

EXHIBIT A
Soil Contamination Maps

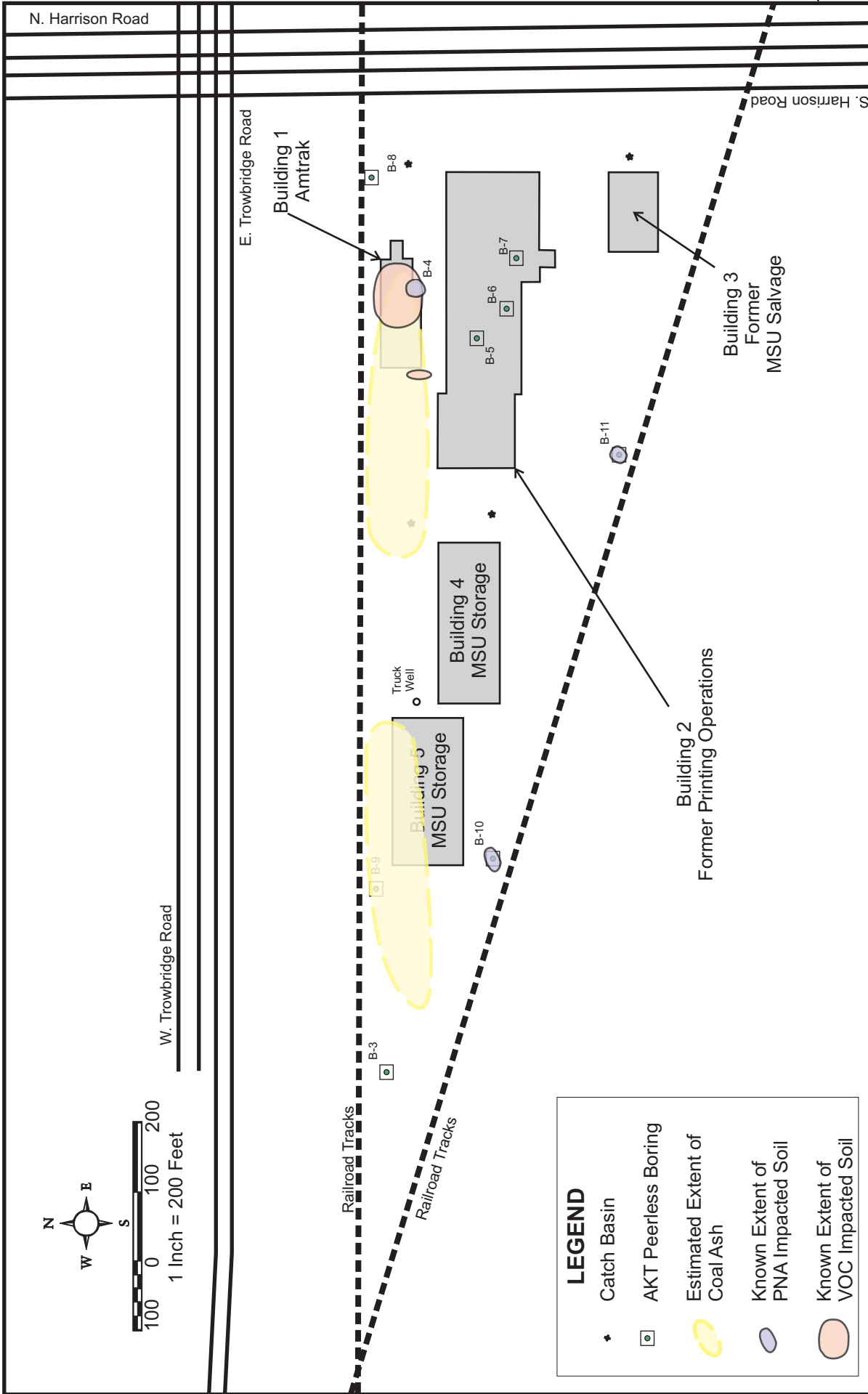


FIGURE 1

Known Extent
of
Impacted Soil

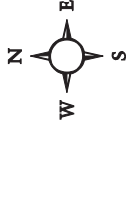
**SOIL AND GROUND-WATER
INVESTIGATION**

Amtrak Triangle
Michigan State University
East Lansing, Michigan



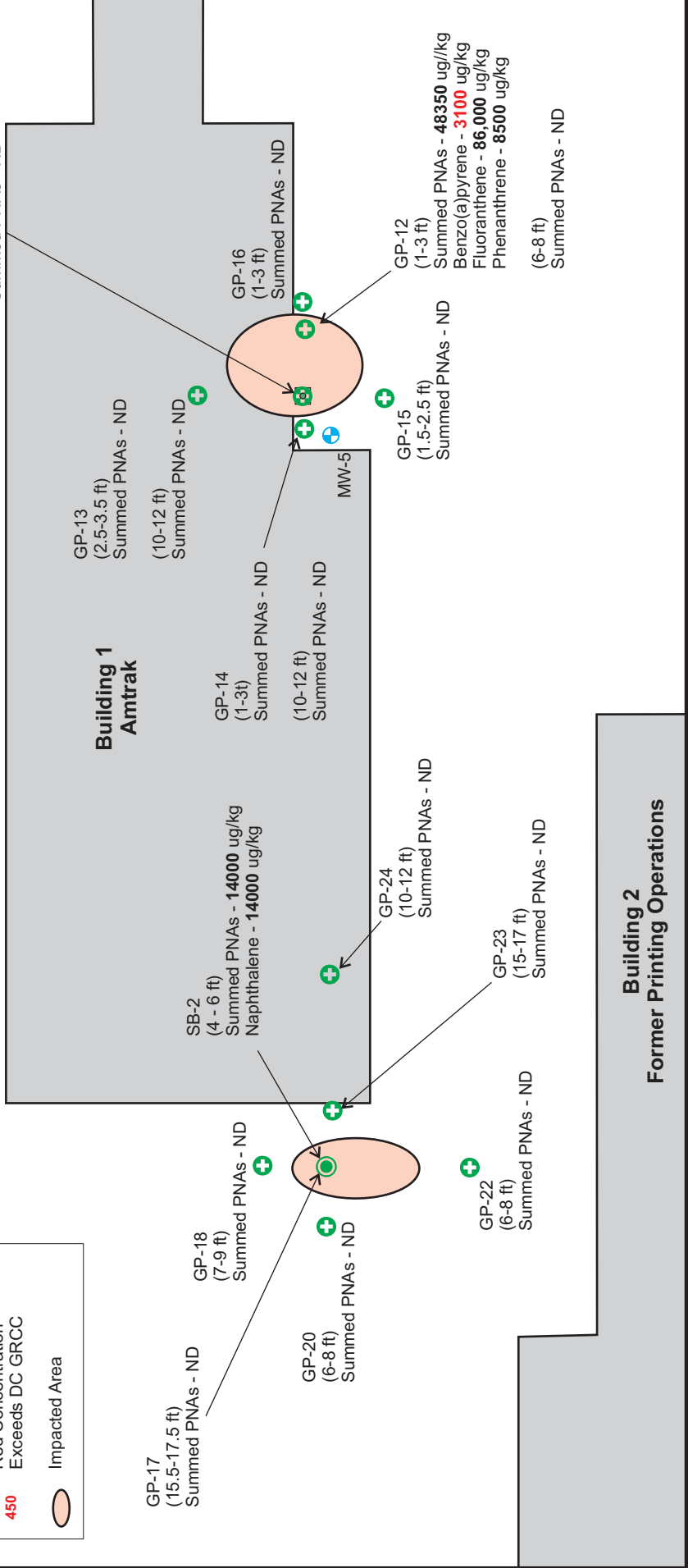
LEGEND

- Catch Basin
- AKT Peerless Boring
- ⊕ Geoprobe Boring
- ⊖ Soil Boring
- ⊕ Monitoring Well
- GP-1 Sample ID and Depth (0-1 ft)
- 450 Bold Concentration Exceeds DW or GSI GRCC
- 450 Red Concentration Exceeds DC GRCC
- Impacted Area



Railroad Tracks

B-4*/GP-11
(0 - 0-5 ft)
Summed PNAs - ???
Acenaphthene - **26000** ug/kg
Anthracene - **65000** ug/kg
Benzo(a)anthracene - **68000** ug/kg
Benzo(a)pyrene - **46000** ug/kg
Benzo(b)fluoranthene - **36,000** ug/kg
Fluorene - **69000** ug/kg
Naphthalene - **92000** ug/kg
Phenanthrene - **227000** ug/kg
(11-13 ft)
Summed PNAs - ND



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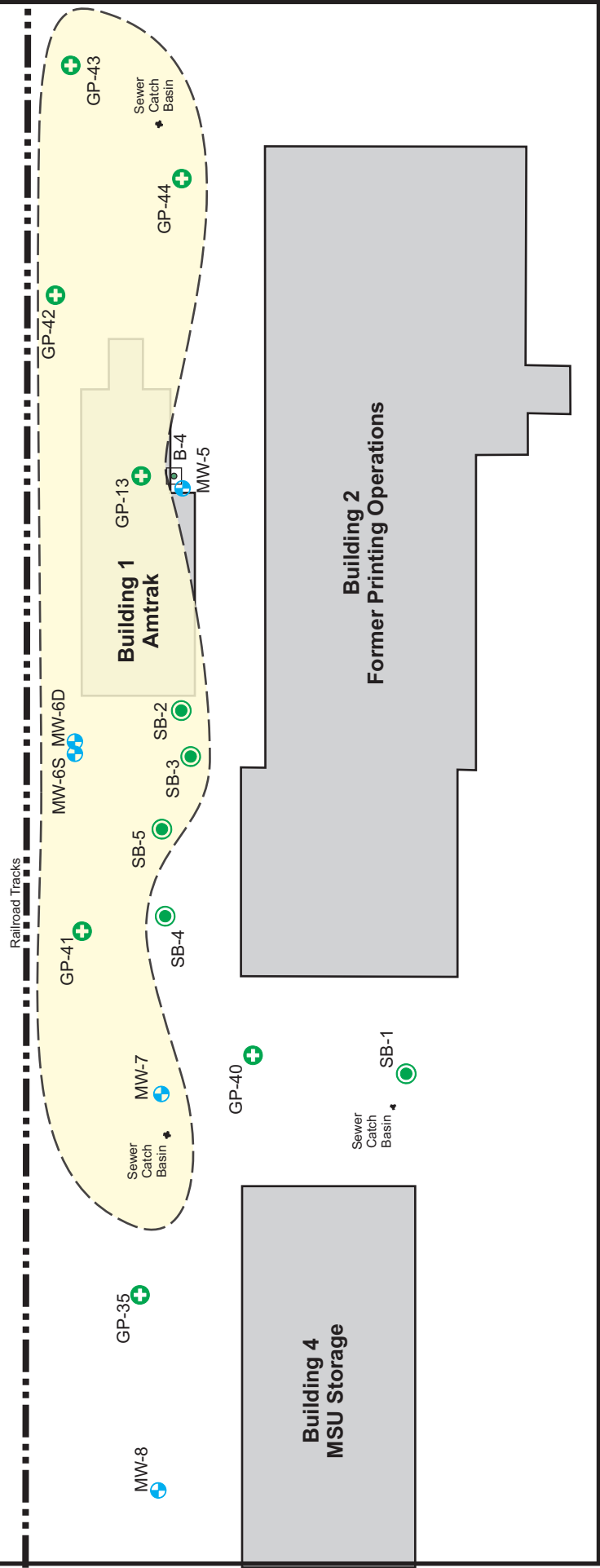
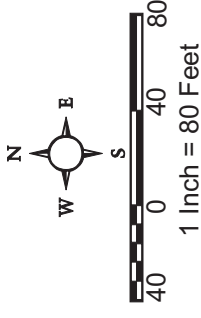


FIGURE

PNA Impacted Soil in Area of Soil Borings B-4 and SB-2

LEGEND

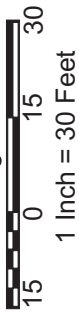
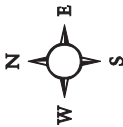
- ◆ Catch Basin
- AKT Peerless Boring
- ⊕ Geoprobe Boring
- Soil Boring
- ⊕ Monitoring Well
- GP-1 Boring ID
- Estimated Extent of Coal Ash



SOIL AND GROUND-WATER INVESTIGATION
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FIGURE
 Coal Ash
 Delineation
 Soil Borings



**Building 5
MSU Storage**

GP-9
(1-2 ft)
Summed PNAs - 59,050 ug/kg
Benzo(a)pyrene - **4700** ug/kg
Fluoranthene - **12,000** ug/kg
Phenanthrene - **6400** ug/kg

(2.5-3.5 ft)
Summed PNAs - ND

GP-10
(1 - 2 ft)
Summed PNAs - ND

GP-31
(1.5 - 2.5 ft)
Summed PNAs - ND

GP-30
(1.5 - 2.5 ft)
Summed PNAs - ND

GP-29
(1.5 - 2.5 ft)
Summed PNAs - ND

GP-7
(1 - 2 ft)
Summed PNAs - ND

GP-8
(1 - 2 ft)
Summed PNAs - ND

B-10*/GP-6
(0 - 0.5 ft)
Summed PNAs - ???
Benzo(a)pyrene - **4900** ug/kg
Fluoranthene - **11,300** ug/kg

(1-2 ft)
Summed PNAs - 154,500 ug/kg
Benzo(a)pyrene - **12000** ug/kg
Dibenzo(ah)anthracene - **2000** ug/kg
Fluoranthene - **31,000** ug/kg
Phenanthrene - **18000** ug/kg

Railroad Tracks

LEGEND

- Catch Basin
- ☐ AKT Peerless Boring
- ⊕ Geoprobe Boring
- ⊙ Soil Boring
- ⊕ Monitoring Well
- Sample ID and Depth
- 450 Bold Concentration Exceeds DW or GSI GRCC
- 450 Red Concentration Exceeds DC GRCC
- Impacted Area

* Soil samples collected 8-27-12 except for sample marked with an asterisk - collected in 2010.

SOIL AND GROUND-WATER INVESTIGATION

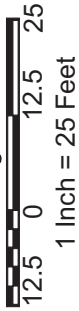
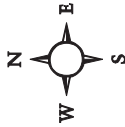
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East Lansing, Michigan



ENVIRONMENTAL SERVICES, INC.

FIGURE

Impacted Soil in Area of AKT Soil Boring B-10



SB-2 (4 - 6 ft)
 Summed VOCs - **490690** ug/kg
 n-Butylbenzene - **23000** ug/kg
 sec-Butylbenzene - **5300** ug/kg
 Ethylbenzene - **14000** ug/kg
 Isopropylbenzene - **6000** ug/kg
 Naphthalene - **14000** ug/kg
 n-Propylbenzene - **35000** ug/kg
 1,2,3-Trimethylbenzene - **47000** ug/kg
 1,2,4-Trimethylbenzene - **220000** ug/kg
 1,3,5-Trimethylbenzene - **72000** ug/kg
 Xylenes - **54000** ug/kg

Railroad Tracks

B-4*/GP-11 (0 - 0-5 ft)
 Summed VOCs - ???
 Tetrachloroethene - **2560** ug/kg

(11-13 ft)
 Summed VOCs - **730** ug/kg
 Tetrachloroethene - **730** ug/kg

Building 1
Amtrak

GP-26 (11-13 ft)
 Summed VOCs - **700** ug/kg
 Tetrachloroethene - **700** ug/kg

GP-25 (15.5-17.5 ft)
 Summed VOCs - **1200** ug/kg
 Tetrachloroethene - **1200** ug/kg

GP-15 (1.5-2.5 ft)
 Summed VOCs - ND

GP-12 (1-3 ft)
 Summed VOCs - ND

GP-14 (1-3 ft)
 Summed VOCs - **400** ug/kg
 Tetrachloroethene - **400** ug/kg

(10-12 ft)
 Summed VOCs - **450** ug/kg
 Tetrachloroethene - **450** ug/kg

GP-13 (2.5-3.5 ft)
 Summed VOCs - ND

(10-12 ft)
 Summed VOCs - **170** ug/kg
 Tetrachloroethene - **170** ug/kg

GP-17 (15.5-17.5 ft)
 Summed VOCs - ND

GP-27 (1-3 ft)
 Summed VOCs - ND
 Tetrachloroethene - **1100** ug/kg

GP-14 (1-3 ft)
 Summed VOCs - **400** ug/kg
 Tetrachloroethene - **400** ug/kg

Building 2
Former Printing Operations

GP-18 (7-9 ft)
 Summed VOCs - ND

GP-20 (6-8 ft)
 Summed VOCs - ND

GP-23 (15-17 ft)
 Summed VOCs - ND

GP-22 (6-8 ft)
 Summed VOCs - ND

LEGEND

- ★ Catch Basin
- ☐ AKT Peerless Boring
- ⊕ Geoprobe Boring
- ⊕ Soil Boring
- ⊕ Monitoring Well
- Sample ID and Depth
- 450** Bold Concentration Exceeds DW or GSI GRCC
- 450** Red Concentration Exceeds DC GRCC
- Impacted Area

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FIGURE

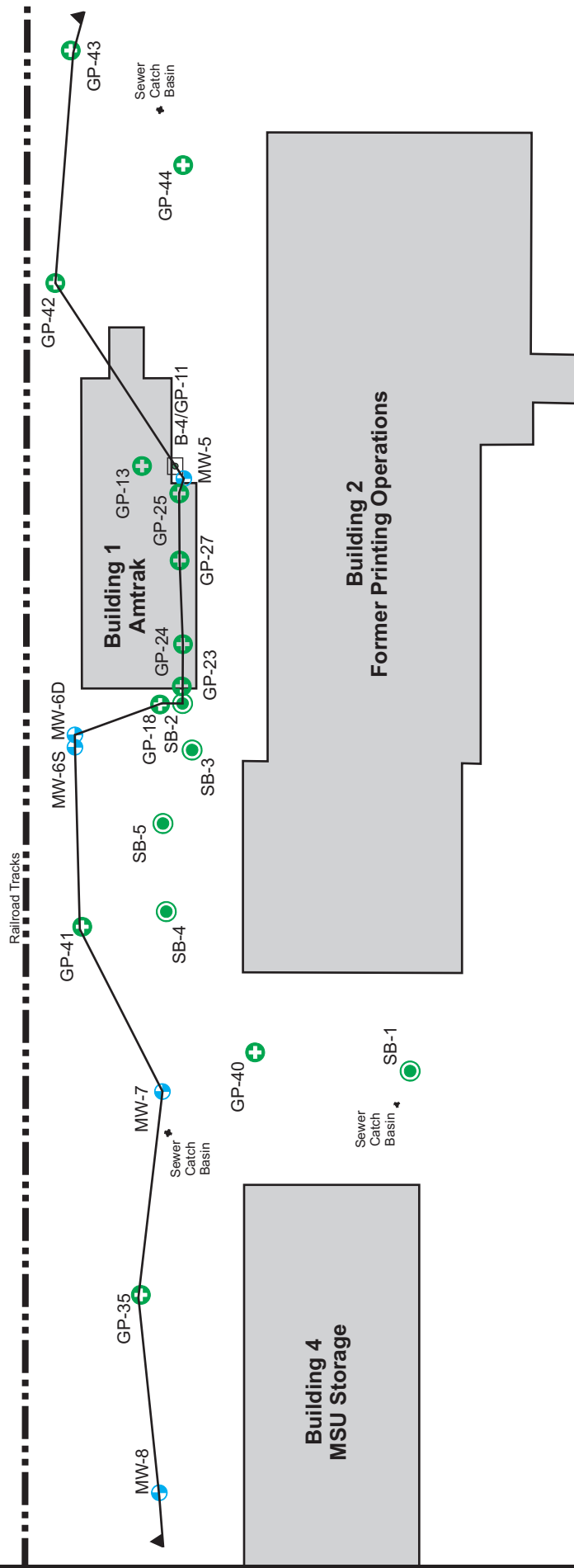
VOC Impacted Soil in Area of AKT Soil Boring B-4

LEGEND

- ◆ Catch Basin
- AKT Peerless Boring
- ⊕ Geoprobe Boring
- Soil Boring
- ⊕ Monitoring Well
- ↗ Cross Section Line



Railroad Tracks



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FIGURE

Location of Cross Sections

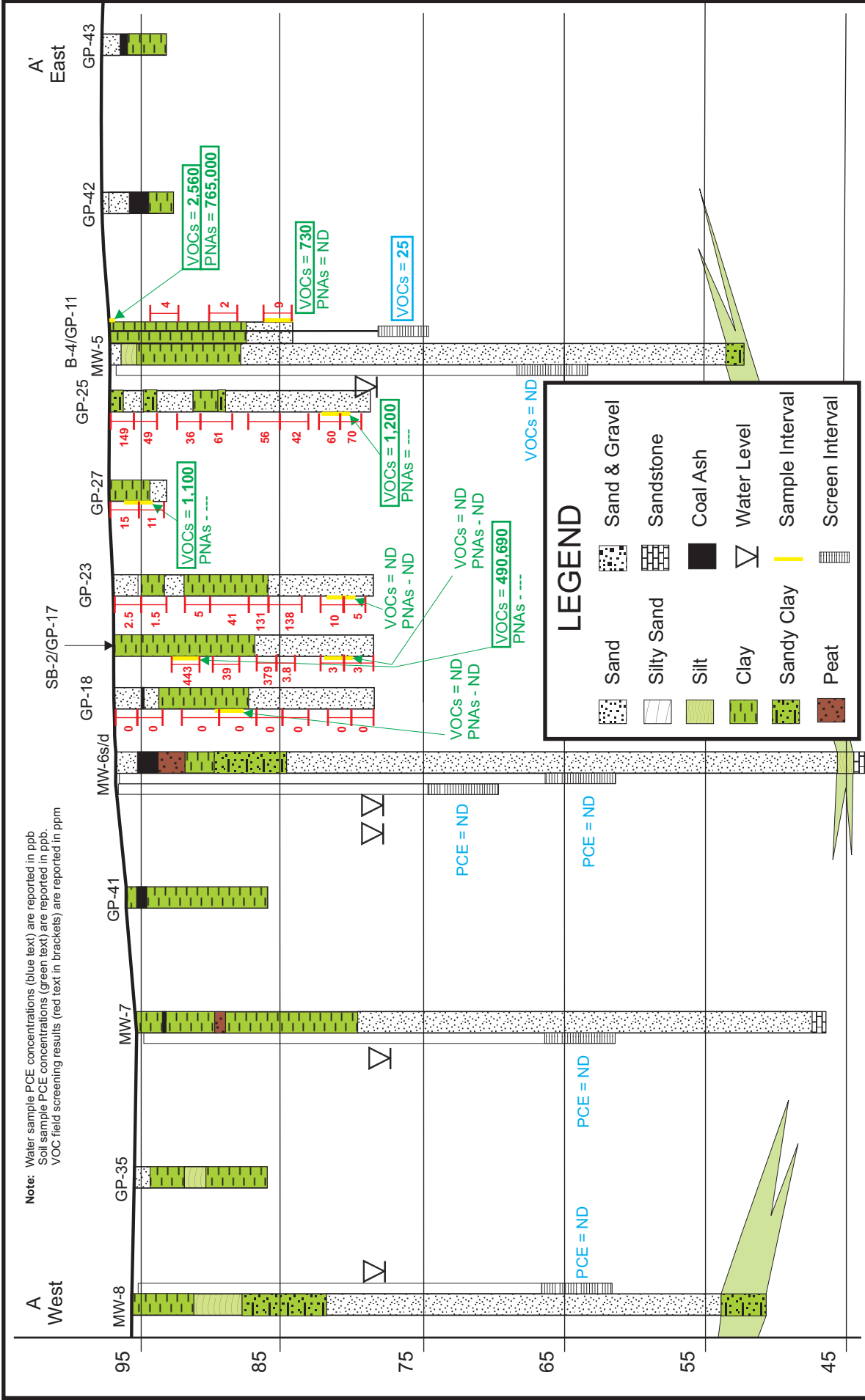


FIGURE
 Geologic Cross-Section
 A - A'

SOIL AND GROUND-WATER INVESTIGATION
 Amtrak Triangle
 Michigan State University
 East Lansing, Michigan

