300302-0605040007

CH2M HILL Mound, Inc.
1075 Mound Road
P.O. Box 750
Miamisburg, OH 45343-0750

CH2MHILL

SMO-051/06
January 19, 2006

Mr. Don Pfister, Director
Miamisburg Closure Project
U. S. Department of Energy
175 Tri-County Parkway
Springdale, OH 45246

ATTENTION: Paul Lucas

SUBJECT: **Contract No. DE-AC24-03OH20152:** Deliverable #36 Building Data Package; Section C.2.1.1 Facility Demolition; PRS 112/368 PRS Package Addendum 1, Public Review Draft

Dear Mr. Pfister:

Paul Lucas of your office has authorized the release of the following document for public review:

- PRS 112/368 PRS Package Addendum 1, Public Review Draft

Public comment will be accepted through February 22, 2006.

If you or members of your staff have any questions regarding the document, or if additional support is needed, please contact Dave Rakel at 937-865-4203.

Sincerely,

John Lehew
Site Manager

JL/sp

Enclosures

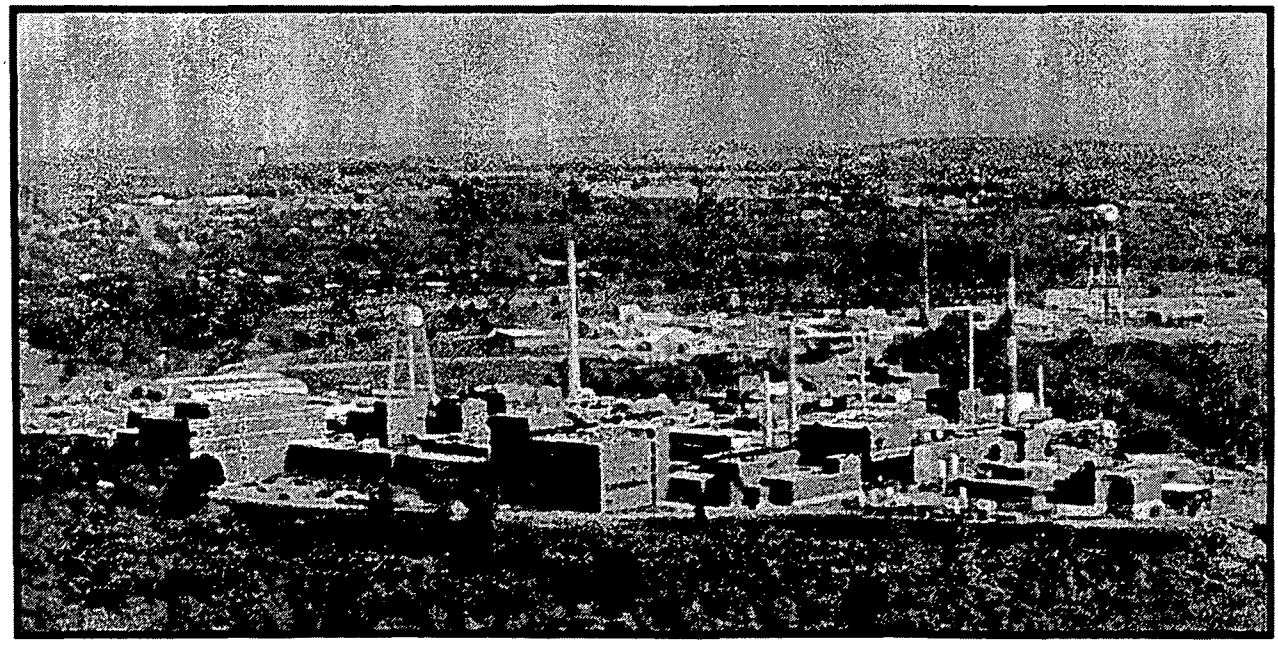
cc: T. Fischer, USEPA, (1) w/attachments
B. Nickel, OEPA, (4) w/attachments
R. Vandegrift, ODH, (1) w/attachments
J. Webb, ODH (1) w/attachments
M. Wojciechowski, Tetra Tech, (1) w/attach
G. Gorsuch, DOE/MCP, (1) w/attachments
R. Tormey, DOE/OH, (1) w/attachments
F. Bullock, MMCIC, (3) w/attachments
Public Reading Room, (1) w/attachments
C. Kline, CH2M Hill, (1) w/attachments
S. Parfitt, CH2M Hill, (1) w/attachmemts
ER Records, CH2M Hill, (1) w/attachs
DCC (1) w/attachments
J. Lehew, CH2M Hill, w/o attachments
J. Stickelman, CH2M Hill, w/o attachments
D. Rakel, CH2M Hill, w/o attachments
K. Armstrong, CH2M Hill, w/o attachments
D. Kramer, CH2M Hill, w/o attachments
MOAT Coordinator
S. Barr, w/o attachments
M. McDougal, w/o attachments
file

Environmental
Restoration
Program

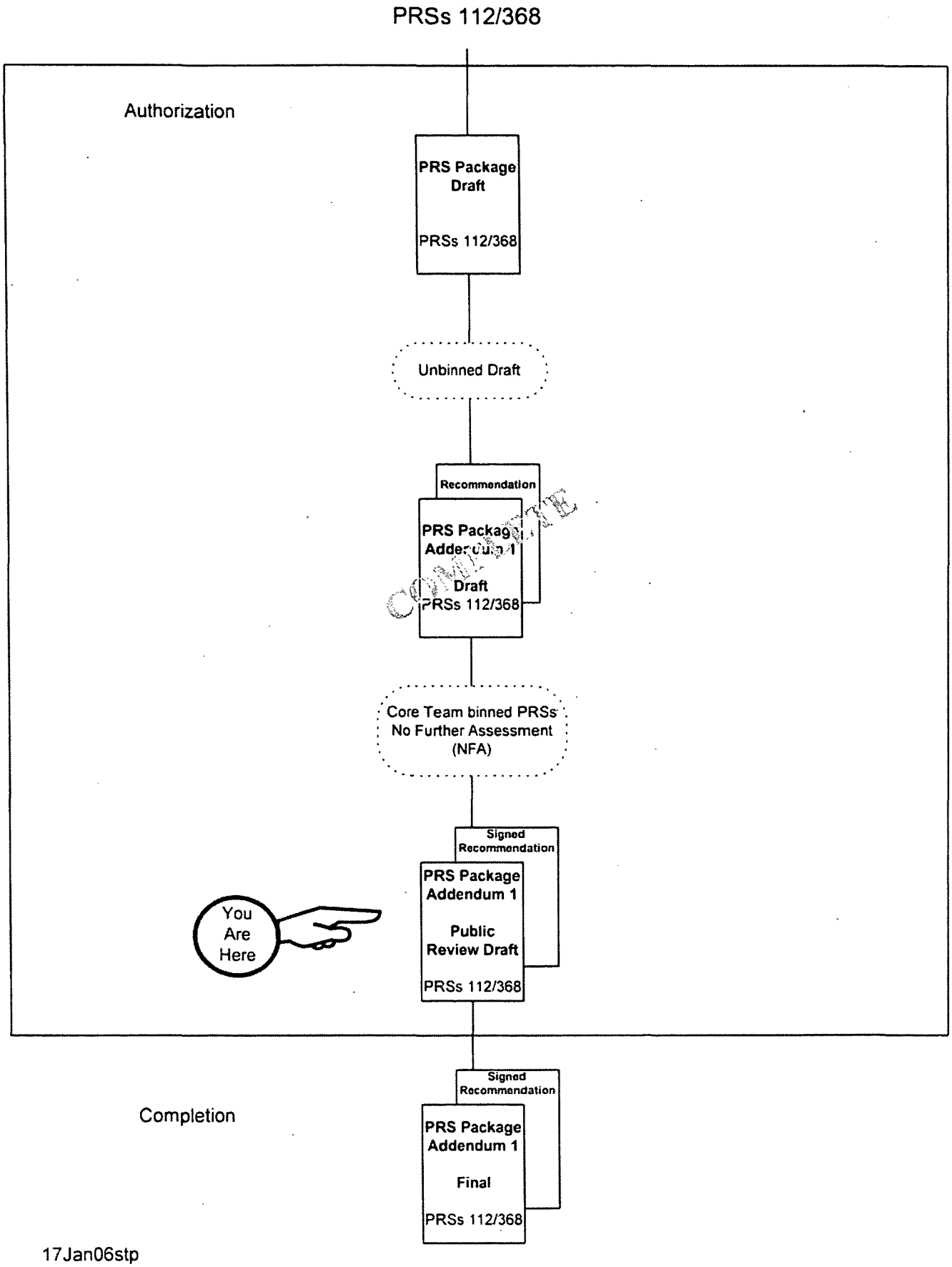
Miamisburg Closure Project
Potential Release Site Package

PRS 112/368
Addendum 1

Public Review Draft
January 2006



PRSs 112/368



17Jan06stp

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MIAMISBURG CLOSURE PROJECT

POTENTIAL RELEASE SITE PACKAGES

The following documents are available (January 23, 2006) for public information in the CERCLA Public Reading Room, 955 Mound Rd., Miamisburg, Ohio.

PRS 112 & 368 Addendum 1: (Paint Shop and Soil Contamination near Paint Shop)
PRS 317: (Ventilation Hoods)
PRS 442: (Soil beneath Asphalt Lined Pond)

Questions can be referred to Paul Lucas at (513) 246-0071

U.S. Department of Energy
U.S. Environmental Protection Agency
Ohio Environmental Protection Agency

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PRS HISTORY:

PRS 112 was identified as a potential release site (PRS) due to results associated with elevated lead soil levels found during the OU 3 Limited Field Investigation near the former Paint Shop (PS) Building [1]. Sample location MND33-0062 is associated with this elevated lead result. PRS 368 was identified as a PRS due to results of volatile organic compounds (VOCs) detected during the OU 2 Soil Vapor Reconnaissance study in the area of the former PS Building [1]. Sample locations 4014 and 4015 are associated with the detected volatile organic results. Suspected leaks, spills, or dumping of paints and paint wastes, around PS Building, were documented in a Resource Conservation and Recovery Act (RCRA) Facility visual inspection and assessment in 1988 which also contributed to identifying this area as a potential release site [1]. Figure 1 shows the location of PRSs 112 and 368, the former PS Building, soil sample locations in the vicinity, adjacent former historic buildings, and any additional PRS points in the area. Table 1 below further describes PRS points in the proximity of PRS 112/368 and the former PS Building.

Table 1: PRSs adjacent to PRS 112/368 and the former PS Building:

PRS	CERCLA or Bldg. Related	Binning Status	Description of PRS
118	Building	NFA - 2/2001	M Building Soils
243	CERCLA	NFA - 5/1996	VOC Potential Hot Spot Location 1064
254	Building	RA - 8/2004	Building T - Stack east
411	CERCLA	NFA - 3/2005	Soil contamination - asphalt roadway

Removal of the PS Building slab occurred the week of April 25, 2005 with work performed under the P Building Demolition Work Plan [2]. No spills or releases requiring an occurrence report were ever reported for PS Building [3]. A radiological survey to characterize the concrete debris from PS Building slab was performed on April 25, 2005; results of the survey are documented in Radiological Survey Data Sheet 05-TF-0179. The results from swipe and direct surveys of 15 data points taken from the concrete debris pile were below DOE Order 5400.5 release criteria (Attachment 1, page 1-4). Based on these results, the concrete debris pile was taken to the Stoney Hollow Landfill, Dayton Ohio for disposal [4]. The slab was comprised of 6-8 inches of reinforced concrete [4]. A photograph taken of the PS Building slab after demolition illustrates that the PS Building slab contained no structural cracks and appeared to be completely intact (see Figure 2). Demolition personnel did not detect any odors or observe any staining or discoloration of soils in the area [4]. The area was backfilled with six inches of fill material obtained from the Mound Spoils Area [4].

ANALYTICAL INFORMATION:

Radiological Soil Sampling

Radiological sampling for tritium was conducted at locations MND33-0062 and MND33-0063 and both were non-detect (Attachment 2, pages 16 & 18 of 18). A surface soil sample for Plutonium-238 and Thorium-232 was taken at location SCR380 located approximately 20 feet west of the PS Building slab; both results were non-detect (Attachment 2, page 18 of 18). Location C0253 located approximately 15 feet to the northeast of the PS Building slab was sampled for Plutonium-238 with a result of 0.11 pCi/g and Thorium-232 was non-detect (Attachment 2, pages 1 of 5, and 1 of 18).

Radiological sampling locations identified as M-71 and M-80 located northwest and west of the PS Building slab were part of the Building M soils characterization (also referred to as PRS 118) and binned NFA in February 2001.

Radiological sampling locations identified as 411-NW-001 and 411-M-002 were verification samples collected as part of the PRS 411 remediation and binned NFA March 2005.

Chemical Soil Sampling

Sample location MND33-0062 is associated with the elevated lead result that identified PRS 112. The sample and field duplicate results were 148.0 and 48.3 mg/kg respectively, and do not exceed the USEPA Region 9, Preliminary Remediation Goals (PRGs) of 800.0 mg/kg for soil, via an industrial direct contact exposure pathway. Results were compared to the PRG because no toxicity value has been established for lead.

Arsenic was detected at locations MND33-0062-1001 at 2.0 mg/kg from the 0-2 foot interval and MND33-0063-0001 at 5.50 mg/kg from the 0.5-foot interval (Attachment 2, pages 3 & 4 of 5). The values are above the 10^{-6} Risk-Based Guideline Value of 1.99 mg/kg but below the OU 9 Soil Background Value of 8.6 mg/kg and below the Risk Based Cleanup Objective of 28.5 mg/kg.

Sample locations 4014 and 4015 collected during the OU 2 Soil Vapor Reconnaissance study are associated with the volatile organic results that identified PRS 368. One result for cis-1, 2-Dichloroethene at sample location 4014 exceeded the calculated acceptable soil gas level of 5,000 ppb (Attachment 3, page 53 of 58). The result for cis-1, 2-Dichloroethene was 5,808 ppb at 2.5 feet below ground surface. All other soil vapor analytical results at sample locations 4014 and 4015 were below the calculated acceptable soil gas levels (Attachment 3 page 36 & 53 of 58). The calculated acceptable soil gas level concentrations were developed to ascertain the potential of volatiles to leach into groundwater. Soil vapor gas readings were originally utilized in the PRS screening process to identify an area that might present a potential contamination problem for volatile organics (Attachment 3, page 52 of 58). However direct chemical analysis is more indicative of potential surface and subsurface volatile

contamination as represented by samples collected during the OU 3 Limited Field Investigation. Volatile organics were sampled at MND33-0062 to a depth of 11 feet below ground surface and at MND33-0063 to a depth of 0.5 feet below ground surface and all results were non-detect (Attachment 2, pages 12-16 & 17-18 of 18).

REFERENCES:

[1] Mound Plant Potential Release Site Package, PRS #112/368, page 3, 20, 22 & 36.

[2] Miamisburg Closure Project Building Data Package, P Building, Final April 2005, Appendix O, Work Plan, page 72 of 115.

[3] Mound Plant Building Data Package, PS Building, Final March 1999, page 9.

[4] Personal communication, Jim Harvey, June 2005.

ATTACHMENTS:

1.) Radiological Survey Data Sheet #05-TF-0179
2.) Historic Soil Sampling Information
3.) Mound Plant Potential Release Site Package, PRS #112/368

PREPARED BY:

Stephanie Parfitt, CH2MHill, CERCLA documents

MIAMISBURG CLOSURE PROJECT
PRS 112/368

RECOMMENDATION:

PRS 112 was identified as a potential release site (PRS) due to results associated with elevated lead soil levels found during the OU 3 Limited Field Investigation near the former PS Building [1]. Sample location MND33-0062 is associated with the elevated lead result but the result does not exceed the 10^{-6} Risk-Based Guideline Value. PRS 368 was identified as a PRS due to results of volatile organic compounds (VOCs) detected during the OU 2 Soil Vapor Reconnaissance study in the area of the former PS Building [1]. Sample locations 4014 and 4015 are associated with the detected volatile organics. One result for cis-1, 2-Dichloroethene exceeded the calculated acceptable soil gas level. The calculated acceptable soil gas level concentrations are used to assess the potential of leaching into groundwater based on results obtained from soil gas readings. Soil vapor gas readings were originally utilized in the PRS screening process to identify an area that might present a potential contamination problem for volatile organics. However direct chemical analysis is more indicative of potential surface and subsurface volatile contamination as represented by samples collected during the OU 3 Limited Field Investigation. Volatile organics were sampled at MND33-0062 to a depth of 11 feet below ground surface and at MND33-0063 to a depth of 0.5 feet below ground surface and all results were non-detect. Suspected leaks, spills, or dumping of paints and paint wastes, around the former PS Building, was documented in a RCRA Facility visual inspection and assessment in 1988 which also contributed to identifying this area as a potential release site [1]. No spills or releases requiring an occurrence report were ever reported for PS Building [2]. Removal of the PS Building slab occurred the week of April 25, 2005. A radiological survey (RSDS 05-TF-0179) comprised of swipe and direct surveys of 15 data points taken from the concrete debris pile were below DOE Order 5400.5 and Mound 2000 Work Plan release criteria (Attachment 1, pages 1-4). Demolition personnel did not detect any odors or observe any staining or discoloration of the soil in the area while removing the concrete slab.

Therefore, the Core Team recommends No Further Assessment.

CONCURRENCE:

DOE/MCP: Paul Lucas 11/17/05
Paul Lucas, Remedial Project Manager (date)

USEPA: Timothy J. Fischer 11/28/05
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: B. K. Nickel 11/17/05
Brian K. Nickel, Project Manager (date)

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Figure 1: Historic Sample Locations in the Area of PRS 112/368

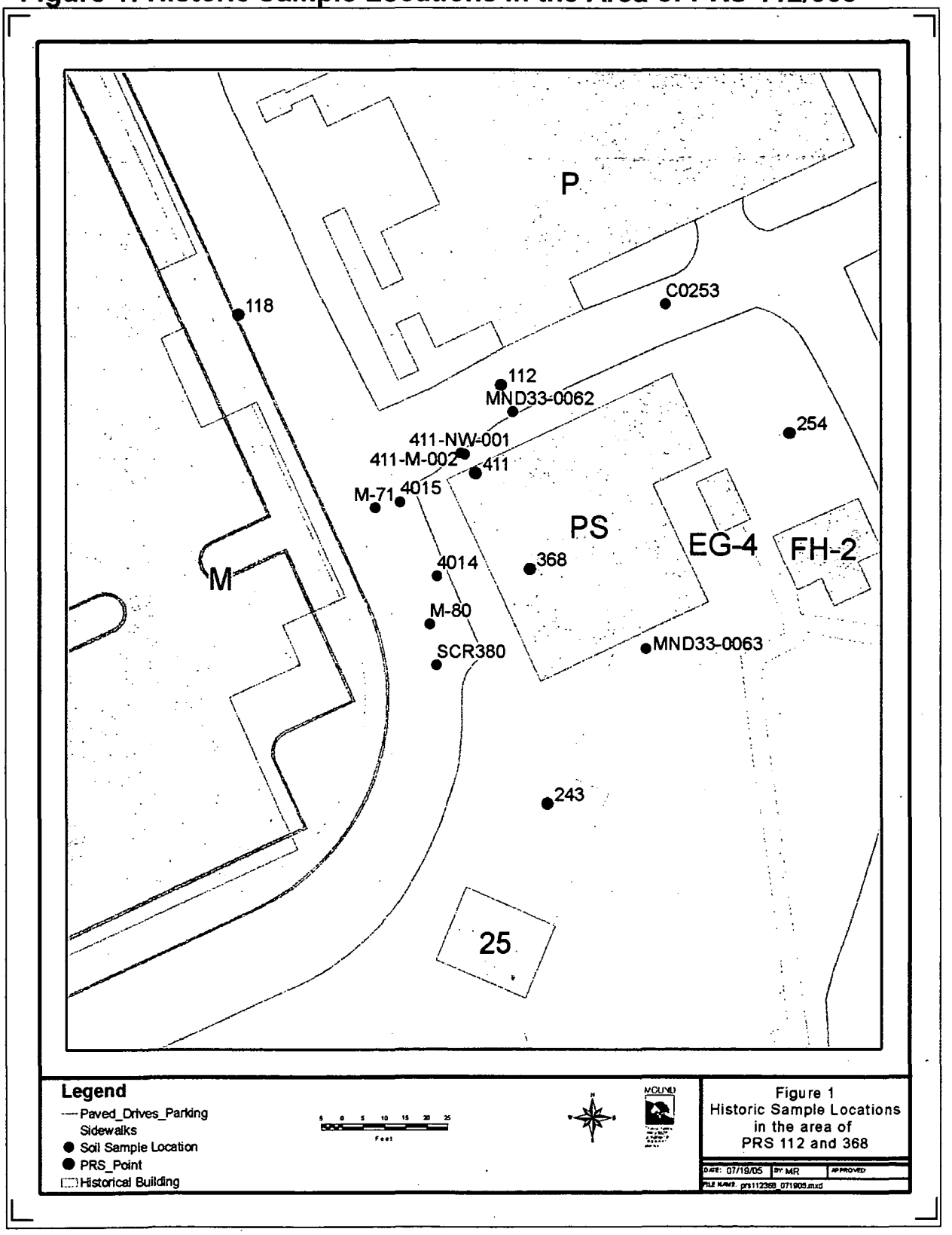
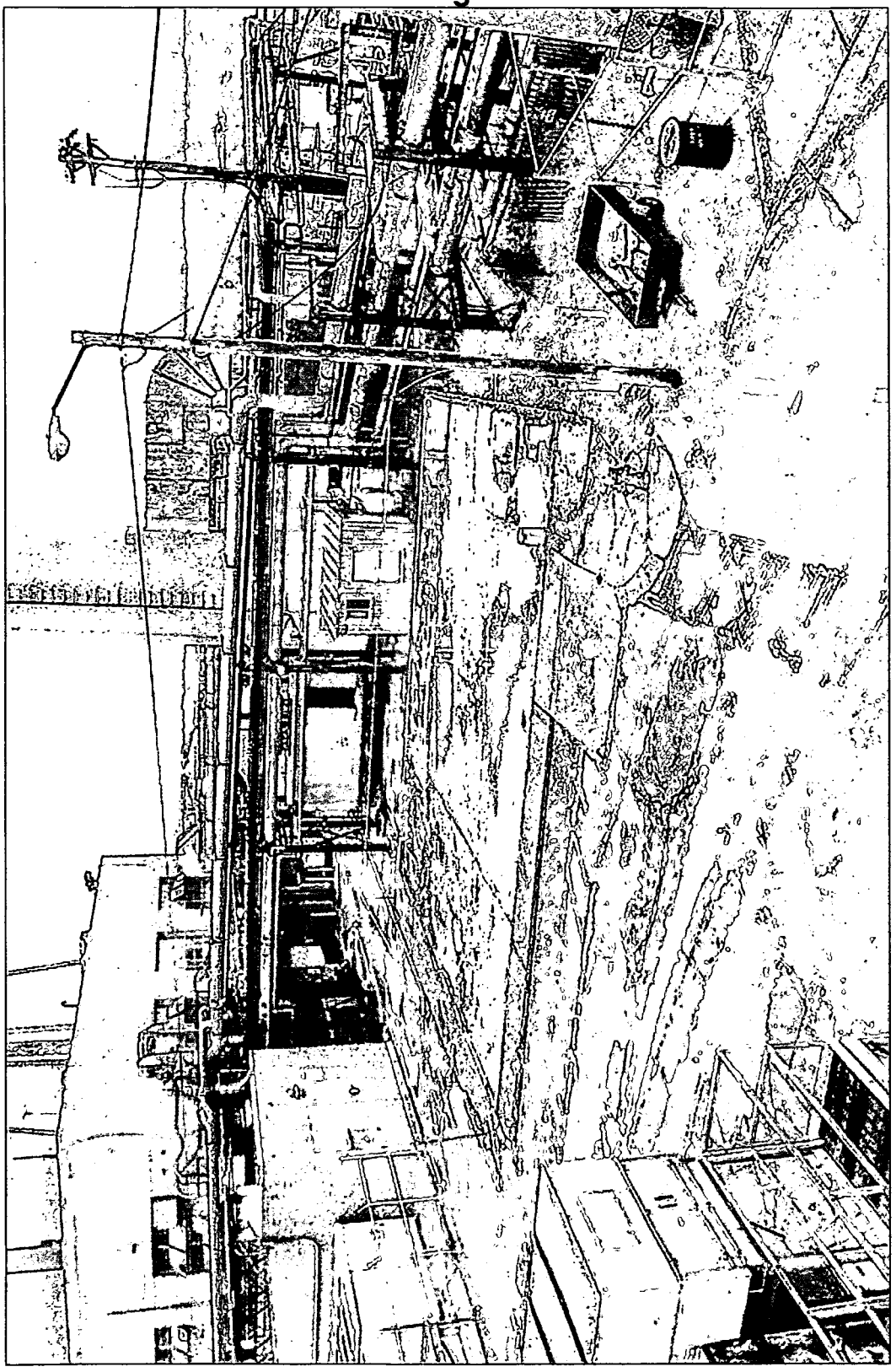


Figure 2: Former Paint Shop (PS) slab after demolition of building



ATTACHMENT 1

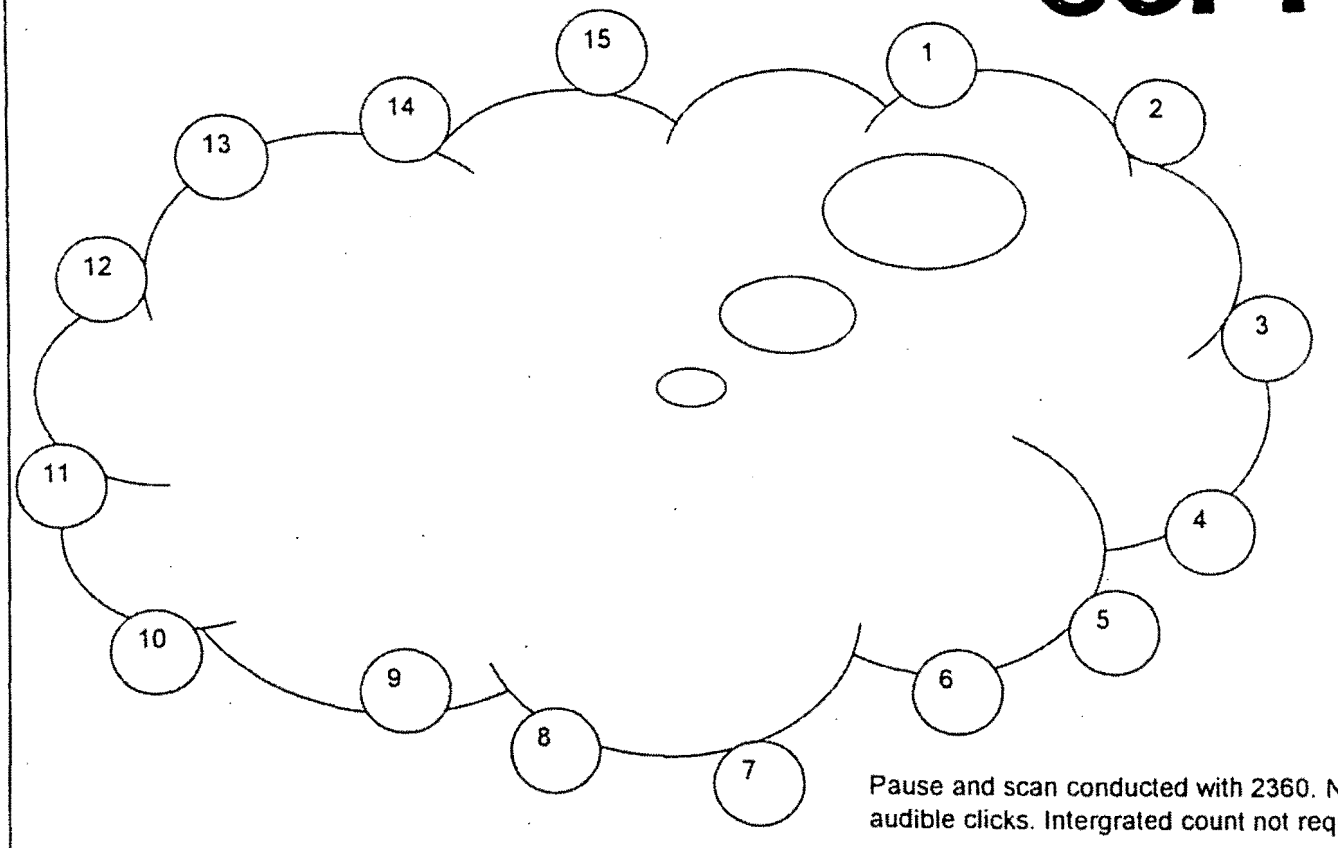
RADIOLOGICAL SURVEY DATA SHEET
#05-TF-0179

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM)	SURVEY NO.
Across from Powehouse	05-tf-0179
PURPOSE:	RWP NO.
	N/A
Characterization survey of concrete debris from paint shop pad	DATE: 4/25/2005
	TIME: 14:00

MAP / DRAWING

COPY



Pause and scan conducted with 2360. No audible clicks. Intergrated count not required

<100/ alpha

<5K/ beta

2360 Bkg. 3 Alpha
145 Beta
DL 2.2 Alpha
20 Beta

LEGEND:
= mrem/hr (γ) whole body
#E = mrem/hr (β+η+γ) extremity on contact
K = factor of 1000
— · — · — · · = radiological boundary

- mrem/hr neutron
- swipe number
- air sample number
#/α or /β - direct contamination measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
2360/4389	5765/5802	3/1/2006
	NA	

[redacted]

HP#	Date
7176 7836	4/26/2005
[redacted]	
HP#	Date
HP#	Date
7707	5-3-05
[redacted]	

Attachment 1: 1 of 4

Survey No. 05-TF-0179

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm^2)				
Sample #	β/γ	Alpha	Tritium	Comments
1	SEE ATTACHED SHEET			Paint shop pad pad concrete debris pile
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
	N/A			

Removable Contamination				
Swipes (dpm/100cm^2)				
Sample #	β/γ	Alpha	Tritium	Comments
		N/A		

Comments: Smears field check with 2360 prior to sending counting lab

NOTES:

1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

ML-9620A (4-98)

Attachment 1: 2 of 4

Smear Analysis

Unit Type: LB4100/W
Counting Unit ID: Green
Data file name: SMEAR070
Batch Ended: 4/25/05 14:19
Cal. Due Date: 11/17/05
Serial Number: 26966-3

Batch ID: 05-TF-0179 WORLEY (15) 04/25/05 TAS

Detector ID	Sample ID	Alpha Activity			Beta Activity		
		DPM	σ	flags	DPM	σ	flags
A1	1	1.74	2.23		2.12	2.62	
A2	2	0.00	2.00		0.00	1.18	
A3	3	0.00	2.32		3.23	2.52	
A4	4	0.00	2.10		0.00	1.22	
B1	5	0.00	1.92		1.73	2.07	
B2	6	0.00	1.87		0.00	1.59	
B3	7	0.00	2.24		2.95	2.66	
B4	8	0.00	1.96		0.00	1.21	
C1	9	0.00	2.05		0.00	1.23	
C2	10	0.00	1.91		0.00	1.13	
C3	11	1.73	2.06		0.00	1.22	
C4	12	0.00	1.95		0.00	1.12	
D1	13	0.00	2.08		2.79	2.50	
D2	14	0.00	2.15		0.00	1.19	
D3	15	1.72	2.10		0.02	1.75	

gw 4.26.05 gw 4-26-05

Attachment 1, 3 of 4

3 of 4

 4-26-05

AC

Time: 2.00
Data Mode: DPM Nuclide: SMGLS02 Quench Set: SMGLS02
Background Subtract: 1st Vial

	LL	UL	LCR	2S%	BKG
Region A:	0.5	- 18.6	0	0.0	7.24
Region B:	2.0	- 18.6	0	0.0	7.19
Region C:	40.0	- 2000	0	0.0	11.50

Quench Indicator: tSIE/AEC
Ext Std Terminator: Count
05-TF-0179 WORLEY (15) 04/25/05 TAS
Luminescence Correction On
Coincidence Time(ns): 18
Delay Before Burst(ns): Normal
Protocol Data Filename: c:\data\PROT3.DAT
Count Data Filename: c:\data\SDATA3.DAT
Spectrum Data Drive & Path: c:\data

S#	TIME	CPMA	CPMB	CPMC	LUM	tSIE	DPM1	2Sigma	FLAG
-1	10.00	7.24	7.19	11.50	5	600.69		0.00	B
0	2.00	516.36	482.78	0.00	0	570.43	1016.28	100.17	
1	2.00	3.76	3.00	0.00	5	617.67	7.10	9.47	
2	2.00	0.00	0.00	0.00	0	635.73	0.00	0.00	
3	2.00	0.26	0.00	0.00	0	602.99	0.49	8.12	
4	2.00	3.76	3.10	0.00	5	562.49	7.44	9.92	
5	2.00	2.19	1.96	0.00	0	605.15	4.19	8.94	
6	2.00	0.00	0.00	1.00	6	580.83	0.00	0.00	
7	2.00	0.00	0.00	0.00	0	565.73	0.00	0.00	
8	2.00	2.76	2.61	0.00	0	560.48	5.47	9.52	
9	2.00	2.05	1.67	0.00	0	566.79	4.04	9.17	
10	2.00	0.00	0.00	0.00	0	570.07	0.00	0.00	
11	2.00	0.00	0.00	0.00	0	587.51	0.00	0.00	
12	2.00	0.76	0.10	0.00	0	565.61	1.49	8.61	
13	2.00	3.26	3.04	0.00	0	599.93	6.25	9.41	
14	2.00	1.26	1.17	0.00	6	526.52	2.57	9.14	
15	2.00	1.26	1.53	0.00	28	500.56	2.63	11.08	

PW 4-26-05

Attachment 1: 4 of 4

ATTACHMENT 2

HISTORIC SOIL SAMPLING INFORMATION

Previous Sampling Results All Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Value Units	Detection Limit	Chem Class	Start Depth	End Depth	CAS Number	Project Code	Lab Qualifier	Data Qualifier	Media	Comment
4014	4014-0002.5	Borehole	19940421	1,1,1-Trichloroethane	5,263.20	ppb	0.00	ORVOA	2.5	2.5	71-55-6	SVROU2			Other	0
4014	4014-0002.5	Borehole	19940421	1,1-Dichloroethane	12,098.80	ppb	0.00	ORVOA	2.5	2.5	75-34-3	SVROU2			Other	0
4014	4014-0002.5	Borehole	19940421	Trichlorofluoromethane	11,250.00	ppb	0.00	ORVOA	2.5	2.5	75-69-4	SVROU2			Other	0
4014	4014-0002.5	Borehole	19940421	Toluene	789.50	ppb	0.00	ORVOA	2.5	2.5	108-88-3	SVROU2			Other	0
4014	4014-0002.5	Borehole	19940421	1,2-cis-Dichloroethene	5,808.10	ppb	0.00	ORVOA	2.5	2.5	156-59-2	SVROU2			Other	0
4014	4014-0002.5	Borehole	19940421	1,2-trans-Dichloroethene	6,818.20	ppb	0.00	ORVOA	2.5	2.5	156-60-5	SVROU2			Other	0
4014	4014-0005.0	Borehole	19940421	Trichlorofluoromethane	5,892.90	ppb	0.00	ORVOA	5.0	5.0	75-69-4	SVROU2			Other	0
4014	4014-0005.0	Borehole	19940421	Total VOC's	8,394.50	ppb	0.00	ORVOA	5.0	5.0	TVOC	SVROU2			Other	
4014	4014-0002.5	Borehole	19940421	Total VOC's	42,027.70	ppb	0.00	ORVOA	2.5	2.5	TVOC	SVROU2			Other	
4015	4015-0009.2	Borehole	19940425	1,1-Dichloroethane	1,975.30	ppb	0.00	ORVOA	9.2	9.2	75-34-3	SVROU2			Other	0
4015	4015-0009.2	Borehole	19940425	Trichlorofluoromethane	8,571.40	ppb	0.00	ORVOA	9.2	9.2	75-69-4	SVROU2			Other	0
4015	4015-0005.0	Borehole	19940425	Trichlorofluoromethane	3,571.40	ppb	0.00	ORVOA	5.0	5.0	75-69-4	SVROU2			Other	0
4015	4015-0007.5	Borehole	19940425	Trichlorofluoromethane	15,892.90	ppb	0.00	ORVOA	7.5	7.5	75-69-4	SVROU2			Other	0
4015	4015-0007.5	Borehole	19940425	1,2-cis-Dichloroethene	2,020.20	ppb	0.00	ORVOA	7.5	7.5	156-59-2	SVROU2			Other	0
4015	4015-0007.5	Borehole	19940425	1,1,1-Trichloroethane	2,280.70	ppb	0.00	ORVOA	7.5	7.5	71-55-6	SVROU2			Other	0
4015	4015-0007.5	Borehole	19940425	1,1-Dichloroethane	3,456.80	ppb	0.00	ORVOA	7.5	7.5	75-34-3	SVROU2			Other	0
4015	4015-0005.0	Borehole	19940425	Total VOC's	5,844.40	ppb	0.00	ORVOA	5.0	5.0	TVOC	SVROU2			Other	
4015	4015-0007.5	Borehole	19940425	Total VOC's	26,449.60	ppb	0.00	ORVOA	7.5	7.5	TVOC	SVROU2			Other	
4015	4015-0009.2	Borehole	19940425	Total VOC's	12,566.90	ppb	0.00	ORVOA	9.2	9.2	TVOC	SVROU2			Other	
411-M-002	411-M-002	Excavation	20040902	Thorium-232	0.64	pCi/g	0.15	RAD	0.0	1.0	7440-29-1	PRS411V			Soil	1
411-M-002	411-M-002	Excavation	20040902	Radium-226	1.57	pCi/g	0.81	RAD	0.0	1.0	13982-63-3	PRS411V			Soil	1
411-M-002	411-M-002	Excavation	20040902	Lead-210	0.93	pCi/g	0.74	RAD	0.0	1.0	14255-04-0	PRS411V			Soil	1
411-NW-001	411-NW-001	Excavation	20040902	Cesium-137	0.07	pCi/g	0.04	RAD	0.0	1.0	10045-97-3	PRS411V			Soil	0
411-NW-001	411-NW-001	Excavation	20040902	Thorium-232	0.48	pCi/g	0.18	RAD	0.0	1.0	7440-29-1	PRS411V			Soil	1
411-NW-001	411-NW-001	Excavation	20040902	Radium-226	1.36	pCi/g	0.74	RAD	0.0	1.0	13982-63-3	PRS411V			Soil	1
C0253	8396	Borehole	19841201	Plutonium-238	0.11	pCi/g	0.01	RAD	3.0	3.0	13981-16-3	RSS			Soil	0
M-71	000128	Surface Location	20000302	Lead-210	0.42	pCi/g	0.14	RAD	0.0	2.0	14255-04-0	MBLDGDDC			Soil	0
M-71	000128	Surface Location	20000302	Thorium-232	0.23	pCi/g	0.03	RAD	0.0	2.0	7440-29-1	MBLDGDDC			Soil	1
M-71	000128	Surface Location	20000302	Uranium-238	0.78	pCi/g	0.15	RAD	0.0	2.0	7440-61-1	MBLDGDDC			Soil	1
M-71	000128	Surface Location	20000302	Radium-226	0.94	pCi/g	0.19	RAD	0.0	2.0	13982-63-3	MBLDGDDC			Soil	1
M-80	000126	Surface Location	20000302	Cadmium	0.11	mg/kg	0.00	INORG	0.0	4.0	7440-43-9	MBLDGDDC	B		Soil	0
M-80	000126	Surface Location	20000302	Cobalt	8.00	mg/kg	0.00	INORG	0.0	4.0	7440-48-4	MBLDGDDC	B		Soil	0
M-80	000126	Surface Location	20000302	Lithium	20.20	mg/kg	0.00	INORG	0.0	4.0	7439-93-2	MBLDGDDC	B		Soil	0
M-80	000126	Surface Location	20000302	Calcium	143,000.00	mg/kg	0.00	INORG	0.0	4.0	7440-70-2	MBLDGDDC			Soil	0
M-80	000126	Surface Location	20000302	Chromium	13.00	mg/kg	0.00	INORG	0.0	4.0	7440-47-3	MBLDGDDC			Soil	0
M-80	000126	Surface Location	20000302	Magnesium	12,800.00	mg/kg	0.00	INORG	0.0	4.0	7439-95-4	MBLDGDDC			Soil	0
M-80	000126	Surface Location	20000302	Manganese	594.00	mg/kg	0.00	INORG	0.0	4.0	7439-96-5	MBLDGDDC			Soil	0
M-80	000126	Surface Location	20000302	Barium	70.70	mg/kg	0.00	INORG	0.0	4.0	7440-39-3	MBLDGDDC			Soil	0
M-80	000126	Surface Location	20000302	Beryllium	0.63	mg/kg	0.00	INORG	0.0	4.0	7440-41-7	MBLDGDDC			Soil	0
M-80	000126	Surface Location	20000302	Iron	22,500.00	mg/kg	0.00	INORG	0.0	4.0	7439-89-6	MBLDGDDC			Soil	0
M-80	000126	Surface Location	20000302	Lead	10.00	mg/kg	0.00	INORG	0.0	4.0	7439-92-1	MBLDGDDC			Soil	0
M-80	000126	Surface Location	20000302	Nickel	19.10	mg/kg	0.00	INORG	0.0	4.0	7440-02-0	MBLDGDDC			Soil	0
M-80	000126	Surface Location	20000302	Zinc	43.20	mg/kg	0.00	INORG	0.0	4.0	7440-66-6	MBLDGDDC			Soil	0
M-80	000126	Surface Location	20000302	Aluminum	11,100.00	mg/kg	0.00	INORG	0.0	4.0	7429-90-5	MBLDGDDC			Soil	0
M-80	000126	Surface Location	20000302	Vanadium	16.20	mg/kg	0.00	INORG	0.0	4.0	7440-62-2	MBLDGDDC			Soil	0
M-80	000126	Surface Location	20000302	Arsenic	5.40	mg/kg	0.00	INORG	0.0	4.0	7440-38-2	MBLDGDDC			Soil	1
M-80	000126	Surface Location	20000302	Sodium	784.00	mg/kg	0.00	INORG	0.0	4.0	7440-23-5	MBLDGDDC	B		Soil	2
M-80	000126	Surface Location	20000302	Copper	39.50	mg/kg	0.00	INORG	0.0	4.0	7440-50-8	MBLDGDDC			Soil	2
M-80	000126	Surface Location	20000302	Potassium	2,340.00	mg/kg	0.00	INORG	0.0	4.0	7440-09-7	MBLDGDDC			Soil	2
M-80	000126	Surface Location	20000302	Di-n-butyl Phthalate	23.00	ug/kg	0.00	ORSVO	0.0	4.0	84-74-2	MBLDGDDC	J		Soil	0
M-80	000126	Surface Location	20000302	Fluoranthene	76.00	ug/kg	0.00	ORSVO	0.0	4.0	206-44-0	MBLDGDDC	J		Soil	0
M-80	000126	Surface Location	20000302	Benzo(a)anthracene	34.00	ug/kg	0.00	ORSVO	0.0	4.0	56-55-3	MBLDGDDC	J		Soil	0
M-80	000126	Surface Location	20000302	Chrysene	42.00	ug/kg	0.00	ORSVO	0.0	4.0	218-01-9	MBLDGDDC	J		Soil	0
M-80	000126	Surface Location	20000302	Di-n-octyl Phthalate	76.00	ug/kg	0.00	ORSVO	0.0	4.0	117-84-0	MBLDGDDC	J		Soil	0
M-80	000126	Surface Location	20000302	Benzo(k)fluoranthene	28.00	ug/kg	0.00	ORSVO	0.0	4.0	207-08-9	MBLDGDDC	J		Soil	0
M-80	000126	Surface Location	20000302	Benzo(a)pyrene	35.00	ug/kg	0.00	ORSVO	0.0	4.0	50-32-8	MBLDGDDC	J		Soil	0

Previous Sampling Results All Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Value Units	Detection Limit	Chem Class	Start Depth	End Depth	CAS Number	Project Code	Lab Qualifier	Data Qualifier	Media	Comment
M-80	000126	Surface Location	20000302	Benzo(b)fluoranthene	29.00	ug/kg	0.00	ORSVO	0.0	4.0	205-99-2	MBLDGDDC	J		Soil	0
M-80	000126	Surface Location	20000302	Pyrene	65.00	ug/kg	0.00	ORSVO	0.0	4.0	129-00-0	MBLDGDDC	J		Soil	0
M-80	000126	Surface Location	20000302	Benzo(g,h,i)perylene	26.00	ug/kg	0.00	ORSVO	0.0	4.0	191-24-2	MBLDGDDC	J		Soil	
M-80	000126	Surface Location	20000302	Phenanthrene	32.00	ug/kg	0.00	ORSVO	0.0	4.0	85-01-8	MBLDGDDC	J		Soil	
M-80	000126	Surface Location	20000302	Acetone	30.00	ug/kg	0.00	ORVOA	0.0	4.0	67-64-1	MBLDGDDC	B		Soil	0
M-80	000126	Surface Location	20000302	Dichloromethane (Methylene Chloride)	16.00	ug/kg	0.00	ORVOA	0.0	4.0	75-09-2	MBLDGDDC	B		Soil	0
M-80	000126	Surface Location	20000302	Xylenes, Total	11.00	ug/kg	0.00	ORVOA	0.0	4.0	1330-20-7	MBLDGDDC	J		Soil	0
M-80	000126	Surface Location	20000302	2-Butanone	6.00	ug/kg	0.00	ORVOA	0.0	4.0	78-93-3	MBLDGDDC	J		Soil	0
M-80	000126	Surface Location	20000302	Ethylbenzene	2.00	ug/kg	0.00	ORVOA	0.0	4.0	100-41-4	MBLDGDDC	J		Soil	0
M-80	000126	Surface Location	20000302	Toluene	2.00	ug/kg	0.00	ORVOA	0.0	4.0	108-88-3	MBLDGDDC	J		Soil	0
M-80	000126	Surface Location	20000302	Thorium-232	0.84	pCi/g	0.39	RAD	0.0	4.0	7440-29-1	MBLDGDDC			Soil	1
M-80	000127	Surface Location	20000302	Thorium-232	1.25	pCi/g	0.54	RAD	0.0	5.0	7440-29-1	MBLDGDDC			Soil	1
M-80	000127	Surface Location	20000302	Cobalt-60	0.11	pCi/g	0.04	RAD	0.0	5.0	10198-40-0	MBLDGDDC			Soil	1,3
M-80	000126	Surface Location	20000302	Radium-226	3.05	pCi/g	2.10	RAD	0.0	4.0	13982-63-3	MBLDGDDC			Soil	1,2,3,4
MND33-0062	0062-0002	Borehole	19911119	Lead	6.40	mg/kg	0.20	INORG	3.0	5.0	7439-92-1	MND33	*	J	Soil	0
MND33-0062	0062-0002	Borehole	19911119	Copper	15.30	mg/kg	1.00	INORG	3.0	5.0	7440-50-8	MND33	*	J	Soil	0
MND33-0062	0062-1002	Borehole	19911119	Copper	13.70	mg/kg	1.00	INORG	3.0	5.0	7440-50-8	MND33	*	J	Soil	0
MND33-0062	0062-0003	Borehole	19911119	Lead	5.30	mg/kg	0.20	INORG	8.0	11.0	7439-92-1	MND33	*	J	Soil	0
MND33-0062	0062-0003	Borehole	19911119	Copper	13.90	mg/kg	1.00	INORG	8.0	11.0	7440-50-8	MND33	*	J	Soil	0
MND33-0062	0062-1002	Borehole	19911119	Lead	6.20	mg/kg	0.20	INORG	3.0	5.0	7439-92-1	MND33	*	J	Soil	0
MND33-0062	0062-0002	Borehole	19911119	Magnesium	5,040.00	mg/kg	5.00	INORG	3.0	5.0	7439-95-4	MND33	*		Soil	0
MND33-0062	0062-0001	Borehole	19911119	Copper	19.60	mg/kg	1.00	INORG	0.0	2.0	7440-50-8	MND33	*		Soil	0
MND33-0062	0062-0003	Borehole	19911119	Magnesium	16,400.00	mg/kg	0.50	INORG	8.0	11.0	7439-95-4	MND33	*		Soil	0
MND33-0062	0062-1001	Borehole	19911119	Copper	21.90	mg/kg	1.00	INORG	0.0	2.0	7440-50-8	MND33	*		Soil	0
MND33-0062	0062-1002	Borehole	19911119	Magnesium	4,600.00	mg/kg	5.00	INORG	3.0	5.0	7439-95-4	MND33	*		Soil	0
MND33-0062	0062-0001	Borehole	19911119	Beryllium	0.69	mg/kg	0.20	INORG	0.0	2.0	7440-41-7	MND33	B		Soil	0
MND33-0062	0062-0003	Borehole	19911119	Beryllium	0.66	mg/kg	0.20	INORG	8.0	11.0	7440-41-7	MND33	B		Soil	0
MND33-0062	0062-1001	Borehole	19911119	Beryllium	0.67	mg/kg	0.20	INORG	0.0	2.0	7440-41-7	MND33	B		Soil	0
MND33-0062	0062-0002	Borehole	19911119	Beryllium	0.74	mg/kg	0.20	INORG	3.0	5.0	7440-41-7	MND33	B		Soil	0
MND33-0062	0062-1002	Borehole	19911119	Beryllium	0.66	mg/kg	0.20	INORG	3.0	5.0	7440-41-7	MND33	B		Soil	0
MND33-0062	0062-0001	Borehole	19911119	Iron	9,080.00	mg/kg	1.00	INORG	0.0	2.0	7439-89-6	MND33		J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Vanadium	22.70	mg/kg	1.00	INORG	0.0	2.0	7440-62-2	MND33		J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Zinc	60.40	mg/kg	0.50	INORG	0.0	2.0	7440-66-6	MND33		J	Soil	0
MND33-0062	0062-0002	Borehole	19911119	Iron	13,400.00	mg/kg	1.00	INORG	3.0	5.0	7439-89-6	MND33		J	Soil	0
MND33-0062	0062-0002	Borehole	19911119	Cobalt	7.90	mg/kg	1.00	INORG	3.0	5.0	7440-48-4	MND33		J	Soil	0
MND33-0062	0062-0003	Borehole	19911119	Aluminum	4,590.00	mg/kg	6.00	INORG	8.0	11.0	7429-90-5	MND33		J	Soil	0
MND33-0062	0062-0003	Borehole	19911119	Iron	13,600.00	mg/kg	1.00	INORG	8.0	11.0	7439-89-6	MND33		J	Soil	0
MND33-0062	0062-0003	Borehole	19911119	Nickel	14.30	mg/kg	2.00	INORG	8.0	11.0	7440-02-0	MND33		J	Soil	0
MND33-0062	0062-0003	Borehole	19911119	Vanadium	18.50	mg/kg	1.00	INORG	8.0	11.0	7440-62-2	MND33		J	Soil	0
MND33-0062	0062-0003	Borehole	19911119	Zinc	30.70	mg/kg	0.50	INORG	8.0	11.0	7440-66-6	MND33		J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Aluminum	2,920.00	mg/kg	6.00	INORG	0.0	2.0	7429-90-5	MND33		J	Soil	0
MND33-0062	0062-1002	Borehole	19911119	Iron	8,510.00	mg/kg	1.00	INORG	3.0	5.0	7439-89-6	MND33		J	Soil	0
MND33-0062	0062-1002	Borehole	19911119	Nickel	9.60	mg/kg	2.00	INORG	3.0	5.0	7440-02-0	MND33		J	Soil	0
MND33-0062	0062-1002	Borehole	19911119	Cobalt	5.70	mg/kg	1.00	INORG	3.0	5.0	7440-48-4	MND33		J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Aluminum	3,560.00	mg/kg	6.00	INORG	0.0	2.0	7429-90-5	MND33		J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Cobalt	7.00	mg/kg	1.00	INORG	0.0	2.0	7440-48-4	MND33		J	Soil	0
MND33-0062	0062-0002	Borehole	19911119	Aluminum	4,930.00	mg/kg	6.00	INORG	3.0	5.0	7429-90-5	MND33		J	Soil	0
MND33-0062	0062-0002	Borehole	19911119	Nickel	13.30	mg/kg	2.00	INORG	3.0	5.0	7440-02-0	MND33		J	Soil	0
MND33-0062	0062-0002	Borehole	19911119	Arsenic	0.79	mg/kg	0.20	INORG	3.0	5.0	7440-38-2	MND33		J	Soil	0
MND33-0062	0062-0002	Borehole	19911119	Zinc	26.60	mg/kg	0.50	INORG	3.0	5.0	7440-66-6	MND33		J	Soil	0
MND33-0062	0062-0003	Borehole	19911119	Arsenic	0.83	mg/kg	0.20	INORG	8.0	11.0	7440-38-2	MND33		J	Soil	0
MND33-0062	0062-0003	Borehole	19911119	Cobalt	8.20	mg/kg	1.00	INORG	8.0	11.0	7440-48-4	MND33		J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Iron	7,410.00	mg/kg	1.00	INORG	0.0	2.0	7439-89-6	MND33		J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Vanadium	23.30	mg/kg	1.00	INORG	0.0	2.0	7440-62-2	MND33		J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Zinc	51.80	mg/kg	0.50	INORG	0.0	2.0	7440-66-6	MND33		J	Soil	0
MND33-0062	0062-1002	Borehole	19911119	Aluminum	3,300.00	mg/kg	6.00	INORG	3.0	5.0	7429-90-5	MND33		J	Soil	0

Previous Sampling Results All Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Value Units	Detection Limit	Chem Class	Start Depth	End Depth	CAS Number	Project Code	Lab Qualifier	Data Qualifier	Media	Comment
MND33-0062	0062-1002	Borehole	19911119	Zinc	18.50	mg/kg	0.50	INORG	3.0	5.0	7440-66-6	MND33		J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Arsenic	1.50	mg/kg	0.20	INORG	0.0	2.0	7440-38-2	MND33		J	Soil	0
MND33-0062	0062-0002	Borehole	19911119	Vanadium	19.40	mg/kg	1.00	INORG	3.0	5.0	7440-62-2	MND33		J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Cobalt	7.20	mg/kg	1.00	INORG	0.0	2.0	7440-48-4	MND33		J	Soil	0
MND33-0062	0062-1002	Borehole	19911119	Arsenic	0.76	mg/kg	0.20	INORG	3.0	5.0	7440-38-2	MND33		J	Soil	0
MND33-0062	0062-1002	Borehole	19911119	Vanadium	17.20	mg/kg	1.00	INORG	3.0	5.0	7440-62-2	MND33		J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Manganese	361.00	mg/kg	0.20	INORG	0.0	2.0	7439-96-5	MND33			Soil	0
MND33-0062	0062-0001	Borehole	19911119	Potassium	395.00	mg/kg	10.00	INORG	0.0	2.0	7440-09-7	MND33			Soil	0
MND33-0062	0062-0003	Borehole	19911119	Sodium	219.00	mg/kg	10.00	INORG	8.0	11.0	7440-23-5	MND33			Soil	0
MND33-0062	0062-0003	Borehole	19911119	Barium	19.00	mg/kg	0.20	INORG	8.0	11.0	7440-39-3	MND33			Soil	0
MND33-0062	0062-0003	Borehole	19911119	Calcium	202,000.00	mg/kg	2.00	INORG	8.0	11.0	7440-70-2	MND33			Soil	0
MND33-0062	0062-1001	Borehole	19911119	Calcium	174,000.00	mg/kg	2.00	INORG	0.0	2.0	7440-70-2	MND33			Soil	0
MND33-0062	0062-0001	Borehole	19911119	Nickel	16.70	mg/kg	2.00	INORG	0.0	2.0	7440-02-0	MND33			Soil	0
MND33-0062	0062-0001	Borehole	19911119	Barium	32.90	mg/kg	0.20	INORG	0.0	2.0	7440-39-3	MND33			Soil	0
MND33-0062	0062-0001	Borehole	19911119	Calcium	175,000.00	mg/kg	2.00	INORG	0.0	2.0	7440-70-2	MND33			Soil	0
MND33-0062	0062-0002	Borehole	19911119	Potassium	679.00	mg/kg	10.00	INORG	3.0	5.0	7440-09-7	MND33			Soil	0
MND33-0062	0062-0002	Borehole	19911119	Barium	30.50	mg/kg	0.20	INORG	3.0	5.0	7440-39-3	MND33			Soil	0
MND33-0062	0062-0002	Borehole	19911119	Calcium	246,000.00	mg/kg	2.00	INORG	3.0	5.0	7440-70-2	MND33			Soil	0
MND33-0062	0062-0003	Borehole	19911119	Manganese	390.00	mg/kg	0.20	INORG	8.0	11.0	7439-96-5	MND33			Soil	0
MND33-0062	0062-0003	Borehole	19911119	Potassium	833.00	mg/kg	10.00	INORG	8.0	11.0	7440-09-7	MND33			Soil	0
MND33-0062	0062-1001	Borehole	19911119	Manganese	310.00	mg/kg	0.20	INORG	0.0	2.0	7439-96-5	MND33			Soil	0
MND33-0062	0062-1001	Borehole	19911119	Nickel	18.20	mg/kg	2.00	INORG	0.0	2.0	7440-02-0	MND33			Soil	0
MND33-0062	0062-1001	Borehole	19911119	Potassium	284.00	mg/kg	10.00	INORG	0.0	2.0	7440-09-7	MND33			Soil	0
MND33-0062	0062-1001	Borehole	19911119	Barium	26.90	mg/kg	0.20	INORG	0.0	2.0	7440-39-3	MND33			Soil	0
MND33-0062	0062-1002	Borehole	19911119	Manganese	302.00	mg/kg	0.20	INORG	3.0	5.0	7439-96-5	MND33			Soil	0
MND33-0062	0062-1002	Borehole	19911119	Potassium	582.00	mg/kg	10.00	INORG	3.0	5.0	7440-09-7	MND33			Soil	0
MND33-0062	0062-1002	Borehole	19911119	Sodium	210.00	mg/kg	10.00	INORG	3.0	5.0	7440-23-5	MND33			Soil	0
MND33-0062	0062-1002	Borehole	19911119	Barium	18.80	mg/kg	0.20	INORG	3.0	5.0	7440-39-3	MND33			Soil	0
MND33-0062	0062-1002	Borehole	19911119	Calcium	279,000.00	mg/kg	2.00	INORG	3.0	5.0	7440-70-2	MND33			Soil	0
MND33-0062	0062-0002	Borehole	19911119	Manganese	327.00	mg/kg	0.20	INORG	3.0	5.0	7439-96-5	MND33			Soil	0
MND33-0062	0062-1001	Borehole	19911119	Arsenic	2.00	mg/kg	0.20	INORG	0.0	2.0	7440-38-2	MND33		J	Soil	1
MND33-0062	0062-0001	Borehole	19911119	Lead	148.00	mg/kg	0.20	INORG	0.0	2.0	7439-92-1	MND33	*	J	Soil	2
MND33-0062	0062-1001	Borehole	19911119	Lead	48.30	mg/kg	0.20	INORG	0.0	2.0	7439-92-1	MND33	*	J	Soil	2
MND33-0062	0062-0001	Borehole	19911119	Magnesium	50,000.00	mg/kg	5.00	INORG	0.0	2.0	7439-95-4	MND33	*		Soil	2
MND33-0062	0062-1001	Borehole	19911119	Magnesium	63,500.00	mg/kg	5.00	INORG	0.0	2.0	7439-95-4	MND33	*		Soil	2
MND33-0062	0062-0001	Borehole	19911119	Cadmium	7.20	mg/kg	0.20	INORG	0.0	2.0	7440-43-9	MND33		J	Soil	2
MND33-0062	0062-0002	Borehole	19911119	Silver	20.60	mg/kg	1.00	INORG	3.0	5.0	7440-22-4	MND33		J	Soil	2
MND33-0062	0062-0003	Borehole	19911119	Silver	18.50	mg/kg	1.00	INORG	8.0	11.0	7440-22-4	MND33		J	Soil	2
MND33-0062	0062-1001	Borehole	19911119	Silver	19.10	mg/kg	1.00	INORG	0.0	2.0	7440-22-4	MND33		J	Soil	2
MND33-0062	0062-1001	Borehole	19911119	Cadmium	18.00	mg/kg	0.20	INORG	0.0	2.0	7440-43-9	MND33		J	Soil	2
MND33-0062	0062-0001	Borehole	19911119	Silver	18.90	mg/kg	1.00	INORG	0.0	2.0	7440-22-4	MND33		J	Soil	2
MND33-0062	0062-1002	Borehole	19911119	Silver	21.10	mg/kg	1.00	INORG	3.0	5.0	7440-22-4	MND33		J	Soil	2
MND33-0062	0062-0003	Borehole	19911119	Cadmium	2.70	mg/kg	0.20	INORG	8.0	11.0	7440-43-9	MND33		J	Soil	2
MND33-0062	0062-0002	Borehole	19911119	Sodium	264.00	mg/kg	10.00	INORG	3.0	5.0	7440-23-5	MND33			Soil	2
MND33-0062	0062-0002	Borehole	19911119	Chromium	29.00	mg/kg	1.00	INORG	3.0	5.0	7440-47-3	MND33			Soil	2
MND33-0062	0062-1001	Borehole	19911119	Sodium	326.00	mg/kg	10.00	INORG	0.0	2.0	7440-23-5	MND33			Soil	2
MND33-0062	0062-1001	Borehole	19911119	Chromium	35.80	mg/kg	1.00	INORG	0.0	2.0	7440-47-3	MND33			Soil	2
MND33-0062	0062-1002	Borehole	19911119	Chromium	27.70	mg/kg	1.00	INORG	3.0	5.0	7440-47-3	MND33			Soil	2
MND33-0062	0062-0001	Borehole	19911119	Sodium	319.00	mg/kg	10.00	INORG	0.0	2.0	7440-23-5	MND33			Soil	2
MND33-0062	0062-0003	Borehole	19911119	Chromium	26.90	mg/kg	1.00	INORG	8.0	11.0	7440-47-3	MND33			Soil	2
MND33-0062	0062-0001	Borehole	19911119	Chromium	29.80	mg/kg	1.00	INORG	0.0	2.0	7440-47-3	MND33			Soil	2
MND33-0062	0062-0001	Borehole	19911119	Antimony	32.30	mg/kg	3.00	INORG	0.0	2.0	7440-36-0	MND33		J	Soil	9
MND33-0062	0062-1002	Borehole	19911119	Antimony	12.70	mg/kg	3.00	INORG	3.0	5.0	7440-36-0	MND33		J	Soil	9
MND33-0062	0062-0003	Borehole	19911119	Antimony	17.50	mg/kg	3.00	INORG	8.0	11.0	7440-36-0	MND33		J	Soil	9
MND33-0062	0062-1001	Borehole	19911119	Antimony	38.00	mg/kg	3.00	INORG	0.0	2.0	7440-36-0	MND33		J	Soil	9
MND33-0062	0062-0002	Borehole	19911119	Antimony	12.60	mg/kg	3.00	INORG	3.0	5.0	7440-36-0	MND33		J	Soil	9

Previous Sampling Results All Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Value Units	Detection Limit	Chem Class	Start Depth	End Depth	CAS Number	Project Code	Lab Qualifier	Data Qualifier	Media	Comment
MND33-0062	0062-0001	Borehole	19911119	Bis(2-ethylhexyl)phthalate	1,400.00	ug/kg	400.00	ORSVO	0.0	2.0	117-81-7	MND33	B	J	Soil	0
MND33-0062	0062-0003	Borehole	19911119	Bis(2-ethylhexyl)phthalate	840.00	ug/kg	370.00	ORSVO	8.0	11.0	117-81-7	MND33	B	J	Soil	0
MND33-0062	0062-0002	Borehole	19911119	Bis(2-ethylhexyl)phthalate	1,700.00	ug/kg	390.00	ORSVO	3.0	5.0	117-81-7	MND33	B	J	Soil	0
MND33-0062	0062-1002	Borehole	19911119	Bis(2-ethylhexyl)phthalate	1,600.00	ug/kg	370.00	ORSVO	3.0	5.0	117-81-7	MND33	B	J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Bis(2-ethylhexyl)phthalate	1,500.00	ug/kg	390.00	ORSVO	0.0	2.0	117-81-7	MND33	B	J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Indeno(1,2,3-cd)pyrene	67.00	ug/kg	400.00	ORSVO	0.0	2.0	193-39-5	MND33	J	J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Fluoranthene	200.00	ug/kg	400.00	ORSVO	0.0	2.0	206-44-0	MND33	J	J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Dibenz(a,h)anthracene	64.00	ug/kg	400.00	ORSVO	0.0	2.0	53-70-3	MND33	J	J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Di-n-butyl Phthalate	54.00	ug/kg	400.00	ORSVO	0.0	2.0	84-74-2	MND33	J	J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Indeno(1,2,3-cd)pyrene	50.00	ug/kg	390.00	ORSVO	0.0	2.0	193-39-5	MND33	J	J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Fluoranthene	140.00	ug/kg	390.00	ORSVO	0.0	2.0	206-44-0	MND33	J	J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Benzo(a)pyrene	64.00	ug/kg	390.00	ORSVO	0.0	2.0	50-32-8	MND33	J	J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Di-n-butyl Phthalate	57.00	ug/kg	390.00	ORSVO	0.0	2.0	84-74-2	MND33	J	J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Benzo(a)pyrene	89.00	ug/kg	400.00	ORSVO	0.0	2.0	50-32-8	MND33	J	J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Butyl Benzyl Phthalate	310.00	ug/kg	400.00	ORSVO	0.0	2.0	85-68-7	MND33	J	J	Soil	0
MND33-0062	0062-0003	Borehole	19911119	N-Nitroso-di-n-propylamine	41.00	ug/kg	370.00	ORSVO	8.0	11.0	621-64-7	MND33	J	J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Pyrene	270.00	ug/kg	390.00	ORSVO	0.0	2.0	129-00-0	MND33	J	J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Dibenz(a,h)anthracene	60.00	ug/kg	390.00	ORSVO	0.0	2.0	53-70-3	MND33	J	J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Butyl Benzyl Phthalate	180.00	ug/kg	390.00	ORSVO	0.0	2.0	85-68-7	MND33	J	J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Hexachlorobenzene	49.00	ug/kg	400.00	ORSVO	0.0	2.0	118-74-1	MND33	J	J	Soil	0
MND33-0062	0062-0001	Borehole	19911119	Pyrene	340.00	ug/kg	400.00	ORSVO	0.0	2.0	129-00-0	MND33	J	J	Soil	0
MND33-0062	0062-1001	Borehole	19911119	Phenanthrene	60.00	ug/kg	390.00	ORSVO	0.0	2.0	85-01-8	MND33	J	J	Soil	
MND33-0062	0062-0001	Borehole	19911119	Dimethyl Phthalate	130.00	ug/kg	400.00	ORSVO	0.0	2.0	131-11-3	MND33	J	J	Soil	
MND33-0062	0062-0001	Borehole	19911119	Benzo(g,h,i)perylene	100.00	ug/kg	400.00	ORSVO	0.0	2.0	191-24-2	MND33	J	J	Soil	
MND33-0062	0062-1001	Borehole	19911119	Dimethyl Phthalate	240.00	ug/kg	390.00	ORSVO	0.0	2.0	131-11-3	MND33	J	J	Soil	
MND33-0062	0062-1001	Borehole	19911119	Benzo(g,h,i)perylene	72.00	ug/kg	390.00	ORSVO	0.0	2.0	191-24-2	MND33	J	J	Soil	
MND33-0062	0062-0001	Borehole	19911119	Phenanthrene	93.00	ug/kg	400.00	ORSVO	0.0	2.0	85-01-8	MND33	J	J	Soil	
MND33-0063	0063-0001	Borehole	19911120	Iron	11,900.00	mg/kg	1.00	INORG	0.0	0.5	7439-89-6	MND33	*	J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Barium	67.10	mg/kg	0.20	INORG	0.0	0.5	7440-39-3	MND33	*	J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Manganese	521.00	mg/kg	0.20	INORG	0.0	0.5	7439-96-5	MND33	*	J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Cyanide	0.16	mg/kg	0.10	INORG	0.0	0.5	57-12-5	MND33	B	J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Beryllium	0.83	mg/kg	0.20	INORG	0.0	0.5	7440-41-7	MND33	B		Soil	0
MND33-0063	0063-0001	Borehole	19911120	Zinc	104.00	mg/kg	0.50	INORG	0.0	0.5	7440-66-6	MND33		J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Aluminum	6,560.00	mg/kg	6.00	INORG	0.0	0.5	7429-90-5	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Lead	33.80	mg/kg	0.20	INORG	0.0	0.5	7439-92-1	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Potassium	1,130.00	mg/kg	10.00	INORG	0.0	0.5	7440-09-7	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Sodium	39.40	mg/kg	10.00	INORG	0.0	0.5	7440-23-5	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Cobalt	9.80	mg/kg	1.00	INORG	0.0	0.5	7440-48-4	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Copper	22.90	mg/kg	1.00	INORG	0.0	0.5	7440-50-8	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Mercury	0.12	mg/kg	0.12	INORG	0.0	0.5	7439-97-6	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Nickel	15.80	mg/kg	2.00	INORG	0.0	0.5	7440-02-0	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Cadmium	1.10	mg/kg	0.20	INORG	0.0	0.5	7440-43-9	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Chromium	17.70	mg/kg	1.00	INORG	0.0	0.5	7440-47-3	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Calcium	9,540.00	mg/kg	2.00	INORG	0.0	0.5	7440-70-2	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Magnesium	4,660.00	mg/kg	5.00	INORG	0.0	0.5	7439-95-4	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Vanadium	20.70	mg/kg	1.00	INORG	0.0	0.5	7440-62-2	MND33			Soil	0
MND33-0063	0063-0001	Borehole	19911120	Arsenic	5.50	mg/kg	0.20	INORG	0.0	0.5	7440-38-2	MND33		J	Soil	1
MND33-0063	0063-0001	Borehole	19911120	Silver	3.00	mg/kg	1.00	INORG	0.0	0.5	7440-22-4	MND33			Soil	2
MND33-0063	0063-0001	Borehole	19911120	Anthracene	110.00	ug/kg	330.00	ORSVO	0.0	0.5	120-12-7	MND33	J	J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Indeno(1,2,3-cd)pyrene	190.00	ug/kg	330.00	ORSVO	0.0	0.5	193-39-5	MND33	J	J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Di-n-butyl Phthalate	110.00	ug/kg	330.00	ORSVO	0.0	0.5	84-74-2	MND33	J	J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Dibenz(a,h)anthracene	70.00	ug/kg	330.00	ORSVO	0.0	0.5	53-70-3	MND33	J	J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Acenaphthene	86.00	ug/kg	330.00	ORSVO	0.0	0.5	83-32-9	MND33	J	J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Fluorene	68.00	ug/kg	330.00	ORSVO	0.0	0.5	86-73-7	MND33	J	J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	3,3'-Dichlorobenzidine	48.00	ug/kg	660.00	ORSVO	0.0	0.5	91-94-1	MND33	J	J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Benzo(a)pyrene	350.00	ug/kg	330.00	ORSVO	0.0	0.5	50-32-8	MND33	J	J	Soil	0

Previous Sampling Results All Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured Value	Value Units	Detection Limit	Chem Class	Start Depth	End Depth	CAS Number	Project Code	Lab Qualifier	Data Qualifier	Media	Comment
MND33-0063	0063-0001	Borehole	19911120	Butyl Benzyl Phthalate	190.00	ug/kg	330.00	ORSVO	0.0	0.5	85-68-7	MND33	J	J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Chrysene	730.00	ug/kg	330.00	ORSVO	0.0	0.5	218-01-9	MND33		J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Bis(2-ethylhexyl)phthalate	510.00	ug/kg	330.00	ORSVO	0.0	0.5	117-81-7	MND33		J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Pyrene	1,300.00	ug/kg	330.00	ORSVO	0.0	0.5	129-00-0	MND33		J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Fluoranthene	1,300.00	ug/kg	330.00	ORSVO	0.0	0.5	206-44-0	MND33		J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Benzo(b)fluoranthene	750.00	ug/kg	330.00	ORSVO	0.0	0.5	205-99-2	MND33		J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Benzo(a)anthracene	510.00	ug/kg	330.00	ORSVO	0.0	0.5	56-55-3	MND33		J	Soil	0
MND33-0063	0063-0001	Borehole	19911120	Benzo(g,h,i)perylene	210.00	ug/kg	330.00	ORSVO	0.0	0.5	191-24-2	MND33	J	J	Soil	
MND33-0063	0063-0001	Borehole	19911120	Phenanthrene	830.00	ug/kg	330.00	ORSVO	0.0	0.5	85-01-8	MND33		J	Soil	

Comment Field

(Blank)	No criteria checked
0	Value is less than criteria checked in file 'Final RBGVs Constr Worker-Site Employee_Rev3.xls'
1	Value is greater than 10-6 Risk-Based Guideline Value
2	Value is greater than the OU9 Soil Background Value
3	Value is greater than the Screening Value (10-6 RBGV + background or as agreed)
4	Value is greater than the Cleanup Objective (10-5 RBGV + background or as agreed)
5	Value is greater than the MCL
6	Value is greater than the Guide Value based on the Hazard Index = 1
7	Value is greater than the Hot Spot Criteria (3x10-5 + background or as agreed)
8	Value is greater than the Guide Value based on the Hazard Index = 1 + background
9	Value is greater than the Guide Value based on the Hazard Index = .1 + background

Duplicate entries in the Comment column indicate values for RAD daughters and long lived decay.

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Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
4014	4014-0011	Borehole	19940421	1,1-Dichloroethane	1975.30	PPB	1975.30	ORVOA	11.1	11.1	75-34-3		U	SVROU2	Other
4014	4014-0005	Borehole	19940421	Toluene	526.30	PPB	526.30	ORVOA	5.0	5.0	108-88-3		U	SVROU2	Other
4014	4014-0005	Borehole	19940421	1,1-Dichloroethane	1975.30	PPB	1975.30	ORVOA	5.0	5.0	75-34-3		U	SVROU2	Other
4014	4014-0011	Borehole	19940421	Total VOC's	1975.30	PPB	1975.30	ORVOA	11.1	11.1	TVOC		U	SVROU2	Other
4015	4015-0007	Borehole	19940425	Toluene	526.30	PPB	526.30	ORVOA	7.5	7.5	108-88-3		U	SVROU2	Other
4015	4015-0009	Borehole	19940425	1,2-cis-Dichloroethene	2020.20	PPB	2020.20	ORVOA	9.2	9.2	156-59-2		U	SVROU2	Other
4015	4015-0005	Borehole	19940425	1,2-trans-Dichloroethene	2273.00	PPB	2273.00	ORVOA	5.0	5.0	156-60-5		U	SVROU2	Other
411-M-002	411-M-002	Excavation	20040902	Plutonium-238	13.52	pCi/g	13.52	RAD	0.0	1.0	13981-16-3	U		PRS411V	Soil
411-M-002	411-M-002	Excavation	20040902	Americium-241	0.09	pCi/g	0.09	RAD	0.0	1.0	14596-10-2	U		PRS411V	Soil
411-M-002	411-M-002	Excavation	20040902	Cesium-137	0.06	pCi/g	0.06	RAD	0.0	1.0	10045-97-3	U		PRS411V	Soil
411-M-002	411-M-002	Excavation	20040902	Cobalt-60	0.09	pCi/g	0.09	RAD	0.0	1.0	10198-40-0	U		PRS411V	Soil
411-M-002	411-M-002	Excavation	20040902	Thorium-230	7.72	pCi/g	7.72	RAD	0.0	1.0	14269-63-7	U		PRS411V	Soil
411-M-002	411-M-002	Excavation	20040902	Actinium-227	0.28	pCi/g	0.28	RAD	0.0	1.0	14952-40-0	U		PRS411V	Soil
411-NW-001	411-NW-0	Excavation	20040902	Cobalt-60	0.07	pCi/g	0.07	RAD	0.0	1.0	10198-40-0	U		PRS411V	Soil
411-NW-001	411-NW-0	Excavation	20040902	Americium-241	0.08	pCi/g	0.08	RAD	0.0	1.0	14596-10-2	U		PRS411V	Soil
411-NW-001	411-NW-0	Excavation	20040902	Lead-210	0.75	pCi/g	0.75	RAD	0.0	1.0	14255-04-0	U		PRS411V	Soil
411-NW-001	411-NW-0	Excavation	20040902	Plutonium-238	11.63	pCi/g	11.63	RAD	0.0	1.0	13981-16-3	U		PRS411V	Soil
411-NW-001	411-NW-0	Excavation	20040902	Thorium-230	6.88	pCi/g	6.88	RAD	0.0	1.0	14269-63-7	U		PRS411V	Soil
411-NW-001	411-NW-0	Excavation	20040902	Actinium-227	0.33	pCi/g	0.33	RAD	0.0	1.0	14952-40-0	U		PRS411V	Soil
C0253	8396	Borehole	19841201	Thorium-232	2.00	pCi/g	2.00	RAD	3.0	3.0	7440-29-1	U		RSS	Soil
M-71	000128	Surface Locati	20000302	Actinium-227	0.05	pCi/g	0.05	RAD	0.0	2.0	14952-40-0	U		MBLDGDDC	Soil
M-71	000128	Surface Locati	20000302	Thorium-230	1.57	pCi/g	1.57	RAD	0.0	2.0	14269-63-7	U		MBLDGDDC	Soil
M-71	000128	Surface Locati	20000302	Plutonium-238	4.90	pCi/g	4.90	RAD	0.0	2.0	13981-16-3	U		MBLDGDDC	Soil
M-71	000128	Surface Locati	20000302	Americium-241	0.02	pCi/g	0.02	RAD	0.0	2.0	14596-10-2	U		MBLDGDDC	Soil
M-71	000128	Surface Locati	20000302	Cesium-137	0.01	pCi/g	0.01	RAD	0.0	2.0	10045-97-3	U		MBLDGDDC	Soil
M-71	000128	Surface Locati	20000302	Cobalt-60	0.01	pCi/g	0.01	RAD	0.0	2.0	10198-40-0	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Antimony	0.38	mg/kg	0.00	INORG	0.0	4.0	7440-36-0	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Silver	0.19	mg/kg	0.00	INORG	0.0	4.0	7440-22-4	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Thallium	0.79	mg/kg	0.00	INORG	0.0	4.0	7440-28-0	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Selenium	0.94	mg/kg	0.00	INORG	0.0	4.0	7782-49-2	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Cyanide	0.61	mg/kg	0.00	INORG	0.0	4.0	57-12-5	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Mercury	0.03	mg/kg	0.00	INORG	0.0	4.0	7439-97-6	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Bis(2-chloroethyl)ether	410.00	ug/kg	410.00	ORSVO	0.0	4.0	111-44-4	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2-Chlorophenol	410.00	ug/kg	410.00	ORSVO	0.0	4.0	95-57-8	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,3-Dichlorobenzene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	541-73-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2,2'-oxybis(1-chloropropane)	410.00	ug/kg	410.00	ORSVO	0.0	4.0	108-60-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Nitrobenzene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	98-95-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Isophorone	410.00	ug/kg	410.00	ORSVO	0.0	4.0	78-59-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,2,4-Trichlorobenzene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	120-82-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Naphthalene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	91-20-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	4-Chloroaniline	410.00	ug/kg	410.00	ORSVO	0.0	4.0	106-47-8	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2,4,6-Trichlorophenol	410.00	ug/kg	410.00	ORSVO	0.0	4.0	88-06-2	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2,4,5-Trichlorophenol	1000.00	ug/kg	1000.00	ORSVO	0.0	4.0	95-95-4	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2-Chloronaphthalene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	91-58-7	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	3-Nitroaniline	1000.00	ug/kg	1000.00	ORSVO	0.0	4.0	99-09-2	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Acenaphthene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	83-32-9	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2,4-Dinitrotoluene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	121-14-2	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Diethyl Phthalate	410.00	ug/kg	410.00	ORSVO	0.0	4.0	84-66-2	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	4,6-Dinitro-o-Cresol	1000.00	ug/kg	1000.00	ORSVO	0.0	4.0	534-52-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	N-Nitrosodiphenylamine	410.00	ug/kg	410.00	ORSVO	0.0	4.0	86-30-6	U		MBLDGDDC	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
M-80	000126	Surface Locati	20000302	4-Bromophenyl-phenyl Ether	410.00	ug/kg	410.00	ORSVO	0.0	4.0	101-55-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Carbazole	410.00	ug/kg	410.00	ORSVO	0.0	4.0	86-74-8	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Bis(2-ethylhexyl)phthalate	410.00	ug/kg	410.00	ORSVO	0.0	4.0	117-81-7	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Phenol	410.00	ug/kg	410.00	ORSVO	0.0	4.0	108-95-2	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,2-Dichlorobenzene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	95-50-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2-Methylphenol	410.00	ug/kg	410.00	ORSVO	0.0	4.0	95-48-7	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	N-Nitroso-di-n-propylamine	410.00	ug/kg	410.00	ORSVO	0.0	4.0	621-64-7	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Hexachloroethane	410.00	ug/kg	410.00	ORSVO	0.0	4.0	67-72-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2,4-Dimethylphenol	410.00	ug/kg	410.00	ORSVO	0.0	4.0	105-67-9	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Bis(2-chloroethoxy)methane	410.00	ug/kg	410.00	ORSVO	0.0	4.0	111-91-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2,4-Dichlorophenol	410.00	ug/kg	410.00	ORSVO	0.0	4.0	120-83-2	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	4-Chloro-3-methylphenol	410.00	ug/kg	410.00	ORSVO	0.0	4.0	59-50-7	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2-Methylnaphthalene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	91-57-6	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Hexachlorocyclopentadiene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	77-47-4	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Dimethyl Phthalate	410.00	ug/kg	410.00	ORSVO	0.0	4.0	131-11-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Acenaphthylene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	208-96-8	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2,6-Dinitrotoluene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	606-20-2	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	4-Nitrophenol	1000.00	ug/kg	1000.00	ORSVO	0.0	4.0	100-02-7	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Dibenzofuran	410.00	ug/kg	410.00	ORSVO	0.0	4.0	132-64-9	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1-chloro-4-phenoxybenzene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	7005-72-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Fluorene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	86-73-7	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	4-Nitroaniline	1000.00	ug/kg	1000.00	ORSVO	0.0	4.0	100-01-6	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Pentachlorophenol	1000.00	ug/kg	1000.00	ORSVO	0.0	4.0	87-86-5	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Anthracene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	120-12-7	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Butyl Benzyl Phthalate	410.00	ug/kg	410.00	ORSVO	0.0	4.0	85-68-7	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	3,3'-Dichlorobenzidine	410.00	ug/kg	410.00	ORSVO	0.0	4.0	91-94-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Indeno(1,2,3-cd)pyrene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	193-39-5	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Dibenz(a,h)anthracene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	53-70-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,4-Dichlorobenzene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	106-46-7	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	4-Methylphenol	410.00	ug/kg	410.00	ORSVO	0.0	4.0	106-44-5	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2-Nitrophenol	410.00	ug/kg	410.00	ORSVO	0.0	4.0	88-75-5	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Hexachlorobutadiene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	87-68-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2-Nitroaniline	1000.00	ug/kg	1000.00	ORSVO	0.0	4.0	88-74-4	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2,4-Dinitrophenol	1000.00	ug/kg	1000.00	ORSVO	0.0	4.0	51-28-5	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Hexachlorobenzene	410.00	ug/kg	410.00	ORSVO	0.0	4.0	118-74-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Bromomethane	13.00	ug/kg	13.00	ORVOA	0.0	4.0	74-83-9	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Vinyl Chloride	13.00	ug/kg	13.00	ORVOA	0.0	4.0	75-01-4	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Chloroethane	13.00	ug/kg	13.00	ORVOA	0.0	4.0	75-00-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,1-Dichloroethane	13.00	ug/kg	13.00	ORVOA	0.0	4.0	75-34-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,2-Dichloroethene	13.00	ug/kg	13.00	ORVOA	0.0	4.0	540-59-0	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Trichloromethane	13.00	ug/kg	13.00	ORVOA	0.0	4.0	67-66-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Bromodichloromethane	13.00	ug/kg	13.00	ORVOA	0.0	4.0	75-27-4	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,2-Dichloropropane	13.00	ug/kg	13.00	ORVOA	0.0	4.0	78-87-5	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,3-cis-Dichloropropene	13.00	ug/kg	13.00	ORVOA	0.0	4.0	10061-01-5	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Benzene	13.00	ug/kg	13.00	ORVOA	0.0	4.0	71-43-2	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,3-trans-Dichloropropene	13.00	ug/kg	13.00	ORVOA	0.0	4.0	10061-02-6	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Bromoform	13.00	ug/kg	13.00	ORVOA	0.0	4.0	75-25-2	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	4-Methyl-2-pentanone	13.00	ug/kg	13.00	ORVOA	0.0	4.0	108-10-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Tetrachloroethene	13.00	ug/kg	13.00	ORVOA	0.0	4.0	127-18-4	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,1,2,2-Tetrachloroethane	13.00	ug/kg	13.00	ORVOA	0.0	4.0	79-34-5	U		MBLDGDDC	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
M-80	000126	Surface Locati	20000302	Styrene	13.00	ug/kg	13.00	ORVOA	0.0	4.0	100-42-5	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Chloromethane	13.00	ug/kg	13.00	ORVOA	0.0	4.0	74-87-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Carbon Disulfide	13.00	ug/kg	13.00	ORVOA	0.0	4.0	75-15-0	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,1-Dichloroethene	13.00	ug/kg	13.00	ORVOA	0.0	4.0	75-35-4	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,2-Dichloroethane	13.00	ug/kg	13.00	ORVOA	0.0	4.0	107-06-2	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,1,1-Trichloroethane	13.00	ug/kg	13.00	ORVOA	0.0	4.0	71-55-6	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Carbon Tetrachloride	13.00	ug/kg	13.00	ORVOA	0.0	4.0	56-23-5	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Dibromochloromethane	13.00	ug/kg	13.00	ORVOA	0.0	4.0	124-48-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	1,1,2-Trichloroethane	13.00	ug/kg	13.00	ORVOA	0.0	4.0	79-00-5	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	2-Hexanone	13.00	ug/kg	13.00	ORVOA	0.0	4.0	591-78-6	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Chlorobenzene	13.00	ug/kg	13.00	ORVOA	0.0	4.0	108-90-7	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	FREON-113	13.00	ug/kg	13.00	ORVOA	0.0	4.0	76-13-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Trichloroethylene (TCE)	13.00	ug/kg	13.00	ORVOA	0.0	4.0	79-01-6	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Cobalt-60	0.13	pCi/g	0.13	RAD	0.0	4.0	10198-40-0	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Cesium-137	0.10	pCi/g	0.10	RAD	0.0	4.0	10045-97-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Lead-210	1.72	pCi/g	1.72	RAD	0.0	4.0	14255-04-0	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Plutonium-238	67.45	pCi/g	67.45	RAD	0.0	4.0	13981-16-3	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Americium-241	0.26	pCi/g	0.26	RAD	0.0	4.0	14596-10-2	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Uranium-238	1.97	pCi/g	1.97	RAD	0.0	4.0	7440-61-1	U		MBLDGDDC	Soil
M-80	000127	Surface Locati	20000302	Cesium-137	0.18	pCi/g	0.18	RAD	0.0	5.0	10045-97-3	U		MBLDGDDC	Soil
M-80	000127	Surface Locati	20000302	Lead-210	3.19	pCi/g	3.19	RAD	0.0	5.0	14255-04-0	U		MBLDGDDC	Soil
M-80	000127	Surface Locati	20000302	Radium-226	3.52	pCi/g	3.52	RAD	0.0	5.0	13982-63-3	U		MBLDGDDC	Soil
M-80	000127	Surface Locati	20000302	Plutonium-238	90.10	pCi/g	90.10	RAD	0.0	5.0	13981-16-3	U		MBLDGDDC	Soil
M-80	000127	Surface Locati	20000302	Americium-241	0.25	pCi/g	0.25	RAD	0.0	5.0	14596-10-2	U		MBLDGDDC	Soil
M-80	000127	Surface Locati	20000302	Uranium-238	2.34	pCi/g	2.34	RAD	0.0	5.0	7440-61-1	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Actinium-227	0.69	pCi/g	0.69	RAD	0.0	4.0	14952-40-0	U		MBLDGDDC	Soil
M-80	000126	Surface Locati	20000302	Thorium-230	22.72	pCi/g	22.72	RAD	0.0	4.0	14269-63-7	U		MBLDGDDC	Soil
M-80	000127	Surface Locati	20000302	Thorium-230	26.67	pCi/g	26.67	RAD	0.0	5.0	14269-63-7	U		MBLDGDDC	Soil
M-80	000127	Surface Locati	20000302	Actinium-227	0.90	pCi/g	0.90	RAD	0.0	5.0	14952-40-0	U		MBLDGDDC	Soil
MND33-0062	0062-0001	Borehole	19911119	Cyanide	0.12	mg/kg	0.12	INORG	0.0	2.0	57-12-5	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Cyanide	0.11	mg/kg	0.11	INORG	8.0	11.0	57-12-5	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Cyanide	0.12	mg/kg	0.12	INORG	0.0	2.0	57-12-5	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Mercury	0.11	mg/kg	0.11	INORG	3.0	5.0	7439-97-6	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Mercury	0.11	mg/kg	0.11	INORG	0.0	2.0	7439-97-6	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Cyanide	0.11	mg/kg	0.11	INORG	3.0	5.0	57-12-5	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Mercury	0.12	mg/kg	0.12	INORG	3.0	5.0	7439-97-6	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Mercury	0.11	mg/kg	0.11	INORG	8.0	11.0	7439-97-6	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Mercury	0.11	mg/kg	0.11	INORG	0.0	2.0	7439-97-6	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Cyanide	0.11	mg/kg	0.11	INORG	3.0	5.0	57-12-5	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Cadmium	2.30	mg/kg	2.30	INORG	3.0	5.0	7440-43-9	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Cadmium	2.20	mg/kg	2.20	INORG	3.0	5.0	7440-43-9	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Selenium	0.47	mg/kg	0.47	INORG	0.0	2.0	7782-49-2		R	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Selenium	0.46	mg/kg	0.46	INORG	0.0	2.0	7782-49-2		R	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Selenium	0.46	mg/kg	0.46	INORG	3.0	5.0	7782-49-2		R	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Selenium	0.43	mg/kg	0.43	INORG	8.0	11.0	7782-49-2		R	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Selenium	0.44	mg/kg	0.44	INORG	3.0	5.0	7782-49-2		R	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Thallium	0.46	mg/kg	0.46	INORG	0.0	2.0	7440-28-0		UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Thallium	0.46	mg/kg	0.46	INORG	3.0	5.0	7440-28-0		UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Thallium	0.44	mg/kg	0.44	INORG	3.0	5.0	7440-28-0		UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Thallium	0.43	mg/kg	0.43	INORG	8.0	11.0	7440-28-0		UJ	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-1001	Borehole	19911119	Thallium	0.47	mg/kg	0.47	INORG	0.0	2.0	7440-28-0		UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Aroclor-1254	189.10	ug/kg	189.10	ORPPB	0.0	2.0	11097-69-1	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Aroclor-1221	94.60	ug/kg	94.60	ORPPB	0.0	2.0	11104-28-2	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Alpha-BHC	2.40	ug/kg	2.40	ORPPB	0.0	2.0	319-84-6	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Beta-BHC	4.70	ug/kg	4.70	ORPPB	0.0	2.0	319-85-7	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Delta-BHC	7.10	ug/kg	7.10	ORPPB	0.0	2.0	319-86-8	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Aroclor-1242	94.60	ug/kg	94.60	ORPPB	0.0	2.0	53469-21-9	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Endrin Ketone	18.90	ug/kg	18.90	ORPPB	0.0	2.0	53494-70-5	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Gamma-BHC (Lindane)	3.20	ug/kg	3.20	ORPPB	0.0	2.0	58-89-9	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	4,4'-DDE	3.20	ug/kg	3.20	ORPPB	0.0	2.0	72-55-9	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Endrin Aldehyde	18.10	ug/kg	18.10	ORPPB	0.0	2.0	7421-93-4	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Heptachlor	2.40	ug/kg	2.40	ORPPB	0.0	2.0	76-44-8	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Aroclor-1260	191.80	ug/kg	191.80	ORPPB	3.0	5.0	11096-82-5	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Aroclor-1254	191.80	ug/kg	191.80	ORPPB	3.0	5.0	11097-69-1	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Aroclor-1221	95.90	ug/kg	95.90	ORPPB	3.0	5.0	11104-28-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Aroclor-1232	95.90	ug/kg	95.90	ORPPB	3.0	5.0	11141-16-5	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Alpha-BHC	2.40	ug/kg	2.40	ORPPB	3.0	5.0	319-84-6	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Beta-BHC	4.80	ug/kg	4.80	ORPPB	3.0	5.0	319-85-7	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Delta-BHC	7.20	ug/kg	7.20	ORPPB	3.0	5.0	319-86-8	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Aroclor-1242	95.90	ug/kg	95.90	ORPPB	3.0	5.0	53469-21-9	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Methoxychlor	95.90	ug/kg	95.90	ORPPB	3.0	5.0	72-43-5	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	4,4'-DDD	8.80	ug/kg	8.80	ORPPB	3.0	5.0	72-54-8	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	4,4'-DDE	3.20	ug/kg	3.20	ORPPB	3.0	5.0	72-55-9	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Aroclor-1260	176.60	ug/kg	176.60	ORPPB	8.0	11.0	11096-82-5	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Aroclor-1254	176.60	ug/kg	176.60	ORPPB	8.0	11.0	11097-69-1	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Aroclor-1221	88.30	ug/kg	88.30	ORPPB	8.0	11.0	11104-28-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Alpha-BHC	2.20	ug/kg	2.20	ORPPB	8.0	11.0	319-84-6	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Beta-BHC	4.40	ug/kg	4.40	ORPPB	8.0	11.0	319-85-7	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Delta-BHC	6.60	ug/kg	6.60	ORPPB	8.0	11.0	319-86-8	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Alpha Chlordane	10.30	ug/kg	10.30	ORPPB	8.0	11.0	5103-71-9	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Gamma Chlordane	10.30	ug/kg	10.30	ORPPB	8.0	11.0	5103-74-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Endrin	4.40	ug/kg	4.40	ORPPB	8.0	11.0	72-20-8	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Methoxychlor	88.30	ug/kg	88.30	ORPPB	8.0	11.0	72-43-5	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	4,4'-DDD	8.10	ug/kg	8.10	ORPPB	8.0	11.0	72-54-8	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Endosulfan I	8.80	ug/kg	8.80	ORPPB	8.0	11.0	959-98-8	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Heptachlor Epoxide	9.80	ug/kg	9.80	ORPPB	0.0	2.0	1024-57-3	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Endosulfan Sulfate	19.50	ug/kg	19.50	ORPPB	0.0	2.0	1031-07-8	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Aroclor-1260	195.30	ug/kg	195.30	ORPPB	0.0	2.0	11096-82-5	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Aroclor-1016	97.70	ug/kg	97.70	ORPPB	0.0	2.0	12674-11-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Aldrin	3.30	ug/kg	3.30	ORPPB	0.0	2.0	309-00-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Delta-BHC	7.30	ug/kg	7.30	ORPPB	0.0	2.0	319-86-8	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Endosulfan II	3.30	ug/kg	3.30	ORPPB	0.0	2.0	33213-65-9	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Aroclor-1242	97.70	ug/kg	97.70	ORPPB	0.0	2.0	53469-21-9	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Endrin Ketone	19.50	ug/kg	19.50	ORPPB	0.0	2.0	53494-70-5	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Gamma-BHC (Lindane)	3.30	ug/kg	3.30	ORPPB	0.0	2.0	58-89-9	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Dieldrin	1.60	ug/kg	1.60	ORPPB	0.0	2.0	60-57-1	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	4,4'-DDE	3.30	ug/kg	3.30	ORPPB	0.0	2.0	72-55-9	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Endrin Aldehyde	18.70	ug/kg	18.70	ORPPB	0.0	2.0	7421-93-4	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Heptachlor	2.40	ug/kg	2.40	ORPPB	0.0	2.0	76-44-8	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Aroclor-1254	191.80	ug/kg	191.80	ORPPB	3.0	5.0	11097-69-1	U	UJ	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-1002	Borehole	19911119	Aroclor-1221	95.90	ug/kg	95.90	ORPPB	3.0	5.0	11104-28-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Aroclor-1232	95.90	ug/kg	95.90	ORPPB	3.0	5.0	11141-16-5	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Beta-BHC	4.80	ug/kg	4.80	ORPPB	3.0	5.0	319-85-7	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Delta-BHC	7.20	ug/kg	7.20	ORPPB	3.0	5.0	319-86-8	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Endosulfan II	3.20	ug/kg	3.20	ORPPB	3.0	5.0	33213-65-9	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Aroclor-1242	95.90	ug/kg	95.90	ORPPB	3.0	5.0	53469-21-9	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Endrin Ketone	19.20	ug/kg	19.20	ORPPB	3.0	5.0	53494-70-5	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	4,4'-DDD	8.80	ug/kg	8.80	ORPPB	3.0	5.0	72-54-8	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	4,4'-DDE	3.20	ug/kg	3.20	ORPPB	3.0	5.0	72-55-9	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Endrin Aldehyde	18.30	ug/kg	18.30	ORPPB	3.0	5.0	7421-93-4	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Heptachlor Epoxide	9.50	ug/kg	9.50	ORPPB	0.0	2.0	1024-57-3	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Endosulfan Sulfate	18.90	ug/kg	18.90	ORPPB	0.0	2.0	1031-07-8	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Aroclor-1260	189.10	ug/kg	189.10	ORPPB	0.0	2.0	11096-82-5	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Aroclor-1248	94.60	ug/kg	94.60	ORPPB	0.0	2.0	12672-29-6	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Aroclor-1016	94.60	ug/kg	94.60	ORPPB	0.0	2.0	12674-11-2	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Aldrin	3.20	ug/kg	3.20	ORPPB	0.0	2.0	309-00-2	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	4,4'-DDT	9.50	ug/kg	9.50	ORPPB	0.0	2.0	50-29-3	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Alpha Chlordane	11.00	ug/kg	11.00	ORPPB	0.0	2.0	5103-71-9	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Gamma Chlordane	11.00	ug/kg	11.00	ORPPB	0.0	2.0	5103-74-2	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Dieldrin	1.50	ug/kg	1.50	ORPPB	0.0	2.0	60-57-1	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Endrin	4.70	ug/kg	4.70	ORPPB	0.0	2.0	72-20-8	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Methoxychlor	94.60	ug/kg	94.60	ORPPB	0.0	2.0	72-43-5	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	4,4'-DDD	8.60	ug/kg	8.60	ORPPB	0.0	2.0	72-54-8	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Endosulfan I	9.50	ug/kg	9.50	ORPPB	0.0	2.0	959-98-8	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Heptachlor Epoxide	9.60	ug/kg	9.60	ORPPB	3.0	5.0	1024-57-3	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Endosulfan Sulfate	19.20	ug/kg	19.20	ORPPB	3.0	5.0	1031-07-8	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Aroclor-1248	95.90	ug/kg	95.90	ORPPB	3.0	5.0	12672-29-6	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Aroclor-1016	95.90	ug/kg	95.90	ORPPB	3.0	5.0	12674-11-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Aldrin	3.20	ug/kg	3.20	ORPPB	3.0	5.0	309-00-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	4,4'-DDT	9.60	ug/kg	9.60	ORPPB	3.0	5.0	50-29-3	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Alpha Chlordane	11.10	ug/kg	11.10	ORPPB	3.0	5.0	5103-71-9	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Gamma Chlordane	11.10	ug/kg	11.10	ORPPB	3.0	5.0	5103-74-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Gamma-BHC (Lindane)	3.20	ug/kg	3.20	ORPPB	3.0	5.0	58-89-9	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Dieldrin	1.60	ug/kg	1.60	ORPPB	3.0	5.0	60-57-1	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Endrin	4.80	ug/kg	4.80	ORPPB	3.0	5.0	72-20-8	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Heptachlor	2.40	ug/kg	2.40	ORPPB	3.0	5.0	76-44-8	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Toxaphene	191.80	ug/kg	191.80	ORPPB	3.0	5.0	8001-35-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Endosulfan I	9.60	ug/kg	9.60	ORPPB	3.0	5.0	959-98-8	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Heptachlor Epoxide	8.80	ug/kg	8.80	ORPPB	8.0	11.0	1024-57-3	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Endosulfan Sulfate	17.70	ug/kg	17.70	ORPPB	8.0	11.0	1031-07-8	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Aroclor-1248	88.30	ug/kg	88.30	ORPPB	8.0	11.0	12672-29-6	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Aroclor-1016	88.30	ug/kg	88.30	ORPPB	8.0	11.0	12674-11-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Aldrin	3.00	ug/kg	3.00	ORPPB	8.0	11.0	309-00-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Endosulfan II	3.00	ug/kg	3.00	ORPPB	8.0	11.0	33213-65-9	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	4,4'-DDT	8.80	ug/kg	8.80	ORPPB	8.0	11.0	50-29-3	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Endrin Ketone	17.70	ug/kg	17.70	ORPPB	8.0	11.0	53494-70-5	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Gamma-BHC (Lindane)	3.00	ug/kg	3.00	ORPPB	8.0	11.0	58-89-9	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Dieldrin	1.40	ug/kg	1.40	ORPPB	8.0	11.0	60-57-1	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Endrin Aldehyde	16.90	ug/kg	16.90	ORPPB	8.0	11.0	7421-93-4	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Heptachlor	2.20	ug/kg	2.20	ORPPB	8.0	11.0	76-44-8	U	UJ	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-0003	Borehole	19911119	Toxaphene	176.60	ug/kg	176.60	ORPPB	8.0	11.0	8001-35-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Aroclor-1221	97.70	ug/kg	97.70	ORPPB	0.0	2.0	11104-28-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Aroclor-1232	97.70	ug/kg	97.70	ORPPB	0.0	2.0	11141-16-5	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Aroclor-1248	97.70	ug/kg	97.70	ORPPB	0.0	2.0	12672-29-6	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Alpha-BHC	2.40	ug/kg	2.40	ORPPB	0.0	2.0	319-84-6	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Beta-BHC	4.90	ug/kg	4.90	ORPPB	0.0	2.0	319-85-7	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Alpha Chlordane	11.40	ug/kg	11.40	ORPPB	0.0	2.0	5103-71-9	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Gamma Chlordane	11.40	ug/kg	11.40	ORPPB	0.0	2.0	5103-74-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Endrin	4.90	ug/kg	4.90	ORPPB	0.0	2.0	72-20-8	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Methoxychlor	97.70	ug/kg	97.70	ORPPB	0.0	2.0	72-43-5	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	4,4'-DDD	8.90	ug/kg	8.90	ORPPB	0.0	2.0	72-54-8	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Endosulfan I	9.80	ug/kg	9.80	ORPPB	0.0	2.0	959-98-8	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Heptachlor Epoxide	9.60	ug/kg	9.60	ORPPB	3.0	5.0	1024-57-3	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Endosulfan Sulfate	19.20	ug/kg	19.20	ORPPB	3.0	5.0	1031-07-8	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Aroclor-1260	191.80	ug/kg	191.80	ORPPB	3.0	5.0	11096-82-5	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Aroclor-1016	95.90	ug/kg	95.90	ORPPB	3.0	5.0	12674-11-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Aldrin	3.20	ug/kg	3.20	ORPPB	3.0	5.0	309-00-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Alpha-BHC	2.40	ug/kg	2.40	ORPPB	3.0	5.0	319-84-6	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Alpha Chlordane	11.10	ug/kg	11.10	ORPPB	3.0	5.0	5103-71-9	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Gamma Chlordane	11.10	ug/kg	11.10	ORPPB	3.0	5.0	5103-74-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Dieldrin	1.60	ug/kg	1.60	ORPPB	3.0	5.0	60-57-1	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Endrin	4.80	ug/kg	4.80	ORPPB	3.0	5.0	72-20-8	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Methoxychlor	95.90	ug/kg	95.90	ORPPB	3.0	5.0	72-43-5	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Toxaphene	191.80	ug/kg	191.80	ORPPB	3.0	5.0	8001-35-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Endosulfan I	9.60	ug/kg	9.60	ORPPB	3.0	5.0	959-98-8	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Aroclor-1232	94.60	ug/kg	94.60	ORPPB	0.0	2.0	11141-16-5	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Endosulfan II	3.20	ug/kg	3.20	ORPPB	0.0	2.0	33213-65-9	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Toxaphene	189.10	ug/kg	189.10	ORPPB	0.0	2.0	8001-35-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Endosulfan II	3.20	ug/kg	3.20	ORPPB	3.0	5.0	33213-65-9	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Endrin Ketone	19.20	ug/kg	19.20	ORPPB	3.0	5.0	53494-70-5	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Endrin Aldehyde	18.30	ug/kg	18.30	ORPPB	3.0	5.0	7421-93-4	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Aroclor-1232	88.30	ug/kg	88.30	ORPPB	8.0	11.0	11141-16-5	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Aroclor-1242	88.30	ug/kg	88.30	ORPPB	8.0	11.0	53469-21-9	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	4,4'-DDE	3.00	ug/kg	3.00	ORPPB	8.0	11.0	72-55-9	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Aroclor-1254	195.30	ug/kg	195.30	ORPPB	0.0	2.0	11097-69-1	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	4,4'-DDT	9.80	ug/kg	9.80	ORPPB	0.0	2.0	50-29-3	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Toxaphene	195.30	ug/kg	195.30	ORPPB	0.0	2.0	8001-35-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Aroclor-1248	95.90	ug/kg	95.90	ORPPB	3.0	5.0	12672-29-6	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	4,4'-DDT	9.60	ug/kg	9.60	ORPPB	3.0	5.0	50-29-3	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Gamma-BHC (Lindane)	3.20	ug/kg	3.20	ORPPB	3.0	5.0	58-89-9	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Heptachlor	2.40	ug/kg	2.40	ORPPB	3.0	5.0	76-44-8	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	4-Nitroaniline	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	100-01-6	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2,4-Dimethylphenol	400.00	ug/kg	400.00	ORSVO	0.0	2.0	105-67-9	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	4-Methylphenol	400.00	ug/kg	400.00	ORSVO	0.0	2.0	106-44-5	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,4-Dichlorobenzene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	106-46-7	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	4-Chloroaniline	400.00	ug/kg	400.00	ORSVO	0.0	2.0	106-47-8	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Di-n-octyl Phthalate	400.00	ug/kg	400.00	ORSVO	0.0	2.0	117-84-0	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2,4-Dichlorophenol	400.00	ug/kg	400.00	ORSVO	0.0	2.0	120-83-2	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2,4-Dinitrotoluene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	121-14-2	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Benzo(b)fluoranthene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	205-99-2	U	UJ	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-0001	Borehole	19911119	2,4-Dinitrophenol	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	51-28-5	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	4,6-Dinitro-o-Cresol	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	534-52-1	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2,6-Dinitrotoluene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	606-20-2	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	N-Nitroso-di-n-propylamine	400.00	ug/kg	400.00	ORSVO	0.0	2.0	621-64-7	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Benzoic Acid	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	65-85-0	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Acenaphthene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	83-32-9	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Diethyl Phthalate	400.00	ug/kg	400.00	ORSVO	0.0	2.0	84-66-2	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Hexachlorobutadiene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	87-68-3	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2-Nitrophenol	400.00	ug/kg	400.00	ORSVO	0.0	2.0	88-75-5	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Naphthalene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	91-20-3	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2-Methylnaphthalene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	91-57-6	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2-Chlorophenol	400.00	ug/kg	400.00	ORSVO	0.0	2.0	95-57-8	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2,4,5-Trichlorophenol	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	95-95-4	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Nitrobenzene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	98-95-3	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	4-Nitrophenol	1900.00	ug/kg	1900.00	ORSVO	3.0	5.0	100-02-7	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,4-Dichlorobenzene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	106-46-7	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	4-Chloroaniline	390.00	ug/kg	390.00	ORSVO	3.0	5.0	106-47-8	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2,2'-oxybis(1-chloropropane)	390.00	ug/kg	390.00	ORSVO	3.0	5.0	108-60-1	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Di-n-octyl Phthalate	390.00	ug/kg	390.00	ORSVO	3.0	5.0	117-84-0	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Hexachlorobenzene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	118-74-1	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Anthracene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	120-12-7	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Dibenzofuran	390.00	ug/kg	390.00	ORSVO	3.0	5.0	132-64-9	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Benzo(g,h,i)perylene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	191-24-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Benzo(k)fluoranthene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	207-08-9	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Acenaphthylene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	208-96-8	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Chrysene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	218-01-9	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,3-Dichlorobenzene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	541-73-1	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Benzo(a)anthracene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	56-55-3	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	4-Chloro-3-methylphenol	390.00	ug/kg	390.00	ORSVO	3.0	5.0	59-50-7	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Hexachloroethane	390.00	ug/kg	390.00	ORSVO	3.0	5.0	67-72-1	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1-chloro-4-phenoxybenzene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	7005-72-3	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Hexachlorocyclopentadiene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	77-47-4	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Isophorone	390.00	ug/kg	390.00	ORSVO	3.0	5.0	78-59-1	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Phenanthrene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	85-01-8	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Butyl Benzyl Phthalate	390.00	ug/kg	390.00	ORSVO	3.0	5.0	85-68-7	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	N-Nitrosodiphenylamine	390.00	ug/kg	390.00	ORSVO	3.0	5.0	86-30-6	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Fluorene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	86-73-7	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2-Nitroaniline	1900.00	ug/kg	1900.00	ORSVO	3.0	5.0	88-74-4	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2-Nitrophenol	390.00	ug/kg	390.00	ORSVO	3.0	5.0	88-75-5	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Naphthalene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	91-20-3	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2,4,5-Trichlorophenol	1900.00	ug/kg	1900.00	ORSVO	3.0	5.0	95-95-4	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Nitrobenzene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	98-95-3	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2,4-Dimethylphenol	370.00	ug/kg	370.00	ORSVO	8.0	11.0	105-67-9	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	4-Methylphenol	370.00	ug/kg	370.00	ORSVO	8.0	11.0	106-44-5	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,4-Dichlorobenzene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	106-46-7	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Bis(2-chloroethoxy)methane	370.00	ug/kg	370.00	ORSVO	8.0	11.0	111-91-1	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2,4-Dichlorophenol	370.00	ug/kg	370.00	ORSVO	8.0	11.0	120-83-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2,4-Dinitrotoluene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	121-14-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Pyrene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	129-00-0	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Benzo(b)fluoranthene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	205-99-2	U	UJ	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-0003	Borehole	19911119	Fluoranthene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	206-44-0	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2,4-Dinitrophenol	1800.00	ug/kg	1800.00	ORSVO	8.0	11.0	51-28-5	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Dibenz(a,h)anthracene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	53-70-3	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	4,6-Dinitro-o-Cresol	1800.00	ug/kg	1800.00	ORSVO	8.0	11.0	534-52-1	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Benzo(a)anthracene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	56-55-3	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	4-Chloro-3-methylphenol	370.00	ug/kg	370.00	ORSVO	8.0	11.0	59-50-7	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Hexachloroethane	370.00	ug/kg	370.00	ORSVO	8.0	11.0	67-72-1	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1-chloro-4-phenoxybenzene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	7005-72-3	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Hexachlorocyclopentadiene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	77-47-4	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Phenanthrene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	85-01-8	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Butyl Benzyl Phthalate	370.00	ug/kg	370.00	ORSVO	8.0	11.0	85-68-7	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	N-Nitrosodiphenylamine	370.00	ug/kg	370.00	ORSVO	8.0	11.0	86-30-6	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2-Nitroaniline	1800.00	ug/kg	1800.00	ORSVO	8.0	11.0	88-74-4	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Naphthalene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	91-20-3	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2-Methylnaphthalene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	91-57-6	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,2-Dichlorobenzene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	95-50-1	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2-Chlorophenol	370.00	ug/kg	370.00	ORSVO	8.0	11.0	95-57-8	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2,4,5-Trichlorophenol	1800.00	ug/kg	1800.00	ORSVO	8.0	11.0	95-95-4	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Nitrobenzene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	98-95-3	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	4-Nitroaniline	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	100-01-6	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	4-Nitrophenol	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	100-02-7	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Benzyl Alcohol	390.00	ug/kg	390.00	ORSVO	0.0	2.0	100-51-6	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	4-Chloroaniline	390.00	ug/kg	390.00	ORSVO	0.0	2.0	106-47-8	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2,2'-oxybis(1-chloropropane)	390.00	ug/kg	390.00	ORSVO	0.0	2.0	108-60-1	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Bis(2-chloroethyl)ether	390.00	ug/kg	390.00	ORSVO	0.0	2.0	111-44-4	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Bis(2-chloroethoxy)methane	390.00	ug/kg	390.00	ORSVO	0.0	2.0	111-91-1	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,2,4-Trichlorobenzene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	120-82-1	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2,4-Dichlorophenol	390.00	ug/kg	390.00	ORSVO	0.0	2.0	120-83-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2,4-Dinitrotoluene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	121-14-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Benzo(b)fluoranthene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	205-99-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	4,6-Dinitro-o-Cresol	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	534-52-1	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,3-Dichlorobenzene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	541-73-1	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	N-Nitroso-di-n-propylamine	390.00	ug/kg	390.00	ORSVO	0.0	2.0	621-64-7	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Benzoic Acid	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	65-85-0	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Hexachloroethane	390.00	ug/kg	390.00	ORSVO	0.0	2.0	67-72-1	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Acenaphthene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	83-32-9	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Diethyl Phthalate	390.00	ug/kg	390.00	ORSVO	0.0	2.0	84-66-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Hexachlorobutadiene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	87-68-3	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Pentachlorophenol	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	87-86-5	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2-Nitroaniline	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	88-74-4	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2-Nitrophenol	390.00	ug/kg	390.00	ORSVO	0.0	2.0	88-75-5	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	3,3'-Dichlorobenzidine	780.00	ug/kg	780.00	ORSVO	0.0	2.0	91-94-1	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2-Methylphenol	390.00	ug/kg	390.00	ORSVO	0.0	2.0	95-48-7	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,2-Dichlorobenzene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	95-50-1	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2-Chlorophenol	390.00	ug/kg	390.00	ORSVO	0.0	2.0	95-57-8	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2,4-Dimethylphenol	370.00	ug/kg	370.00	ORSVO	3.0	5.0	105-67-9	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	4-Methylphenol	370.00	ug/kg	370.00	ORSVO	3.0	5.0	106-44-5	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,4-Dichlorobenzene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	106-46-7	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Bis(2-chloroethoxy)methane	370.00	ug/kg	370.00	ORSVO	3.0	5.0	111-91-1	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Di-n-octyl Phthalate	370.00	ug/kg	370.00	ORSVO	3.0	5.0	117-84-0	U	UJ	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-1002	Borehole	19911119	Hexachlorobenzene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	118-74-1	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2,4-Dinitrotoluene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	121-14-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Pyrene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	129-00-0	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Indeno(1,2,3-cd)pyrene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	193-39-5	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Benzo(b)fluoranthene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	205-99-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Fluoranthene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	206-44-0	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Benzo(a)pyrene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	50-32-8	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2,4-Dinitrophenol	1800.00	ug/kg	1800.00	ORSVO	3.0	5.0	51-28-5	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Dibenz(a,h)anthracene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	53-70-3	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	4,6-Dinitro-o-Cresol	1800.00	ug/kg	1800.00	ORSVO	3.0	5.0	534-52-1	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	4-Chloro-3-methylphenol	370.00	ug/kg	370.00	ORSVO	3.0	5.0	59-50-7	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Hexachloroethane	370.00	ug/kg	370.00	ORSVO	3.0	5.0	67-72-1	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1-chloro-4-phenoxybenzene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	7005-72-3	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Acenaphthene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	83-32-9	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Diethyl Phthalate	370.00	ug/kg	370.00	ORSVO	3.0	5.0	84-66-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Di-n-butyl Phthalate	370.00	ug/kg	370.00	ORSVO	3.0	5.0	84-74-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Hexachlorobutadiene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	87-68-3	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Pentachlorophenol	1800.00	ug/kg	1800.00	ORSVO	3.0	5.0	87-86-5	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2,4,6-Trichlorophenol	370.00	ug/kg	370.00	ORSVO	3.0	5.0	88-06-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2-Chloronaphthalene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	91-58-7	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	3,3'-Dichlorobenzidine	750.00	ug/kg	750.00	ORSVO	3.0	5.0	91-94-1	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2-Chlorophenol	370.00	ug/kg	370.00	ORSVO	3.0	5.0	95-57-8	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2,4,5-Trichlorophenol	1800.00	ug/kg	1800.00	ORSVO	3.0	5.0	95-95-4	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Nitrobenzene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	98-95-3	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Benzyl Alcohol	400.00	ug/kg	400.00	ORSVO	0.0	2.0	100-51-6	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	4-Bromophenyl-phenyl Ether	400.00	ug/kg	400.00	ORSVO	0.0	2.0	101-55-3	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2,2'-oxybis(1-chloropropane)	400.00	ug/kg	400.00	ORSVO	0.0	2.0	108-60-1	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Phenol	400.00	ug/kg	400.00	ORSVO	0.0	2.0	108-95-2	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Bis(2-chloroethyl)ether	400.00	ug/kg	400.00	ORSVO	0.0	2.0	111-44-4	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Bis(2-chloroethoxy)methane	400.00	ug/kg	400.00	ORSVO	0.0	2.0	111-91-1	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Anthracene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	120-12-7	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,2,4-Trichlorobenzene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	120-82-1	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Dibenzofuran	400.00	ug/kg	400.00	ORSVO	0.0	2.0	132-64-9	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Benzo(k)fluoranthene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	207-08-9	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Acenaphthylene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	208-96-8	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Chrysene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	218-01-9	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,3-Dichlorobenzene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	541-73-1	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Benzo(a)anthracene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	56-55-3	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	4-Chloro-3-methylphenol	400.00	ug/kg	400.00	ORSVO	0.0	2.0	59-50-7	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1-chloro-4-phenoxybenzene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	7005-72-3	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Hexachlorocyclopentadiene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	77-47-4	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Isophorone	400.00	ug/kg	400.00	ORSVO	0.0	2.0	78-59-1	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	N-Nitrosodiphenylamine	400.00	ug/kg	400.00	ORSVO	0.0	2.0	86-30-6	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Fluorene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	86-73-7	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Pentachlorophenol	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	87-86-5	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2,4,6-Trichlorophenol	400.00	ug/kg	400.00	ORSVO	0.0	2.0	88-06-2	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2-Nitroaniline	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	88-74-4	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	3,3'-Dichlorobenzidine	790.00	ug/kg	790.00	ORSVO	0.0	2.0	91-94-1	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2-Methylphenol	400.00	ug/kg	400.00	ORSVO	0.0	2.0	95-48-7	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,2-Dichlorobenzene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	95-50-1	U	UJ	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-0001	Borehole	19911119	3-Nitroaniline	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	99-09-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	4-Nitroaniline	1900.00	ug/kg	1900.00	ORSVO	3.0	5.0	100-01-6	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	4-Bromophenyl-phenyl Ether	390.00	ug/kg	390.00	ORSVO	3.0	5.0	101-55-3	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2,4-Dimethylphenol	390.00	ug/kg	390.00	ORSVO	3.0	5.0	105-67-9	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	4-Methylphenol	390.00	ug/kg	390.00	ORSVO	3.0	5.0	106-44-5	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Bis(2-chloroethyl)ether	390.00	ug/kg	390.00	ORSVO	3.0	5.0	111-44-4	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Bis(2-chloroethoxy)methane	390.00	ug/kg	390.00	ORSVO	3.0	5.0	111-91-1	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2,4-Dichlorophenol	390.00	ug/kg	390.00	ORSVO	3.0	5.0	120-83-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2,4-Dinitrotoluene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	121-14-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Dimethyl Phthalate	390.00	ug/kg	390.00	ORSVO	3.0	5.0	131-11-3	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Benzo(b)fluoranthene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	205-99-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Fluoranthene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	206-44-0	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2,4-Dinitrophenol	1900.00	ug/kg	1900.00	ORSVO	3.0	5.0	51-28-5	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Dibenz(a,h)anthracene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	53-70-3	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	4,6-Dinitro-o-Cresol	1900.00	ug/kg	1900.00	ORSVO	3.0	5.0	534-52-1	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	N-Nitroso-di-n-propylamine	390.00	ug/kg	390.00	ORSVO	3.0	5.0	621-64-7	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Benzoic Acid	1900.00	ug/kg	1900.00	ORSVO	3.0	5.0	65-85-0	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Diethyl Phthalate	390.00	ug/kg	390.00	ORSVO	3.0	5.0	84-66-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Di-n-butyl Phthalate	390.00	ug/kg	390.00	ORSVO	3.0	5.0	84-74-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Hexachlorobutadiene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	87-68-3	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Pentachlorophenol	1900.00	ug/kg	1900.00	ORSVO	3.0	5.0	87-86-5	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2,4,6-Trichlorophenol	390.00	ug/kg	390.00	ORSVO	3.0	5.0	88-06-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2-Chloronaphthalene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	91-58-7	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	3,3'-Dichlorobenzidine	770.00	ug/kg	770.00	ORSVO	3.0	5.0	91-94-1	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2-Methylphenol	390.00	ug/kg	390.00	ORSVO	3.0	5.0	95-48-7	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,2-Dichlorobenzene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	95-50-1	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2-Chlorophenol	390.00	ug/kg	390.00	ORSVO	3.0	5.0	95-57-8	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	4-Nitrophenol	1800.00	ug/kg	1800.00	ORSVO	8.0	11.0	100-02-7	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Benzyl Alcohol	370.00	ug/kg	370.00	ORSVO	8.0	11.0	100-51-6	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	4-Bromophenyl-phenyl Ether	370.00	ug/kg	370.00	ORSVO	8.0	11.0	101-55-3	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2,2'-oxybis(1-chloropropane)	370.00	ug/kg	370.00	ORSVO	8.0	11.0	108-60-1	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Phenol	370.00	ug/kg	370.00	ORSVO	8.0	11.0	108-95-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Bis(2-chloroethyl)ether	370.00	ug/kg	370.00	ORSVO	8.0	11.0	111-44-4	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Hexachlorobenzene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	118-74-1	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Anthracene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	120-12-7	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,2,4-Trichlorobenzene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	120-82-1	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Dimethyl Phthalate	370.00	ug/kg	370.00	ORSVO	8.0	11.0	131-11-3	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Dibenzofuran	370.00	ug/kg	370.00	ORSVO	8.0	11.0	132-64-9	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Benzo(g,h,i)perylene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	191-24-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Indeno(1,2,3-cd)pyrene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	193-39-5	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Acenaphthylene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	208-96-8	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Chrysene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	218-01-9	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Benzo(a)pyrene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	50-32-8	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,3-Dichlorobenzene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	541-73-1	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2,6-Dinitrotoluene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	606-20-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Benzoic Acid	1800.00	ug/kg	1800.00	ORSVO	8.0	11.0	65-85-0	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Acenaphthene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	83-32-9	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Diethyl Phthalate	370.00	ug/kg	370.00	ORSVO	8.0	11.0	84-66-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Di-n-butyl Phthalate	370.00	ug/kg	370.00	ORSVO	8.0	11.0	84-74-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Hexachlorobutadiene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	87-68-3	U	UJ	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-0003	Borehole	19911119	Pentachlorophenol	1800.00	ug/kg	1800.00	ORSVO	8.0	11.0	87-86-5	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2,4,6-Trichlorophenol	370.00	ug/kg	370.00	ORSVO	8.0	11.0	88-06-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2-Nitrophenol	370.00	ug/kg	370.00	ORSVO	8.0	11.0	88-75-5	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	3,3'-Dichlorobenzidine	730.00	ug/kg	730.00	ORSVO	8.0	11.0	91-94-1	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2-Methylphenol	370.00	ug/kg	370.00	ORSVO	8.0	11.0	95-48-7	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	3-Nitroaniline	1800.00	ug/kg	1800.00	ORSVO	8.0	11.0	99-09-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	4-Bromophenyl-phenyl Ether	390.00	ug/kg	390.00	ORSVO	0.0	2.0	101-55-3	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2,4-Dimethylphenol	390.00	ug/kg	390.00	ORSVO	0.0	2.0	105-67-9	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	4-Methylphenol	390.00	ug/kg	390.00	ORSVO	0.0	2.0	106-44-5	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,4-Dichlorobenzene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	106-46-7	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Phenol	390.00	ug/kg	390.00	ORSVO	0.0	2.0	108-95-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Di-n-octyl Phthalate	390.00	ug/kg	390.00	ORSVO	0.0	2.0	117-84-0	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Hexachlorobenzene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	118-74-1	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Anthracene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	120-12-7	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Dibenzofuran	390.00	ug/kg	390.00	ORSVO	0.0	2.0	132-64-9	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Benzo(k)fluoranthene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	207-08-9	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Acenaphthylene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	208-96-8	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Chrysene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	218-01-9	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2,4-Dinitrophenol	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	51-28-5	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	4-Chloro-3-methylphenol	390.00	ug/kg	390.00	ORSVO	0.0	2.0	59-50-7	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2,6-Dinitrotoluene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	606-20-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1-chloro-4-phenoxybenzene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	7005-72-3	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Hexachlorocyclopentadiene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	77-47-4	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Isophorone	390.00	ug/kg	390.00	ORSVO	0.0	2.0	78-59-1	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	N-Nitrosodiphenylamine	390.00	ug/kg	390.00	ORSVO	0.0	2.0	86-30-6	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Fluorene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	86-73-7	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2,4,6-Trichlorophenol	390.00	ug/kg	390.00	ORSVO	0.0	2.0	88-06-2	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2-Methylnaphthalene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	91-57-6	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2-Chloronaphthalene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	91-58-7	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2,4,5-Trichlorophenol	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	95-95-4	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Nitrobenzene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	98-95-3	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	3-Nitroaniline	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	99-09-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	4-Nitrophenol	1800.00	ug/kg	1800.00	ORSVO	3.0	5.0	100-02-7	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Benzyl Alcohol	370.00	ug/kg	370.00	ORSVO	3.0	5.0	100-51-6	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	4-Bromophenyl-phenyl Ether	370.00	ug/kg	370.00	ORSVO	3.0	5.0	101-55-3	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2,2'-oxybis(1-chloropropane)	370.00	ug/kg	370.00	ORSVO	3.0	5.0	108-60-1	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Phenol	370.00	ug/kg	370.00	ORSVO	3.0	5.0	108-95-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Bis(2-chloroethyl)ether	370.00	ug/kg	370.00	ORSVO	3.0	5.0	111-44-4	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,2,4-Trichlorobenzene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	120-82-1	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2,4-Dichlorophenol	370.00	ug/kg	370.00	ORSVO	3.0	5.0	120-83-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Dimethyl Phthalate	370.00	ug/kg	370.00	ORSVO	3.0	5.0	131-11-3	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Dibenzofuran	370.00	ug/kg	370.00	ORSVO	3.0	5.0	132-64-9	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Benzo(g,h,i)perylene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	191-24-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Benzo(k)fluoranthene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	207-08-9	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Acenaphthylene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	208-96-8	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Chrysene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	218-01-9	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,3-Dichlorobenzene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	541-73-1	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Benzo(a)anthracene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	56-55-3	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	N-Nitroso-di-n-propylamine	370.00	ug/kg	370.00	ORSVO	3.0	5.0	621-64-7	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Benzoic Acid	1800.00	ug/kg	1800.00	ORSVO	3.0	5.0	65-85-0	U	UJ	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-1002	Borehole	19911119	Hexachlorocyclopentadiene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	77-47-4	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Isophorone	370.00	ug/kg	370.00	ORSVO	3.0	5.0	78-59-1	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Butyl Benzyl Phthalate	370.00	ug/kg	370.00	ORSVO	3.0	5.0	85-68-7	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	N-Nitrosodiphenylamine	370.00	ug/kg	370.00	ORSVO	3.0	5.0	86-30-6	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Fluorene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	86-73-7	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2-Nitrophenol	370.00	ug/kg	370.00	ORSVO	3.0	5.0	88-75-5	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Naphthalene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	91-20-3	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2-Methylnaphthalene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	91-57-6	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2-Methylphenol	370.00	ug/kg	370.00	ORSVO	3.0	5.0	95-48-7	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,2-Dichlorobenzene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	95-50-1	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	4-Nitrophenol	1900.00	ug/kg	1900.00	ORSVO	0.0	2.0	100-02-7	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Hexachloroethane	400.00	ug/kg	400.00	ORSVO	0.0	2.0	67-72-1	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2-Chloronaphthalene	400.00	ug/kg	400.00	ORSVO	0.0	2.0	91-58-7	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Benzyl Alcohol	390.00	ug/kg	390.00	ORSVO	3.0	5.0	100-51-6	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Phenol	390.00	ug/kg	390.00	ORSVO	3.0	5.0	108-95-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,2,4-Trichlorobenzene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	120-82-1	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Pyrene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	129-00-0	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Indeno(1,2,3-cd)pyrene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	193-39-5	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Benzo(a)pyrene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	50-32-8	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2,6-Dinitrotoluene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	606-20-2	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Acenaphthene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	83-32-9	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2-Methylnaphthalene	390.00	ug/kg	390.00	ORSVO	3.0	5.0	91-57-6	U	UJ	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	3-Nitroaniline	1900.00	ug/kg	1900.00	ORSVO	3.0	5.0	99-09-2	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	4-Nitroaniline	1800.00	ug/kg	1800.00	ORSVO	8.0	11.0	100-01-6	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	4-Chloroaniline	370.00	ug/kg	370.00	ORSVO	8.0	11.0	106-47-8	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Di-n-octyl Phthalate	370.00	ug/kg	370.00	ORSVO	8.0	11.0	117-84-0	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Benzo(k)fluoranthene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	207-08-9	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Isophorone	370.00	ug/kg	370.00	ORSVO	8.0	11.0	78-59-1	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Fluorene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	86-73-7	U	UJ	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2-Chloronaphthalene	370.00	ug/kg	370.00	ORSVO	8.0	11.0	91-58-7	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Benzo(a)anthracene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	56-55-3	U	UJ	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Naphthalene	390.00	ug/kg	390.00	ORSVO	0.0	2.0	91-20-3	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	4-Nitroaniline	1800.00	ug/kg	1800.00	ORSVO	3.0	5.0	100-01-6	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	4-Chloroaniline	370.00	ug/kg	370.00	ORSVO	3.0	5.0	106-47-8	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Anthracene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	120-12-7	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2,6-Dinitrotoluene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	606-20-2	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Phenanthrene	370.00	ug/kg	370.00	ORSVO	3.0	5.0	85-01-8	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2-Nitroaniline	1800.00	ug/kg	1800.00	ORSVO	3.0	5.0	88-74-4	U	UJ	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	3-Nitroaniline	1800.00	ug/kg	1800.00	ORSVO	3.0	5.0	99-09-2	U	UJ	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Dichloromethane (Methylene Chloride)	6.00	ug/kg	6.00	ORVOA	0.0	2.0	75-09-2	B	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Acetone	15.00	ug/kg	11.00	ORVOA	3.0	5.0	67-64-1	B	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2-Butanone	12.00	ug/kg	12.00	ORVOA	0.0	2.0	78-93-3	JB	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Acetone	12.00	ug/kg	11.00	ORVOA	3.0	5.0	67-64-1	JB	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Acetone	11.00	ug/kg	11.00	ORVOA	8.0	11.0	67-64-1	JB	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Dichloromethane (Methylene Chloride)	5.00	ug/kg	5.00	ORVOA	8.0	11.0	75-09-2	JB	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Dichloromethane (Methylene Chloride)	6.00	ug/kg	6.00	ORVOA	0.0	2.0	75-09-2	JB	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Dichloromethane (Methylene Chloride)	6.00	ug/kg	6.00	ORVOA	3.0	5.0	75-09-2	JB	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2-Butanone	12.00	ug/kg	11.00	ORVOA	3.0	5.0	78-93-3	JB	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2-Butanone	11.00	ug/kg	11.00	ORVOA	8.0	11.0	78-93-3	JB	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Acetone	12.00	ug/kg	12.00	ORVOA	0.0	2.0	67-64-1	JB	U	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-1002	Borehole	19911119	Dichloromethane (Methylene Chloride)	6.00	ug/kg	6.00	ORVOA	3.0	5.0	75-09-2	JB	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2-Butanone	11.00	ug/kg	11.00	ORVOA	3.0	5.0	78-93-3	JB	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Acetone	12.00	ug/kg	12.00	ORVOA	0.0	2.0	67-64-1	JB	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Ethylbenzene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	100-41-4	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,3-trans-Dichloropropene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	10061-02-6	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Vinyl Acetate	12.00	ug/kg	12.00	ORVOA	0.0	2.0	108-05-4	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	4-Methyl-2-pentanone	12.00	ug/kg	12.00	ORVOA	0.0	2.0	108-10-1	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Dibromochloromethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	124-48-1	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Tetrachloroethene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	127-18-4	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Carbon Tetrachloride	6.00	ug/kg	6.00	ORVOA	0.0	2.0	56-23-5	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	2-Hexanone	12.00	ug/kg	12.00	ORVOA	0.0	2.0	591-78-6	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Benzene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	71-43-2	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,1,1-Trichloroethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	71-55-6	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Vinyl Chloride	12.00	ug/kg	12.00	ORVOA	0.0	2.0	75-01-4	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Bromoform	6.00	ug/kg	6.00	ORVOA	0.0	2.0	75-25-2	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Bromodichloromethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	75-27-4	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,2-Dichloropropane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	78-87-5	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,1,2,2-Tetrachloroethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	79-34-5	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Ethylbenzene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	100-41-4	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Styrene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	100-42-5	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	4-Methyl-2-pentanone	11.00	ug/kg	11.00	ORVOA	3.0	5.0	108-10-1	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Toluene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	108-88-3	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Chlorobenzene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	108-90-7	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Carbon Tetrachloride	6.00	ug/kg	6.00	ORVOA	3.0	5.0	56-23-5	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	2-Hexanone	11.00	ug/kg	11.00	ORVOA	3.0	5.0	591-78-6	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Bromomethane	11.00	ug/kg	11.00	ORVOA	3.0	5.0	74-83-9	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Chloromethane	11.00	ug/kg	11.00	ORVOA	3.0	5.0	74-87-3	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Chloroethane	11.00	ug/kg	11.00	ORVOA	3.0	5.0	75-00-3	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Bromodichloromethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	75-27-4	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,1-Dichloroethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	75-34-3	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,1-Dichloroethene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	75-35-4	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,3-cis-Dichloropropene	5.00	ug/kg	5.00	ORVOA	8.0	11.0	10061-01-5	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,3-trans-Dichloropropene	5.00	ug/kg	5.00	ORVOA	8.0	11.0	10061-02-6	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,2-Dichloroethane	5.00	ug/kg	5.00	ORVOA	8.0	11.0	107-06-2	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Vinyl Acetate	11.00	ug/kg	11.00	ORVOA	8.0	11.0	108-05-4	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Chlorobenzene	5.00	ug/kg	5.00	ORVOA	8.0	11.0	108-90-7	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Dibromochloromethane	5.00	ug/kg	5.00	ORVOA	8.0	11.0	124-48-1	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Tetrachloroethene	5.00	ug/kg	5.00	ORVOA	8.0	11.0	127-18-4	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Trichloromethane	5.00	ug/kg	5.00	ORVOA	8.0	11.0	67-66-3	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Benzene	5.00	ug/kg	5.00	ORVOA	8.0	11.0	71-43-2	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Vinyl Chloride	11.00	ug/kg	11.00	ORVOA	8.0	11.0	75-01-4	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Carbon Disulfide	5.00	ug/kg	5.00	ORVOA	8.0	11.0	75-15-0	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Bromoform	5.00	ug/kg	5.00	ORVOA	8.0	11.0	75-25-2	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Bromodichloromethane	5.00	ug/kg	5.00	ORVOA	8.0	11.0	75-27-4	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,1,2-Trichloroethane	5.00	ug/kg	5.00	ORVOA	8.0	11.0	79-00-5	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Trichloroethylene (TCE)	5.00	ug/kg	5.00	ORVOA	8.0	11.0	79-01-6	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,1,2,2-Tetrachloroethane	5.00	ug/kg	5.00	ORVOA	8.0	11.0	79-34-5	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Ethylbenzene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	100-41-4	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,2-Dichloroethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	107-06-2	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Vinyl Acetate	12.00	ug/kg	12.00	ORVOA	0.0	2.0	108-05-4	U	U	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-1001	Borehole	19911119	4-Methyl-2-pentanone	12.00	ug/kg	12.00	ORVOA	0.0	2.0	108-10-1	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Toluene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	108-88-3	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Xylenes, Total	6.00	ug/kg	6.00	ORVOA	0.0	2.0	1330-20-7	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,2-Dichloroethene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	540-59-0	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Carbon Tetrachloride	6.00	ug/kg	6.00	ORVOA	0.0	2.0	56-23-5	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,1,1-Trichloroethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	71-55-6	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Bromomethane	12.00	ug/kg	12.00	ORVOA	0.0	2.0	74-83-9	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Chloromethane	12.00	ug/kg	12.00	ORVOA	0.0	2.0	74-87-3	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Carbon Disulfide	6.00	ug/kg	6.00	ORVOA	0.0	2.0	75-15-0	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,1-Dichloroethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	75-34-3	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,1-Dichloroethene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	75-35-4	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,2-Dichloropropane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	78-87-5	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Ethylbenzene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	100-41-4	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,3-trans-Dichloropropene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	10061-02-6	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,2-Dichloroethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	107-06-2	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Vinyl Acetate	11.00	ug/kg	11.00	ORVOA	3.0	5.0	108-05-4	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	4-Methyl-2-pentanone	11.00	ug/kg	11.00	ORVOA	3.0	5.0	108-10-1	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Tetrachloroethene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	127-18-4	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Xylenes, Total	6.00	ug/kg	6.00	ORVOA	3.0	5.0	1330-20-7	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,2-Dichloroethene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	540-59-0	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Benzene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	71-43-2	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,1,1-Trichloroethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	71-55-6	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Bromomethane	11.00	ug/kg	11.00	ORVOA	3.0	5.0	74-83-9	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Carbon Disulfide	6.00	ug/kg	6.00	ORVOA	3.0	5.0	75-15-0	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Bromoform	6.00	ug/kg	6.00	ORVOA	3.0	5.0	75-25-2	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Bromodichloromethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	75-27-4	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,1,2-Trichloroethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	79-00-5	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Trichloroethylene (TCE)	6.00	ug/kg	6.00	ORVOA	3.0	5.0	79-01-6	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,1,2,2-Tetrachloroethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	79-34-5	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Styrene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	100-42-5	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,3-cis-Dichloropropene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	10061-01-5	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,2-Dichloroethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	107-06-2	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Toluene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	108-88-3	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Chlorobenzene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	108-90-7	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Xylenes, Total	6.00	ug/kg	6.00	ORVOA	0.0	2.0	1330-20-7	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,2-Dichloroethene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	540-59-0	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Trichloromethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	67-66-3	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Chloromethane	12.00	ug/kg	12.00	ORVOA	0.0	2.0	74-87-3	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Chloroethane	12.00	ug/kg	12.00	ORVOA	0.0	2.0	75-00-3	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Carbon Disulfide	6.00	ug/kg	6.00	ORVOA	0.0	2.0	75-15-0	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,1-Dichloroethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	75-34-3	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,1-Dichloroethene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	75-35-4	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Trichloroethylene (TCE)	6.00	ug/kg	6.00	ORVOA	0.0	2.0	79-01-6	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,3-trans-Dichloropropene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	10061-02-6	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,2-Dichloroethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	107-06-2	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Vinyl Acetate	11.00	ug/kg	11.00	ORVOA	3.0	5.0	108-05-4	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Dibromochloromethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	124-48-1	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Tetrachloroethene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	127-18-4	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Xylenes, Total	6.00	ug/kg	6.00	ORVOA	3.0	5.0	1330-20-7	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,2-Dichloroethene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	540-59-0	U	U	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-0002	Borehole	19911119	Trichloromethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	67-66-3	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Benzene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	71-43-2	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,1,1-Trichloroethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	71-55-6	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Carbon Disulfide	6.00	ug/kg	6.00	ORVOA	3.0	5.0	75-15-0	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Bromoform	6.00	ug/kg	6.00	ORVOA	3.0	5.0	75-25-2	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,1,2-Trichloroethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	79-00-5	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Trichloroethylene (TCE)	6.00	ug/kg	6.00	ORVOA	3.0	5.0	79-01-6	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,1,2,2-Tetrachloroethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	79-34-5	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Ethylbenzene	5.00	ug/kg	5.00	ORVOA	8.0	11.0	100-41-4	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Styrene	5.00	ug/kg	5.00	ORVOA	8.0	11.0	100-42-5	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	4-Methyl-2-pentanone	11.00	ug/kg	11.00	ORVOA	8.0	11.0	108-10-1	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Toluene	5.00	ug/kg	5.00	ORVOA	8.0	11.0	108-88-3	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,2-Dichloroethene	5.00	ug/kg	5.00	ORVOA	8.0	11.0	540-59-0	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Carbon Tetrachloride	5.00	ug/kg	5.00	ORVOA	8.0	11.0	56-23-5	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	2-Hexanone	11.00	ug/kg	11.00	ORVOA	8.0	11.0	591-78-6	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Bromomethane	11.00	ug/kg	11.00	ORVOA	8.0	11.0	74-83-9	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Chloromethane	11.00	ug/kg	11.00	ORVOA	8.0	11.0	74-87-3	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Chloroethane	11.00	ug/kg	11.00	ORVOA	8.0	11.0	75-00-3	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,1-Dichloroethene	5.00	ug/kg	5.00	ORVOA	8.0	11.0	75-35-4	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,2-Dichloropropane	5.00	ug/kg	5.00	ORVOA	8.0	11.0	78-87-5	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,3-cis-Dichloropropene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	10061-01-5	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,3-trans-Dichloropropene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	10061-02-6	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Chlorobenzene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	108-90-7	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Dibromochloromethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	124-48-1	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Tetrachloroethene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	127-18-4	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Trichloromethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	67-66-3	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Benzene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	71-43-2	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Chloroethane	12.00	ug/kg	12.00	ORVOA	0.0	2.0	75-00-3	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Vinyl Chloride	12.00	ug/kg	12.00	ORVOA	0.0	2.0	75-01-4	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Bromoform	6.00	ug/kg	6.00	ORVOA	0.0	2.0	75-25-2	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Bromodichloromethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	75-27-4	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,1,2-Trichloroethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	79-00-5	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Trichloroethylene (TCE)	6.00	ug/kg	6.00	ORVOA	0.0	2.0	79-01-6	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	1,1,2,2-Tetrachloroethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	79-34-5	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Styrene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	100-42-5	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,3-cis-Dichloropropene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	10061-01-5	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Toluene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	108-88-3	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Chlorobenzene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	108-90-7	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Dibromochloromethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	124-48-1	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	2-Hexanone	11.00	ug/kg	11.00	ORVOA	3.0	5.0	591-78-6	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Trichloromethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	67-66-3	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Chloroethane	11.00	ug/kg	11.00	ORVOA	3.0	5.0	75-00-3	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Vinyl Chloride	11.00	ug/kg	11.00	ORVOA	3.0	5.0	75-01-4	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,1-Dichloroethene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	75-35-4	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,2-Dichloropropane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	78-87-5	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Bromomethane	12.00	ug/kg	12.00	ORVOA	0.0	2.0	74-83-9	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	1,1,2-Trichloroethane	6.00	ug/kg	6.00	ORVOA	0.0	2.0	79-00-5	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,3-cis-Dichloropropene	6.00	ug/kg	6.00	ORVOA	3.0	5.0	10061-01-5	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Vinyl Chloride	11.00	ug/kg	11.00	ORVOA	3.0	5.0	75-01-4	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	1,2-Dichloropropane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	78-87-5	U	U	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0062	0062-0003	Borehole	19911119	Xylenes, Total	5.00	ug/kg	5.00	ORVOA	8.0	11.0	1330-20-7	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,1,1-Trichloroethane	5.00	ug/kg	5.00	ORVOA	8.0	11.0	71-55-6	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	1,1-Dichloroethane	5.00	ug/kg	5.00	ORVOA	8.0	11.0	75-34-3	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Styrene	6.00	ug/kg	6.00	ORVOA	0.0	2.0	100-42-5	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2-Hexanone	12.00	ug/kg	12.00	ORVOA	0.0	2.0	591-78-6	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	2-Butanone	12.00	ug/kg	12.00	ORVOA	0.0	2.0	78-93-3	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Carbon Tetrachloride	6.00	ug/kg	6.00	ORVOA	3.0	5.0	56-23-5	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Chloromethane	11.00	ug/kg	11.00	ORVOA	3.0	5.0	74-87-3	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	1,1-Dichloroethane	6.00	ug/kg	6.00	ORVOA	3.0	5.0	75-34-3	U	U	MND33	Soil
MND33-0062	0062-0001	Borehole	19911119	Tritium	1.53	pCi/g	50.00	RAD	0.0	2.0	10028-17-8	U	U	MND33	Soil
MND33-0062	0062-0002	Borehole	19911119	Tritium	1.53	pCi/g	50.00	RAD	3.0	5.0	10028-17-8	U	U	MND33	Soil
MND33-0062	0062-1001	Borehole	19911119	Tritium	1.51	pCi/g	50.00	RAD	0.0	2.0	10028-17-8	U	U	MND33	Soil
MND33-0062	0062-1002	Borehole	19911119	Tritium	1.54	pCi/g	50.00	RAD	3.0	5.0	10028-17-8	U	U	MND33	Soil
MND33-0062	0062-0003	Borehole	19911119	Tritium	1.52	pCi/g	50.00	RAD	8.0	11.0	10028-17-8	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Thallium	0.49	mg/kg	0.49	INORG	0.0	0.5	7440-28-0	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Antimony	7.30	mg/kg	7.30	INORG	0.0	0.5	7440-36-0		R	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Selenium	0.49	mg/kg	0.49	INORG	0.0	0.5	7782-49-2		UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	4,4'-DDT	29.40	ug/kg	29.40	ORPPB	0.0	0.5	50-29-3	U	R	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Alpha Chlordane	34.10	ug/kg	34.10	ORPPB	0.0	0.5	5103-71-9	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Endosulfan Sulfate	58.70	ug/kg	58.70	ORPPB	0.0	0.5	1031-07-8	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Aroclor-1260	587.30	ug/kg	587.30	ORPPB	0.0	0.5	11096-82-5	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Aroclor-1254	587.30	ug/kg	587.30	ORPPB	0.0	0.5	11097-69-1	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Aldrin	9.90	ug/kg	9.90	ORPPB	0.0	0.5	309-00-2	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Alpha-BHC	7.30	ug/kg	7.30	ORPPB	0.0	0.5	319-84-6	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Beta-BHC	14.70	ug/kg	14.70	ORPPB	0.0	0.5	319-85-7	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Gamma Chlordane	34.10	ug/kg	34.10	ORPPB	0.0	0.5	5103-74-2	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Gamma-BHC (Lindane)	9.90	ug/kg	9.90	ORPPB	0.0	0.5	58-89-9	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Dieldrin	4.80	ug/kg	4.80	ORPPB	0.0	0.5	60-57-1	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Endrin Aldehyde	56.20	ug/kg	56.20	ORPPB	0.0	0.5	7421-93-4	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Heptachlor	7.30	ug/kg	7.30	ORPPB	0.0	0.5	76-44-8	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Toxaphene	587.30	ug/kg	587.30	ORPPB	0.0	0.5	8001-35-2	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Heptachlor Epoxide	29.40	ug/kg	29.40	ORPPB	0.0	0.5	1024-57-3	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Aroclor-1232	293.70	ug/kg	293.70	ORPPB	0.0	0.5	11141-16-5	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Aroclor-1248	293.70	ug/kg	293.70	ORPPB	0.0	0.5	12672-29-6	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Aroclor-1016	293.70	ug/kg	293.70	ORPPB	0.0	0.5	12674-11-2	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Endosulfan II	9.90	ug/kg	9.90	ORPPB	0.0	0.5	33213-65-9	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Aroclor-1242	293.70	ug/kg	293.70	ORPPB	0.0	0.5	53469-21-9	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Endrin Ketone	58.70	ug/kg	58.70	ORPPB	0.0	0.5	53494-70-5	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Methoxychlor	293.70	ug/kg	293.70	ORPPB	0.0	0.5	72-43-5	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	4,4'-DDD	26.80	ug/kg	26.80	ORPPB	0.0	0.5	72-54-8	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	4,4'-DDE	9.90	ug/kg	9.90	ORPPB	0.0	0.5	72-55-9	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Aroclor-1221	293.70	ug/kg	293.70	ORPPB	0.0	0.5	11104-28-2	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Delta-BHC	22.00	ug/kg	22.00	ORPPB	0.0	0.5	319-86-8	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Endrin	14.70	ug/kg	14.70	ORPPB	0.0	0.5	72-20-8	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Endosulfan I	29.40	ug/kg	29.40	ORPPB	0.0	0.5	959-98-8	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	4-Nitroaniline	2000.00	ug/kg	2000.00	ORSVO	0.0	0.5	100-01-6	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	4-Nitrophenol	2000.00	ug/kg	2000.00	ORSVO	0.0	0.5	100-02-7	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Benzyl Alcohol	410.00	ug/kg	410.00	ORSVO	0.0	0.5	100-51-6	U	UJ	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0063	0063-0001	Borehole	19911120	2,4-Dimethylphenol	410.00	ug/kg	410.00	ORSVO	0.0	0.5	105-67-9	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	4-Methylphenol	410.00	ug/kg	410.00	ORSVO	0.0	0.5	106-44-5	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2,2'-oxybis(1-chloropropane)	410.00	ug/kg	410.00	ORSVO	0.0	0.5	108-60-1	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Phenol	410.00	ug/kg	410.00	ORSVO	0.0	0.5	108-95-2	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Bis(2-chloroethyl)ether	410.00	ug/kg	410.00	ORSVO	0.0	0.5	111-44-4	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Hexachlorobenzene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	118-74-1	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,2,4-Trichlorobenzene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	120-82-1	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Dibenzofuran	410.00	ug/kg	410.00	ORSVO	0.0	0.5	132-64-9	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	4,6-Dinitro-o-Cresol	2000.00	ug/kg	2000.00	ORSVO	0.0	0.5	534-52-1	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,3-Dichlorobenzene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	541-73-1	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	N-Nitroso-di-n-propylamine	410.00	ug/kg	410.00	ORSVO	0.0	0.5	621-64-7	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Benzoic Acid	2000.00	ug/kg	2000.00	ORSVO	0.0	0.5	65-85-0	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Hexachloroethane	410.00	ug/kg	410.00	ORSVO	0.0	0.5	67-72-1	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1-chloro-4-phenoxybenzene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	7005-72-3	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Diethyl Phthalate	410.00	ug/kg	410.00	ORSVO	0.0	0.5	84-66-2	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Pentachlorophenol	2000.00	ug/kg	2000.00	ORSVO	0.0	0.5	87-86-5	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2,4,6-Trichlorophenol	410.00	ug/kg	410.00	ORSVO	0.0	0.5	88-06-2	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2-Nitroaniline	2000.00	ug/kg	2000.00	ORSVO	0.0	0.5	88-74-4	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2-Nitrophenol	410.00	ug/kg	410.00	ORSVO	0.0	0.5	88-75-5	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Naphthalene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	91-20-3	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2-Methylphenol	410.00	ug/kg	410.00	ORSVO	0.0	0.5	95-48-7	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,2-Dichlorobenzene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	95-50-1	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2-Chlorophenol	410.00	ug/kg	410.00	ORSVO	0.0	0.5	95-57-8	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,4-Dichlorobenzene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	106-46-7	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	4-Chloroaniline	410.00	ug/kg	410.00	ORSVO	0.0	0.5	106-47-8	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Bis(2-chloroethoxy)methane	410.00	ug/kg	410.00	ORSVO	0.0	0.5	111-91-1	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Di-n-octyl Phthalate	410.00	ug/kg	410.00	ORSVO	0.0	0.5	117-84-0	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2,4-Dinitrotoluene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	121-14-2	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Dimethyl Phthalate	410.00	ug/kg	410.00	ORSVO	0.0	0.5	131-11-3	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Benzo(k)fluoranthene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	207-08-9	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Acenaphthylene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	208-96-8	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2,4-Dinitrophenol	2000.00	ug/kg	2000.00	ORSVO	0.0	0.5	51-28-5	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	4-Chloro-3-methylphenol	410.00	ug/kg	410.00	ORSVO	0.0	0.5	59-50-7	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2,6-Dinitrotoluene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	606-20-2	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Hexachlorocyclopentadiene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	77-47-4	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Isophorone	410.00	ug/kg	410.00	ORSVO	0.0	0.5	78-59-1	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	N-Nitrosodiphenylamine	410.00	ug/kg	410.00	ORSVO	0.0	0.5	86-30-6	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Hexachlorobutadiene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	87-68-3	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2-Chloronaphthalene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	91-58-7	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Nitrobenzene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	98-95-3	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	3-Nitroaniline	2000.00	ug/kg	2000.00	ORSVO	0.0	0.5	99-09-2	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	4-Bromophenyl-phenyl Ether	410.00	ug/kg	410.00	ORSVO	0.0	0.5	101-55-3	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2,4-Dichlorophenol	410.00	ug/kg	410.00	ORSVO	0.0	0.5	120-83-2	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2-Methylnaphthalene	410.00	ug/kg	410.00	ORSVO	0.0	0.5	91-57-6	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2,4,5-Trichlorophenol	2000.00	ug/kg	2000.00	ORSVO	0.0	0.5	95-95-4	U	UJ	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Dichloromethane (Methylene Chloride)	13.00	ug/kg	5.00	ORVOA	0.0	0.5	75-09-2	B	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Acetone	12.00	ug/kg	10.00	ORVOA	0.0	0.5	67-64-1	JB	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Ethylbenzene	6.00	ug/kg	6.00	ORVOA	0.0	0.5	100-41-4	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Styrene	6.00	ug/kg	6.00	ORVOA	0.0	0.5	100-42-5	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	4-Methyl-2-pentanone	12.00	ug/kg	12.00	ORVOA	0.0	0.5	108-10-1	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Toluene	6.00	ug/kg	6.00	ORVOA	0.0	0.5	108-88-3	U	U	MND33	Soil

Previous Sampling Results All NON-Detections

Location Name	Sample ID	Location Type	Collection Date	Value Name	Measured value	Value Unit	Detection Limit	Chem Class	Start Depth (ft.)	End Depth (ft.)	CAS Number	Lab Qualifier	Data Qualifier	Project Code	Media
MND33-0063	0063-0001	Borehole	19911120	1,2-Dichloroethene	6.00	ug/kg	6.00	ORVOA	0.0	0.5	540-59-0	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Carbon Tetrachloride	6.00	ug/kg	6.00	ORVOA	0.0	0.5	56-23-5	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2-Hexanone	12.00	ug/kg	12.00	ORVOA	0.0	0.5	591-78-6	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Trichloromethane	6.00	ug/kg	6.00	ORVOA	0.0	0.5	67-66-3	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Chloroethane	12.00	ug/kg	12.00	ORVOA	0.0	0.5	75-00-3	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Vinyl Chloride	12.00	ug/kg	12.00	ORVOA	0.0	0.5	75-01-4	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,1-Dichloroethene	6.00	ug/kg	6.00	ORVOA	0.0	0.5	75-35-4	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,2-Dichloropropane	6.00	ug/kg	6.00	ORVOA	0.0	0.5	78-87-5	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,3-cis-Dichloropropene	6.00	ug/kg	6.00	ORVOA	0.0	0.5	10061-01-5	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,3-trans-Dichloropropene	6.00	ug/kg	6.00	ORVOA	0.0	0.5	10061-02-6	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,2-Dichloroethane	6.00	ug/kg	6.00	ORVOA	0.0	0.5	107-06-2	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Vinyl Acetate	12.00	ug/kg	12.00	ORVOA	0.0	0.5	108-05-4	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Dibromochloromethane	6.00	ug/kg	6.00	ORVOA	0.0	0.5	124-48-1	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Tetrachloroethene	6.00	ug/kg	6.00	ORVOA	0.0	0.5	127-18-4	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Xylenes, Total	6.00	ug/kg	6.00	ORVOA	0.0	0.5	1330-20-7	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,1,1-Trichloroethane	6.00	ug/kg	6.00	ORVOA	0.0	0.5	71-55-6	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Bromomethane	12.00	ug/kg	12.00	ORVOA	0.0	0.5	74-83-9	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Chloromethane	12.00	ug/kg	12.00	ORVOA	0.0	0.5	74-87-3	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Carbon Disulfide	6.00	ug/kg	6.00	ORVOA	0.0	0.5	75-15-0	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Bromoform	6.00	ug/kg	6.00	ORVOA	0.0	0.5	75-25-2	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Bromodichloromethane	6.00	ug/kg	6.00	ORVOA	0.0	0.5	75-27-4	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,1-Dichloroethane	6.00	ug/kg	6.00	ORVOA	0.0	0.5	75-34-3	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,1,2-Trichloroethane	6.00	ug/kg	6.00	ORVOA	0.0	0.5	79-00-5	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Trichloroethylene (TCE)	6.00	ug/kg	6.00	ORVOA	0.0	0.5	79-01-6	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	1,1,2,2-Tetrachloroethane	6.00	ug/kg	6.00	ORVOA	0.0	0.5	79-34-5	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Chlorobenzene	6.00	ug/kg	6.00	ORVOA	0.0	0.5	108-90-7	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Benzene	6.00	ug/kg	6.00	ORVOA	0.0	0.5	71-43-2	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	2-Butanone	12.00	ug/kg	12.00	ORVOA	0.0	0.5	78-93-3	U	U	MND33	Soil
MND33-0063	0063-0001	Borehole	19911120	Tritium	2.17	pCi/g	50.00	RAD	0.0	0.5	10028-17-8	U	U	MND33	Soil
SCR380	91011712	Borehole	19910117	Plutonium-238	12.00	pCi/g	0.00	RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil
SCR380	91011713	Borehole	19910117	Plutonium-238	0.00	pCi/g	0.00	RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil
SCR380	91011713	Borehole	19910117	Thorium-232	0.40	pCi/g	0.00	RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil
SCR380	91011712	Borehole	19910117	Thorium-232	0.90	pCi/g	0.00	RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil

U = Indicates the analyte was analyzed for, but not detected.

ATTACHMENT 3

MOUND PLANT POTENTIAL RELEASE SITE PACKAGE, PRS 112/368

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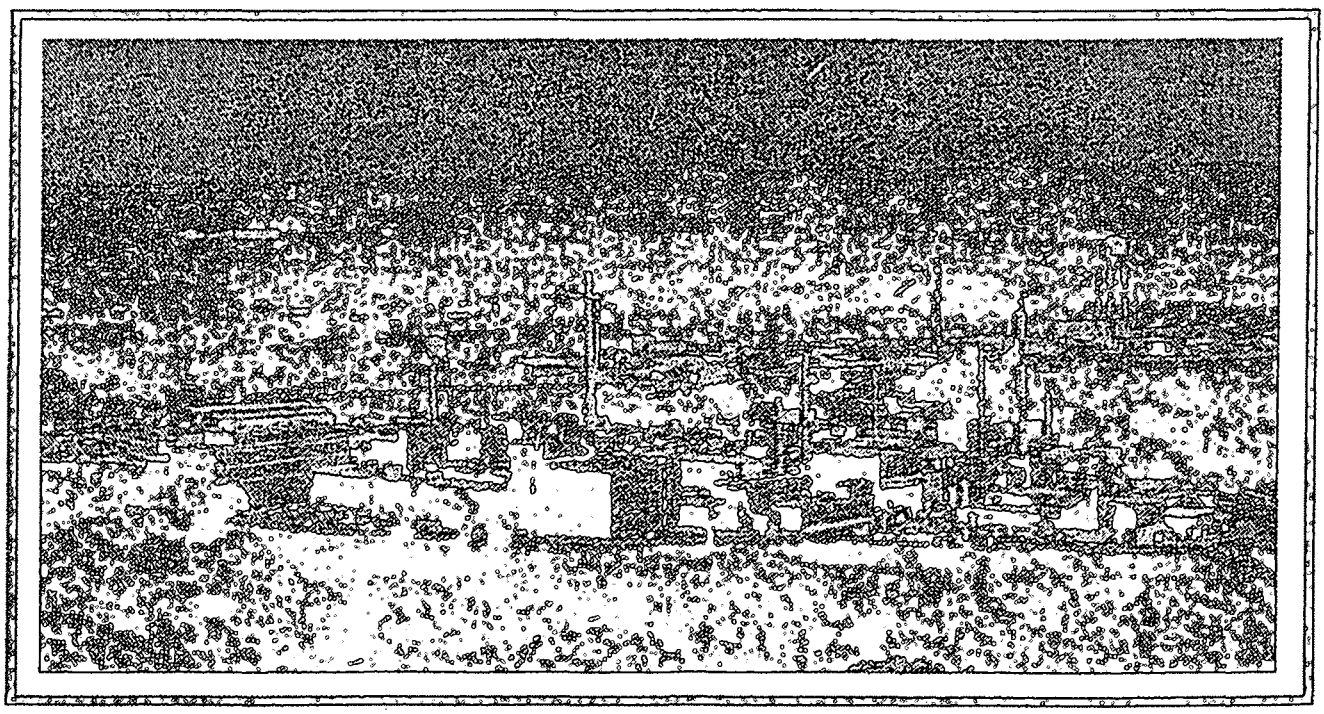
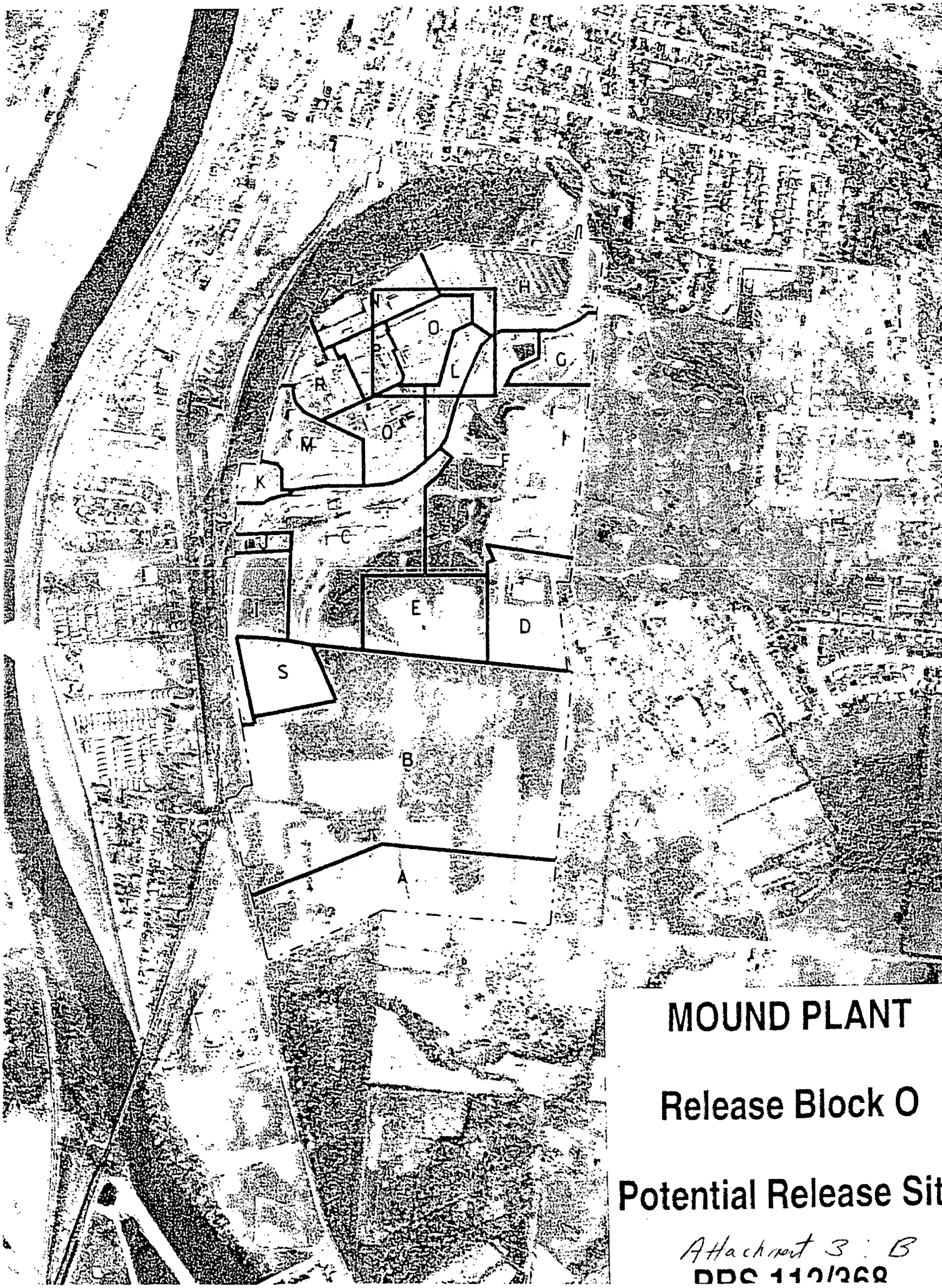
MOUND PLANT
Potential Release Site Package
PRS # 112/368



Attachment 3 · A



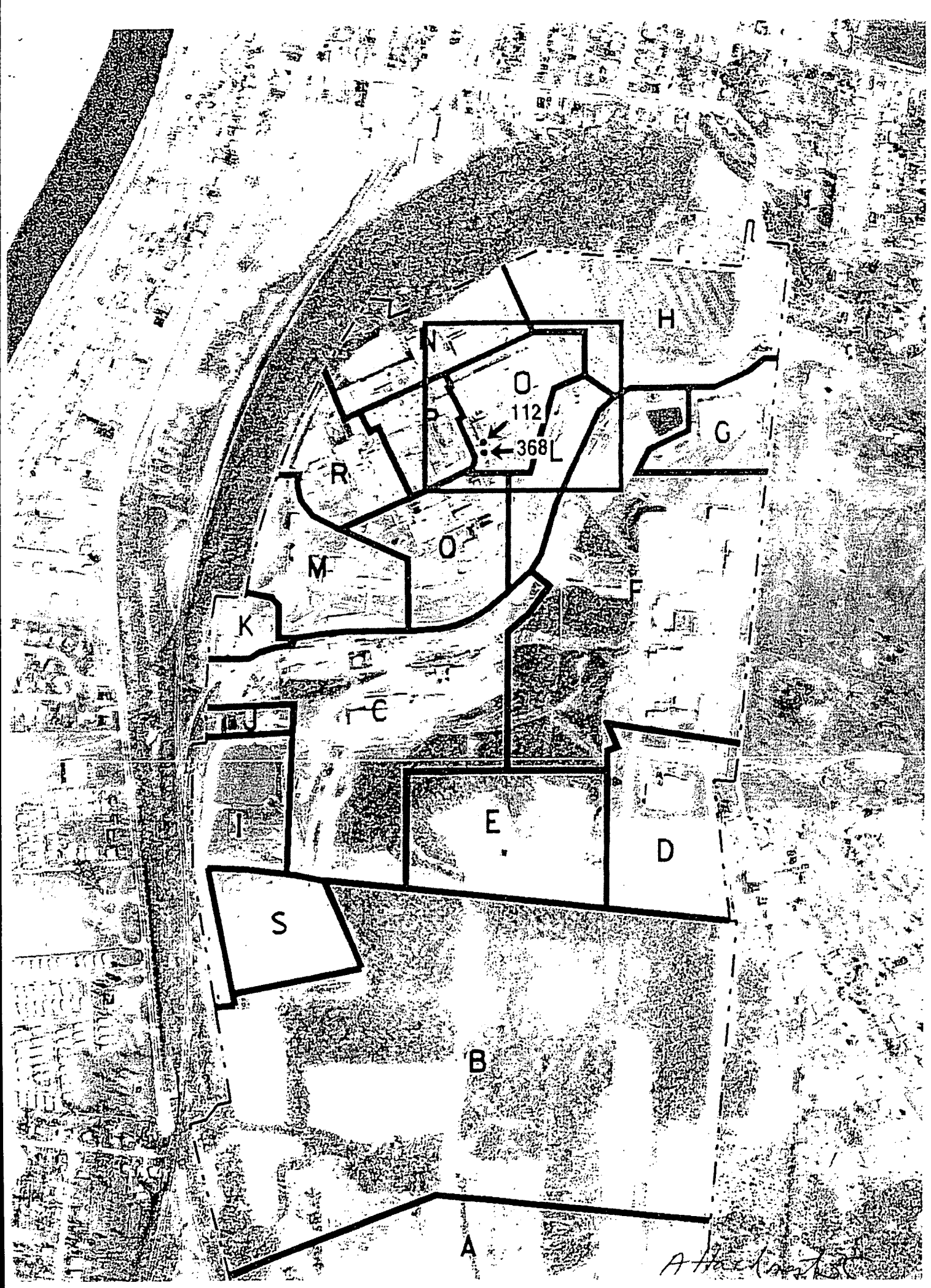
MOUND PLANT

Release Block O

Potential Release Sit

Attachment 3 : B

PRS 112/368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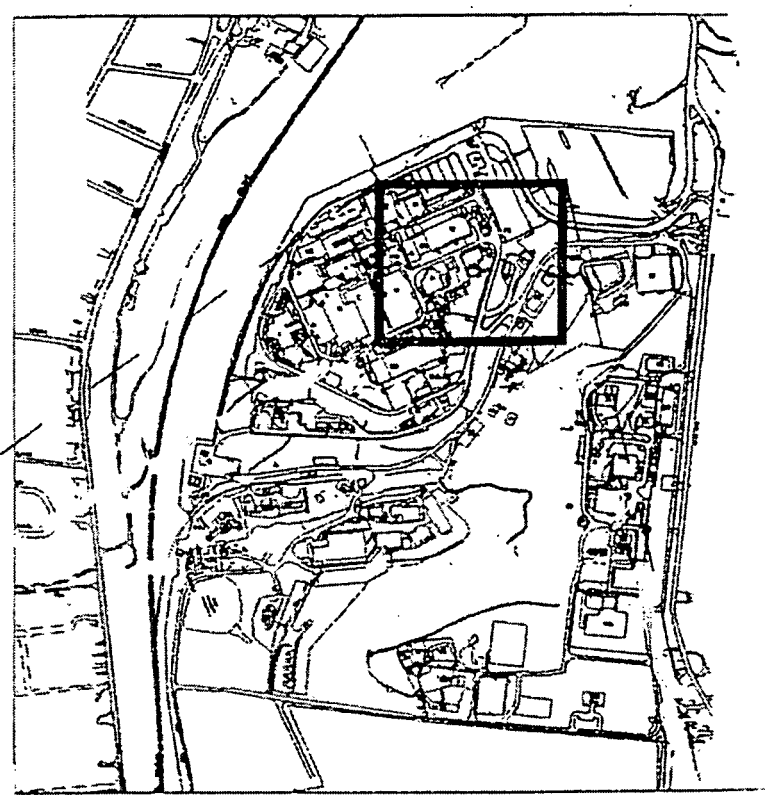
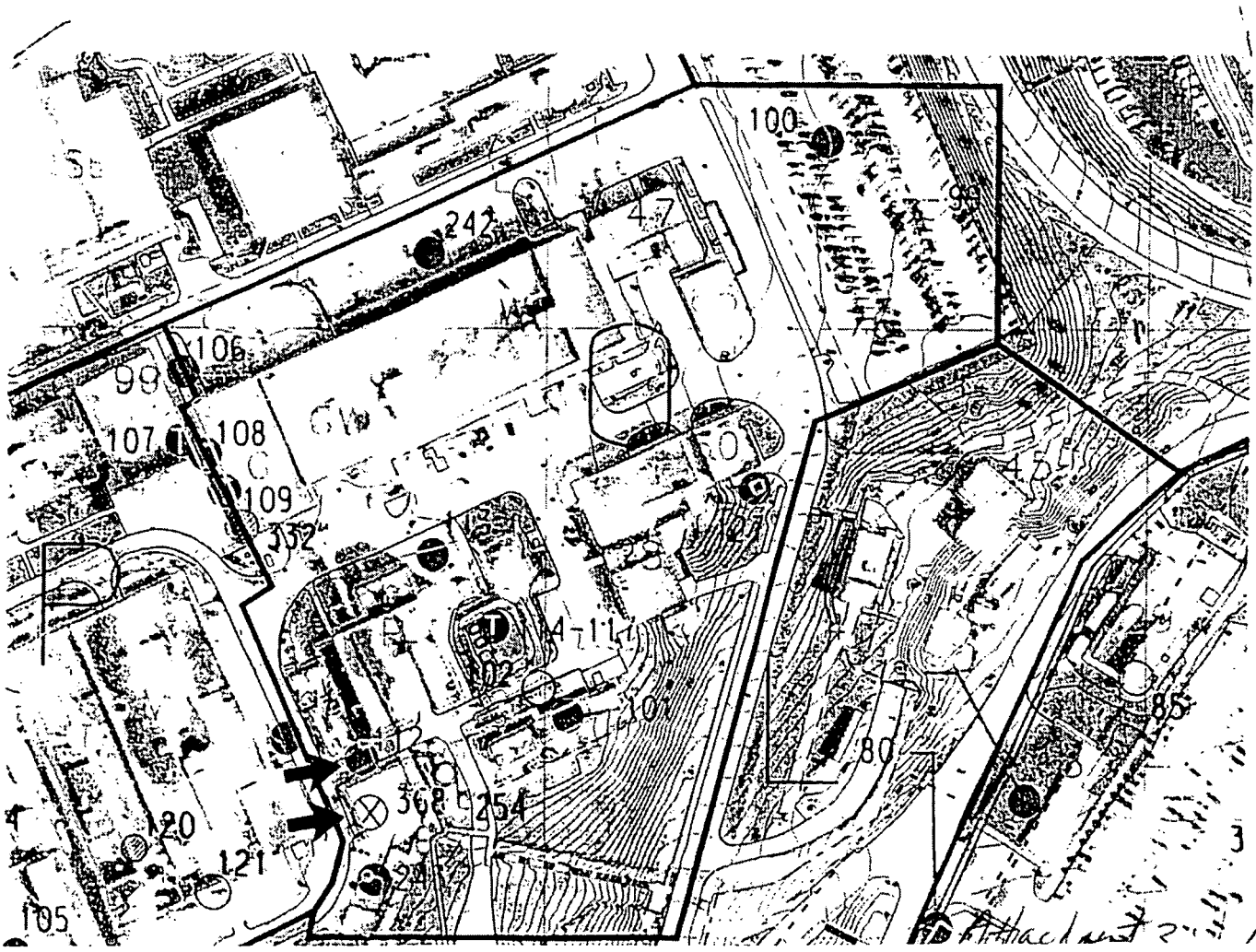
MOUND PLANT

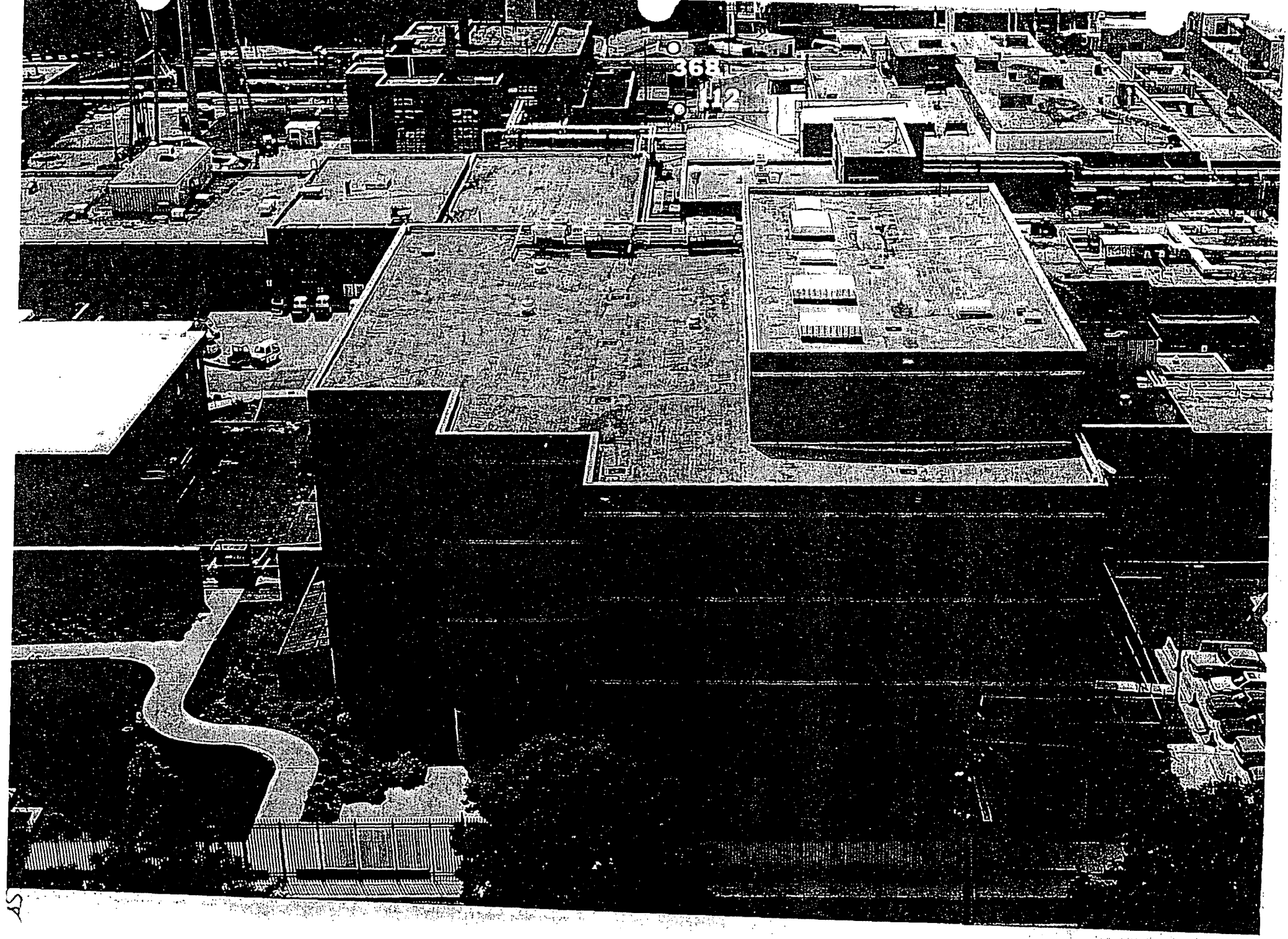
Release Block O

Potential Release Site

PRS 112/368



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PRS 112/368

PRS HISTORY:

PRS 112 was identified as a potential release site due to results associated with elevated lead in the soil as part of the OU3 Limited Field Investigation around the Paint Shop.[2] PRS 368 was identified as a potential release site due to results of Volatile Organic Compounds (VOC's) detected during the OU2 Soil Vapor Reconnaissance effort around the Paint Shop.[6] Suspected leaks, spills, or dumping of paints and paint wastes, around the Paint shop, as obtained during a RCRA Facility visual inspection and assessment in 1988 also contributed to identifying this area as a potential release site.[4]

PROCESS DESCRIPTION:

The Paint shop, which began operation in 1963, was used for both maintenance and production parts painting. All painting was done inside using spray booths. Waste materials generated at the paint shop included unused paint, solvents, thinner, and solid trash. A waste drum containing waste material was stored outside on the north side of the building. Approximately one drum of waste was generated every three months. No radioactive processes are known to have occurred in or around the Paint Shop location.[2]

CONTAMINATION:

OU3, Limited Field Investigation [2]

During the OU3 Limited Field Investigation conducted in 1992/93 sampling was performed around the Paint Shop. This sampling included surface and subsurface soils analyzed for VOCs, Semi-Volatile Organic Compounds SVOCs, Pesticides/PCBs, inorganics, and tritium.

No samples exceeded guideline values. Magnesium, sodium and lead exceeded background values however, lead is below the USEPA residential soil guidance value of 400 mg/kg. Magnesium and sodium are necessary in our daily diet and do not have guideline values. Tritium was not detected above laboratory reporting limits. Plutonium -238 and Thorium-232 were below Mound ALARA guideline values of 25 pCi/g for Pu-238 and 5 pCi/g for Th-232.

OU2, Soil Vapor Reconnaissance [6]

below calculated

With the exception of Freon and 1,2-Cis-Dichlorethene, all detected VOC's are above calculated soil screening levels.[7]

Parameter	Soil Gas Reading	Calculated Acceptable Soil Gas Concentrations
1,2-trans-Dichloroethene	6,818 ppb	35, 700 ppb
1,2-cis-Dichloroethene	5,808 ppb	5,000 ppb
1,1-Dichloroethane	12,098 ppb	398,000 ppb
Freon 11	15,892 ppb	NA

Attachment

OU9, Site Scoping Report: Volume 3 - Radiological Site Survey[8]
As part of the Site Survey Project, soil samples were collected in the area of the Paint Shop in the mid 1980s. Values for plutonium-238 ranged from 0.11 to 1.19 pCi/g which are below the Mound Plant ALARA of 25 pCi/g for Pu-238; values for thorium-232 were below the 5 pCi/g regulatory limit of 2 pCi/g.[8]

READING ROOM REFERENCES:

1) Operable Unit 9, Site Scoping Report, Volume 12 Final, (rev 0), December 1994. (pages 6-13)
2) Operable Unit 3, Miscellaneous Sites, Limited Field Investigation, Volume I, sections 1-6, Final (rev 0), July 1993 (pages 14-24)
3) Operable Unit 9, Site Scoping Report, Volume 7, Waste Management, Final (rev 0), February 1993. (pages 25-28)
4) Preliminary Review/Visual Site Inspection for RCRA Facility of Mound Plant, July 1988. (pages 29-31)
5) Comprehensive Environmental Assessment and Response Program (CEARP), Phase I, Draft, April 1986. (pages 32-33)
6) Operable Unit 2, Soil Vapor Reconnaissance , Main Hill, Phase I, Final (rev 0), February 1995. (pages 34-50)
8) OU9, Site Scoping Report: Volume 3 - Radiological Site Survey, Final, June 1993. (pages 54-58)

OTHER REFERENCES:

7) Soil Gas and Soil Screening level calculations. (pages 51-53)

PREPARED BY:

Gary L. Coons, Member of EG&G Technical Staff

REFERENCE MATERIAL
PRS 112

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Document Control No. _____

Environmental Restoration Program

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

MOUND PLANT
MIAMISBURG, OHIO

December 1994

Final

U.S. Department of Energy
Ohio Field Office

EG&G Mound Applied Technologies

A Hardnat P. Page 6

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
109	G Building Gasoline Tank (Tank 204)	E-7	Historical	(Cont.)	(Cont.)	(Cont.)		(Cont.)	(Cont.)		
110	I Building Soils	E-6 F-6	Grounds	Toluene, acetone, Freon	4	Indicated by Soil Gas Survey	S	12	1 14, 16	SGS[b] Table B.4 Locations 1075, 1227, 1228 Table B.9 RSS Locations S0171, S0178, S0181, S0183, S0186, S0187, S0190, S0193, S0195, S0255 (Appendix E in Ref. 6)	12 6
111	Monitor Well 0034	F-7	Surplus	Waste oil	5, 18	Suspected	GW	5	No Data		
112	Paint Shop Area	E-7	In service	Paints, Thinners, Solvents (including toluene and methylene chloride) Lead, Chromates	1, 4, 5, 18	Suspected, confirmed lead	S	5	3, 4, 5, 6, 16	Tables B.6, B.7, B.8, and B.9	7
113	Powerhouse Soils	E-7	Grounds	Calcium chloride, magnesium chloride, zinc chromate, PCBs	4	Indicated by Soil Gas Survey	S	12	1 14, 16	SGS[b] Table B.4 Location 1052 Table B.9 RSS[c] Locations S0155, S0156, S0158, S0253 (Appendix E in Ref. 6)	12 6
114	Powerhouse Fuel Oil Storage Tank (Tank 113)	E-7	In service	Fuel oil	1, 3, 5, 7, 18	Fuel Oil, confirmed EPH	S	10, 7	3, 4, 5, 6, 8	Tables B.6, B.7, and B.8	7
115	Powerhouse Fuel Oil Storage Tank (Tank 114)										
	house Fuel Oil Storage Tank (Tank 115)										
	house Fuel Oil Storage Tank (Tank 116)										

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

Reference List

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

Attachment 3.

Table B.6 - Target Compound List - VOC (a,b)

SITE NAME	Acetone	2-Butanone	Toluene	Benzene	Ethyl Benzene	Xylenes	1,2 Dichloroethane	Methylene Chloride	Perchloroethylene	2-Hexanone	4-Methyl-2-Pentanone	Trichloroethene	1,1,2 Trichloroethane	Carbon Disulfide	1,1,1-Trichloroethane	Chloroform	Freon 11	Freon 113	1,1-Dichloroethane	Bromo-dichloromethane	Bromoform	Reference
26. Building 27 Concrete Flume (Tank 217)	0.06	ND	ND	ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
27 Building 27 Settling Sump (Tank 218)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
28. Building 27 Solvent/Drum Storage Area	ND	0.08	ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	.009	ND	ND	ND	ND	ND	ND	ND	7
31. Underground Sewer Line G5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
32. Underground Sewer Line G12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
33. Underground Sewer Line G14 East	ND	ND	ND	ND	ND	ND	ND	0.04	ND	ND	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
34. Underground Sewer Line G14 West	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
35. Underground Sewer Lines G19 and G14	ND	0.02	ND	ND	ND	ND	ND	ND	ND	ND	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
36. Underground Sewer Line G15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
37. Building 61 Waste Solvent Storage Tank (Tank 220)	0.25	0.07	0.207	ND	ND	ND	ND	ND	ND	ND					ND	ND	ND	ND	ND	ND	ND	7
65. Building 61 Area, Former Heavy Equipment Area	0.08	ND	ND												ID	ND	ND	ND	ND	ND	ND	7
91. Main Hill Seep 0601 (e)																1.2			1.3	4.5	0.61	18
92. Main Hill Seep 0602 (e)												40			32							18
95. Main Hill Seep 0605 (e)							12		ND			13			0.9							18
97. Main Hill Seep 0607 (e)							4.1		0.4			5.5			2.2							18
98. Main Hill Seep 0608 (e)							2.6		ND			9			0.4							18
112 Paint Shop Area	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7

General Chemistry

Attachment 2, Page 10

Table B.7. Target Compound List - SVOC, P/PCB, PAH, and EPH [a]

SITE NAME	SVOC	Polycyclic Aromatic Hydrocarbons (PAH)											Pesticides, Polychlorinated Biphenyls						EPH & TPH		
	Bis(2-ethylhexyl)phthalate	Acenapthene	Anthracene	Phenanthrene	Pyrene	Fluoranthene	Benzopyrene	Benzofluoranthene	Benzoanthracene	Indeno(1,2,3-CD)pyrene	Chrysene1	Benzo(g,h,i)perelene	PCBs	Chlordane	Endrin	Alpha,Beta,Delta, BHC (Lindane)	Dieldrin	4,4'-DDT, 4,4'-DDE	Extractable Petrol. Hydrocarbons	Total Petrol. Hydrocarbons	Reference
95. Main Hill Seep 0605 (d)																					18
97. Main Hill Seep 0607 (d)																					18
98. Main Hill Seep 0608 (d)																					18
112. Paint Shop Area	1.7	ND	ND	0.83	1.3	1.3	0.35	0.75	0.51	ND	0.73	ND	ND	ND	ND	ND	ND	ND			7
114-117. Powerhouse Area Fuel Tanks (Tanks 113, 114, 115, 116)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48000		7
125. Underground Sanitary Sewer Line G24																					7
159. Area 4A, Sewage Sludge Drying Pits																					8
172. WDA Building Basement Wash Sump (AKA Glass Melter Room Sump)	ND	ND	ND	ND												ND	ND	ND	ND		7
174. WD Building Drum Staging Area	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				ND	ND	ND			7
175. Area 4, WD Building Influent Tank Overflow																					8
176. Area 14, Radioactive Waste Line Break	4,800				2,800											13.0		2754			8
258. Area H Open Burn Pit (AKA Pyrotechnic Waste Disposal Area)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			7
259. Pyrotechnic Waste Shed	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			7
260. Thermal Treatment Unit	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			7

General Chemistry

Table B.8. Target Analyte List (TAL) - Inorganics[a]

SITE NAME	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chloride	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Nitrate	Nitrite	Silver	Thallium	Zinc	Cyanide	Lithium	Mercury	Vanadium	Reference
28. Building 27 Solvent/Drum Storage Area	63.3	7.6	85.6	0.87	12.7		27.6	17.1	22.1	14.9	1,320	29			19.6	ND	60.4	ND		ND	29.2	7
31. Underground Sewer Line G5	13.8	3.7	42.9	0.82	2.4	122.7	28.9	14.7	22.4	8.8	608	28.9	21	3.89	12.6	0.56	46.6	ND		ND	25.6	7
32. Underground Sewer Line G12	35.7	3.8	17.4	0.68	7.8	8.3	27.5	18.2	18.2	5	267	26.9	ND	ND	18.7	ND	34.9	ND		ND	23.1	7
33. Underground Sewer Line G14 East	15.9	1.5	18.7	0.83	2.5	ND	30.2	16.8	18.8	4.5	534	32.8	ND	ND	12.7	ND	64	ND		ND	25.6	7
34. Underground Sewer Line G14 West	11.9	1.5	22.1	0.83	2	ND	34.5	16.9	22.3	3.4	591	35	ND	ND	11.2	ND	68	ND		ND	25.2	7
35. Underground Sewer Lines G19 and G14	21	11.8	106	0.84	5.6	109.7	24.7	15.7	20.8	22.7	520	41.1	4.2	ND	13.3	0.6	69.9	ND	12.7	ND	34.7	7
36. Underground Sewer Line G15	33	3.7	31.9	0.86	6.1	15.6	32.1	14	23.8	6	864	264	3.9	ND	17.1	ND	43.4	0.31		ND	25.9	7
37. Building 51 Waste Solvent Storage Tank (Tank 220)	ND	13.2	89.5	[illegible]	ND		23.7	13.4	38.2	23.9	1,030	28.2			ND	0.26	112	ND		ND	38.5	7
65. Building 61 Area, Former Heavy Equipment Area	ND	9.5	101									[illegible]			0.74	ND	66.6	31.4	12.4	0.1	31.1	7
3. Asphalt-Lined Pond			.40																			18
9. Overflow Pond			.52																			18
0. Retention Basins and Weir Basin			.31																			18
1. Main Hill Seep 0601 (d)						17.5							76									18
2. Main Hill Seep 0602 (d)																						18
5. Main Hill Seep 0605 (d)																						18
7. Main Hill Seep 0607 (d)																						18
8. Main Hill Seep 0608 (d)																						18
112. Paint Shop Area	38	5.5	87.1	0.74	18		35.8	9.8	22.9	148	521	18.2			21.1	ND	104	ND		ND	23.3	7
114-117. Powerhouse Area Fuel Tanks (Tanks 113, 114, 115, 116)	33.4	5.3	71.1	0.7	6.3		28.3	10	21.8	19	486	20.3			17.1	ND	47.9	ND		ND	25.6	7
125. Underground Sewer Line G24																						

General Chemistry

Table B.9. Summary of Radiological Data[a,b]

Site Name	Radiological Contaminants															
	Potassium-40	Plutonium-239	Plutonium-238	Cesium-137	Thorium-Total	Tritium	Thorium-232	Cobalt-60	Radium-224, -226, -228	Radon-222	Americium-241	Actinium-227	Uranium-233, -234, -238	Bismuth-210m	Bismuth-207	Reference
79. Warehouse 15			0.52		<2		10.									6
80. Warehouse 15A			0.7				10.									6
85. Building 29 Solvent Storage Shed	NA	NA	0.29	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6
86. Building 29 Septic Tank (Tank 224)				1.2					2.0			1,400				6
88. Tritium in Buried Valley Aquifer						20										11,18
90. Site Survey Project Potential Hot Spot Location S0425			1.08		5.74											6
91. Main Hill Seep 0601 (f)				10												18
92. Main Hill Seep 0602 (f)																18
95. Main Hill Seep 0605 (f)																18
97. Main Hill Seep 0607 (f)																18
98. Main Hill Seep 0608 (f)						27.80										18
103. E Building Soils	NA	NA	0.25	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6
106. G Building Soils (AKA Garage Area)	NA	NA	0.68	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6
110. I Building Soils	NA	NA	1.87	NA	<2	1.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	6
112. Paint Shop Area							ND									7
113. Powerhouse Soils	NA	NA	0.86	NA	<2	2.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	6
118. M Building Soils	NA	NA	0.82	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6
128. DS Building Solvent Storage Shed	NA	NA	0.12	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6
129. B Building Solvent Storage Shed	NA	NA	0.64	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6
130. B Building Temporary Drum Storage Area	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6
134. SW Building Drum Storage Area	NA	NA	0.96	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6

RADIOCHEMICAL ANALYSIS

MOUNDSMSSOF4.TBB 09/28/94

Table B.9. Summary of Radiological Data[a,b]

Site Name	Radiological Contaminants															
	Potassium-40	Plutonium-239	Plutonium-238	Cesium-137	Thorium-Total	Tritium	Thorium-232	Cobalt-60	Radium-224, -226, -228	Radon-222	Americium-241	Actinium-227	Uranium-233, -234, -238	Bismuth-210m	Bismuth-207	Reference
308. Site Survey Project Potential Hot Spot Location C0028			11.4		109.											6
309. Site Survey Project Potential Hot Spot Location S0307			5.36		8.46											6
310. Site Survey Project Potential Hot Spot Location S0647				270					1.3							6
311. Site Survey Project Potential Hot Spot Location S0706			28.9													6
312. Site Survey Project Potential Hot Spot Location S0971			0.15		5.02	2										6
313. Site Survey Project Potential Hot Spot Location S0982			0.43		14.94											6
314. Farm Trash Area			0.02				<2									7
319. Epoxy Resin Disposal																7

(a) - All units are reported in pCi/g unless otherwise noted.
(b) - Blank spaces implies not sampled.
(c) - Additional data on other analytes are available in reference 16.
(d) - Groundwater data. Unit of measure is pCi/L.
(e) - This site is the same as Site #19.
*** Groundwater data. Unit of measure is nCi/L.

LDL - Lower Detection Limit.
ND - Not detected.
NA - Not analzyed for.
NR - No result reported.

References:
6) DOE 1993d
7) DOE 1993c
11) Styron and Meyer 198
13) DOE 1993d
18) DOE 1992a
24) DOE 1994

Attachment 3

ENVIRONMENTAL RESTORATION PROGRAM

OPERABLE UNIT 3 – MISCELLANEOUS SITES
LIMITED FIELD INVESTIGATION REPORT
VOLUME I
SECTIONS 1-6

MOUND PLANT
MIAMISBURG, OHIO

July 1993

DEPARTMENT OF ENERGY

ENVIRONMENTAL RESTORATION PROGRAM
EG&G MOUND APPLIED TECHNOLOGIES

FINAL
(REVISION 0)

2.1. PAINT SHOP AREA

2.1.1. Site History

2.1.1.1. Description of the Paint Shop Area

The Paint Shop Area is located on the Mound Plant Main Hill, adjacent to the paint shop and southeast of Building M (Figure 1.3). This site covers approximately 3,600 ft^2 of surface area, most of which is covered with asphalt (RFA 1988). Bare ground is present only on the south side of the shop.

2.1.1.2. Potential Area Contaminants

Paint shop wastes include excess paints and thinners, outdated paint, and cleaning solutions from paint operations. The wastes are containerized in 55-gallon drums (DOE 1986). Unused commercial paints, thinners, and lacquers are also stored at the shop prior to use at Mound Plant (RFA 1988).

Historically, the paint shop wastes were placed at the Area B landfill (DOE 1989a). In the 1970s, this practice was replaced with offsite disposal by a contractor (DOE 1986). However, it is possible that leaks or spills could have contaminated the local area around the paint shop (DOE 1986). Currently, at least one 55-gallon drum of material is located at the paint shop building on an asphalt roadway on the north side of the building. There are no records that contaminants have been released onto soils in this area.

No prior environmental samples were collected at the Paint Shop Area.

2.1.2. Field Investigation Procedures

The objective of sampling at the Paint Shop Area was to identify hazardous contaminants that may be present from past surface leaks or surface spills of paint shop wastes. Because there was no record of any spills, only a limited number of samples were collected to verify the presence or absence of contaminants.

The Paint Shop Area sampling activities included surface soil sampling with a scoop and subsurface soil sampling with hollow stem auger drilling techniques. Soil sample collection was conducted by WESTON representatives on 19 and 20 November 1991, and all samples were sent to IT Laboratories, Oak Ridge, Tennessee, for analysis.

Soil samples were collected at two locations as shown on Figure 2.1. A summary of soil samples collected at each location listing the sample identification number, sampling depth interval, date sampled, and requested laboratory analyses is presented in Table II.1.

Every effort was made to comply with approved sampling protocol; however, some deviations were necessary in order to obtain the required sample. A summary of deviations for each applicable sample collected is presented below:

- MND33-0062-0001 — The surface sample was offset three times to obtain the required sample volume.
- MND33-0062-0002 — The 5.0- to 6.2-ft BGS split spoon was needed to obtain the required sample volume. The TCL VOCs were obtained from the 3.0- to 4.75-ft BGS split spoon interval.
- MND33-0062-0003 — The 10.0- to 12.0-ft BGS split spoon was needed to obtain the required sample volume. The TCL VOCs were obtained from the 8.0- to 10.0-ft BGS split spoon. The 15.0-ft and 20.0-ft BGS intervals were not sampled according to OU 3 Work Plan procedures, because there were no OVA or HNu instrument readings above 1.0.

2.2. POWERHOUSE AREA FUEL TANKS

2.2.1. Site History

2.2.1.1. Description of the Powerhouse Area Fuel Tanks

The Powerhouse Area Fuel Tanks are located on the Main Hill, immediately east of Building P (the Powerhouse) and northeast of the Paint Shop Area (Figure 1.3). Four 25,000-gallon fuel oil tanks are located on the eastern side of Building P. The tanks are partially buried in-ground with a berm built up around them. Therefore, they are considered to be USTs. Contamination of the area may have resulted from either leakage of the tanks or spillage during refilling (RFA 1988).

2.2.1.2. Potential Area Contaminants

Stained soils (approximately 20 ft^2 in area) were observed on the fuel tank berm, indicating that fuel spills (overflows) may have occurred during tank filling operations (RFA 1988). A spill of No. 2 fuel oil has been reported, but a search of available documents has not substantiated this information. Unused oil from USTs is not regulated under RCRA, and the 29 September 1990 Toxic Characteristic Leacl

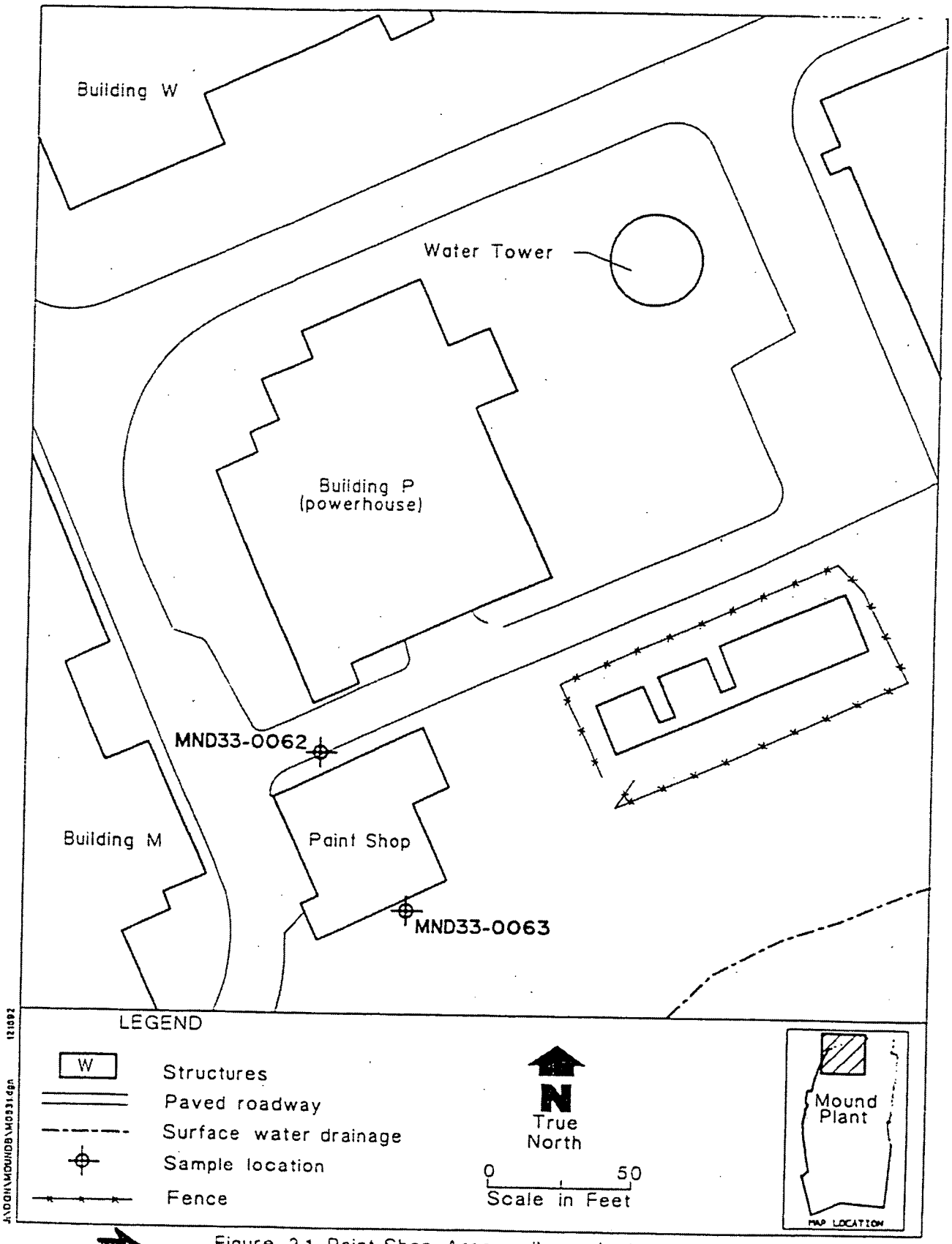

Figure 2.1. Paint Shop Area soil sample locations.

Table II.1. Paint Shop Area Sample Summary

Sample Location	Sample Number	Matrix	Date Sampled	Sample Interval (ft BGS)	Parameters Analyzed
MND33-0062	MND33-0062-0001	Soil	11/19/91	0.0 – 2.0	TCL VOCs, SVOCs, P/PCBs; TAL Inorganics; tritium.
	MND33-0062-1001	Soil	11/19/91	0.0 – 2.0	TCL VOCs, SVOCs, P/PCBs; TAL Inorganics; tritium.
	MND33-0062-5001	Water	11/19/91	---	TCL VOCs.
	MND33-0062-0002	Soil	11/19/91	3.0 – 4.75 and 5.0 – 6.2	TCL VOCs, SVOCs, P/PCBs; TAL Inorganics; tritium.
	MND33-0062-1002	Soil	11/19/91	3.0 – 4.75 and 5.0 – 6.2	TCL VOCs, SVOCs, P/PCBs; TAL Inorganics; tritium.
	MND33-0062-0003	Soil	11/19/91	8.0 – 11.0	TCL VOCs, SVOCs, P/PCBs; TAL Inorganics; tritium.
MND33-0063	MND33-0063-0001	Soil	11/20/91	0.0 – 0.5	TCL VOCs, SVOCs, P/PCBs; TAL Inorganics; tritium.
	MND33-0063-5001	Water	11/20/91	---	TCL VOCs.

BGS – Below Ground Surface
ft – Feet
P/PCBs – Pesticides/Polychlorinated Biphenyls
SVOCs – Semivolatile Organic Compounds
TAL – Target Analyte List
TCL – Target Compound List
VOCs – Volatile Organic Compounds

Attachment 3, Page 18/5

3.1 PAINT SHOP AREA

The paint shop, located on the Mound Plant Main Hill, is used to store unused commercial paints, thinners, and lacquers as well as operation wastes. Paint shop wastes include excess paints and thinners and outdated paint and cleaning solutions. Wastes are contained in 55-gallon drums pending offsite disposal. A summary of the paint shop history, potential site contaminants, and field investigation procedures is presented in subsection 2.1. Soil sampling was conducted at the Paint Shop Area to assess whether the site is or has been a source of hazardous constituents released to the environment through spills or drum leakage.

Four soil samples and two duplicate samples collected at two locations (MND33-0062 and -0063) outside the paint shop building were analyzed for TCL VOCs, SVOCs, P/PCBs; TAL inorganics; and tritium. The validated analytical results for all analytes detected at concentrations above the laboratory reporting limits for each sample are presented in Table III.5.

3.1.1. Volatile Organic Compounds

VOCs were not detected in soil samples from the Paint Shop Area at concentrations above laboratory reporting limits.

3.1.2. Semivolatile Organic Compounds

Three SVOCs, benzo(a)pyrene, benzo(b)fluoranthene, and pyrene, were detected in surface soil sample MND33-0063-0001 at concentrations above their respective PRGs. These polycyclic aromatic hydrocarbon (PAH) compounds, detected at concentrations above PRGs in surface soils, may be a result of surface runoff from nearby asphalt surfaces (bitumen). No other SVOC was detected in the Paint Shop soil samples at levels above PRGs.

3.1.3. Pesticides and Polychlorinated Biphenyls

Pesticides and PCBs were not detected in any samples from the Paint Shop Area at concentrations above laboratory reporting limits.

3.1.4. TAL Inorganics

Lead was detected at surface soil sample MND33-0062-0001 at a concentration above the proposed action level. The duplicate sample from this location showed a lead concentration below the proposed action level. Concentrations of lead were not detected at levels above the proposed action level in subsurface soil samples or from surface soils from sample location MND33-0062. The occurrence of lead at a concentration above the proposed action level in one surface soil sample appears to be an isolated occurrence. However, further characterization of soils in the area should be conducted to determine lead concentrations. No other inorganic compounds were detected in Paint Shop Area soils at concentrations above PRGs or proposed action levels.

3.1.5. Tritium

Tritium was not detected at concentrations above the laboratory reporting limit in any of the samples analyzed.

3.1.6. Summary

The analytical results of the soils investigation at the Paint Shop Area indicate that site activities involving the use and storage of paints, thinners, and cleaning solutions may have impacted soil quality in the vicinity of the site. As a result of these findings, further action involving site characterization at the Paint Shop Area is recommended.

TABLE III.5
PAINT SHOP AREA
Location: MND33-0062
Summary of analytical data
for analyte concentrations
above reporting limits
Report Date: 03/05/93

Parameter	Sample Id	Matrix	Units of Measure	Laboratory Reporting Limit	Validated Result (1)	Data Validation Qualifier	PRG
ALUMINUM, TOTAL	0001	S	mG/Kg	6.	3560.	J	7.8E+05
ALUMINUM, TOTAL	0002	S	mG/Kg	6.	4930.	J	7.8E+05
ALUMINUM, TOTAL	0003	S	mG/Kg	6.	4590.	J	7.8E+05
ALUMINUM, TOTAL	1001	S	mG/Kg	6.	2920.	J	7.8E+05
ALUMINUM, TOTAL	1002	S	mG/Kg	6.	3300.	J	7.8E+05
ANTIMONY, TOTAL	0001	S	mG/Kg	3.	32.3	J	1.1E+02
ANTIMONY, TOTAL	0002	S	mG/Kg	3.	12.6	J	1.1E+02
ANTIMONY, TOTAL	0003	S	mG/Kg	3.	17.5	J	1.1E+02
ANTIMONY, TOTAL	1001	S	mG/Kg	3.	38.	J	1.1E+02
ANTIMONY, TOTAL	1002	S	mG/Kg	3.	12.7	J	1.1E+02
ARSENIC, TOTAL	0001	S	mG/Kg	.2	1.5	J	2.1E+03
ARSENIC, TOTAL	0002	S	mG/Kg	.2	.79	J	2.1E+03
ARSENIC, TOTAL	0003	S	mG/Kg	.2	.83	J	2.1E+03
ARSENIC, TOTAL	1001	S	mG/Kg	.2	2.	J	2.1E+03
ARSENIC, TOTAL	1002	S	mG/Kg	.2	.76	J	2.1E+03
BARIUM, TOTAL	0001	S	mG/Kg	.2	32.9		1.9E+04
BARIUM, TOTAL	0002	S	mG/Kg	.2	30.5		1.9E+04
BARIUM, TOTAL	0003	S	mG/Kg	.2	19.		1.9E+04
BARIUM, TOTAL	1001	S	mG/Kg	.2	26.9		1.9E+04
BARIUM, TOTAL	1002	S	mG/Kg	.2	18.8		1.9E+04
BERYLLIUM	0001	S	mG/Kg	.2	.69		1.5E-01
BERYLLIUM	0002	S	mG/Kg	.2	.74		1.5E-01
BERYLLIUM	0003	S	mG/Kg	.2	.66		1.5E-01
BERYLLIUM	1001	S	mG/Kg	.2	.67		1.5E-01
BERYLLIUM	1002	S	mG/Kg	.2	.66		1.5E-01
BIS(2-ETHYLHEXYL)PHTHALATE	0001	S	mG/Kg	0.4	1.4	J	4.6E+01
BIS(2-ETHYLHEXYL)PHTHALATE	0002	S	mG/Kg	0.39	1.7	J	4.6E+01
BIS(2-ETHYLHEXYL)PHTHALATE	0003	S	mG/Kg	0.37	0.84	J	4.6E+01
BIS(2-ETHYLHEXYL)PHTHALATE	1001	S	mG/Kg	0.39	1.5	J	4.6E+01
BIS(2-ETHYLHEXYL)PHTHALATE	1002	S	mG/Kg	0.37	1.6	J	4.6E+01
CADMIUM, TOTAL	0001	S	mG/Kg	.2	7.2	J	1.4E+02
CADMIUM, TOTAL	0003	S	mG/Kg	.2	2.7	J	1.4E+02
CADMIUM, TOTAL	1001	S	mG/Kg	.2	18.	J	1.4E+02
CALCIUM, TOTAL	0001	S	mG/Kg	2.	175000.		NA
CALCIUM, TOTAL	0002	S	mG/Kg	2.	246000.		NA
CALCIUM, TOTAL	0003	S	mG/Kg	2.	202000.		NA
CALCIUM, TOTAL	1001	S	mG/Kg	2.	174000.		NA
CALCIUM, TOTAL	1002	S	mG/Kg	2.	279000.		NA
CHROMIUM, TOTAL	0001	S	mG/Kg	1.	29.8		1.4E+03
CHROMIUM, TOTAL	0002	S	mG/Kg	1.	29.		1.4E+03
CHROMIUM, TOTAL	0003	S	mG/Kg	1.	26.9		1.4E+03
CHROMIUM, TOTAL	1001	S	mG/Kg	1.	35.8		1.4E+03
CHROMIUM, TOTAL	1002	S	mG/Kg	1.	27.7		1.4E+03
COBALT, TOTAL	0001	S	mG/Kg	1.	7.	J	3.9E+01
COBALT, TOTAL	0002	S	mG/Kg	1.	7.9	J	3.9E+01
COBALT, TOTAL	0003	S	mG/Kg	1.	8.2	J	3.9E+01

PRG - Preliminary Remediation Goals (Risk Based)
J - The associated value is an estimated quantity
I - Initial Analysis
S - Soil
mG/Kg - Milligrams per Kilogram
(1) - This includes laboratory results that were not qualified from data validation, but were accepted by data validators

General
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Attachment 3: Page

TABLE III.5
PAINT SHOP AREA
Location: MND33-0062
Summary of analytical data
for analyte concentrations
above reporting limits
Report Date: 03/05/93

Parameter	Sample Id	Matrix	Units of Measure	Laboratory Reporting Limit	Validated Result (1)	Data Validation Qualifier	PRG	F I
COBALT, TOTAL	1001	S	mG/Kg	1.	7.2	J	3.9E+01	
COBALT, TOTAL	1002	S	mG/Kg	1.	5.7	J	3.9E+01	
COPPER, TOTAL	0001	S	mG/Kg	1.	19.6		1.0E+04	
COPPER, TOTAL	0002	S	mG/Kg	1.	15.3	J	1.0E+04	
COPPER, TOTAL	0003	S	mG/Kg	1.	13.9	J	1.0E+04	
COPPER, TOTAL	1001	S	mG/Kg	1.	21.9		1.0E+04	
COPPER, TOTAL	1002	S	mG/Kg	1.	13.7	J	1.0E+04	
IRON, TOTAL	0001	S	mG/Kg	1.	9080.	J	NA	
IRON, TOTAL	0002	S	mG/Kg	1.	13400.	J	NA	
IRON, TOTAL	0003	S	mG/Kg	1.	13600.	J	NA	
IRON, TOTAL	1001	S	mG/Kg	1.	7410.	J	NA	
IRON, TOTAL	1002	S	mG/Kg	1.	8510.	J	NA	
LEAD, TOTAL	0001	S	mG/Kg	.2	148.	J	5.3E+01	I
LEAD, TOTAL	0002	S	mG/Kg	.2	6.4	J	5.3E+01	I
LEAD, TOTAL	0003	S	mG/Kg	.2	5.3	J	5.3E+01	I
LEAD, TOTAL	1001	S	mG/Kg	.2	48.3	J	5.3E+01	I
LEAD, TOTAL	1002	S	mG/Kg	.2	6.2	J	5.3E+01	I
MAGNESIUM, TOTAL	0001	S	mG/Kg	5.	50000.		NA	I
MAGNESIUM, TOTAL	0002	S	mG/Kg	5.	5040.		NA	I
MAGNESIUM, TOTAL	0003	S	mG/Kg	.5	16400.		NA	I
MAGNESIUM, TOTAL	1001	S	mG/Kg	5.	63500.		NA	I
MAGNESIUM, TOTAL	1002	S	mG/Kg	5.	4600.		NA	I
MANGANESE, TOTAL	0001	S	mG/Kg	.2	361.		2.7E+04	I
MANGANESE, TOTAL	0002	S	mG/Kg	.2	327.		2.7E+04	I
MANGANESE, TOTAL	0003	S	mG/Kg	.2	390.		2.7E+04	I
MANGANESE, TOTAL	1001	S	mG/Kg	.2	310.		2.7E+04	I
MANGANESE, TOTAL	1002	S	mG/Kg	.2	302.		2.7E+04	I
NICKEL, TOTAL	0001	S	mG/Kg	2.	16.7		5.4E+03	I
NICKEL, TOTAL	0002	S	mG/Kg	2.	13.3	J	5.4E+03	I
NICKEL, TOTAL	0003	S	mG/Kg	2.	14.3	J	5.4E+03	I
NICKEL, TOTAL	1001	S	mG/Kg	2.	18.2		5.4E+03	I
NICKEL, TOTAL	1002	S	mG/Kg	2.	9.6	J	5.4E+03	I
POTASSIUM, TOTAL	0001	S	mG/Kg	10.	395.		NA	I
POTASSIUM, TOTAL	0002	S	mG/Kg	10.	679.		NA	I
POTASSIUM, TOTAL	0003	S	mG/Kg	10.	833.		NA	I
POTASSIUM, TOTAL	1001	S	mG/Kg	10.	284.		NA	I
POTASSIUM, TOTAL	1002	S	mG/Kg	10.	582.		NA	I
SILVER, TOTAL	0001	S	mG/Kg	1.	18.9	J	1.4E+03	I
SILVER, TOTAL	0002	S	mG/Kg	1.	20.6	J	1.4E+03	I
SILVER, TOTAL	0003	S	mG/Kg	1.	18.5	J	1.4E+03	I
SILVER, TOTAL	1001	S	mG/Kg	1.	19.1	J	1.4E+03	I
SILVER, TOTAL	1002	S	mG/Kg	1.	21.1	J	1.4E+03	I
SODIUM, TOTAL	0001	S	mG/Kg	10.	319.		NA	I
SODIUM, TOTAL	0002	S	mG/Kg	10.	264.		NA	I
SODIUM, TOTAL	0003	S	mG/Kg	10.	219.		NA	I
SODIUM, TOTAL	1001	S	mG/Kg	10.	326.		NA	I

PRG - Preliminary Remediation Goals (Risk Based)
J - The associated value is an estimated quantity
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S - Soil
mG/Kg - Milligrams per Kilogram
(1) - This includes laboratory results that were not qualified from data validation, but were accepted by data validators

General
Chemistry

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TABLE III.5
PAINT SHOP AREA
Location: MND33-0062
Summary of analytical data
for analyte concentrations
above reporting limits
Report Date: 03/05/93

Parameter	Sample Id	Matrix	Units of Measure	Laboratory Reporting Limit	Validated Result (1)	Data Validation Qualifier	PRG
SODIUM, TOTAL	1002	S	mG/Kg	10.	210.		NA
VANADIUM, TOTAL	0001	S	mG/Kg	1.	22.7	J	1.9E+03
VANADIUM, TOTAL	0002	S	mG/Kg	1.	19.4	J	1.9E+03
VANADIUM, TOTAL	0003	S	mG/Kg	1.	18.5	J	1.9E+03
VANADIUM, TOTAL	1001	S	mG/Kg	1.	23.3	J	1.9E+03
VANADIUM, TOTAL	1002	S	mG/Kg	1.	17.2	J	1.9E+03
ZINC, TOTAL	0001	S	mG/Kg	.5	60.4	J	5.4E+04
ZINC, TOTAL	0002	S	mG/Kg	.5	26.6	J	5.4E+04
ZINC, TOTAL	0003	S	mG/Kg	.5	30.7	J	5.4E+04
ZINC, TOTAL	1001	S	mG/Kg	.5	51.8	J	5.4E+04
ZINC, TOTAL	1002	S	mG/Kg	.5	18.5	J	5.4E+04

PRG - Preliminary Remediation Goals (Risk Based)
J - The associated value is an estimated quantity
I - Initial Analysis
S - Soil
mG/Kg - Milligrams per Kilogram
(1) - This includes laboratory results that were not qualified from data validation, but were accepted by data validators

General Chemistry

Attachment 3

TABLE III.5
PAINT SHOP AREA
Location: MWD33-0063
Summary of analytical data
for analyte concentrations
above reporting limits
Report Date: 03/05/93

Parameter	Sample Id	Matrix	Units of Measure	Laboratory Reporting Limit	Validated Result (1)	Data Validation Qualifier	PRG	Run Type
ALUMINUM, TOTAL	0001	S	mG/Kg	6.	6560.		7.8E+05	I
ARSENIC, TOTAL	0001	S	mG/Kg	.2	5.5	J	2.1E+03	I
BARIUM, TOTAL	0001	S	mG/Kg	.2	67.1	J	1.9E+04	I
BENZO(A)ANTHRACENE	0001	S	mG/Kg	0.33	0.51	J	6.0E-01	I
BENZO(A)PYRENE	0001	S	mG/Kg	0.33	0.35	J	8.8E-02	I
BENZO(B)FLUORANTHENE	0001	S	mG/Kg	0.33	0.75	J	6.4E-01	I
BERYLLIUM	0001	S	mG/Kg	.2	.63		1.5E-01	I
BIS(2-ETHYLHEXYL)PHTHALATE	0001	S	mG/Kg	0.33	0.51	J	4.6E+01	I
CADMIUM, TOTAL	0001	S	mG/Kg	.2	1.1		1.4E+02	I
CALCIUM, TOTAL	0001	S	mG/Kg	2.	9540.		NA	I
CHROMIUM, TOTAL	0001	S	mG/Kg	1.	17.7		1.4E+03	I
CHRYSENE	0001	S	mG/Kg	0.33	0.73	J	2.0E+01	I
COBALT, TOTAL	0001	S	mG/Kg	1.	9.8		3.9E+01	I
COPPER, TOTAL	0001	S	mG/Kg	1.	22.9		1.0E+04	I
CYANIDE	0001	S	mG/Kg	.1	.16	J	5.4E+03	I
FLUORANTHENE	0001	S	mG/Kg	0.33	1.3	J	1.1E+04	I
IRON, TOTAL	0001	S	mG/Kg	1.	11900.	J	NA	I
LEAD, TOTAL	0001	S	mG/Kg	.2	33.8		5.3E+01	I
MAGNESIUM, TOTAL	0001	S	mG/Kg	5.	4660.		NA	I
MANGANESE, TOTAL	0001	S	mG/Kg	.2	521.	J	2.7E+04	I
NICKEL, TOTAL	0001	S	mG/Kg	2.	15.8		5.4E+03	I
PHENANTHRENE	0001	S	mG/Kg	0.33	0.83	J	7.8E+03	I
POTASSIUM, TOTAL	0001	S	mG/Kg	10.	1130.		NA	I
PYRENE	0001	S	mG/Kg	0.33	1.3	J	1.1E+00	I
SILVER, TOTAL	0001	S	mG/Kg	1.	3.		1.4E+03	I
SODIUM, TOTAL	0001	S	mG/Kg	10.	39.4		NA	I
VANADIUM, TOTAL	0001	S	mG/Kg	1.	20.7		1.9E+03	I
ZINC, TOTAL	0001	S	mG/Kg	.5	104.	J	5.4E+04	I

PRG - Preliminary Remediation Goals (Risk Based)
J - The associated value is an estimated quantity
I - Initial Analysis
S - Soil
mG/Kg - Milligrams per Kilogram
(1) - This includes laboratory results that were not qualified from data validation, but were accepted by data validators

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Chemistry

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Environmental Restoration Program

OPERABLE UNIT 9, SITE SCOPING REPORT: VOLUME 7 - WASTE MANAGEMENT

MOUND PLANT
MIAMISBURG, OHIO

February 1993

FINAL
(Revision 0)

Department of Energy
Albuquerque Field Office

Environmental Restoration Program
EG&G Mound Applied Technologies

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3. SUPPORT OPERATIONS AND FACILITIES: WASTE GENERATION

The support facilities at Mound have served the needs of a variety of programs that have come and gone at the plant in its more than 40-year history. Besides the basics, such as power and water, these support facilities have included plating and paint shops, maintenance shops, building heating and cooling, sanitary wastewater treatment, photoprocessing, analytical laboratories, D&D program, and the environmental monitoring program. The following subsections provide summary descriptions of the support facilities that generate significant volumes of wastes. These descriptions are not meant to be, nor are they, exhaustive. Figure 3.1 shows the locations of the support facilities.

3.1. PAINT SHOP

The paint shop, which began operating in 1963, is in the north-central portion of Mound, on the Main Hill (Figure 3.1). The shop is used for both maintenance and production parts painting. Maintenance work includes the painting of such items as racks and furniture. Production work includes the painting of metal shipping containers, styrofoam shipping trays, and test panels. All painting is done inside spray booths.

Until 1987, paint overspray was removed from the air using a water scrub and recirculation system. The water containing the paint contaminants was circulated through a vessel containing an Oakite powder to suppress the odor. Once a month, the Oakite and water solution would be drained from the vessel via an effluent line that discharged to the storm sewer; the plant drainage ditch; and, ultimately, the Great Miami River. The water scrub and recirculation system was then recharged with fresh water and Oakite. The waste products discharged to the storm sewer contained lead, dichloromethane, organic solvents, coal tar-based paints, chromates, toluenes, and aromatic solvents.

In 1987, the wet scrub paint removal system was replaced with a dry system using filters. Initially, a paper filter was used to remove the paint particles, but the paper filter was later replaced with a more durable paper and fiberglass filter. Upon replacement, the used filters are dried, bagged, and placed in the trash dumpster for disposal.

Other waste materials generated at the paint shop include unused paint, solvents, thinner, and solid trash. Florco is added to the leftover paint, and the mixture is placed in a spray booth and allowed to dry. The dried product is disposed of in the trash dumpster. The water-based and oil-based solvents and thinners are mixed together in a paint waste drum for disposal. The paint waste drum is kept on a concrete pad on the north side of the building. The drum is secured to the building, and the area is clearly marked. The waste liquids in the drum are picked up by Mound waste management personne

Attachment 3.

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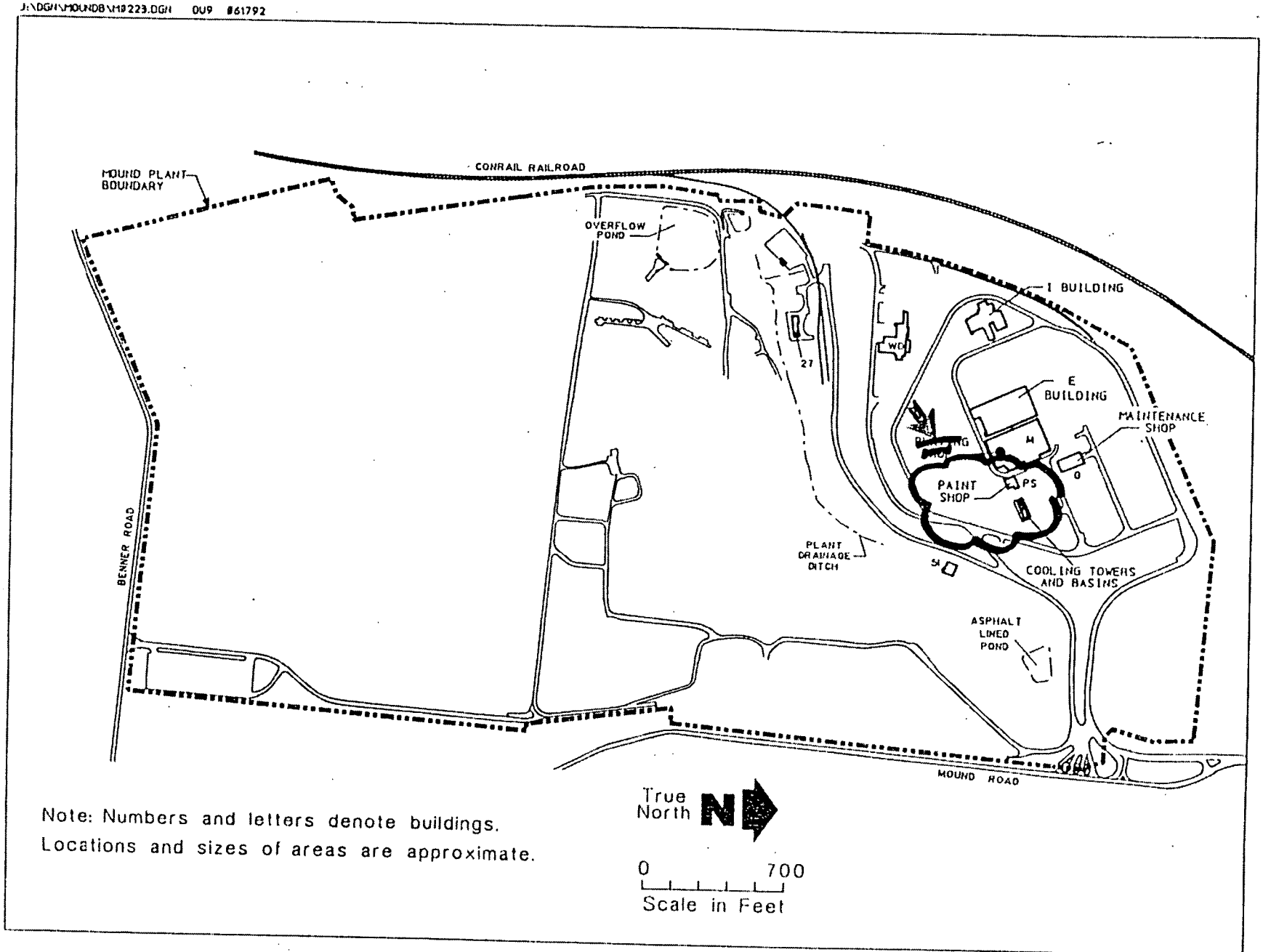

Figure 3.1 Support facilities.

Attachment 3.

for disposal at an approved off-plant disposal facility. Approximately one drum of waste is generated every three months. Solid trash is placed in dumpsters for disposal. The paint shop is still in operation (Parrett 1991).

3.2. PLATING SHOP

The Mound plating shop started in the M Building in the late 1940s (Figure 3.1). Plating processes and metal purification experiments were performed there. The shop itself consisted of eight to ten 150-gallon plating solution tanks that were handmade from boiler plate steel (Shawhan 1991). Sulfuric acid anodizing solution wastes and sodium hydroxide cleaning wastes were regenerated on an infrequent basis. The plating solutions were reused and generally recycled; but, when necessary, they were dumped into a large underground tank. The tank consisted of a concrete vault structure west of the original M Building that connected to the plant sanitary sewer. Releases of solutions to the sewer would often affect the bacterial populations of the Old SD Plant (Thomas 1991). The cascade rinse systems also drained to the underground tank.

In 1962, a production plating shop and a general plating shop were installed in the M Building, and the old plating shop was dismantled. During the dismantling process, the plating solutions were removed from the equipment and neutralized. All of the old tanks and equipment were removed. The underground tank was retained and reconnected to the new equipment.

In 1981, a new production plating shop was built on the south end of the M Building. In 1985 or 1986, a new general plating shop was built next to it. The new shops were built to upgrade the old equipment and use modern technology. The old equipment still exists in the M Building, but has been cleaned out. The waste products were drummed and disposed of off-plant through the waste management system.

3.2.1. Process Description

The production plating shop was used to plate weapons parts and to develop weapons reserve products. Processes performed in the production plating shop included chrome, gold, cadmium, copper, nickel and silver plating, passivating, anodizing, and coating.

The plating process began with an etching of the component in hydrochloric acid, followed by a rinse, a nickel chloride strike, a primary and secondary rinse, a hand rinse, a cascade rinse, and a spray rinse using deionized water. The component was then immersed in the plating bath, and the rinses described above were repeated.

PRELIMINARY REVIEW/VISUAL SITE INSPECTION FOR RCRA FACILITY OF MOUND PLANT

JULY 1988

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Table 2

Other Areas of Concern

Name	Contaminant	Location	Volume/Area	Cause	Reference
Plutonium Spill Area	Plutonium	See Figure V.1., Page V-19, Ref. 66	Unknown	Spilled Solutions	55
Paint Shop Spills	Paint, paint wastes	Soil adjacent to Paint Shop	Unknown	Leaks, spills, or dumping	55
Powerhouse Spills	Oil	Soil adjacent to Powerhouse	Unknown	Spills	55
WD Building Underground Tanks (4)	Radioactive Wastes	WD Building	Unknown	Corrosion leaks (suspected)	55
Building 61 Spills	Waste Oil	Soil adjacent to Building 61	Unknown	Dumping (suspected)	55
Building 9 Spills	Waste Oil	Soil adjacent to Building 9	Unknown	Dumping	55
Valley-3 area	Sand Containing Cobalt-60	Between the Overflow Pond and Well No. 1	15,000 ft^2	Contaminated Soil dumping area	81
Main Hill-6	Sand Containing polonium-210 and cobalt-60	North of Building 76 east of Building 65	2,100 ft^2	Soil dumping area	81
SM/PP Hill 4	Thorium-238 contaminated dirt	West of Building 30	25,000 ft^2	Dumping area for contaminated dirt	81
	Polonium contaminated concrete	West of Building 30	13,000 ft^2	Dumping area	81

Attachment 3

44. Harry N. Hill, Area Manager, DOE-Mound Facility, Letter to Donna Gorby Lee, Regional Air Pollution Control Agency, May 1, 1985.

45. James A. Morley, Area Manager, DOE - Mound Facility, Letter to Sandra Turner, Ohio EPA, July 15, 1985.

46. Sandra J. Kemper, Manager, Permits and Compliance Section, Ohio EPA, Transmittal of NPDES Permit to DOE-Mound Facility, September 30, 1985.

47. George Glaser, Alloyd Asbestos Abatement Company, Letter to Jack Kemp, Regional Air Pollution Control Agency, November 4, 1985.

48. Scott Shane, Ohio EPA, Potential Hazardous Waste Site Preliminary Assessment, December 9, 1985.

49. Glenn Statement Releasing the GAO Report on the Three Ohio Defense Facilities, December 17, 1985.

50. Mary L. Walker, Assistant Secretary, Environment, Safety, and Health, Department of Energy, Washington, D.C., Letter to Director, Ohio EPA, January 31, 1986.

51. James C. Simpson, Unit Supervisor, Water Pollution Control, Ohio EPA, Transmittal of NPDES Compliance Insepction Report to James Morley, DOE-Mound Facility, February 25, 1986.

52. Thomas G. Rigo, Manager, Field Operations Section, Division of Air Pollution Control, Ohio EPA, Transmittal of Permit to Install to Dave Ingle, DOE-Mound Facility, March 19, 1986.

53. Kendra H. Dearth, Industrial Wastewater Group, Ohio EPA, Report on Plans for Sand Filters at Sanitary Wastewater Treatment Plant to Serve U.S. DOE-Mound Facility, March 20, 1986.

54. Sandra J. Kemper, Permits and Compliance Programs, Ohio EPA, Transmittal of Permit to Install to DOE-Mound Facility, March 27, 1986.

55. Albuquerque Operations Office Environment, Safety, and Health Division, Environmental Programs Branch, Comprehensive Environmental Assessment and Response Program, Phase I, Installation Assessment Mound, Draft, April 1986.

56. James A. Morley, Area Manager, DOE-Mound Facility, Transmittal of Air Pollution Control Information to Larry F. Kertcher, U.S. EPA, Region V, April 24, 1986.

57. James A. Morley, Area Manager, DOE-Mound Facility, Transmittal of Reporting and Testing Requirements to Robert Phelps, Ohio EPA, May

Attachment 3

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ALBUQUERQUE OPERATIONS OFFICE
ENVIRONMENT, SAFETY AND HEALTH DIVISION
ENVIRONMENTAL PROGRAMS BRANCH

COMPREHENSIVE ENVIRONMENTAL ASSESSMENT AND RESPONSE PROGRAM

PHASE I:
INSTALLATION ASSESSMENT
MOUND

NOT FOR PUBLIC DISSEMINATION

May contain unclassified controlled nuclear information subject to Section 148 of the AEA, as amended (42 USC 2168). Approval by the Department of Energy prior to release is required.

April 1986

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Table V.2

Planned Future Actions for Category 2
Areas with Potential for Leaks and Spills of Oils or Hazardous Substances

Area	Planned Future Actions (PFA)
Paint Shop	The local area around the paint shop could have been contaminated as a result of leaks and spills or as a result of dumping. Paint shop wastes were disposed in the Mound area B landfill prior to disposal offsite by a commercial vendor and no major spills or leaks have been reported. Therefore, there should not be sufficient residual contamination of hazardous substances to pose an environmental problem in the paint shop area. (Interviews 1985.) CERCLA Finding--Negative for Federal Facility Site Discovery and Identification Findings (FFSDIF), Preliminary Assessment (PA), and Preliminary Site Inspection (PSI); therefore, a HRS Migration Mode Score is not calculated. PFA--No further action is warranted.
Powerhouse	The area around the powerhouse could be contaminated as the result of oil spills. No major leaks or spills have been reported in the powerhouse area that would result in sufficient residual contamination of oil to pose an environmental problem. (Interviews 1985.) CERCLA Finding--Negative for FFSDIF, PA, and PSI; therefore, a HRS Migration Mode Score is not calculated. PFA--No further action is warranted.
WD Bldg.	The four underground steel holding tanks for radioactive wastes have been subject to corrosion. The tanks have been recoated with epoxy. No major leaks have been reported in the holding tanks for radioactive wastes and their repair on several occasions has ensured that any slow undetectable leaks would have been repaired without significant losses. (Interviews 1985.) CERCLA Finding--Negative for FFSDIF, PA, and PSI; therefore, HRS and MHRS Migration Mode Scores are not calculated. PFA--No further action is warranted.
Bldg. 61	The Bldg. 61 area was the old heavy equipment area and could have been a spot for dumping waste oil. Dumping of waste oil has not been reported in the Bldg. 61 area and standard operating procedure was to dispose of waste oil in the Mound area B landfill prior to disposal/recycle offsite by a commercial vendor. Additionally, no major spills have been reported in the Bldg. 61 area. Therefore, the likelihood of residual oils in concentrations sufficient to pose environmental problems is remote. (Interviews 1985.) CERCLA Finding--Negative for FFSDIF, PA, and PSI; therefore, a HRS Migration Mode Score is not calculated. PFA--No further action is warranted.

Environmental Restoration Program

SOIL VAPOR RECONNAISSANCE
OPERABLE UNIT 2, MAIN HILL
OU-2 PHASE I TECHNICAL MEMORANDUM

MOUND PLANT
MIAMISBURG, OHIO

February 1995

FINAL

(Revision 0)

Department of Energy
Ohio Field Office

Environmental Restoration Program
EG&G Mound Applied Technologies

~~judged to be areas where spills could collect or enter the soil. Specific locations were selected based on surface drainage patterns and obvious cracks in the overlying concrete.~~

1.4.1.2. Paint Shop

The paint shop began operating in 1963. The shop is used for both maintenance and production parts painting. Maintenance work includes the painting of such items as racks and furniture. Production work includes the painting of metal shipping containers, styrofoam shipping trays, and test panels. All painting is done inside spray booths. Based on the high use of solvents in this building, it was determined that samples should be collected around the building. Specific locations were based on the drainage patterns from the building to the surrounding areas, the surface drainage patterns of the surrounding areas and obvious cracks in the concrete. Some locations were also influenced by underground utilities.

1.4.1.3. Building M - Plating Shop

The Mound plating shop started in the M Building in the late 1940s (Figure 1.2). Plating processes and metal purification experiments were performed there. The shop itself consisted of eight to ten 150-gallon plating solution tanks that were handmade from boiler plate steel (Shawhan 1991). Sulfuric acid anodizing solution wastes and sodium hydroxide cleaning wastes were regenerated on an infrequent basis. The plating solutions were reused and generally recycled; but, when necessary, they were dumped into a large underground tank. The tank consisted of a concrete vault structure west of the original M Building that connected to the plant sanitary sewer. The cascade rinse systems also drained to the underground tank. The condition of this tank will be discussed in the OU-2 subsurface utility investigation. Soil sampling will be conducted as part of Phase II activities.

In 1962, a production plating shop and a general plating shop were installed in the M Building, and the old plating shop was dismantled. During the dismantling process, the plating solutions were removed from the equipment and neutralized. All of the old tanks and equipment were removed. The underground tank was retained and reconnected to the new equipment.

In 1981, a new production plating shop was built on the south end of the M Building. In 1985 or 1986, a new general plating shop was built next to it. The new shops were built to upgrade the old equipment and use modern technology. The old equipment still exists in the M Building, but has been cleaned out. The waste products were drummed and disposed of off-plant through the waste management system.

3.3. PAINT SHOP AREA

Six of the target compounds were detected in the paint shop area. The two locations containing contamination were Boring #4014 and #4015. Freon 11 was detected at five locations at concentrations ranging from less than 3,571 to 15,893 ppb. Trans-1,2-DCE was detected at two locations at concentration of less than 2,273 and 6,818 ppb. 1,1-DCA was detected at five locations at concentrations ranging from less than 1,975 to 12,099 ppb. Cis-1,2-DCE was detected at three locations at concentrations ranging from less than 2,020 to 5,808 ppb. 1,1,1-TCA was detected at two locations at concentrations of 2,281 and 5,263 ppb. Toluene was detected at three locations at concentrations ranging from less than 526 to 789 ppb. Total volatile organics were detected at ranges from less than 1975 to 42,028 ppb. Analytical results for the Paint Shop area are presented in the following table. The results are also presented in the Appendix A.

Soil Vapor Analytical Results, Paint Shop

Location	Depth (ft)	1,1,1-TCA (ppb)	Toluene (ppb)	Freon 11 (ppb)	Trans-1,2-DCE (ppb)	1,1-DCA (ppb)	cis-1,2-DCE (ppb)	Total VOC (ppb)
4014	2.5	5,263.2	789.2	11,250.0	6,818.2	12,098.8	5,808.1	42,027.7
4014	5.0	ND	<526.3	5,892.9	ND	<1,975.3	ND	<8,394.5
4014	11.1	ND	ND	ND	ND	<1,975.3	ND	<1,975.3
4015	5.0	ND	ND	3,571.4	<2,273	ND	ND	<5,844.4
4015	7.5	2,280.7	<526.3	15,892.9	ND	3,456.8	2,020.2	26,449.6
4015	9.2	ND	ND	8,571.4	ND	1,975.3	<2,020.2	<12,566.9

ND - Nondetect ppb - parts per billion J - qualified as estimated

3.4. M BUILDING

Six compounds were detected in the M and E Building area. Freon 11 was detected at 10 locations at concentrations ranging from less than 2,857 to 22,500 ppb. Trans-1,2-DCE was detected at four locations at concentrations ranging from less than 2,020 to 4,293 ppb. 1,1,1-TCA was detected at four locations at concentrations ranging from less than 1,403 to 3,333 ppb. Cis-1,2-DCE was detected at five locations at concentrations ranging from less than 1,768 to 3,788 ppb. The compound PCE was found in one location at a concentration of 3,235 ppb. Toluene was detected at five locations at concentrations ranging from less than 526 to 1,053 ppb. Total volatile organics detected ranged from less than 2,857 to 34,967 ppb. All of the samples with detectable levels of contamination were from locations in the roadway on the south side of M Building. A summary of the analytical results for the M Building is presented in the following table as well as Appendices A and B.

decrease as the distance from the groundwater increases. An analysis of the data indicates that the concentration generally decrease with depth. Because of this and the approximate 50 foot depth to groundwater (DOE 1992a), soil vapor contamination found on the Main Hill probably originates from surface or near surface sources.

4.2.2. Climatic Factors

Climatic conditions affecting the migration of contamination include rainfall, atmospheric pressure changes, and temperature. Due to the wide coverage of the Main Hill with buildings, roads, sidewalks, and parking lots, rainfall, infiltration, and the resulting leaching of the soil column would be limited. The data, which indicates the surface boundary contains the highest levels of contamination, supports this assumption. If these factors had an affect on the migration of contamination, concentrations would decrease with depth and the surface would not be the area of maximum contamination (USDA 1904).

The wide coverage of the site with the physical features previously described would also limit the dispersion of the contamination due to volatilization and atmospheric pressure changes. These environmental factors would cause a decrease in concentrations near the surface. The data does not indicate that this has occurred, however, due to the coverage of the Main Hill with roads, sidewalks, and buildings which would limit volatilization and atmospheric pressure effects, no conclusions can be drawn from the data.

4.2.3. Underground Utilities

An analysis of the contamination patterns detected by the soil vapor investigation compared to the underground utility lines provides little correlation. The large numbers of underground utilities on the Main Hill makes it very difficult to assess the effect of the underground utilities as to the source or the transport of the contamination. However, an analysis of the concentration versus depth does indicate that underground utilities may be a source of contamination at one location. At the Paint Shop, Freon 11, 1,1-DCA and cis-1,2-DCE were detected at their highest concentrations at a depth of 7.5 feet. A sanitary sewer is located within 10 feet of this sample location at an approximate depth of 5 feet. The DS Building solvent storage shed is another area potentially impacted by underground utilities (sealed drain beneath shed). While the overall patterns of contamination at the site could be attributable to the underground utilities, there is not enough evidence to support an assumption that they are a major source or transport route.

APPENDIX A

SOIL VAPOR ANALYTICAL RESULTS

SAMPLE I.D.	Hole	DATE	DEPTH	Chloroform ppb	1,1,1-TCA ppb	TCE ppb	BDCM ppb	Toluene ppb	PCE ppb	Bromoform ppb	Comments
BUILDING PS											
M204-4000-4010	NA	4-20-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4009-3000	PH-09	4-20-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-PROBE ROD BLANK
M204-4009-0002.5	PH-09	4-20-94	2.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4009-0003.9	PH-09	4-20-94	3.9'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4012-0002.5	PH-12	4-20-94	2.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4012-0005.0	PH-12	4-20-94	5.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4012-0007.5	PH-12	4-20-94	7.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4012-0008.8	PH-12	4-20-94	8.8'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4000-4011	NA	4-20-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4013-0002.5	PH-13	4-20-94	2.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4013-0005.0	PH-13	4-20-94	5.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4013-0007.5	PH-13	4-20-94	7.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4013-1007.5	PH-13	4-20-94	7.5'	ND	ND	ND	ND	ND	ND	ND	QC-DUPLICATE SAMPLE
M204-4013-0009.2	PH-13	4-20-94	9.2'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4008-0002.5	PH-08	4-20-94	2.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4008-0004.9	PH-08	4-20-94	4.9'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4000-4013	NA	4-21-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4014-0002.5	PH-14	4-21-94	2.5'	ND	5243.2	ND	ND	789.5	ND	ND	SOIL-GAS SAMPLE
M204-4014-0005.0	PH-14	4-21-94	5.0'	ND	ND	ND	ND	< 526.3	ND	ND	SOIL-GAS SAMPLE
M204-4014-0007.5	PH-14	4-21-94	7.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4014-0010.0	PH-14	4-21-94	10.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4014-0011.1	PH-14	4-21-94	11.1'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4000-4014	NA	4-25-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4000-4015	NA	4-25-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-PROBE ROD BLANK
M204-4015-3000	PH-15	4-25-94	NA	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4015-0002.5	PH-15	4-25-94	2.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4015-0005.0	PH-15	4-25-94	5.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4015-0007.5	PH-15	4-25-94	7.5'	ND	2280.7	ND	ND	@ 526.3	ND	ND	SOIL-GAS SAMPLE
M204-4015-0009.2	PH-15	4-25-94	9.2'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4000-4016	NA	4-25-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4000-4017	NA	4-26-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4017-3000	PH-17	4-26-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-PROBE ROD BLANK
M204-4000-4018	PH-10	4-26-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4010-0002.5	PH-10	4-26-94	2.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4010-0005.0	PH-10	4-26-94	5.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4010-0007.5	PH-10	4-26-94	7.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4010-0010.0	PH-10	4-26-94	10.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4010-0012.3	PH-10	4-26-94	12.3'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4000-4019	NA	4-26-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4000-4020	NA	4-27-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4011-3000	PH-11	4-27-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-PROBE ROD BLANK
M204-4011-0002.5	PH-11	4-27-94	2.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4011-0005.0	PH-11	4-27-94	5.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4011-0007.5	PH-11	4-27-94	7.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4011-0010.0	PH-11	4-27-94	10.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4011-0012.1	PH-11	4-27-94	12.1'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
BUILDING DS											
M204-4000-4012	NA	4-21-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4028-3000	PH-28	4-21-94	NA	ND	ND	ND	ND	ND	ND	ND	QC-PROBE ROD BLANK
M204-4028-0002.5	PH-28	4-21-94	2.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4028-0005.0	PH-28	4-21-94	5.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4028-0007.5	PH-28	4-21-94	7.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4027-0002.5	PH-27	4-21-94	2.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4027-0005.0	PH-27	4-21-94	5.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4029-0002.5	PH-29	4-21-94	2.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4029-0005.0	PH-29	4-21-94	5.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4029-0007.5	PH-29	4-21-94	7.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4026-0002.5	PH-26	4-21-94	2.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4026-0005.0	PH-26	4-21-94	5.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4026-0007.5	PH-26	4-21-94	7.5'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4026-0010.0	PH-26	4-21-94	10.0'	ND	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE

ND Non Detect

NA Not Applicable

QC Quality Control

J Qualified as Estimated

ppb Parts Per Billion

< Less Than

SOIL GAS DATA (ABSOLUTE)

Table A.1. Soil Vapor Analytical Results

SAMPLE I.D.	Hole	DATE	DEPTH	Freon-11 ppb	Freon-113 ppb	trans-1,2-DCE ppb	1,1-DCA ppb	cis-1,2-DCE ppb	Total VOC ppb	Comments
BUILDING PS										
M204-4000-4010	NA	4-20-94	NA	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4009-3000	PH-09	4-20-94	NA	ND	ND	ND	ND	ND	ND	QC-PROBE ROD BLANK
M204-4009-0002.5	PH-09	4-20-94	2.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4009-0003.9	PH-09	4-20-94	3.9'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4012-0002.5	PH-12	4-20-94	2.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4012-0005.0	PH-12	4-20-94	5.0'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4012-0007.5	PH-12	4-20-94	7.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4012-0008.8	PH-12	4-20-94	8.8'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4000-4011	NA	4-20-94	NA	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4013-0002.5	PH-13	4-20-94	2.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4013-0005.0	PH-13	4-20-94	5.0'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4013-0007.5	PH-13	4-20-94	7.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4013-1007.5	PH-13	4-20-94	7.5'	ND	ND	ND	ND	ND	ND	QC-DUPLICATE SAMPLE
M204-4013-0009.2	PH-13	4-20-94	9.2'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4008-0002.5	PH-08	4-20-94	2.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4008-0004.9	PH-08	4-20-94	4.9'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4000-4012	NA	4-21-94	NA	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4014-0002.5	PH-14	4-21-94	2.5'	11250.0	ND	6818.2	12098.8	5808.1	42027.7	SOIL-GAS SAMPLE
M204-4014-0005.0	PH-14	4-21-94	5.0'	5892.9	ND	ND	< 1975.3	ND	8394.5	SOIL-GAS SAMPLE
M204-4014-0007.5	PH-14	4-21-94	7.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4014-0010.0	PH-14	4-21-94	10.0'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4014-0011.1	PH-14	4-21-94	11.1'	ND	ND	ND	< 1975.3	ND	1975.3	SOIL-GAS SAMPLE
M204-4000-4014	NA	4-25-94	NA	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4000-4015	NA	4-25-94	NA	ND	ND	ND	ND	ND	ND	QC-PROBE ROD BLANK
M204-4015-3000	PH-15	4-25-94	NA	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4015-0002.5	PH-15	4-25-94	2.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4015-0005.0	PH-15	4-25-94	5.0'	3571.4	ND	<2273	ND	ND	5844.4	SOIL-GAS SAMPLE
M204-4015-0007.5	PH-15	4-25-94	7.5'	15892.9	ND	ND	3456.8	2020.2	26449.6	SOIL-GAS SAMPLE
M204-4015-0009.2	PH-15	4-25-94	9.2'	8571.4	ND	ND	1975.3	< 2020.2	12566.9	SOIL-GAS SAMPLE
M204-4000-4016	NA	4-25-94	NA	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4000-4017	NA	4-26-94	NA	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4017-3000	PH-17	4-26-94	NA	ND	ND	ND	ND	ND	ND	QC-PROBE ROD BLANK
M204-4000-4018	PH-10	4-26-94	NA	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4010-0002.5	PH-10	4-26-94	2.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4010-0005.0	PH-10	4-26-94	5.0'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4010-0007.5	PH-10	4-26-94	7.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4010-0010.0	PH-10	4-26-94	10.0'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4010-0012.3	PH-10	4-26-94	12.3'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4000-4019	NA	4-26-94	NA	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4000-4020	NA	4-27-94	NA	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4011-3000	PH-11	4-27-94	NA	ND	ND	ND	ND	ND	ND	QC-PROBE ROD BLANK
M204-4011-0002.5	PH-11	4-27-94	2.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4011-0005.0	PH-11	4-27-94	5.0'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4011-0007.5	PH-11	4-27-94	7.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4011-0010.0	PH-11	4-27-94	10.0'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4011-0012.1	PH-11	4-27-94	12.1'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
BUILDING DS										
M204-4000-4012	NA	4-21-94	NA	ND	ND	ND	ND	ND	ND	QC-SYSTEM BLANK
M204-4028-3000	PH-28	4-21-94	NA	ND	ND	ND	ND	ND	ND	QC-PROBE ROD BLANK
M204-4028-0002.5	PH-28	4-21-94	2.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4028-0005.0	PH-28	4-21-94	5.0'	ND	25974.0	ND	ND	ND	25974	SOIL-GAS SAMPLE
M204-4028-0007.5	PH-28	4-21-94	7.5'	ND	49480.5	ND	ND	ND	49480.5	SOIL-GAS SAMPLE
M204-4027-0002.5	PH-27	4-21-94	2.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4027-0005.0	PH-27	4-21-94	5.0'	<1607	ND	ND	ND	ND	1607	SOIL-GAS SAMPLE
M204-4029-0002.5	PH-29	4-21-94	2.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4029-0005.0	PH-29	4-21-94	5.0'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4029-0007.5	PH-29	4-21-94	7.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4026-0002.5	PH-26	4-21-94	2.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4026-0005.0	PH-26	4-21-94	5.0'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4026-0007.5	PH-26	4-21-94	7.5'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE
M204-4026-0010.0	PH-26	4-21-94	10.0'	ND	ND	ND	ND	ND	ND	SOIL-GAS SAMPLE

ND Non Detect

NA Not Applicable

QC Quality Control

J Qualified as Estimated

ppb Parts Per Billion

< Less Than

SOIL GAS DATA (ABSOLUTE)

Table A.1. Soil Vapor Analytical Results

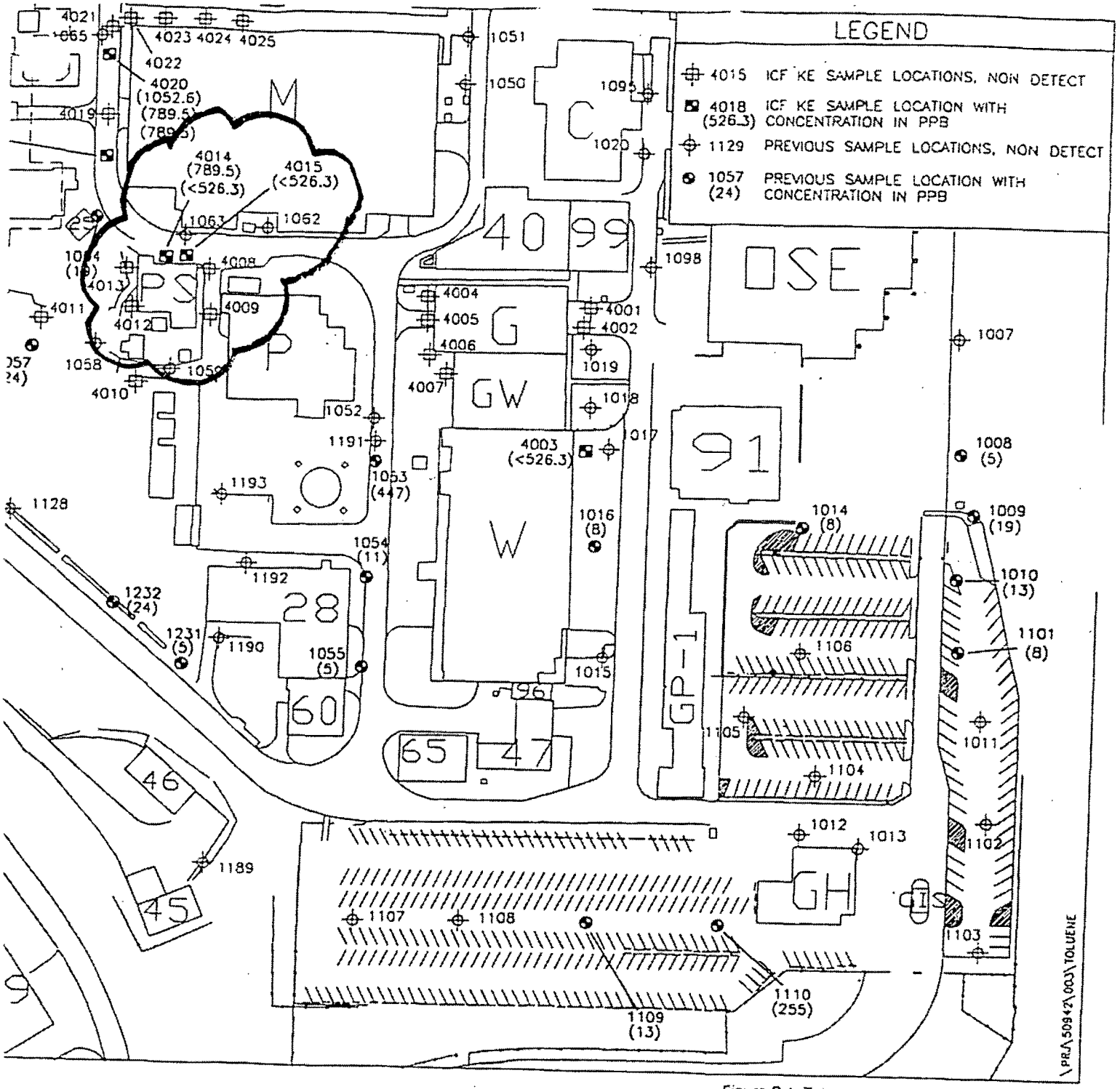

Figure B.1. Toluene Results, Main Hill East

Attachment 3:

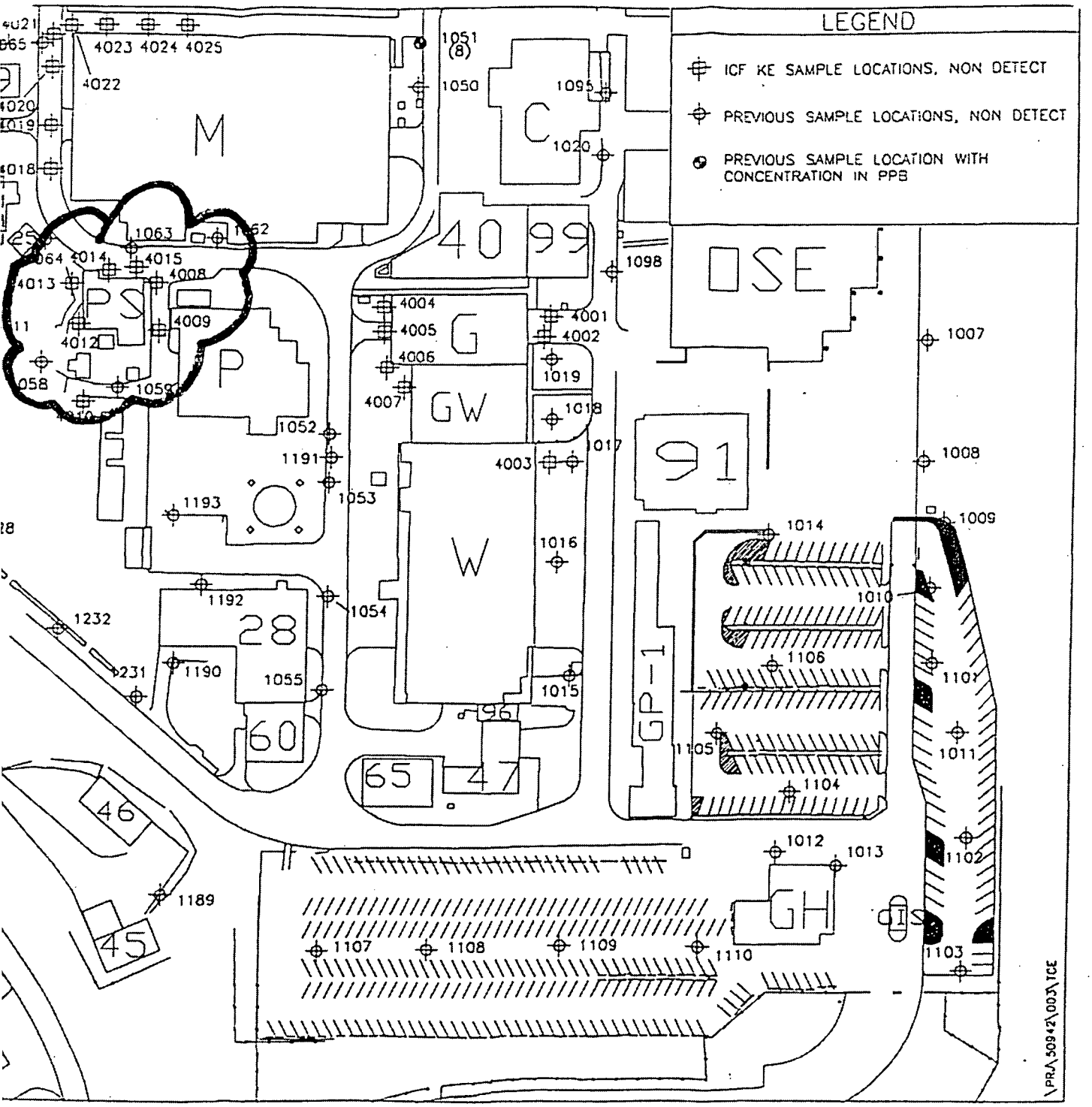

Figure B.3 TCE Results, Main Hill East

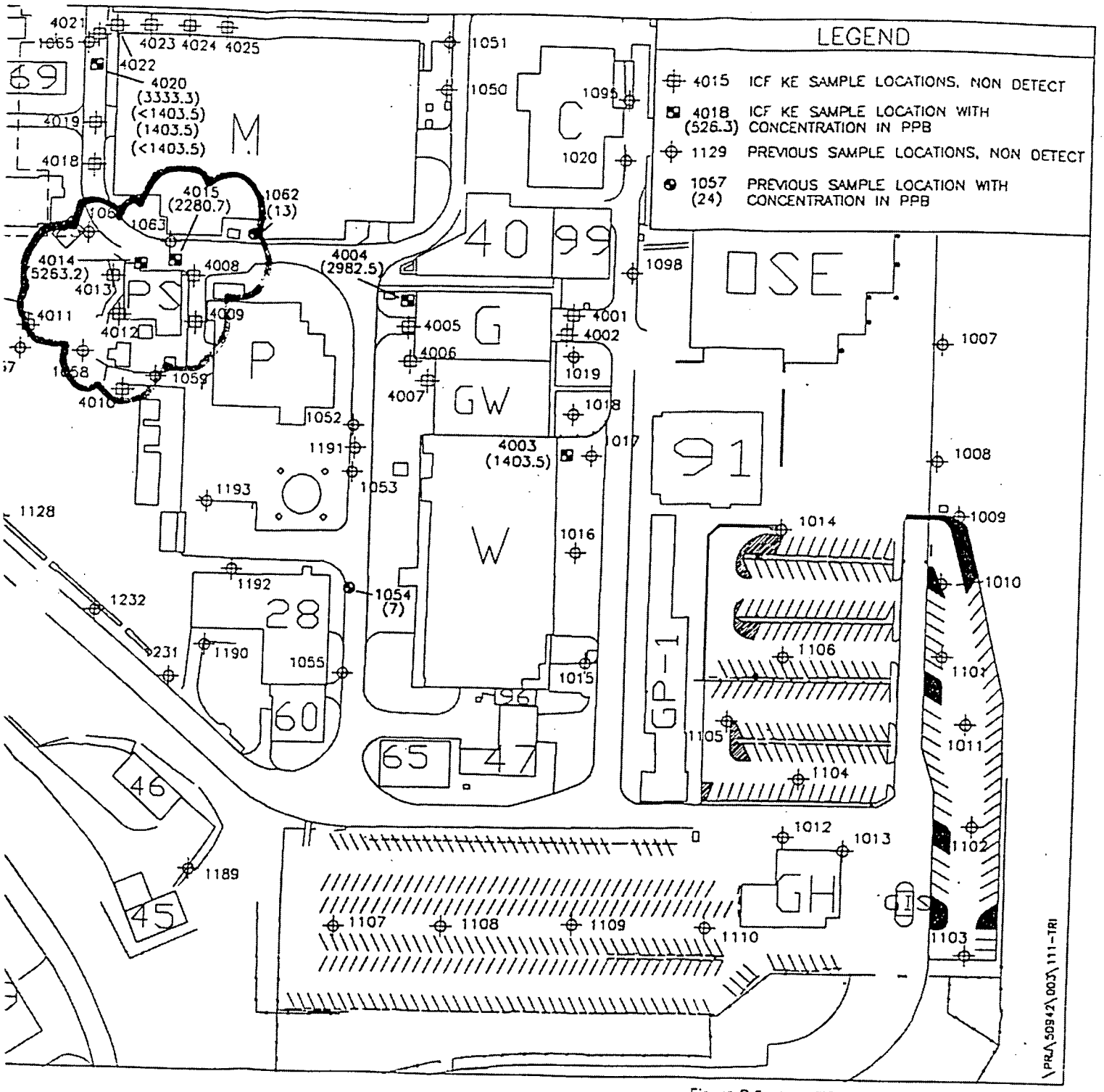

Figure B.5. 1,1,1-TCA Results, Main Hill East

Attachment 3:

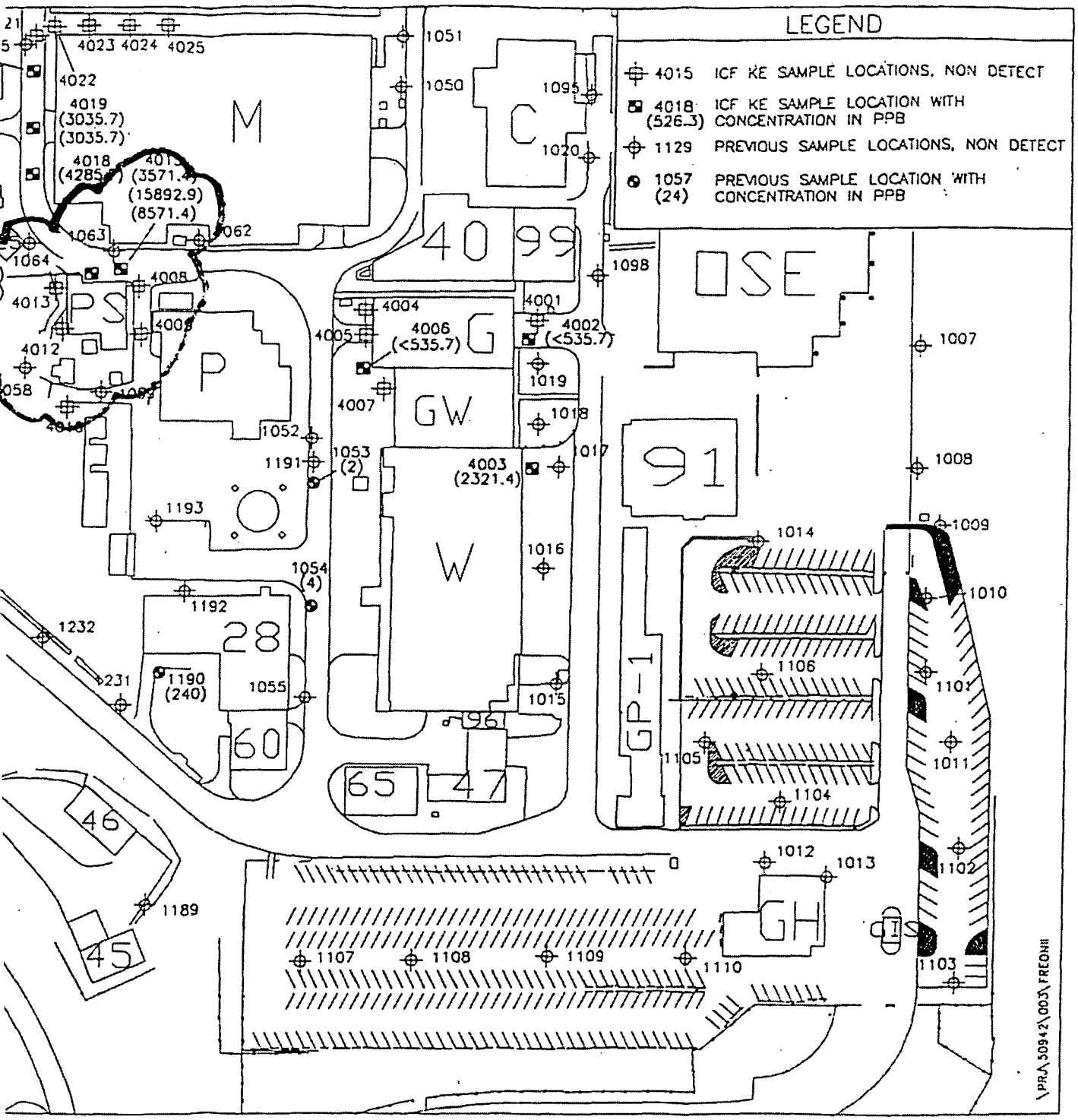

Figure B.7. Freon 11 Results, Main Hill East

Attachment 3.

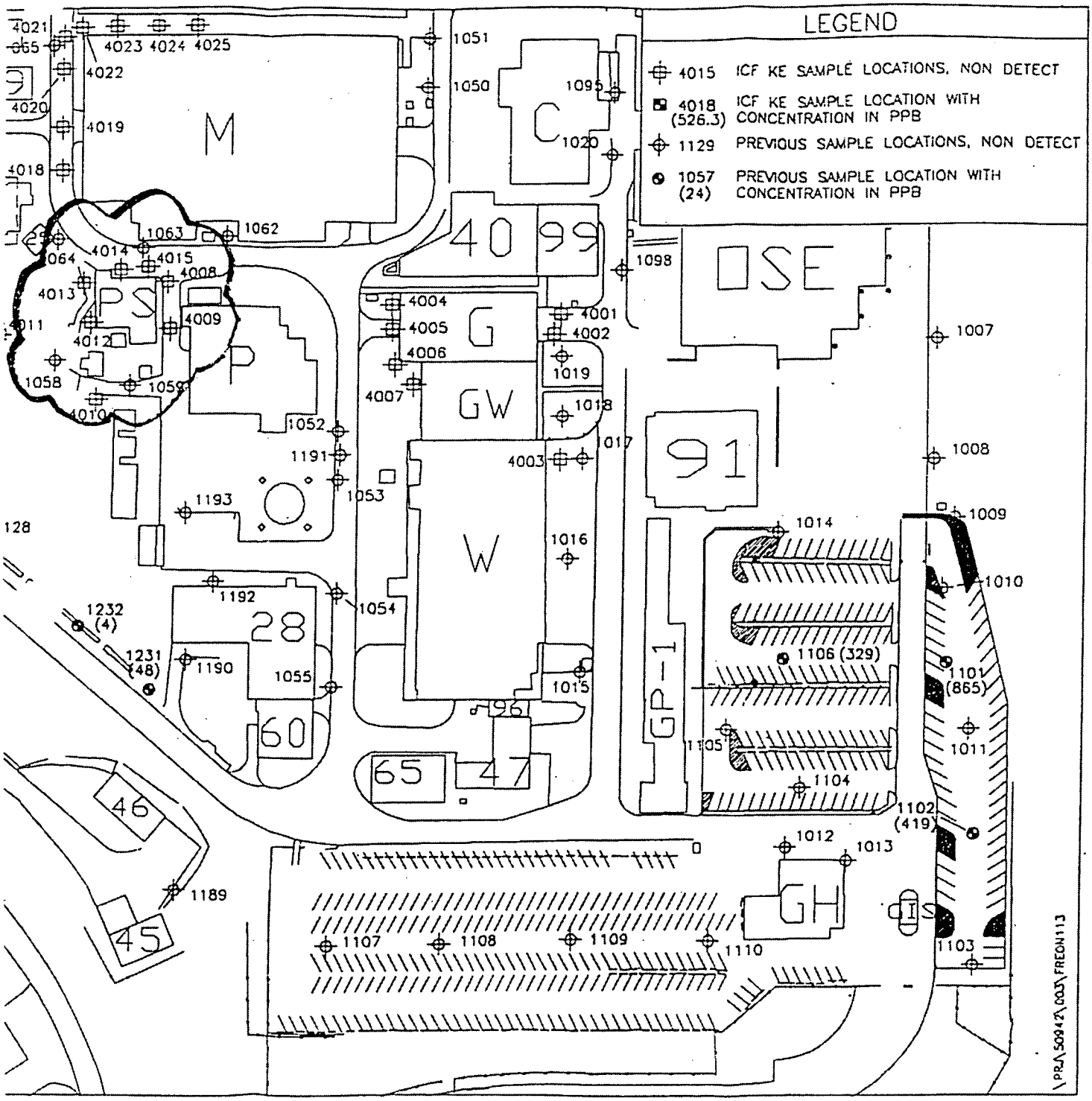

Figure B.9. Freon 113 Results, Main Hill East

Attachment 3: Page 4

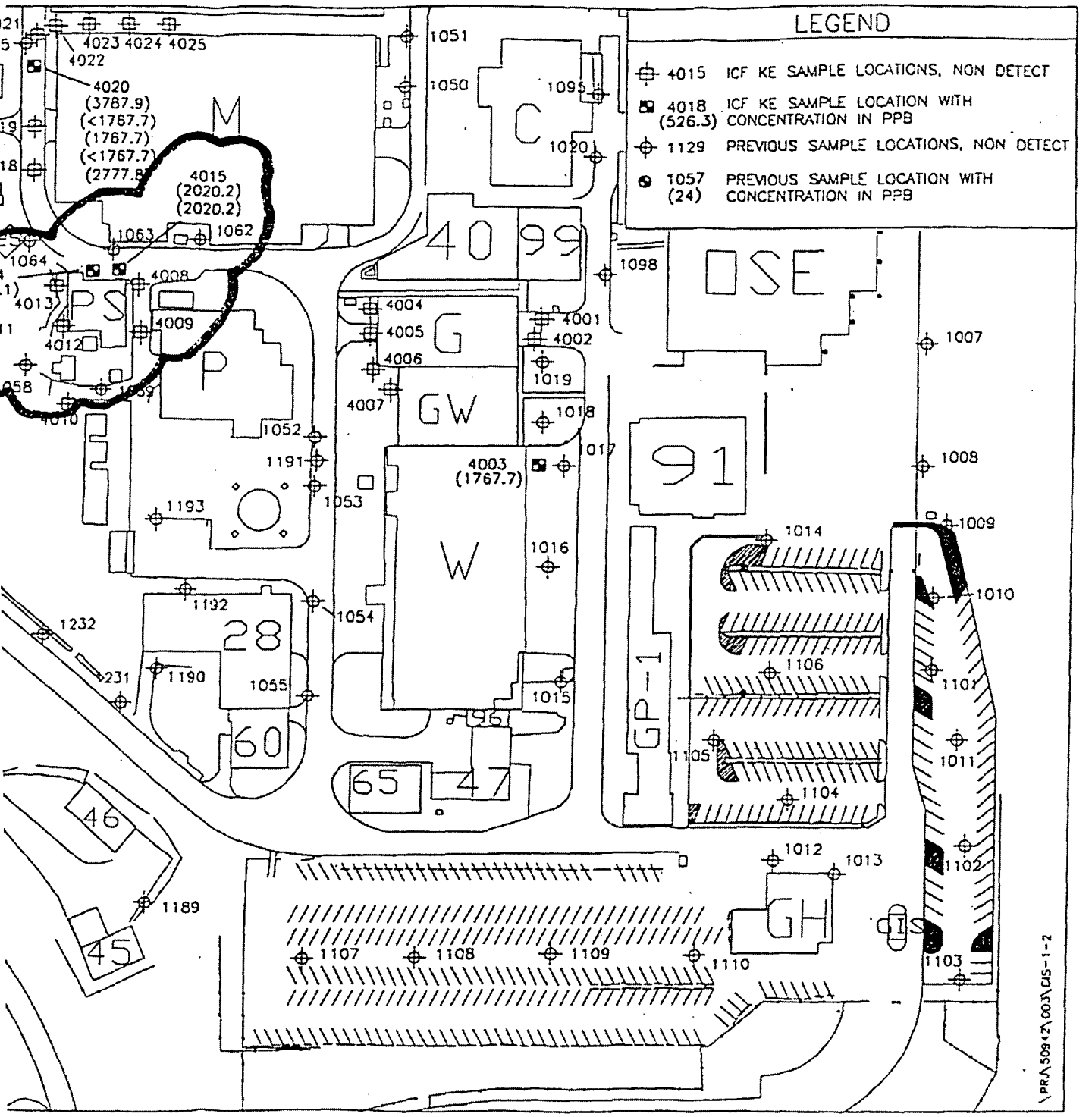

Figure B.11. Cis-1,2-DCE Results, Main Hill East

Attachment 3

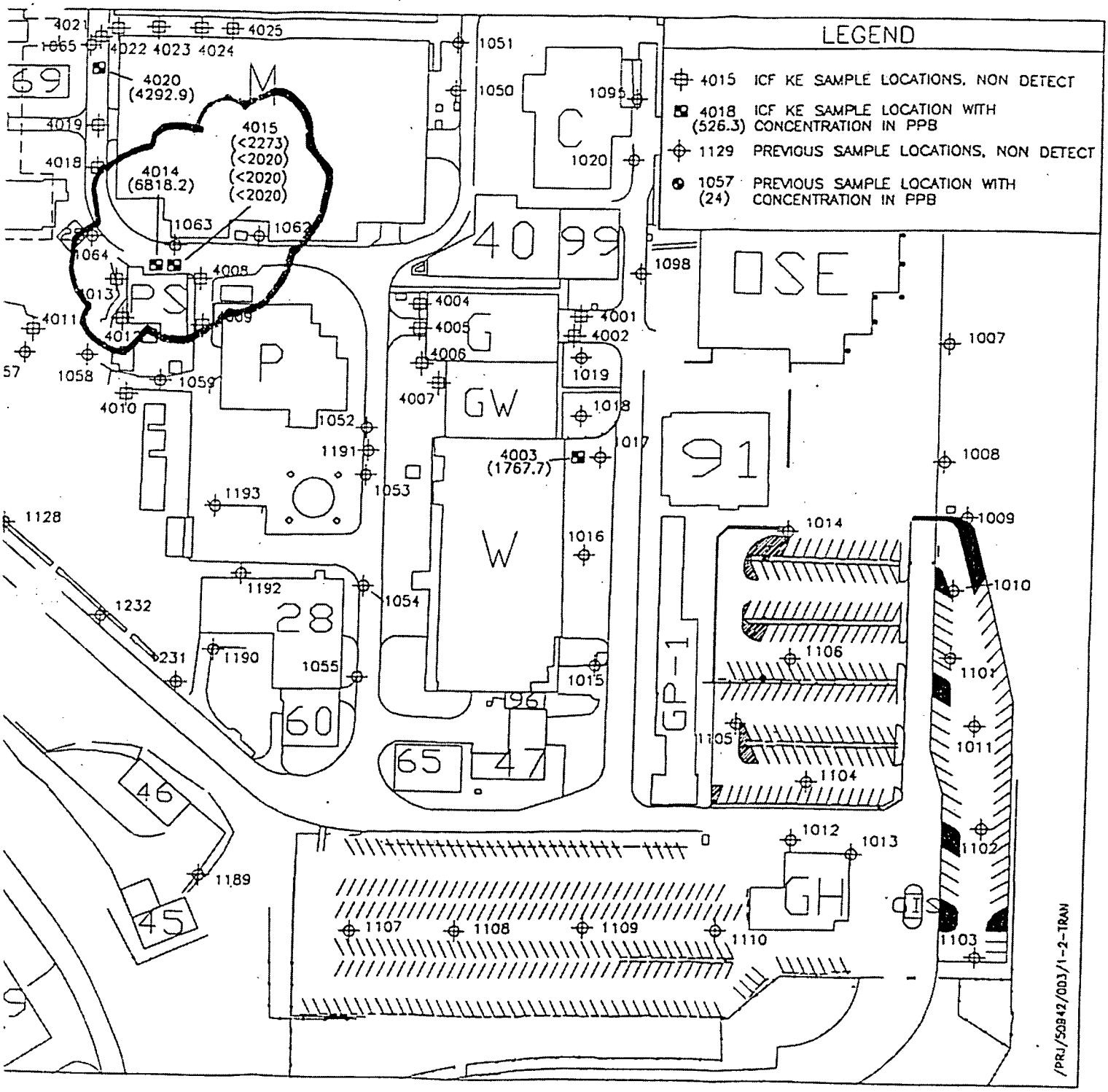

Figure 8.13. Trans-1,2-DCE Results, Main Hill East

Attachment 3.

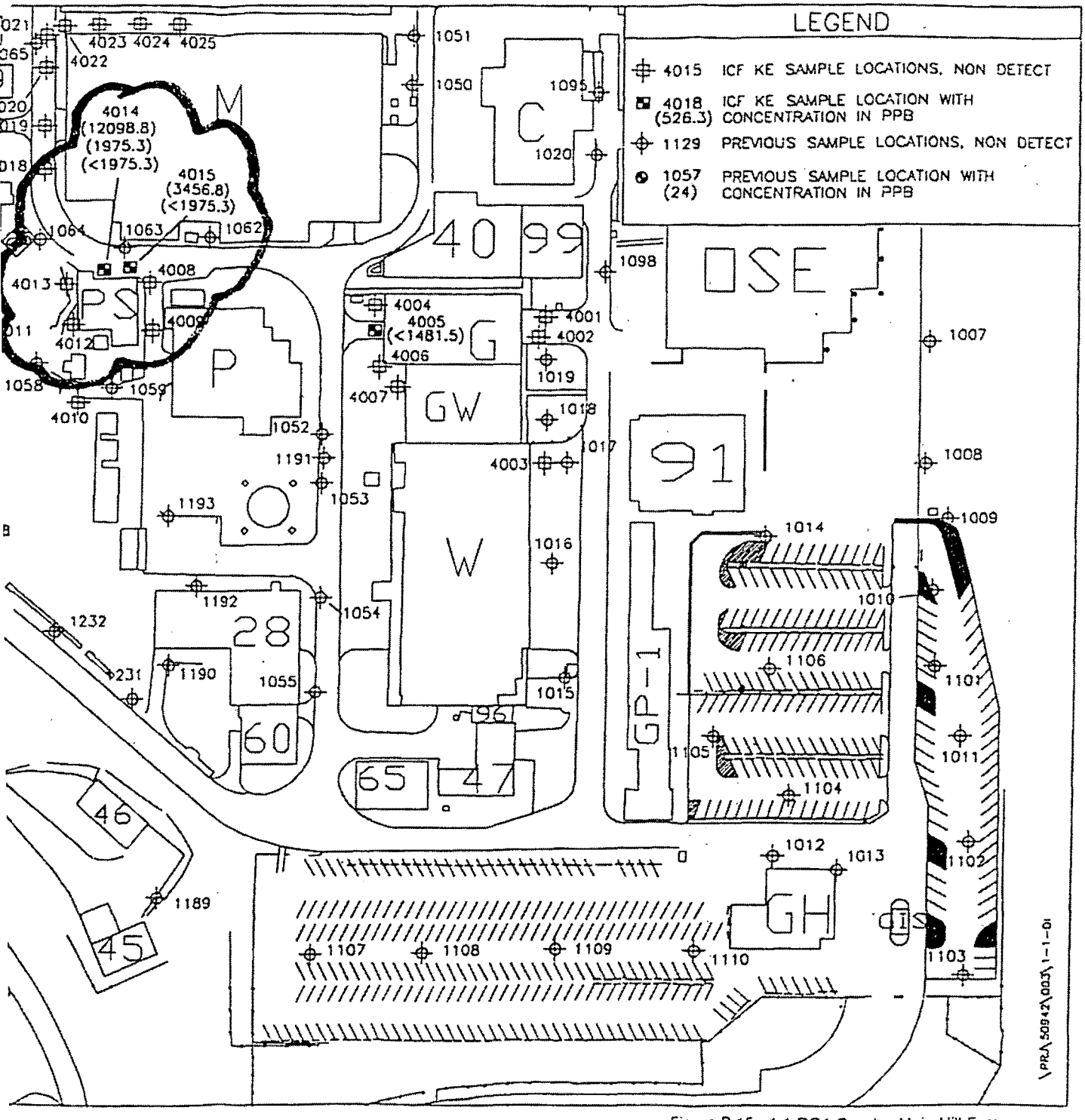

Figure B.15. 1,1-DCA Results, Main Hill East

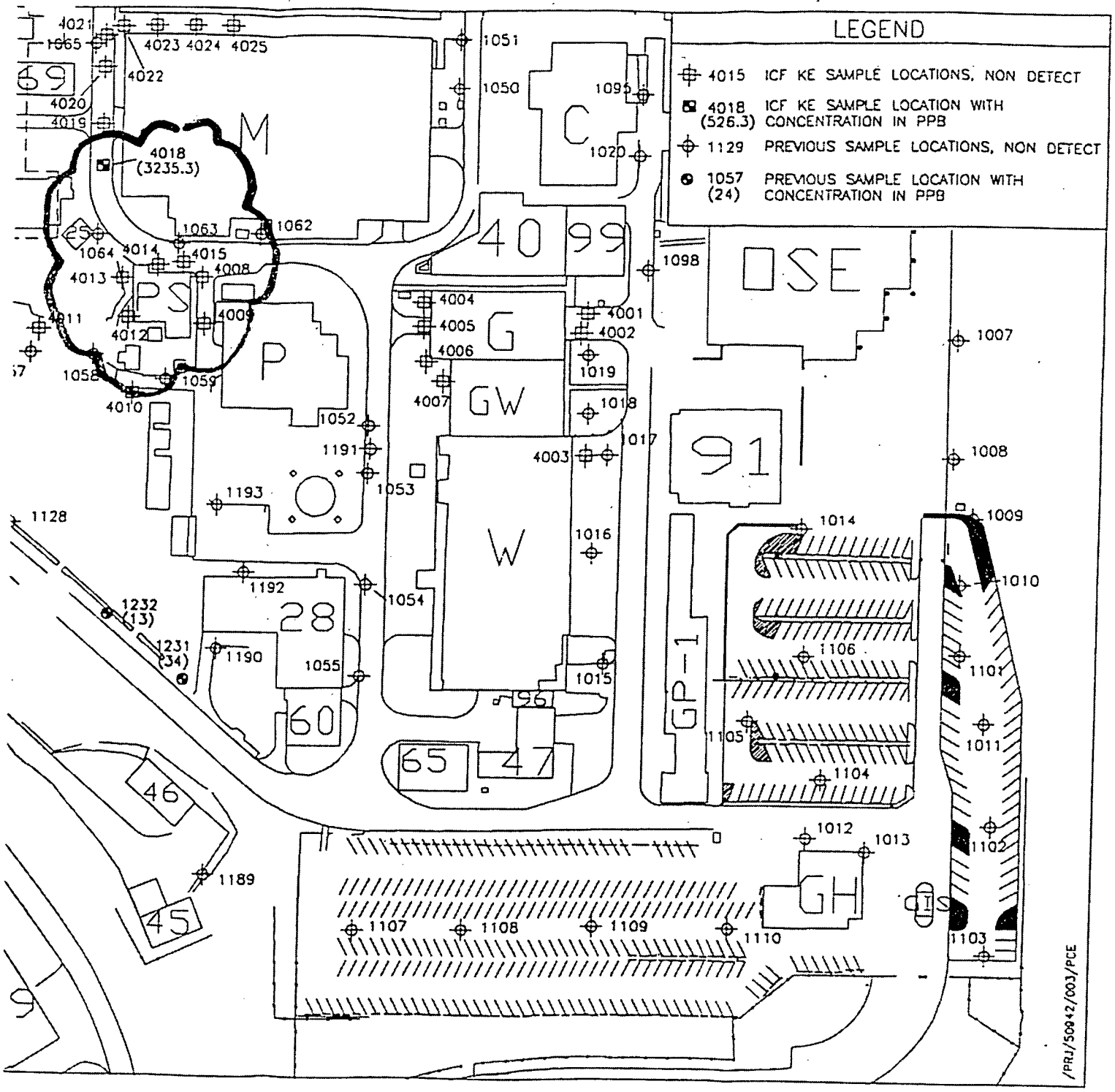

Figure B.17. PCE Results, Main Hill East

Attachment 3.

Page

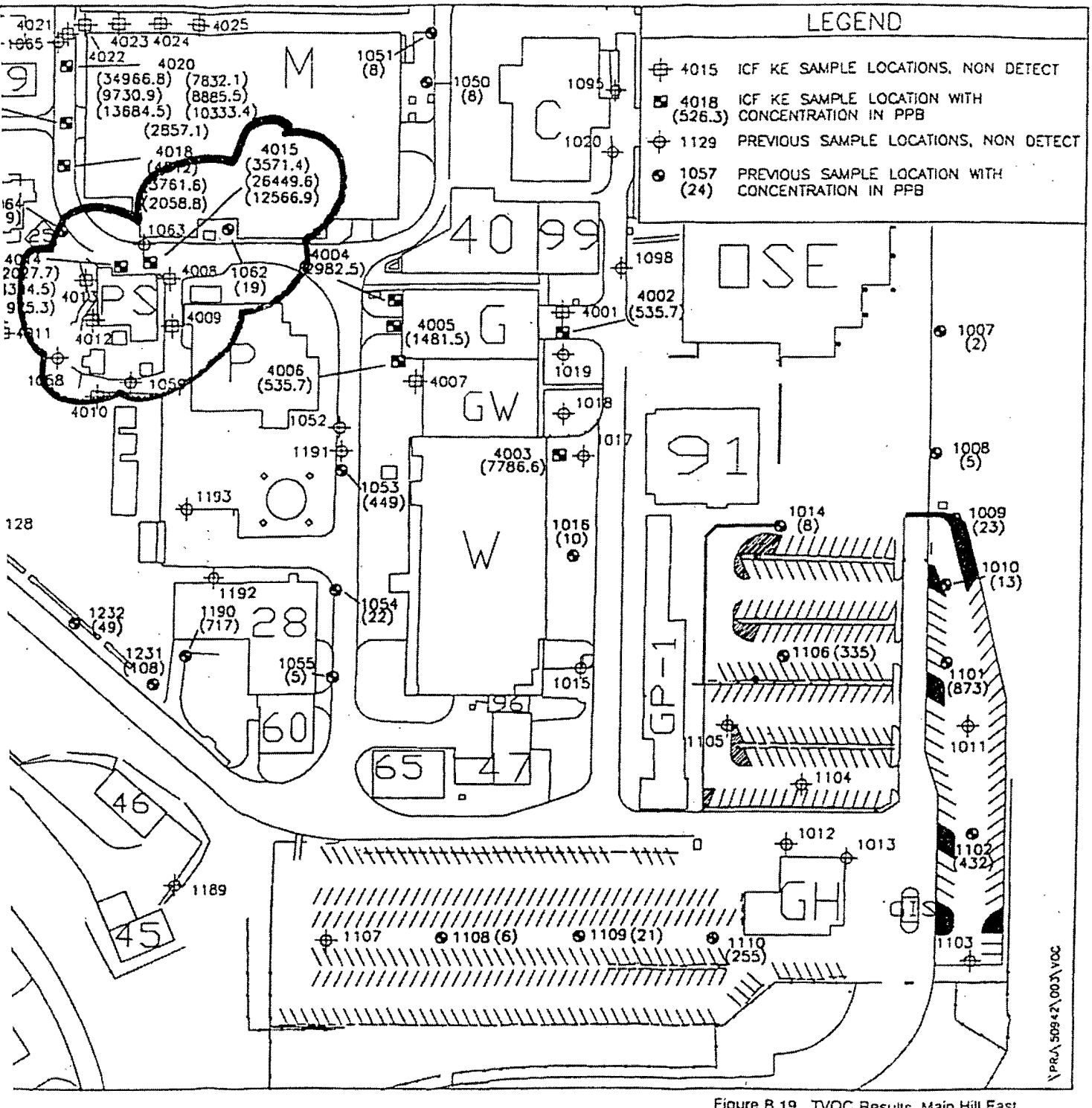

Figure B.19. TVOC Results, Main Hill East

Attachment 3:

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COMPARISON OF ACTUAL SOIL GAS VALUES WITH CALCULATED ACCEPTABLE SOIL GAS VALUES

SCREENING POTENTIAL RELEASE SITES BASED ON SOIL GAS READINGS

Soil gas readings can be utilized in the PRS screening process to identify potential release sites that may present a potential soil contamination problem for volatile organics. The soil gas survey that was conducted at Mound as part of the "Reconnaissance Sampling Report--Soil Gas Survey and Geophysical Investigations, Mound Plant Main Hill and SM/PP Hill" investigated 8 volatile compounds. The concentrations of these compounds in the in the vapor phase within the pore spaces of the soil can be correlated to the actual soil contaminant concentrations by utilizing a method developed by ICF Kaiser Engineers. This technique has been used with US EPA Region IX approval at a large Superfund site contaminated with many of the same chemicals found at relatively low levels in soils at the Mound Plant.

The soil concentration can be estimated from the soil gas values by the following equation:

$$Ct = (Cg/Pb)*[[Pb * Kd / H] + [pw / H] + [pt - pw]]$$

where

Cg	concentration of volatile chemical concentrations as soil vapor in ng/ml
Pb	Bulk density of the soil in g/ml
Kd	soil/water partition coefficient in ml/g
H	Dimensionless Henry's Law Constant
pw	water filled porosity
pt	total porosity
Ct	target soil concentration in ng/g or ug/kg (ppb)

The technique that Mound Plant will use for screening a PRS is to compare the soil gas values obtained at a PRS with soil gas concentrations that are known to be below any regulatory or health based level of concern. The risk based guideline values for the Mound Plant (DOE, December 1995) soils are based upon 10^{-6} risk levels or a hazard index of 1. These values correspond to direct soil exposure to persons who's activities place them at the highest risk, in particular inhalation and ingestion by a Mound Plant construction worker.

Another potential exposure path must be considered, however. The potential for some of the organic contaminants to leach into ground water must be considered in developing protective soil screening levels. A "Mound Plant Soil Screening Level" paper explains the calculation of soil screening levels. For all of the chemicals that the soil gas survey identified, the calculated soil screening level soil concentrations are below the standard guideline values, therefore they are more conservative and are appropriate to be used as the basis for the soil gas calculations.

By re-arranging the equation, and using either the soil guideline values or the soil screening levels as the target soil concentration, a soil gas concentration can be calculated; this calculated soil gas concentration can be compared to the actual observed soil gas values:

$$Cg = (Pb*Ct)/[[Pb*Kd/H] + [pw/H] + [pt-pw]]$$

The values of the soil specific and chemical parameters for this equation are summarized as follows:

Pb	1.6	Bulk density of the soil in g/ml
pw	0.15	water filled porosity
pt	0.43	total porosity
foc	0.02	fraction organic material in soil (used in developing the SSL values)

Typical chemicals that are detected with soil gas sampling are:					
NAME	H	Kd	Calculated Acceptable	Calculated Acceptable	Calculated Acceptable
			Soil Screening Level Value	Soil Gas Reading	Soil Gas Reading
		ml/g	mg/kg (ppm)	ng/ml	ppb
Toluene	2.52E-01	3.42	22.06	1.56E+03	414600
1,1 Dicholorethane (DCA)	2.36E-01	0.7	5.70	1.61E+03	398000
Trichloroethene (TCE)	4.35E-01	2.24	0.07	1.26E+01	2400
111 Trichloroethane (TCA)	7.63E-01	2.2	3.01	9.46E+02	173400
Trans-1,2 Dichloroethene (DCE)	2.29E-01	1	0.70	1.41E+02	35700
cis-1,2 Dichloroethene (DCE)	1.85E-01	2.78	0.31	1.97E+01	5000
Freon 11	NA	NA			
Freon 113	NA	NA			
Tetrachloroethene (PCE)	7.09E-01	2.78	0.09	2.13E+01	3100

na not available

IF THE SOIL GAS READING IS BELOW THE VALUES IN THE CALCULATED SOIL GAS READING COLUMN (SHADED), THEN THERE IS NO THREAT TO GROUNDWATER FROM THIS PRS.

The soil screening level values are calculated using the Soil Screening Methodology. The Potential Release Site is assumed to be more than 100 meters from a potential drinking water source with an aquifer thickness of 15 meters and a source size of 10 meters. The hydraulic gradient is assumed to be 0.01 which is conservative for most of the Mound Plant PRSs. In special instances where the PRS lies less than 100 meters from a potential drinking water source, or the hydraulic gradient is much less than 0.01, new SSL values and new acceptable soil gas values will be calculated for that particular PRS.

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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

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Map Location[a]	Coordinates South	Coordinates West	MRC ID No.	Mo-Yr	Depth (inch)	Pu-238 (pCi/g)	Thorium[b] (pCi/g)	Tritium (pCi/mL)	Co-60 (pCi/g)	Cs-137 (pCi/g)	Ra-226 (pCi/g)	Am-241 (pCi/g)
S0161	1775	2795	3093	10-83	0	1.19	b					
S0162	1775	2845	6206	08-84	0	0.62	b					
S0163	1775	2870	6207	08-84	0	0.34	b					
S0164	1505	3175	3096	10-83	0	0.25	b					
S0165	1750	3300	6211	08-84	0	0.22[c]	b					
S0166	1750	3350	4000	10-83	0	34.50	b					
S0167	1775	3225	6212	08-84	0	0.81	b					
S0168	1775	3275	3099	10-83	0	1.76	b	12.73				
S0169	1790	3010	8424	11-84	0	0.05	b					
S0170	1790	3025	3097	10-83	0	0.41	b					
S0171	1790	3200	3098	10-83	0	1.87	b					
S0172	1285	3555	4081	10-83	0	0.17	b	1.65				
S0173	1315	3465	3050	10-83	0	0.17[c]	b					
C0254	1325	3630	8415	11-84	36	0.22	b					
S0175	1375	3580	9845	06-85	0	NR	NR		82	10	0.8	LDL
S0176	1375	3590	3051	10-83	0	2.82	b					
S0177	1385	3510	3055	10-83	0	1.17	b					
S0178	1410	3465	6187	08-84	0	0.55	b					
S0179	1410	3555	6189	08-84	0	0.48	b					

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Map Location[a]	Coordinates South	Coordinates West	MRC ID No.	Mo-Yr	Depth (inch)	Pu-238 (pCi/g)	Thorium[b] (pCi/g)	Tritium (pCi/mL)	Co-60 (pCi/g)	Cs-137 (pCi/g)	Ra-226 (pCi/g)	Am-241 (pCi/g)
S0142	1500	2695	6181	08-84	0	0.43	b					
S0143	1200	3050	3049	10-83	0	0.46	b	1.34				
S0144	1225	3375	3045	10-83	0	0.03	b	6.33				
S0145	1250	3175	6182	08-84	0	0.02	b					
S0146	1300	3225	6183	08-84	0	0.64	b					
S0147	1350	3175	3047	10-83	0	0.02	b					
S0148	1350	3325	3046	10-83	0	0.20	b					
S0149	1375	3025	3044	10-83	0	0.15	b					
S0150	1400	3025	3048	10-83	0	0.06[c]	b					
C0252	1445	3015	8400	12-84	36	0.13	b					
S0152	1475	3050	6184	08-84	0	0.20	b					
S0153	1475	3175	6185	08-84	0	0.20	b					
S0154	1495	3325	6186	08-84	0	0.03	b					
S0155	1550	2770	3090	10-83	0	0.54	b					
S0156	1600	2645	3095	10-83	0	0.27[c]	b					
C0253	1670	2715	8396	12-84	36	0.11	b					
S0158	1675	2645	3094	10-83	0	0.73	b					
S0159	1750	2645	6210	08-84	0	0.17	b					
S0160	1775	2620	6209	08-84	0	0.17	b					

Attachment 8

Map Location[a]	Coordinates South	Coordinates West	MRC ID No.	Mo-Yr	Depth (inch)	Pu-238 (pCi/g)	Thorium[b] (pCi/g)	Tritium (pCi/mL)	Co-60 (pCi/g)	Cs-137 (pCi/g)	Ra-226 (pCi/g)	Am-241 (pCi/g)
C0289	2422.7	2081.0	None[d]	07-84	0	NR	0.6					
			None[d]	07-84	12	NR	1.1					
			None[d]	07-84	24	NR	0.5					
			None[d]	07-84	36	NR	0.8					
			None[d]	07-84	48	NR	1.0					
			None[d]	07-84	60	NR	0.8					
C0290	2401.5	2102.1	None[d]	07-84	0	NR	0.7					
			None[d]	07-84	12	NR	0.8					
			None[d]	07-84	24	NR	0.8					
			None[d]	07-84	36	NR	0.8					
			None[d]	07-84	48	NR	0.6					
			None[d]	07-84	60	NR	0.9					
			None[d]	07-84	72	NR	0.8					
C0291	2915.3	2490.3	None[d]	07-84	0	NR	0.6					
			None[d]	07-84	12	NR	0.4					
			None[d]	07-84	24	NR	0.5					
			None[d]	07-84	36	NR	0.4					
			None[d]	07-84	48	NR	0.4					
			None[d]	07-84	60	NR	0.3					
			None[d]	07-84	72	NR	0.5					
			None[d]	07-84	84	NR	0.4					
			None[d]	07-84	96	NR	0.7					
			None[d]	07-84	108	NR	0.6					
			None[d]	07-84	120	NR	0.3					
			None[d]	07-84	132	NR	0.3					
S1092	2185	3362	8413	12-84	f	0.31	323.5[g]					

[a]C denotes core location and S denotes surface sample location on Plate 1.
[b]Thorium results of ≤ 2 pCi/g are listed as "b".
[c]Verification sample analyzed for QA/QC.
[d]No MRC ID assigned because *in situ* gamma spectrometry was performed for thorium-232.
[e]Gamma results could not be confirmed using the gamma spectroscopy printout given in this appendix.
[f]The depth for this sample was given as "SS". For mapping purposes (Plates 1 and 5), this is assumed to be a surface sample.
[g]Sample results were given isotopically for this sample and included 0.99 pCi/g thorium-228; 321 pCi/g thorium-230; and 1.5 pCi/g thorium-232, for a total of 323.5 pCi/g.

Attachment 3.