	0.23	130
Pu-238	202,100.00	230.60	500
Am-241	594.20	0.43	508

Other Nuclides:

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Th-234	17.71		
Bi-207	0.42		
Bi-210m	0.48		

Σ DOT 202.91 nCi/g

Σ Respirator 406.86

Σ Respirator <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ DOT 2 nCi/g limit, total activity

(D) Denotes identification by daughter emissions
Sample is assumed to be in secular equilibrium.
* Indicates activity < MDA. MDA used in limits calculation.

Instrument type: High Purity Germanium

Comments:

Date: 10/27/98 Counted By: 5890 Analyzed By: 5390 INITIALS

6/21/00

70

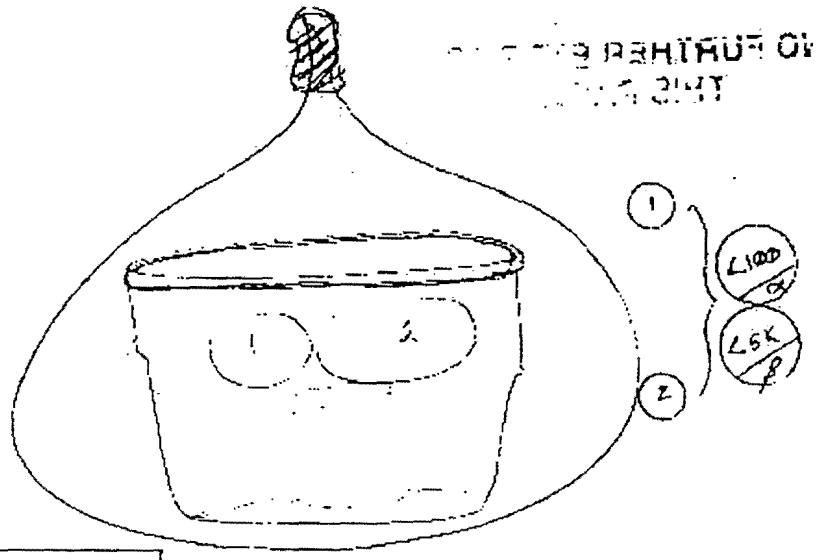
RADIOLOGICAL SURVEY DATA SHEET

COPY H-1 P1

Page 1 of 1

LOCATION: (BLDG./AREA/ROOM) H-134	SURVEY NO. 98-11-261-MR
PURPOSE CONTAMINATION SURVEY OF (2) TWO MARINELLI SAMPLE DISHES CONTAINING PIPE SLUDGE (2") & SOIL FROM H134 PIPE TRENCH (and 4" CMT/WATER PIPE)	RWP NO. MR-011-98
	DATE: OCT 26 1998
	TIME: 1215

MAP/DRAWING



LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
= mrem/hr neutron
= air sample number
= swipe number
or # = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal Due Date
NaI Ludlum w/Ludlum	5344/3274	4-21-99

NA

Completed by: (Signature)	[redacted]	Date: OCT 26 1998
Completed by: (Print Name)		
Checked by: (Signature)	[redacted]	Date: 10 26 98
Checked by: (Print Name)		
Reviewed/Approved by: (Signature)	[redacted]	Date: 11/25/98
Reviewed/Approved by: (Print Name)		

ML-0820 (2-98)

6/21/00

COPY

SOIL ANALYSIS REPORT

FIELD SAMPLE ID:
LAB SAMPLE ID: HP602785
FILE ID: GEA00475.90
PRIORITY:

Description\Location: H-134 Pipe Retrench #3

Collector: B. Barber, [redacted]

Date Received: 10/22/98 **Date Collected:**

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60 *	0.00	0.01	45,000
Cs-137 *	0.01	0.01	45,000
Pb-210	0.28	0.09	45,000
Ra-226	0.70	0.04	800
Ac-227 (D)	0.15	0.02	40
Th-230	0.84	0.78	800
Th-232 (D)	0.69	0.01	130
Pu-238	484.40	10.51	500
Am-241	1.34	0.01	500

Other Nuclides:

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ DOT 0.49 nCi/g

Σ Respirator 0.98

Σ Respirator <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ DOT 2 nCi/g limit, total activity.

(D) Denotes identification by daughter emissions.
Sample is assumed to be in secular equilibrium.

* Indicates activity < MDA. MDA used in limits calculation.

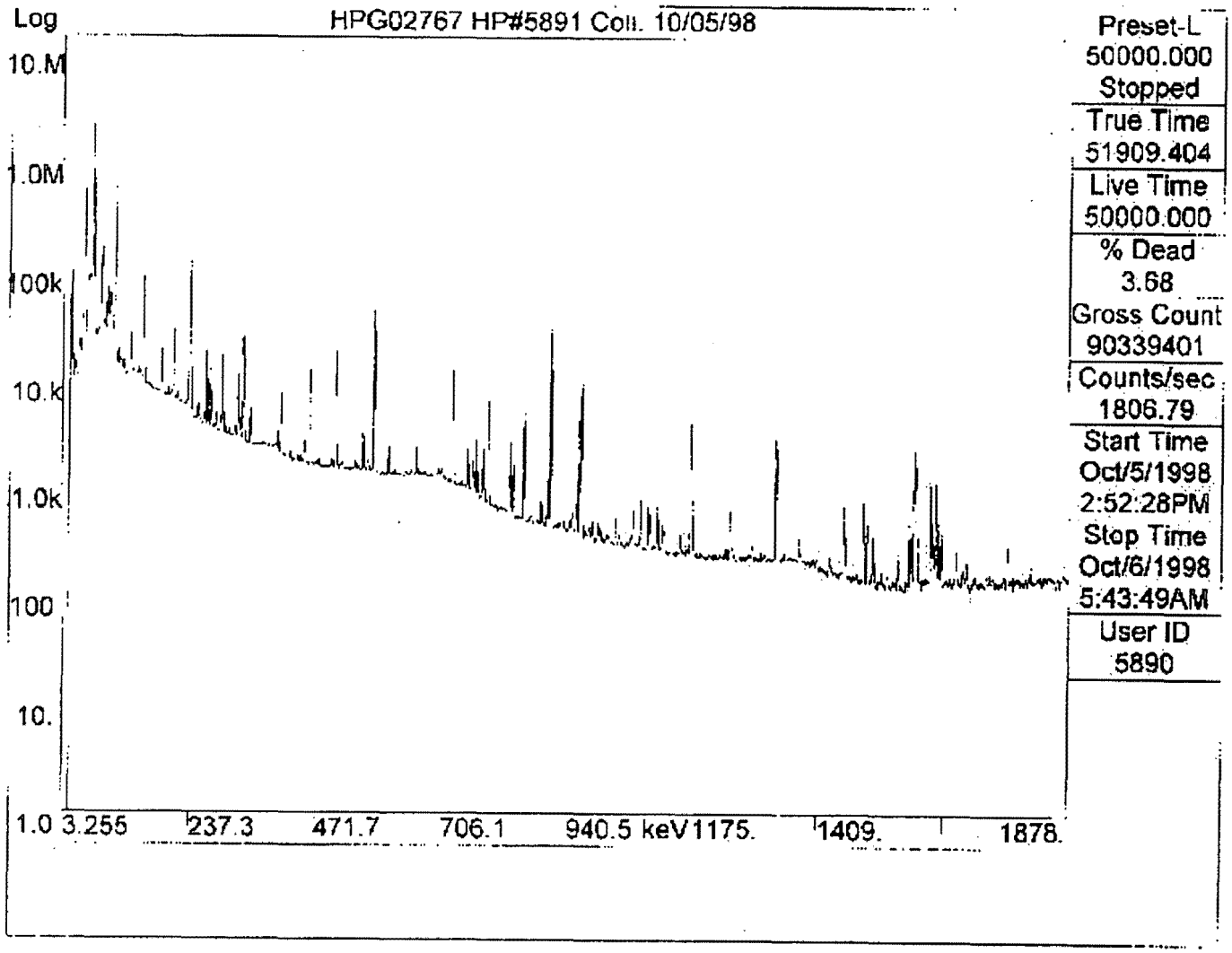
Instrument type: High Purity Germanium

Comments: See pg 2 of 7 comments

Date: 10/26/98 Counted By: 5890 Analyzed By: 5390 INITIALS [illegible]

71

6/21/00


Log
HPG02767 HP#5891 Coll. 10/05/98
10.M
1.0M
100k
10.k
1.0k
100
10.
1.0
3.255
237.3
471.7
706.1
940.5
keV
1175.
1409.
1878.
Preset-L
50000.000
Stopped
True Time
51909.404
Live Time
50000.000
% Dead
3.68
Gross Count
90339401
Counts/sec
1806.79
Start Time
Oct/5/1998
2:52:28PM
Stop Time
Oct/6/1998
5:43:49AM
User ID
5890

H Building (Hot Waste Laundry)

- Conclusions: Sludge Sample Analysis
  - sludge analysis results are biased low
    - The drain sludge is a TRU waste (i.e. < 100 nCi Pu^{238}/g)
  - The Am^{241} indicates that standard weapons grade Pu may also present
    - will take an alpha energy spectral analysis to determine
      - Pu^{239} gamma emissions inadequate for gamma isotopic

Reference F

ACTION MEMORANDUM/ENGINEERING EVALUATION/COST ANALYSIS

REMOVAL ACTION BUILDING H HOT LAUNDRY

MOUND PLANT MIAMISBURG, OHIO

JANUARY 1999

Final

(Revision 0)

Department of Energy

Babcock & Wilcox of Ohio

ENVIRONMENTAL RESTORATION PROGRAM

PROPOSED

ACTION MEMORANDUM
ENGINEERING EVALUATION/COST ANALYSIS

REMOVAL ACTION
BUILDING H HOT LAUNDRY

MOUND PLANT
MIAMISBURG, OHIO

May, 1998

PREPARED BY:

Babcock & Wilcox of Ohio, Inc.
P.O. Box 3030
Miamisburg, Ohio 45343-3000

for the

U.S. DEPARTMENT OF ENERGY

Responsiveness Summary

The Mound Core Team
P.O. Box 66
Miamisburg, Ohio 45343-0066

August 24, 1998

Mr. Stan Abrahamson
Property Manager
Miamisburg Mound Community Improvement Corporation
720 Mound Road
Miamisburg, Ohio 45342-6714

Dear Mr. Abrahamson:

The Core Team, consisting of the U.S. Department of Energy Miamisburg Environmental Management Project (DOE-MEMP), U.S. Environmental Protection Agency (USEPA), and the Ohio Environmental Protection Agency (OEPA), appreciates your comments on the Action Memorandum/Engineering Evaluation/Cost Analysis for the Building H Hot Laundry Removal Action. We agree with your comment that if the ultimate disposition of the building changes to demolition, the decontamination activities would be significantly redesigned to be consistent with full demolition.

Should this response to your comment require additional detail, please contact Art Kleinrath at (937) 865-3597 and we will gladly arrange a meeting or telephone conference.

Sincerely,

DOE/MEMP: Arthur W. Kleinrath
Arthur W. Kleinrath, Remedial Project Manager

USEPA: Timothy J. Fischer
Timothy J. Fischer, Remedial Project Manager

OHIO EPA: Brian K. Nickel
Brian K. Nickel, Project Manager

MIAMISBURG
Mound
COMMUNITY
IMPROVEMENT
CORP

720 Mound Road
COS Bldg. 4221
Miamisburg, Ohio
45342-6714

937-865-4462
937-865-4431 *fax*

Board of Trustees
John K. Weithofer, *Chairman*
James H. Van Tassel, *Vice Chairman*
George S. Perrine, *Secretary*
Richard C. Church, Jr.
Donald L. Koller
Robert A. Lowden
Robert Bell

MIAMISBURG
EDA B-01654
JUL 13 4 55 PM '98
244139

July 8, 1998

Mr. Paul Lucas
U.S. Department of Energy
P.O. Box 66
Miamisburg, Ohio 45343-0066

Re: Comments Regarding the Building H Hot Laundry Action Memorandum and Engineering Evaluation/Cost Analysis

Dear Mr. Lucas:

The Miamisburg Mound Community Improvement Corporation (MMCIC) appreciates the opportunity to provide input to the review process for the Building H Hot Laundry Action Memorandum and Engineering Evaluation/Cost Analysis. Our comments are included on the attached sheets. For your convenience, we have arranged the comments in two categories labeled "Substantive" and "Errata." The "Substantive" comments are ones that we believe are critical to our interpretation of the document. "Errata" are comments of an editorial nature and do not have a significant impact on the document.

We will be pleased to provide any additional information that you may require. If you have any questions, please contact Jennifer Vicarel at EHS Technology Group (865-3943) or me at 865-4003.

Sincerely,

Stanley J. Abrahamson

Stan Abrahamson
Property Manager

xc: Art Kleinrath, DOE

Located Within
The Mound
Advanced
Technology Center

Substantive Comments

1. We do not have any substantive comments regarding the Building H Hot Laundry Action Memorandum and EE/CA, other than that the removal action is designed in two phases with the ultimate goal of decontaminating Building H and transferring it to MMCIC. MMCIC, however, does not wish to receive Building H, and has requested that it be demolished. If demolition is eventually selected as the ultimate disposition of Building H, some of the building decontamination activities should be redesigned to be consistent with full demolition of the building, rather than with occupation by an industrial business (i.e., asbestos pipe insulation would need to be removed rather than repaired or encapsulated in place as currently planned.)

Errata

1. No Comments.

Responsiveness Summary

The Action Memorandum/Engineering Evaluation/Cost Analysis for the Building H Hot Laundry was available for public review and comment from June 10, 1998 to July 10, 1998. Comments were received from MMCIC. The core team's response to comments and the comments themselves are presented in this responsiveness summary.

TABLE OF CONTENTS

1. PURPOSE 1-1

2. SITE CONDITIONS AND BACKGROUND 2-1
   2.1. SITE DESCRIPTION 2-1
      2.1.1. Physical Location 2-1
      2.1.2. Site Characteristics 2-1
      2.1.3. Current Conditions 2-2
      2.1.4. Release or Threatened Release into the Environment 2-7
      2.1.5. National Priorities List Status 2-7
   2.2 OTHER ACTIONS TO DATE 2-7
      2.2.1. Previous Removal Actions 2-8
      2.2.2. Current Actions 2-8
   2.3. STATE AND LOCAL AUTHORITIES' ROLES 2-8
      2.3.1. State and Local Action to Date 2-8

3. THREAT TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT 3-1
   3.1. THREATS TO PUBLIC HEALTH OR WELFARE 3-1
   3.2. THREATS TO THE ENVIRONMENT 3-1
      3.2.1. Removal Site Evaluation 3-1

4. ENDANGERMENT DETERMINATION 4-1

5. PROPOSED ACTION AND ESTIMATED COSTS 5-1
   5.1. PROPOSED ACTION 5-1
      5.1.1. Proposed Action Description 5-1
         5.1.1.1. Rationale, Technical Feasibility, and Effectiveness 5-4
         5.1.1.2. Monitoring 5-4
         5.1.1.3. Uncertainties 5-4
         5.1.1.4. Institutional Controls 5-4
         5.1.1.5. Post-Removal Site Control 5-4
         5.1.1.6. Cross-Media Relationships and Potential Adverse Impacts 5-4
      5.1.2. Contribution to Future Remedial Actions 5-5
      5.1.3. Description of Alternative Technologies 5-5
         5.1.3.1. No Action 5-5
         5.1.3.2. Institutional Controls 5-5
      5.1.4. Engineering Evaluation/Cost Analysis (EE/CA) 5-6
      5.1.5. Applicable, or Relevant and Appropriate Requirements (ARARs) 5-6
         5.1.5.1. Air Quality 5-6
         5.1.5.2. To Be Considered 5-6
         5.1.5.3. Worker Safety 5-6

5.1.6. Other Standards and Requirements 5-7
5.1.7. Project Schedule 5-7
5.2. ESTIMATED COSTS 5-7

6. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN 6-1

7. OUTSTANDING POLICY ISSUES 7-1

8. ENFORCEMENT 8-1

9. RECOMMENDATION 9-1

10. REFERENCES 10-1

List of Figures

Figure 2.1 Location of Building H 2-5

Figure 2.2 H-Building Laundry Drains and Associated Plumbing 2-6

Figure 5.1 Planning and Implementation Schedule 5-9

List of Tables

Table 2.1 Radiological Characterization Summary 2-4

Table 3.1 Evaluation of Removal Action Appropriateness 3-2

Table 5.1 Removal Action Cost Estimate 5-8

ACRONYMS

AEC	Atomic Energy Commission
AM	Action Memorandum
ARARs	Applicable or Relevant and Appropriate Requirements
BGS	Below Ground Surface
BVA	Buried Valley Aquifer
CERCLA	Comprehensive Environmental- Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
D&D	Decontamination and Decommissioning
DOE	Department of Energy
EE/CA	Engineering Evaluation/Cost Analysis
EPA	Environmental Protection Agency
ER	Environmental Restoration
FFA	Federal Facilities Agreement
FSP	Field Sampling Plan
ID	Identification
LSA	Low Specific Activity
mrem	millirem
MSL	Mean Sea Level
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NTS	Nevada Test Site
OAC	Ohio Administrative Code
OEPA	Ohio Environmental Protection Agency
OU	Operable Unit
OSC	On-Scene Coordinator
OSHA	Occupational Safety and Health Administration

ACRONYMS

pCi/g	picocuries per gram
PRS	Potential Release Site
RCRA	Resource Conservation and Recovery Act
RESRAD	Residual Radioactive Material Program
RI/FS	Remedial Investigation/Feasibility Study
RSE	Removal Site Evaluation
SARA	Superfund Amendments and Reauthorization Act
SW	Semi-Works
TRU	Transuranic
USEPA	United States Environmental Protection Agency

1. PURPOSE

The U.S. Department of Energy (DOE), U.S. Environmental Protection Agency (USEPA) and the Ohio Environmental Protection Agency (OEPA) have agreed on an approach for decommissioning surplus DOE facilities consistent with the requirements of the ***Policy on Decommissioning of Department of Energy Facilities*** under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) dated May 22, 1995. According to this approach, decommissioning activities will be conducted as CERCLA removal actions, unless the circumstances at the facility make it inappropriate (DOE 1995). The DOE is the designated lead agency and removal actions at the Mound Plant are implemented as non-Superfund, federal-lead actions. DOE provides the On-Scene Coordinator (OSC). Non-Superfund, federal-lead removal actions are not subject to United States Environmental Protection Agency (USEPA) limitations on the OSC ($50,000 authority) and are not subject to National Oil and Hazardous Substances Pollution Contingency Plan (NCP) limitations on removal actions (i.e., $2,000,000 in cost and 12 months in duration).

This Action Memorandum (AM), Engineering Evaluation/Cost Analysis (EE/CA) has been completed to document the evaluation of site conditions and to propose the removal action described herein.

2. SITE CONDITIONS AND BACKGROUND

2.1. SITE DESCRIPTION

This section describes the physical site location, site characteristics, release of contaminants into the environment and the site's National Priorities List (NPL) status.

2.1.1. Physical Location

The Mound Plant is a 306-acre site on the south border of the city of Miamisburg in Montgomery County, Ohio. The site is approximately 10 miles south-southwest of Dayton and 45 miles north of Cincinnati. The specific location of the proposed removal action is the Hot Laundry area of Building H. This location is identified in Figure 2.1.

2.1.2 Site Characteristics

H Building was constructed in 1948 as one of the original group of buildings at Mound. It housed the laundry facilities for both uncontaminated (cold) and contaminated (hot) clothing. Process water generated from the laundry was collected in a holding tank on the "hot" side of the building, then drained through a pipe to a lift station at SW Building. In 1993, washable clothes used for "hot" work were replaced with disposable clothing which allowed the waste water from the laundry to be diverted to the sanitary disposal plant, Building 57. In addition to the laundry, the building previously held a small maintenance shop. The maintenance shop has been removed and is currently used by the bioassay and gamma spectroscopy laboratories, also housed in the building, as a storage area. The credit union and a set of change rooms are currently located in H Building, as well. H Building is known to be contaminated with radioactive materials.

H Building is a one-story structure with a penthouse. The walls are constructed of reinforced concrete block with a brick face exterior, the roof is made of a metal with a built-up membrane. H Building contains 17,334 square feet. The building is bordered by a sidewalk on the north, east and south sides. It shares a corridor with B Building on its west side. Adjacent building are A Building to the north, E Building to the south, M Building to the east and B Building to the west.

H Building is currently scheduled to be decontaminated and transitioned over to Miamisburg Mound Community Improvement Corporation (MMCIC). This is planned to happen in two distinct phases. This Action Memorandum covers the work in Phase I. Phase I covers only the decontamination of the Hot Laundry and

repair of any asbestos hazards while Phase II will cover the removal of any property or equipment not to be turned over to MMCIC. Phase II will also cover any decontamination outside the walls of Building H but within the buildings 15 foot perimeter.

The washers and dryers that are currently in use were never contaminated and are located inside a non-RMMA (Radiological Material Management Area) and therefore do not require radiological surveys. There were characterizations performed on the drain lines in this area, with the results being negative. The disposition of the washers and dryers is being handled via the Mound Reportable Excess Automated Property System (REAPS) program.

2.1.3 Current Conditions

The laundry, credit union, male and female change rooms, and the bioassay and gamma spectroscopy laboratories are all currently housed in H Building. All material, equipment and systems necessary to maintain these will remain operable until their mission is discontinued or moved to another facility. Surplus materials, excess equipment and abandoned systems will be removed from the building.

Steam for heating is provided to H Building via an underground concrete trench of utility piping running from the powerhouse, P Building. Ventilation is provided to the building by a roof mounted HVAC system. Potable water and sanitary services are provided by means of the Mound Plant underground domestic water lines and an on-site sanitary and storm water sewer treatment plant, Building 57. The wastewater currently generated in the building is laundry or sanitary water.

The building contains two sumps, one in the corridor which is used to collect steam condensate. It will remain in place. The other, a double contained sump, is located in H-133 of the laundry and is no longer used. This sump and its associated piping will be removed as a part of this project.

Radiological Characterization

Building H has undergone an indepth radiological characterization effort to perpare for the Phase I of the decontaminatin process. The characterization identified several areas of fixed and loose contamination. A summary of those findings can be seen in Table 2.1, **Radiological Characterization Summary, Building H**. Figure 2.2, **H- Building Laundry Drains and Associated Plumbing**, shows the existing floor plan of the Building H Laundry along with the existing drain system. The only drains that have the potential for being contaminated are in rooms H-131, 132, 133 and 134.

Asbestos Survey

Asbestos sampling results indicate Asbestos Containing Material (ACM) in the pipe insulation. The walls and ceiling material were re-sampled and the results confirmed that they are free of ACM. Areas with damaged asbestos material will be repaired, as necessary. Industrial Hygiene will be working with the project until all pipe insulation is repaired or removed. Asbestos sampling results and information relative to the asbestos repair quantification and assessment summary of H building are available in the H Building Project File.

Lead Survey

Recent survey and sampling results indicate no lead in the paint, however, the cast iron drain piping contains lead seals. At least two drains inside the building are known to be radiologically contaminated . If the cast iron drain piping associated with these drains is also found to be contaminated, it will be removed and disposed of as radioactive or mixed waste. Sampling results are available in the H Building Project File.

Monitoring Requirements

Asbestos will be monitored with the frequency to be determined by the Mound Industrial Safety and Health Department.

Table 2.1 Radiological Characterization Summary
Building H

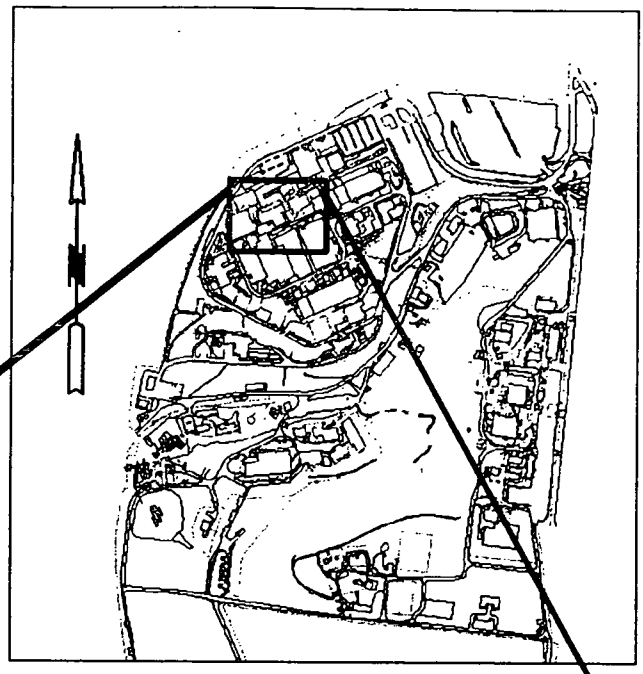
Type	RSDS	Location	Amount (dpm/100 cm2)	5400.5 Guidelines for Groups 1,3,4 (fixed + loose) (dpm/100 cm2)	NUREG 1500 Guidelines (loose) (dpm/100 cm2)	Attachment 1 Limit (fixed + loose) (See Note 2) (dpm/100 cm2)	Comments
Highest Alpha Smear Activity	98-H-003-MR 98-H-023-MR	H-133 floor H-206 wall	27- both locations.	20	211	20	Contamination to be removed.
Highest Alpha Fixed Activity	98-H-003-MR	H-133 floor	140k	100	Note 1	100	Entire floor to be removed.
Highest Beta Smear Activity	All	All	<1000	1,000	9940	1,000	No Action Necessary
Highest Beta Fixed Activity	98-H-033-MR	Top of light fixture	9.4k	5,000	Note 1	5,000	Light to be removed.
Highest Tritium Smear Activity	All	All	<1000	1,000	Note 1	1,000	No Action Necessary
Water Sample Sump H-133	98-H-006-MR	Sump (H-133)	11.53 nCi/L Trit <2.22 dpm/cc α < 15 nCi/L α	DCG's 2000 nCi/L Trit 2 dpm/cc α (Pu)	MCL'S SEE NOTE 3	N/A	No Action Necessary
Sludge Sample H-133 Sump	98-H-040-MR	Sump (H-133)	400 pCi/g Pu238 234k pCi/g Trit	N/A	N/A	N/A	Note 4, Remove as LSA Waste

Note 1 NUREG-1500 gives guidelines for loose beta and alpha only.
Note 2 Limits are based on MD-80043, Radiological Work Requirements Procedure 400 "Transfer of Radioactive Material and Unrestricted Release of Property/Waste" Attachment 1.
Note 3 MCL's taken from National Primary Drinking Water Regulations 40 CFR part 141 subpart B .16. For gross alpha, 15 pCi/L
For Tritium, from Table "A" 20,000 pCi/L average annual concentration would result in a whole body dose equivalent of 4 mrem.
Note 4 Risk-Based Guideline Values, 1 x 10^{-5} Pu=55 pCi/g and H^3= 235,000 pCi/g

Mound Plant

H Building Environmental Laboratories, Laundry, Change Rooms

On the map below:
- **Building number and location shown in black.**
- **PRS locations and numbers shown in blue.**
- **Surrounding buildings shown in green.**
- **Fencing shown in red.**
- **Elevation contours shown in brown.**



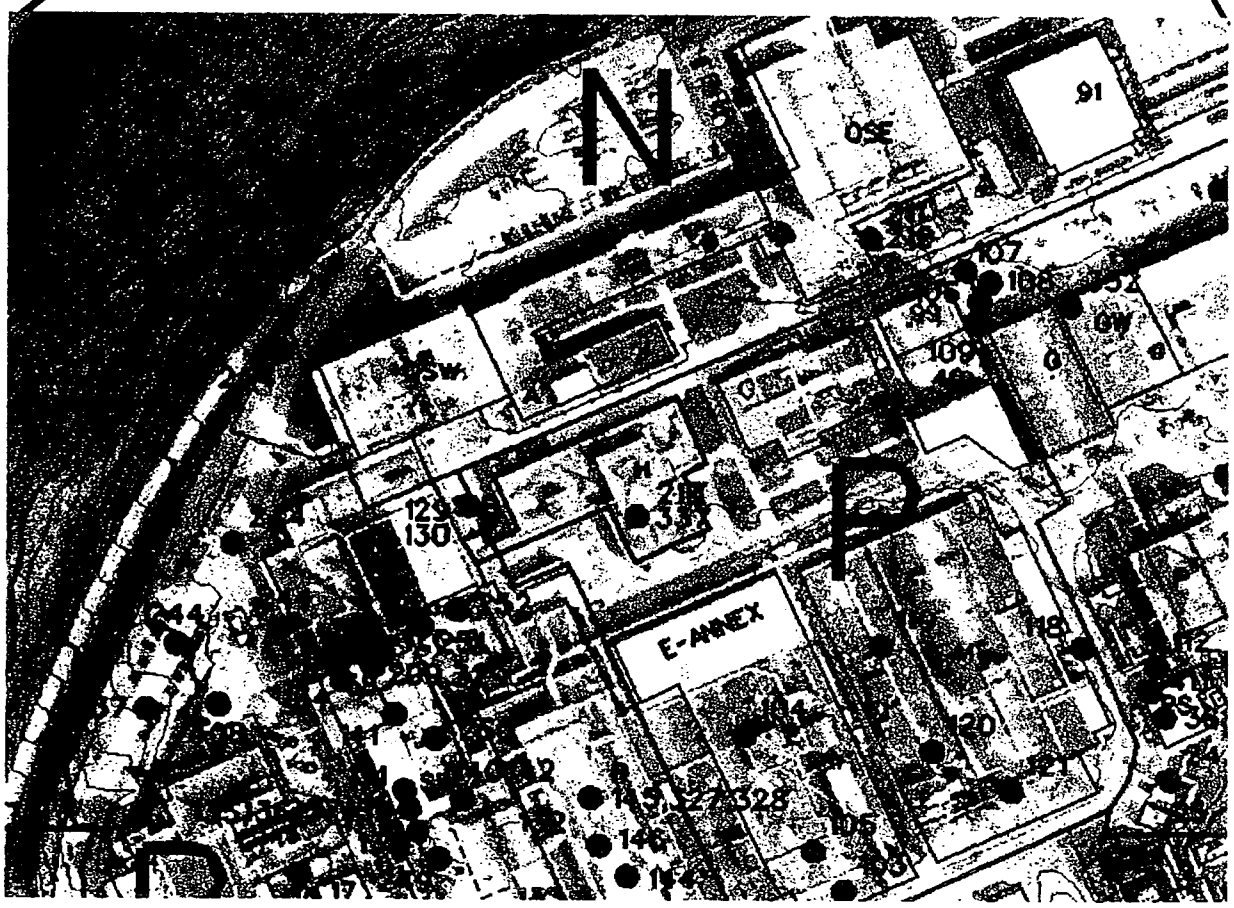
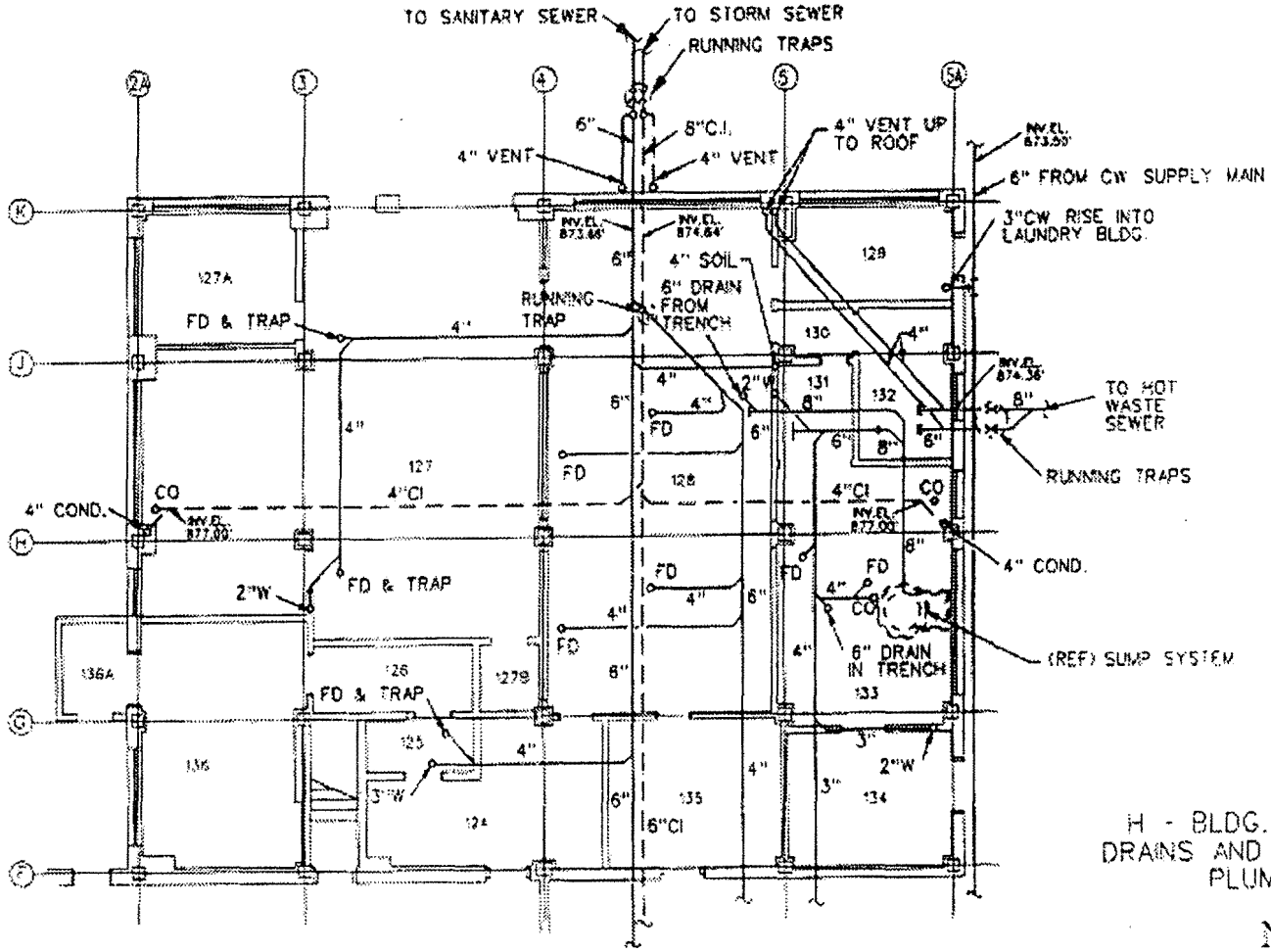


Figure 2.1 Location of H Building



H - BLDG. LAUNDRY DRAINS AND ASSOCIATED PLUMBING

N

UNC

2.1.4. Release or Threatened Release into the Environment

The hazardous materials found in H Building laundry area are Asbestos Containing Material (ACM), lead, and PCBs. There is ACM in the pipe insulation, vibration cloth and explosive light gaskets. Damaged ACM will be repaired or removed, as necessary. There are lead seals inside the cast iron drain piping joints. Contaminated drain piping associated with the laundry will be removed during decontamination activities and disposed of as radioactive waste. Equipment remaining inside the building containing refrigerants or hydraulic fluids and the florescent light ballast suspected of containing PCBs will remain in place. There are no hazardous process chemicals being used or stored in the Hot Laundry area of the building.

The radiation surveys of Building H indicate several areas of fixed and loose contamination. The primary isotope of concern is Pu-238, with traces of Am-241, Co-60 and tritium (H^3) also detected. The cleanup goal for these isotopes will be that established in DOE 5400.5 and the Regulatory Guide 1.86. The Mound Risk-Based Methodology will be used to determine the final cleanup values for the area of evaluation prior to the issuance of a Record of Decision (ROD), which supports the transfer of property. The cleanup value for soil will follow the Risk-Based Guideline values, which are 1×10^{-5} risk for Pu-238=55pCi/g, Am-241=49.5 pCi/g, Co-60=1 pCi/g and H^3=235,000 pCi/g.

The potential release of radioactive contamination has prompted this removal action.

2.1.5. National Priorities List Status

The EPA placed the Mound Plant in Miamisburg, Ohio on the NPL by publication in the Federal Register on November 21, 1989.

2.2 OTHER ACTIONS TO DATE

The Mound Plant initiated a CERCLA program in 1989, now guided by the agreement between the DOE, Ohio Environmental Protection Agency (OEPA), and US EPA. A Federal Facilities Agreement (FFA) under CERCLA Section 120 was executed between DOE and US EPA Region V on October 12, 1990. It was revised on July 15, 1993 (EPA Administrative Docket No. OH 890-008984) to include OEPA as a signatory. The general purposes of this agreement are to:

- Ensure that the environmental impacts associated with past and present activities at the site are thoroughly investigated and appropriate remedial action taken as necessary to protect the public health, welfare, and the environment.

- Establish a procedural framework and schedule for developing, implementing, maintaining, and monitoring appropriate response actions at the site in accordance with CERCLA, Superfund Amendments and Reauthorization Act (SARA), the NCP, Superfund guidance and policy, and Resource Conservation and Recovery Act (RCRA) guidance and policy.

- Facilitate cooperation, exchange of information, and participation of the parties in such actions.

2.2.1. Previous Removal Actions

No previous removal actions have been performed at Building H.

2.2.2. Current Actions

The Core Team, consisting of the DOE, USEPA and OEPA, was presented a proposal by the B&W of Ohio Main Hill Rad Project Team for the decontamination of the H Building Hot Laundry. The Core Team recommended the action proceed as a CERCLA Removal Action and that an Action Memorandum be written and submitted for approval by DOE/USEPA/OEPA and ODH, as well as a 30-day Public Comment Period before work could commence.

Asbestos piping insulation and florescent light ballasts containing PCBs will not be removed as part of the decontamination process, unless they present an immediate hazard. If these materials have to be removed they will be disposed of according to the appropriate regulations.

All materials and equipment have been removed from the Building H, Hot Laundry, except for the following: several washers and dryers being used by the Cold Laundry, some remaining furniture, windows, doors, plumbing fixtures, ceiling and floor tile, heating units and their associated duct work.

Building H has potable water, compressed air, telephone, computer network connections, fire alarm, steam, storm sewer, and sanitary sewer services. Building H also has electricity and fire sprinkler systems. All these services will be terminated and isolated outside the area to be decontaminated.

2.3. STATE AND LOCAL AUTHORITIES' ROLES

2.3.1. State and Local Action to Date

In 1989, as a result of Mound Plant's placement onto the NPL, DOE and USEPA entered into a FFA which specified the manner in which the Mound CERCLA-based Environmental Restoration (ER) program was to be implemented. In 1993, the FFA was amended to include the OEPA. Under the ER program, DOE remains the lead agency.

3. THREAT TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT

3.1. THREATS TO PUBLIC HEALTH OR WELFARE

The potential release of radioactive contamination may create a potential threat to the public health or welfare.

3.2. THREATS TO THE ENVIRONMENT

The potential release of radioactive contamination may create a potential threat to the environment.

3.2.1. Removal Site Evaluation

The Removal Site Evaluation (RSE) requirements, as outlined under EPA's NCP regulations in 40 CFR 300.415, are, presented throughout this AM/EECA.

An evaluation by public health agencies has not been performed for this area, and, therefore, is not included in this AM/EECA. The determination of the need for a removal action is outlined in this section, in Table 3.1.

The NCP identifies eight factors that must be considered in determining the appropriateness of a removal action [40 CFR 300.415(b)(2)]. These criteria are evaluated in Table 3. 1.

Table 3.1 Evaluation of Removal Action Appropriateness Criteria [40 CFR 300.415(b)(2)]

Criteria		Evaluation
(I)	"...potential exposure to nearby human populations, animals, or the food chain..."	None.
(ii)	"Actual or potential contamination of drinking water supplies..."	There is the potential that contaminated drain lines have leaked into the ground at the floor drains in Building H. There is the potential for radioactive alpha contamination to be present in the soil near the drain lines and beneath the floor.
(iii)	"Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release;"	None.
(iv)	"High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate;"	None.
(v)	"Weather conditions that may cause hazardous substances to migrate or be released;"	None.
(vi)	"Threat of fire or explosion;"	None.
(vii)	"The availability of other appropriate federal or state response mechanisms to respond to the release;" and	There is a state mechanism and other federal mechanisms established in the form of the Federal Facilities Agreement (FFA). DOE is the designated lead agency at Mound under CERCLA.
(viii)	"Other situations or factors that may pose threats to public health or welfare or the environment."	Building H surveys indicate some areas of fixed radiological contamination and a few areas of loose . There were no indications of stains from hazardous chemicals spills.

4. ENDANGERMENT DETERMINATION

As Building H is currently configured and access controlled, there is no known actual or threatened releases of pollutants or contaminants from this site that would pose an endangerment to public health or welfare or the environment. However, to eliminate the possibility of endangerment as the site transfers from DOE ownership and control, DOE has determined that removal of the contaminants is appropriate.

The location referred to is that of H Building. The work proposed in Phase I of the decontamination effort for Building H will be performed per Mound, OSHA, USEPA, OEPA, ODH and DOE requirements to minimize any release.
Once the decontamination is complete the risk will be eliminated. The building will be verified clean then go through the binning process and be turned over to DOE. DOE would then transition it to MMCIC.

5. PROPOSED ACTION AND ESTIMATED COSTS

5.1. PROPOSED ACTION

The proposed action is to perform Phase I of the two phases of the Building H Project in preparation to turn this building over to MMCIC. The objective of Phase I of Building H Decontamination Project is to perform a partial decontamination of Building H in accordance with all DOE, OSHA, OEPA, USEPA, ODH, and other applicable procedures, regulations and requirements. The target area of the Phase I activities is the removal of contamination and hazards that are associated with the laundry area. This includes the drain lines, duct work, filter bank and the metal stack. These items expand the scope of this project beyond the physical laundry rooms.

5.1.1. Proposed Action Description

Site Preparation

This step includes establishing work area boundarys, radiological posting, radiological barriers with the necessay containment and exhausting, access and egress routes, material and supply storage, waste container staging and placement of all necessary permits.

Building Preparation

This includes the establishing of evauation routes and assembly points, disconnect utility feeds to all abandoned equipment and systems, remove excess equipment and material, remove designated asbondoned systems, process and utility piping and conduit and repair or remove Asbestos Containing Material (ACM), as necessary.

Building Decontamination

Phase I will include the following activities:

1. Repair damaged ACM piping insulation throughout the building.
2. Remove abandoned systems, excess equipment and surplus materials.
3. Remove filter bank and associated contaminated duct work in the penthouse.
4. Remove metal stack on the roof above the penthouse.
5. Remove overhead waste water line in the breezeway.
6. Remove contaminated drains and associated piping in the floors of H-129, 130, 131, 132, 133 and 134, as necessary .
7. Remove the sump (PRS 210) and associated piping in H-133.
8. Remove soil under the sump, if contaminated.
9. Decon the walls and floors, as necessary in H-129, 130, 131, 132, 133 and 134.
10. Decontaminate areas of fixed contamination outside the Radiological Material Management Area (RMMA), i.e., the air exhaust vent covers in H-127 and 127A.

Building Decontamination

During decontamination activities, continuing inspections by the Project Supervisor will be made as the work progresses to detect hazards resulting from weakened or deteriorated floors, walls or loosened material.

Mobilization
This activity will include the set-up of the decontamination airlocks, portable HEPA exhauster, a staging area and relocate equipment to the demolition site, waste load out area and arrange delivery of waste container(s) to site, monitoring equipment and water misters.

Stack Removal
This activity will be to perform the Hot Laundry exhaust stack removal along with its associated duct work and size reduce them for disposal.

Removal of Hot Laundry Filterbank
This activity will consist of removing filters from the filterbank and their disposal as radioactive waste, if contaminated. The survey and wipe down of previously inaccessible surfaces (empty filter area) would be performed. The filterbank duct work would then be removed, if contaminated.

Waste Water Line
This activity covers the removal of the waste water line from H-133 to the Building B Corridor.

Decontaminate Walls
The walls of the laundry area will be decontaminated as necessary via wet wiping or mechanical means.

Decontaminate Floors (Rooms 129, 130, 131 and 132)
This covers the removal of any fixed contamination on the H-129, 130, 131 and 132 floors via mechanicl means. Any excess dust material, will be removed using a HEPA filtered vacuum. Based on the radiological surveys and the earlier decontamination effort of *Environmental Extraction Technology, Inc. (EET)* the bulk of the contamination is in the grout, between the clay tile and the concrete floor. The tile will be removed and the floor and soil decontaminated and /or removed as far as necessary to release the building.

Remove H-133 Sump
Remove the sump from the floor of H-133. Note this sump represents PRS 210. If contaminated the sump and its associated piping will be size reduced and disposed of

40

as radioactive waste.

Decontaminate Floors (Room 133 and 134)
This activity covers the removal of any contamination above the re-use release limits and its disposal as radioactive waste.

Remove and Replace Drains
This activity consists of digging out and replacement of the drains and associated piping (if contaminated) in H-129, 130, 131, 132, 133 and 134. Some piping may no longer be required, therefore, it will not be replaced. This also covers the removal of any contaminated subsoil and replacing subsoil and floors as necessary.

The H Building drain lines will only be removed if they are contaminated above the DOE 5400.5 and Regulatory Guide 1.86 release limits. Any drains to be removed will be removed up to where they penetrate the foundation. The removal of any lines or soil contamination outside the building but, within the 15 foot perimeter will be performed as part of the Phase II activities. Any contaminated soil or drains outside the 15 foot perimeter will be removed as part of the Soils Project. All excavated soil contaminated above the radiological release limits will be disposed of as radioactive waste.

Soil samples from around the drain lines outside the building wall show no contamination. When the lines inside the building are removed, radiological surveys and samples will be taken of the remaining lines within the 15 foot perimeter to determine if contamination exists.

Site Restoration
This activity includes reducing the work zone area and the placement of the area in a safe condition until the start of Phase II. Equipment, materials, waste containers, and boundaries will be removed. Any excavated area outside the building walls will be backfilled and compacted to the original contour and elevation and remain in this condition until the start of Phase II.

Verification
A Verification Plan will be developed to identify what, if any, contaminants are present. The Verification Plan will also identify the steps to determine the concentration of those contaminants to compare to appropriate risk based guideline criteria and ARARs. The On-Scene Coordinator Report will document the existence of any contamination and completion of the removal action.

Project Closure
All project documentation should be forwarded to the Project Engineer and

maintained in the project file. Upon completion of the project, the project notebook or a copy of the project records should be forwarded to the document management system. This is to be accomplished in a radiologically and otherwise safe manner to avoid future maintenance cost and eliminate potential negative impacts to personnel and the environment. Land within the project boundaries is designated for future industrial land use after decommissioning and decontamination activities are complete. The boundary of this project, Phase I and Phase II, includes the entire footprint of Building H, including a 15 foot perimeter surrounding the buildings.

5.1.1.1. Rationale, Technical Feasibility, and Effectiveness

The removal action chosen is necessary for the removal of known contamination and to ensure that migration of the contamination does not occur.

5.1.1.2. Monitoring

Health and safety monitoring will be performed throughout the removal action according to standard Mound procedures. Sampling and analysis of excavated soil will be described in more detail in the Work Plan for Building H.

5.1.1.3. Uncertainties

The major uncertainties are the levels and extent of radiological contamination in and beneath the Hot Laundry floor. The minor uncertainties include location of utilities in the area of the project.

5.1.1.4. Institutional Controls

The institutional controls of Building H have yet to be resolved.

5.1.1.5. Post-Removal Site Control

Post removal site control will has yet to be resolved.

5.1.1.6. Cross-Media Relationships and Potential Adverse Impacts

The potential cross-media impact associated with the removal action is the potential for unintended release of contaminated materials into the atmosphere. Careful monitoring and control by misting will be implemented during the removal action.

No potential adverse impacts of the removal action have been identified.

5.1.2. Contribution to Future Remedial Actions

To facilitate further assessments in or near the site of the removal action, the exact dimensions of the excavation and the levels of contamination identified and removed will be documented. The excavation will be documented by utilizing photographs, record drawings, the OSC report, and other information collected during the removal action.

Because the Mound Plant is anticipated to be cleaned up by removal actions, this clean-up is planned to be Phase I of a two phase remediation and transition for Building H. The information obtained, as a result of this removal, will be used in determining the availability for final disposition of the Mound site and will be subject to review in the subsequent risk evaluation.

5.1.3. Description of Alternative Technologies

Alternative technologies frequently evaluated for CERCLA remediation include institutional controls, containment, collection, treatment, and disposal. Based on the prevailing conditions, the following alternatives (in addition to the proposed alternative of excavation) were developed.

1. No Action
2. Institutional Controls

The performance capabilities of each alternative with respect to the specific criteria is discussed below.

5.1.3.1. No Action

The "No Action" approach was eliminated. It is not appropriate to leave radioactive contamination of the level found in the Hot Laundry in place.

5.1.3.2. Institutional Controls

Existing Mound Plant institutional controls effectively minimize the potential for contact of the subject contamination with the general public. However, institutional controls for events such as renovation, removal, or demolition will be difficult to implement, when industrial use of adjacent

areas is permitted. Thus, institutional controls were eliminated from further consideration.

5.1.4. Engineering Evaluation/Cost Analysis (EE/CA)

This document serves as the action memo and the EE/CA.

5.1.5. Applicable, or Relevant and Appropriate Requirements (ARARs)

Mound ARARs for the ER Program have been identified (DOE 1993). CERCLA regulations require that removal actions comply with ARARs.

The following ARARs are of special interest to the Building H removal action:

- 49 C.F.R. 172, 173: DOT hazardous material transportation and employee training requirements.

5.1.5.1. Air Quality

- 40 C.F.R. Part 61 Subpart H: National Emissions Standards for Emissions of Radionuclides other than Radon from Department of Energy Facilities.
- Ohio Administrative Code (O.A.C.) 3745-15-07(A): Air Pollution Nuisances Prohibited.
- O.A.C. 3745-17-02 (A,B,C): Particulate Ambient Air Quality Standards
- O.A.C. 3745-17-05: Particulate Non-Degradation Policy
- O.A.C. 3745-17-08: (A)(1), (A)(2), (B),(D): Emission Restrictions for Fugitive Dust

5.1.5.2. To Be Considered

- EPA/230/02-89/042: Methods for Evaluating the Attainment of Cleanup Standards.
- DOE 5400.5 and Regulatory Guide 1.86

5.1.5.3. Worker Safety

- 29 C.F.R. Part 1910: Occupational Safety and Health Act OSHA) - General Industry Standards
- 29 C.F.R. Part 1926: OSHA - Safety and Health Standards
- 29 C.F.R. Part 1904: OSHA - Record keeping, Reporting, and Related Regulations

5.1.6. Other Standards and Requirements

Other standards or requirements related to the actual implementation of the response action may be identified subsequently during the design phase and will be incorporated into the Work Plan for Building H decontamination.

5.1.7. Project Schedule

The schedule established for planning and implementing the removal action is shown in Figure 5.1.

5.2. ESTIMATED COSTS

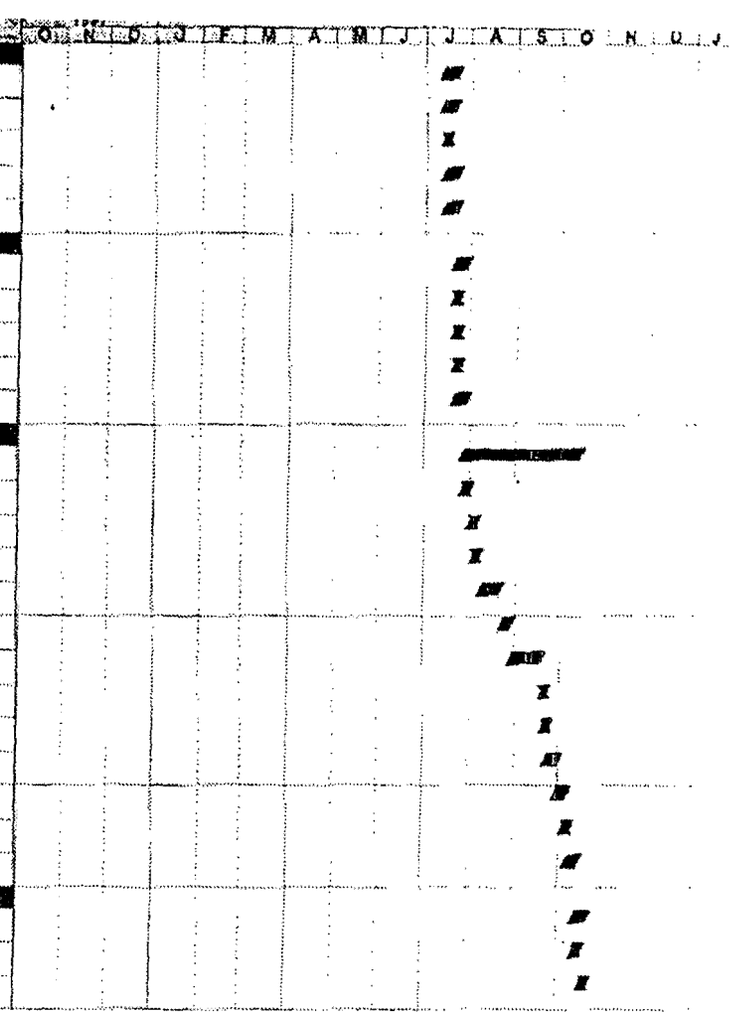
The cost estimate to perform the removal action is shown in Table 5.1. Costs include the construction activities, all engineering and construction management, waste disposal, and site restoration.

TABLE 5.1 REMOVAL ACTION COST ESTIMATE

ESTIMATE TOTALS

Work Plan and HASP	24,500.
Action Memorandum	1,500.
Core Team / Public Review	1,000.
Characterization	5,000.
Site Prep & Work Zones	10,000
Equipment & Stack Removal	50,000.
Decontamination of Hot Laundry	120,000.
Characterize soil	5,000
Remediation: floor/ soil/	15,000.
Verification	4,000.
Waste Disposal and Transportation	4,000.
OCR Report	5,000
TOTAL (1998 dollars)	$245,000.

Activity ID	Description	Dur	Start	Finish	
Site Preparation					
SPHA1000	SITE PREPARATION	5*	14JUL98	21JUL98	1
SPWK1010	Coordinate with Fire Dept, Transp, Bldg Mangr	4	14JUL98*	20JUL98	1
SPWK1020	Pre-Construction Meeting	1	15JUL98	15JUL98	1
SPWK1030	Obtain Required Permits	4	15JUL98	21JUL98	1
SPWK1040	Identify & Isolate Underground Utilities	4	15JUL98	21JUL98	1
Building Preparation					
BPHA1000	BUILDING PREPARATION	4*	22JUL98	28JUL98	2
BPWK1010	Establish Work Zones	2	22JUL98	23JUL98	2
BPWK1020	Disconnect Electrical Feeds to Building	2	22JUL98	23JUL98	2
BPWK1030	Remove Excess Equipment	2	22JUL98	23JUL98	2
BPWK1040	Rem/Repair Damaged Asbestos Containing	4	22JUL98	28JUL98	2
Building Decontamination					
BDHA1000	BUILDING DECONTAMINATION	44*	29JUL98	13OCT98	3
BDWK1010	Mobilization	2	29JUL98	30JUL98	3
BDWK1020	Rem Steel Stack & Associated Duct Work	2	03AUG98	04AUG98	3
BDWK1030	Decontaminate Filter Banks	2	05AUG98	06AUG98	3
BDWK1040	Decon Walls/Cvr Walls Rm	8	10AUG98	20AUG98	3
BDWK1050	Rem Clay Bricks&Scan Firs for Electro Rm	4	24AUG98	27AUG98	3
BDWK1060	Decon Floors Rm 129,130,131,132,133,134	12	31AUG98	17SEP98	3
BDWK1070	Saw cut Perimtr&Rmd Sprinklr Hd&Sump Rm	1	21SEP98	21SEP98	3
BDWK1071	Remove Sump & Associated Piping	1	22SEP98	22SEP98	3
BDWK1080	Rem Contaminated Concrete	4	23SEP98	29SEP98	3
BDWK1090	Rem/Rplc Drains & Associated Piping Rm	3	30SEP98	05OCT98	3
BDWK1100	Rem Contaminated Subsoil	2	06OCT98	07OCT98	3
BDWK1110	Replace Subsoil and Re-pour Floor - Phase II	3	08OCT98	13OCT98	3
Site Restoration					
SRWK1000	SITE RESTORATION	4*	14OCT98	20OCT98	4
SRWK1010	Demobilize Equipment	2	14OCT98	15OCT98	4
SRWK1020	Lock and Secure Area	2	19OCT98	20OCT98	4



Project Start 01OCT97
Project Finish 20OCT98
Data Date 01OCT97
Run Date 26MAY98
© Primavera Systems, Inc.

Early Bar
Progress Bar
Critical Activity

HEPA
Sheet 1 of 1
Bechtel & Wilcox of Ohio
HEPA Bldg Decontamination
Fig 5.1 Planning & Implementation Sched

Figure 5.1 Planning and Implementation Schedule

6. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN

Radioactive contaminants, if present in the soil, could migrate to groundwater.

7. OUTSTANDING POLICY ISSUES

There are currently no outstanding policy issues affecting performance of this removal action.

8. ENFORCEMENT

The Core Team consisting of DOE, USEPA, and OEPA has agreed on the need to perform the removal. The work described in this document does not create a waiver of any rights under the Federal Facility Agreement, nor is it intended to create a waiver of any rights under the Federal Facility Agreement. The DOE is the sole party responsible for implementing this clean-up. Therefore, DOE is undertaking the role of lead agency, per the CERCLA and NCP, for the performance of this removal action. The funding for this removal action will be through DOE budget authorization and no Superfund monies will be required.

9. RECOMMENDATION

This decision document represents the selected removal action for Buildings H, developed in accordance with CERCLA as amended by SARA, and consistent with the NCP. This decision is based on the administrative record for the site.

Conditions at the site meet the NCP Section 300.415 (b)(2) criteria for a removal and we recommend initiation of the response action.

Approved:

Sam Cheng, DFR Team Leader	DOE/MEMP	6-8-98 Date
Brian K. Nickel, Project Manager	OEPA	6/12/98 Date
Timothy J. Fischer, Remedial Project Manager	USEPA	6/10/98 Date

10. REFERENCES

DOE 1995 Policy on Decommissioning Department of Energy Facilities Under CERCLA. U.S. Department of Energy, U.S. Environmental Protection Agency, May, 1995

USEPA 1990. Superfund Removal Procedures Action Memorandum Guidance. Office of Emergency and Remedial Response. U.S. Environmental Protection Agency. December 1990.

Environmental Appraisal Report of the Mound Plant, March 1996

DOE 1993 Draft Comprehensive Listing of State of Ohio ARARs, Letter from Hatcher to Kleinrath, May, 1993

~~For BWO internal use only.~~

Hierarchy For: Action Memorandum for Building H Hot Laundry.

Document that directed this document be produced: USEPA Region 5 and State of Ohio; Federal Facility Agreement Under CERCLA 120; In the Matter of the USDOE's Mound Plant; Miamisburg, OH; July 15, 1993.

LEVEL 1 LAWS/REGULATIONS (Imposed by Outside Authority)	FFA Action Memorandum
LEVEL 2 AGREEMENTS	
LEVEL 3 MOUND SITE-WIDE DOCUMENTS (POLICY & GUIDANCE FROM BWO)	
LEVEL 4 ORGANIZATIONAL/OPERATIONS DOCUMENTS	
LEVEL 5 PROCEDURAL/INSTRUCTIONAL DOCUMENTS	
LEVEL 6 REPORTS AND PERFORMANCE INDICATORS	

CONFIRMED UNCLASSIFIED/NON-~~SENSITIVE~~
REVIEWED BY: JANET NESHEIM/EMCBC
DATE: 06-09-10

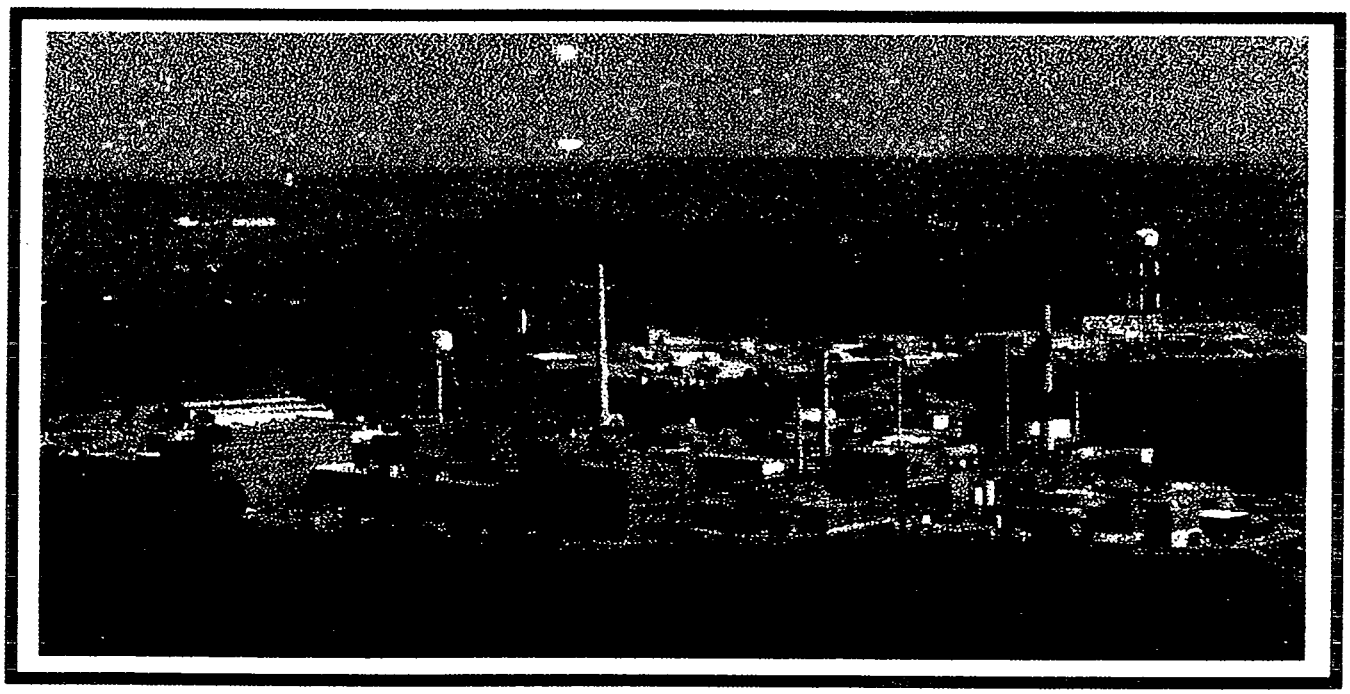
Reference G

MOUND

Environmental
Restoration
Program

OhioEPA

MOUND PLANT
Potential Release Site Package
PRS #124



PRS 124

REV	DESCRIPTION	DATE
WORKING DRAFT		Apr. 11, 2001
DRAFT	DOE / BWXTO review of Working Draft on April 16, 2001. Distribute for Core Team evaluation (binning) in May 2001.	Apr. 16, 2001
DRAFT PROPOSED FINAL		
PUBLIC REVIEW DRAFT		
FINAL		

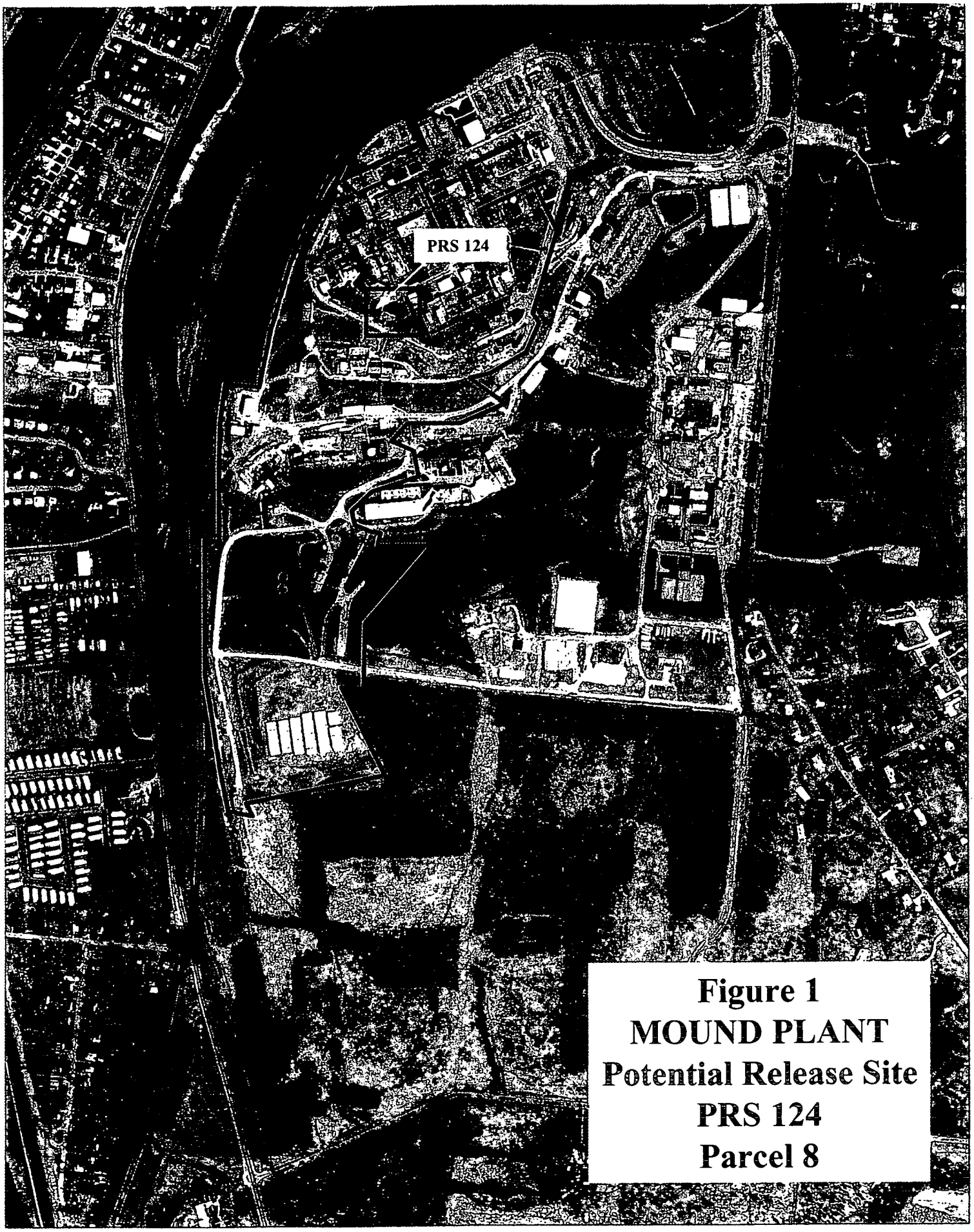
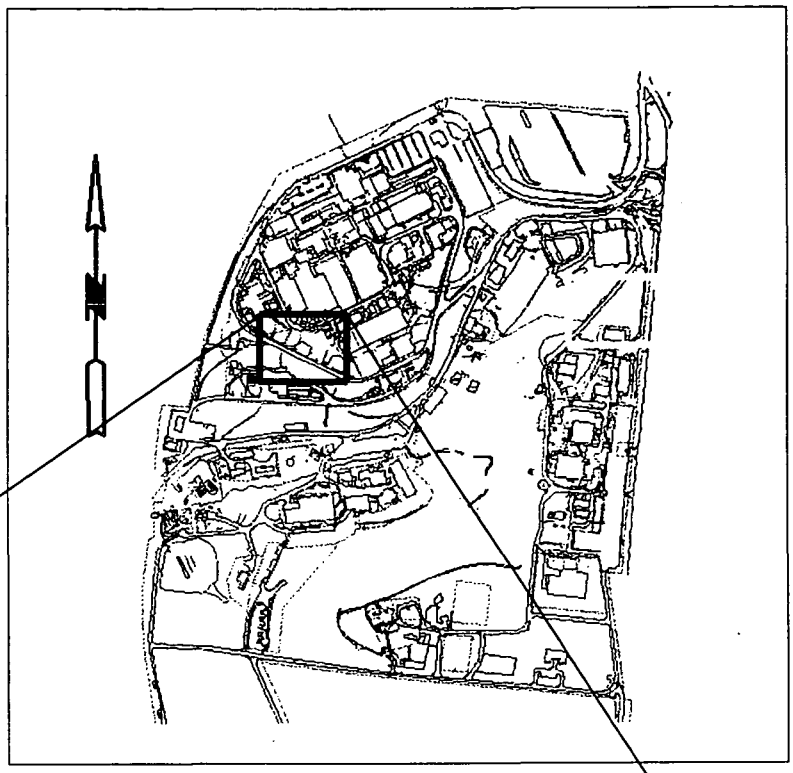
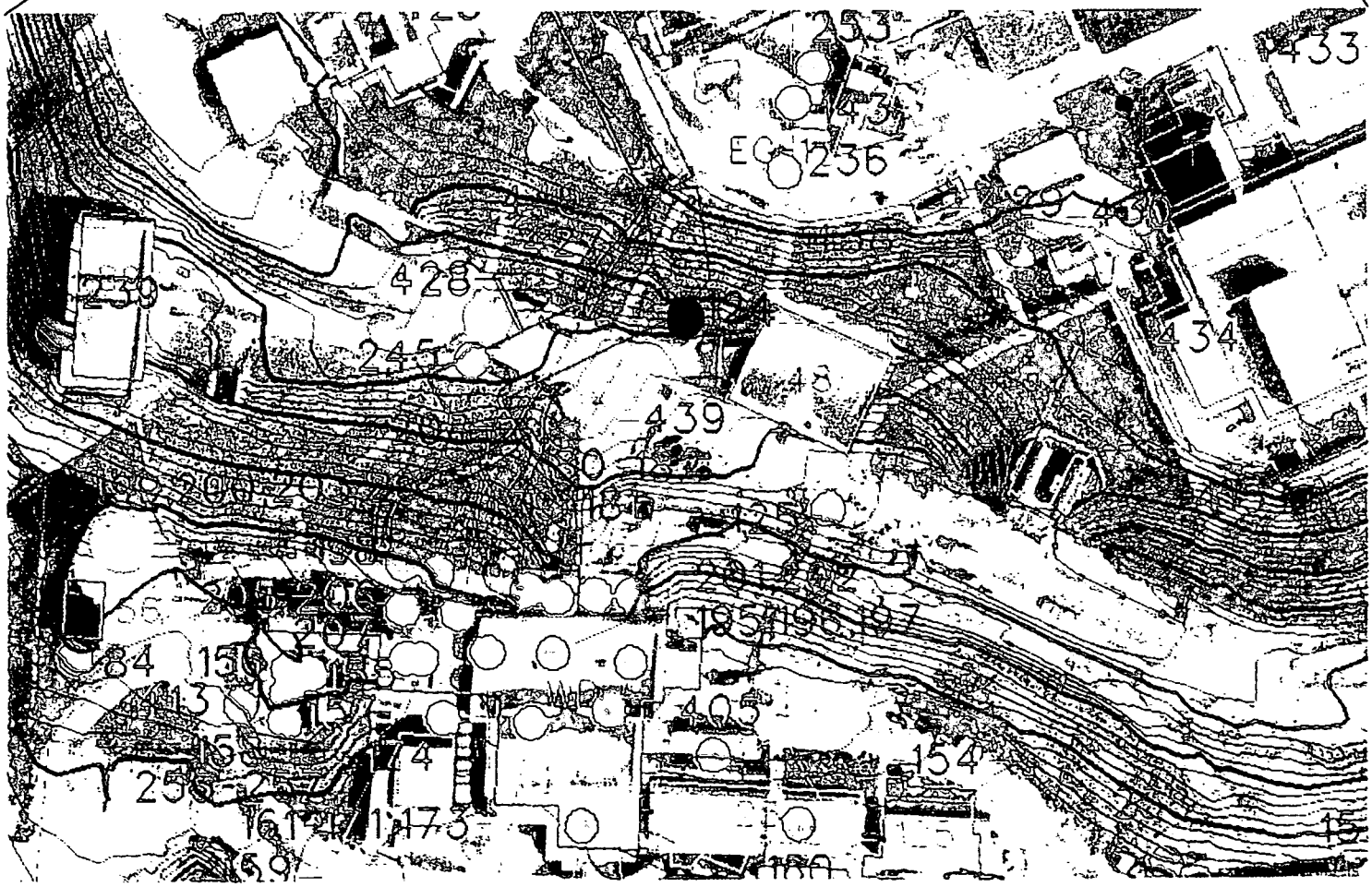


Figure 1
MOUND PLANT
Potential Release Site
PRS 124
Parcel 8

Figure 2
Mound Plant
PRS 124
Building 48 Hillside

On the map below:
- PRS number and location shown in black
- Fencing shown in red
- Elevation contours shown in brown
- Other PRS's shown in blue





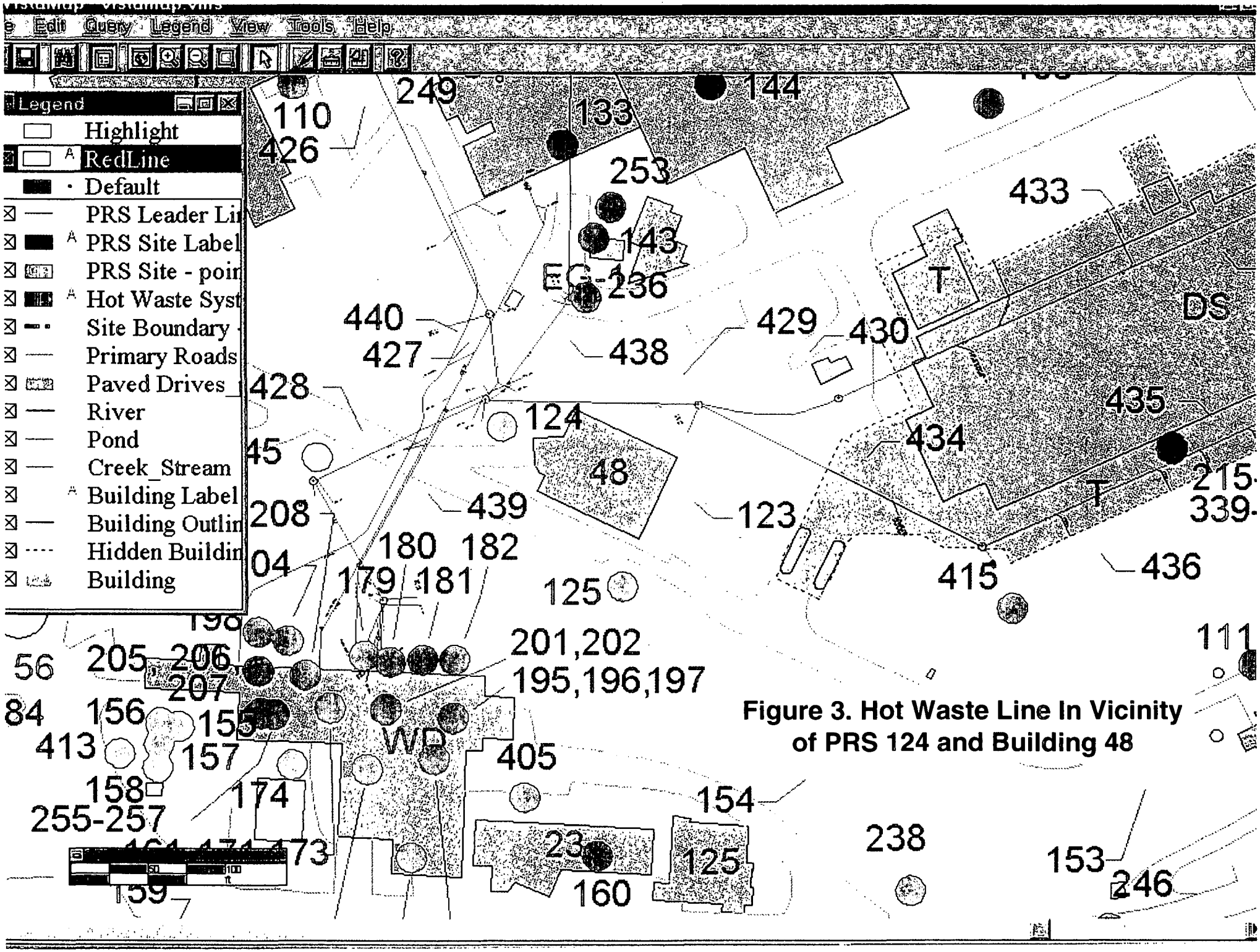


Figure 3. Hot Waste Line In Vicinity of PRS 124 and Building 48

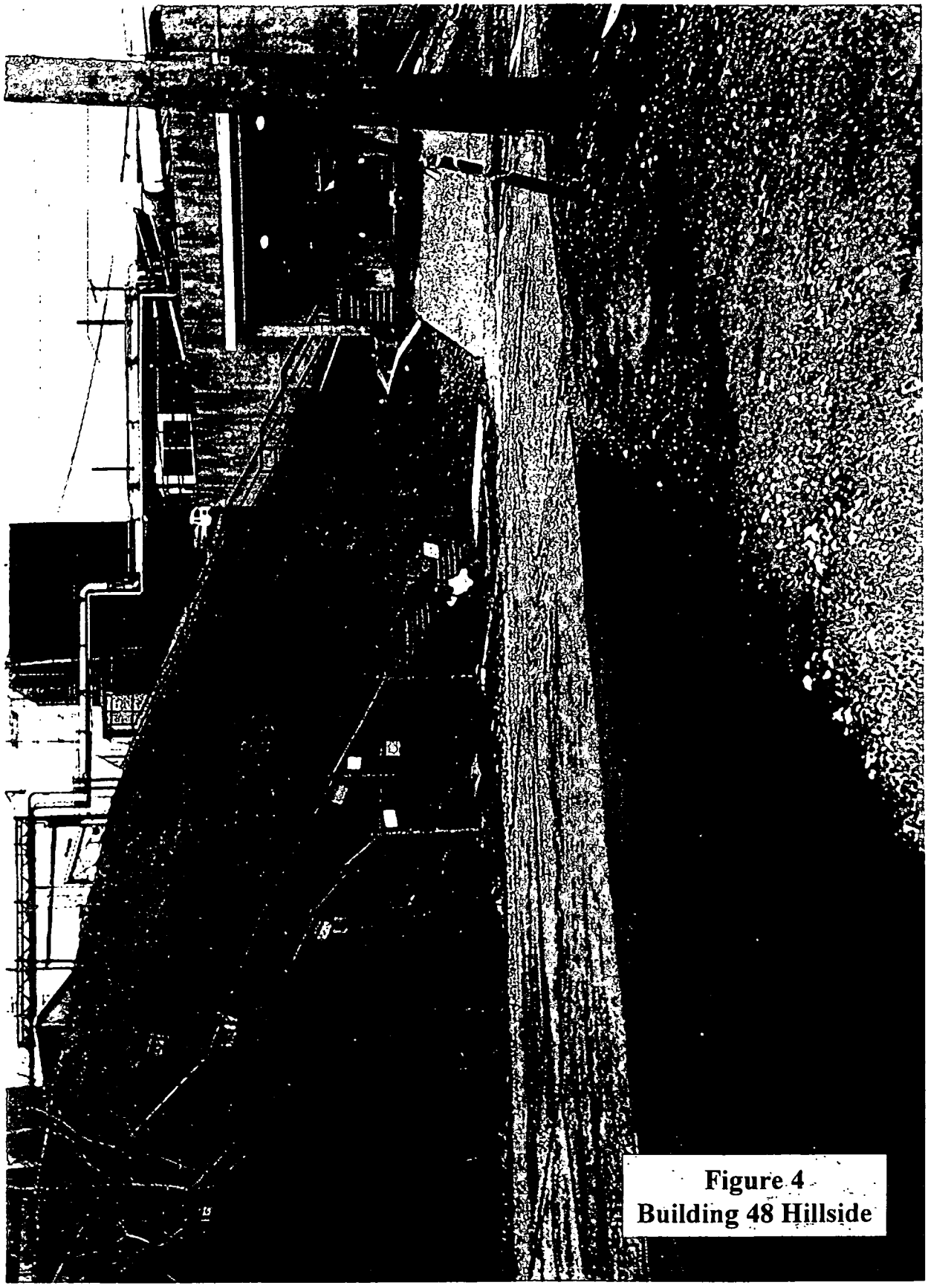


Figure 4
Building 48 Hillside

PRS 124

PRS HISTORY:

The document, Operable Unit 9, Site Scoping Report: Volume 12 - Site Summary Report [1], identifies PRS 124 as the Mound Plant *Building 48 Hillside.* This reference also declares that plutonium-238 in soil is the suspected contaminant of concern. GIS [2] mapping / sampling information indicates that the area of concern is located adjacent to a radiological process line manhole northwest of Building 48. Several Main Hill radiological process waste lines join near this location and continue to the Waste Disposal (WD) Building. Note Figure 3 and also Reference 3. This reference declares that "The contamination encountered at the Building 48 hillside is attributed to a release of 7.64 mCi of plutonium-238 in November 1967." It is also noted that the incident is documented in the Site Scoping Report, Volume 11: Spills and Response Actions [4].

BACKGROUND:

On November 9, 1967, 1500 - 2000 gallons of low-level radioactive wastewater was accidentally released during waste line repair[4]. Soil sampling accomplished in support of a construction project (Circa 1986) indicated plutonium-238 concentrations as high as 32 nCi/g. These concentrations required that the construction project be abandoned. Construction borings were backfilled and contamination was left in place for future D&D activities [3].

CONTAMINATION:

Table 1: Soil Analysis Report, Soils Identified With PRS 124[2]

Contaminant	Maximum Level (pCi/g)	Guideline Value (10^{-6}) (pCi/g)	Background Value (pCi/g)
Plutonium 238 (SCR191)	2902.0	55.0 (10^{-5})	0.13
Plutonium 238 (SCR159)	225.0	55.0 (10^{-5})	0.13
Plutonium 238 (SCR155)	74.0	55.0 (10^{-5})	0.13
Thorium 230 (MND17-5001)	5.23	0.13	1.90
Thorium 232 (SCR191)	182.2	0.11	1.40
Thorium 232 (SCR155)	2.20	0.11	1.40

READING ROOM REFERENCES:

1) Operable Unit 9, Site Scoping Report: Volume 12 - Site Summary Report, December 1994

3) Operable Unit 9, Site Scoping Report: Volume 3 - Radiological Site Survey, June 1993

4) Operable Unit 9, Site Scoping Report: Volume 11 - Spills and Response Actions, March 1992

OTHER REFERENCES:

2) GIS Mapping / Sampling Information

PREPARED BY:

Mary Beth England, Member of BWXT of Ohio Technical Staff
Billy M. Farmer, Member of BWXT of Ohio Technical Staff
Joseph C. Geneczko, Member of BWXT of Ohio Technical Staff
W. David Gloekler, Member of BWXT of Ohio Technical Staff
Floyd A. Hertweck, Jr., Member of BWXT of Ohio Technical Staff
Ronald P. Paulick, Member of BWXT of Ohio Technical Staff
Steven S. Pawel, Member of BWXT of Ohio Technical Staff
Marcelious Robinson, Member of BWXT of Ohio Technical Staff

CONTRIBUTORS:

Dan Carfagno, Ohio Environmental Protection Agency
Richard Neff, Department of Energy / MEMP

MOUND PLANT
PRS 124

Building 48 Hillside

RECOMMENDATION:

CONCURRENCE:

DOE/MEMP: _____
Robert S. Rothman, Remedial Project Manager (date)

USEPA: _____
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: _____
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 FOR PRS 124

Reference 1

Classification Code
Accession No

ENVIRONMENTAL RESTORATION PROGRAM

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

MOUND PLANT
MIAMISBURG, OHIO

December 1994

U.S. DEPARTMENT OF ENERGY
OHIO FIELD OFFICE

ENVIRONMENTAL RESTORATION PROGRAM
EG&G MOUND APPLIED TECHNOLOGIES

FINAL

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[a]	Results	Ref
118	M Building Soils	E-7	Grounds	Copper cyanide, Silver cyanide Machine oils, Solvents	4	Oils, Copper cyanide, Silver cyanide	S	10	1 14	SGS[b] Table B.4 Locations 1050, 1051, 1062 Table B.9 RSS[c] Locations S0162, S0163, S0252 (Appendix E in Ref. 6)	12 6
119	Room M-38 Metal Plating Rinse Water Sump (Tank 225)	E-7	Surplus	Rinse waters from metal plating operations. Possible contaminants include nickel, cadmium, silver, gold, manganese, cyanide, and aluminum. Sodium hydroxide solution Potassium permanganate	3, 4	None Suspected			No Data		
120	Room M-108 Metal Plating Rinse Water Tank (Tank 119)	E-7	In service	Rinse waters from metal plating operations. copper, gold, silver, nickel, aluminum, and uranium	3, 4	Silver cyanide	SW	10	No Data		
121	Vapor Degreasers	E-7	In service	Perclene D (perchloroethylene)	4, 5, 18	None Suspected			No Data		
122	Underground Radioactive Waste Lines (Main Hill)	E-6 F-6	Inactive	Alpha wastes from SW Bldg., R Bldg., and H Bldg. Wastewater from B Building Plutonium-238, Cobalt-60	4, 18	Suspected	S	4, 10	No Data		
123	Area 5, Radioactive Waste Line Break	F-6 F-7	Grounds	Cobalt-60, Cesium-137, Plutonium-238	1, 5, 18	Cobalt-60	S	1, 18	2, 14, 16	Table B.1 (Table III.3 in Ref. 6)	6
124	Building 48 Hillside	F-6	Inactive	Plutonium-238		Plutonium-238	S	6	14	Table B.1	6
125	Underground Sanitary Sewer Line G24	F-6	In service	Organic solvents, Plating Solutions, Laboratory chemicals, Nitric acid, Hydrochloric acid, Methylene chloride, Strong acids and bases		Suspected	S	5, 18	3, 4, 5, 6, 14, 16	Tables B.6, B.7, and B.8	7
126	Building 28 Solvent Storage Area	E-8	Grounds	Organic solvents (including alcohol, methylene chloride, and acetone)	4, 5, 9, 18	Suspected	S	4	1	SGS[b] Table B.4 Location 1054	12

Scoping Report
Vol. 12

Table A.1

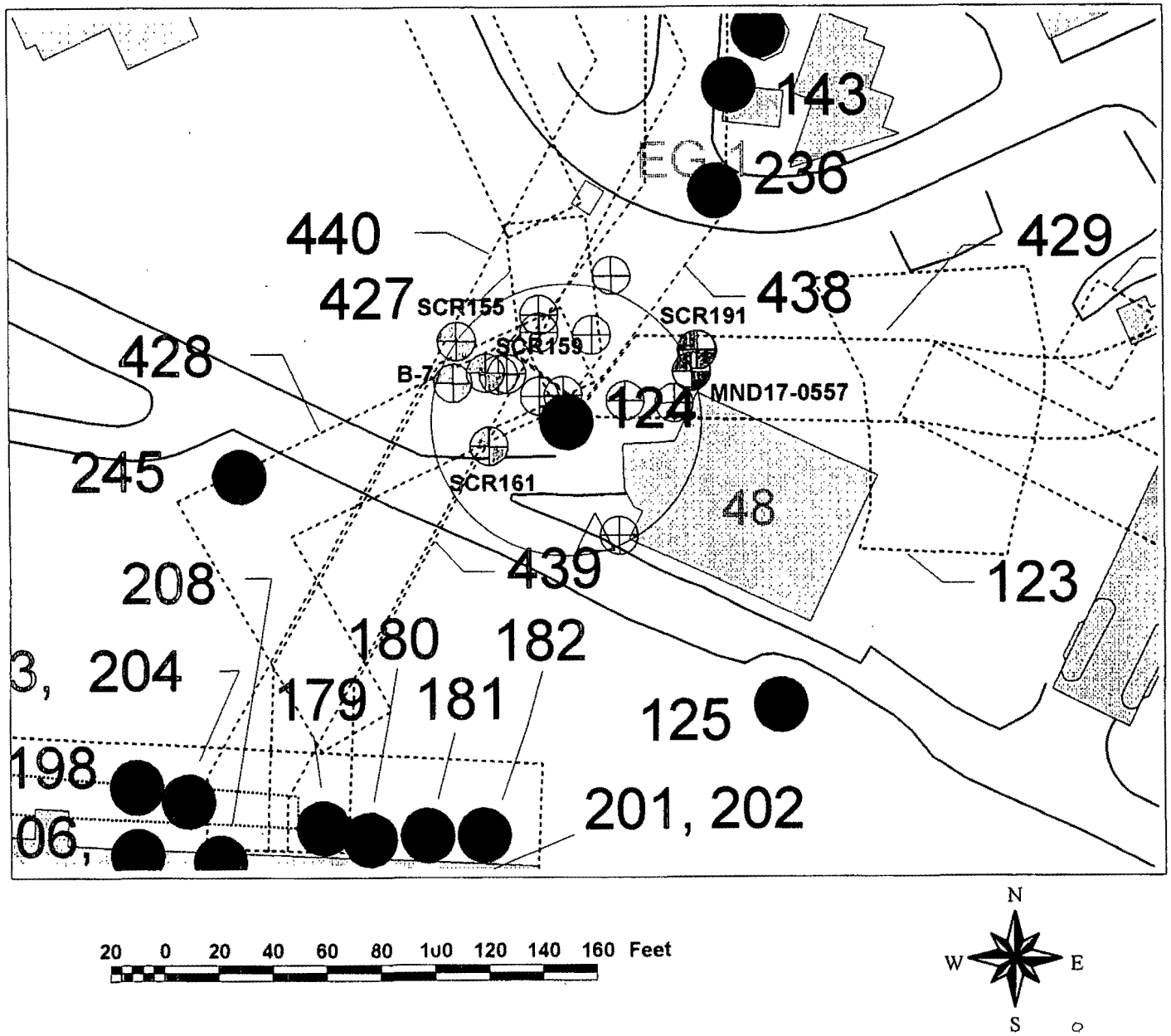
1 - Soil Gas Survey - Freon 11, Freon 113, Trans-1,2-Dichloroethylene, Cis-1,2-Dichloroethylene, 1,1,1-Trichloroethane, Perchloroethylene, Trichloroethylene, Toluene
2 - Gamma Spectroscopy - Thorium-228, -230, Cobalt-60, Cesium-137, Radium-224, -226, -228, Americium-241, Actinium-227, Bismuth-207, Bismuth-210m, 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: Vol. 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 Scping Report: Vol. 3 - Radiological Site Survey (FINAL)."
7. DOE 1993c "Operable Unit 3, Misc. 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 Scpoing Report: Vol. 9 - 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: Vol. 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 1976a, 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."

Reference 2

PRS 124 Sample Locations
Plutonium and Thorium Detects



Location_name	Sample_id	Location_typ	Collection_d	Value_name	Measured_	Value_unit	Detectio	Chem_c	Start_de	End_dep	CAS_number	Lab_q	Data_	Project_code	Media	Collection_m	Comments
MND17-0557	0557-5001	Borehole	19950822	Thorium-230	5.23	PCI/G		RAD	0.0	0.5	14269-63-7			MND17	Soil	Split spoon	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
MND17-0557	0557-5001	Borehole	19950822	Thorium-232	0.25	PCI/G		RAD	0.0	0.5	7440-29-1			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Thorium-232	0.69	PCI/G		RAD	0.5	4.0	7440-29-1			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Thorium-232	0.72	PCI/G		RAD	4.0	8.0	7440-29-1			MND17	Soil	Split spoon	
SCR191	8802151	Borehole	19880215	Plutonium-238	2902.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR191	8802151	Borehole	19880215	Thorium-232	182.20	PCI/G		RAD	0.0	0.0	7440-29-1			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR191	8802154	Borehole	19880215	Plutonium-238	1279.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR191	8802154	Borehole	19880215	Thorium-232	59.90	PCI/G		RAD	0.0	0.0	7440-29-1			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR191	8802152	Borehole	19880215	Plutonium-238	1118.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR191	8802152	Borehole	19880215	Thorium-232	106.90	PCI/G		RAD	0.0	0.0	7440-29-1			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR191	8802155	Borehole	19880215	Plutonium-238	195.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR191	8802155	Borehole	19880215	Thorium-232	8.20	PCI/G		RAD	0.0	0.0	7440-29-1			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR191	8802153	Borehole	19880215	Plutonium-238	39.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR191	8802153	Borehole	19880215	Thorium-232	2.80	PCI/G		RAD	0.0	0.0	7440-29-1			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value.
SCR161	9312024-Q	Borehole	19931202	Plutonium-238	26.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR159	90072559	Borehole	19900725	Plutonium-238	26.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR159	90072555	Borehole	19900725	Plutonium-238	29.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR159	90072560	Borehole	19900725	Plutonium-238	30.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR159	90072557	Borehole	19900725	Plutonium-238	225.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR159	90072561	Borehole	19900725	Plutonium-238	31.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR159	90072554	Borehole	19900725	Plutonium-238	27.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR155	88022511	Borehole	19880224	Plutonium-238	37.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR155	8802251	Borehole	19880224	Plutonium-238	27.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR155	88022517	Borehole	19880224	Plutonium-238	31.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR155	8802253	Borehole	19880224	Plutonium-238	74.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR155	8802253	Borehole	19880224	Thorium-232	2.20	PCI/G		RAD	0.0	0.0	7440-29-1			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value.
SCR155	8802256	Borehole	19880224	Plutonium-238	26.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR155	8802255	Borehole	19880224	Plutonium-238	26.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR155	88022525	Borehole	19880224	Plutonium-238	35.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
SCR155	88022523	Borehole	19880224	Plutonium-238	28.00	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	1-Exceeds soil 10-6 GV. 2-Exceeds background value. 3-Exceeds other criteria.
B-7	4007-0005	Borehole	19930823	Plutonium-238	0.68	PCI/G	0.16	RAD	3.5	5.0	13981-16-3	*		MND16	Soil		2-Exceeds background value.
B-7	4007-1007	Borehole	19930823	Plutonium-238	0.69	PCI/G	0.14	RAD	3.5	5.0	13981-16-3			MND16	Soil		2-Exceeds background value.

Reference 3

ENVIRONMENTAL RESTORATION PROGRAM

OPERABLE UNIT 9, SITE SCOPING REPORT: VOLUME 3 - RADIOLOGICAL SITE SURVEY

MOUND PLANT
MIAMISBURG, OHIO

June 1993

DEPARTMENT OF ENERGY
ALBUQUERQUE FIELD OFFICE

ENVIRONMENTAL RESTORATION PROGRAM
EG&G MOUND APPLIED TECHNOLOGIES

FINAL

was detected in the samples from this location (a maximum of 0.98 pCi/g of plutonium-238 and less than 2 pCi/g of thorium).

Area D was not identified in the original Site Survey Project Report (Stought et al. 1988), but it has always been included as one of the sites to be addressed by the Mound Plant D&D Program. No significant radioactive contamination was identified during the Site Survey Project, either in the original report or by this evaluation. This is consistent with the site history for this area, which indicates that any nitric acid released would have been raw material prior to processing and, therefore, not contaminated. The D&D of Area D is being conducted as part of the D&D of Building 38 and its utility systems.

The maximum depth sampled in Area D was 180 inches. Borehole data in Mound Plant drawing #FSE16472, reproduced in the Site Scoping Report: Volume II Addendum (DOE 1992f) indicate that the depth to bedrock in this area of the SM/PP Hill ranges from approximately 108 to 228 inches, but this may vary greatly due to the presence of fill dirt. The boring log for location C0146 is not available, so it cannot be determined if bedrock was reached during the sampling.

4.1.9. Building 48 Hillside

A note in the Site Survey Project Report (Table 2.1 in Stought et al. 1988) indicated that elevated levels of plutonium-238 were discovered in an area designated as Block 19. The area of concern is actually located adjacent to a process sewer manhole northwest of Building 48 on the south slope of the Main Hill (Plate 1). This area is referred to as the Building 48 hillside in this report. The Building 48 hillside is also west of Area 5, but is not currently included in the boundaries of Area 5. Internal Mound Plant memoranda reviewed for this report substantiate the note in the project report (Stought et al. 1988) that plutonium-238 concentrations are as high as 32 nCi/g (Draper 1986a). The data sheets are included in Appendix E. The levels of plutonium-238 encountered required that the construction project be abandoned, so the initial holes were simply backfilled and the contamination left in place. The contamination encountered at the Building 48 hillside is attributed to a release of 7.64 mCi of plutonium-238 in November 1967. This incident is listed in the Site Scoping Report: Volume 11: Spills and Response Actions (DOE 1992h). As the Building 48 hillside is associated with the soils adjacent to the alpha waste water sewer lines, similar problems may be anticipated along the length of the lines. These lines are scheduled to undergo D&D.

Reference 4

ENVIRONMENTAL RESTORATION PROGRAM

OPERABLE UNIT 9,
SITE SCOPING REPORT
VOLUME 11 - SPILLS AND RESPONSE ACTIONS

MOUND PLANT
MIAMISBURG, OHIO

March 1992

DEPARTMENT OF ENERGY
ALBUQUERQUE FIELD OFFICE

ENVIRONMENTAL RESTORATION PROGRAM
TECHNICAL SUPPORT OFFICE
LOS ALAMOS NATIONAL LABORATORY

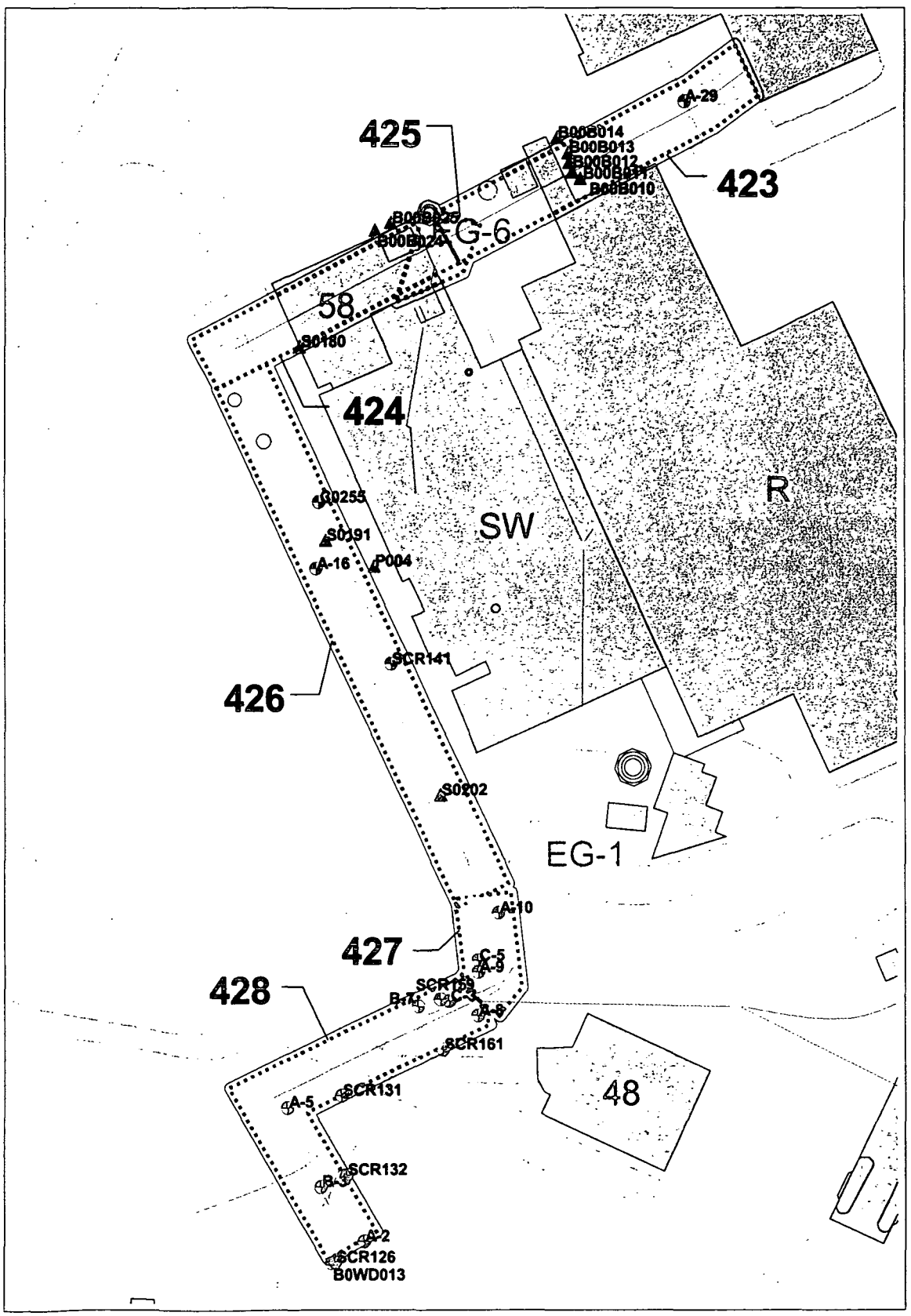
FINAL
(Revision 0)

Table II.1. Summary of Spills and Environmental Releases from Records of the Safety Office

Date	Location	Material	Amount	Incident	Response
02/12/63	South end SW Bldg.	H-3	"Low-level"	Fire of paper covering metal during cutting and drumming for disposal (63-13).	MRC Incident Investigation Report No. 63-13 (2/14/63).
03/04/63	Historic landfill	Misc. chemicals	Unknown	Explosion of incompatible chemicals in deteriorated containers; no radioactivity.	MRC Incident Investigation Report No. 63-19 (2/19/63).
10/27/64	SM Bldg.	Pu-238	Unknown	Methanol vapors inside fumehood exploded; possible air release.	MRC Incident Investigation Final Report 11/23/64 - record incomplete. Use of flammable solvents within gloveboxes prohibited by AEC.
02/26/65	SM Bldg.	Pu-238	Unknown	Ruptured can of trash in Room 26; possible air release; possible water release.	MRC report 3/2/65 - record incomplete.
03/08/65	SM Bldg.	Pu-238	Unknown	Acid release in Room 59; possible air release.	MRC report 3/8/65 - record incomplete.
08/27/65	SM Bldg.	Pu-238	Unknown	Fire in Room 38; possible air release.	MRC report 9/7/65 - record incomplete.
05/20/66	SM Bldg.	H-3	Unknown	Unidentified release of tritium to SW stack.	MRC Incident Investigation Report No. 66-26 (5/27/66). Recommendations to re-evaluate mechanical and engineering conditions of ERS.
09/08/67	WTS west of SM Bldg.	Pu-238	Unknown	Flanges in line found unbolted; low-risk line contaminated, including soil to 15 ft downslope; high-risk line not in use yet.	MRC Incident Investigation Report No. 67-21 (10/10/67). Soil cleanup proposed (no cleanup guideline given) with periodic system inspections.
11/09/67	Wasteline south of SW/R Bldgs.	"Low-level radioactivity"	1,500-2,000 gals	During wasteline repair wastewater spilled across road to storm drains and then to drainage ditch; about 7.65 millicuries released.	MRC Incident Description 11/17/67. 10 on-plant and 7 off-plant water samples collected 5 to 20 minutes after spill; highest air reading 1200 dis/min/mL; highest water reading 216.0 dis/min/mL at culvert exit to drainage ditch.
03/30/68	SM Bldg.	Pu-238	Unknown	Reversal of air flow in SM stack; possible air release.	MRC Incident Investigation Report No. 68-8 (4/10/68).

Reference H

Historic Sample Locations around PRS 423-428



50 0 50 100 150 200 Feet

PRS Area
Sewer System Lines
Hot Waste Line
Sample Detect

N
W E
S

MOUND
Environmental Restoration Geographic Information System

e:\cad_proj\prs423\esri\prs423091902.apr

09/19/02

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-16	1016-0009	Borehole	19930921	1,1,1-Trichloroethane	12.0000	UG/KG		ORVOA	8.0	9.5	71-55-6	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,1,1-Trichloroethane	12.0000	UG/KG		ORVOA	13.0	15.0	71-55-6	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,1,1-Trichloroethane	12.0000	UG/KG		ORVOA	13.0	15.0	71-55-6	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	1,1,1-Trichloroethane	11.0000	UG/KG		ORVOA	8.0	9.5	71-55-6	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,1,1-Trichloroethane	11.0000	UG/KG		ORVOA	3.5	5.0	71-55-6	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	1,1,1-Trichloroethane	11.0000	UG/KG		ORVOA	12.5	14.5	71-55-6	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,1,1-Trichloroethane	11.0000	UG/KG		ORVOA	9.5	11.5	71-55-6	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	1,1,1-Trichloroethane	10.0000	UG/KG		ORVOA	4.0	4.8	71-55-6	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,1,1-Trichloroethane	10.0000	UG/KG		ORVOA	5.5	7.5	71-55-6	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,1,1-Trichloroethane	9.0000	UG/KG		ORVOA	8.5	10.5	71-55-6	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,1,1-Trichloroethane	9.0000	UG/KG		ORVOA	6.5	8.5	71-55-6	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	1,1,1-Trichloroethane	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	71-55-6	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	1,1,2,2-Tetrachloroethane	12.0000	UG/KG		ORVOA	8.0	9.5	79-34-5	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,1,2,2-Tetrachloroethane	12.0000	UG/KG		ORVOA	13.0	15.0	79-34-5	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,1,2,2-Tetrachloroethane	12.0000	UG/KG		ORVOA	13.0	15.0	79-34-5	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	1,1,2,2-Tetrachloroethane	11.0000	UG/KG		ORVOA	8.0	9.5	79-34-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,1,2,2-Tetrachloroethane	11.0000	UG/KG		ORVOA	3.5	5.0	79-34-5	U	UJ	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	1,1,2,2-Tetrachloroethane	11.0000	UG/KG		ORVOA	12.5	14.5	79-34-5	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,1,2,2-Tetrachloroethane	11.0000	UG/KG		ORVOA	9.5	11.5	79-34-5	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	1,1,2,2-Tetrachloroethane	10.0000	UG/KG		ORVOA	4.0	4.8	79-34-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,1,2,2-Tetrachloroethane	10.0000	UG/KG		ORVOA	5.5	7.5	79-34-5	U	UJ	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,1,2,2-Tetrachloroethane	9.0000	UG/KG		ORVOA	8.5	10.5	79-34-5	U	UJ	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,1,2,2-Tetrachloroethane	9.0000	UG/KG		ORVOA	6.5	8.5	79-34-5	U	UJ	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	1,1,2,2-Tetrachloroethane	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	79-34-5	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	1,1,2-Trichloroethane	12.0000	UG/KG		ORVOA	8.0	9.5	79-00-5	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,1,2-Trichloroethane	12.0000	UG/KG		ORVOA	13.0	15.0	79-00-5	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,1,2-Trichloroethane	12.0000	UG/KG		ORVOA	13.0	15.0	79-00-5	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	1,1,2-Trichloroethane	11.0000	UG/KG		ORVOA	8.0	9.5	79-00-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,1,2-Trichloroethane	11.0000	UG/KG		ORVOA	3.5	5.0	79-00-5	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	1,1,2-Trichloroethane	11.0000	UG/KG		ORVOA	12.5	14.5	79-00-5	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,1,2-Trichloroethane	11.0000	UG/KG		ORVOA	9.5	11.5	79-00-5	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	1,1,2-Trichloroethane	10.0000	UG/KG		ORVOA	4.0	4.8	79-00-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,1,2-Trichloroethane	10.0000	UG/KG		ORVOA	5.5	7.5	79-00-5	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,1,2-Trichloroethane	9.0000	UG/KG		ORVOA	8.5	10.5	79-00-5	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,1,2-Trichloroethane	9.0000	UG/KG		ORVOA	6.5	8.5	79-00-5	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	1,1,2-Trichloroethane	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	79-00-5	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	1,1-Dichloroethane	12.0000	UG/KG		ORVOA	8.0	9.5	75-34-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,1-Dichloroethane	12.0000	UG/KG		ORVOA	13.0	15.0	75-34-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,1-Dichloroethane	12.0000	UG/KG		ORVOA	13.0	15.0	75-34-3	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	1,1-Dichloroethane	11.0000	UG/KG		ORVOA	8.0	9.5	75-34-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,1-Dichloroethane	11.0000	UG/KG		ORVOA	3.5	5.0	75-34-3	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	1,1-Dichloroethane	11.0000	UG/KG		ORVOA	12.5	14.5	75-34-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,1-Dichloroethane	11.0000	UG/KG		ORVOA	9.5	11.5	75-34-3	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	1,1-Dichloroethane	10.0000	UG/KG		ORVOA	4.0	4.8	75-34-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,1-Dichloroethane	10.0000	UG/KG		ORVOA	5.5	7.5	75-34-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,1-Dichloroethane	9.0000	UG/KG		ORVOA	8.5	10.5	75-34-3	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,1-Dichloroethane	9.0000	UG/KG		ORVOA	6.5	8.5	75-34-3	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	1,1-Dichloroethane	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	75-34-3	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	1,1-Dichloroethene	12.0000	UG/KG		ORVOA	8.0	9.5	75-35-4	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,1-Dichloroethene	12.0000	UG/KG		ORVOA	13.0	15.0	75-35-4	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,1-Dichloroethene	12.0000	UG/KG		ORVOA	13.0	15.0	75-35-4	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	1,1-Dichloroethene	11.0000	UG/KG		ORVOA	8.0	9.5	75-35-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,1-Dichloroethene	11.0000	UG/KG		ORVOA	3.5	5.0	75-35-4	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	1,1-Dichloroethene	11.0000	UG/KG		ORVOA	12.5	14.5	75-35-4	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,1-Dichloroethene	11.0000	UG/KG		ORVOA	9.5	11.5	75-35-4	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	1,1-Dichloroethene	10.0000	UG/KG		ORVOA	4.0	4.8	75-35-4	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,1-Dichloroethene	10.0000	UG/KG		ORVOA	5.5	7.5	75-35-4	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,1-Dichloroethene	9.0000	UG/KG		ORVOA	8.5	10.5	75-35-4	U	U	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-8	1008-0007	Borehole	19930817	1,1-Dichloroethene	9.0000	UG/KG		ORVOA	6.5	8.5	75-35-4	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	1,1-Dichloroethene	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	75-35-4	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	1,2,4-Trichlorobenzene	790.0000	UG/KG		ORSVO	8.0	9.5	120-82-1	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,2,4-Trichlorobenzene	780.0000	UG/KG		ORSVO	13.0	15.0	120-82-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,2,4-Trichlorobenzene	770.0000	UG/KG		ORSVO	13.0	15.0	120-82-1	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,2,4-Trichlorobenzene	750.0000	UG/KG		ORSVO	8.5	10.5	120-82-1	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	1,2,4-Trichlorobenzene	750.0000	UG/KG		ORSVO	12.5	14.5	120-82-1	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,2,4-Trichlorobenzene	740.0000	UG/KG		ORSVO	9.5	11.5	120-82-1	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	1,2,4-Trichlorobenzene	730.0000	UG/KG		ORSVO	8.0	9.5	120-82-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,2,4-Trichlorobenzene	730.0000	UG/KG		ORSVO	3.5	5.0	120-82-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	1,2,4-Trichlorobenzene	720.0000	UG/KG		ORSVO	6.5	8.5	120-82-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,2,4-Trichlorobenzene	690.0000	UG/KG		ORSVO	5.5	7.5	120-82-1	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	1,2,4-Trichlorobenzene	670.0000	UG/KG		ORSVO	4.0	4.8	120-82-1	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	1,2-Dichlorobenzene	790.0000	UG/KG		ORSVO	8.0	9.5	95-50-1	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,2-Dichlorobenzene	780.0000	UG/KG		ORSVO	13.0	15.0	95-50-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,2-Dichlorobenzene	770.0000	UG/KG		ORSVO	13.0	15.0	95-50-1	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,2-Dichlorobenzene	750.0000	UG/KG		ORSVO	8.5	10.5	95-50-1	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	1,2-Dichlorobenzene	750.0000	UG/KG		ORSVO	12.5	14.5	95-50-1	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,2-Dichlorobenzene	740.0000	UG/KG		ORSVO	9.5	11.5	95-50-1	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	1,2-Dichlorobenzene	730.0000	UG/KG		ORSVO	8.0	9.5	95-50-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,2-Dichlorobenzene	730.0000	UG/KG		ORSVO	3.5	5.0	95-50-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	1,2-Dichlorobenzene	720.0000	UG/KG		ORSVO	6.5	8.5	95-50-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,2-Dichlorobenzene	690.0000	UG/KG		ORSVO	5.5	7.5	95-50-1	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	1,2-Dichlorobenzene	670.0000	UG/KG		ORSVO	4.0	4.8	95-50-1	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	1,2-Dichloroethane	12.0000	UG/KG		ORVOA	8.0	9.5	107-06-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,2-Dichloroethane	12.0000	UG/KG		ORVOA	13.0	15.0	107-06-2	U	UJ	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,2-Dichloroethane	12.0000	UG/KG		ORVOA	13.0	15.0	107-06-2	U	UJ	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	1,2-Dichloroethane	11.0000	UG/KG		ORVOA	8.0	9.5	107-06-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,2-Dichloroethane	11.0000	UG/KG		ORVOA	3.5	5.0	107-06-2	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	1,2-Dichloroethane	11.0000	UG/KG		ORVOA	12.5	14.5	107-06-2	U	UJ	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,2-Dichloroethane	11.0000	UG/KG		ORVOA	9.5	11.5	107-06-2	U	UJ	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	1,2-Dichloroethane	10.0000	UG/KG		ORVOA	4.0	4.8	107-06-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,2-Dichloroethane	10.0000	UG/KG		ORVOA	5.5	7.5	107-06-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,2-Dichloroethane	9.0000	UG/KG		ORVOA	8.5	10.5	107-06-2	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,2-Dichloroethane	9.0000	UG/KG		ORVOA	6.5	8.5	107-06-2	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	1,2-Dichloroethane	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	107-06-2	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	1,2-Dichloroethene	12.0000	UG/KG		ORVOA	8.0	9.5	540-59-0	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,2-Dichloroethene	12.0000	UG/KG		ORVOA	13.0	15.0	540-59-0	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,2-Dichloroethene	12.0000	UG/KG		ORVOA	13.0	15.0	540-59-0	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	1,2-Dichloroethene	11.0000	UG/KG		ORVOA	8.0	9.5	540-59-0	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,2-Dichloroethene	11.0000	UG/KG		ORVOA	3.5	5.0	540-59-0	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	1,2-Dichloroethene	11.0000	UG/KG		ORVOA	12.5	14.5	540-59-0	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,2-Dichloroethene	11.0000	UG/KG		ORVOA	9.5	11.5	540-59-0	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	1,2-Dichloroethene	10.0000	UG/KG		ORVOA	4.0	4.8	540-59-0	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,2-Dichloroethene	10.0000	UG/KG		ORVOA	5.5	7.5	540-59-0	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,2-Dichloroethene	9.0000	UG/KG		ORVOA	8.5	10.5	540-59-0	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,2-Dichloroethene	9.0000	UG/KG		ORVOA	6.5	8.5	540-59-0	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	1,2-Dichloroethene	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	540-59-0	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	1,2-Dichloropropane	12.0000	UG/KG		ORVOA	8.0	9.5	78-87-5	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,2-Dichloropropane	12.0000	UG/KG		ORVOA	13.0	15.0	78-87-5	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,2-Dichloropropane	12.0000	UG/KG		ORVOA	13.0	15.0	78-87-5	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	1,2-Dichloropropane	11.0000	UG/KG		ORVOA	8.0	9.5	78-87-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,2-Dichloropropane	11.0000	UG/KG		ORVOA	3.5	5.0	78-87-5	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	1,2-Dichloropropane	11.0000	UG/KG		ORVOA	12.5	14.5	78-87-5	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,2-Dichloropropane	11.0000	UG/KG		ORVOA	9.5	11.5	78-87-5	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	1,2-Dichloropropane	10.0000	UG/KG		ORVOA	4.0	4.8	78-87-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,2-Dichloropropane	10.0000	UG/KG		ORVOA	5.5	7.5	78-87-5	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,2-Dichloropropane	9.0000	UG/KG		ORVOA	8.5	10.5	78-87-5	U	U	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-8	1008-0007	Borehole	19930817	1,2-Dichloropropane	9.0000	UG/KG		ORVOA	6.5	8.5	78-87-5	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	1,2-Dichloropropane	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	78-87-5	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	1,3-cis-Dichloropropene	12.0000	UG/KG		ORVOA	8.0	9.5	10061-01-5	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,3-cis-Dichloropropene	12.0000	UG/KG		ORVOA	13.0	15.0	10061-01-5	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,3-cis-Dichloropropene	12.0000	UG/KG		ORVOA	13.0	15.0	10061-01-5	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	1,3-cis-Dichloropropene	11.0000	UG/KG		ORVOA	8.0	9.5	10061-01-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,3-cis-Dichloropropene	11.0000	UG/KG		ORVOA	3.5	5.0	10061-01-5	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	1,3-cis-Dichloropropene	11.0000	UG/KG		ORVOA	12.5	14.5	10061-01-5	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,3-cis-Dichloropropene	11.0000	UG/KG		ORVOA	9.5	11.5	10061-01-5	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	1,3-cis-Dichloropropene	10.0000	UG/KG		ORVOA	4.0	4.8	10061-01-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,3-cis-Dichloropropene	10.0000	UG/KG		ORVOA	5.5	7.5	10061-01-5	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,3-cis-Dichloropropene	9.0000	UG/KG		ORVOA	8.5	10.5	10061-01-5	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,3-cis-Dichloropropene	9.0000	UG/KG		ORVOA	6.5	8.5	10061-01-5	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	1,3-cis-Dichloropropene	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	10061-01-5	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	1,3-Dichlorobenzene	790.0000	UG/KG		ORSVO	8.0	9.5	541-73-1	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,3-Dichlorobenzene	780.0000	UG/KG		ORSVO	13.0	15.0	541-73-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,3-Dichlorobenzene	770.0000	UG/KG		ORSVO	13.0	15.0	541-73-1	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,3-Dichlorobenzene	750.0000	UG/KG		ORSVO	8.5	10.5	541-73-1	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	1,3-Dichlorobenzene	750.0000	UG/KG		ORSVO	12.5	14.5	541-73-1	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,3-Dichlorobenzene	740.0000	UG/KG		ORSVO	9.5	11.5	541-73-1	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	1,3-Dichlorobenzene	730.0000	UG/KG		ORSVO	8.0	9.5	541-73-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,3-Dichlorobenzene	730.0000	UG/KG		ORSVO	3.5	5.0	541-73-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	1,3-Dichlorobenzene	720.0000	UG/KG		ORSVO	6.5	8.5	541-73-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,3-Dichlorobenzene	690.0000	UG/KG		ORSVO	5.5	7.5	541-73-1	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	1,3-Dichlorobenzene	670.0000	UG/KG		ORSVO	4.0	4.8	541-73-1	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	1,3-trans-Dichloropropene	12.0000	UG/KG		ORVOA	8.0	9.5	10061-02-6	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,3-trans-Dichloropropene	12.0000	UG/KG		ORVOA	13.0	15.0	10061-02-6	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,3-trans-Dichloropropene	12.0000	UG/KG		ORVOA	13.0	15.0	10061-02-6	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	1,3-trans-Dichloropropene	11.0000	UG/KG		ORVOA	8.0	9.5	10061-02-6	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,3-trans-Dichloropropene	11.0000	UG/KG		ORVOA	3.5	5.0	10061-02-6	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	1,3-trans-Dichloropropene	11.0000	UG/KG		ORVOA	12.5	14.5	10061-02-6	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,3-trans-Dichloropropene	11.0000	UG/KG		ORVOA	9.5	11.5	10061-02-6	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	1,3-trans-Dichloropropene	10.0000	UG/KG		ORVOA	4.0	4.8	10061-02-6	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,3-trans-Dichloropropene	10.0000	UG/KG		ORVOA	5.5	7.5	10061-02-6	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,3-trans-Dichloropropene	9.0000	UG/KG		ORVOA	8.5	10.5	10061-02-6	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,3-trans-Dichloropropene	9.0000	UG/KG		ORVOA	6.5	8.5	10061-02-6	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	1,3-trans-Dichloropropene	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	10061-02-6	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	1,4-Dichlorobenzene	790.0000	UG/KG		ORSVO	8.0	9.5	106-46-7	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1,4-Dichlorobenzene	780.0000	UG/KG		ORSVO	13.0	15.0	106-46-7	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1,4-Dichlorobenzene	770.0000	UG/KG		ORSVO	13.0	15.0	106-46-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1,4-Dichlorobenzene	750.0000	UG/KG		ORSVO	8.5	10.5	106-46-7	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	1,4-Dichlorobenzene	750.0000	UG/KG		ORSVO	12.5	14.5	106-46-7	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1,4-Dichlorobenzene	740.0000	UG/KG		ORSVO	9.5	11.5	106-46-7	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	1,4-Dichlorobenzene	730.0000	UG/KG		ORSVO	8.0	9.5	106-46-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,4-Dichlorobenzene	730.0000	UG/KG		ORSVO	3.5	5.0	106-46-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	1,4-Dichlorobenzene	720.0000	UG/KG		ORSVO	6.5	8.5	106-46-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,4-Dichlorobenzene	690.0000	UG/KG		ORSVO	5.5	7.5	106-46-7	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	1,4-Dichlorobenzene	670.0000	UG/KG		ORSVO	4.0	4.8	106-46-7	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	1-chloro-4-phenoxybenzene	790.0000	UG/KG		ORSVO	8.0	9.5	7005-72-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	1-chloro-4-phenoxybenzene	780.0000	UG/KG		ORSVO	13.0	15.0	7005-72-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	1-chloro-4-phenoxybenzene	770.0000	UG/KG		ORSVO	13.0	15.0	7005-72-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	1-chloro-4-phenoxybenzene	750.0000	UG/KG		ORSVO	8.5	10.5	7005-72-3	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	1-chloro-4-phenoxybenzene	750.0000	UG/KG		ORSVO	12.5	14.5	7005-72-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	1-chloro-4-phenoxybenzene	740.0000	UG/KG		ORSVO	9.5	11.5	7005-72-3	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	1-chloro-4-phenoxybenzene	730.0000	UG/KG		ORSVO	8.0	9.5	7005-72-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1-chloro-4-phenoxybenzene	730.0000	UG/KG		ORSVO	3.5	5.0	7005-72-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	1-chloro-4-phenoxybenzene	720.0000	UG/KG		ORSVO	6.5	8.5	7005-72-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1-chloro-4-phenoxybenzene	690.0000	UG/KG		ORSVO	5.5	7.5	7005-72-3	U	U	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-29	1029-0004	Borehole	19930907	1-chloro-4-phenoxybenzene	670.0000	UG/KG		ORSVO	4.0	4.8	7005-72-3	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2,2'-oxybis(1-chloropropane)	790.0000	UG/KG		ORSVO	8.0	9.5	108-60-1	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2,2'-oxybis(1-chloropropane)	780.0000	UG/KG		ORSVO	13.0	15.0	108-60-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2,2'-oxybis(1-chloropropane)	770.0000	UG/KG		ORSVO	13.0	15.0	108-60-1	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2,2'-oxybis(1-chloropropane)	750.0000	UG/KG		ORSVO	8.5	10.5	108-60-1	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2,2'-oxybis(1-chloropropane)	750.0000	UG/KG		ORSVO	12.5	14.5	108-60-1	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2,2'-oxybis(1-chloropropane)	740.0000	UG/KG		ORSVO	9.5	11.5	108-60-1	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2,2'-oxybis(1-chloropropane)	730.0000	UG/KG		ORSVO	8.0	9.5	108-60-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,2'-oxybis(1-chloropropane)	730.0000	UG/KG		ORSVO	3.5	5.0	108-60-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,2'-oxybis(1-chloropropane)	720.0000	UG/KG		ORSVO	6.5	8.5	108-60-1	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,2'-oxybis(1-chloropropane)	690.0000	UG/KG		ORSVO	5.5	7.5	108-60-1	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2,2'-oxybis(1-chloropropane)	670.0000	UG/KG		ORSVO	4.0	4.8	108-60-1	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2,4,5-Trichlorophenol	4000.0000	UG/KG		ORSVO	8.0	9.5	95-95-4	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2,4,5-Trichlorophenol	4000.0000	UG/KG		ORSVO	13.0	15.0	95-95-4	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2,4,5-Trichlorophenol	4000.0000	UG/KG		ORSVO	13.0	15.0	95-95-4	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2,4,5-Trichlorophenol	3900.0000	UG/KG		ORSVO	8.5	10.5	95-95-4	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2,4,5-Trichlorophenol	3900.0000	UG/KG		ORSVO	12.5	14.5	95-95-4	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2,4,5-Trichlorophenol	3800.0000	UG/KG		ORSVO	8.0	9.5	95-95-4	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	2,4,5-Trichlorophenol	3800.0000	UG/KG		ORSVO	9.5	11.5	95-95-4	U	U	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	2,4,5-Trichlorophenol	3700.0000	UG/KG		ORSVO	3.5	5.0	95-95-4	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,4,5-Trichlorophenol	3700.0000	UG/KG		ORSVO	6.5	8.5	95-95-4	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,4,5-Trichlorophenol	3600.0000	UG/KG		ORSVO	5.5	7.5	95-95-4	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2,4,5-Trichlorophenol	3500.0000	UG/KG		ORSVO	4.0	4.8	95-95-4	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2,4,6-Trichlorophenol	790.0000	UG/KG		ORSVO	8.0	9.5	88-06-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2,4,6-Trichlorophenol	780.0000	UG/KG		ORSVO	13.0	15.0	88-06-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2,4,6-Trichlorophenol	770.0000	UG/KG		ORSVO	13.0	15.0	88-06-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2,4,6-Trichlorophenol	750.0000	UG/KG		ORSVO	8.5	10.5	88-06-2	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2,4,6-Trichlorophenol	750.0000	UG/KG		ORSVO	12.5	14.5	88-06-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2,4,6-Trichlorophenol	740.0000	UG/KG		ORSVO	9.5	11.5	88-06-2	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2,4,6-Trichlorophenol	730.0000	UG/KG		ORSVO	8.0	9.5	88-06-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,4,6-Trichlorophenol	730.0000	UG/KG		ORSVO	3.5	5.0	88-06-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,4,6-Trichlorophenol	720.0000	UG/KG		ORSVO	6.5	8.5	88-06-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,4,6-Trichlorophenol	690.0000	UG/KG		ORSVO	5.5	7.5	88-06-2	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2,4,6-Trichlorophenol	670.0000	UG/KG		ORSVO	4.0	4.8	88-06-2	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2,4-Dichlorophenol	790.0000	UG/KG		ORSVO	8.0	9.5	120-83-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2,4-Dichlorophenol	780.0000	UG/KG		ORSVO	13.0	15.0	120-83-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2,4-Dichlorophenol	770.0000	UG/KG		ORSVO	13.0	15.0	120-83-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2,4-Dichlorophenol	750.0000	UG/KG		ORSVO	8.5	10.5	120-83-2	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2,4-Dichlorophenol	750.0000	UG/KG		ORSVO	12.5	14.5	120-83-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2,4-Dichlorophenol	740.0000	UG/KG		ORSVO	9.5	11.5	120-83-2	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2,4-Dichlorophenol	730.0000	UG/KG		ORSVO	8.0	9.5	120-83-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,4-Dichlorophenol	730.0000	UG/KG		ORSVO	3.5	5.0	120-83-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,4-Dichlorophenol	720.0000	UG/KG		ORSVO	6.5	8.5	120-83-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,4-Dichlorophenol	690.0000	UG/KG		ORSVO	5.5	7.5	120-83-2	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2,4-Dichlorophenol	670.0000	UG/KG		ORSVO	4.0	4.8	120-83-2	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2,4-Dimethylphenol	790.0000	UG/KG		ORSVO	8.0	9.5	105-67-9	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2,4-Dimethylphenol	780.0000	UG/KG		ORSVO	13.0	15.0	105-67-9	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2,4-Dimethylphenol	770.0000	UG/KG		ORSVO	13.0	15.0	105-67-9	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2,4-Dimethylphenol	750.0000	UG/KG		ORSVO	8.5	10.5	105-67-9	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2,4-Dimethylphenol	750.0000	UG/KG		ORSVO	12.5	14.5	105-67-9	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2,4-Dimethylphenol	740.0000	UG/KG		ORSVO	9.5	11.5	105-67-9	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2,4-Dimethylphenol	730.0000	UG/KG		ORSVO	8.0	9.5	105-67-9	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,4-Dimethylphenol	730.0000	UG/KG		ORSVO	3.5	5.0	105-67-9	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,4-Dimethylphenol	720.0000	UG/KG		ORSVO	6.5	8.5	105-67-9	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,4-Dimethylphenol	690.0000	UG/KG		ORSVO	5.5	7.5	105-67-9	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2,4-Dimethylphenol	670.0000	UG/KG		ORSVO	4.0	4.8	105-67-9	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2,4-Dinitrophenol	4000.0000	UG/KG		ORSVO	8.0	9.5	51-28-5	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2,4-Dinitrophenol	4000.0000	UG/KG		ORSVO	13.0	15.0	51-28-5	U	UJ	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-2	1002-1015	Borehole	19930810	2,4-Dinitrophenol	4000.0000	UG/KG		ORSVO	13.0	15.0	51-28-5	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2,4-Dinitrophenol	3900.0000	UG/KG		ORSVO	8.5	10.5	51-28-5	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2,4-Dinitrophenol	3900.0000	UG/KG		ORSVO	12.5	14.5	51-28-5	U	UJ	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2,4-Dinitrophenol	3800.0000	UG/KG		ORSVO	8.0	9.5	51-28-5	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	2,4-Dinitrophenol	3800.0000	UG/KG		ORSVO	9.5	11.5	51-28-5	U	U	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	2,4-Dinitrophenol	3700.0000	UG/KG		ORSVO	3.5	5.0	51-28-5	U	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,4-Dinitrophenol	3700.0000	UG/KG		ORSVO	6.5	8.5	51-28-5	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,4-Dinitrophenol	3600.0000	UG/KG		ORSVO	5.5	7.5	51-28-5	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2,4-Dinitrophenol	3500.0000	UG/KG		ORSVO	4.0	4.8	51-28-5	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2,4-Dinitrotoluene	790.0000	UG/KG		ORSVO	8.0	9.5	121-14-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2,4-Dinitrotoluene	780.0000	UG/KG		ORSVO	13.0	15.0	121-14-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2,4-Dinitrotoluene	770.0000	UG/KG		ORSVO	13.0	15.0	121-14-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2,4-Dinitrotoluene	750.0000	UG/KG		ORSVO	8.5	10.5	121-14-2	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2,4-Dinitrotoluene	750.0000	UG/KG		ORSVO	12.5	14.5	121-14-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2,4-Dinitrotoluene	740.0000	UG/KG		ORSVO	9.5	11.5	121-14-2	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2,4-Dinitrotoluene	730.0000	UG/KG		ORSVO	8.0	9.5	121-14-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,4-Dinitrotoluene	730.0000	UG/KG		ORSVO	3.5	5.0	121-14-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,4-Dinitrotoluene	720.0000	UG/KG		ORSVO	6.5	8.5	121-14-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,4-Dinitrotoluene	690.0000	UG/KG		ORSVO	5.5	7.5	121-14-2	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2,4-Dinitrotoluene	670.0000	UG/KG		ORSVO	4.0	4.8	121-14-2	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2,6-Dinitrotoluene	790.0000	UG/KG		ORSVO	8.0	9.5	606-20-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2,6-Dinitrotoluene	780.0000	UG/KG		ORSVO	13.0	15.0	606-20-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2,6-Dinitrotoluene	770.0000	UG/KG		ORSVO	13.0	15.0	606-20-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2,6-Dinitrotoluene	750.0000	UG/KG		ORSVO	8.5	10.5	606-20-2	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2,6-Dinitrotoluene	750.0000	UG/KG		ORSVO	12.5	14.5	606-20-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2,6-Dinitrotoluene	740.0000	UG/KG		ORSVO	9.5	11.5	606-20-2	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2,6-Dinitrotoluene	730.0000	UG/KG		ORSVO	8.0	9.5	606-20-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,6-Dinitrotoluene	730.0000	UG/KG		ORSVO	3.5	5.0	606-20-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,6-Dinitrotoluene	720.0000	UG/KG		ORSVO	6.5	8.5	606-20-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,6-Dinitrotoluene	690.0000	UG/KG		ORSVO	5.5	7.5	606-20-2	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2,6-Dinitrotoluene	670.0000	UG/KG		ORSVO	4.0	4.8	606-20-2	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2-Butanone	12.0000	UG/KG		ORVOA	8.0	9.5	78-93-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2-Butanone	12.0000	UG/KG		ORVOA	13.0	15.0	78-93-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2-Butanone	12.0000	UG/KG		ORVOA	13.0	15.0	78-93-3	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	2-Butanone	11.0000	UG/KG		ORVOA	8.0	9.5	78-93-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Butanone	11.0000	UG/KG		ORVOA	3.5	5.0	78-93-3	U	UJ	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	2-Butanone	11.0000	UG/KG		ORVOA	12.5	14.5	78-93-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2-Butanone	11.0000	UG/KG		ORVOA	9.5	11.5	78-93-3	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	2-Butanone	10.0000	UG/KG		ORVOA	4.0	4.8	78-93-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Butanone	10.0000	UG/KG		ORVOA	5.5	7.5	78-93-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2-Butanone	9.0000	UG/KG		ORVOA	8.5	10.5	78-93-3	U	UJ	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	2-Butanone	9.0000	UG/KG		ORVOA	6.5	8.5	78-93-3	U	UJ	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	2-Butanone	6.5000	UG/KG	12.0000	ORVOA	10.0	15.0	78-93-3	J		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	2-Chloronaphthalene	790.0000	UG/KG		ORSVO	8.0	9.5	91-58-7	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2-Chloronaphthalene	780.0000	UG/KG		ORSVO	13.0	15.0	91-58-7	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2-Chloronaphthalene	770.0000	UG/KG		ORSVO	13.0	15.0	91-58-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2-Chloronaphthalene	750.0000	UG/KG		ORSVO	8.5	10.5	91-58-7	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2-Chloronaphthalene	750.0000	UG/KG		ORSVO	12.5	14.5	91-58-7	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2-Chloronaphthalene	740.0000	UG/KG		ORSVO	9.5	11.5	91-58-7	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2-Chloronaphthalene	730.0000	UG/KG		ORSVO	8.0	9.5	91-58-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Chloronaphthalene	730.0000	UG/KG		ORSVO	3.5	5.0	91-58-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2-Chloronaphthalene	720.0000	UG/KG		ORSVO	6.5	8.5	91-58-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Chloronaphthalene	690.0000	UG/KG		ORSVO	5.5	7.5	91-58-7	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2-Chloronaphthalene	670.0000	UG/KG		ORSVO	4.0	4.8	91-58-7	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2-Chlorophenol	790.0000	UG/KG		ORSVO	8.0	9.5	95-57-8	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2-Chlorophenol	780.0000	UG/KG		ORSVO	13.0	15.0	95-57-8	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2-Chlorophenol	770.0000	UG/KG		ORSVO	13.0	15.0	95-57-8	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2-Chlorophenol	750.0000	UG/KG		ORSVO	8.5	10.5	95-57-8	U	U	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
B-3	4002-0014	Borehole	19930811	2-Chlorophenol	750.0000	UG/KG		ORSVO	12.5	14.5	95-57-8	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2-Chlorophenol	740.0000	UG/KG		ORSVO	9.5	11.5	95-57-8	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2-Chlorophenol	730.0000	UG/KG		ORSVO	8.0	9.5	95-57-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Chlorophenol	730.0000	UG/KG		ORSVO	3.5	5.0	95-57-8	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2-Chlorophenol	720.0000	UG/KG		ORSVO	6.5	8.5	95-57-8	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Chlorophenol	690.0000	UG/KG		ORSVO	5.5	7.5	95-57-8	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2-Chlorophenol	670.0000	UG/KG		ORSVO	4.0	4.8	95-57-8	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	2-Hexanone	12.0000	UG/KG	12.0000	ORVOA	10.0	15.0	591-78-6	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	2-Hexanone	12.0000	UG/KG		ORVOA	8.0	9.5	591-78-6	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2-Hexanone	12.0000	UG/KG		ORVOA	13.0	15.0	591-78-6	U	UJ	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2-Hexanone	12.0000	UG/KG		ORVOA	13.0	15.0	591-78-6	U	UJ	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	2-Hexanone	11.0000	UG/KG		ORVOA	8.0	9.5	591-78-6	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Hexanone	11.0000	UG/KG		ORVOA	3.5	5.0	591-78-6	U	UJ	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	2-Hexanone	11.0000	UG/KG		ORVOA	12.5	14.5	591-78-6	U	UJ	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2-Hexanone	11.0000	UG/KG		ORVOA	9.5	11.5	591-78-6	U	UJ	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	2-Hexanone	10.0000	UG/KG		ORVOA	4.0	4.8	591-78-6	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Hexanone	10.0000	UG/KG		ORVOA	5.5	7.5	591-78-6	U	UJ	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2-Hexanone	9.0000	UG/KG		ORVOA	8.5	10.5	591-78-6	U	UJ	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	2-Hexanone	9.0000	UG/KG		ORVOA	6.5	8.5	591-78-6	U	UJ	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2-Methylnaphthalene	790.0000	UG/KG		ORSVO	8.0	9.5	91-57-6	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2-Methylnaphthalene	780.0000	UG/KG		ORSVO	13.0	15.0	91-57-6	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2-Methylnaphthalene	770.0000	UG/KG		ORSVO	13.0	15.0	91-57-6	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2-Methylnaphthalene	750.0000	UG/KG		ORSVO	8.5	10.5	91-57-6	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2-Methylnaphthalene	750.0000	UG/KG		ORSVO	12.5	14.5	91-57-6	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2-Methylnaphthalene	740.0000	UG/KG		ORSVO	9.5	11.5	91-57-6	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2-Methylnaphthalene	730.0000	UG/KG		ORSVO	8.0	9.5	91-57-6	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Methylnaphthalene	730.0000	UG/KG		ORSVO	3.5	5.0	91-57-6	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2-Methylnaphthalene	720.0000	UG/KG		ORSVO	6.5	8.5	91-57-6	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Methylnaphthalene	690.0000	UG/KG		ORSVO	5.5	7.5	91-57-6	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2-Methylnaphthalene	670.0000	UG/KG		ORSVO	4.0	4.8	91-57-6	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2-Methylphenol	790.0000	UG/KG		ORSVO	8.0	9.5	95-48-7	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2-Methylphenol	780.0000	UG/KG		ORSVO	13.0	15.0	95-48-7	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2-Methylphenol	770.0000	UG/KG		ORSVO	13.0	15.0	95-48-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2-Methylphenol	750.0000	UG/KG		ORSVO	8.5	10.5	95-48-7	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2-Methylphenol	750.0000	UG/KG		ORSVO	12.5	14.5	95-48-7	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2-Methylphenol	740.0000	UG/KG		ORSVO	9.5	11.5	95-48-7	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2-Methylphenol	730.0000	UG/KG		ORSVO	8.0	9.5	95-48-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Methylphenol	730.0000	UG/KG		ORSVO	3.5	5.0	95-48-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2-Methylphenol	720.0000	UG/KG		ORSVO	6.5	8.5	95-48-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Methylphenol	690.0000	UG/KG		ORSVO	5.5	7.5	95-48-7	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2-Methylphenol	670.0000	UG/KG		ORSVO	4.0	4.8	95-48-7	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2-Nitroaniline	4000.0000	UG/KG		ORSVO	8.0	9.5	88-74-4	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2-Nitroaniline	4000.0000	UG/KG		ORSVO	13.0	15.0	88-74-4	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2-Nitroaniline	4000.0000	UG/KG		ORSVO	13.0	15.0	88-74-4	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2-Nitroaniline	3900.0000	UG/KG		ORSVO	8.5	10.5	88-74-4	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2-Nitroaniline	3900.0000	UG/KG		ORSVO	12.5	14.5	88-74-4	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	2-Nitroaniline	3800.0000	UG/KG		ORSVO	8.0	9.5	88-74-4	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	2-Nitroaniline	3800.0000	UG/KG		ORSVO	9.5	11.5	88-74-4	U	U	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	2-Nitroaniline	3700.0000	UG/KG		ORSVO	3.5	5.0	88-74-4	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2-Nitroaniline	3700.0000	UG/KG		ORSVO	6.5	8.5	88-74-4	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Nitroaniline	3600.0000	UG/KG		ORSVO	5.5	7.5	88-74-4	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2-Nitroaniline	3500.0000	UG/KG		ORSVO	4.0	4.8	88-74-4	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	2-Nitrophenol	790.0000	UG/KG		ORSVO	8.0	9.5	88-75-5	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	2-Nitrophenol	780.0000	UG/KG		ORSVO	13.0	15.0	88-75-5	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	2-Nitrophenol	770.0000	UG/KG		ORSVO	13.0	15.0	88-75-5	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	2-Nitrophenol	750.0000	UG/KG		ORSVO	8.5	10.5	88-75-5	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	2-Nitrophenol	750.0000	UG/KG		ORSVO	12.5	14.5	88-75-5	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	2-Nitrophenol	740.0000	UG/KG		ORSVO	9.5	11.5	88-75-5	U	U	MND16	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-16	1016-1009	Borehole	19930921	2-Nitrophenol	730.0000	UG/KG		ORSVO	8.0	9.5	88-75-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Nitrophenol	730.0000	UG/KG		ORSVO	3.5	5.0	88-75-5	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2-Nitrophenol	720.0000	UG/KG		ORSVO	6.5	8.5	88-75-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Nitrophenol	690.0000	UG/KG		ORSVO	5.5	7.5	88-75-5	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	2-Nitrophenol	670.0000	UG/KG		ORSVO	4.0	4.8	88-75-5	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	3,3'-Dichlorobenzidine	790.0000	UG/KG		ORSVO	8.0	9.5	91-94-1	U	UJ	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	3,3'-Dichlorobenzidine	780.0000	UG/KG		ORSVO	13.0	15.0	91-94-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	3,3'-Dichlorobenzidine	770.0000	UG/KG		ORSVO	13.0	15.0	91-94-1	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	3,3'-Dichlorobenzidine	750.0000	UG/KG		ORSVO	8.5	10.5	91-94-1	U	UJ	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	3,3'-Dichlorobenzidine	750.0000	UG/KG		ORSVO	12.5	14.5	91-94-1	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	3,3'-Dichlorobenzidine	740.0000	UG/KG		ORSVO	9.5	11.5	91-94-1	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	3,3'-Dichlorobenzidine	730.0000	UG/KG		ORSVO	8.0	9.5	91-94-1	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	3,3'-Dichlorobenzidine	730.0000	UG/KG		ORSVO	3.5	5.0	91-94-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	3,3'-Dichlorobenzidine	720.0000	UG/KG		ORSVO	6.5	8.5	91-94-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	3,3'-Dichlorobenzidine	690.0000	UG/KG		ORSVO	5.5	7.5	91-94-1	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	3,3'-Dichlorobenzidine	670.0000	UG/KG		ORSVO	4.0	4.8	91-94-1	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	3-Nitroaniline	4000.0000	UG/KG		ORSVO	8.0	9.5	99-09-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	3-Nitroaniline	4000.0000	UG/KG		ORSVO	13.0	15.0	99-09-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	3-Nitroaniline	4000.0000	UG/KG		ORSVO	13.0	15.0	99-09-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	3-Nitroaniline	3900.0000	UG/KG		ORSVO	8.5	10.5	99-09-2	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	3-Nitroaniline	3900.0000	UG/KG		ORSVO	12.5	14.5	99-09-2	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	3-Nitroaniline	3800.0000	UG/KG		ORSVO	8.0	9.5	99-09-2	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	3-Nitroaniline	3800.0000	UG/KG		ORSVO	9.5	11.5	99-09-2	U	U	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	3-Nitroaniline	3700.0000	UG/KG		ORSVO	3.5	5.0	99-09-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	3-Nitroaniline	3700.0000	UG/KG		ORSVO	6.5	8.5	99-09-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	3-Nitroaniline	3600.0000	UG/KG		ORSVO	5.5	7.5	99-09-2	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	3-Nitroaniline	3500.0000	UG/KG		ORSVO	4.0	4.8	99-09-2	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	4,6-Dinitro-o-Cresol	4000.0000	UG/KG		ORSVO	8.0	9.5	534-52-1	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	4,6-Dinitro-o-Cresol	4000.0000	UG/KG		ORSVO	13.0	15.0	534-52-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	4,6-Dinitro-o-Cresol	4000.0000	UG/KG		ORSVO	13.0	15.0	534-52-1	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	4,6-Dinitro-o-Cresol	3900.0000	UG/KG		ORSVO	8.5	10.5	534-52-1	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	4,6-Dinitro-o-Cresol	3900.0000	UG/KG		ORSVO	12.5	14.5	534-52-1	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	4,6-Dinitro-o-Cresol	3800.0000	UG/KG		ORSVO	8.0	9.5	534-52-1	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	4,6-Dinitro-o-Cresol	3800.0000	UG/KG		ORSVO	9.5	11.5	534-52-1	U	U	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	4,6-Dinitro-o-Cresol	3700.0000	UG/KG		ORSVO	3.5	5.0	534-52-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	4,6-Dinitro-o-Cresol	3700.0000	UG/KG		ORSVO	6.5	8.5	534-52-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	4,6-Dinitro-o-Cresol	3600.0000	UG/KG		ORSVO	5.5	7.5	534-52-1	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	4,6-Dinitro-o-Cresol	3500.0000	UG/KG		ORSVO	4.0	4.8	534-52-1	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	4-Bromophenyl-phenyl Ether	790.0000	UG/KG		ORSVO	8.0	9.5	101-55-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	4-Bromophenyl-phenyl Ether	780.0000	UG/KG		ORSVO	13.0	15.0	101-55-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	4-Bromophenyl-phenyl Ether	770.0000	UG/KG		ORSVO	13.0	15.0	101-55-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	4-Bromophenyl-phenyl Ether	750.0000	UG/KG		ORSVO	8.5	10.5	101-55-3	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	4-Bromophenyl-phenyl Ether	750.0000	UG/KG		ORSVO	12.5	14.5	101-55-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	4-Bromophenyl-phenyl Ether	740.0000	UG/KG		ORSVO	9.5	11.5	101-55-3	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	4-Bromophenyl-phenyl Ether	730.0000	UG/KG		ORSVO	8.0	9.5	101-55-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4-Bromophenyl-phenyl Ether	730.0000	UG/KG		ORSVO	3.5	5.0	101-55-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	4-Bromophenyl-phenyl Ether	720.0000	UG/KG		ORSVO	6.5	8.5	101-55-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	4-Bromophenyl-phenyl Ether	690.0000	UG/KG		ORSVO	5.5	7.5	101-55-3	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	4-Bromophenyl-phenyl Ether	670.0000	UG/KG		ORSVO	4.0	4.8	101-55-3	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	4-Chloro-3-methylphenol	790.0000	UG/KG		ORSVO	8.0	9.5	59-50-7	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	4-Chloro-3-methylphenol	780.0000	UG/KG		ORSVO	13.0	15.0	59-50-7	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	4-Chloro-3-methylphenol	770.0000	UG/KG		ORSVO	13.0	15.0	59-50-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	4-Chloro-3-methylphenol	750.0000	UG/KG		ORSVO	8.5	10.5	59-50-7	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	4-Chloro-3-methylphenol	750.0000	UG/KG		ORSVO	12.5	14.5	59-50-7	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	4-Chloro-3-methylphenol	740.0000	UG/KG		ORSVO	9.5	11.5	59-50-7	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	4-Chloro-3-methylphenol	730.0000	UG/KG		ORSVO	8.0	9.5	59-50-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4-Chloro-3-methylphenol	730.0000	UG/KG		ORSVO	3.5	5.0	59-50-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	4-Chloro-3-methylphenol	720.0000	UG/KG		ORSVO	6.5	8.5	59-50-7	U	U	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-9	1009-0006	Borehole	19930817	4-Chloro-3-methylphenol	690.0000	UG/KG		ORSVO	5.5	7.5	59-50-7	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	4-Chloro-3-methylphenol	670.0000	UG/KG		ORSVO	4.0	4.8	59-50-7	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	4-Chloroaniline	790.0000	UG/KG		ORSVO	8.0	9.5	106-47-8	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	4-Chloroaniline	780.0000	UG/KG		ORSVO	13.0	15.0	106-47-8	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	4-Chloroaniline	770.0000	UG/KG		ORSVO	13.0	15.0	106-47-8	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	4-Chloroaniline	750.0000	UG/KG		ORSVO	8.5	10.5	106-47-8	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	4-Chloroaniline	750.0000	UG/KG		ORSVO	12.5	14.5	106-47-8	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	4-Chloroaniline	740.0000	UG/KG		ORSVO	9.5	11.5	106-47-8	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	4-Chloroaniline	730.0000	UG/KG		ORSVO	8.0	9.5	106-47-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4-Chloroaniline	730.0000	UG/KG		ORSVO	3.5	5.0	106-47-8	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	4-Chloroaniline	720.0000	UG/KG		ORSVO	6.5	8.5	106-47-8	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	4-Chloroaniline	690.0000	UG/KG		ORSVO	5.5	7.5	106-47-8	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	4-Chloroaniline	670.0000	UG/KG		ORSVO	4.0	4.8	106-47-8	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	4-Methyl-2-pentanone	12.0000	UG/KG	12.0000	ORVOA	10.0	15.0	108-10-1	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	4-Methyl-2-pentanone	12.0000	UG/KG		ORVOA	8.0	9.5	108-10-1	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	4-Methyl-2-pentanone	12.0000	UG/KG		ORVOA	13.0	15.0	108-10-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	4-Methyl-2-pentanone	12.0000	UG/KG		ORVOA	13.0	15.0	108-10-1	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	4-Methyl-2-pentanone	11.0000	UG/KG		ORVOA	8.0	9.5	108-10-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4-Methyl-2-pentanone	11.0000	UG/KG		ORVOA	3.5	5.0	108-10-1	U	UJ	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	4-Methyl-2-pentanone	11.0000	UG/KG		ORVOA	12.5	14.5	108-10-1	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	4-Methyl-2-pentanone	11.0000	UG/KG		ORVOA	9.5	11.5	108-10-1	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	4-Methyl-2-pentanone	10.0000	UG/KG		ORVOA	4.0	4.8	108-10-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	4-Methyl-2-pentanone	10.0000	UG/KG		ORVOA	5.5	7.5	108-10-1	U	UJ	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	4-Methyl-2-pentanone	9.0000	UG/KG		ORVOA	8.5	10.5	108-10-1	U	UJ	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	4-Methyl-2-pentanone	9.0000	UG/KG		ORVOA	6.5	8.5	108-10-1	U	UJ	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	4-Methylphenol	790.0000	UG/KG		ORSVO	8.0	9.5	106-44-5	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	4-Methylphenol	780.0000	UG/KG		ORSVO	13.0	15.0	106-44-5	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	4-Methylphenol	770.0000	UG/KG		ORSVO	13.0	15.0	106-44-5	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	4-Methylphenol	750.0000	UG/KG		ORSVO	8.5	10.5	106-44-5	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	4-Methylphenol	750.0000	UG/KG		ORSVO	12.5	14.5	106-44-5	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	4-Methylphenol	740.0000	UG/KG		ORSVO	9.5	11.5	106-44-5	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	4-Methylphenol	730.0000	UG/KG		ORSVO	8.0	9.5	106-44-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4-Methylphenol	730.0000	UG/KG		ORSVO	3.5	5.0	106-44-5	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	4-Methylphenol	720.0000	UG/KG		ORSVO	6.5	8.5	106-44-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	4-Methylphenol	690.0000	UG/KG		ORSVO	5.5	7.5	106-44-5	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	4-Methylphenol	670.0000	UG/KG		ORSVO	4.0	4.8	106-44-5	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	4-Nitroaniline	4000.0000	UG/KG		ORSVO	8.0	9.5	100-01-6	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	4-Nitroaniline	4000.0000	UG/KG		ORSVO	13.0	15.0	100-01-6	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	4-Nitroaniline	4000.0000	UG/KG		ORSVO	13.0	15.0	100-01-6	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	4-Nitroaniline	3900.0000	UG/KG		ORSVO	8.5	10.5	100-01-6	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	4-Nitroaniline	3900.0000	UG/KG		ORSVO	12.5	14.5	100-01-6	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	4-Nitroaniline	3800.0000	UG/KG		ORSVO	8.0	9.5	100-01-6	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	4-Nitroaniline	3800.0000	UG/KG		ORSVO	9.5	11.5	100-01-6	U	U	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	4-Nitroaniline	3700.0000	UG/KG		ORSVO	3.5	5.0	100-01-6	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	4-Nitroaniline	3700.0000	UG/KG		ORSVO	6.5	8.5	100-01-6	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	4-Nitroaniline	3600.0000	UG/KG		ORSVO	5.5	7.5	100-01-6	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	4-Nitroaniline	3500.0000	UG/KG		ORSVO	4.0	4.8	100-01-6	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	4-Nitrophenol	4000.0000	UG/KG		ORSVO	8.0	9.5	100-02-7	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	4-Nitrophenol	4000.0000	UG/KG		ORSVO	13.0	15.0	100-02-7	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	4-Nitrophenol	4000.0000	UG/KG		ORSVO	13.0	15.0	100-02-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	4-Nitrophenol	3900.0000	UG/KG		ORSVO	8.5	10.5	100-02-7	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	4-Nitrophenol	3900.0000	UG/KG		ORSVO	12.5	14.5	100-02-7	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	4-Nitrophenol	3800.0000	UG/KG		ORSVO	8.0	9.5	100-02-7	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	4-Nitrophenol	3800.0000	UG/KG		ORSVO	9.5	11.5	100-02-7	U	U	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	4-Nitrophenol	3700.0000	UG/KG		ORSVO	3.5	5.0	100-02-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	4-Nitrophenol	3700.0000	UG/KG		ORSVO	6.5	8.5	100-02-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	4-Nitrophenol	3600.0000	UG/KG		ORSVO	5.5	7.5	100-02-7	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	4-Nitrophenol	3500.0000	UG/KG		ORSVO	4.0	4.8	100-02-7	U	U	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-16	1016-0009	Borehole	19930921	Acenaphthene	790.0000	UG/KG		ORSVO	8.0	9.5	83-32-9	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Acenaphthene	780.0000	UG/KG		ORSVO	13.0	15.0	83-32-9	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Acenaphthene	770.0000	UG/KG		ORSVO	13.0	15.0	83-32-9	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Acenaphthene	750.0000	UG/KG		ORSVO	8.5	10.5	83-32-9	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Acenaphthene	750.0000	UG/KG		ORSVO	12.5	14.5	83-32-9	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Acenaphthene	740.0000	UG/KG		ORSVO	9.5	11.5	83-32-9	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Acenaphthene	730.0000	UG/KG		ORSVO	8.0	9.5	83-32-9	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Acenaphthene	730.0000	UG/KG		ORSVO	3.5	5.0	83-32-9	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Acenaphthene	720.0000	UG/KG		ORSVO	6.5	8.5	83-32-9	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Acenaphthene	690.0000	UG/KG		ORSVO	5.5	7.5	83-32-9	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Acenaphthene	670.0000	UG/KG		ORSVO	4.0	4.8	83-32-9	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Acenaphthylene	790.0000	UG/KG		ORSVO	8.0	9.5	208-96-8	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Acenaphthylene	780.0000	UG/KG		ORSVO	13.0	15.0	208-96-8	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Acenaphthylene	770.0000	UG/KG		ORSVO	13.0	15.0	208-96-8	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Acenaphthylene	750.0000	UG/KG		ORSVO	8.5	10.5	208-96-8	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Acenaphthylene	750.0000	UG/KG		ORSVO	12.5	14.5	208-96-8	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Acenaphthylene	740.0000	UG/KG		ORSVO	9.5	11.5	208-96-8	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Acenaphthylene	730.0000	UG/KG		ORSVO	8.0	9.5	208-96-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Acenaphthylene	730.0000	UG/KG		ORSVO	3.5	5.0	208-96-8	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Acenaphthylene	720.0000	UG/KG		ORSVO	6.5	8.5	208-96-8	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Acenaphthylene	690.0000	UG/KG		ORSVO	5.5	7.5	208-96-8	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Acenaphthylene	670.0000	UG/KG		ORSVO	4.0	4.8	208-96-8	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Acetone	66.0000	UG/KG		ORVOA	4.0	4.8	67-64-1	B	UJ	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Acetone	55.0000	UG/KG		ORVOA	13.0	15.0	67-64-1		UJ	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Acetone	51.0000	UG/KG		ORVOA	12.5	14.5	67-64-1		UJ	MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Acetone	43.0000	UG/KG		ORVOA	8.0	9.5	67-64-1	B	UJ	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Acetone	43.0000	UG/KG		ORVOA	6.5	8.5	67-64-1		UJ	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Acetone	41.0000	UG/KG	12.0000	ORVOA	10.0	15.0	67-64-1	B		WDSOIL02	Soil	Geoprobe (DPT)	
A-2	1002-1015	Borehole	19930810	Acetone	36.0000	UG/KG		ORVOA	13.0	15.0	67-64-1		UJ	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Acetone	35.0000	UG/KG		ORVOA	8.0	9.5	67-64-1	B	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Acetone	34.0000	UG/KG		ORVOA	3.5	5.0	67-64-1		UJ	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Acetone	30.0000	UG/KG		ORVOA	9.5	11.5	67-64-1		J	MND16	Soil	Unknown	
A-10	1010-0009	Borehole	19930819	Acetone	28.0000	UG/KG		ORVOA	8.5	10.5	67-64-1		J	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Acetone	17.0000	UG/KG		ORVOA	5.5	7.5	67-64-1		J	MND16	Soil	Split spoon	
B0WD013	000113	Borehole	20020308	Actinium-227	0.3500	PCI/G	0.3500	RAD	0.0	5.0	14952-40-0	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000115	Borehole	20020308	Actinium-227	0.3000	PCI/G	0.3000	RAD	10.0	15.0	14952-40-0	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000114	Borehole	20020308	Actinium-227	0.2000	PCI/G	0.2000	RAD	5.0	10.0	14952-40-0	U		WDSOIL02	Soil	Geoprobe (DPT)	
B00B013	B00B013	Surface locati	20000918	Actinium-227	0.1300	PCI/G	0.1300	RAD	0.0	0.0	14952-40-0	U		B BLDG C	Soil	Unknown	
B00B012	B00B012	Surface locati	20000918	Actinium-227	0.1300	PCI/G	0.1300	RAD	0.0	0.0	14952-40-0	U		B BLDG C	Soil	Unknown	
B00B014	B00B014	Surface locati	20000920	Actinium-227	0.1000	PCI/G	0.1000	RAD	0.0	0.0	14952-40-0	U		B BLDG C	Soil	Unknown	
B00B011	B00B011	Surface locati	20000918	Actinium-227	0.1000	PCI/G	0.1000	RAD	0.0	0.0	14952-40-0	U		B BLDG C	Soil	Unknown	
B00B010	B00B010	Surface locati	20000918	Actinium-227	0.0600	PCI/G	0.0600	RAD	0.0	0.0	14952-40-0	U		B BLDG C	Soil	Unknown	
B00B024	B00B024	Surface locati	20000921	Actinium-227	0.0400	PCI/G	0.0400	RAD	0.0	0.0	14952-40-0	U		B BLDG C	Soil	Unknown	
B00B025	B00B025	Surface locati	20000921	Actinium-227	0.0300	PCI/G	0.0300	RAD	0.0	0.0	14952-40-0	U		B BLDG C	Soil	Unknown	
A-2	1002-0015	Borehole	19930810	Aluminum	16300.0000	MG/KG		INORG	13.0	15.0	7429-90-5		J	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Aluminum	16100.0000	MG/KG		INORG	13.0	15.0	7429-90-5		J	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Aluminum	14600.0000	MG/KG		INORG	9.5	11.5	7429-90-5		J	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aluminum	13300.0000	MG/KG		INORG	6.5	8.5	7429-90-5			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aluminum	10400.0000	MG/KG		INORG	3.5	5.0	7429-90-5			MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Aluminum	10200.0000	MG/KG		INORG	8.0	9.5	7429-90-5			MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Aluminum	9620.0000	MG/KG		INORG	12.5	14.5	7429-90-5		J	MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Aluminum	9030.0000	MG/KG		INORG	8.0	9.5	7429-90-5			MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Aluminum	7190.0000	MG/KG		INORG	8.5	10.5	7429-90-5			MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Aluminum	6660.0000	MG/KG	8.6000	INORG	10.0	15.0	7429-90-5	N		WDSOIL02	Soil	Geoprobe (DPT)	
A-9	1009-0006	Borehole	19930817	Aluminum	6140.0000	MG/KG		INORG	5.5	7.5	7429-90-5		J	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Aluminum	5720.0000	MG/KG		INORG	4.0	4.8	7429-90-5			MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Americium-241	4.4000	PCI/G	4.4000	RAD	8.0	9.5	14596-10-2	U		MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Americium-241	2.1000	PCI/G	2.1000	RAD	8.0	9.5	14596-10-2	U		MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-9	1009-0006	Borehole	19930817	Americium-241	1.1000	PCI/G		RAD	5.5	7.5	14596-10-2			MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Americium-241	0.5400	PCI/G	0.5400	RAD	4.0	4.8	14596-10-2	U		MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Americium-241	0.2900	PCI/G	0.2900	RAD	13.0	15.0	14596-10-2	U		MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Americium-241	0.1700	PCI/G	0.1700	RAD	6.5	8.5	14596-10-2	U		MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Americium-241	0.1200	PCI/G	0.1200	RAD	8.5	10.5	14596-10-2	U		MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Americium-241	0.1200	PCI/G	0.1200	RAD	13.0	15.0	14596-10-2	U		MND16	Soil	Split spoon	
B0WD013	000113	Borehole	20020308	Americium-241	0.1100	PCI/G	0.1100	RAD	0.0	5.0	14596-10-2	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-5	1005-0011	Borehole	19930805	Americium-241	0.1000	PCI/G	0.0400	RAD	9.5	11.5	14596-10-2			MND16	Soil	Unknown	
B0WD013	000115	Borehole	20020308	Americium-241	0.0900	PCI/G	0.0900	RAD	10.0	15.0	14596-10-2	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000114	Borehole	20020308	Americium-241	0.0600	PCI/G	0.0600	RAD	5.0	10.0	14596-10-2	U		WDSOIL02	Soil	Geoprobe (DPT)	
B00B014	B00B014	Surface locati	20000920	Americium-241	0.0300	PCI/G	0.0300	RAD	0.0	0.0	14596-10-2	U		B BLDG C	Soil	Unknown	
B00B013	B00B013	Surface locati	20000918	Americium-241	0.0300	PCI/G	0.0300	RAD	0.0	0.0	14596-10-2	U		B BLDG C	Soil	Unknown	
B00B012	B00B012	Surface locati	20000918	Americium-241	0.0300	PCI/G	0.0300	RAD	0.0	0.0	14596-10-2	U		B BLDG C	Soil	Unknown	
B00B011	B00B011	Surface locati	20000918	Americium-241	0.0300	PCI/G	0.0300	RAD	0.0	0.0	14596-10-2	U		B BLDG C	Soil	Unknown	
B00B010	B00B010	Surface locati	20000918	Americium-241	0.0300	PCI/G	0.0300	RAD	0.0	0.0	14596-10-2	U		B BLDG C	Soil	Unknown	
B00B024	B00B024	Surface locati	20000921	Americium-241	0.0200	PCI/G	0.0200	RAD	0.0	0.0	14596-10-2	U		B BLDG C	Soil	Unknown	
B00B025	B00B025	Surface locati	20000921	Americium-241	0.0100	PCI/G	0.0100	RAD	0.0	0.0	14596-10-2	U		B BLDG C	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Anthracene	790.0000	UG/KG		ORSVO	8.0	9.5	120-12-7	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Anthracene	780.0000	UG/KG		ORSVO	13.0	15.0	120-12-7	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Anthracene	770.0000	UG/KG		ORSVO	13.0	15.0	120-12-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Anthracene	750.0000	UG/KG		ORSVO	8.5	10.5	120-12-7	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Anthracene	750.0000	UG/KG		ORSVO	12.5	14.5	120-12-7	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Anthracene	740.0000	UG/KG		ORSVO	9.5	11.5	120-12-7	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Anthracene	730.0000	UG/KG		ORSVO	8.0	9.5	120-12-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Anthracene	730.0000	UG/KG		ORSVO	3.5	5.0	120-12-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Anthracene	720.0000	UG/KG		ORSVO	6.5	8.5	120-12-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Anthracene	690.0000	UG/KG		ORSVO	5.5	7.5	120-12-7	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Anthracene	670.0000	UG/KG		ORSVO	4.0	4.8	120-12-7	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Antimony	45.2000	MG/KG		INORG	8.0	9.5	7440-36-0	U	UJ	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Antimony	43.4000	MG/KG		INORG	8.5	10.5	7440-36-0	U	R	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Antimony	42.2000	MG/KG		INORG	8.0	9.5	7440-36-0	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Antimony	40.0000	MG/KG		INORG	5.5	7.5	7440-36-0	U	R	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Antimony	38.6000	MG/KG		INORG	4.0	4.8	7440-36-0	U	U	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Antimony	17.3000	MG/KG		INORG	12.5	14.5	7440-36-0	U	UJ	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Antimony	16.7000	MG/KG		INORG	3.5	5.0	7440-36-0	U	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Antimony	16.6000	MG/KG		INORG	6.5	8.5	7440-36-0	U	R	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Antimony	8.9000	MG/KG		INORG	13.0	15.0	7440-36-0	U	UJ	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Antimony	8.9000	MG/KG		INORG	13.0	15.0	7440-36-0	U	UJ	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Antimony	8.5000	MG/KG		INORG	9.5	11.5	7440-36-0	U	UJ	MND16	Soil	Unknown	
B0WD013	000115	Borehole	20020308	Antimony	2.5000	MG/KG	2.5000	INORG	10.0	15.0	7440-36-0	UN		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Aroclor-1016	40.0000	UG/KG		ORPPB	8.0	9.5	12674-11-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Aroclor-1016	39.0000	UG/KG		ORPPB	13.0	15.0	12674-11-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Aroclor-1016	39.0000	UG/KG		ORPPB	13.0	15.0	12674-11-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Aroclor-1016	38.0000	UG/KG		ORPPB	8.5	10.5	12674-11-2	U	U	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Aroclor-1016	38.0000	UG/KG		ORPPB	12.5	14.5	12674-11-2	U	UJ	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Aroclor-1016	37.0000	UG/KG		ORPPB	8.0	9.5	12674-11-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1016	37.0000	UG/KG		ORPPB	3.5	5.0	12674-11-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Aroclor-1016	37.0000	UG/KG		ORPPB	9.5	11.5	12674-11-2	U	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1016	36.0000	UG/KG		ORPPB	6.5	8.5	12674-11-2	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1016	35.0000	UG/KG		ORPPB	5.5	7.5	12674-11-2	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Aroclor-1016	34.0000	UG/KG		ORPPB	4.0	4.8	12674-11-2	U	UJ	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Aroclor-1221	80.0000	UG/KG		ORPPB	8.0	9.5	11104-28-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Aroclor-1221	78.0000	UG/KG		ORPPB	13.0	15.0	11104-28-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Aroclor-1221	78.0000	UG/KG		ORPPB	13.0	15.0	11104-28-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Aroclor-1221	76.0000	UG/KG		ORPPB	8.5	10.5	11104-28-2	U	U	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Aroclor-1221	76.0000	UG/KG		ORPPB	12.5	14.5	11104-28-2	U	UJ	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Aroclor-1221	75.0000	UG/KG		ORPPB	5.5	7.5	11104-28-2	U	UJ	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Aroclor-1221	75.0000	UG/KG		ORPPB	9.5	11.5	11104-28-2	U	UJ	MND16	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-16	1016-1009	Borehole	19930921	Aroclor-1221	74.0000	UG/KG		ORPPB	8.0	9.5	11104-28-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1221	73.0000	UG/KG		ORPPB	3.5	5.0	11104-28-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1221	72.0000	UG/KG		ORPPB	6.5	8.5	11104-28-2	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Aroclor-1221	68.0000	UG/KG		ORPPB	4.0	4.8	11104-28-2	U	UJ	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Aroclor-1232	40.0000	UG/KG		ORPPB	8.0	9.5	11141-16-5	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Aroclor-1232	39.0000	UG/KG		ORPPB	13.0	15.0	11141-16-5	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Aroclor-1232	39.0000	UG/KG		ORPPB	13.0	15.0	11141-16-5	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Aroclor-1232	38.0000	UG/KG		ORPPB	8.5	10.5	11141-16-5	U	U	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Aroclor-1232	38.0000	UG/KG		ORPPB	12.5	14.5	11141-16-5	U	UJ	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Aroclor-1232	37.0000	UG/KG		ORPPB	8.0	9.5	11141-16-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1232	37.0000	UG/KG		ORPPB	3.5	5.0	11141-16-5	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Aroclor-1232	37.0000	UG/KG		ORPPB	9.5	11.5	11141-16-5	U	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1232	36.0000	UG/KG		ORPPB	6.5	8.5	11141-16-5	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1232	35.0000	UG/KG		ORPPB	5.5	7.5	11141-16-5	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Aroclor-1232	34.0000	UG/KG		ORPPB	4.0	4.8	11141-16-5	U	UJ	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Aroclor-1242	40.0000	UG/KG		ORPPB	8.0	9.5	53469-21-9	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Aroclor-1242	39.0000	UG/KG		ORPPB	13.0	15.0	53469-21-9	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Aroclor-1242	39.0000	UG/KG		ORPPB	13.0	15.0	53469-21-9	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Aroclor-1242	38.0000	UG/KG		ORPPB	8.5	10.5	53469-21-9	U	U	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Aroclor-1242	38.0000	UG/KG		ORPPB	12.5	14.5	53469-21-9	U	UJ	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Aroclor-1242	37.0000	UG/KG		ORPPB	8.0	9.5	53469-21-9	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1242	37.0000	UG/KG		ORPPB	3.5	5.0	53469-21-9	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Aroclor-1242	37.0000	UG/KG		ORPPB	9.5	11.5	53469-21-9	U	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1242	36.0000	UG/KG		ORPPB	6.5	8.5	53469-21-9	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1242	35.0000	UG/KG		ORPPB	5.5	7.5	53469-21-9	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Aroclor-1242	34.0000	UG/KG		ORPPB	4.0	4.8	53469-21-9	U	UJ	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Aroclor-1248	40.0000	UG/KG		ORPPB	8.0	9.5	12672-29-6	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Aroclor-1248	39.0000	UG/KG		ORPPB	13.0	15.0	12672-29-6	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Aroclor-1248	39.0000	UG/KG		ORPPB	13.0	15.0	12672-29-6	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Aroclor-1248	38.0000	UG/KG		ORPPB	8.5	10.5	12672-29-6	U	U	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Aroclor-1248	38.0000	UG/KG		ORPPB	12.5	14.5	12672-29-6	U	UJ	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Aroclor-1248	37.0000	UG/KG		ORPPB	8.0	9.5	12672-29-6	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1248	37.0000	UG/KG		ORPPB	3.5	5.0	12672-29-6	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Aroclor-1248	37.0000	UG/KG		ORPPB	9.5	11.5	12672-29-6	U	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1248	36.0000	UG/KG		ORPPB	6.5	8.5	12672-29-6	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1248	35.0000	UG/KG		ORPPB	5.5	7.5	12672-29-6	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Aroclor-1248	34.0000	UG/KG		ORPPB	4.0	4.8	12672-29-6	U	UJ	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Aroclor-1254	40.0000	UG/KG		ORPPB	8.0	9.5	11097-69-1	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Aroclor-1254	39.0000	UG/KG		ORPPB	13.0	15.0	11097-69-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Aroclor-1254	39.0000	UG/KG		ORPPB	13.0	15.0	11097-69-1	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Aroclor-1254	38.0000	UG/KG		ORPPB	8.5	10.5	11097-69-1	U	U	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Aroclor-1254	38.0000	UG/KG		ORPPB	12.5	14.5	11097-69-1	U	UJ	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Aroclor-1254	37.0000	UG/KG		ORPPB	8.0	9.5	11097-69-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1254	37.0000	UG/KG		ORPPB	3.5	5.0	11097-69-1	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Aroclor-1254	37.0000	UG/KG		ORPPB	9.5	11.5	11097-69-1	U	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1254	36.0000	UG/KG		ORPPB	6.5	8.5	11097-69-1	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1254	35.0000	UG/KG		ORPPB	5.5	7.5	11097-69-1	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Aroclor-1254	34.0000	UG/KG		ORPPB	4.0	4.8	11097-69-1	U	UJ	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Aroclor-1260	40.0000	UG/KG		ORPPB	8.0	9.5	11096-82-5	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Aroclor-1260	39.0000	UG/KG		ORPPB	13.0	15.0	11096-82-5	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Aroclor-1260	39.0000	UG/KG		ORPPB	13.0	15.0	11096-82-5	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Aroclor-1260	38.0000	UG/KG		ORPPB	8.5	10.5	11096-82-5	U	U	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Aroclor-1260	38.0000	UG/KG		ORPPB	12.5	14.5	11096-82-5	U	UJ	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Aroclor-1260	37.0000	UG/KG		ORPPB	8.0	9.5	11096-82-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1260	37.0000	UG/KG		ORPPB	3.5	5.0	11096-82-5	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Aroclor-1260	37.0000	UG/KG		ORPPB	9.5	11.5	11096-82-5	U	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1260	36.0000	UG/KG		ORPPB	6.5	8.5	11096-82-5	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1260	35.0000	UG/KG		ORPPB	5.5	7.5	11096-82-5	U	UJ	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-29	1029-0004	Borehole	19930907	Aroclor-1260	34.0000	UG/KG		ORPPB	4.0	4.8	11096-82-5	U	UJ	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Arsenic	5.3000	MG/KG	2.5000	INORG	10.0	15.0	7440-38-2			WDSOIL02	Soil	Geoprobe (DPT)	
A-9	1009-0006	Borehole	19930817	Arsenic	4.7000	MG/KG		INORG	5.5	7.5	7440-38-2			MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Arsenic	4.0000	MG/KG		INORG	12.5	14.5	7440-38-2			MND16	Soil	Unknown	
A-2	1002-0015	Borehole	19930810	Arsenic	4.0000	MG/KG		INORG	13.0	15.0	7440-38-2		J	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Arsenic	3.6000	MG/KG		INORG	9.5	11.5	7440-38-2			MND16	Soil	Unknown	
A-10	1010-0009	Borehole	19930819	Arsenic	3.4000	MG/KG		INORG	8.5	10.5	7440-38-2			MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Arsenic	3.1000	MG/KG		INORG	6.5	8.5	7440-38-2		J	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Arsenic	3.0000	MG/KG		INORG	3.5	5.0	7440-38-2			MND16	Soil	Unknown	
A-2	1002-1015	Borehole	19930810	Arsenic	2.8000	MG/KG		INORG	13.0	15.0	7440-38-2		J	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Arsenic	2.4000	MG/KG		INORG	8.0	9.5	7440-38-2		J	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Arsenic	1.5000	MG/KG		INORG	8.0	9.5	7440-38-2	B	J	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Arsenic	1.2000	MG/KG		INORG	4.0	4.8	7440-38-2	B	J	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Barium	85.9000	MG/KG		INORG	6.5	8.5	7440-39-3	B		MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Barium	78.1000	MG/KG		INORG	8.0	9.5	7440-39-3	B		MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Barium	64.5000	MG/KG		INORG	8.0	9.5	7440-39-3	B		MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Barium	60.4000	MG/KG		INORG	8.5	10.5	7440-39-3	B		MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Barium	52.6000	MG/KG		INORG	3.5	5.0	7440-39-3	B		MND16	Soil	Unknown	
A-2	1002-0015	Borehole	19930810	Barium	46.6000	MG/KG		INORG	13.0	15.0	7440-39-3	B	J	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Barium	37.7000	MG/KG		INORG	4.0	4.8	7440-39-3	B		MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Barium	29.8000	MG/KG	49.3000	INORG	10.0	15.0	7440-39-3	B		WDSOIL02	Soil	Geoprobe (DPT)	
A-2	1002-1015	Borehole	19930810	Barium	28.9000	MG/KG		INORG	13.0	15.0	7440-39-3	B	J	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Barium	28.0000	MG/KG		INORG	5.5	7.5	7440-39-3	B		MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Barium	25.0000	MG/KG		INORG	12.5	14.5	7440-39-3	B	J	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Barium	23.3000	MG/KG		INORG	9.5	11.5	7440-39-3	B	J	MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Benzene	12.0000	UG/KG		ORVOA	8.0	9.5	71-43-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Benzene	12.0000	UG/KG		ORVOA	13.0	15.0	71-43-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Benzene	12.0000	UG/KG		ORVOA	13.0	15.0	71-43-2	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Benzene	11.0000	UG/KG		ORVOA	8.0	9.5	71-43-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Benzene	11.0000	UG/KG		ORVOA	3.5	5.0	71-43-2	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Benzene	11.0000	UG/KG		ORVOA	12.5	14.5	71-43-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Benzene	11.0000	UG/KG		ORVOA	9.5	11.5	71-43-2	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Benzene	10.0000	UG/KG		ORVOA	4.0	4.8	71-43-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Benzene	10.0000	UG/KG		ORVOA	5.5	7.5	71-43-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Benzene	9.0000	UG/KG		ORVOA	8.5	10.5	71-43-2	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Benzene	9.0000	UG/KG		ORVOA	6.5	8.5	71-43-2	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Benzene	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	71-43-2	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Benzo(a)anthracene	790.0000	UG/KG		ORSVO	8.0	9.5	56-55-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Benzo(a)anthracene	780.0000	UG/KG		ORSVO	13.0	15.0	56-55-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Benzo(a)anthracene	770.0000	UG/KG		ORSVO	13.0	15.0	56-55-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Benzo(a)anthracene	750.0000	UG/KG		ORSVO	8.5	10.5	56-55-3	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Benzo(a)anthracene	750.0000	UG/KG		ORSVO	12.5	14.5	56-55-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Benzo(a)anthracene	740.0000	UG/KG		ORSVO	9.5	11.5	56-55-3	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Benzo(a)anthracene	730.0000	UG/KG		ORSVO	8.0	9.5	56-55-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Benzo(a)anthracene	730.0000	UG/KG		ORSVO	3.5	5.0	56-55-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Benzo(a)anthracene	720.0000	UG/KG		ORSVO	6.5	8.5	56-55-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Benzo(a)anthracene	690.0000	UG/KG		ORSVO	5.5	7.5	56-55-3	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Benzo(a)anthracene	670.0000	UG/KG		ORSVO	4.0	4.8	56-55-3	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Benzo(a)pyrene	790.0000	UG/KG		ORSVO	8.0	9.5	50-32-8	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Benzo(a)pyrene	780.0000	UG/KG		ORSVO	13.0	15.0	50-32-8	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Benzo(a)pyrene	770.0000	UG/KG		ORSVO	13.0	15.0	50-32-8	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Benzo(a)pyrene	750.0000	UG/KG		ORSVO	8.5	10.5	50-32-8	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Benzo(a)pyrene	750.0000	UG/KG		ORSVO	12.5	14.5	50-32-8	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Benzo(a)pyrene	740.0000	UG/KG		ORSVO	9.5	11.5	50-32-8	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Benzo(a)pyrene	730.0000	UG/KG		ORSVO	8.0	9.5	50-32-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Benzo(a)pyrene	730.0000	UG/KG		ORSVO	3.5	5.0	50-32-8	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Benzo(a)pyrene	720.0000	UG/KG		ORSVO	6.5	8.5	50-32-8	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Benzo(a)pyrene	690.0000	UG/KG		ORSVO	5.5	7.5	50-32-8	U	U	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-29	1029-0004	Borehole	19930907	Benzo(a)pyrene	670.0000	UG/KG		ORSVO	4.0	4.8	50-32-8	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Benzo(b)fluoranthene	790.0000	UG/KG		ORSVO	8.0	9.5	205-99-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Benzo(b)fluoranthene	780.0000	UG/KG		ORSVO	13.0	15.0	205-99-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Benzo(b)fluoranthene	770.0000	UG/KG		ORSVO	13.0	15.0	205-99-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Benzo(b)fluoranthene	750.0000	UG/KG		ORSVO	8.5	10.5	205-99-2	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Benzo(b)fluoranthene	750.0000	UG/KG		ORSVO	12.5	14.5	205-99-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Benzo(b)fluoranthene	740.0000	UG/KG		ORSVO	9.5	11.5	205-99-2	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Benzo(b)fluoranthene	730.0000	UG/KG		ORSVO	8.0	9.5	205-99-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Benzo(b)fluoranthene	730.0000	UG/KG		ORSVO	3.5	5.0	205-99-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Benzo(b)fluoranthene	720.0000	UG/KG		ORSVO	6.5	8.5	205-99-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Benzo(b)fluoranthene	690.0000	UG/KG		ORSVO	5.5	7.5	205-99-2	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Benzo(b)fluoranthene	670.0000	UG/KG		ORSVO	4.0	4.8	205-99-2	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Benzo(g,h,i)perylene	790.0000	UG/KG		ORSVO	8.0	9.5	191-24-2	U	UJ	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Benzo(g,h,i)perylene	780.0000	UG/KG		ORSVO	13.0	15.0	191-24-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Benzo(g,h,i)perylene	770.0000	UG/KG		ORSVO	13.0	15.0	191-24-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Benzo(g,h,i)perylene	750.0000	UG/KG		ORSVO	8.5	10.5	191-24-2	U	UJ	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Benzo(g,h,i)perylene	750.0000	UG/KG		ORSVO	12.5	14.5	191-24-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Benzo(g,h,i)perylene	740.0000	UG/KG		ORSVO	9.5	11.5	191-24-2	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Benzo(g,h,i)perylene	730.0000	UG/KG		ORSVO	8.0	9.5	191-24-2	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Benzo(g,h,i)perylene	730.0000	UG/KG		ORSVO	3.5	5.0	191-24-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Benzo(g,h,i)perylene	720.0000	UG/KG		ORSVO	6.5	8.5	191-24-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Benzo(g,h,i)perylene	690.0000	UG/KG		ORSVO	5.5	7.5	191-24-2	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Benzo(g,h,i)perylene	670.0000	UG/KG		ORSVO	4.0	4.8	191-24-2	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Benzo(k)fluoranthene	790.0000	UG/KG		ORSVO	8.0	9.5	207-08-9	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Benzo(k)fluoranthene	780.0000	UG/KG		ORSVO	13.0	15.0	207-08-9	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Benzo(k)fluoranthene	770.0000	UG/KG		ORSVO	13.0	15.0	207-08-9	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Benzo(k)fluoranthene	750.0000	UG/KG		ORSVO	8.5	10.5	207-08-9	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Benzo(k)fluoranthene	750.0000	UG/KG		ORSVO	12.5	14.5	207-08-9	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Benzo(k)fluoranthene	740.0000	UG/KG		ORSVO	9.5	11.5	207-08-9	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Benzo(k)fluoranthene	730.0000	UG/KG		ORSVO	8.0	9.5	207-08-9	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Benzo(k)fluoranthene	730.0000	UG/KG		ORSVO	3.5	5.0	207-08-9	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Benzo(k)fluoranthene	720.0000	UG/KG		ORSVO	6.5	8.5	207-08-9	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Benzo(k)fluoranthene	690.0000	UG/KG		ORSVO	5.5	7.5	207-08-9	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Benzo(k)fluoranthene	670.0000	UG/KG		ORSVO	4.0	4.8	207-08-9	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Beryllium	1.2000	MG/KG		INORG	8.0	9.5	7440-41-7	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Beryllium	1.1000	MG/KG		INORG	8.0	9.5	7440-41-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Beryllium	1.1000	MG/KG		INORG	8.5	10.5	7440-41-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Beryllium	1.1000	MG/KG		INORG	5.5	7.5	7440-41-7	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Beryllium	1.0000	MG/KG		INORG	4.0	4.8	7440-41-7	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Beryllium	1.0000	MG/KG		INORG	6.5	8.5	7440-41-7	B		MND16	Soil	Split spoon	1
A-2	1002-0015	Borehole	19930810	Beryllium	0.8700	MG/KG		INORG	13.0	15.0	7440-41-7	B		MND16	Soil	Split spoon	1
A-2	1002-1015	Borehole	19930810	Beryllium	0.8700	MG/KG		INORG	13.0	15.0	7440-41-7	B		MND16	Soil	Split spoon	1
B-7	4007-0005	Borehole	19930823	Beryllium	0.7800	MG/KG		INORG	3.5	5.0	7440-41-7	B		MND16	Soil	Unknown	1
A-5	1005-0011	Borehole	19930805	Beryllium	0.7700	MG/KG		INORG	9.5	11.5	7440-41-7	B		MND16	Soil	Unknown	1
B-3	4003-0014	Borehole	19930811	Beryllium	0.6600	MG/KG		INORG	12.5	14.5	7440-41-7	B		MND16	Soil	Unknown	
B0WD013	000115	Borehole	20020308	Beryllium	0.2000	MG/KG	0.2500	INORG	10.0	15.0	7440-41-7	B		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Bis(2-chloroethoxy)methane	790.0000	UG/KG		ORSVO	8.0	9.5	111-91-1	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Bis(2-chloroethoxy)methane	780.0000	UG/KG		ORSVO	13.0	15.0	111-91-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Bis(2-chloroethoxy)methane	770.0000	UG/KG		ORSVO	13.0	15.0	111-91-1	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Bis(2-chloroethoxy)methane	750.0000	UG/KG		ORSVO	8.5	10.5	111-91-1	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Bis(2-chloroethoxy)methane	750.0000	UG/KG		ORSVO	12.5	14.5	111-91-1	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Bis(2-chloroethoxy)methane	740.0000	UG/KG		ORSVO	9.5	11.5	111-91-1	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Bis(2-chloroethoxy)methane	730.0000	UG/KG		ORSVO	8.0	9.5	111-91-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Bis(2-chloroethoxy)methane	730.0000	UG/KG		ORSVO	3.5	5.0	111-91-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Bis(2-chloroethoxy)methane	720.0000	UG/KG		ORSVO	6.5	8.5	111-91-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Bis(2-chloroethoxy)methane	690.0000	UG/KG		ORSVO	5.5	7.5	111-91-1	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Bis(2-chloroethoxy)methane	670.0000	UG/KG		ORSVO	4.0	4.8	111-91-1	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Bis(2-chloroethyl)ether	790.0000	UG/KG		ORSVO	8.0	9.5	111-44-4	U	U	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-2	1002-0015	Borehole	19930810	Bis(2-chloroethyl)ether	780.0000	UG/KG		ORSVO	13.0	15.0	111-44-4	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Bis(2-chloroethyl)ether	770.0000	UG/KG		ORSVO	13.0	15.0	111-44-4	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Bis(2-chloroethyl)ether	750.0000	UG/KG		ORSVO	8.5	10.5	111-44-4	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Bis(2-chloroethyl)ether	750.0000	UG/KG		ORSVO	12.5	14.5	111-44-4	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Bis(2-chloroethyl)ether	740.0000	UG/KG		ORSVO	9.5	11.5	111-44-4	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Bis(2-chloroethyl)ether	730.0000	UG/KG		ORSVO	8.0	9.5	111-44-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Bis(2-chloroethyl)ether	730.0000	UG/KG		ORSVO	3.5	5.0	111-44-4	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Bis(2-chloroethyl)ether	720.0000	UG/KG		ORSVO	6.5	8.5	111-44-4	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Bis(2-chloroethyl)ether	690.0000	UG/KG		ORSVO	5.5	7.5	111-44-4	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Bis(2-chloroethyl)ether	670.0000	UG/KG		ORSVO	4.0	4.8	111-44-4	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Bis(2-ethylhexyl)phthalate	790.0000	UG/KG		ORSVO	8.0	9.5	117-81-7	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Bis(2-ethylhexyl)phthalate	780.0000	UG/KG		ORSVO	13.0	15.0	117-81-7	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Bis(2-ethylhexyl)phthalate	770.0000	UG/KG		ORSVO	13.0	15.0	117-81-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Bis(2-ethylhexyl)phthalate	750.0000	UG/KG		ORSVO	8.5	10.5	117-81-7	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Bis(2-ethylhexyl)phthalate	750.0000	UG/KG		ORSVO	12.5	14.5	117-81-7	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Bis(2-ethylhexyl)phthalate	740.0000	UG/KG		ORSVO	9.5	11.5	117-81-7	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Bis(2-ethylhexyl)phthalate	730.0000	UG/KG		ORSVO	8.0	9.5	117-81-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Bis(2-ethylhexyl)phthalate	730.0000	UG/KG		ORSVO	3.5	5.0	117-81-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Bis(2-ethylhexyl)phthalate	720.0000	UG/KG		ORSVO	6.5	8.5	117-81-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Bis(2-ethylhexyl)phthalate	690.0000	UG/KG		ORSVO	5.5	7.5	117-81-7	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Bis(2-ethylhexyl)phthalate	670.0000	UG/KG		ORSVO	4.0	4.8	117-81-7	U	U	MND16	Soil	Split spoon	
B0WD013	000113	Borehole	20020308	Bismuth-207	0.0500	PCI/G	0.0500	RAD	0.0	5.0	13982-38-2	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000114	Borehole	20020308	Bismuth-207	0.0400	PCI/G	0.0400	RAD	5.0	10.0	13982-38-2	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000115	Borehole	20020308	Bismuth-207	0.0300	PCI/G	0.0300	RAD	10.0	15.0	13982-38-2	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000113	Borehole	20020308	Bismuth-210M	0.0700	PCI/G	0.0700	RAD	0.0	5.0	BI-210M	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000115	Borehole	20020308	Bismuth-210M	0.0600	PCI/G	0.0600	RAD	10.0	15.0	BI-210M	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000114	Borehole	20020308	Bismuth-210M	0.0600	PCI/G	0.0600	RAD	5.0	10.0	BI-210M	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Bromodichloromethane	12.0000	UG/KG		ORVOA	8.0	9.5	75-27-4	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Bromodichloromethane	12.0000	UG/KG		ORVOA	13.0	15.0	75-27-4	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Bromodichloromethane	12.0000	UG/KG		ORVOA	13.0	15.0	75-27-4	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Bromodichloromethane	11.0000	UG/KG		ORVOA	8.0	9.5	75-27-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Bromodichloromethane	11.0000	UG/KG		ORVOA	3.5	5.0	75-27-4	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Bromodichloromethane	11.0000	UG/KG		ORVOA	12.5	14.5	75-27-4	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Bromodichloromethane	11.0000	UG/KG		ORVOA	9.5	11.5	75-27-4	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Bromodichloromethane	10.0000	UG/KG		ORVOA	4.0	4.8	75-27-4	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Bromodichloromethane	10.0000	UG/KG		ORVOA	5.5	7.5	75-27-4	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Bromodichloromethane	9.0000	UG/KG		ORVOA	8.5	10.5	75-27-4	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Bromodichloromethane	9.0000	UG/KG		ORVOA	6.5	8.5	75-27-4	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Bromodichloromethane	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	75-27-4	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Bromoform	12.0000	UG/KG		ORVOA	8.0	9.5	75-25-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Bromoform	12.0000	UG/KG		ORVOA	13.0	15.0	75-25-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Bromoform	12.0000	UG/KG		ORVOA	13.0	15.0	75-25-2	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Bromoform	11.0000	UG/KG		ORVOA	8.0	9.5	75-25-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Bromoform	11.0000	UG/KG		ORVOA	3.5	5.0	75-25-2	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Bromoform	11.0000	UG/KG		ORVOA	12.5	14.5	75-25-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Bromoform	11.0000	UG/KG		ORVOA	9.5	11.5	75-25-2	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Bromoform	10.0000	UG/KG		ORVOA	4.0	4.8	75-25-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Bromoform	10.0000	UG/KG		ORVOA	5.5	7.5	75-25-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Bromoform	9.0000	UG/KG		ORVOA	8.5	10.5	75-25-2	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Bromoform	9.0000	UG/KG		ORVOA	6.5	8.5	75-25-2	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Bromoform	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	75-25-2	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Bromomethane	12.0000	UG/KG		ORVOA	8.0	9.5	74-83-9	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Bromomethane	12.0000	UG/KG		ORVOA	13.0	15.0	74-83-9	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Bromomethane	12.0000	UG/KG		ORVOA	13.0	15.0	74-83-9	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Bromomethane	11.0000	UG/KG		ORVOA	8.0	9.5	74-83-9	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Bromomethane	11.0000	UG/KG		ORVOA	3.5	5.0	74-83-9	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Bromomethane	11.0000	UG/KG		ORVOA	12.5	14.5	74-83-9	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Bromomethane	11.0000	UG/KG		ORVOA	9.5	11.5	74-83-9	U	U	MND16	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-29	1029-0004	Borehole	19930907	Bromomethane	10.0000	UG/KG		ORVOA	4.0	4.8	74-83-9	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Bromomethane	10.0000	UG/KG		ORVOA	5.5	7.5	74-83-9	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Bromomethane	9.0000	UG/KG		ORVOA	8.5	10.5	74-83-9	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Bromomethane	9.0000	UG/KG		ORVOA	6.5	8.5	74-83-9	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Bromomethane	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	74-83-9	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Butyl Benzyl Phthalate	790.0000	UG/KG		ORSVO	8.0	9.5	85-68-7	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Butyl Benzyl Phthalate	780.0000	UG/KG		ORSVO	13.0	15.0	85-68-7	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Butyl Benzyl Phthalate	770.0000	UG/KG		ORSVO	13.0	15.0	85-68-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Butyl Benzyl Phthalate	750.0000	UG/KG		ORSVO	8.5	10.5	85-68-7	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Butyl Benzyl Phthalate	750.0000	UG/KG		ORSVO	12.5	14.5	85-68-7	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Butyl Benzyl Phthalate	740.0000	UG/KG		ORSVO	9.5	11.5	85-68-7	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Butyl Benzyl Phthalate	730.0000	UG/KG		ORSVO	8.0	9.5	85-68-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Butyl Benzyl Phthalate	730.0000	UG/KG		ORSVO	3.5	5.0	85-68-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Butyl Benzyl Phthalate	720.0000	UG/KG		ORSVO	6.5	8.5	85-68-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Butyl Benzyl Phthalate	690.0000	UG/KG		ORSVO	5.5	7.5	85-68-7	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Butyl Benzyl Phthalate	670.0000	UG/KG		ORSVO	4.0	4.8	85-68-7	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Cadmium	6.0000	MG/KG		INORG	8.0	9.5	7440-43-9	U	UJ	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Cadmium	5.7000	MG/KG		INORG	8.5	10.5	7440-43-9	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Cadmium	5.6000	MG/KG		INORG	8.0	9.5	7440-43-9	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Cadmium	5.3000	MG/KG		INORG	5.5	7.5	7440-43-9	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Cadmium	5.1000	MG/KG		INORG	4.0	4.8	7440-43-9	U	UJ	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Cadmium	2.3000	MG/KG		INORG	12.5	14.5	7440-43-9	U	U	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Cadmium	2.2000	MG/KG		INORG	3.5	5.0	7440-43-9	U	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Cadmium	2.2000	MG/KG		INORG	6.5	8.5	7440-43-9	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Cadmium	1.2000	MG/KG	1.2000	INORG	10.0	15.0	7440-43-9	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-2	1002-0015	Borehole	19930810	Cadmium	1.2000	MG/KG		INORG	13.0	15.0	7440-43-9	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Cadmium	1.2000	MG/KG		INORG	13.0	15.0	7440-43-9	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Cadmium	1.1000	MG/KG		INORG	9.5	11.5	7440-43-9	U	U	MND16	Soil	Unknown	
A-10	1010-0009	Borehole	19930819	Calcium	268000.0000	MG/KG		INORG	8.5	10.5	7440-70-2			MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Calcium	258000.0000	MG/KG		INORG	8.0	9.5	7440-70-2			MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Calcium	256000.0000	MG/KG		INORG	4.0	4.8	7440-70-2			MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Calcium	246000.0000	MG/KG		INORG	8.0	9.5	7440-70-2			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Calcium	244000.0000	MG/KG		INORG	5.5	7.5	7440-70-2		J	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Calcium	222000.0000	MG/KG		INORG	3.5	5.0	7440-70-2			MND16	Soil	Unknown	
B0WD013	000115	Borehole	20020308	Calcium	179000.0000	MG/KG	6160.0000	INORG	10.0	15.0	7440-70-2	N*		WDSOIL02	Soil	Geoprobe (DPT)	
B-3	4003-0014	Borehole	19930811	Calcium	167000.0000	MG/KG		INORG	12.5	14.5	7440-70-2			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Calcium	146000.0000	MG/KG		INORG	6.5	8.5	7440-70-2			MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Calcium	97900.0000	MG/KG		INORG	13.0	15.0	7440-70-2			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Calcium	95500.0000	MG/KG		INORG	9.5	11.5	7440-70-2			MND16	Soil	Unknown	
A-2	1002-1015	Borehole	19930810	Calcium	73500.0000	MG/KG		INORG	13.0	15.0	7440-70-2			MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Carbazole	790.0000	UG/KG		ORSVO	8.0	9.5	86-74-8	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Carbazole	780.0000	UG/KG		ORSVO	13.0	15.0	86-74-8	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Carbazole	770.0000	UG/KG		ORSVO	13.0	15.0	86-74-8	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Carbazole	750.0000	UG/KG		ORSVO	8.5	10.5	86-74-8	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Carbazole	750.0000	UG/KG		ORSVO	12.5	14.5	86-74-8	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Carbazole	740.0000	UG/KG		ORSVO	9.5	11.5	86-74-8	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Carbazole	730.0000	UG/KG		ORSVO	8.0	9.5	86-74-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Carbazole	730.0000	UG/KG		ORSVO	3.5	5.0	86-74-8	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Carbazole	720.0000	UG/KG		ORSVO	6.5	8.5	86-74-8	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Carbazole	690.0000	UG/KG		ORSVO	5.5	7.5	86-74-8	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Carbazole	670.0000	UG/KG		ORSVO	4.0	4.8	86-74-8	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Carbon Disulfide	12.0000	UG/KG		ORVOA	8.0	9.5	75-15-0	U	UJ	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Carbon Disulfide	12.0000	UG/KG		ORVOA	13.0	15.0	75-15-0	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Carbon Disulfide	12.0000	UG/KG		ORVOA	13.0	15.0	75-15-0	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Carbon Disulfide	11.0000	UG/KG		ORVOA	8.0	9.5	75-15-0	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Carbon Disulfide	11.0000	UG/KG		ORVOA	3.5	5.0	75-15-0	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Carbon Disulfide	11.0000	UG/KG		ORVOA	12.5	14.5	75-15-0	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Carbon Disulfide	11.0000	UG/KG		ORVOA	9.5	11.5	75-15-0	U	U	MND16	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-29	1029-0004	Borehole	19930907	Carbon Disulfide	10.0000	UG/KG		ORVOA	4.0	4.8	75-15-0	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Carbon Disulfide	10.0000	UG/KG		ORVOA	5.5	7.5	75-15-0	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Carbon Disulfide	9.0000	UG/KG		ORVOA	8.5	10.5	75-15-0	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Carbon Disulfide	9.0000	UG/KG		ORVOA	6.5	8.5	75-15-0	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Carbon Disulfide	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	75-15-0	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Carbon Tetrachloride	12.0000	UG/KG		ORVOA	8.0	9.5	56-23-5	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Carbon Tetrachloride	12.0000	UG/KG		ORVOA	13.0	15.0	56-23-5	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Carbon Tetrachloride	12.0000	UG/KG		ORVOA	13.0	15.0	56-23-5	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Carbon Tetrachloride	11.0000	UG/KG		ORVOA	8.0	9.5	56-23-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Carbon Tetrachloride	11.0000	UG/KG		ORVOA	3.5	5.0	56-23-5	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Carbon Tetrachloride	11.0000	UG/KG		ORVOA	12.5	14.5	56-23-5	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Carbon Tetrachloride	11.0000	UG/KG		ORVOA	9.5	11.5	56-23-5	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Carbon Tetrachloride	10.0000	UG/KG		ORVOA	4.0	4.8	56-23-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Carbon Tetrachloride	10.0000	UG/KG		ORVOA	5.5	7.5	56-23-5	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Carbon Tetrachloride	9.0000	UG/KG		ORVOA	8.5	10.5	56-23-5	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Carbon Tetrachloride	9.0000	UG/KG		ORVOA	6.5	8.5	56-23-5	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Carbon Tetrachloride	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	56-23-5	U		WDSOIL02	Soil	Geoprobe (DPT)	
B-3	4003-0014	Borehole	19930811	Cesium-137	0.2400	PCI/G	0.2400	RAD	12.5	14.5	10045-97-3	U		MND16	Soil	Unknown	
B00B011	B00B011	Surface locati	20000918	Cesium-137	0.2200	PCI/G	0.0100	RAD	0.0	0.0	10045-97-3			B BLDG C	Soil	Unknown	
B-7	4007-1007	Borehole	19930823	Cesium-137	0.2000	PCI/G	0.2000	RAD	3.5	5.0	10045-97-3	U		MND16	Soil	Unknown	
B00B010	B00B010	Surface locati	20000918	Cesium-137	0.1800	PCI/G	0.0100	RAD	0.0	0.0	10045-97-3			B BLDG C	Soil	Unknown	
B00B012	B00B012	Surface locati	20000918	Cesium-137	0.1600	PCI/G	0.0100	RAD	0.0	0.0	10045-97-3			B BLDG C	Soil	Unknown	
B00B014	B00B014	Surface locati	20000920	Cesium-137	0.1300	PCI/G	0.0100	RAD	0.0	0.0	10045-97-3			B BLDG C	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Cesium-137	0.1200	PCI/G	0.1200	RAD	3.5	5.0	10045-97-3	U		MND16	Soil	Unknown	
B00B013	B00B013	Surface locati	20000918	Cesium-137	0.0700	PCI/G	0.0100	RAD	0.0	0.0	10045-97-3			B BLDG C	Soil	Unknown	
B0WD013	000113	Borehole	20020308	Cesium-137	0.0600	PCI/G	0.0600	RAD	0.0	5.0	10045-97-3	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000114	Borehole	20020308	Cesium-137	0.0500	PCI/G	0.0500	RAD	5.0	10.0	10045-97-3	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000115	Borehole	20020308	Cesium-137	0.0400	PCI/G	0.0400	RAD	10.0	15.0	10045-97-3	U		WDSOIL02	Soil	Geoprobe (DPT)	
B00B025	B00B025	Surface locati	20000921	Cesium-137	0.0100	PCI/G	0.0000	RAD	0.0	0.0	10045-97-3			B BLDG C	Soil	Unknown	
B00B024	B00B024	Surface locati	20000921	Cesium-137	0.0100	PCI/G.	0.0100	RAD	0.0	0.0	10045-97-3	U		B BLDG C	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Chlorobenzene	12.0000	UG/KG		ORVOA	8.0	9.5	108-90-7	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Chlorobenzene	12.0000	UG/KG		ORVOA	13.0	15.0	108-90-7	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Chlorobenzene	12.0000	UG/KG		ORVOA	13.0	15.0	108-90-7	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Chlorobenzene	11.0000	UG/KG		ORVOA	8.0	9.5	108-90-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Chlorobenzene	11.0000	UG/KG		ORVOA	3.5	5.0	108-90-7	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Chlorobenzene	11.0000	UG/KG		ORVOA	12.5	14.5	108-90-7	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Chlorobenzene	11.0000	UG/KG		ORVOA	9.5	11.5	108-90-7	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Chlorobenzene	10.0000	UG/KG		ORVOA	4.0	4.8	108-90-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Chlorobenzene	10.0000	UG/KG		ORVOA	5.5	7.5	108-90-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Chlorobenzene	9.0000	UG/KG		ORVOA	8.5	10.5	108-90-7	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Chlorobenzene	9.0000	UG/KG		ORVOA	6.5	8.5	108-90-7	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Chlorobenzene	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	108-90-7	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000115	Borehole	20020308	Chloroethane	12.0000	UG/KG	12.0000	ORVOA	10.0	15.0	75-00-3	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Chloroethane	12.0000	UG/KG		ORVOA	8.0	9.5	75-00-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Chloroethane	12.0000	UG/KG		ORVOA	13.0	15.0	75-00-3	U	UJ	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Chloroethane	12.0000	UG/KG		ORVOA	13.0	15.0	75-00-3	U	UJ	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Chloroethane	11.0000	UG/KG		ORVOA	8.0	9.5	75-00-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Chloroethane	11.0000	UG/KG		ORVOA	3.5	5.0	75-00-3	U	UJ	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Chloroethane	11.0000	UG/KG		ORVOA	12.5	14.5	75-00-3	U	UJ	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Chloroethane	11.0000	UG/KG		ORVOA	9.5	11.5	75-00-3	U	UJ	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Chloroethane	10.0000	UG/KG		ORVOA	4.0	4.8	75-00-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Chloroethane	10.0000	UG/KG		ORVOA	5.5	7.5	75-00-3	U	UJ	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Chloroethane	9.0000	UG/KG		ORVOA	8.5	10.5	75-00-3	U	UJ	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Chloroethane	9.0000	UG/KG		ORVOA	6.5	8.5	75-00-3	U	UJ	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Chloroform	12.0000	UG/KG		ORVOA	8.0	9.5	67-66-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Chloroform	12.0000	UG/KG		ORVOA	13.0	15.0	67-66-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Chloroform	12.0000	UG/KG		ORVOA	13.0	15.0	67-66-3	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Chloroform	11.0000	UG/KG		ORVOA	8.0	9.5	67-66-3	U	U	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
B-7	4007-0005	Borehole	19930823	Chloroform	11.0000	UG/KG		ORVOA	3.5	5.0	67-66-3	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Chloroform	11.0000	UG/KG		ORVOA	12.5	14.5	67-66-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Chloroform	11.0000	UG/KG		ORVOA	9.5	11.5	67-66-3	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Chloroform	10.0000	UG/KG		ORVOA	4.0	4.8	67-66-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Chloroform	10.0000	UG/KG		ORVOA	5.5	7.5	67-66-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Chloroform	9.0000	UG/KG		ORVOA	8.5	10.5	67-66-3	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Chloroform	9.0000	UG/KG		ORVOA	6.5	8.5	67-66-3	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Chloroform (Trichloromethane	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	67-66-3	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000115	Borehole	20020308	Chloromethane	12.0000	UG/KG	12.0000	ORVOA	10.0	15.0	74-87-3	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Chloromethane	12.0000	UG/KG		ORVOA	8.0	9.5	74-87-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Chloromethane	12.0000	UG/KG		ORVOA	13.0	15.0	74-87-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Chloromethane	12.0000	UG/KG		ORVOA	13.0	15.0	74-87-3	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Chloromethane	11.0000	UG/KG		ORVOA	8.0	9.5	74-87-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Chloromethane	11.0000	UG/KG		ORVOA	3.5	5.0	74-87-3	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Chloromethane	11.0000	UG/KG		ORVOA	12.5	14.5	74-87-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Chloromethane	11.0000	UG/KG		ORVOA	9.5	11.5	74-87-3	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Chloromethane	10.0000	UG/KG		ORVOA	4.0	4.8	74-87-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Chloromethane	10.0000	UG/KG		ORVOA	5.5	7.5	74-87-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Chloromethane	9.0000	UG/KG		ORVOA	8.5	10.5	74-87-3	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Chloromethane	9.0000	UG/KG		ORVOA	6.5	8.5	74-87-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Chromium	21.2000	MG/KG		INORG	13.0	15.0	7440-47-3		J	MND16	Soil	Split spoon	2
A-2	1002-1015	Borehole	19930810	Chromium	21.0000	MG/KG		INORG	13.0	15.0	7440-47-3		J	MND16	Soil	Split spoon	2
A-5	1005-0011	Borehole	19930805	Chromium	18.5000	MG/KG		INORG	9.5	11.5	7440-47-3		J	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Chromium	17.0000	MG/KG		INORG	8.0	9.5	7440-47-3		J	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Chromium	16.6000	MG/KG		INORG	6.5	8.5	7440-47-3			MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Chromium	15.3000	MG/KG		INORG	8.0	9.5	7440-47-3		J	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Chromium	12.9000	MG/KG		INORG	12.5	14.5	7440-47-3		J	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Chromium	12.4000	MG/KG		INORG	3.5	5.0	7440-47-3		J	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Chromium	11.9000	MG/KG		INORG	5.5	7.5	7440-47-3		J	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Chromium	11.0000	MG/KG		INORG	8.5	10.5	7440-47-3	B		MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Chromium	9.9000	MG/KG		INORG	4.0	4.8	7440-47-3	B	J	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Chromium	6.2000	MG/KG	2.5000	INORG	10.0	15.0	7440-47-3			WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Chrysene	790.0000	UG/KG		ORSVO	8.0	9.5	218-01-9	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Chrysene	780.0000	UG/KG		ORSVO	13.0	15.0	218-01-9	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Chrysene	770.0000	UG/KG		ORSVO	13.0	15.0	218-01-9	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Chrysene	750.0000	UG/KG		ORSVO	8.5	10.5	218-01-9	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Chrysene	750.0000	UG/KG		ORSVO	12.5	14.5	218-01-9	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Chrysene	740.0000	UG/KG		ORSVO	9.5	11.5	218-01-9	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Chrysene	730.0000	UG/KG		ORSVO	8.0	9.5	218-01-9	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Chrysene	730.0000	UG/KG		ORSVO	3.5	5.0	218-01-9	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Chrysene	720.0000	UG/KG		ORSVO	6.5	8.5	218-01-9	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Chrysene	690.0000	UG/KG		ORSVO	5.5	7.5	218-01-9	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Chrysene	670.0000	UG/KG		ORSVO	4.0	4.8	218-01-9	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Cobalt	15.4000	MG/KG		INORG	13.0	15.0	7440-48-4			MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Cobalt	14.1000	MG/KG		INORG	13.0	15.0	7440-48-4			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Cobalt	12.2000	MG/KG		INORG	9.5	11.5	7440-48-4			MND16	Soil	Unknown	
B0WD013	000115	Borehole	20020308	Cobalt	9.6000	MG/KG	12.3000	INORG	10.0	15.0	7440-48-4	B		WDSOIL02	Soil	Geoprobe (DPT)	
B-3	4003-0014	Borehole	19930811	Cobalt	9.0000	MG/KG		INORG	12.5	14.5	7440-48-4	B		MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Cobalt	8.3000	MG/KG		INORG	6.5	8.5	7440-48-4	B		MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Cobalt	6.8000	MG/KG		INORG	3.5	5.0	7440-48-4	B		MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Cobalt	6.0000	MG/KG		INORG	8.0	9.5	7440-48-4	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Cobalt	5.7000	MG/KG		INORG	8.5	10.5	7440-48-4	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Cobalt	5.6000	MG/KG		INORG	8.0	9.5	7440-48-4	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Cobalt	5.3000	MG/KG		INORG	5.5	7.5	7440-48-4	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Cobalt	5.1000	MG/KG		INORG	4.0	4.8	7440-48-4	U	U	MND16	Soil	Split spoon	
B-7	4007-1007	Borehole	19930823	Cobalt-60	0.2800	PCI/G	0.2200	RAD	3.5	5.0	10198-40-0	U		MND16	Soil	Unknown	
B-3	4003-0014	Borehole	19930811	Cobalt-60	0.1400	PCI/G	0.1700	RAD	12.5	14.5	10198-40-0	U		MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Cobalt-60	0.1300	PCI/G	0.1300	RAD	3.5	5.0	10198-40-0	U		MND16	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
B0WD013	000115	Borehole	20020308	Cobalt-60	0.0600	PCI/G	0.0600	RAD	10.0	15.0	10198-40-0	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000114	Borehole	20020308	Cobalt-60	0.0600	PCI/G	0.0600	RAD	5.0	10.0	10198-40-0	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000113	Borehole	20020308	Cobalt-60	0.0500	PCI/G	0.0500	RAD	0.0	5.0	10198-40-0	U		WDSOIL02	Soil	Geoprobe (DPT)	
B00B024	B00B024	Surface locati	20000921	Cobalt-60	0.0100	PCI/G	0.0100	RAD	0.0	0.0	10198-40-0	U		B BLDG C	Soil	Unknown	
B00B014	B00B014	Surface locati	20000920	Cobalt-60	0.0100	PCI/G	0.0100	RAD	0.0	0.0	10198-40-0	U		B BLDG C	Soil	Unknown	
B00B013	B00B013	Surface locati	20000918	Cobalt-60	0.0100	PCI/G	0.0100	RAD	0.0	0.0	10198-40-0	U		B BLDG C	Soil	Unknown	
B00B012	B00B012	Surface locati	20000918	Cobalt-60	0.0100	PCI/G	0.0100	RAD	0.0	0.0	10198-40-0	U		B BLDG C	Soil	Unknown	
B00B011	B00B011	Surface locati	20000918	Cobalt-60	0.0100	PCI/G	0.0100	RAD	0.0	0.0	10198-40-0	U		B BLDG C	Soil	Unknown	
B00B010	B00B010	Surface locati	20000918	Cobalt-60	0.0100	PCI/G	0.0100	RAD	0.0	0.0	10198-40-0	U		B BLDG C	Soil	Unknown	
B00B025	B00B025	Surface locati	20000921	Cobalt-60	0.0000	PCI/G	0.0000	RAD	0.0	0.0	10198-40-0	U		B BLDG C	Soil	Unknown	
B0WD013	000115	Borehole	20020308	Copper	70.6000	MG/KG	6.2000	INORG	10.0	15.0	7440-50-8			WDSOIL02	Soil	Geoprobe (DPT)	2
A-2	1002-0015	Borehole	19930810	Copper	26.2000	MG/KG		INORG	13.0	15.0	7440-50-8			MND16	Soil	Split spoon	2
A-2	1002-1015	Borehole	19930810	Copper	21.8000	MG/KG		INORG	13.0	15.0	7440-50-8			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Copper	17.3000	MG/KG		INORG	9.5	11.5	7440-50-8			MND16	Soil	Unknown	
B-3	4003-0014	Borehole	19930811	Copper	13.1000	MG/KG		INORG	12.5	14.5	7440-50-8			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Copper	12.6000	MG/KG		INORG	6.5	8.5	7440-50-8			MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Copper	10.1000	MG/KG		INORG	8.0	9.5	7440-50-8	B		MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Copper	8.5000	MG/KG		INORG	3.5	5.0	7440-50-8	B		MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Copper	7.6000	MG/KG		INORG	8.0	9.5	7440-50-8	B		MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Copper	7.0000	MG/KG		INORG	5.5	7.5	7440-50-8	B		MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Copper	6.4000	MG/KG		INORG	4.0	4.8	7440-50-8	B		MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Copper	5.4000	MG/KG		INORG	8.5	10.5	7440-50-8	B		MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Cyanide	6.0000	MG/KG		INORG	8.0	9.5	57-12-5	U	UJ	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Cyanide	5.6000	MG/KG		INORG	8.0	9.5	57-12-5	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Cyanide	1.0000	MG/KG		INORG	4.0	4.8	57-12-5	U	UJ	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Cyanide	0.5900	MG/KG		INORG	13.0	15.0	57-12-5	U	UJ	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Cyanide	0.5800	MG/KG		INORG	13.0	15.0	57-12-5	U	UJ	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Cyanide	0.5700	MG/KG		INORG	8.5	10.5	57-12-5	U	UJ	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Cyanide	0.5700	MG/KG		INORG	12.5	14.5	57-12-5	U	UJ	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Cyanide	0.5600	MG/KG		INORG	9.5	11.5	57-12-5	U	UJ	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Cyanide	0.5500	MG/KG		INORG	3.5	5.0	57-12-5	U	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Cyanide	0.5500	MG/KG		INORG	6.5	8.5	57-12-5	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Cyanide	0.5300	MG/KG		INORG	5.5	7.5	57-12-5	U	UJ	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Dibenz(a,h)anthracene	790.0000	UG/KG		ORSVO	8.0	9.5	53-70-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Dibenz(a,h)anthracene	780.0000	UG/KG		ORSVO	13.0	15.0	53-70-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Dibenz(a,h)anthracene	770.0000	UG/KG		ORSVO	13.0	15.0	53-70-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Dibenz(a,h)anthracene	750.0000	UG/KG		ORSVO	8.5	10.5	53-70-3	U	UJ	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Dibenz(a,h)anthracene	750.0000	UG/KG		ORSVO	12.5	14.5	53-70-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Dibenz(a,h)anthracene	740.0000	UG/KG		ORSVO	9.5	11.5	53-70-3	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Dibenz(a,h)anthracene	730.0000	UG/KG		ORSVO	8.0	9.5	53-70-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Dibenz(a,h)anthracene	730.0000	UG/KG		ORSVO	3.5	5.0	53-70-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Dibenz(a,h)anthracene	720.0000	UG/KG		ORSVO	6.5	8.5	53-70-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Dibenz(a,h)anthracene	690.0000	UG/KG		ORSVO	5.5	7.5	53-70-3	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Dibenz(a,h)anthracene	670.0000	UG/KG		ORSVO	4.0	4.8	53-70-3	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Dibenzofuran	790.0000	UG/KG		ORSVO	8.0	9.5	132-64-9	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Dibenzofuran	780.0000	UG/KG		ORSVO	13.0	15.0	132-64-9	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Dibenzofuran	770.0000	UG/KG		ORSVO	13.0	15.0	132-64-9	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Dibenzofuran	750.0000	UG/KG		ORSVO	8.5	10.5	132-64-9	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Dibenzofuran	750.0000	UG/KG		ORSVO	12.5	14.5	132-64-9	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Dibenzofuran	740.0000	UG/KG		ORSVO	9.5	11.5	132-64-9	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Dibenzofuran	730.0000	UG/KG		ORSVO	8.0	9.5	132-64-9	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Dibenzofuran	730.0000	UG/KG		ORSVO	3.5	5.0	132-64-9	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Dibenzofuran	720.0000	UG/KG		ORSVO	6.5	8.5	132-64-9	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Dibenzofuran	690.0000	UG/KG		ORSVO	5.5	7.5	132-64-9	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Dibenzofuran	670.0000	UG/KG		ORSVO	4.0	4.8	132-64-9	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Dibromochloromethane	12.0000	UG/KG		ORVOA	8.0	9.5	124-48-1	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Dibromochloromethane	12.0000	UG/KG		ORVOA	13.0	15.0	124-48-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Dibromochloromethane	12.0000	UG/KG		ORVOA	13.0	15.0	124-48-1	U	U	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-16	1016-1009	Borehole	19930921	Dibromochloromethane	11.0000	UG/KG		ORVOA	8.0	9.5	124-48-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Dibromochloromethane	11.0000	UG/KG		ORVOA	3.5	5.0	124-48-1	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Dibromochloromethane	11.0000	UG/KG		ORVOA	12.5	14.5	124-48-1	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Dibromochloromethane	11.0000	UG/KG		ORVOA	9.5	11.5	124-48-1	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Dibromochloromethane	10.0000	UG/KG		ORVOA	4.0	4.8	124-48-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Dibromochloromethane	10.0000	UG/KG		ORVOA	5.5	7.5	124-48-1	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Dibromochloromethane	9.0000	UG/KG		ORVOA	8.5	10.5	124-48-1	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Dibromochloromethane	9.0000	UG/KG		ORVOA	6.5	8.5	124-48-1	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Dibromochloromethane	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	124-48-1	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-2	1002-0015	Borehole	19930810	Dichloromethane (Methylene (	23.0000	UG/KG		ORVOA	13.0	15.0	75-09-2		J	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Dichloromethane (Methylene (	22.0000	UG/KG		ORVOA	12.5	14.5	75-09-2		J	MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Dichloromethane (Methylene (	13.0000	UG/KG		ORVOA	8.0	9.5	75-09-2	B	UJ	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Dichloromethane (Methylene (	12.0000	UG/KG		ORVOA	8.0	9.5	75-09-2	B	UJ	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Dichloromethane (Methylene (	12.0000	UG/KG		ORVOA	13.0	15.0	75-09-2	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Dichloromethane (Methylene (	11.0000	UG/KG		ORVOA	3.5	5.0	75-09-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Dichloromethane (Methylene (	11.0000	UG/KG		ORVOA	9.5	11.5	75-09-2	U	UJ	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Dichloromethane (Methylene (	10.0000	UG/KG		ORVOA	4.0	4.8	75-09-2	B	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Dichloromethane (Methylene (	10.0000	UG/KG		ORVOA	5.5	7.5	75-09-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Dichloromethane (Methylene (	9.0000	UG/KG		ORVOA	8.5	10.5	75-09-2	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Dichloromethane (Methylene (	9.0000	UG/KG		ORVOA	6.5	8.5	75-09-2	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Dichloromethane (Methylene (	1.7000	UG/KG	6.2000	ORVOA	10.0	15.0	75-09-2	J B		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Diethyl Phthalate	790.0000	UG/KG		ORSVO	8.0	9.5	84-66-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Diethyl Phthalate	780.0000	UG/KG		ORSVO	13.0	15.0	84-66-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Diethyl Phthalate	770.0000	UG/KG		ORSVO	13.0	15.0	84-66-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Diethyl Phthalate	750.0000	UG/KG		ORSVO	8.5	10.5	84-66-2	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Diethyl Phthalate	750.0000	UG/KG		ORSVO	12.5	14.5	84-66-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Diethyl Phthalate	740.0000	UG/KG		ORSVO	9.5	11.5	84-66-2	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Diethyl Phthalate	730.0000	UG/KG		ORSVO	8.0	9.5	84-66-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Diethyl Phthalate	730.0000	UG/KG		ORSVO	3.5	5.0	84-66-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Diethyl Phthalate	720.0000	UG/KG		ORSVO	6.5	8.5	84-66-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Diethyl Phthalate	690.0000	UG/KG		ORSVO	5.5	7.5	84-66-2	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Diethyl Phthalate	670.0000	UG/KG		ORSVO	4.0	4.8	84-66-2	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Dimethyl Phthalate	790.0000	UG/KG		ORSVO	8.0	9.5	131-11-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Dimethyl Phthalate	780.0000	UG/KG		ORSVO	13.0	15.0	131-11-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Dimethyl Phthalate	770.0000	UG/KG		ORSVO	13.0	15.0	131-11-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Dimethyl Phthalate	750.0000	UG/KG		ORSVO	8.5	10.5	131-11-3	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Dimethyl Phthalate	750.0000	UG/KG		ORSVO	12.5	14.5	131-11-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Dimethyl Phthalate	740.0000	UG/KG		ORSVO	9.5	11.5	131-11-3	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Dimethyl Phthalate	730.0000	UG/KG		ORSVO	8.0	9.5	131-11-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Dimethyl Phthalate	730.0000	UG/KG		ORSVO	3.5	5.0	131-11-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Dimethyl Phthalate	720.0000	UG/KG		ORSVO	6.5	8.5	131-11-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Dimethyl Phthalate	690.0000	UG/KG		ORSVO	5.5	7.5	131-11-3	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Dimethyl Phthalate	670.0000	UG/KG		ORSVO	4.0	4.8	131-11-3	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Di-n-butyl Phthalate	790.0000	UG/KG		ORSVO	8.0	9.5	84-74-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Di-n-butyl Phthalate	780.0000	UG/KG		ORSVO	13.0	15.0	84-74-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Di-n-butyl Phthalate	770.0000	UG/KG		ORSVO	13.0	15.0	84-74-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Di-n-butyl Phthalate	750.0000	UG/KG		ORSVO	8.5	10.5	84-74-2	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Di-n-butyl Phthalate	750.0000	UG/KG		ORSVO	12.5	14.5	84-74-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Di-n-butyl Phthalate	740.0000	UG/KG		ORSVO	9.5	11.5	84-74-2	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Di-n-butyl Phthalate	730.0000	UG/KG		ORSVO	8.0	9.5	84-74-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Di-n-butyl Phthalate	730.0000	UG/KG		ORSVO	3.5	5.0	84-74-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Di-n-butyl Phthalate	720.0000	UG/KG		ORSVO	6.5	8.5	84-74-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Di-n-butyl Phthalate	690.0000	UG/KG		ORSVO	5.5	7.5	84-74-2	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Di-n-butyl Phthalate	670.0000	UG/KG		ORSVO	4.0	4.8	84-74-2	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Di-n-octyl Phthalate	790.0000	UG/KG		ORSVO	8.0	9.5	117-84-0	U	UJ	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Di-n-octyl Phthalate	780.0000	UG/KG		ORSVO	13.0	15.0	117-84-0	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Di-n-octyl Phthalate	770.0000	UG/KG		ORSVO	13.0	15.0	117-84-0	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Di-n-octyl Phthalate	750.0000	UG/KG		ORSVO	8.5	10.5	117-84-0	U	UJ	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
B-3	4002-0014	Borehole	19930811	Di-n-octyl Phthalate	750.0000	UG/KG		ORSVO	12.5	14.5	117-84-0	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Di-n-octyl Phthalate	740.0000	UG/KG		ORSVO	9.5	11.5	117-84-0	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Di-n-octyl Phthalate	730.0000	UG/KG		ORSVO	8.0	9.5	117-84-0	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Di-n-octyl Phthalate	730.0000	UG/KG		ORSVO	3.5	5.0	117-84-0	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Di-n-octyl Phthalate	720.0000	UG/KG		ORSVO	6.5	8.5	117-84-0	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Di-n-octyl Phthalate	690.0000	UG/KG		ORSVO	5.5	7.5	117-84-0	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Di-n-octyl Phthalate	670.0000	UG/KG		ORSVO	4.0	4.8	117-84-0	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Ethylbenzene	12.0000	UG/KG		ORVOA	8.0	9.5	100-41-4	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Ethylbenzene	12.0000	UG/KG		ORVOA	13.0	15.0	100-41-4	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Ethylbenzene	12.0000	UG/KG		ORVOA	13.0	15.0	100-41-4	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Ethylbenzene	11.0000	UG/KG		ORVOA	8.0	9.5	100-41-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Ethylbenzene	11.0000	UG/KG		ORVOA	3.5	5.0	100-41-4	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Ethylbenzene	11.0000	UG/KG		ORVOA	12.5	14.5	100-41-4	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Ethylbenzene	11.0000	UG/KG		ORVOA	9.5	11.5	100-41-4	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Ethylbenzene	10.0000	UG/KG		ORVOA	4.0	4.8	100-41-4	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Ethylbenzene	10.0000	UG/KG		ORVOA	5.5	7.5	100-41-4	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Ethylbenzene	9.0000	UG/KG		ORVOA	8.5	10.5	100-41-4	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Ethylbenzene	9.0000	UG/KG		ORVOA	6.5	8.5	100-41-4	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Ethylbenzene	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	100-41-4	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Fluoranthene	790.0000	UG/KG		ORSVO	8.0	9.5	206-44-0	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Fluoranthene	780.0000	UG/KG		ORSVO	13.0	15.0	206-44-0	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Fluoranthene	770.0000	UG/KG		ORSVO	13.0	15.0	206-44-0	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Fluoranthene	750.0000	UG/KG		ORSVO	8.5	10.5	206-44-0	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Fluoranthene	750.0000	UG/KG		ORSVO	12.5	14.5	206-44-0	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Fluoranthene	740.0000	UG/KG		ORSVO	9.5	11.5	206-44-0	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Fluoranthene	730.0000	UG/KG		ORSVO	8.0	9.5	206-44-0	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Fluoranthene	730.0000	UG/KG		ORSVO	3.5	5.0	206-44-0	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Fluoranthene	720.0000	UG/KG		ORSVO	6.5	8.5	206-44-0	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Fluoranthene	690.0000	UG/KG		ORSVO	5.5	7.5	206-44-0	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Fluoranthene	670.0000	UG/KG		ORSVO	4.0	4.8	206-44-0	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Fluorene	790.0000	UG/KG		ORSVO	8.0	9.5	86-73-7	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Fluorene	780.0000	UG/KG		ORSVO	13.0	15.0	86-73-7	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Fluorene	770.0000	UG/KG		ORSVO	13.0	15.0	86-73-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Fluorene	750.0000	UG/KG		ORSVO	8.5	10.5	86-73-7	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Fluorene	750.0000	UG/KG		ORSVO	12.5	14.5	86-73-7	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Fluorene	740.0000	UG/KG		ORSVO	9.5	11.5	86-73-7	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Fluorene	730.0000	UG/KG		ORSVO	8.0	9.5	86-73-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Fluorene	730.0000	UG/KG		ORSVO	3.5	5.0	86-73-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Fluorene	720.0000	UG/KG		ORSVO	6.5	8.5	86-73-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Fluorene	690.0000	UG/KG		ORSVO	5.5	7.5	86-73-7	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Fluorene	670.0000	UG/KG		ORSVO	4.0	4.8	86-73-7	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Hexachlorobenzene	790.0000	UG/KG		ORSVO	8.0	9.5	118-74-1	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Hexachlorobenzene	780.0000	UG/KG		ORSVO	13.0	15.0	118-74-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Hexachlorobenzene	770.0000	UG/KG		ORSVO	13.0	15.0	118-74-1	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Hexachlorobenzene	750.0000	UG/KG		ORSVO	8.5	10.5	118-74-1	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Hexachlorobenzene	750.0000	UG/KG		ORSVO	12.5	14.5	118-74-1	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Hexachlorobenzene	740.0000	UG/KG		ORSVO	9.5	11.5	118-74-1	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Hexachlorobenzene	730.0000	UG/KG		ORSVO	8.0	9.5	118-74-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Hexachlorobenzene	730.0000	UG/KG		ORSVO	3.5	5.0	118-74-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Hexachlorobenzene	720.0000	UG/KG		ORSVO	6.5	8.5	118-74-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Hexachlorobenzene	690.0000	UG/KG		ORSVO	5.5	7.5	118-74-1	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Hexachlorobenzene	670.0000	UG/KG		ORSVO	4.0	4.8	118-74-1	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Hexachlorobutadiene	790.0000	UG/KG		ORSVO	8.0	9.5	87-68-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Hexachlorobutadiene	780.0000	UG/KG		ORSVO	13.0	15.0	87-68-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Hexachlorobutadiene	770.0000	UG/KG		ORSVO	13.0	15.0	87-68-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Hexachlorobutadiene	750.0000	UG/KG		ORSVO	8.5	10.5	87-68-3	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Hexachlorobutadiene	750.0000	UG/KG		ORSVO	12.5	14.5	87-68-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Hexachlorobutadiene	740.0000	UG/KG		ORSVO	9.5	11.5	87-68-3	U	U	MND16	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-16	1016-1009	Borehole	19930921	Hexachlorobutadiene	730.0000	UG/KG		ORSVO	8.0	9.5	87-68-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Hexachlorobutadiene	730.0000	UG/KG		ORSVO	3.5	5.0	87-68-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Hexachlorobutadiene	720.0000	UG/KG		ORSVO	6.5	8.5	87-68-3	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Hexachlorobutadiene	690.0000	UG/KG		ORSVO	5.5	7.5	87-68-3	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Hexachlorobutadiene	670.0000	UG/KG		ORSVO	4.0	4.8	87-68-3	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Hexachlorocyclopentadiene	790.0000	UG/KG		ORSVO	8.0	9.5	77-47-4	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Hexachlorocyclopentadiene	780.0000	UG/KG		ORSVO	13.0	15.0	77-47-4	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Hexachlorocyclopentadiene	770.0000	UG/KG		ORSVO	13.0	15.0	77-47-4	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Hexachlorocyclopentadiene	750.0000	UG/KG		ORSVO	8.5	10.5	77-47-4	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Hexachlorocyclopentadiene	750.0000	UG/KG		ORSVO	12.5	14.5	77-47-4	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Hexachlorocyclopentadiene	740.0000	UG/KG		ORSVO	9.5	11.5	77-47-4	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Hexachlorocyclopentadiene	730.0000	UG/KG		ORSVO	8.0	9.5	77-47-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Hexachlorocyclopentadiene	730.0000	UG/KG		ORSVO	3.5	5.0	77-47-4	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Hexachlorocyclopentadiene	720.0000	UG/KG		ORSVO	6.5	8.5	77-47-4	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Hexachlorocyclopentadiene	690.0000	UG/KG		ORSVO	5.5	7.5	77-47-4	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Hexachlorocyclopentadiene	670.0000	UG/KG		ORSVO	4.0	4.8	77-47-4	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Hexachloroethane	790.0000	UG/KG		ORSVO	8.0	9.5	67-72-1	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Hexachloroethane	780.0000	UG/KG		ORSVO	13.0	15.0	67-72-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Hexachloroethane	770.0000	UG/KG		ORSVO	13.0	15.0	67-72-1	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Hexachloroethane	750.0000	UG/KG		ORSVO	8.5	10.5	67-72-1	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Hexachloroethane	750.0000	UG/KG		ORSVO	12.5	14.5	67-72-1	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Hexachloroethane	740.0000	UG/KG		ORSVO	9.5	11.5	67-72-1	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Hexachloroethane	730.0000	UG/KG		ORSVO	8.0	9.5	67-72-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Hexachloroethane	730.0000	UG/KG		ORSVO	3.5	5.0	67-72-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Hexachloroethane	720.0000	UG/KG		ORSVO	6.5	8.5	67-72-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Hexachloroethane	690.0000	UG/KG		ORSVO	5.5	7.5	67-72-1	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Hexachloroethane	670.0000	UG/KG		ORSVO	4.0	4.8	67-72-1	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Indeno(1,2,3-cd)pyrene	790.0000	UG/KG		ORSVO	8.0	9.5	193-39-5	U	UJ	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Indeno(1,2,3-cd)pyrene	780.0000	UG/KG		ORSVO	13.0	15.0	193-39-5	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Indeno(1,2,3-cd)pyrene	770.0000	UG/KG		ORSVO	13.0	15.0	193-39-5	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Indeno(1,2,3-cd)pyrene	750.0000	UG/KG		ORSVO	8.5	10.5	193-39-5	U	UJ	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Indeno(1,2,3-cd)pyrene	750.0000	UG/KG		ORSVO	12.5	14.5	193-39-5	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Indeno(1,2,3-cd)pyrene	740.0000	UG/KG		ORSVO	9.5	11.5	193-39-5	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Indeno(1,2,3-cd)pyrene	730.0000	UG/KG		ORSVO	8.0	9.5	193-39-5	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Indeno(1,2,3-cd)pyrene	730.0000	UG/KG		ORSVO	3.5	5.0	193-39-5	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Indeno(1,2,3-cd)pyrene	720.0000	UG/KG		ORSVO	6.5	8.5	193-39-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Indeno(1,2,3-cd)pyrene	690.0000	UG/KG		ORSVO	5.5	7.5	193-39-5	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Indeno(1,2,3-cd)pyrene	670.0000	UG/KG		ORSVO	4.0	4.8	193-39-5	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Iron	109000.0000	MG/KG	123.0000	INORG	10.0	15.0	7439-89-6	N		WDSOIL02	Soil	Geoprobe (DPT)	2
A-2	1002-0015	Borehole	19930810	Iron	34000.0000	MG/KG		INORG	13.0	15.0	7439-89-6			MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Iron	30800.0000	MG/KG		INORG	13.0	15.0	7439-89-6			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Iron	24700.0000	MG/KG		INORG	9.5	11.5	7439-89-6			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Iron	20400.0000	MG/KG		INORG	6.5	8.5	7439-89-6			MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Iron	18700.0000	MG/KG		INORG	8.0	9.5	7439-89-6			MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Iron	18100.0000	MG/KG		INORG	8.0	9.5	7439-89-6			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Iron	17900.0000	MG/KG		INORG	3.5	5.0	7439-89-6			MND16	Soil	Unknown	
B-3	4003-0014	Borehole	19930811	Iron	17300.0000	MG/KG		INORG	12.5	14.5	7439-89-6			MND16	Soil	Unknown	
A-10	1010-0009	Borehole	19930819	Iron	14000.0000	MG/KG		INORG	8.5	10.5	7439-89-6			MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Iron	12500.0000	MG/KG		INORG	4.0	4.8	7439-89-6			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Iron	12100.0000	MG/KG		INORG	5.5	7.5	7439-89-6		J	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Isophorone	790.0000	UG/KG		ORSVO	8.0	9.5	78-59-1	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Isophorone	780.0000	UG/KG		ORSVO	13.0	15.0	78-59-1	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Isophorone	770.0000	UG/KG		ORSVO	13.0	15.0	78-59-1	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Isophorone	750.0000	UG/KG		ORSVO	8.5	10.5	78-59-1	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Isophorone	750.0000	UG/KG		ORSVO	12.5	14.5	78-59-1	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Isophorone	740.0000	UG/KG		ORSVO	9.5	11.5	78-59-1	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Isophorone	730.0000	UG/KG		ORSVO	8.0	9.5	78-59-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Isophorone	730.0000	UG/KG		ORSVO	3.5	5.0	78-59-1	U	U	MND16	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-8	1008-0007	Borehole	19930817	Isophorone	720.0000	UG/KG		ORSVO	6.5	8.5	78-59-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Isophorone	690.0000	UG/KG		ORSVO	5.5	7.5	78-59-1	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Isophorone	670.0000	UG/KG		ORSVO	4.0	4.8	78-59-1	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Lead	17.5000	MG/KG	0.7400	INORG	10.0	15.0	7439-92-1	*		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-1009	Borehole	19930921	Lead	9.8000	MG/KG		INORG	8.0	9.5	7439-92-1		J	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Lead	9.8000	MG/KG		INORG	5.5	7.5	7439-92-1			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Lead	8.7000	MG/KG		INORG	3.5	5.0	7439-92-1		J	MND16	Soil	Unknown	
A-2	1002-0015	Borehole	19930810	Lead	8.6000	MG/KG		INORG	13.0	15.0	7439-92-1		J	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Lead	8.2000	MG/KG		INORG	8.0	9.5	7439-92-1		J	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Lead	7.7000	MG/KG		INORG	8.5	10.5	7439-92-1			MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Lead	6.5000	MG/KG		INORG	4.0	4.8	7439-92-1			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Lead	6.5000	MG/KG		INORG	9.5	11.5	7439-92-1			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Lead	6.4000	MG/KG		INORG	6.5	8.5	7439-92-1		J	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Lead	6.2000	MG/KG		INORG	12.5	14.5	7439-92-1			MND16	Soil	Unknown	
A-2	1002-1015	Borehole	19930810	Lead	4.4000	MG/KG		INORG	13.0	15.0	7439-92-1		J	MND16	Soil	Split spoon	
B00B010	B00B010	Surface locati	20000918	Lead-210	4.6400	PCI/G	0.2400	RAD	0.0	0.0	14255-04-0			B BLDG C	Soil	Unknown	123
B00B011	B00B011	Surface locati	20000918	Lead-210	3.5300	PCI/G	0.3400	RAD	0.0	0.0	14255-04-0			B BLDG C	Soil	Unknown	123
B00B014	B00B014	Surface locati	20000920	Lead-210	2.5300	PCI/G	0.3400	RAD	0.0	0.0	14255-04-0			B BLDG C	Soil	Unknown	123
B00B012	B00B012	Surface locati	20000918	Lead-210	2.1900	PCI/G	0.3300	RAD	0.0	0.0	14255-04-0			B BLDG C	Soil	Unknown	123
B00B013	B00B013	Surface locati	20000918	Lead-210	1.1000	PCI/G	0.3000	RAD	0.0	0.0	14255-04-0			B BLDG C	Soil	Unknown	1
B0WD013	000113	Borehole	20020308	Lead-210	0.9300	PCI/G	0.9300	RAD	0.0	5.0	14255-04-0	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000115	Borehole	20020308	Lead-210	0.8200	PCI/G	0.8200	RAD	10.0	15.0	14255-04-0	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000114	Borehole	20020308	Lead-210	0.5700	PCI/G	0.5700	RAD	5.0	10.0	14255-04-0	U		WDSOIL02	Soil	Geoprobe (DPT)	
B00B025	B00B025	Surface locati	20000921	Lead-210	0.5400	PCI/G	0.0600	RAD	0.0	0.0	14255-04-0			B BLDG C	Soil	Unknown	
B00B024	B00B024	Surface locati	20000921	Lead-210	0.5200	PCI/G	0.1600	RAD	0.0	0.0	14255-04-0			B BLDG C	Soil	Unknown	
B0WD013	000115	Borehole	20020308	Lithium	18.3000	MG/KG	12.3000	INORG	10.0	15.0	7439-93-2			WDSOIL02	Soil	Geoprobe (DPT)	
B-3	4003-0014	Borehole	19930811	Magnesium	36100.0000	MG/KG		INORG	12.5	14.5	7439-95-4			MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Magnesium	22400.0000	MG/KG		INORG	8.0	9.5	7439-95-4		J	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Magnesium	15100.0000	MG/KG		INORG	9.5	11.5	7439-95-4			MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Magnesium	14600.0000	MG/KG		INORG	8.0	9.5	7439-95-4		J	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Magnesium	14300.0000	MG/KG		INORG	4.0	4.8	7439-95-4			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Magnesium	11200.0000	MG/KG		INORG	5.5	7.5	7439-95-4		J	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Magnesium	11100.0000	MG/KG		INORG	8.5	10.5	7439-95-4			MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Magnesium	11000.0000	MG/KG		INORG	13.0	15.0	7439-95-4			MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Magnesium	9530.0000	MG/KG		INORG	6.5	8.5	7439-95-4			MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Magnesium	9340.0000	MG/KG		INORG	13.0	15.0	7439-95-4			MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Magnesium	9230.0000	MG/KG	1230.0000	INORG	10.0	15.0	7439-95-4			WDSOIL02	Soil	Geoprobe (DPT)	
B-7	4007-0005	Borehole	19930823	Magnesium	7150.0000	MG/KG		INORG	3.5	5.0	7439-95-4			MND16	Soil	Unknown	
A-2	1002-1015	Borehole	19930810	Manganese	686.0000	MG/KG		INORG	13.0	15.0	7439-96-5			MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Manganese	634.0000	MG/KG		INORG	13.0	15.0	7439-96-5			MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Manganese	583.0000	MG/KG	3.7000	INORG	10.0	15.0	7439-96-5	N		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Manganese	579.0000	MG/KG		INORG	8.0	9.5	7439-96-5			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Manganese	578.0000	MG/KG		INORG	9.5	11.5	7439-96-5			MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Manganese	574.0000	MG/KG		INORG	3.5	5.0	7439-96-5			MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Manganese	564.0000	MG/KG		INORG	8.0	9.5	7439-96-5			MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Manganese	547.0000	MG/KG		INORG	12.5	14.5	7439-96-5			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Manganese	441.0000	MG/KG		INORG	6.5	8.5	7439-96-5			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Manganese	420.0000	MG/KG		INORG	5.5	7.5	7439-96-5			MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Manganese	419.0000	MG/KG		INORG	8.5	10.5	7439-96-5			MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Manganese	355.0000	MG/KG		INORG	4.0	4.8	7439-96-5			MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Mercury	0.1200	MG/KG	0.1200	INORG	10.0	15.0	7439-97-6	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-1009	Borehole	19930921	Mercury	0.0200	MG/KG		INORG	8.0	9.5	7439-97-6	U	UJ	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Mercury	0.0200	MG/KG		INORG	8.0	9.5	7439-97-6	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Mercury	0.0200	MG/KG		INORG	4.0	4.8	7439-97-6	U	UJ	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Mercury	0.0200	MG/KG		INORG	8.5	10.5	7439-97-6	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Mercury	0.0200	MG/KG		INORG	13.0	15.0	7439-97-6	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Mercury	0.0100	MG/KG		INORG	3.5	5.0	7439-97-6	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Mercury	0.0100	MG/KG		INORG	5.5	7.5	7439-97-6	B		MND16	Soil	Split spoon	2

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-8	1008-0007	Borehole	19930817	Mercury	0.0100	MG/KG		INORG	6.5	8.5	7439-97-6	B		MND16	Soil	Split spoon	2
B-3	4003-0014	Borehole	19930811	Mercury	0.0100	MG/KG		INORG	12.5	14.5	7439-97-6	U	U	MND16	Soil	Unknown	
A-2	1002-1015	Borehole	19930810	Mercury	0.0100	MG/KG		INORG	13.0	15.0	7439-97-6	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Mercury	0.0100	MG/KG		INORG	9.5	11.5	7439-97-6	U	U	MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Naphthalene	790.0000	UG/KG		ORSVO	8.0	9.5	91-20-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Naphthalene	780.0000	UG/KG		ORSVO	13.0	15.0	91-20-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Naphthalene	770.0000	UG/KG		ORSVO	13.0	15.0	91-20-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Naphthalene	750.0000	UG/KG		ORSVO	8.5	10.5	91-20-3	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Naphthalene	750.0000	UG/KG		ORSVO	12.5	14.5	91-20-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Naphthalene	740.0000	UG/KG		ORSVO	9.5	11.5	91-20-3	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Naphthalene	730.0000	UG/KG		ORSVO	8.0	9.5	91-20-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Naphthalene	730.0000	UG/KG		ORSVO	3.5	5.0	91-20-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Naphthalene	720.0000	UG/KG		ORSVO	6.5	8.5	91-20-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Naphthalene	690.0000	UG/KG		ORSVO	5.5	7.5	91-20-3	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Naphthalene	670.0000	UG/KG		ORSVO	4.0	4.8	91-20-3	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Neptunium-237	0.1800	PCI/G	0.0400	RAD	4.0	4.8	13994-20-2			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Neptunium-237	0.0840	PCI/G	0.0020	RAD	5.5	7.5	13994-20-2			MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Neptunium-237	0.0650	PCI/G	0.0300	RAD	13.0	15.0	13994-20-2			MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Neptunium-237	0.0640	PCI/G	0.0300	RAD	8.0	9.5	13994-20-2			MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Neptunium-237	0.0100	PCI/G	0.0400	RAD	6.5	8.5	13994-20-2			MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Neptunium-237	0.0060	PCI/G	0.0500	RAD	8.5	10.5	13994-20-2			MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Neptunium-237	0.0050	PCI/G	0.0500	RAD	13.0	15.0	13994-20-2			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Neptunium-237	-0.0020	PCI/G	0.0200	RAD	9.5	11.5	13994-20-2			MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Neptunium-237	-0.0330	PCI/G	0.0300	RAD	8.0	9.5	13994-20-2			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Neptunium-237	-0.2400	PCI/G	0.1800	RAD	3.5	5.0	13994-20-2			MND16	Soil	Unknown	
B0WD013	000115	Borehole	20020308	Nickel	19.2000	MG/KG	9.9000	INORG	10.0	15.0	7440-02-0			WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Nitrobenzene	790.0000	UG/KG		ORSVO	8.0	9.5	98-95-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Nitrobenzene	780.0000	UG/KG		ORSVO	13.0	15.0	98-95-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Nitrobenzene	770.0000	UG/KG		ORSVO	13.0	15.0	98-95-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Nitrobenzene	750.0000	UG/KG		ORSVO	8.5	10.5	98-95-3	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Nitrobenzene	750.0000	UG/KG		ORSVO	12.5	14.5	98-95-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Nitrobenzene	740.0000	UG/KG		ORSVO	9.5	11.5	98-95-3	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Nitrobenzene	730.0000	UG/KG		ORSVO	8.0	9.5	98-95-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Nitrobenzene	730.0000	UG/KG		ORSVO	3.5	5.0	98-95-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Nitrobenzene	720.0000	UG/KG		ORSVO	6.5	8.5	98-95-3	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Nitrobenzene	690.0000	UG/KG		ORSVO	5.5	7.5	98-95-3	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Nitrobenzene	670.0000	UG/KG		ORSVO	4.0	4.8	98-95-3	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	N-Nitroso-di-n-propylamine	790.0000	UG/KG		ORSVO	8.0	9.5	621-64-7	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	N-Nitroso-di-n-propylamine	780.0000	UG/KG		ORSVO	13.0	15.0	621-64-7	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	N-Nitroso-di-n-propylamine	770.0000	UG/KG		ORSVO	13.0	15.0	621-64-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	N-Nitroso-di-n-propylamine	750.0000	UG/KG		ORSVO	8.5	10.5	621-64-7	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	N-Nitroso-di-n-propylamine	750.0000	UG/KG		ORSVO	12.5	14.5	621-64-7	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	N-Nitroso-di-n-propylamine	740.0000	UG/KG		ORSVO	9.5	11.5	621-64-7	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	N-Nitroso-di-n-propylamine	730.0000	UG/KG		ORSVO	8.0	9.5	621-64-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	N-Nitroso-di-n-propylamine	730.0000	UG/KG		ORSVO	3.5	5.0	621-64-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	N-Nitroso-di-n-propylamine	720.0000	UG/KG		ORSVO	6.5	8.5	621-64-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	N-Nitroso-di-n-propylamine	690.0000	UG/KG		ORSVO	5.5	7.5	621-64-7	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	N-Nitroso-di-n-propylamine	670.0000	UG/KG		ORSVO	4.0	4.8	621-64-7	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	N-Nitrosodiphenylamine	790.0000	UG/KG		ORSVO	8.0	9.5	86-30-6	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	N-Nitrosodiphenylamine	780.0000	UG/KG		ORSVO	13.0	15.0	86-30-6	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	N-Nitrosodiphenylamine	770.0000	UG/KG		ORSVO	13.0	15.0	86-30-6	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	N-Nitrosodiphenylamine	750.0000	UG/KG		ORSVO	8.5	10.5	86-30-6	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	N-Nitrosodiphenylamine	750.0000	UG/KG		ORSVO	12.5	14.5	86-30-6	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	N-Nitrosodiphenylamine	740.0000	UG/KG		ORSVO	9.5	11.5	86-30-6	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	N-Nitrosodiphenylamine	730.0000	UG/KG		ORSVO	8.0	9.5	86-30-6	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	N-Nitrosodiphenylamine	730.0000	UG/KG		ORSVO	3.5	5.0	86-30-6	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	N-Nitrosodiphenylamine	720.0000	UG/KG		ORSVO	6.5	8.5	86-30-6	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	N-Nitrosodiphenylamine	690.0000	UG/KG		ORSVO	5.5	7.5	86-30-6	U	U	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-29	1029-0004	Borehole	19930907	N-Nitrosodiphenylamine	670.0000	UG/KG		ORSVO	4.0	4.8	86-30-6	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Pentachlorophenol	4000.0000	UG/KG		ORSVO	8.0	9.5	87-86-5	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Pentachlorophenol	4000.0000	UG/KG		ORSVO	13.0	15.0	87-86-5	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Pentachlorophenol	4000.0000	UG/KG		ORSVO	13.0	15.0	87-86-5	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Pentachlorophenol	3900.0000	UG/KG		ORSVO	8.5	10.5	87-86-5	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Pentachlorophenol	3900.0000	UG/KG		ORSVO	12.5	14.5	87-86-5	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Pentachlorophenol	3800.0000	UG/KG		ORSVO	8.0	9.5	87-86-5	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Pentachlorophenol	3800.0000	UG/KG		ORSVO	9.5	11.5	87-86-5	U	U	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Pentachlorophenol	3700.0000	UG/KG		ORSVO	3.5	5.0	87-86-5	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Pentachlorophenol	3700.0000	UG/KG		ORSVO	6.5	8.5	87-86-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Pentachlorophenol	3600.0000	UG/KG		ORSVO	5.5	7.5	87-86-5	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Pentachlorophenol	3500.0000	UG/KG		ORSVO	4.0	4.8	87-86-5	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	pH	8.8000	STD UNIT		OTHER	4.0	4.8	1006			MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	pH	8.2000	STD UNIT		OTHER	8.0	9.5	1006			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	pH	7.4000	STD UNIT		OTHER	5.5	7.5	1006			MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	pH	7.4000	STD UNIT		OTHER	12.5	14.5	1006			MND16	Soil	Unknown	
A-2	1002-0015	Borehole	19930810	pH	7.4000	STD UNIT		OTHER	13.0	15.0	1006			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	pH	7.4000	STD UNIT		OTHER	9.5	11.5	1006			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	pH	7.2000	STD UNIT		OTHER	6.5	8.5	1006			MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	pH	6.9000	STD UNIT		OTHER	8.5	10.5	1006			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	pH	6.8000	STD UNIT		OTHER	3.5	5.0	1006			MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Phenanthrene	790.0000	UG/KG		ORSVO	8.0	9.5	85-01-8	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Phenanthrene	780.0000	UG/KG		ORSVO	13.0	15.0	85-01-8	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Phenanthrene	770.0000	UG/KG		ORSVO	13.0	15.0	85-01-8	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Phenanthrene	750.0000	UG/KG		ORSVO	8.5	10.5	85-01-8	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Phenanthrene	750.0000	UG/KG		ORSVO	12.5	14.5	85-01-8	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Phenanthrene	740.0000	UG/KG		ORSVO	9.5	11.5	85-01-8	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Phenanthrene	730.0000	UG/KG		ORSVO	8.0	9.5	85-01-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Phenanthrene	730.0000	UG/KG		ORSVO	3.5	5.0	85-01-8	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Phenanthrene	720.0000	UG/KG		ORSVO	6.5	8.5	85-01-8	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Phenanthrene	690.0000	UG/KG		ORSVO	5.5	7.5	85-01-8	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Phenanthrene	670.0000	UG/KG		ORSVO	4.0	4.8	85-01-8	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Phenol	790.0000	UG/KG		ORSVO	8.0	9.5	108-95-2	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Phenol	780.0000	UG/KG		ORSVO	13.0	15.0	108-95-2	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Phenol	770.0000	UG/KG		ORSVO	13.0	15.0	108-95-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Phenol	750.0000	UG/KG		ORSVO	8.5	10.5	108-95-2	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Phenol	750.0000	UG/KG		ORSVO	12.5	14.5	108-95-2	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Phenol	740.0000	UG/KG		ORSVO	9.5	11.5	108-95-2	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Phenol	730.0000	UG/KG		ORSVO	8.0	9.5	108-95-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Phenol	730.0000	UG/KG		ORSVO	3.5	5.0	108-95-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Phenol	720.0000	UG/KG		ORSVO	6.5	8.5	108-95-2	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Phenol	690.0000	UG/KG		ORSVO	5.5	7.5	108-95-2	U	UJ	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Phenol	670.0000	UG/KG		ORSVO	4.0	4.8	108-95-2	U	U	MND16	Soil	Split spoon	
SCR159	90072557	Borehole	19900725	Plutonium-238	225.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	123
SCR132	88022533	Borehole	19880224	Plutonium-238	79.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	123
SCR131	93111141	Borehole	19931111	Plutonium-238	35.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	93111515	Borehole	19931115	Plutonium-238	34.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	9311123-M	Borehole	19931111	Plutonium-238	34.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR132	88022550	Borehole	19880224	Plutonium-238	34.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR132	88022528	Borehole	19880224	Plutonium-238	33.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR132	88022545	Borehole	19880224	Plutonium-238	33.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR132	88022548	Borehole	19880224	Plutonium-238	33.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
A-9	1009-0006	Borehole	19930817	Plutonium-238	32.0000	PCI/G	0.0600	RAD	5.5	7.5	13981-16-3			MND16	Soil	Split spoon	12
SCR132	88022531	Borehole	19880224	Plutonium-238	32.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	9311162-M2	Borehole	19931116	Plutonium-238	31.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR159	90072561	Borehole	19900725	Plutonium-238	31.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	9311155-M1	Borehole	19931115	Plutonium-238	30.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR159	90072560	Borehole	19900725	Plutonium-238	30.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
SCR132	88022534	Borehole	19880224	Plutonium-238	30.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	93111220	Borehole	19931112	Plutonium-238	29.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR159	90072555	Borehole	19900725	Plutonium-238	29.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	9311168	Borehole	19931116	Plutonium-238	28.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	93111519	Borehole	19931115	Plutonium-238	28.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	93111520	Borehole	19931115	Plutonium-238	28.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	9311126	Borehole	19931111	Plutonium-238	28.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	93111518	Borehole	19931115	Plutonium-238	27.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	93111140	Borehole	19931111	Plutonium-238	27.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	9311124-M	Borehole	19931111	Plutonium-238	27.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR159	90072554	Borehole	19900725	Plutonium-238	27.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR161	9312024-Q	Borehole	19931202	Plutonium-238	26.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	9311164-M5	Borehole	19931116	Plutonium-238	26.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	9311167	Borehole	19931116	Plutonium-238	26.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	9311169	Borehole	19931116	Plutonium-238	26.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	9311161-M1	Borehole	19931116	Plutonium-238	26.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	93111219	Borehole	19931112	Plutonium-238	26.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR159	90072559	Borehole	19900725	Plutonium-238	26.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR132	88022546	Borehole	19880224	Plutonium-238	26.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	9311161-M3	Borehole	19931116	Plutonium-238	25.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	9311125-M	Borehole	19931111	Plutonium-238	25.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR131	93111092	Borehole	19931110	Plutonium-238	25.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR132	88022529	Borehole	19880224	Plutonium-238	25.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
B0WD013	000115	Borehole	20020308	Plutonium-238	24.0000	PCI/G	24.0000	RAD	10.0	15.0	13981-16-3	U		WDSOIL02	Soil	Geoprobe (DPT)	
SCR131	9311165-M3	Borehole	19931116	Plutonium-238	24.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M1	Borehole	19931116	Plutonium-238	24.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111521	Borehole	19931115	Plutonium-238	24.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M8	Borehole	19931116	Plutonium-238	23.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111512	Borehole	19931115	Plutonium-238	23.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111221	Borehole	19931112	Plutonium-238	23.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072550	Borehole	19900725	Plutonium-238	23.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072540	Borehole	19900725	Plutonium-238	23.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M1	Borehole	19931116	Plutonium-238	22.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M2	Borehole	19931116	Plutonium-238	22.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311127	Borehole	19931111	Plutonium-238	22.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072562	Borehole	19900725	Plutonium-238	22.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022549	Borehole	19880224	Plutonium-238	22.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022537	Borehole	19880224	Plutonium-238	22.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR161	9312022-Q	Borehole	19931202	Plutonium-238	21.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M1	Borehole	19931116	Plutonium-238	21.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111516	Borehole	19931115	Plutonium-238	21.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M3	Borehole	19931116	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M8	Borehole	19931116	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M8	Borehole	19931116	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111610	Borehole	19931116	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311151	Borehole	19931115	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311159	Borehole	19931115	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111222	Borehole	19931112	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111138	Borehole	19931111	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111139	Borehole	19931111	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072566	Borehole	19900725	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072564	Borehole	19900725	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072542	Borehole	19900725	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M4	Borehole	19931116	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M2	Borehole	19931116	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M4	Borehole	19931116	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M6	Borehole	19931116	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311166	Borehole	19931116	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
SCR131	9311161-M7	Borehole	19931116	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111093	Borehole	19931110	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022551	Borehole	19880224	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022530	Borehole	19880224	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022535	Borehole	19880224	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M6	Borehole	19931116	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111522	Borehole	19931115	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311158-M1	Borehole	19931115	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072567	Borehole	19900725	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072556	Borehole	19900725	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072552	Borehole	19900725	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072558	Borehole	19900725	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072548	Borehole	19900725	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022538	Borehole	19880224	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M7	Borehole	19931116	Plutonium-238	17.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311156-M1	Borehole	19931115	Plutonium-238	17.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022547	Borehole	19880224	Plutonium-238	17.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
B0WD013	000113	Borehole	20020308	Plutonium-238	16.0700	PCI/G	16.0700	RAD	0.0	5.0	13981-16-3	U		WDSOIL02	Soil	Geoprobe (DPT)	
SCR126	9312025-M7	Borehole	19931202	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M3	Borehole	19931116	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M8	Borehole	19931116	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M4	Borehole	19931116	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M5	Borehole	19931116	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311153-M1	Borehole	19931115	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111510	Borehole	19931115	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111514	Borehole	19931115	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311154-M2	Borehole	19931115	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311155-M2	Borehole	19931115	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072572	Borehole	19900725	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
B00B010	B00B010	Surface locati	20000918	Plutonium-238	15.5000	PCI/G	15.5000	RAD	0.0	0.0	13981-16-3	U		B BLDG C	Soil	Unknown	
SCR131	9311165-M2	Borehole	19931116	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M5	Borehole	19931116	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311154-M1	Borehole	19931115	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111517	Borehole	19931115	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072569	Borehole	19900725	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072563	Borehole	19900725	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072546	Borehole	19900725	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022542	Borehole	19880224	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022532	Borehole	19880224	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR161	9312025-M2	Borehole	19931202	Plutonium-238	14.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M3	Borehole	19931116	Plutonium-238	14.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M4	Borehole	19931116	Plutonium-238	14.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111218	Borehole	19931112	Plutonium-238	14.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072551	Borehole	19900725	Plutonium-238	14.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072544	Borehole	19900725	Plutonium-238	14.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072541	Borehole	19900725	Plutonium-238	14.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
B00B024	B00B024	Surface locati	20000921	Plutonium-238	13.1600	PCI/G	13.1600	RAD	0.0	0.0	13981-16-3	U		B BLDG C	Soil	Unknown	
SCR131	9311165-M1	Borehole	19931116	Plutonium-238	13.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M2	Borehole	19931116	Plutonium-238	13.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311157-M1	Borehole	19931115	Plutonium-238	13.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111091	Borehole	19931110	Plutonium-238	13.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072574	Borehole	19900725	Plutonium-238	13.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072568	Borehole	19900725	Plutonium-238	13.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
B0WD013	000114	Borehole	20020308	Plutonium-238	12.3700	PCI/G	12.3700	RAD	5.0	10.0	13981-16-3	U		WDSOIL02	Soil	Geoprobe (DPT)	
B00B014	B00B014	Surface locati	20000920	Plutonium-238	12.1900	PCI/G	12.1900	RAD	0.0	0.0	13981-16-3	U		B BLDG C	Soil	Unknown	
SCR161	9312023-Q1	Borehole	19931202	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111513	Borehole	19931115	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072549	Borehole	19900725	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
SCR159	90072539	Borehole	19900725	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022536	Borehole	19880224	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M5	Borehole	19931116	Plutonium-238	11.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M7	Borehole	19931116	Plutonium-238	11.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M7	Borehole	19931116	Plutonium-238	11.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M6	Borehole	19931116	Plutonium-238	11.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311153-M2	Borehole	19931115	Plutonium-238	11.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	93111511	Borehole	19931115	Plutonium-238	11.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072553	Borehole	19900725	Plutonium-238	11.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022540	Borehole	19880224	Plutonium-238	11.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022539	Borehole	19880224	Plutonium-238	11.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
B00B011	B00B011	Surface locati	20000918	Plutonium-238	10.8800	PCI/G	10.8800	RAD	0.0	0.0	13981-16-3	U		B BLDG C	Soil	Unknown	
B00B012	B00B012	Surface locati	20000918	Plutonium-238	10.7300	PCI/G	10.7300	RAD	0.0	0.0	13981-16-3	U		B BLDG C	Soil	Unknown	
SCR131	9311162-M7	Borehole	19931116	Plutonium-238	10.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072571	Borehole	19900725	Plutonium-238	10.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072570	Borehole	19900725	Plutonium-238	10.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022544	Borehole	19880224	Plutonium-238	10.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022543	Borehole	19880224	Plutonium-238	10.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311152	Borehole	19931115	Plutonium-238	9.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072545	Borehole	19900725	Plutonium-238	9.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR126	9312026-M	Borehole	19931202	Plutonium-238	8.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072575	Borehole	19900725	Plutonium-238	8.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072547	Borehole	19900725	Plutonium-238	8.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022527	Borehole	19880224	Plutonium-238	8.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR132	88022541	Borehole	19880224	Plutonium-238	8.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M8	Borehole	19931116	Plutonium-238	7.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M6	Borehole	19931116	Plutonium-238	7.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M5	Borehole	19931116	Plutonium-238	7.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M4	Borehole	19931116	Plutonium-238	6.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072565	Borehole	19900725	Plutonium-238	6.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
B0WD013	000113	Borehole	20020308	Plutonium-238	5.9200	PCI/G	0.0025	RAD	0.0	5.0	13981-16-3			WDSOIL02	Soil	Geoprobe (DPT)	2
B00B013	B00B013	Surface locati	20000918	Plutonium-238	5.4100	PCI/G	5.4100	RAD	0.0	0.0	13981-16-3	U		B BLDG C	Soil	Unknown	
B00B025	B00B025	Surface locati	20000921	Plutonium-238	5.1700	PCI/G	5.1700	RAD	0.0	0.0	13981-16-3	U		B BLDG C	Soil	Unknown	
A-2	1002-1015	Borehole	19930810	Plutonium-238	4.5000	PCI/G	0.1900	RAD	13.0	15.0	13981-16-3			MND16	Soil	Split spoon	2
SCR131	9311164-M6	Borehole	19931116	Plutonium-238	4.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR141	9012263	Borehole	19901226	Plutonium-238	4.0000	PCI/G		RAD	0.5	0.5	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072573	Borehole	19900725	Plutonium-238	3.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072543	Borehole	19900725	Plutonium-238	3.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
A-2	1002-0015	Borehole	19930810	Plutonium-238	1.5000	PCI/G	0.2200	RAD	13.0	15.0	13981-16-3	N		MND16	Soil	Split spoon	2
S0202	6218	Surface locati	19840801	Plutonium-238	1.1500	PCI/G	0.0100	RAD	0.0	0.0	13981-16-3			RSS	Soil	Not Applicable	2
S0180	6188	Surface locati	19840801	Plutonium-238	0.9600	PCI/G	0.0100	RAD	0.0	0.0	13981-16-3			RSS	Soil	Not Applicable	2
B0WD013	000114	Borehole	20020308	Plutonium-238	0.7970	PCI/G	0.0085	RAD	5.0	10.0	13981-16-3			WDSOIL02	Soil	Geoprobe (DPT)	2
B-7	4007-1007	Borehole	19930823	Plutonium-238	0.6900	PCI/G	0.1400	RAD	3.5	5.0	13981-16-3			MND16	Soil	Unknown	2
A-8	1008-0007	Borehole	19930817	Plutonium-238	0.6900	PCI/G	0.1300	RAD	6.5	8.5	13981-16-3	*		MND16	Soil	Split spoon	2
B-7	4007-0005	Borehole	19930823	Plutonium-238	0.6800	PCI/G	0.1600	RAD	3.5	5.0	13981-16-3	*		MND16	Soil	Unknown	2
A-16	1016-0009	Borehole	19930921	Plutonium-238	0.5100	PCI/G	0.1600	RAD	8.0	9.5	13981-16-3			MND16	Soil	Split spoon	2
A-5	1005-0011	Borehole	19930805	Plutonium-238	0.1000	PCI/G	0.1100	RAD	9.5	11.5	13981-16-3			MND16	Soil	Unknown	
S0191	4002	Surface locati	19831001	Plutonium-238	0.1000	PCI/G	0.0100	RAD	0.0	0.0	13981-16-3			RSS	Soil	Not Applicable	
C0255	8423	Borehole	19841101	Plutonium-238	0.0900	PCI/G	0.0100	RAD	3.0	3.0	13981-16-3			RSS	Soil	Not Applicable	
A-29	1029-0004	Borehole	19930907	Plutonium-238	0.0500	PCI/G	0.2600	RAD	4.0	4.8	13981-16-3			MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Plutonium-238	0.0090	PCI/G	0.1000	RAD	8.5	10.5	13981-16-3			MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Plutonium-238	0.0056	PCI/G	0.0025	RAD	10.0	15.0	13981-16-3	J		WDSOIL02	Soil	Geoprobe (DPT)	
SCR161	9312021-Q	Borehole	19931202	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR141	9012271	Borehole	19901227	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR141	9012273	Borehole	19901227	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR141	9012272	Borehole	19901227	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR141	9012274	Borehole	19901227	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR141	9012275	Borehole	19901227	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
SCR141	9012264	Borehole	19901226	Plutonium-238	0.0000	PCI/G		RAD	0.5	0.5	13981-16-3	U		SCRDATA	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Plutonium-238	-0.1200	PCI/G	0.2100	RAD	8.0	9.5	13981-16-3			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Plutonium-239/240	1.5000	PCI/G	0.0500	RAD	5.5	7.5	PU-239/240			MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Plutonium-239/240	0.3000	PCI/G	0.1700	RAD	13.0	15.0	PU-239/240			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Plutonium-239/240	0.0990	PCI/G	0.1200	RAD	3.5	5.0	PU-239/240			MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Plutonium-239/240	0.0360	PCI/G	0.0800	RAD	9.5	11.5	PU-239/240			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Plutonium-239/240	0.0320	PCI/G	0.1000	RAD	6.5	8.5	PU-239/240			MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Plutonium-239/240	0.0310	PCI/G	0.1400	RAD	13.0	15.0	PU-239/240			MND16	Soil	Split spoon	
B-7	4007-1007	Borehole	19930823	Plutonium-239/240	0.0270	PCI/G	0.1000	RAD	3.5	5.0	PU-239/240			MND16	Soil	Unknown	
A-10	1010-0009	Borehole	19930819	Plutonium-239/240	0.0180	PCI/G	0.0800	RAD	8.5	10.5	PU-239/240			MND16	Soil	Split spoon	
B0WD013	000113	Borehole	20020308	Plutonium-239/240	0.0145	PCI/G	0.0053	RAD	0.0	5.0	PU-239/240	J		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000114	Borehole	20020308	Plutonium-239/240	0.0075	PCI/G	0.0041	RAD	5.0	10.0	PU-239/240			WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000115	Borehole	20020308	Plutonium-239/240	0.0025	PCI/G	0.0025	RAD	10.0	15.0	PU-239/240	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-1009	Borehole	19930921	Plutonium-239/240	-0.0050	PCI/G	0.1600	RAD	8.0	9.5	PU-239/240			MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Plutonium-239/240	-0.0050	PCI/G	0.1200	RAD	8.0	9.5	PU-239/240			MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Plutonium-239/240	-0.0140	PCI/G	0.2000	RAD	4.0	4.8	PU-239/240			MND16	Soil	Split spoon	
B-7	4007-1007	Borehole	19930823	Plutonium-242	0.2400	PCI/G	0.3800	RAD	3.5	5.0	13982-10-0			MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Plutonium-242	0.1800	PCI/G	0.0800	RAD	5.5	7.5	13982-10-0			MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Plutonium-242	0.1000	PCI/G	0.2800	RAD	8.5	10.5	13982-10-0			MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Plutonium-242	0.0410	PCI/G	0.0800	RAD	13.0	15.0	13982-10-0			MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Plutonium-242	0.0270	PCI/G	0.1500	RAD	8.0	9.5	13982-10-0			MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Plutonium-242	0.0230	PCI/G	0.1500	RAD	8.0	9.5	13982-10-0			MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Plutonium-242	0.0230	PCI/G	0.1300	RAD	13.0	15.0	13982-10-0			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Plutonium-242	0.0180	PCI/G	0.0700	RAD	9.5	11.5	13982-10-0			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Plutonium-242	0.0140	PCI/G	0.1600	RAD	6.5	8.5	13982-10-0			MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Plutonium-242	-0.0230	PCI/G	0.2200	RAD	4.0	4.8	13982-10-0			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Plutonium-242	-0.0770	PCI/G	0.7100	RAD	3.5	5.0	13982-10-0			MND16	Soil	Unknown	
A-2	1002-0015	Borehole	19930810	Potassium	3450.0000	MG/KG		INORG	13.0	15.0	7440-09-7			MND16	Soil	Split spoon	2
A-8	1008-0007	Borehole	19930817	Potassium	3220.0000	MG/KG		INORG	6.5	8.5	7440-09-7			MND16	Soil	Split spoon	2
A-2	1002-1015	Borehole	19930810	Potassium	3180.0000	MG/KG		INORG	13.0	15.0	7440-09-7			MND16	Soil	Split spoon	2
A-5	1005-0011	Borehole	19930805	Potassium	3100.0000	MG/KG		INORG	9.5	11.5	7440-09-7			MND16	Soil	Unknown	2
B-7	4007-0005	Borehole	19930823	Potassium	2960.0000	MG/KG		INORG	3.5	5.0	7440-09-7		J	MND16	Soil	Unknown	2
B-3	4003-0014	Borehole	19930811	Potassium	2530.0000	MG/KG		INORG	12.5	14.5	7440-09-7			MND16	Soil	Unknown	2
A-10	1010-0009	Borehole	19930819	Potassium	1990.0000	MG/KG		INORG	8.5	10.5	7440-09-7	B		MND16	Soil	Split spoon	2
A-16	1016-1009	Borehole	19930921	Potassium	1870.0000	MG/KG		INORG	8.0	9.5	7440-09-7	B		MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Potassium	1560.0000	MG/KG		INORG	5.5	7.5	7440-09-7	B		MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Potassium	1460.0000	MG/KG	1230.0000	INORG	10.0	15.0	7440-09-7			WDSOIL02	Soil	Geoprobe (DPT)	
A-29	1029-0004	Borehole	19930907	Potassium	1130.0000	MG/KG		INORG	4.0	4.8	7440-09-7	B		MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Potassium	787.0000	MG/KG		INORG	8.0	9.5	7440-09-7	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Pyrene	790.0000	UG/KG		ORSVO	8.0	9.5	129-00-0	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Pyrene	780.0000	UG/KG		ORSVO	13.0	15.0	129-00-0	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Pyrene	770.0000	UG/KG		ORSVO	13.0	15.0	129-00-0	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Pyrene	750.0000	UG/KG		ORSVO	8.5	10.5	129-00-0	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Pyrene	750.0000	UG/KG		ORSVO	12.5	14.5	129-00-0	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Pyrene	740.0000	UG/KG		ORSVO	9.5	11.5	129-00-0	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Pyrene	730.0000	UG/KG		ORSVO	8.0	9.5	129-00-0	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Pyrene	730.0000	UG/KG		ORSVO	3.5	5.0	129-00-0	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Pyrene	720.0000	UG/KG		ORSVO	6.5	8.5	129-00-0	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Pyrene	690.0000	UG/KG		ORSVO	5.5	7.5	129-00-0	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Pyrene	670.0000	UG/KG		ORSVO	4.0	4.8	129-00-0	U	U	MND16	Soil	Split spoon	
B0WD013	000113	Borehole	20020308	Radium-226	2.1800	PCI/G	0.8900	RAD	0.0	5.0	13982-63-3			WDSOIL02	Soil	Geoprobe (DPT)	123
B00B010	B00B010	Surface locati	20000918	Radium-226	1.1000	PCI/G	0.1900	RAD	0.0	0.0	13982-63-3			B BLDG C	Soil	Unknown	1
B0WD013	000115	Borehole	20020308	Radium-226	1.0900	PCI/G	0.8600	RAD	10.0	15.0	13982-63-3			WDSOIL02	Soil	Geoprobe (DPT)	1
B0WD013	000114	Borehole	20020308	Radium-226	1.0700	PCI/G	0.8100	RAD	5.0	10.0	13982-63-3			WDSOIL02	Soil	Geoprobe (DPT)	1
B00B025	B00B025	Surface locati	20000921	Radium-226	0.9400	PCI/G	0.0700	RAD	0.0	0.0	13982-63-3			B BLDG C	Soil	Unknown	1
B00B024	B00B024	Surface locati	20000921	Radium-226	0.8600	PCI/G	0.1700	RAD	0.0	0.0	13982-63-3			B BLDG C	Soil	Unknown	1
B00B014	B00B014	Surface locati	20000920	Radium-226	0.8000	PCI/G	0.3500	RAD	0.0	0.0	13982-63-3			B BLDG C	Soil	Unknown	1
B00B011	B00B011	Surface locati	20000918	Radium-226	0.5200	PCI/G	0.3400	RAD	0.0	0.0	13982-63-3			B BLDG C	Soil	Unknown	1

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
B00B012	B00B012	Surface locati	20000918	Radium-226	0.4900	PCI/G	0.2900	RAD	0.0	0.0	13982-63-3			B BLDG C	Soil	Unknown	1
B00B013	B00B013	Surface locati	20000918	Radium-226	0.4400	PCI/G	0.2900	RAD	0.0	0.0	13982-63-3			B BLDG C	Soil	Unknown	1
B0WD013	000115	Borehole	20020308	Selenium	1.2000	MG/KG	1.2000	INORG	10.0	15.0	7782-49-2	U		WDSOIL02	Soil	Geoprobe (DPT)	
B-3	4003-0014	Borehole	19930811	Selenium	0.8600	MG/KG		INORG	12.5	14.5	7782-49-2	B		MND16	Soil	Unknown	2
A-16	1016-1009	Borehole	19930921	Selenium	0.7700	MG/KG		INORG	8.0	9.5	7782-49-2	B	J	MND16	Soil	Split spoon	2
A-5	1005-0011	Borehole	19930805	Selenium	0.7600	MG/KG		INORG	9.5	11.5	7782-49-2	B		MND16	Soil	Unknown	2
A-2	1002-0015	Borehole	19930810	Selenium	0.7200	MG/KG		INORG	13.0	15.0	7782-49-2	B		MND16	Soil	Split spoon	2
A-2	1002-1015	Borehole	19930810	Selenium	0.6700	MG/KG		INORG	13.0	15.0	7782-49-2	B		MND16	Soil	Split spoon	2
A-29	1029-0004	Borehole	19930907	Selenium	0.5600	MG/KG		INORG	4.0	4.8	7782-49-2	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Selenium	0.5300	MG/KG		INORG	8.5	10.5	7782-49-2	B		MND16	Soil	Split spoon	2
A-16	1016-0009	Borehole	19930921	Selenium	0.2900	MG/KG		INORG	8.0	9.5	7782-49-2	B	J	MND16	Soil	Split spoon	2
B-7	4007-0005	Borehole	19930823	Selenium	0.2200	MG/KG		INORG	3.5	5.0	7782-49-2	B	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Selenium	0.2200	MG/KG		INORG	6.5	8.5	7782-49-2	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Selenium	0.2100	MG/KG		INORG	5.5	7.5	7782-49-2	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Silver	7.1000	MG/KG		INORG	8.0	9.5	7440-22-4	U	UJ	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Silver	6.8000	MG/KG		INORG	8.5	10.5	7440-22-4	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Silver	6.7000	MG/KG		INORG	8.0	9.5	7440-22-4	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Silver	6.3000	MG/KG		INORG	5.5	7.5	7440-22-4	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Silver	6.1000	MG/KG		INORG	4.0	4.8	7440-22-4	U	UJ	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Silver	2.7000	MG/KG		INORG	12.5	14.5	7440-22-4	U	U	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Silver	2.6000	MG/KG		INORG	3.5	5.0	7440-22-4	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Silver	2.6000	MG/KG		INORG	6.5	8.5	7440-22-4	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Silver	2.5000	MG/KG	2.5000	INORG	10.0	15.0	7440-22-4	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-2	1002-0015	Borehole	19930810	Silver	1.4000	MG/KG		INORG	13.0	15.0	7440-22-4	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Silver	1.4000	MG/KG		INORG	13.0	15.0	7440-22-4	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Silver	1.3000	MG/KG		INORG	9.5	11.5	7440-22-4	U	U	MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Sodium	383.0000	MG/KG		INORG	8.0	9.5	7440-23-5	B		MND16	Soil	Split spoon	2
A-16	1016-0009	Borehole	19930921	Sodium	274.0000	MG/KG		INORG	8.0	9.5	7440-23-5	B		MND16	Soil	Split spoon	2
B-3	4003-0014	Borehole	19930811	Sodium	252.0000	MG/KG		INORG	12.5	14.5	7440-23-5	B		MND16	Soil	Unknown	2
A-10	1010-0009	Borehole	19930819	Sodium	202.0000	MG/KG		INORG	8.5	10.5	7440-23-5	B		MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Sodium	202.0000	MG/KG		INORG	6.5	8.5	7440-23-5	B		MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Sodium	194.0000	MG/KG		INORG	13.0	15.0	7440-23-5	B		MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Sodium	184.0000	MG/KG		INORG	4.0	4.8	7440-23-5	B		MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Sodium	178.0000	MG/KG		INORG	5.5	7.5	7440-23-5	B		MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Sodium	176.0000	MG/KG		INORG	3.5	5.0	7440-23-5	B		MND16	Soil	Unknown	
B0WD013	000115	Borehole	20020308	Sodium	174.0000	MG/KG	1230.0000	INORG	10.0	15.0	7440-23-5	B		WDSOIL02	Soil	Geoprobe (DPT)	
A-5	1005-0011	Borehole	19930805	Sodium	166.0000	MG/KG		INORG	9.5	11.5	7440-23-5	B		MND16	Soil	Unknown	
A-2	1002-1015	Borehole	19930810	Sodium	138.0000	MG/KG		INORG	13.0	15.0	7440-23-5	B		MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Strontium-90	0.7300	PCI/G	0.7200	RAD	3.5	5.0	10098-97-2	N		MND16	Soil	Unknown	2
B-3	4003-0014	Borehole	19930811	Strontium-90	0.2000	PCI/G	0.7400	RAD	12.5	14.5	10098-97-2	N		MND16	Soil	Unknown	
B-7	4007-1007	Borehole	19930823	Strontium-90	0.1600	PCI/G	0.5100	RAD	3.5	5.0	10098-97-2			MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Styrene	12.0000	UG/KG		ORVOA	8.0	9.5	100-42-5	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Styrene	12.0000	UG/KG		ORVOA	13.0	15.0	100-42-5	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Styrene	12.0000	UG/KG		ORVOA	13.0	15.0	100-42-5	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Styrene	11.0000	UG/KG		ORVOA	8.0	9.5	100-42-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Styrene	11.0000	UG/KG		ORVOA	3.5	5.0	100-42-5	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Styrene	11.0000	UG/KG		ORVOA	12.5	14.5	100-42-5	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Styrene	11.0000	UG/KG		ORVOA	9.5	11.5	100-42-5	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Styrene	10.0000	UG/KG		ORVOA	4.0	4.8	100-42-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Styrene	10.0000	UG/KG		ORVOA	5.5	7.5	100-42-5	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Styrene	9.0000	UG/KG		ORVOA	8.5	10.5	100-42-5	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Styrene	9.0000	UG/KG		ORVOA	6.5	8.5	100-42-5	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Styrene	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	100-42-5	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-1009	Borehole	19930921	Sulfide	10.0000	MG/KG		ANION	8.0	9.5	18496-25-8	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Sulfide	10.0000	MG/KG		ANION	8.0	9.5	18496-25-8	U	U	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Sulfide	10.0000	MG/KG		ANION	4.0	4.8	18496-25-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Sulfide	10.0000	MG/KG		ANION	3.5	5.0	18496-25-8	U	U	MND16	Soil	Unknown	
A-10	1010-0009	Borehole	19930819	Sulfide	10.0000	MG/KG		ANION	8.5	10.5	18496-25-8	U	U	MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-9	1009-0006	Borehole	19930817	Sulfide	10.0000	MG/KG		ANION	5.5	7.5	18496-25-8	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Sulfide	10.0000	MG/KG		ANION	6.5	8.5	18496-25-8	U	U	MND16	Soil	Split spoon	
B-3	4002-0014	Borehole	19930811	Sulfide	10.0000	MG/KG		ANION	12.5	14.5	18496-25-8	U	U	MND16	Soil	Unknown	
A-2	1002-0015	Borehole	19930810	Sulfide	10.0000	MG/KG		ANION	13.0	15.0	18496-25-8	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Sulfide	10.0000	MG/KG		ANION	13.0	15.0	18496-25-8	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Sulfide	10.0000	MG/KG		ANION	9.5	11.5	18496-25-8	U	U	MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Tetrachloroethene	12.0000	UG/KG		ORVOA	8.0	9.5	127-18-4	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Tetrachloroethene	12.0000	UG/KG		ORVOA	13.0	15.0	127-18-4	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Tetrachloroethene	12.0000	UG/KG		ORVOA	13.0	15.0	127-18-4	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Tetrachloroethene	11.0000	UG/KG		ORVOA	8.0	9.5	127-18-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Tetrachloroethene	11.0000	UG/KG		ORVOA	3.5	5.0	127-18-4	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Tetrachloroethene	11.0000	UG/KG		ORVOA	12.5	14.5	127-18-4	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Tetrachloroethene	11.0000	UG/KG		ORVOA	9.5	11.5	127-18-4	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Tetrachloroethene	10.0000	UG/KG		ORVOA	4.0	4.8	127-18-4	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Tetrachloroethene	10.0000	UG/KG		ORVOA	5.5	7.5	127-18-4	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Tetrachloroethene	9.0000	UG/KG		ORVOA	8.5	10.5	127-18-4	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Tetrachloroethene	9.0000	UG/KG		ORVOA	6.5	8.5	127-18-4	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Tetrachloroethene	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	127-18-4	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000115	Borehole	20020308	Thallium	2.5000	MG/KG	2.5000	INORG	10.0	15.0	7440-28-0	UN		WDSOIL02	Soil	Geoprobe (DPT)	2
A-16	1016-0009	Borehole	19930921	Thallium	2.4000	MG/KG		INORG	8.0	9.5	7440-28-0	U	R	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Thallium	2.2000	MG/KG		INORG	8.0	9.5	7440-28-0	U	R	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Thallium	2.0000	MG/KG		INORG	4.0	4.8	7440-28-0	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Thallium	0.4600	MG/KG		INORG	8.5	10.5	7440-28-0	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Thallium	0.4400	MG/KG		INORG	3.5	5.0	7440-28-0	U	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Thallium	0.4400	MG/KG		INORG	6.5	8.5	7440-28-0	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Thallium	0.4200	MG/KG		INORG	5.5	7.5	7440-28-0	U	U	MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Thallium	0.2300	MG/KG		INORG	12.5	14.5	7440-28-0	U	U	MND16	Soil	Unknown	
A-2	1002-0015	Borehole	19930810	Thallium	0.2300	MG/KG		INORG	13.0	15.0	7440-28-0	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Thallium	0.2300	MG/KG		INORG	13.0	15.0	7440-28-0	U	U	MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Thallium	0.2200	MG/KG		INORG	9.5	11.5	7440-28-0	U	R	MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Thorium-228	0.9600	PCI/G	0.2900	RAD	8.0	9.5	14274-82-9	*		MND16	Soil	Split spoon	1
A-5	1005-0011	Borehole	19930805	Thorium-228	0.9000	PCI/G	0.0800	RAD	9.5	11.5	14274-82-9			MND16	Soil	Unknown	1
A-9	1009-0006	Borehole	19930817	Thorium-228	0.7400	PCI/G	0.1600	RAD	5.5	7.5	14274-82-9			MND16	Soil	Split spoon	1
A-8	1008-0007	Borehole	19930817	Thorium-228	0.7300	PCI/G	0.2500	RAD	6.5	8.5	14274-82-9			MND16	Soil	Split spoon	1
A-2	1002-1015	Borehole	19930810	Thorium-228	0.6900	PCI/G	0.1900	RAD	13.0	15.0	14274-82-9			MND16	Soil	Split spoon	1
A-2	1002-0015	Borehole	19930810	Thorium-228	0.6800	PCI/G	0.1800	RAD	13.0	15.0	14274-82-9			MND16	Soil	Split spoon	1
A-16	1016-1009	Borehole	19930921	Thorium-228	0.5200	PCI/G	0.3400	RAD	8.0	9.5	14274-82-9			MND16	Soil	Split spoon	1
A-10	1010-0009	Borehole	19930819	Thorium-228	0.4600	PCI/G	0.1500	RAD	8.5	10.5	14274-82-9			MND16	Soil	Split spoon	1
A-29	1029-0004	Borehole	19930907	Thorium-228	0.2800	PCI/G	0.2400	RAD	4.0	4.8	14274-82-9			MND16	Soil	Split spoon	1
B0WD013	000113	Borehole	20020308	Thorium-230	11.1200	PCI/G	11.1200	RAD	0.0	5.0	14269-63-7	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000115	Borehole	20020308	Thorium-230	8.6200	PCI/G	8.6200	RAD	10.0	15.0	14269-63-7	U		WDSOIL02	Soil	Geoprobe (DPT)	
B0WD013	000114	Borehole	20020308	Thorium-230	6.2700	PCI/G	6.2700	RAD	5.0	10.0	14269-63-7	U		WDSOIL02	Soil	Geoprobe (DPT)	
B00B014	B00B014	Surface locati	20000920	Thorium-230	3.2700	PCI/G	3.2700	RAD	0.0	0.0	14269-63-7	U		B BLDG C	Soil	Unknown	
B00B012	B00B012	Surface locati	20000918	Thorium-230	2.9200	PCI/G	2.9200	RAD	0.0	0.0	14269-63-7	U		B BLDG C	Soil	Unknown	
B00B013	B00B013	Surface locati	20000918	Thorium-230	2.8300	PCI/G	2.8300	RAD	0.0	0.0	14269-63-7	U		B BLDG C	Soil	Unknown	
B00B011	B00B011	Surface locati	20000918	Thorium-230	2.8000	PCI/G	2.8000	RAD	0.0	0.0	14269-63-7	U		B BLDG C	Soil	Unknown	
B00B010	B00B010	Surface locati	20000918	Thorium-230	1.8900	PCI/G	1.8900	RAD	0.0	0.0	14269-63-7	L		B BLDG C	Soil	Unknown	
B00B024	B00B024	Surface locati	20000921	Thorium-230	1.6500	PCI/G	1.6500	RAD	0.0	0.0	14269-63-7	U		B BLDG C	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Thorium-230	1.2000	PCI/G	0.2300	RAD	8.0	9.5	14269-63-7			MND16	Soil	Split spoon	1
A-10	1010-0009	Borehole	19930819	Thorium-230	0.8100	PCI/G	0.1700	RAD	8.5	10.5	14269-63-7			MND16	Soil	Split spoon	1
A-5	1005-0011	Borehole	19930805	Thorium-230	0.8100	PCI/G	0.0800	RAD	9.5	11.5	14269-63-7			MND16	Soil	Unknown	1
A-9	1009-0006	Borehole	19930817	Thorium-230	0.7700	PCI/G	0.1700	RAD	5.5	7.5	14269-63-7			MND16	Soil	Split spoon	1
A-2	1002-0015	Borehole	19930810	Thorium-230	0.7500	PCI/G	0.2000	RAD	13.0	15.0	14269-63-7			MND16	Soil	Split spoon	1
A-8	1008-0007	Borehole	19930817	Thorium-230	0.6700	PCI/G	0.2700	RAD	6.5	8.5	14269-63-7			MND16	Soil	Split spoon	1
B00B025	B00B025	Surface locati	20000921	Thorium-230	0.6500	PCI/G	0.6500	RAD	0.0	0.0	14269-63-7	U		B BLDG C	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Thorium-230	0.6400	PCI/G	0.1900	RAD	4.0	4.8	14269-63-7			MND16	Soil	Split spoon	1
A-16	1016-1009	Borehole	19930921	Thorium-230	0.6100	PCI/G	0.2700	RAD	8.0	9.5	14269-63-7			MND16	Soil	Split spoon	1
A-2	1002-1015	Borehole	19930810	Thorium-230	0.5800	PCI/G	0.2000	RAD	13.0	15.0	14269-63-7			MND16	Soil	Split spoon	1

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
SCR132	88022533	Borehole	19880224	Thorium-232	3.1000	PCI/G		RAD	0.0	0.0	7440-29-1			SCRDATA	Soil	Unknown	123
C0255	8423	Borehole	19841101	Thorium-232	2.0000	PCI/G	2.0000	RAD	3.0	3.0	7440-29-1	U		RSS	Soil	Not Applicable	
S0180	6188	Surface locati	19840801	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	7440-29-1	U		RSS	Soil	Not Applicable	
S0202	6218	Surface locati	19840801	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	7440-29-1	U		RSS	Soil	Not Applicable	
S0191	4002	Surface locati	19831001	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	7440-29-1	U		RSS	Soil	Not Applicable	
SCR131	93111139	Borehole	19931111	Thorium-232	1.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M1	Borehole	19931116	Thorium-232	1.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022528	Borehole	19880224	Thorium-232	1.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022530	Borehole	19880224	Thorium-232	1.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022539	Borehole	19880224	Thorium-232	1.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111141	Borehole	19931111	Thorium-232	1.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022527	Borehole	19880224	Thorium-232	1.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022536	Borehole	19880224	Thorium-232	1.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111222	Borehole	19931112	Thorium-232	1.5000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311123-M	Borehole	19931111	Thorium-232	1.5000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311125-M	Borehole	19931111	Thorium-232	1.5000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022547	Borehole	19880224	Thorium-232	1.5000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022550	Borehole	19880224	Thorium-232	1.5000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022532	Borehole	19880224	Thorium-232	1.5000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022538	Borehole	19880224	Thorium-232	1.5000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M1	Borehole	19931116	Thorium-232	1.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311167	Borehole	19931116	Thorium-232	1.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111518	Borehole	19931115	Thorium-232	1.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311153-M1	Borehole	19931115	Thorium-232	1.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111140	Borehole	19931111	Thorium-232	1.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022545	Borehole	19880224	Thorium-232	1.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022548	Borehole	19880224	Thorium-232	1.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022551	Borehole	19880224	Thorium-232	1.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR161	9312023-Q1	Borehole	19931202	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M2	Borehole	19931116	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M1	Borehole	19931116	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M3	Borehole	19931116	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M2	Borehole	19931116	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M2	Borehole	19931116	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311156-M1	Borehole	19931115	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111138	Borehole	19931111	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311127	Borehole	19931111	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022529	Borehole	19880224	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022540	Borehole	19880224	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022531	Borehole	19880224	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022535	Borehole	19880224	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022534	Borehole	19880224	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR161	9312021-Q	Borehole	19931202	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR161	9312025-M2	Borehole	19931202	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR161	9312024-Q	Borehole	19931202	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M4	Borehole	19931116	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M3	Borehole	19931116	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M1	Borehole	19931116	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311168	Borehole	19931116	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111610	Borehole	19931116	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M3	Borehole	19931116	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111519	Borehole	19931115	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311151	Borehole	19931115	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311155-M1	Borehole	19931115	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311124-M	Borehole	19931111	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311126	Borehole	19931111	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022543	Borehole	19880224	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022546	Borehole	19880224	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
SCR126	9312026-M	Borehole	19931202	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR161	9312022-Q	Borehole	19931202	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M4	Borehole	19931116	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M2	Borehole	19931116	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311166	Borehole	19931116	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311169	Borehole	19931116	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M2	Borehole	19931116	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M1	Borehole	19931116	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111517	Borehole	19931115	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111516	Borehole	19931115	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311154-M2	Borehole	19931115	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311155-M2	Borehole	19931115	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111220	Borehole	19931112	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022549	Borehole	19880224	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M5	Borehole	19931116	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M5	Borehole	19931116	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M3	Borehole	19931116	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M4	Borehole	19931116	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M6	Borehole	19931116	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M3	Borehole	19931116	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M4	Borehole	19931116	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M5	Borehole	19931116	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M4	Borehole	19931116	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111521	Borehole	19931115	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111515	Borehole	19931115	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111513	Borehole	19931115	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311157-M1	Borehole	19931115	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111219	Borehole	19931112	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Thorium-232	1.0000	PCI/G	0.0600	RAD	9.5	11.5	7440-29-1			MND16	Soil	Unknown	1
SCR159	90072547	Borehole	19900725	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072545	Borehole	19900725	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072542	Borehole	19900725	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022541	Borehole	19880224	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022537	Borehole	19880224	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M6	Borehole	19931116	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311163-M5	Borehole	19931116	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M6	Borehole	19931116	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M8	Borehole	19931116	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M6	Borehole	19931116	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311161-M7	Borehole	19931116	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M5	Borehole	19931116	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311154-M1	Borehole	19931115	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111510	Borehole	19931115	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111512	Borehole	19931115	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311158-M1	Borehole	19931115	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072550	Borehole	19900725	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072563	Borehole	19900725	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072548	Borehole	19900725	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072540	Borehole	19900725	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072539	Borehole	19900725	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022544	Borehole	19880224	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR132	88022542	Borehole	19880224	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
A-2	1002-1015	Borehole	19930810	Thorium-232	0.8500	PCI/G	0.1600	RAD	13.0	15.0	7440-29-1			MND16	Soil	Split spoon	1
A-10	1010-0009	Borehole	19930819	Thorium-232	0.8400	PCI/G	0.1300	RAD	8.5	10.5	7440-29-1			MND16	Soil	Split spoon	1
B0WD013	000113	Borehole	20020308	Thorium-232	0.8000	PCI/G	0.1800	RAD	0.0	5.0	7440-29-1			WDSOIL02	Soil	Geoprobe (DPT)	1
SCR131	9311164-M7	Borehole	19931116	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M6	Borehole	19931116	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311164-M8	Borehole	19931116	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
SCR131	9311163-M7	Borehole	19931116	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111221	Borehole	19931112	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111218	Borehole	19931112	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111093	Borehole	19931110	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111091	Borehole	19931110	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111092	Borehole	19931110	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR141	9012274	Borehole	19901227	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072566	Borehole	19900725	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072568	Borehole	19900725	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072564	Borehole	19900725	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072546	Borehole	19900725	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072544	Borehole	19900725	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR126	9312025-M7	Borehole	19931202	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M7	Borehole	19931116	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M8	Borehole	19931116	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311162-M7	Borehole	19931116	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311152	Borehole	19931115	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111520	Borehole	19931115	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111522	Borehole	19931115	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311153-M2	Borehole	19931115	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111511	Borehole	19931115	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	93111514	Borehole	19931115	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311159	Borehole	19931115	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072574	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072571	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072569	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072567	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072565	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072554	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072555	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072549	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072559	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072562	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072561	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
B0WD013	000115	Borehole	20020308	Thorium-232	0.6600	PCI/G	0.1600	RAD	10.0	15.0	7440-29-1			WDSOIL02	Soil	Geoprobe (DPT)	1
A-16	1016-0009	Borehole	19930921	Thorium-232	0.6400	PCI/G	0.1900	RAD	8.0	9.5	7440-29-1			MND16	Soil	Split spoon	1
SCR131	9311163-M8	Borehole	19931116	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR131	9311165-M8	Borehole	19931116	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072575	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072573	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072572	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072570	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072556	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072551	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072557	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072558	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072543	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072541	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
B0WD013	000114	Borehole	20020308	Thorium-232	0.5000	PCI/G	0.1800	RAD	5.0	10.0	7440-29-1			WDSOIL02	Soil	Geoprobe (DPT)	1
A-16	1016-1009	Borehole	19930921	Thorium-232	0.5000	PCI/G	0.2200	RAD	8.0	9.5	7440-29-1			MND16	Soil	Split spoon	1
SCR141	9012275	Borehole	19901227	Thorium-232	0.5000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072552	Borehole	19900725	Thorium-232	0.5000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Thorium-232	0.4600	PCI/G	0.2100	RAD	6.5	8.5	7440-29-1			MND16	Soil	Split spoon	1
A-9	1009-0006	Borehole	19930817	Thorium-232	0.4300	PCI/G	0.1300	RAD	5.5	7.5	7440-29-1			MND16	Soil	Split spoon	1
A-2	1002-0015	Borehole	19930810	Thorium-232	0.4200	PCI/G	0.1600	RAD	13.0	15.0	7440-29-1			MND16	Soil	Split spoon	1
A-29	1029-0004	Borehole	19930907	Thorium-232	0.4100	PCI/G	0.1600	RAD	4.0	4.8	7440-29-1			MND16	Soil	Split spoon	1
SCR141	9012273	Borehole	19901227	Thorium-232	0.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR141	9012272	Borehole	19901227	Thorium-232	0.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
SCR141	9012264	Borehole	19901226	Thorium-232	0.4000	PCI/G		RAD	0.5	0.5	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072553	Borehole	19900725	Thorium-232	0.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072560	Borehole	19900725	Thorium-232	0.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR141	9012271	Borehole	19901227	Thorium-232	0.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
B00B025	B00B025	Surface locati	20000921	Thorium-232	0.2000	PCI/G	0.0100	RAD	0.0	0.0	7440-29-1			B BLDG C	Soil	Unknown	1
B00B010	B00B010	Surface locati	20000918	Thorium-232	0.2000	PCI/G	0.0200	RAD	0.0	0.0	7440-29-1			B BLDG C	Soil	Unknown	1
B00B011	B00B011	Surface locati	20000918	Thorium-232	0.1900	PCI/G	0.0400	RAD	0.0	0.0	7440-29-1			B BLDG C	Soil	Unknown	1
B00B013	B00B013	Surface locati	20000918	Thorium-232	0.1800	PCI/G	0.0300	RAD	0.0	0.0	7440-29-1			B BLDG C	Soil	Unknown	1
B00B012	B00B012	Surface locati	20000918	Thorium-232	0.1800	PCI/G	0.0300	RAD	0.0	0.0	7440-29-1			B BLDG C	Soil	Unknown	1
B00B024	B00B024	Surface locati	20000921	Thorium-232	0.1700	PCI/G	0.0300	RAD	0.0	0.0	7440-29-1			B BLDG C	Soil	Unknown	1
SCR141	9012263	Borehole	19901226	Thorium-232	0.1000	PCI/G		RAD	0.5	0.5	7440-29-1	U		SCRDATA	Soil	Unknown	
B00B014	B00B014	Surface locati	20000920	Thorium-232	0.0200	PCI/G	0.0200	RAD	0.0	0.0	7440-29-1	U		B BLDG C	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Toluene	12.0000	UG/KG		ORVOA	8.0	9.5	108-88-3	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Toluene	12.0000	UG/KG		ORVOA	13.0	15.0	108-88-3	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Toluene	12.0000	UG/KG		ORVOA	13.0	15.0	108-88-3	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Toluene	11.0000	UG/KG		ORVOA	8.0	9.5	108-88-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Toluene	11.0000	UG/KG		ORVOA	3.5	5.0	108-88-3	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Toluene	11.0000	UG/KG		ORVOA	12.5	14.5	108-88-3	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Toluene	11.0000	UG/KG		ORVOA	9.5	11.5	108-88-3	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Toluene	10.0000	UG/KG		ORVOA	4.0	4.8	108-88-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Toluene	10.0000	UG/KG		ORVOA	5.5	7.5	108-88-3	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Toluene	9.0000	UG/KG		ORVOA	8.5	10.5	108-88-3	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Toluene	9.0000	UG/KG		ORVOA	6.5	8.5	108-88-3	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Toluene	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	108-88-3	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Trichloroethylene (TCE)	12.0000	UG/KG		ORVOA	8.0	9.5	79-01-6	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Trichloroethylene (TCE)	12.0000	UG/KG		ORVOA	13.0	15.0	79-01-6	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Trichloroethylene (TCE)	12.0000	UG/KG		ORVOA	13.0	15.0	79-01-6	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Trichloroethylene (TCE)	11.0000	UG/KG		ORVOA	8.0	9.5	79-01-6	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Trichloroethylene (TCE)	11.0000	UG/KG		ORVOA	3.5	5.0	79-01-6	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Trichloroethylene (TCE)	11.0000	UG/KG		ORVOA	12.5	14.5	79-01-6	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Trichloroethylene (TCE)	11.0000	UG/KG		ORVOA	9.5	11.5	79-01-6	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Trichloroethylene (TCE)	10.0000	UG/KG		ORVOA	4.0	4.8	79-01-6	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Trichloroethylene (TCE)	10.0000	UG/KG		ORVOA	5.5	7.5	79-01-6	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Trichloroethylene (TCE)	9.0000	UG/KG		ORVOA	8.5	10.5	79-01-6	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Trichloroethylene (TCE)	9.0000	UG/KG		ORVOA	6.5	8.5	79-01-6	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Trichloroethylene (TCE)	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	79-01-6	U		WDSOIL02	Soil	Geoprobe (DPT)	
P004	19860905P004	Surface locati	19860905	Tritium	89435.0000	PCI/L		RAD	0.0	0.0	10028-17-8			SPRFLG	Ground	Unknown	5
P004	19860822P004	Surface locati	19860822	Tritium	88275.0000	PCI/L		RAD	0.0	0.0	10028-17-8			SPRFLG	Ground	Unknown	5
P004	19860903P004	Surface locati	19860903	Tritium	87064.0000	PCI/L		RAD	0.0	0.0	10028-17-8			SPRFLG	Ground	Unknown	5
P004	19860827P004	Surface locati	19860827	Tritium	86317.0000	PCI/L		RAD	0.0	0.0	10028-17-8			SPRFLG	Ground	Unknown	5
P004	19860820P004	Surface locati	19860820	Tritium	85432.0000	PCI/L		RAD	0.0	0.0	10028-17-8			SPRFLG	Ground	Unknown	5
P004	19860818P004	Surface locati	19860818	Tritium	85337.0000	PCI/L		RAD	0.0	0.0	10028-17-8			SPRFLG	Ground	Unknown	5
P004	19860825P004	Surface locati	19860825	Tritium	75103.0000	PCI/L		RAD	0.0	0.0	10028-17-8			SPRFLG	Ground	Unknown	5
A-5	1005-0011	Borehole	19930805	Tritium	1.1000	PCI/G	0.3300	RAD	9.5	11.5	10028-17-8			MND16	Soil	Unknown	
C-5	5005-1014	Borehole	19930819	Tritium	0.8700	PCI/G	0.3600	RAD	13.5	14.7	10028-17-8			MND16	Soil	Unknown	
C-5	5005-0014	Borehole	19930819	Tritium	0.7200	PCI/G	0.3600	RAD	13.5	14.7	10028-17-8			MND16	Soil	Unknown	
C-3	5003-0006	Borehole	19930820	Tritium	0.1200	PCI/G	0.3600	RAD	5.5	7.5	10028-17-8			MND16	Soil	Unknown	
A-2	1002-0015	Borehole	19930810	Uranium-234	1.3000	PCI/G	0.2300	RAD	13.0	15.0	13966-29-5			MND16	Soil	Split spoon	2
A-8	1008-0007	Borehole	19930817	Uranium-234	0.8700	PCI/G	0.2200	RAD	6.5	8.5	13966-29-5			MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Uranium-234	0.8500	PCI/G	0.2200	RAD	13.0	15.0	13966-29-5			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Uranium-234	0.7600	PCI/G	0.1900	RAD	5.5	7.5	13966-29-5			MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Uranium-234	0.6800	PCI/G	0.0900	RAD	8.0	9.5	13966-29-5			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Uranium-234	0.6700	PCI/G	0.2600	RAD	3.5	5.0	13966-29-5			MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Uranium-234	0.6400	PCI/G	0.0400	RAD	9.5	11.5	13966-29-5			MND16	Soil	Unknown	
A-16	1016-0009	Borehole	19930921	Uranium-234	0.5400	PCI/G	0.1000	RAD	8.0	9.5	13966-29-5			MND16	Soil	Split spoon	
B-7	4007-1007	Borehole	19930823	Uranium-234	0.5100	PCI/G	0.3800	RAD	3.5	5.0	13966-29-5			MND16	Soil	Unknown	
A-10	1010-0009	Borehole	19930819	Uranium-234	0.5100	PCI/G	0.2100	RAD	8.5	10.5	13966-29-5			MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Uranium-234	0.4700	PCI/G	0.0900	RAD	4.0	4.8	13966-29-5			MND16	Soil	Split spoon	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
B-7	4007-0005	Borehole	19930823	Uranium-235	0.1300	PCI/G	0.2100	RAD	3.5	5.0	15117-96-1			MND16	Soil	Unknown	2
A-29	1029-0004	Borehole	19930907	Uranium-235	0.0450	PCI/G	0.0800	RAD	4.0	4.8	15117-96-1			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Uranium-235	0.0450	PCI/G	0.1600	RAD	5.5	7.5	15117-96-1			MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Uranium-235	0.0450	PCI/G	0.1800	RAD	6.5	8.5	15117-96-1			MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Uranium-235	0.0360	PCI/G	0.1800	RAD	8.5	10.5	15117-96-1			MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Uranium-235	0.0320	PCI/G	0.0800	RAD	8.0	9.5	15117-96-1			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Uranium-235	0.0310	PCI/G	0.0400	RAD	9.5	11.5	15117-96-1			MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Uranium-235	0.0230	PCI/G	0.0800	RAD	8.0	9.5	15117-96-1			MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Uranium-235	-0.0040	PCI/G	0.1800	RAD	13.0	15.0	15117-96-1			MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Uranium-235	-0.0140	PCI/G	0.1900	RAD	13.0	15.0	15117-96-1			MND16	Soil	Split spoon	
B-7	4007-1007	Borehole	19930823	Uranium-235	-0.0180	PCI/G	0.3100	RAD	3.5	5.0	15117-96-1			MND16	Soil	Unknown	
A-2	1002-0015	Borehole	19930810	Uranium-238	1.1000	PCI/G	0.2100	RAD	13.0	15.0	7440-61-1			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Uranium-238	1.0000	PCI/G	0.2300	RAD	3.5	5.0	7440-61-1			MND16	Soil	Unknown	
A-2	1002-1015	Borehole	19930810	Uranium-238	0.8700	PCI/G	0.1900	RAD	13.0	15.0	7440-61-1			MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Uranium-238	0.7900	PCI/G	0.0900	RAD	8.0	9.5	7440-61-1			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Uranium-238	0.7000	PCI/G	0.0400	RAD	9.5	11.5	7440-61-1			MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Uranium-238	0.6400	PCI/G	0.1800	RAD	5.5	7.5	7440-61-1			MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Uranium-238	0.5400	PCI/G	0.2000	RAD	6.5	8.5	7440-61-1			MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Uranium-238	0.4900	PCI/G	0.0900	RAD	8.0	9.5	7440-61-1			MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Uranium-238	0.4200	PCI/G	0.1900	RAD	8.5	10.5	7440-61-1			MND16	Soil	Split spoon	
B-7	4007-1007	Borehole	19930823	Uranium-238	0.2800	PCI/G	0.3400	RAD	3.5	5.0	7440-61-1			MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Uranium-238	0.2700	PCI/G	0.0800	RAD	4.0	4.8	7440-61-1	*		MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Vanadium	21.8000	MG/KG		INORG	13.0	15.0	7440-62-2			MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Vanadium	21.4000	MG/KG		INORG	13.0	15.0	7440-62-2			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Vanadium	19.2000	MG/KG		INORG	9.5	11.5	7440-62-2			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Vanadium	18.6000	MG/KG		INORG	6.5	8.5	7440-62-2	B		MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Vanadium	14.7000	MG/KG		INORG	3.5	5.0	7440-62-2	B		MND16	Soil	Unknown	
A-16	1016-1009	Borehole	19930921	Vanadium	14.4000	MG/KG		INORG	8.0	9.5	7440-62-2	B		MND16	Soil	Split spoon	
B-3	4003-0014	Borehole	19930811	Vanadium	13.4000	MG/KG		INORG	12.5	14.5	7440-62-2	B		MND16	Soil	Unknown	
A-10	1010-0009	Borehole	19930819	Vanadium	12.1000	MG/KG		INORG	8.5	10.5	7440-62-2	B		MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Vanadium	11.9000	MG/KG	2.5000	INORG	10.0	15.0	7440-62-2			WDSOIL02	Soil	Geoprobe (DPT)	
A-29	1029-0004	Borehole	19930907	Vanadium	11.8000	MG/KG		INORG	4.0	4.8	7440-62-2	B		MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Vanadium	8.6000	MG/KG		INORG	5.5	7.5	7440-62-2	B	J	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Vanadium	8.3000	MG/KG		INORG	8.0	9.5	7440-62-2	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Vinyl Chloride	12.0000	UG/KG	12.0000	ORVOA	10.0	15.0	75-01-4	U		WDSOIL02	Soil	Geoprobe (DPT)	
A-16	1016-0009	Borehole	19930921	Vinyl Chloride	12.0000	UG/KG		ORVOA	8.0	9.5	75-01-4	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Vinyl Chloride	12.0000	UG/KG		ORVOA	13.0	15.0	75-01-4	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Vinyl Chloride	12.0000	UG/KG		ORVOA	13.0	15.0	75-01-4	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Vinyl Chloride	11.0000	UG/KG		ORVOA	8.0	9.5	75-01-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Vinyl Chloride	11.0000	UG/KG		ORVOA	3.5	5.0	75-01-4	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Vinyl Chloride	11.0000	UG/KG		ORVOA	12.5	14.5	75-01-4	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Vinyl Chloride	11.0000	UG/KG		ORVOA	9.5	11.5	75-01-4	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Vinyl Chloride	10.0000	UG/KG		ORVOA	4.0	4.8	75-01-4	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Vinyl Chloride	10.0000	UG/KG		ORVOA	5.5	7.5	75-01-4	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Vinyl Chloride	9.0000	UG/KG		ORVOA	8.5	10.5	75-01-4	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Vinyl Chloride	9.0000	UG/KG		ORVOA	6.5	8.5	75-01-4	U	U	MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Xylenes, Total	12.0000	UG/KG		ORVOA	8.0	9.5	1330-20-7	U	U	MND16	Soil	Split spoon	
A-2	1002-0015	Borehole	19930810	Xylenes, Total	12.0000	UG/KG		ORVOA	13.0	15.0	1330-20-7	U	U	MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Xylenes, Total	12.0000	UG/KG		ORVOA	13.0	15.0	1330-20-7	U	U	MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Xylenes, Total	11.0000	UG/KG		ORVOA	8.0	9.5	1330-20-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Xylenes, Total	11.0000	UG/KG		ORVOA	3.5	5.0	1330-20-7	U	U	MND16	Soil	Unknown	
B-3	4002-0014	Borehole	19930811	Xylenes, Total	11.0000	UG/KG		ORVOA	12.5	14.5	1330-20-7	U	U	MND16	Soil	Unknown	
A-5	1005-0011	Borehole	19930805	Xylenes, Total	11.0000	UG/KG		ORVOA	9.5	11.5	1330-20-7	U	U	MND16	Soil	Unknown	
A-29	1029-0004	Borehole	19930907	Xylenes, Total	10.0000	UG/KG		ORVOA	4.0	4.8	1330-20-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Xylenes, Total	10.0000	UG/KG		ORVOA	5.5	7.5	1330-20-7	U	U	MND16	Soil	Split spoon	
A-10	1010-0009	Borehole	19930819	Xylenes, Total	9.0000	UG/KG		ORVOA	8.5	10.5	1330-20-7	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Xylenes, Total	9.0000	UG/KG		ORVOA	6.5	8.5	1330-20-7	U	U	MND16	Soil	Split spoon	
B0WD013	000115	Borehole	20020308	Xylenes, Total	6.2000	UG/KG	6.2000	ORVOA	10.0	15.0	1330-20-7	U		WDSOIL02	Soil	Geoprobe (DPT)	

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Units	Detection Limit	Chemical Class	Start Depth	End Depth	CAS Number	Lab Qual	Data Qual	Project Code	Media	Collection Method	Comments
A-2	1002-0015	Borehole	19930810	Zinc	73.1000	MG/KG		INORG	13.0	15.0	7440-66-6			MND16	Soil	Split spoon	
A-2	1002-1015	Borehole	19930810	Zinc	67.1000	MG/KG		INORG	13.0	15.0	7440-66-6			MND16	Soil	Split spoon	
A-5	1005-0011	Borehole	19930805	Zinc	61.8000	MG/KG		INORG	9.5	11.5	7440-66-6			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Zinc	48.3000	MG/KG		INORG	6.5	8.5	7440-66-6			MND16	Soil	Split spoon	
A-16	1016-0009	Borehole	19930921	Zinc	44.9000	MG/KG		INORG	8.0	9.5	7440-66-6			MND16	Soil	Split spoon	
A-16	1016-1009	Borehole	19930921	Zinc	43.2000	MG/KG		INORG	8.0	9.5	7440-66-6			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Zinc	41.5000	MG/KG		INORG	3.5	5.0	7440-66-6			MND16	Soil	Unknown	
B-3	4003-0014	Borehole	19930811	Zinc	37.2000	MG/KG		INORG	12.5	14.5	7440-66-6			MND16	Soil	Unknown	
B0WD013	000115	Borehole	20020308	Zinc	36.3000	MG/KG	4.9000	INORG	10.0	15.0	7440-66-6			WDSOIL02	Soil	Geoprobe (DPT)	
A-10	1010-0009	Borehole	19930819	Zinc	30.0000	MG/KG		INORG	8.5	10.5	7440-66-6			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Zinc	27.0000	MG/KG		INORG	5.5	7.5	7440-66-6		J	MND16	Soil	Split spoon	
A-29	1029-0004	Borehole	19930907	Zinc	24.9000	MG/KG		INORG	4.0	4.8	7440-66-6			MND16	Soil	Split spoon	