REPORT ON
RCRA FACILITY INVESTIGATION
INVESTIGATION DATA REPORT NO. 1

DELPHI CORPORATION
DELPHI ENERGY & CHASSIS SYSTEMS
PLANT 400
1300 NORTH DORT HIGHWAY
FLINT, MICHIGAN

US EPA ID # mid 005 356 647
VOLUME 1 OF 2

by:

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Detroit, Michigan

for:

Delphi Corporation
Troy, Michigan

File No.: 49017-017
28 March 2003

UNDERGROUND
ENGINEERING &
ENVIRONMENTAL
SOLUTIONS

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MEMORANDUM

28 March 2003
File No. 49017-017

TO: U. S. Environmental Protection Agency
Patricia J. Polston

C: Tim J. Renner, Delphi Corporation
Kim Cizerle, Environ International, Inc.
Kevin Holdwick, Michigan Department of Environmental Quality

FROM: Haley & Aldrich, Inc.
Lloyd S. Ross

SUBJECT: Field Event #1 Data Evaluation Figures and Boring Log Update
Voluntary RFI Investigation
Delphi Flint East, Plant 400, Dort Highway
Flint, Michigan

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Please find enclosed summary tables and figures that provide the results of the risk-based screening evaluation of data collected during Field Event #1 of the voluntary RCRA Facility Investigation (RFI) for the Delphi Flint-East Plant 400 located in Flint, Michigan. Also included (Appendix D) are log reports of borings and monitoring wells installed as part of the RFI that were not included in the December 2002 Current Conditions Report. Soil and groundwater risk-based screening results are presented in summary tables in Appendix E.

The enclosed figures (Appendix A through C) represent one aspect of the data evaluation conducted. The figures present the risk-based screening results used to determine whether the nature and extent of the hazardous constituents at Areas of Investigation (AOIs) have been defined to fulfill the data requirements of the Environmental Indicator (EI) determination. We will use the results of the risk-based screening evaluation, along with field observations and professional judgment, to plan the RFI Field Event #2 field investigation activities.

Evaluation Of RFI Field Event #1 Data

The characterization data collected during Field Event #1 were evaluated to identify environmental conditions that may warrant further investigation. Approximately 231 soil, 4 free product, 57 groundwater grab samples (collected from open bore holes), and 59 monitoring well groundwater samples were collected during Field Event #1 (not including

field replicates and other quality control samples). In addition, the site environmental database used in this screening includes approximately 281 soil, 48 borehole groundwater, and 108 monitoring well groundwater samples from pre-RFI investigation, and 32 samples collected and analyzed using a mobile laboratory deployed on site. This combined data set includes over 37,500 analytical measurements. Approximately 7,282 of these results were measured above detection limits.

To efficiently evaluate the large amount of data, generic human-health risk-based screening levels were used to identify locations where constituents are present at concentrations that may warrant additional investigation.

The screening criteria used for the evaluation of the Field Event #1 data are risk-based screening levels/methodologies developed under the Michigan Part 201 Generic Cleanup Criteria. A concentration higher than a screening level does not mean that a significant risk exists. Rather, the concentration is identified for further review relative to:

- Concentrations of the constituent at other locations and depths,
- Distribution of the constituent in other environmental media,
- Background levels,
- Field observations, and
- Previously identified or additional areas of interest (based on operational history in the vicinity of the sample location).

The results of this review provide one basis for developing plans for additional characterization activities (i.e. Field Event #2). However, they do not provide an assessment of the potential significance of risk associated with the presence of constituents at an AOI. Such an assessment will be performed at the completion of RFI field investigations.

The analytical data collected during Field Event #1 were validated in accordance with the Quality Assurance Project Plan (March 2003). Replicate or field duplicate analyses were screened individually and are presented on the figures.

Soil

To determine whether additional soil sampling should be considered, Field Event #1 soil results were screened against the following Michigan Part 201 Industrial/Commercial Generic Cleanup Criteria (GCC), as published in December 2002:

- Volatilization to indoor air from soil
- Infinite source volatilization to ambient air
- Soil particulate inhalation
- Direct contact (Industrial/commercial II)

This initial screening evaluation did not include a background analysis for naturally occurring inorganic constituents. A complete background analysis will be conducted as part of Field Event #2.

Based on the screening criteria listed above, a soil constituent list was generated, including those constituents that were detected in one or more samples above the most conservative residential criteria for the above-listed routes of exposure. The constituents that are presented in the figures represent this list.

Based on the current conceptual model for the site, these screening criteria are considered to be conservative. The site has been used for industrial purposes for approximately 80 years and the site use is expected to remain commercial/industrial in the future. Future residential use of the property is not considered a reasonably likely scenario.

Groundwater

To assess whether additional groundwater sampling should be conducted, Field Event #1 groundwater results for the site were screened against the following Michigan Part 201 Generic Cleanup Criteria (GCC), as published in December 2002:

- Industrial/commercial drinking water
- Groundwater contact
- Industrial volatilization to indoor air
- Groundwater surface water interface criteria (as applicable)

Based on the screening criteria listed above, a constituent list was generated, including those constituents that were detected in one or more samples above the most conservative residential drinking water and volatilization to indoor air criteria. The constituents that are presented in the figures represent this list.

Based on the current conceptual model for the site, these screening criteria are considered to be conservative. Based on the conceptual model for groundwater use at and adjacent to the site, the drinking water criteria are considered to be conservative because there is no current on-site use of groundwater. Shallow groundwater present in the overburden is not reasonably likely to be used as a drinking water source. Exposure to this shallow groundwater is more likely to occur during short-term excavation activities. Direct contact criteria for groundwater that are published by the MDEQ for this scenario are considered relevant to shallow groundwater and are readily available for screening this data set.

Screening Results

Analytical data for constituent concentrations above any of the above-identified screening criteria for soil or groundwater are so indicated on the enclosed figures. Table 1 summarizes

the Field Event #1 activities, overall screening results, and anticipated Field Event #2 activities (if any) at each AOI.

The enclosed soil figures (Appendix A and Appendix C) represent the following:

1. Figures 1A through 12A: As described above, the soil constituent list includes all constituents that were detected in one or more samples above the most conservative residential criteria. As such, constituents that may not have been detected at/above this level within a particular AOI will still be presented in the figures. On-site analytical data for constituent concentrations above the screening criteria described above for industrial land use are presented in red. Off-site analytical data that exceeded the soil screening criteria described above for residential land use are presented in cyan. Additional investigation may be required where results are greater than the identified screening criteria.

2. Figures 1C though 9C: Analytical data from soil samples located directly above the water table for constituents that exceed the Michigan DEQ Part 201 Residential Drinking Water Protection (soil leaching to groundwater) screening criteria are shown on Figures 1C through 9C. This screening is based on a conservative assumption that groundwater is a drinking water source. The soil data that exceed the screening criteria may indicate that further evaluation of the soil migration to groundwater pathway is necessary in the AOI.

   Groundwater potentiometric surface contours are superimposed on these figures. Also shown on these figures are the groundwater monitoring and screening results (where available). Concentrations exceeding groundwater screening criteria are highlighted in red.

The enclosed groundwater figures (Appendix B) represent the following:

1. Figures 1B through 6B: As described above, the groundwater constituent list includes all constituents that were detected in one or more samples above the most conservative residential criteria. On site analytical data for constituent concentrations that exceed the screening criteria described above for industrial use are presented in red. Analytical data for constituent concentrations that exceed the screening criteria described above for residential use and groundwater surface water interface (GSI) are presented in cyan and green, respectively. Although there is no current groundwater use at the site, the data that exceed these screening criteria may indicate that further evaluation of groundwater is necessary in the AOI.

As identified above, the screening described herein is a preliminary evaluation, designed to identify, in conjunction with field observations and professional judgment, whether further investigation is warranted at an AOI. If you have any questions or require additional information, please contact us.

LIST OF ATTACHMENTS:

Table I. Summary of AOI Activities
Table II. Summary of Horizontal Hydraulic Conductivity Data
Figure 1. Geologic Cross-Sections
Figure 2. Aquitard Between First and Second Saturated Zones
Figure 3. Potentiometric Surface Contours – December 2002
Figure 4. Crane Bay Fee Product Delineation Screening

Appendix A. (Volume 1)
Figure 1A. Soil Analytical Results for AOI-8 Former Hard Chrome Plating Line and AOI –9 Barrel, Rack, and U1 Plating Lines.
Figure 2A. Soil Analytical Results for AOI-11 Executive Garage.
Figure 3A. Soil Analytical Results for AOI-13 Gridley Area and AOI-31 Former Diesel UST (#4052)
Figure 4A. Soil Analytical Results for AOI-14 Phosphater and AOI-16 Udylite Plating
Figure 5A. Soil Analytical Results for AOI-18 Former Zinc Dichromate Plating Lines and AOI-21 Used Oil UST Tanks #4024 & #4025.
Figure 6A. Soil Analytical Results for AOI-23 Automatic Screw Machine Basement, AOI-24 Former Stoddard Tanks, and AOI-37 Former Used Viscor UST.
Figure 7A. Soil Analytical Results for AOI-25 Former Fire Training Area.
Figure 8A. Soil Analytical Results for AOI-26 Container Storage Area.
Figure 9A. Soil Analytical Results for AOI-27 Pump House/Lift Station and Eastern Process Sewer.
Figure 10A. Soil Analytical Results for AOI-45 Compactor
Figure 11A. Soil Analytical Results for Building 4082 (AOI-49)
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Appendix B. (Volume 1)
Figure 1B. Groundwater Analytical Results for AOI-11 Executive Garage
Figure 2B. Groundwater Analytical Results for AOI-13 Gridley Area
Figure 3B. Groundwater Analytical Results for AOI-26 and AOI-27.
Figure 4B. Groundwater Analytical Results for Building 4082 (AOI-49) and AOI-8 Former Hard Chrome Plating Line.
Figure 5B. Groundwater Analytical Results Davison Road Northwest Property Boundary.
Figure 6B. Groundwater Analytical Results North Dort Highway Northwest Property Boundary.

Appendix C. (Volume 1)
Figure 1C. Soil DWP Screening for AOI-8 Former Hard Chrome Plating Line and AOI –9 Barrel, Rack, and U1 Plating Lines.
Figure 2C. Soil DWP Screening for AOI-11 Executive Garage.

Appendix C (Volume 1) (continued)

Figure 3C. Soil DWP Screening for AOI-14 Phosphater, AOI-16 Udylite Plating, and AOI-13 Gridley Area.
Figure 4C. Soil DWP Screening for AOI-18 Former Zinc Dichromate Plating Lines and AOI-21 Used Oil UST Tanks #4024 & #4025.
Figure 5C. Soil DWP Screening for AOI-23 Automatic Screw Machine Basement, AOI-24 Former Stoddard Tanks, and AOI-37 Former Used Viscor UST.
Figure 6C. Soil DWP Screening for Building 4082.
Figure 7C. Soil DWP Screening for AOI-45 Compactor
Figure 8C. Site Soil DWP Screening.
Figure 9C. Soil DWP Screening for AOI-25 Former Fire Training Area.

Appendix D. (Volume 2)
Boring and Monitoring Well Installation Reports

Appendix E. (Volume 2)
Soil and Groundwater Risk-Based Screening Results

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TABLES

TABLE I
SUMMARY OF RFI ACTIVITIES BY AREA OF INTEREST
FLINT-EAST - PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

AOI Designation	ADDITIONAL RFI ACTIVITIES	Screening Results	Reference Figures	FIELD EVENT #1 INVESTIGATION Field Investigation Activity	Number of Groundwater Samples	Number of Soil Samples	Analytical Testing
NA Facility-wide Groundwater Sampling	During FE#2, additional monitoring wells or piezometers will be installed for supplemental site-wide hydrogeologic data. This information will be to refine the groundwater flow directions and evaluate vertical hydraulic conductivity of aquitard between first and second saturated zone. In addition, Gilkey Creek gauging stations will be established.	Data collected includes horizontal hydraulic conductivity, groundwater potentiometric surface contours, refinement of site hydrogeologic conceptual model. Two previously unidentified AOIs (AOI-49 - Building 4082 and AOI-50 - Crane Bay) were added to the vRFI.	Various	Groundwater Quality Information was collected from selected existing and new monitoring wells.	29	-	TCL, VOCs, TCL SVOCs, TAL Metals, TCL PCBs
AOI-01 Cyanide Lift Station	NFI						
AOI-02 Former Spray Booth	NFI						
AOI-03 Former Plating Operations	NFI						
AOI-04 Former Plating Operations	NFI						
AOI-05 Scrap Metal Collection Area	NFI						
AOI-06 Former Degreaser	NFI						
AOI-07 Former Zinc Die Cast Area	NFI						
AOI-08 Former Hard Chrome Plating Line (Building #4082)	Groundwater investigation in FE#2 to confirm bore hole water results, delineate extent of chromium in groundwater (if applicable), and evaluate potential sources of the chromium (if applicable). Background analysis to be performed in FE#2.	**Soil:** Concentrations less than industrial criteria. **GW:** Concentrations of hexavalent chromium detected above industrial drinking water criteria in one bore hole water sample. Other inorganics were detected in bore hole water samples above industrial drinking water criteria. **DWP:** Some inorganics detected above DWP criteria.	Figures 1A, 4B, 1C.	Installed 2 soil borings in conjunction with 2 monitoring wells installed as part of Facility-wide Groundwater Investigation.	2	4	TAL Metals, hexavalent chromium, cyanide
AOI-09 Barrel, Rack, and U1 Plating Line	Additional soil sampling to evalute chromium species in soil and evaluate potential relationship between AOI-09 soil and AOI-08 groundwater. Background analysis to be performed in FE#2.	**Soil:** Concentrations less than industrial criteria. **GW:** Inorganics detected in bore hole water samples above industrial drinking water criteria. **DWP:** Some inorganics detected above DWP criteria.	Figures 1A, 4B, 1C.	Installed 4 soil borings	1	10	TAL Metals and cyanide
AOI-10 Power Wash Booth	NFI						
AOI-11 Executive Garage Area	Install one additional monitoring well during FE#2. Sample new and existing monitoring wells to determine current groundwater concentrations.	**Soil:** Pre-RFI BTEX concentrations less than industrial criteria. **GW:** Pre-RFI BTEX concentrations greater than industrial drinking water criteria. Groundwater use in area is deed restrictied. **DWP:** Pre-RFI BTEX concentrations greater than DWP criteria.	Figures 2A, 1B, 2C.	Groundwater flow and hydrogeologic interpretation			
AOI-12 Paint Booth and Paint Storage Area	NFI						
AOI-13 Gridley Area	Continue free product analysis and recovery in FE#2.	Continued free product recovery.	Figures 3A, 2B, 3C.	Interim Measures Evaluation 3 Product Samples, Product and Groundwater Measurements	3 (product)		TCL, VOCs, TCL SVOCs, TCL PCBs, TAL Metals, Viscosity, Density
AOI-14 Phosphater	Background analysis to be performed in FE#2.	**Soil:** Concentrations less than industrial criteria. **GW:** No samples needed. **DWP:** Some inorganics detected above DWP criteria.	Figures 4A, NA, 3C.	Installed 3 soil borings	-	6	TAL Metals
AOI-15 Roto-Header Department	NFI						
AOI-16 Udylite Coating	Background analysis to be performed in FE#2.	**Soil:** Concentrations less than industrial criteria. **GW:** No samples needed. **DWP:** Some inorganics detected above DWP criteria.	Figures 4A, NA, 3C.	Installed 3 soil borings	-	9	TCL, VOCs, TCL SVOCs, TAL Metals
AOI-17 Nickel Plating Lines	NFI						

TABLE I
SUMMARY OF RFI ACTIVITIES BY AREA OF INTEREST
FLINT-EAST - PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

AOI Designation	ADDITIONAL RFI ACTIVITIES	Screening Results	Reference Figures	FIELD EVENT #1 INVESTIGATION			
				Field Investigation Activity	Number of Groundwater Samples	Number of Soil Samples	Analytical Testing
AOI-18 Former Zinc Dichromate Plating Lines	Background analysis to be performed in FE#2.	**Soil:** Concentrations less than industrial criteria. **GW:** No samples needed. **DWP:** Some inorganics detected above DWP criteria.	Figures 5A, 5B & 6B, 4C	Installed 3 soil borings	-	9	TAL Metals
AOI-19 Former Zinc Hydroxide Tanks	NFI						
AOI-20 Former Degreaser	NFI						
AOI-21 Used Oil UST Tanks #4032 and #4033	Soil investigations in FE#2 to confirm methylene chloride concentrations. Background analysis to be performed in FE#2.	**Soil:** Concentrations less than industrial criteria. **GW:** No samples needed. **DWP:** Methylene chloride and some inorganics detected above DWP criteria.	Figures 5A, 5B & 6B, 4C.	Installed 4 soil borings	-	12	TCL, VOCs, TCL SVOCs, TCL PCBs, TAL Metals
AOI-22 Chip Collection Area	Installation of Monitoring Wells during FE#2 to sample soil and determine if free product is present.	No Field Event #1 Activity. Monitoring well installation planned during Field Event #2.	NA	Install 2 monitoring wells	-		TCL, VOCs, TCL SVOCs, TCL PCBs, TAL Metals
AOI-23 Automatic Screw Machine Basement	Background analysis to be performed in FE#2.	**Soil:** Concentrations less than industrial criteria. **GW:** No samples needed. **DWP:** Some inorganics detected above DWP criteria.	Figures 6A, NA, 5C.	Installed 3 soil borings	-	9	TCL, VOCs, TCL SVOCs, TCL PCBs, TAL Metals
AOI-24 Former Stoddard Tanks #4024 and #4025	NFI						
AOI-25 Former Fire Training Area	Background analysis to be performed in FE#2.	**Soil:** Concentrations less than industrial criteria. **GW:** No samples needed. **DWP:** Some inorganics detected above DWP criteria.	Figures 7A, NA, 9C.	Installed 5 soil borings	-	15	TCL, VOCs, TCL SVOCs, TCL PCBs, TAL Metals
AOI-26 Container Storage Area	Additional soil and groundwater investigation during FE#2 to confirm pre-RFI data. Background analysis to be performed in FE#2.	**Soil:** Pre-RFI concentrations less than industrial criteria. **GW:** Elevated chromium concentrations from bore hole water. Chlorinated compounds detected in groundwater above drinking water criteria. **DWP:** Pre-RFI concentrations of inorganics and volatile organic compounds detected above DWP criteria.	Figures 8A & 9A, 3B, 8C.	Sampled 15 monitoring wells	15	-	
AOI-27 Pump House/Lift Station and Eastern Process Sewer	Background analysis to be performed in FE#2.	**Soil:** Concentrations less than industrial criteria. **GW:** Volatiles detected in groundwater samples but appears related to AOI-26 or AOI-48. **DWP:** Some inorganics and volatiles detected above DWP criteria. Volatiles appears related to AOI-26 or AOI-48.	Figures 8A & 9A, 3B, 8C.	Installed 10 soil borings	7	12	TCL VOCs, TCL SVOCs, TAL
AOI-28 Molylube Line	NFI						
AOI-29 Former Paint Booth	NFI						
AOI-30 Former Degreaser	NFI						
AOI-31 Former Diesel UST (Tank #4052)	NFI	**Soil:** Concentrations less than industrial critieria. **GW:** No samples needed. **DWP:** Concentrations less than DWP criteria.	Figures 3A, NA, NA.	Installed 1 soil boring	-	3	TCL VOCs, TCL SVOCs
AOI-32 Terminal Post (T-Post) Oil Collection System	NFI						
AOI-33 Former Conformal Coating Operation	NFI						
AOI-34 Former Paint Booth	NFI						
AOI-35 Former Glass Frit	NFI						
AOI-36 Former Paint Booth	NFI						
AOI-37 Sump Collection System (Former Waster Viscor UST)	NFI	**Soil:** Concentrations less than industrial criteria. **GW:** No samples needed. **DWP:** Concentrations less than DWP criteria.	Figures 6A, NA, 5C.	Installed 1 soil boring	-	3	TCL VOCs, TCL SVOCs
AOI-38 Former Degreaser	NFI						

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SUMMARY OF RFI ACTIVITIES BY AREA OF INTEREST
FLINT-EAST - PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

AOI Designation	ADDITIONAL RFI ACTIVITIES	Screening Results	Reference Figures	FIELD EVENT #1 INVESTIGATION			
				Field Investigation Activity	Number of Groundwater Samples	Number of Soil Samples	Analytical Testing
AOI-39 Former Degreaser	NFI						
AOI-40 Former Oleum UST (Tank #4023)	Installation of monitoring wells during FE#2 downgradient of general area to evalute soil and groundwater conditions.	No Field Event #1 Activity. Specific location of historical tank is unknown. Monitoring well installation hydraulically downgradient of the area planned during Field Event #2.	NA	Install monitoring well(s)	-		TCL VOCs, TCL SVOCs, TCL PCBs
AOI-41 Former Paint Booth	NFI						
AOI-42 Former Degreaser	NFI						
AOI-43 PCB-Containing Transformers	NFI						
AOI-44 Satellite Accumulation Areas	NFI						
AOI-45 Compactor	Additional soil Investigation during FE#2 to delineate the extent of benzo(a)pyrene in soil. Background analysis to be performed in FE#2.	**Soil:** Benzo(a)pyrene concentration in one shallow sample greater than industrial criteria. Area is covered with concrete. **GW:** No samples needed. **DWP:** Some inorganics detected above DWP criteria.	Figures 10A, NA, 7C.	Installed 3 soil borings	-	9	TCL VOCs, TCL SVOCs, TCL PCBs, and TAL Metals
AOI-46 Lead Solder Booth	NFI						
AOI-47 Zyglo Line	NFI						
AOI-48 Groundwater (Northwest potential off-site)	Installation of monitoring wells and piezometers FE#2 to confirm results and refine understanding of groundwater conditions.	On-going source area delineation. TCE detected north of Davison Road in samples collected in February 2003.	Various				
AOI-48 Groundwater (Southeast & Building 4111)	Installation of monitoring wells during FE#2 and groundwater sampling to confirm groundwater conditions.	**Soil:** Courtyard sample concentrations less than default industrial criteria. **GW:** Elevated concentrations of volatiles detected (mobile laboratory) in groundwater samples from beneath Building 4111. **DWP:** No concentrations above DWP criteria.	Various		4	-	TCL VOCs
AOI-49 Building 4082	Installation of monitoring wells during FE#2 to confirm soil and groundwater conditions.	**Soil:** Concentrations of volatile organic compounds above industrial criteria. **GW:** Concentrations of volatile organic compounds above industrial critieria. **DWP:** Concentrations of volatile organic compounds above DWP.	Figures 11A, 4B, 6C.	Source Area Delineation	6	12	TCL VOCs
AOI-50 Crane Bay	Installation of monitoring wells during FE#2 to confirm extent of free product, collect additional product samples, and confirm groundwater conditions.	Use of borings for visual evidence of free phase product. Area delineated based on visual evidence. Chlorinated compounds detected in LNAPL sample.	Figure 4	Installed 12 soil borings for visual evidence of free product	-	-	Visual Inspection

Notes and Abbreviations:
1. NFI - No Further Field Investigation during Field Event #2.
2. Shading indicates AOI with no further investigation based on findings of Current Conditions Report.
3. Chlorinated compounds detected in groundwater are being addressed under AOI-26, AOI-48, AOI-49, or AOI-50 even though concentrations may appear located within other adjacent AOIs..

TABLE II
SUMMARY OF HORIZONTAL HYDRAULIC CONDUCTIVITY DATA
MONITORING WELL SLUG TESTING
FLINT EAST, PLANT 400, DORT HIGHWAY
FLINT, MICHIGAN

Well Identification	Test Date	Measured Static Water Level (ft)	Corrected Static Water Level[2] (ft)	Well Casing Radius (ft)	Effective Well Radius (ft)	Saturation Thickness[4] (ft)	Effective Screen Length (ft)	Hydraulic Conductivity[1] (ft/min)	Hydraulic Conductivity[1] (cm/sec)
MW4101	09/25/01	7.58		0.19	0.33	3.7	3.7	4.2E-03	2.1E-03
MW4106	07/16/02	4.18	4.174	0.19	0.33	4.6	4.6	1.2E-02	6.1E-03
MW4113[5]	07/12/02	12.58	12.923	NA	NA	NA	NA	NA	NA
MW4601D	07/09/02	12.51	12.464	0.08	0.33	13.5	5	7.0E-04	3.6E-04
MW4601S	09/25/01	8.45		0.19	0.33	2.9	2.9	3.4E-03	1.7E-03
	07/10/02	8.25	8.21	0.19	0.33	3.1	3.1	1.5E-01	7.6E-02
MW4603	09/24/01	14.73	11.42	0.08	0.33	7.6	5	4.1E-03	2.1E-03
	07/10/02	14.12		0.19	0.33	4.7	4.7	2.0E-01	1.0E-01
MW4604D[6]	07/07/02	16.2	0.2	0.08	0.33	20.3	10	3.5E-02	1.8E-02
MW4605D	07/11/02	17.22	18.438	0.08	0.33	16.6	10	1.5E-02	7.6E-03
MW4605S	07/11/02	17.4	17.379	0.19	0.33	2.4	2.4	3.3E-02	1.7E-02
MW4606	09/25/01	9		0.19	0.33	3.3	3.3	1.4E-02	7.1E-03
MW4607	09/24/01	8.49		0.08	0.33	5.5	5	4.5E-04	2.3E-04
MW4608	07/11/02	5.8	5.699	0.08	0.33	6.8	5	2.2E-03	1.1E-03
MW4609	09/24/01	5.9		0.08	0.33	6.6	5	3.5E-04	1.8E-04
	07/10/02	6.2		0.08	0.33	6.3	5	1.3E-03	6.6E-04
MW4610D	09/24/01	16.17		0.08	0.33	13.3	5	3.9E-03	2.0E-03
	07/12/02	16.59	16.556	0.08	0.33	12.9	5	3.2E-03	1.6E-03
MW4610S	07/14/02	6.38		0.19	0.33	3.4	3.4	2.4E-02	1.2E-02
MW4612	09/25/01	18.03		0.19	0.33	2	2	1.6E-02	8.1E-03
	07/10/02	17.5		0.19	0.33	2.5	2.5	5.0E-02	2.5E-02
MW4614	07/16/02	8.73	8.694	0.08	0.33	5.3	5	4.9E-03	2.5E-03
MW4615D	07/10/02	21.02	21.011	0.19	0.33	2.8	2.8	1.8E-01	9.1E-02
MW4615D_36	07/10/02	21.02	20.984	0.19	0.33	2.8	2.8	1.8E-01	9.1E-02
MW4615S	07/10/02	7.75		0.19	0.33	2.6	2.6	1.7E-01	8.6E-02
MW4620D	07/10/02	15.49	15.316	0.08	0.33	14.7	5	3.6E-02	1.8E-02
MW4620S	07/17/02	15.45		0.19	0.33	2.4	2.4	4.1E-03	2.1E-03
MW4621D	07/17/02	15.92		0.08	0.33	15.1	5	5.4E-04	2.7E-04
MW4622D	07/17/02	16.25	14.82	0.08	0.33	18.2	5	1.4E-03	7.1E-04
MW4622S	07/17/02	7.55		0.19	0.33	4.3	4.3	8.2E-02	4.2E-02
MW4623D	07/11/02	15.61	15.589	0.08	0.33	26.4	10	3.3E-02	1.7E-02
MW4623S	07/14/02	15.9	15.85	0.19	0.33	4	4	2.8E-01	1.4E-01
MW4623S_36	07/11/02	15.9	15.896	0.19	0.33	3.9	3.9	3.6E-01	1.8E-01

Notes and Abbreviations:

[1]Determined via the Bouwer and Rice Method for unconfined saturated zones.

[2]If the recovered water levels were higher than the measured static water levels (SWL), then the SWL's inputted to the spreadsheet were changed to equal the recovered water levels recorded at the conclusion of the slug tests (assuming that all wells reached full recovery).

[3]Each well exhibits an initial decrease in water level (or random fluctuation) from time zero to approximately 0.25 minutes, which may indicate that the transducer wire was handled at the surface by the person conducting the test. As such, slug test data that was inserted into the spreadsheet calculations begin at the lowest recorded water level reading and corresponding time. The initial measurements were discarded. It is suspected that the handling resulted in a change in depth of the transducer, which would account for the differences between the recovered water levels and the measured static water levels; hence the need for correction of the static water levels for input into the spreadsheet (See note 2)).

[4]Bottom well depth, used to calculate Saturated Thickness (H), is assumed to be the bottom of the screen.

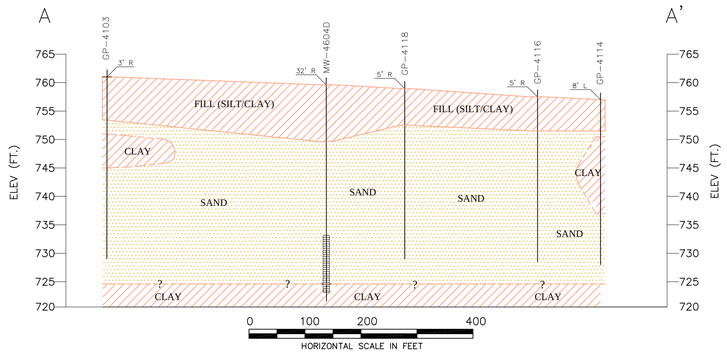
[5]A borehole log was not available for MW4113 and so a spreadsheet was not prepared for this well. Slug test data indicates that WL fluctuates throughout test and does not exhibit expected pattern towards recovery.

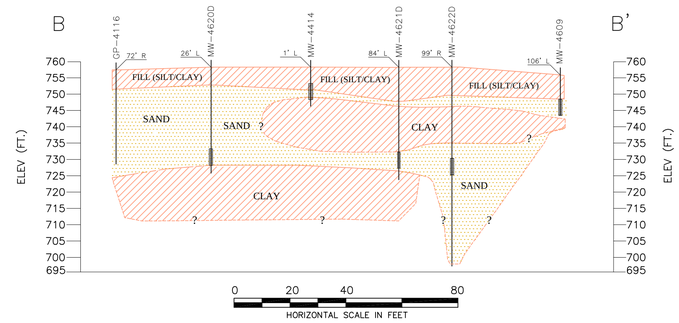
[6]Slug test results for MW4604D indicate water levels approximately 15 feet higher than the recorded SWL. The initial SWL that was calibrated on the instrument has a negative pressure.

[7]For those wells with SWL's above the screened interval, the first few points, which appear to be a straight-line segment on the Hydraulic Conductivity chart, should be representative of the aquifer's performance. For those wells with SWL's within the screened interval, the steep slope of the regression through the initial few points represent drainage of the sand pack. The slope of the regression line through the next set of points, which appear to be a second straight-line segment, were chosen to be representative of the undisturbed aquifer's behaviour. The occurance of the two straight-line segments in this situation is well-documented.

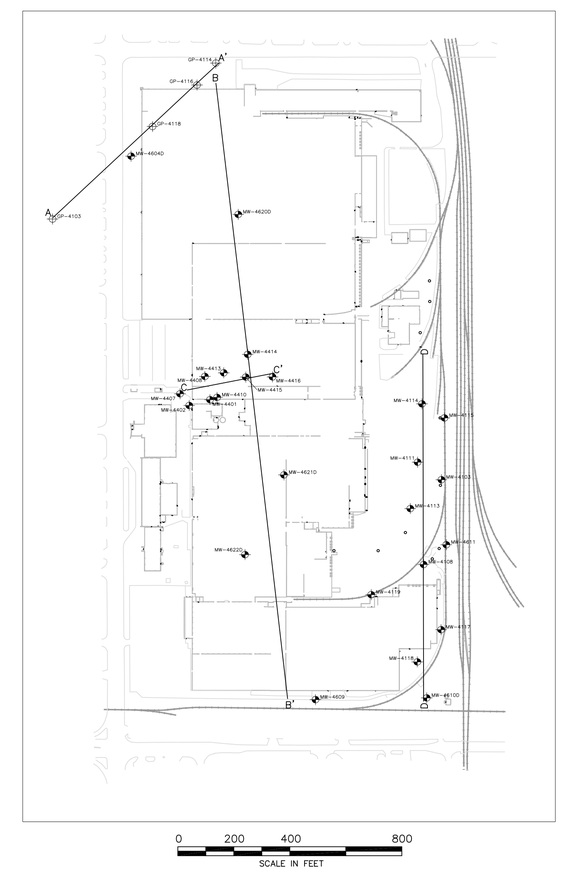
Haley Aldrich, Inc.
3/28/2003

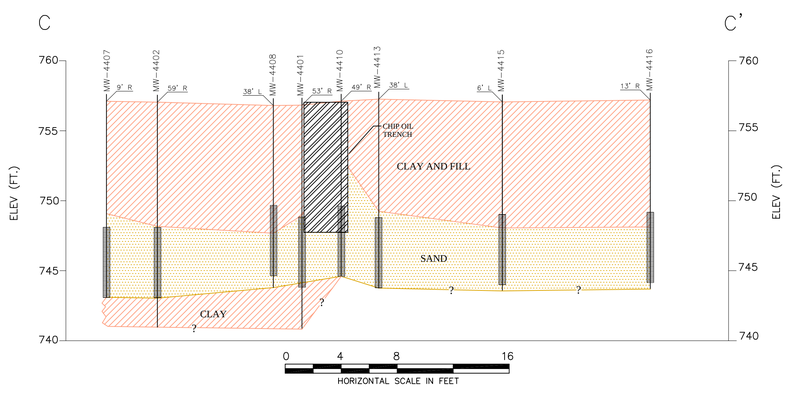
FIGURES

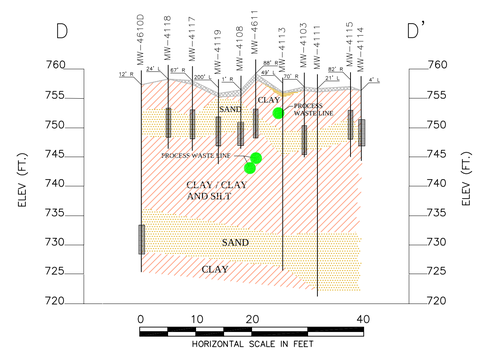




SITE PLAN







BORING LEGEND

OFFSET FROM SECTION LINE. — 1' L — MW-4414 — EXPLORATION DESIGNATION.

WELL SCREEN.

LEGEND:

GP-4118 GEOPROBE TEST BORING IDENTIFICATION.
MW-4604D MONITORING WELL IDENTIFICATION.
? STRATIGRAPHY CONTACT UNDETERMINED.

NOTES:

1. BASE PLAN PROVIDED BY DELPHI AUTOMOTIVE SYSTEMS, INC.
2. LOCATIONS OF MONITORING WELLS ARE APPROXIMATE.
3. NO SCRREN INFORMATION AVAILABLE FOR MW-4113 AND MW-4111.
4. THE SOIL STRATIGRAPHY SHOWN ARE ONLY GENERALIZED INTERPOLATIONS MADE BETWEEN BORING LOCATIONS AND BASED ON SUBSURFACE CONDITIONS ENCOUNTERED AT SITE WIDE BORING LOCATIONS.
5. THE SOIL STRATIGRAPHY SHOWN SOLEY REPRESENTS AN INTERPRETATION OF THE SUBSURFACE CONDITIONS.
6. ACTUAL SOIL STRATIGRAPHY MAY DIFFER FROM THE STRATIGRAPHY SHOWN ON THE PROFILE IN THIS DRAWING.

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
PLANT 400 – 1300 NORTH DORT HIGHWAY
FLINT, MICHIGAN

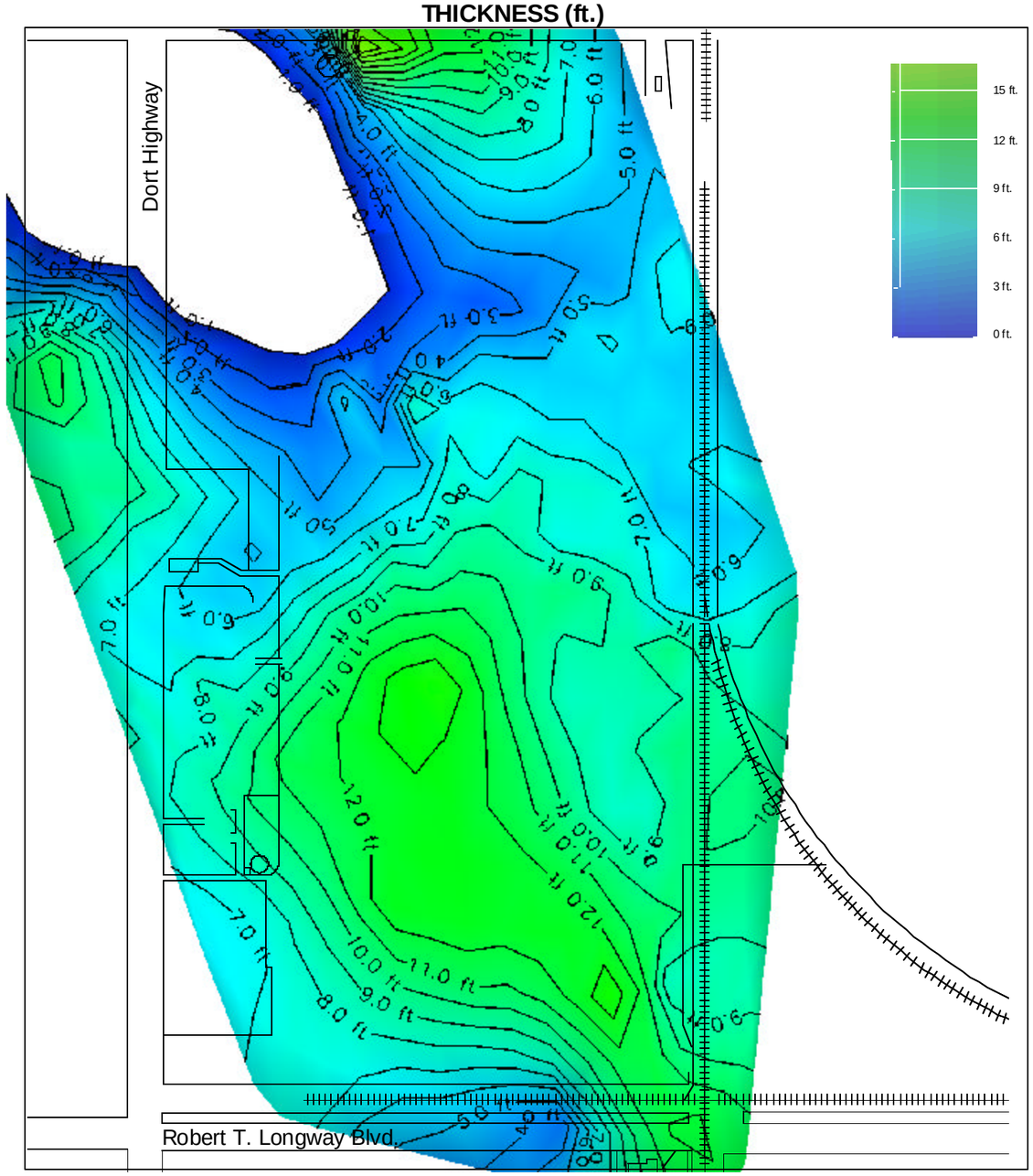
SITE WIDE CROSS SECTION

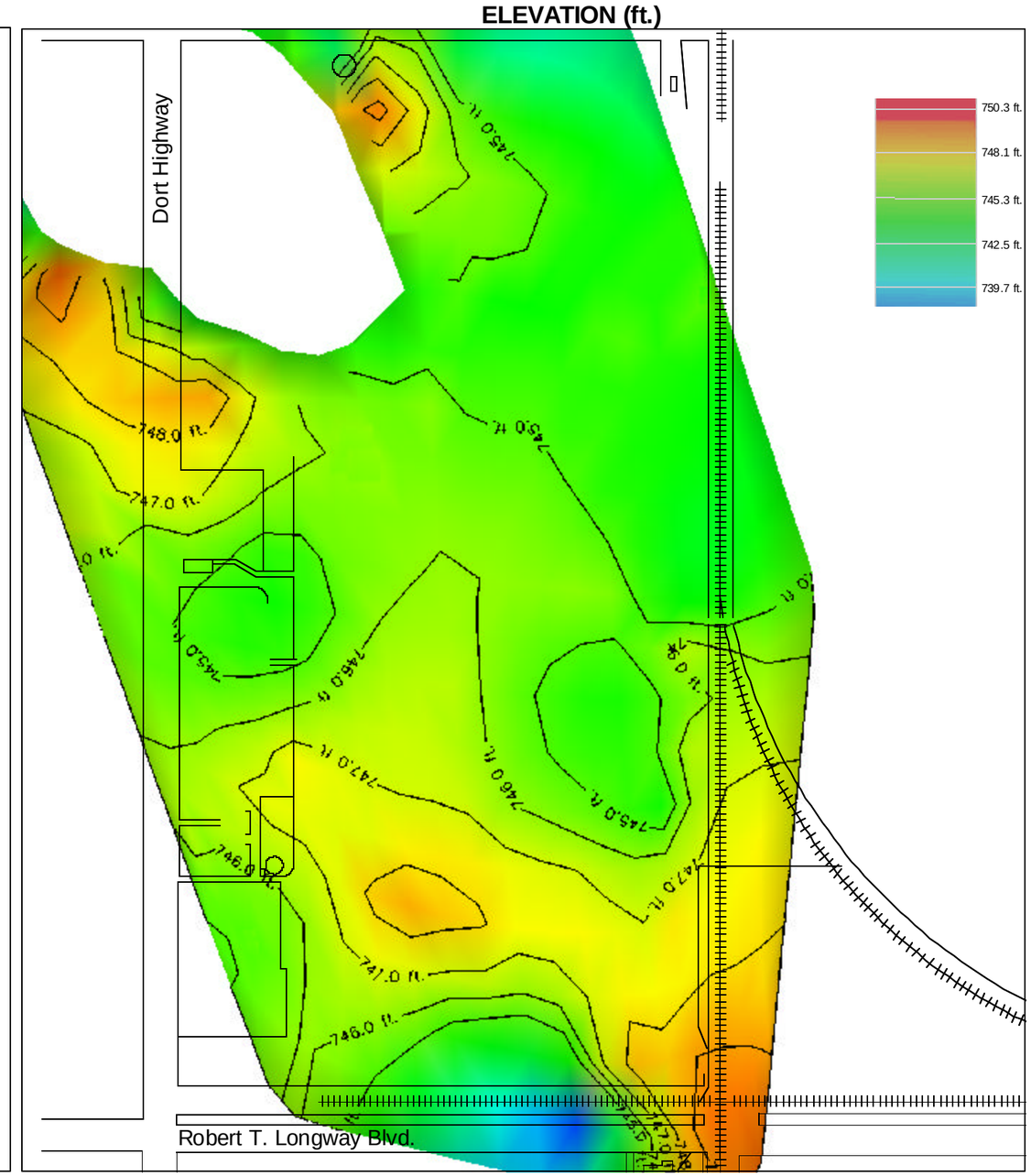
SCALE: AS SHOWN

MARCH 2003

FIGURE 1

49017\017 – FE1 DATA EVALUATION\CROSSSECTIONS\SITE WIDE CROSS SECTIONSR3.DWG





NOTES:

1. The inferred extent, thickness, and elevation of the aquitard is based on multiple borings not shown on plan.
2. Thickness and elevation contour lines are based on geostatistical analysis of available data encountered at site wide boring locations.
3. The extent, elevation, and thickness of the aquitard represents an interpretation of the subsurface conditions.
4. Actual conditions may differ from the representation shown above.

200 0 200 400 Feet

N

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

Delphi Corporation
Flint East
Dort Highway/ Plant 400
Flint, Michigan

AQUITARD BETWEEN FIRST AND SECOND SATURATED ZONES

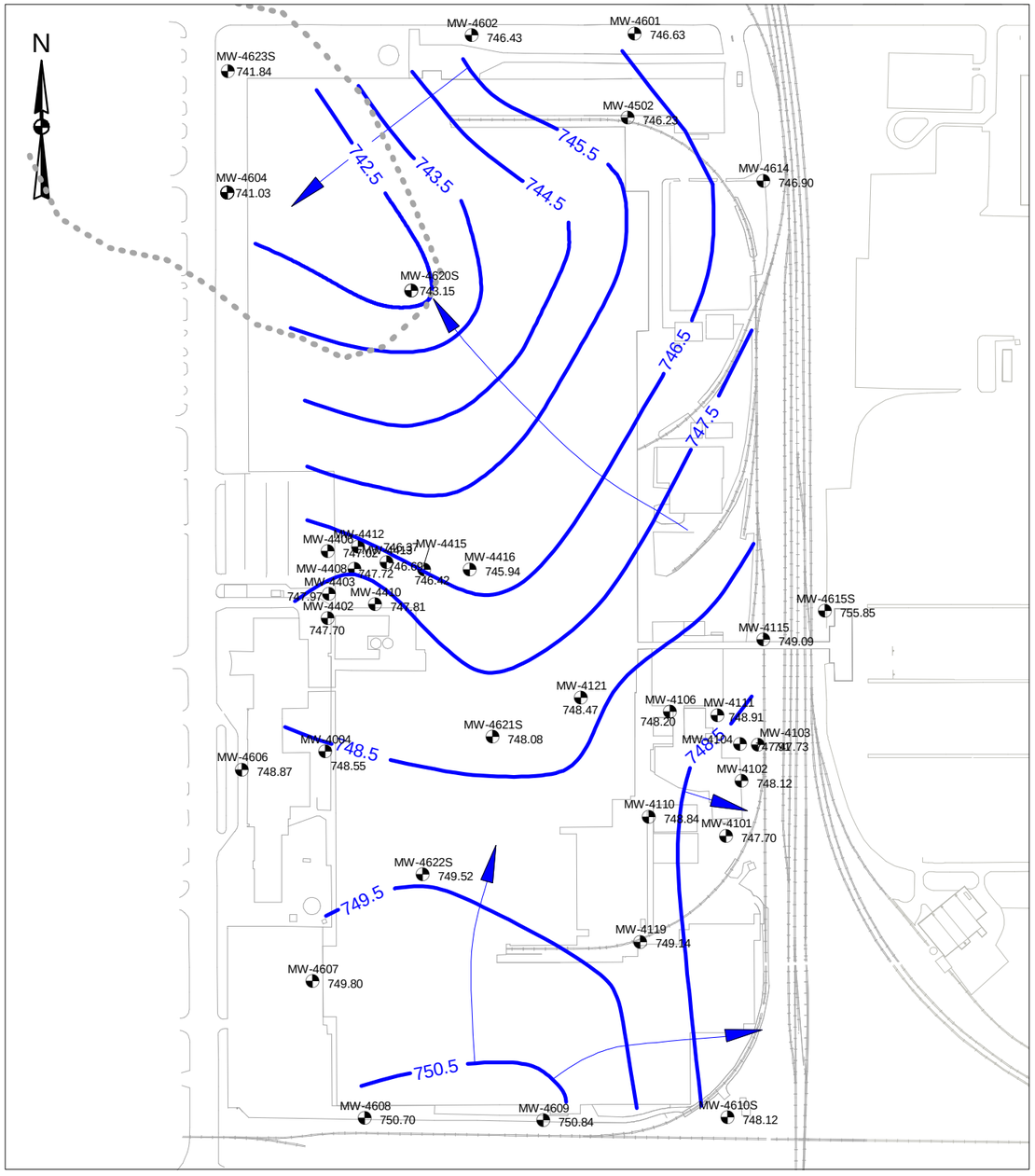
SCALE: AS SHOWN

MARCH 21, 2003

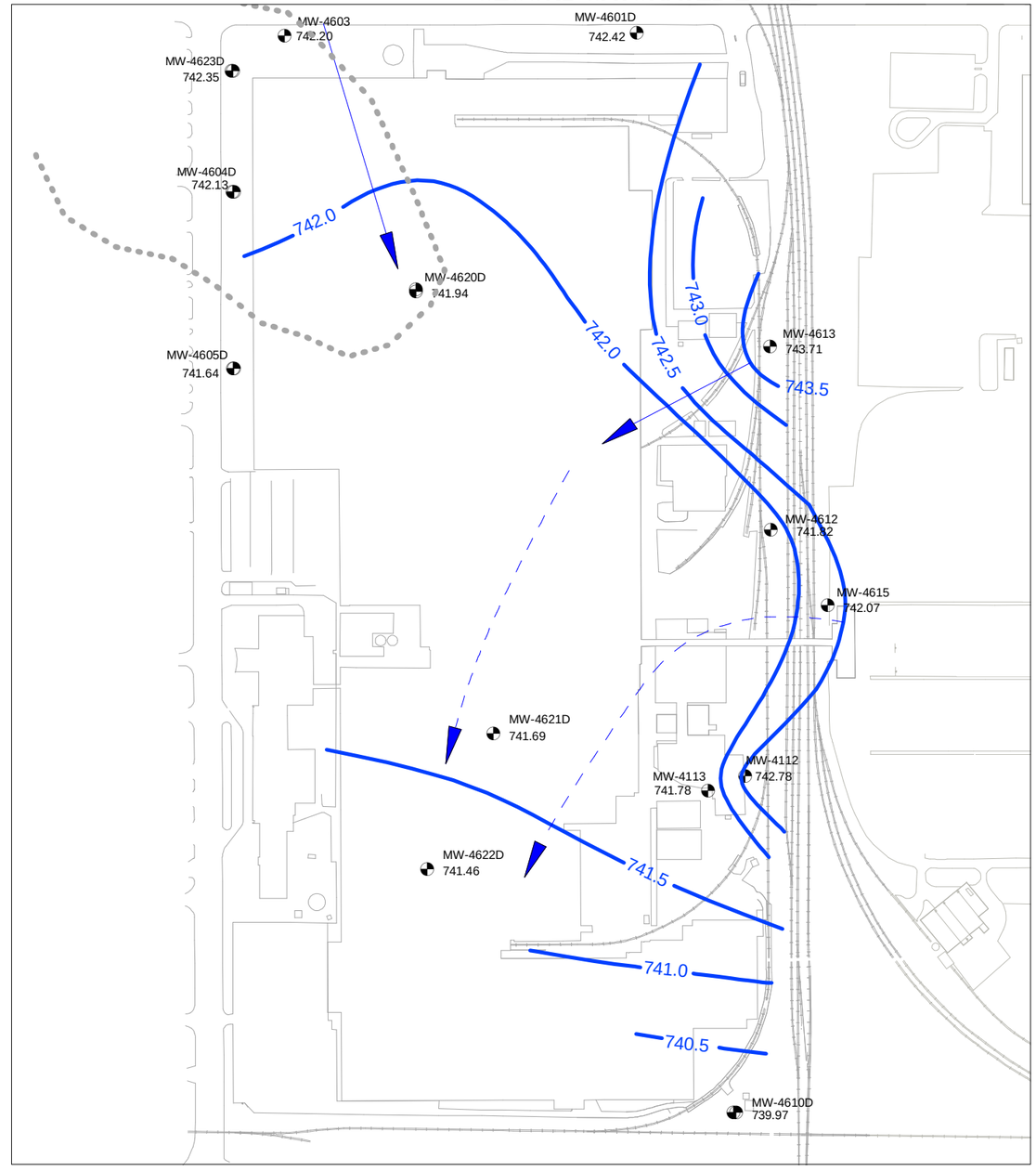
G:\49017\GIS\CLAYICLAY_ISOPACH.apr (49017/Database/Dort_Highway.mdb)

FIGURE 2

FIRST SATURATED ZONE



SECOND SATURATED ZONE



LEGEND

- Inferred Extent of Clay
- 748.6 Location of Monitoring Well and elevation datum used to generate potentiometric contours
- Potentiometric Surface Contour
- Inferred Groundwater Flow Direction

NOTES:

1. Groundwater measurements collected December 2002.
2. Elevation contours presented in this figure indicate general trends only. Actual field conditions may vary from the indicated contours.
3. The inferred extent of clay is based on multiple borings not shown on plan.
4. Groundwater flow can be influenced by the clay extent, underground appurtenances and localized geologic conditions.
5. Groundwater elevations based on survery performed by Hubble, Roth, and Clark, Inc. in June and July 2002.
6. Elevation refers to Hubble, Roth & Clark datum wherein EL USGS Vertical Datum is 0.79 ft above HRC site specific datum.

200 0 200 400 Feet

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

Delphi Corporation
Flint East
Dort Highway/ Plant 400
Flint, Michigan

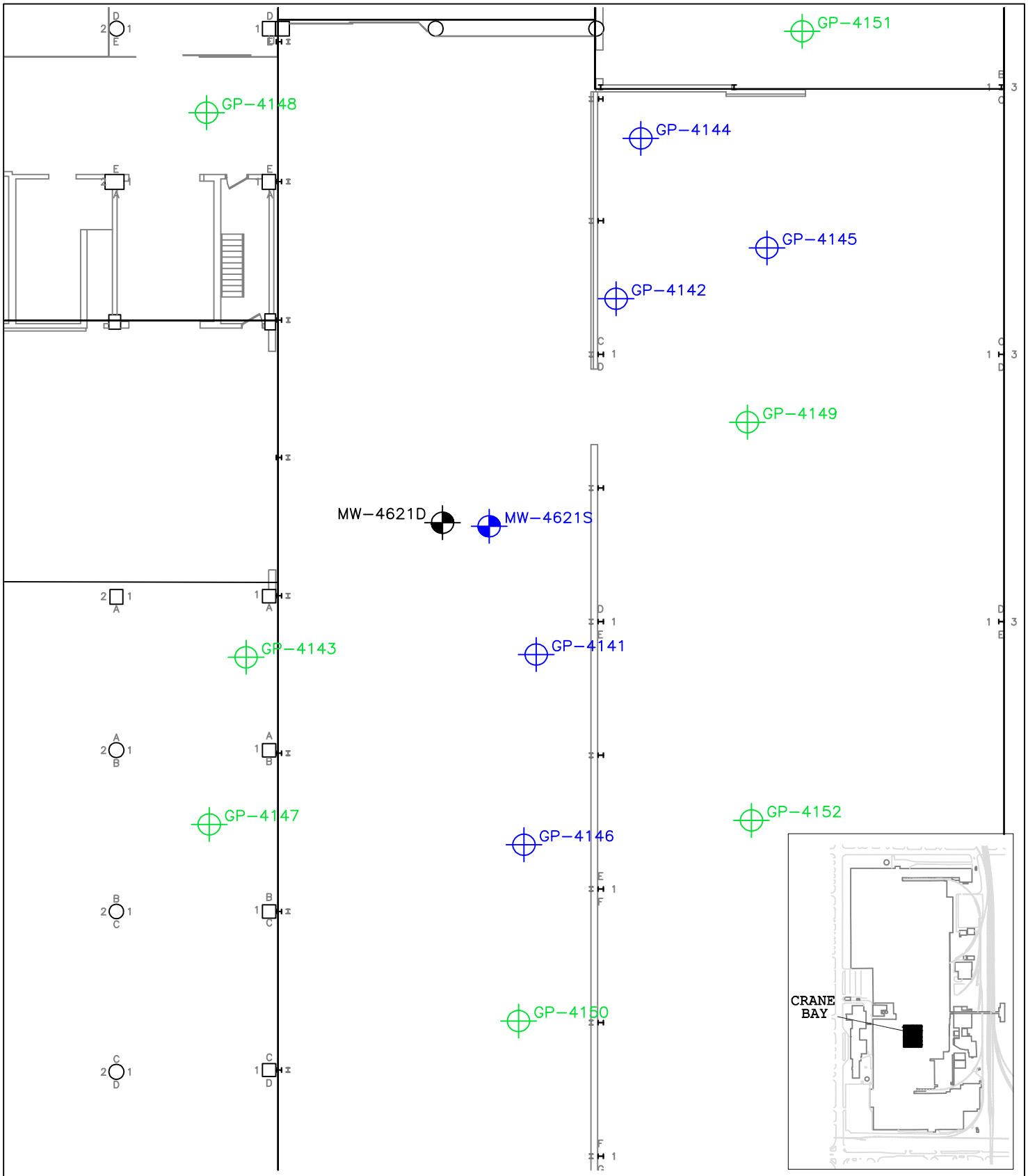
POTENTIOMETRIC SURFACE CONTOURS - DECEMBER 2002

SCALE: AS SHOWN

MARCH 2003

G:49017\017\GWE\GWE3.apr (49017\Database\Dort_Highway.mdb)

FIGURE 3



LEGEND:

MW-4621D MONITORING WELLS

GP-4151 NO VISUAL EVIDENCE OF FREE PRODUCT

GP-4144 VISUAL EVIDENCE OF FREE PRODUCT

0 5 10 20
GRAPHIC SCALE IN FEET

NOTES:
1. BASE PLAN PROVIDED BY DELPHI CORPORATION, INC.
2. LOCATIONS OF MONITORING WELLS AND GEOPROBE LOCATIONS ARE APPROXIMATE.

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
PLANT 400 – 1300 NORTH DORT HIGHWAY
FLINT, MICHIGAN

CRANE BAY FREE PRODUCT DELINIATION

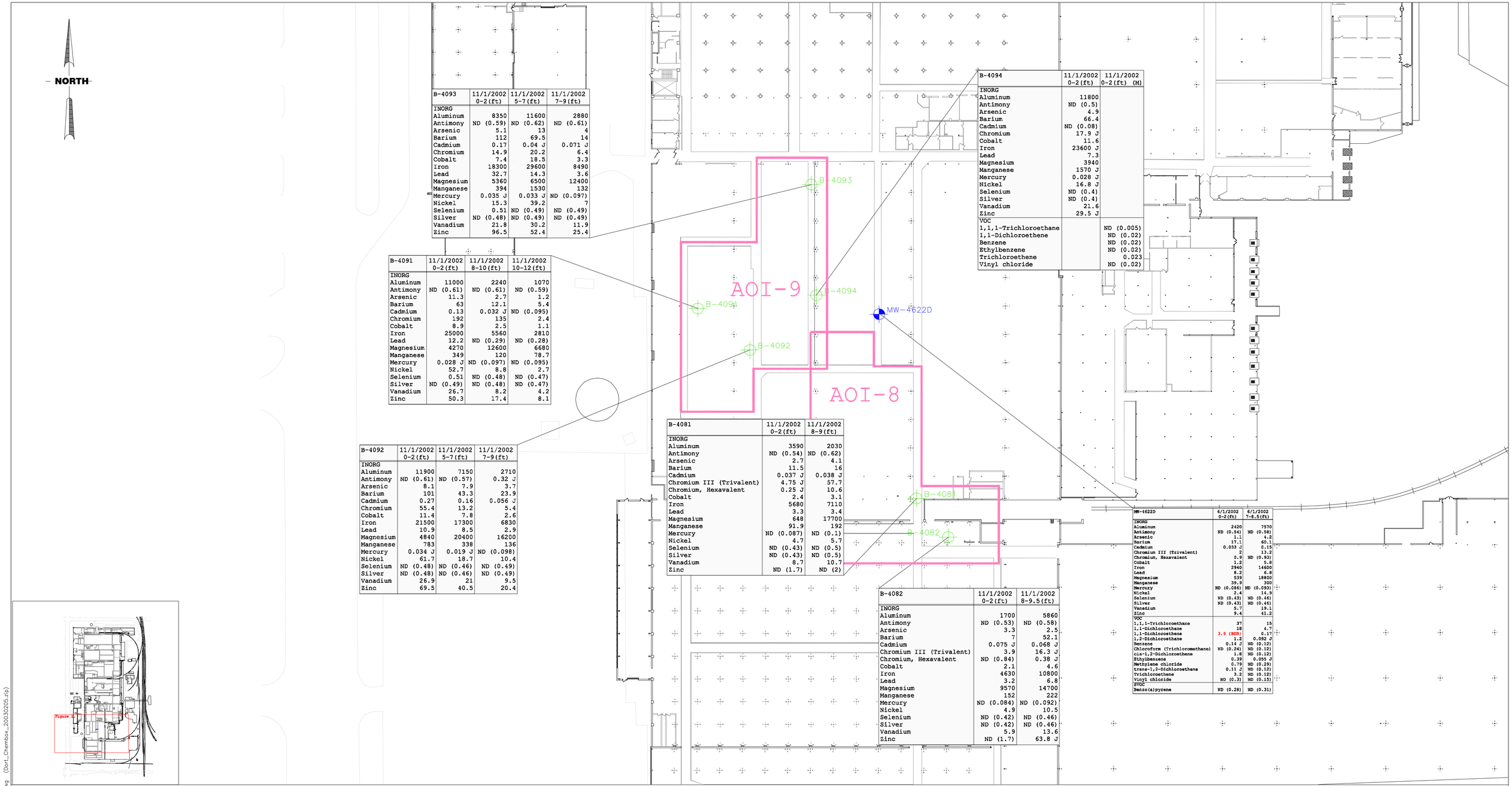
SCALE: AS SHOWN

MARCH 2003

FIGURE 4

APPENDIX A

Soil Screening Figures



B-4093	11/1/2002 0-2(ft)	11/1/2002 5-7(ft)	11/1/2002 7-9(ft)
INORG			
Aluminum	8350	11600	2880
Antimony	ND (0.59)	ND (0.62)	ND (0.61)
Arsenic	5.1	13	4
Barium	112	69.5	14
Cadmium	0.17	0.04 J	0.071 J
Chromium	14.9	20.2	6.4
Cobalt	7.4	18.5	3.3
Iron	18300	29600	8490
Lead	32.7	14.3	3.6
Magnesium	5360	6500	12400
Manganese	394	1530	132
Mercury	0.035 J	0.033 J	ND (0.097)
Nickel	15.3	39.2	7
Selenium	0.51	ND (0.49)	ND (0.49)
Silver	ND (0.48)	ND (0.49)	ND (0.49)
Vanadium	21.8	30.2	11.9
Zinc	96.5	52.4	25.4

B-4091	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 10-12(ft)
INORG			
Aluminum	11000	2240	1070
Antimony	ND (0.61)	ND (0.61)	ND (0.59)
Arsenic	11.3	2.7	1.2
Barium	63	12.1	5.4
Cadmium	0.13	0.032 J	ND (0.095)
Chromium	192	135	2.4
Cobalt	8.9	2.5	1.1
Iron	25000	5560	2810
Lead	12.2	ND (0.29)	ND (0.28)
Magnesium	4270	12600	6680
Manganese	349	120	78.7
Mercury	0.028 J	ND (0.097)	ND (0.095)
Nickel	52.7	8.8	2.7
Selenium	0.51	ND (0.48)	ND (0.47)
Silver	ND (0.49)	ND (0.48)	ND (0.47)
Vanadium	26.7	8.2	4.2
Zinc	50.3	17.4	8.1

B-4092	11/1/2002 0-2(ft)	11/1/2002 5-7(ft)	11/1/2002 7-9(ft)
INORG			
Aluminum	11900	7150	2710
Antimony	ND (0.61)	ND (0.57)	0.32 J
Arsenic	8.1	7.9	3.7
Barium	101	43.3	23.9
Cadmium	0.27	0.16	0.056 J
Chromium	55.4	13.2	5.4
Cobalt	11.4	7.8	2.6
Iron	21500	17300	6830
Lead	10.9	8.5	2.9
Magnesium	4840	20400	16200
Manganese	783	338	136
Mercury	0.034 J	0.019 J	ND (0.098)
Nickel	61.7	18.7	10.4
Selenium	ND (0.48)	ND (0.46)	ND (0.49)
Silver	ND (0.48)	ND (0.46)	ND (0.49)
Vanadium	26.9	21	9.5
Zinc	69.5	40.5	20.4

B-4081	11/1/2002 0-2(ft)	11/1/2002 8-9(ft)
INORG		
Aluminum	3590	2030
Antimony	ND (0.54)	ND (0.62)
Arsenic	2.7	4.1
Barium	11.5	16
Cadmium	0.037 J	0.038 J
Chromium III (Trivalent)	4.75 J	57.7
Chromium, Hexavalent	0.25 J	10.6
Cobalt	2.4	3.1
Iron	5680	7110
Lead	3.3	3.4
Magnesium	648	17700
Manganese	91.9	192
Mercury	ND (0.087)	ND (0.1)
Nickel	4.7	5.7
Selenium	ND (0.43)	ND (0.5)
Silver	ND (0.43)	ND (0.5)
Vanadium	8.7	10.7
Zinc	ND (1.7)	ND (2)

B-4082	11/1/2002 0-2(ft)	11/1/2002 8-9.5(ft)
INORG		
Aluminum	1700	5860
Antimony	ND (0.53)	ND (0.58)
Arsenic	3.3	2.5
Barium	7	52.1
Cadmium	0.075 J	0.068 J
Chromium III (Trivalent)	3.9	16.3 J
Chromium, Hexavalent	ND (0.84)	0.38 J
Cobalt	2.1	4.6
Iron	4630	10800
Lead	3.2	6.8
Magnesium	9570	14700
Manganese	152	222
Mercury	ND (0.084)	ND (0.092)
Nickel	4.9	10.5
Selenium	ND (0.42)	ND (0.46)
Silver	ND (0.42)	ND (0.46)
Vanadium	5.9	13.6
Zinc	ND (1.7)	63.8 J

B-4094	11/1/2002 0-2(ft)	11/1/2002 0-2(ft) (M)
INORG		
Aluminum	11800	
Antimony	ND (0.5)	
Arsenic	4.9	
Barium	66.4	
Cadmium	ND (0.08)	
Chromium	17.9 J	
Cobalt	11.6	
Iron	23600 J	
Lead	7.3	
Magnesium	3940	
Manganese	1570 J	
Mercury	0.028 J	
Nickel	16.8 J	
Selenium	ND (0.4)	
Silver	ND (0.4)	
Vanadium	21.6	
Zinc	29.5 J	
VOC		
1,1,1-Trichloroethane		ND (0.005)
1,1-Dichloroethene		ND (0.02)
Benzene		ND (0.02)
Ethylbenzene		ND (0.02)
Trichloroethene		0.023
Vinyl chloride		ND (0.02)

MW-4622D	6/1/2002 0-2(ft)	6/1/2002 7-8.5(ft)
INORG		
Aluminum	2420	7570
Antimony	ND (0.54)	ND (0.58)
Arsenic	1.1	4.2
Barium	17.1	60.1
Cadmium	0.033 J	0.15
Chromium III (Trivalent)	2	13.2
Chromium, Hexavalent	0.9	ND (0.93)
Cobalt	1.2	5.8
Iron	2940	14600
Lead	8.2	6.8
Magnesium	539	18800
Manganese	39.9	300
Mercury	ND (0.086)	ND (0.093)
Nickel	2.4	14.9
Selenium	ND (0.43)	ND (0.46)
Silver	ND (0.43)	ND (0.46)
Vanadium	5.7	19.1
Zinc	9.4	41.2
VOC		
1,1,1-Trichloroethane	37	15
1,1-Dichloroethane	18	4.7
1,1-Dichloroethene	3.9 (BDR)	0.17
1,2-Dichloroethane	1.2	0.092 J
Benzene	0.14 J	ND (0.12)
Chloroform (Trichloromethane)	ND (0.24)	ND (0.12)
cis-1,2-Dichloroethene	1.8	ND (0.12)
Ethylbenzene	0.39	0.055 J
Methylene chloride	0.79	ND (0.29)
trans-1,2-Dichloroethene	0.11 J	ND (0.12)
Trichloroethene	3.2	ND (0.12)
Vinyl chloride	ND (0.3)	ND (0.15)
SVOC		
Benzo(a)pyrene	ND (0.28)	ND (0.31)

NOTES:
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/kg.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   NA – Not Available, associated with Pre-RFI data.
   / – Indicates duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   BR – Exceeds Industrial Direct Contact Screening Criteria
   AR – Exceeds Industrial Volatilization to Indoor Air Screening Criteria
   BDR – Exceeds Industrial Volatilization to Indoor Air and Industrial Volatilization to Ambient Air Screening Criteria
   E – Exceeds Residential Direct Contact Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

B-4271 Field Event #1 Boring Location

MW-4611 Monitoring Well (Second Saturated Zone)

0 20 40 80 120
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

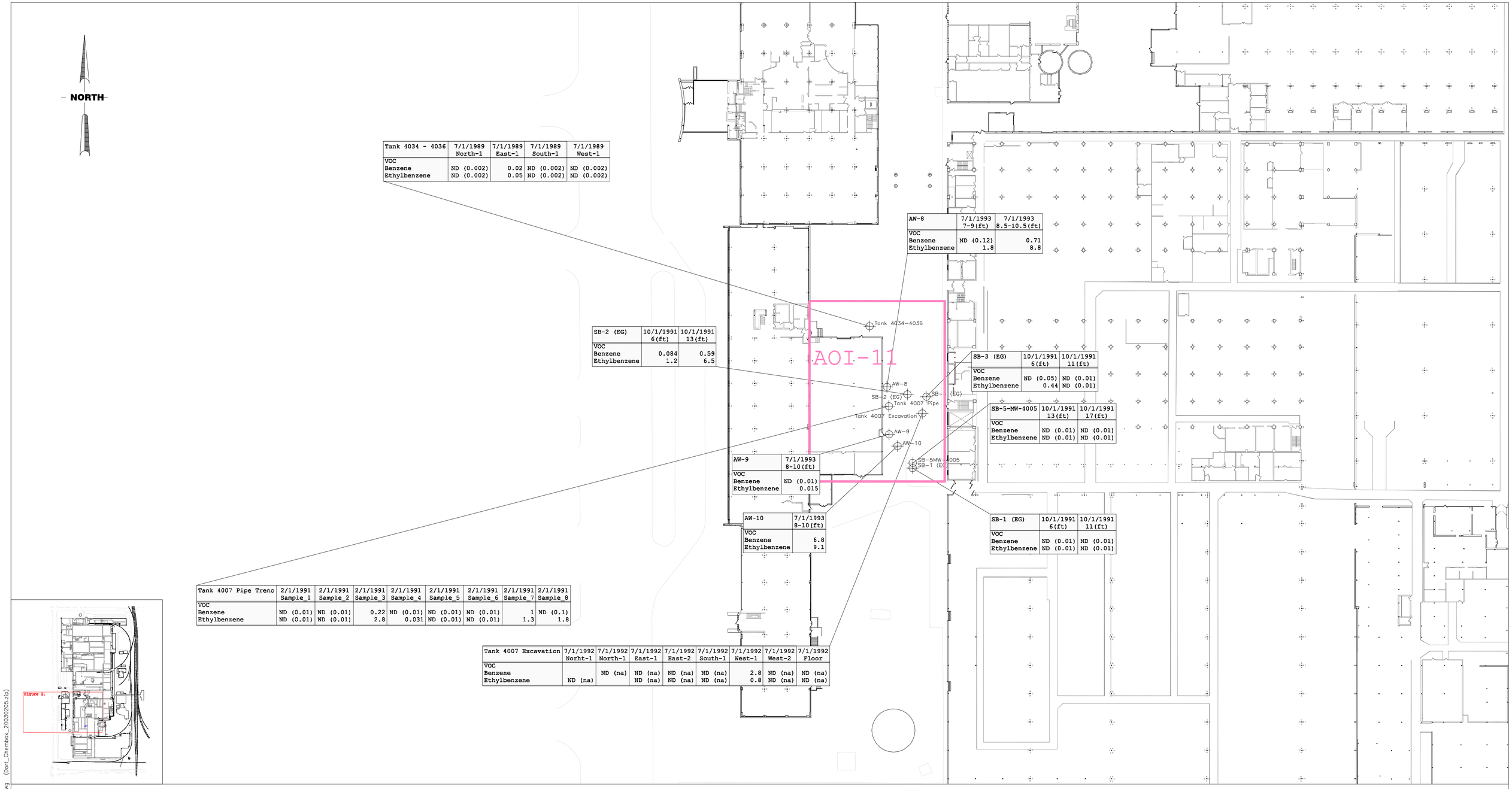
DELPHI CORPORATION
FLINT-EAST, PLANT 4OD
DORT HIGHWAY
FLINT, MICHIGAN

SOIL ANALYTICAL RESULTS FOR AOI-8 FORMER HARD CHROME PLATING LINE AND AOI-9 BARREL, RACK, AND U1 PLATING LINE

SCALE: AS SHOWN
March 28, 2003

FIGURE 1A

G:\49017\017\posting\FE1_Soil_Posting_RCP.dwg (Dort_Chemtox_20030205.zip)



Tank 4034 - 4036	7/1/1989 North-1	7/1/1989 East-1	7/1/1989 South-1	7/1/1989 West-1
VOC				
Benzene	ND (0.002)	0.02	ND (0.002)	ND (0.002)
Ethylbenzene	ND (0.002)	0.05	ND (0.002)	ND (0.002)

SB-2 (EG)	10/1/1991 6(ft)	10/1/1991 13(ft)
VOC		
Benzene	0.084	0.59
Ethylbenzene	1.2	6.5

AW-8	7/1/1993 7-9(ft)	7/1/1993 8.5-10.5(ft)
VOC		
Benzene	ND (0.12)	0.71
Ethylbenzene	1.8	8.8

SB-3 (EG)	10/1/1991 6(ft)	10/1/1991 11(ft)
VOC		
Benzene	ND (0.05)	ND (0.01)
Ethylbenzene	0.44	ND (0.01)

SB-5-MW-4005	10/1/1991 13(ft)	10/1/1991 17(ft)
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

AW-9	7/1/1993 8-10(ft)
VOC	
Benzene	ND (0.01)
Ethylbenzene	0.015

AW-10	7/1/1993 8-10(ft)
VOC	
Benzene	6.8
Ethylbenzene	9.1

SB-1 (EG)	10/1/1991 6(ft)	10/1/1991 11(ft)
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

Tank 4007 Pipe Trenc	2/1/1991 Sample 1	2/1/1991 Sample 2	2/1/1991 Sample 3	2/1/1991 Sample 4	2/1/1991 Sample 5	2/1/1991 Sample 6	2/1/1991 Sample 7	2/1/1991 Sample 8
VOC								
Benzene	ND (0.01)	ND (0.01)	0.22	ND (0.01)	ND (0.01)	ND (0.01)	1	ND (0.1)
Ethylbenzene	ND (0.01)	ND (0.01)	2.8	0.031	ND (0.01)	ND (0.01)	1.3	1.8

Tank 4007 Excavation	7/1/1992 Norht-1	7/1/1992 North-1	7/1/1992 East-1	7/1/1992 East-2	7/1/1992 South-1	7/1/1992 West-1	7/1/1992 West-2	7/1/1992 Floor
VOC								
Benzene		ND (na)	ND (na)	ND (na)	ND (na)	2.8	ND (na)	ND (na)
Ethylbenzene	ND (na)		ND (na)	ND (na)	ND (na)	0.8	ND (na)	ND (na)

NOTES:

1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/kg.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   NA – Not Available, associated with Pre-RFI data.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   BR – Exceeds Industrial Direct Contact Screening Criteria
   AR – Exceeds Industrial Volatilization to Indoor Air Screening Criteria
   BDR – Exceeds Industrial Volatilization to Indoor Air and Industrial Volatilization to Ambient Air Screening Criteria
   E – Exceeds Residential Direct Contact Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

⊕ Pre-RFI Boring Location

0 20 40 80 120

SCALE IN FEET

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 40D
DORT HIGHWAY
FLINT, MICHIGAN

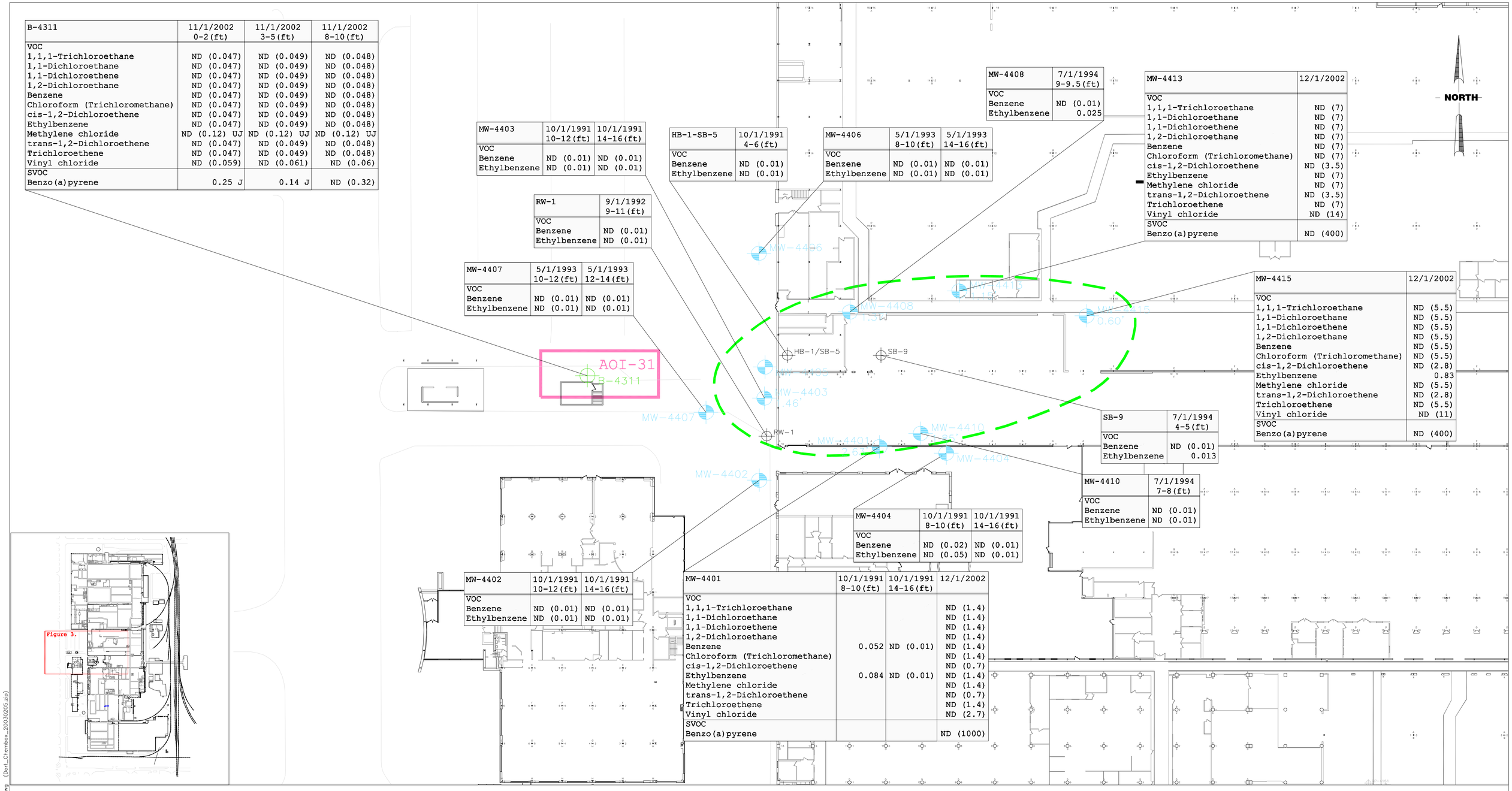
SOIL ANALYTICAL RESULTS FOR AOI-11 EXECUTIVE GARAGE

SCALE: AS SHOWN

March 28, 2003

FIGURE 2A

G:\49017\01?\posting\FE1_Soil_Posting_RCP.dwg (Dort_Chembox_20030205.zip)



B-4311	11/1/2002 0-2(ft)	11/1/2002 3-5(ft)	11/1/2002 8-10(ft)
VOC			
1,1,1-Trichloroethane	ND (0.047)	ND (0.049)	ND (0.048)
1,1-Dichloroethane	ND (0.047)	ND (0.049)	ND (0.048)
1,1-Dichloroethene	ND (0.047)	ND (0.049)	ND (0.048)
1,2-Dichloroethane	ND (0.047)	ND (0.049)	ND (0.048)
Benzene	ND (0.047)	ND (0.049)	ND (0.048)
Chloroform (Trichloromethane)	ND (0.047)	ND (0.049)	ND (0.048)
cis-1,2-Dichloroethene	ND (0.047)	ND (0.049)	ND (0.048)
Ethylbenzene	ND (0.047)	ND (0.049)	ND (0.048)
Methylene chloride	ND (0.12) UJ	ND (0.12) UJ	ND (0.12) UJ
trans-1,2-Dichloroethene	ND (0.047)	ND (0.049)	ND (0.048)
Trichloroethene	ND (0.047)	ND (0.049)	ND (0.048)
Vinyl chloride	ND (0.059)	ND (0.061)	ND (0.06)
SVOC			
Benzo(a)pyrene	0.25 J	0.14 J	ND (0.32)

MW-4403	10/1/1991 10-12(ft)	10/1/1991 14-16(ft)
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

HB-1-SB-5	10/1/1991 4-6(ft)
VOC	
Benzene	ND (0.01)
Ethylbenzene	ND (0.01)

MW-4406	5/1/1993 8-10(ft)	5/1/1993 14-16(ft)
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

MW-4408	7/1/1994 9-9.5(ft)
VOC	
Benzene	ND (0.01)
Ethylbenzene	0.025

MW-4413	12/1/2002
VOC	
1,1,1-Trichloroethane	ND (7)
1,1-Dichloroethane	ND (7)
1,1-Dichloroethene	ND (7)
1,2-Dichloroethane	ND (7)
Benzene	ND (7)
Chloroform (Trichloromethane)	ND (7)
cis-1,2-Dichloroethene	ND (3.5)
Ethylbenzene	ND (7)
Methylene chloride	ND (7)
trans-1,2-Dichloroethene	ND (3.5)
Trichloroethene	ND (7)
Vinyl chloride	ND (14)
SVOC	
Benzo(a)pyrene	ND (400)

RW-1	9/1/1992 9-11(ft)
VOC	
Benzene	ND (0.01)
Ethylbenzene	ND (0.01)

MW-4407	5/1/1993 10-12(ft)	5/1/1993 12-14(ft)
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

MW-4415	12/1/2002
VOC	
1,1,1-Trichloroethane	ND (5.5)
1,1-Dichloroethane	ND (5.5)
1,1-Dichloroethene	ND (5.5)
1,2-Dichloroethane	ND (5.5)
Benzene	ND (5.5)
Chloroform (Trichloromethane)	ND (5.5)
cis-1,2-Dichloroethene	ND (2.8)
Ethylbenzene	0.83
Methylene chloride	ND (5.5)
trans-1,2-Dichloroethene	ND (2.8)
Trichloroethene	ND (5.5)
Vinyl chloride	ND (11)
SVOC	
Benzo(a)pyrene	ND (400)

SB-9	7/1/1994 4-5(ft)
VOC	
Benzene	ND (0.01)
Ethylbenzene	0.013

MW-4410	7/1/1994 7-8(ft)
VOC	
Benzene	ND (0.01)
Ethylbenzene	ND (0.01)

MW-4404	10/1/1991 8-10(ft)	10/1/1991 14-16(ft)
VOC		
Benzene	ND (0.02)	ND (0.01)
Ethylbenzene	ND (0.05)	ND (0.01)

MW-4402	10/1/1991 10-12(ft)	10/1/1991 14-16(ft)
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

MW-4401	10/1/1991 8-10(ft)	10/1/1991 14-16(ft)	12/1/2002
VOC			
1,1,1-Trichloroethane			ND (1.4)
1,1-Dichloroethane			ND (1.4)
1,1-Dichloroethene			ND (1.4)
1,2-Dichloroethane			ND (1.4)
Benzene	0.052	ND (0.01)	ND (1.4)
Chloroform (Trichloromethane)			ND (1.4)
cis-1,2-Dichloroethene			ND (0.7)
Ethylbenzene	0.084	ND (0.01)	ND (1.4)
Methylene chloride			ND (1.4)
trans-1,2-Dichloroethene			ND (0.7)
Trichloroethene			ND (1.4)
Vinyl chloride			ND (2.7)
SVOC			
Benzo(a)pyrene			ND (1000)

NOTES:
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/kg.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   NA – Not Available, associated with Pre-RFI data.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in [ ].
   BR – Exceeds Industrial Direct Contact Screening Criteria
   AR – Exceeds Industrial Volatilization to Indoor Air Screening Criteria
   BDR – Exceeds Industrial Volatilization to Indoor Air and Industrial Volatilization to Ambient Air Screening Criteria
   E – Exceeds Residential Direct Contact Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND
- B-4271 Field Event #1 Boring Location
- MW-4107 FPT: Monitoring Well (First Saturated Zone); FPT: Free Product Thickness
- Estimated extent of free product based on Dec. 2002 Fluid Level Measurements

0 15 30 60 90
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 4OD
DORT HIGHWAY
FLINT, MICHIGAN

SOIL ANALYTICAL RESULTS FOR
AOI-13 GRIDLEY AREA AND AOI-31
FORMER DIESEL UST (#4052)

SCALE: AS SHOWN
March 28, 2003

FIGURE 3A

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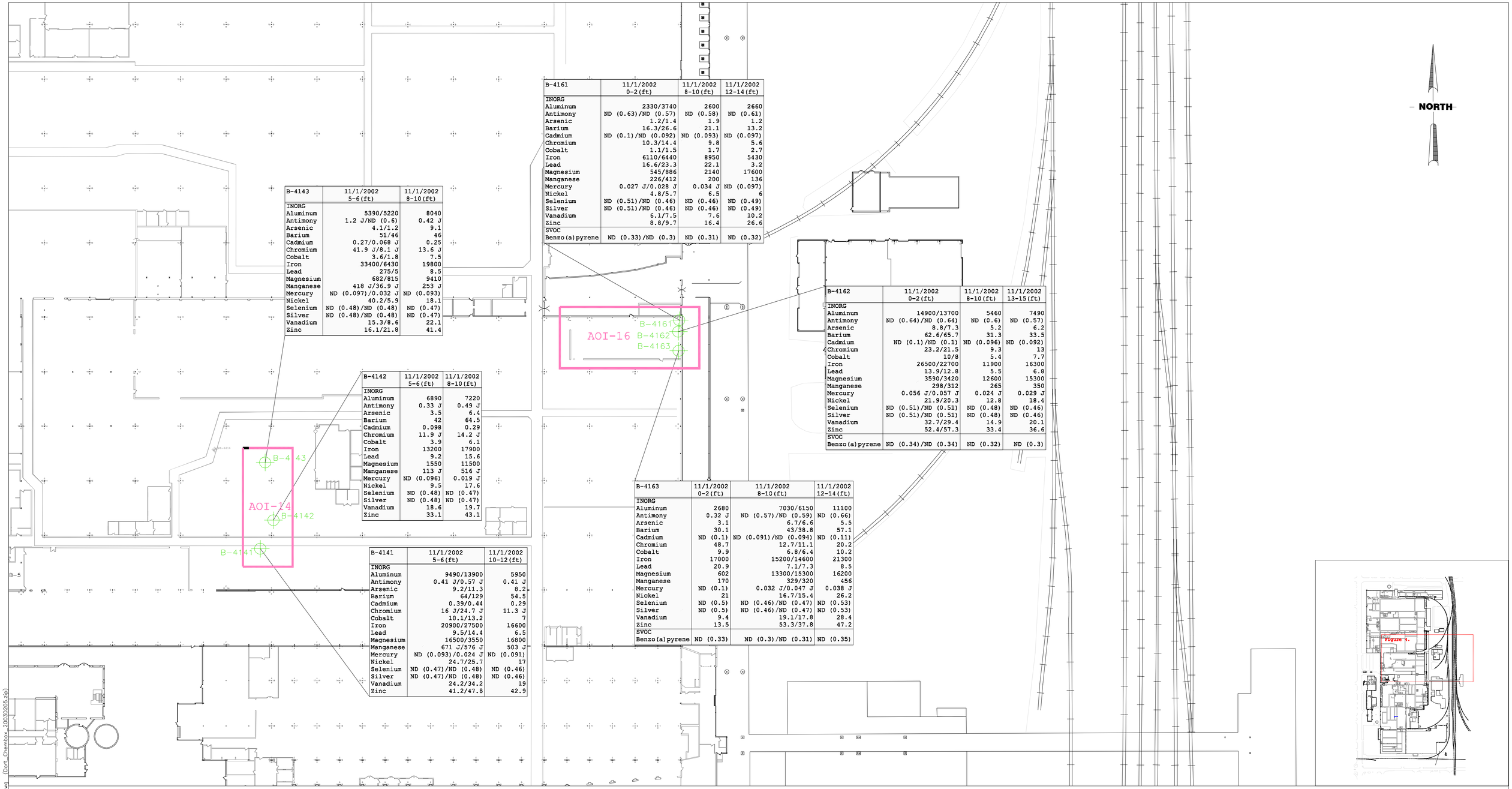

B-4161	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 12-14(ft)
INORG			
Aluminum	2330/3740	2600	2660
Antimony	ND (0.63)/ND (0.57)	ND (0.58)	ND (0.61)
Arsenic	1.2/1.4	1.9	1.2
Barium	16.3/26.6	21.1	13.2
Cadmium	ND (0.1)/ND (0.092)	ND (0.093)	ND (0.097)
Chromium	10.3/14.4	9.8	5.6
Cobalt	1.1/1.5	1.7	2.7
Iron	6110/6440	8950	5430
Lead	16.6/23.3	22.1	3.2
Magnesium	545/886	2140	17600
Manganese	226/412	200	136
Mercury	0.027 J/0.028 J	0.034 J	ND (0.097)
Nickel	4.8/5.7	6.5	6
Selenium	ND (0.51)/ND (0.46)	ND (0.46)	ND (0.49)
Silver	ND (0.51)/ND (0.46)	ND (0.46)	ND (0.49)
Vanadium	6.1/7.5	7.6	10.2
Zinc	8.8/9.7	16.4	26.6
SVOC			
Benzo(a)pyrene	ND (0.33)/ND (0.3)	ND (0.31)	ND (0.32)

B-4143	11/1/2002 5-6(ft)	11/1/2002 8-10(ft)
INORG		
Aluminum	5390/5220	8040
Antimony	1.2 J/ND (0.6)	0.42 J
Arsenic	4.1/1.2	9.1
Barium	51/46	46
Cadmium	0.27/0.068 J	0.25
Chromium	41.9 J/8.1 J	13.6 J
Cobalt	3.6/1.8	7.5
Iron	33400/6430	19800
Lead	275/5	8.5
Magnesium	682/815	9410
Manganese	418 J/36.9 J	253 J
Mercury	ND (0.097)/0.032 J	ND (0.093)
Nickel	40.2/5.9	18.1
Selenium	ND (0.48)/ND (0.48)	ND (0.47)
Silver	ND (0.48)/ND (0.48)	ND (0.47)
Vanadium	15.3/8.6	22.1
Zinc	16.1/21.8	41.4

B-4162	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 13-15(ft)
INORG			
Aluminum	14900/13700	5460	7490
Antimony	ND (0.64)/ND (0.64)	ND (0.6)	ND (0.57)
Arsenic	8.8/7.3	5.2	6.2
Barium	62.6/65.7	31.3	33.5
Cadmium	ND (0.1)/ND (0.1)	ND (0.096)	ND (0.092)
Chromium	23.2/21.5	9.3	13
Cobalt	10/8	5.4	7.7
Iron	26500/22700	11900	16300
Lead	13.9/12.8	5.5	6.8
Magnesium	3590/3420	12600	15300
Manganese	298/312	265	350
Mercury	0.056 J/0.057 J	0.024 J	0.029 J
Nickel	21.9/20.3	12.8	18.4
Selenium	ND (0.51)/ND (0.51)	ND (0.48)	ND (0.46)
Silver	ND (0.51)/ND (0.51)	ND (0.48)	ND (0.46)
Vanadium	32.7/29.4	14.9	20.1
Zinc	52.4/57.3	33.4	36.6
SVOC			
Benzo(a)pyrene	ND (0.34)/ND (0.34)	ND (0.32)	ND (0.3)

B-4142	11/1/2002 5-6(ft)	11/1/2002 8-10(ft)
INORG		
Aluminum	6890	7220
Antimony	0.33 J	0.49 J
Arsenic	3.5	6.4
Barium	42	64.5
Cadmium	0.098	0.29
Chromium	11.9 J	14.2 J
Cobalt	3.9	6.1
Iron	13200	17900
Lead	9.2	15.6
Magnesium	1550	11500
Manganese	113 J	516 J
Mercury	ND (0.096)	0.019 J
Nickel	9.5	17.6
Selenium	ND (0.48)	ND (0.47)
Silver	ND (0.48)	ND (0.47)
Vanadium	18.6	19.7
Zinc	33.1	43.1

B-4163	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 12-14(ft)
INORG			
Aluminum	2680	7030/6150	11100
Antimony	0.32 J	ND (0.57)/ND (0.59)	ND (0.66)
Arsenic	3.1	6.7/6.6	5.5
Barium	30.1	43/38.8	57.1
Cadmium	ND (0.1)	ND (0.091)/ND (0.094)	ND (0.11)
Chromium	48.7	12.7/11.1	20.2
Cobalt	9.9	6.8/6.4	10.2
Iron	17000	15200/14600	21300
Lead	20.9	7.1/7.3	8.5
Magnesium	602	13300/15300	16200
Manganese	170	329/320	456
Mercury	ND (0.1)	0.032 J/0.047 J	0.038 J
Nickel	21	16.7/15.4	26.2
Selenium	ND (0.5)	ND (0.46)/ND (0.47)	ND (0.53)
Silver	ND (0.5)	ND (0.46)/ND (0.47)	ND (0.53)
Vanadium	9.4	19.1/17.8	28.4
Zinc	13.5	53.3/37.8	47.2
SVOC			
Benzo(a)pyrene	ND (0.33)	ND (0.3)/ND (0.31)	ND (0.35)

B-4141	11/1/2002 5-6(ft)	11/1/2002 10-12(ft)
INORG		
Aluminum	9490/13900	5950
Antimony	0.41 J/0.57 J	0.41 J
Arsenic	9.2/11.3	8.2
Barium	64/129	54.5
Cadmium	0.39/0.44	0.29
Chromium	16 J/24.7 J	11.3 J
Cobalt	10.1/13.2	7
Iron	20900/27500	16600
Lead	9.5/14.4	6.5
Magnesium	16500/3550	16800
Manganese	671 J/576 J	503 J
Mercury	ND (0.093)/0.024 J	ND (0.091)
Nickel	24.7/25.7	17
Selenium	ND (0.47)/ND (0.48)	ND (0.46)
Silver	ND (0.47)/ND (0.48)	ND (0.46)
Vanadium	24.2/34.2	19
Zinc	41.2/47.8	42.9

NOTES:

1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/kg.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (U) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   NA – Not Available, associated with Pre–RFI data.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   BR – Exceeds Industrial Direct Contact Screening Criteria
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   E – Exceeds Residential Direct Contact Screening Criteria (off–Site Locations)
5. (M) after depth indicates mobile lab data.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1–Dichloroethene (1,1–DCE) are different from the toxicity values for 1,1–DCE published in IRIS. There are no detected concentrations of 1,1–DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

B-4271 Field Event #1 Boring Location

0 20 40 80 120
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT–EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

SOIL ANALYTICAL RESULTS FOR
AOI–14 PHOSPHATER AND
AOI–16 UDYLITE PLATING

SCALE: AS SHOWN

March 28, 2003

FIGURE 4A

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NORTH

B-4211	11/1/2002 0-2(ft)	11/1/2002 8.5-10(ft)	11/1/2002 10-12(ft)
INORG			
Aluminum	4480	2560	1470
Antimony	ND (0.57)	ND (0.57)	ND (0.57)
Arsenic	6.8	0.97	1
Barium	26.4	16.6	10
Cadmium	0.02 J	ND (0.092)	ND (0.091)
Chromium	7.9	4.9	3.1
Cobalt	10.7	2.2	1.4
Iron	11700 J	4850	3160 J
Lead	5.9	2.5	1.7
Magnesium	7060	12500	6960
Manganese	333	110	63.7
Mercury	0.021 J	ND (0.092)	ND (0.091)
Nickel	10.5	5.3	ND (0.91)
Selenium	ND (0.46)	ND (0.46)	ND (0.45)
Silver	ND (0.46)	ND (0.46)	ND (0.45)
Vanadium	12.7	8.4	5.4
Zinc	ND (1.8)	ND (1.8)	ND (1.8)
VOC			
1,1,1-Trichloroethane	ND (0.046)	ND (0.047)	ND (0.045)
1,1-Dichloroethane	ND (0.046)	0.09	ND (0.045)
1,1-Dichloroethene	ND (0.046)	ND (0.047)	ND (0.045)
1,2-Dichloroethane	ND (0.046)	ND (0.047)	ND (0.045)
Benzene	ND (0.046)	ND (0.047)	ND (0.045)
Chloroform (Trichloromethane)	ND (0.046)	ND (0.047)	ND (0.045)
cis-1,2-Dichloroethene	ND (0.046)	0.24	0.28
Ethylbenzene	ND (0.046)	0.12	0.099
Methylene chloride	ND (0.11)	ND (0.12)	ND (0.11)
trans-1,2-Dichloroethene	ND (0.046)	ND (0.047)	ND (0.045)
Trichloroethene	ND (0.046)	ND (0.047)	ND (0.045)
Vinyl chloride	ND (0.057)	ND (0.059)	ND (0.057)
SVOC			
Benzo(a)pyrene	ND (0.3)	ND (6.1)	ND (6)

B-4213	11/1/2002 0-2(ft)	11/1/2002 11-12(ft)	11/1/2002 12-13(ft)
INORG			
Aluminum	5100	8040	6260
Antimony	0.57	ND (0.68)	ND (0.61)
Arsenic	3.7	5.7	4.6
Barium	111	47.9	56.9
Cadmium	0.61	0.063 J	0.046 J
Chromium	34.1	12.8	13.1
Cobalt	34.9	7.6	6.5
Iron	17400	18100	14200
Lead	194	7.6	18.1
Magnesium	3100	10300	7400
Manganese	771	507	293
Mercury	0.15	ND (0.11)	0.021 J
Nickel	44.2	16.7	15.6
Selenium	ND (0.44)	ND (0.54)	ND (0.49)
Silver	ND (0.44)	ND (0.54)	ND (0.49)
Vanadium	10.1	20.4	17.3
Zinc	228	44.5	40.5
VOC			
1,1,1-Trichloroethane	ND (0.044)	ND (0.054)	ND (0.049)
1,1-Dichloroethane	0.11	0.029 J	ND (0.049)
1,1-Dichloroethene	ND (0.044)	ND (0.054)	ND (0.049)
1,2-Dichloroethane	ND (0.044)	ND (0.054)	ND (0.049)
Benzene	ND (0.044)	ND (0.054)	ND (0.049)
Chloroform (Trichloromethane)	ND (0.044)	ND (0.054)	ND (0.049)
cis-1,2-Dichloroethene	0.019 J	ND (0.054)	ND (0.049)
Ethylbenzene	0.077	ND (0.054)	ND (0.049)
Methylene chloride	ND (0.11)	ND (0.14)	ND (0.12)
trans-1,2-Dichloroethene	ND (0.044)	ND (0.054)	ND (0.049)
Trichloroethene	0.24	0.059	0.029 J
Vinyl chloride	ND (0.055)	ND (0.068)	ND (0.061)
SVOC			
Benzo(a)pyrene	ND (3.6)	ND (3.6)	ND (3.2)

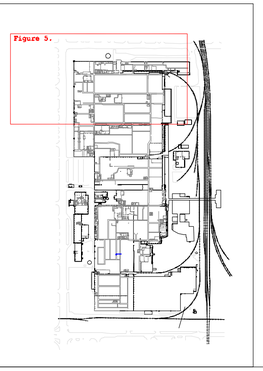
B-4182	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 17-19(ft)
INORG			
Aluminum	7420	1020	1020
Antimony	ND (0.57)	ND (0.58)	ND (0.52)
Arsenic	8.7	2.2	2
Barium	39.1	5.2	4.5
Cadmium	0.086 J	0.047 J	0.049 J
Chromium	15.4	5.5	3.2
Cobalt	6.9	1.4	1.4
Iron	18000	4080	4050
Lead	9.2	1.8	2
Magnesium	1950	4390	5170
Manganese	374	110	112
Mercury	0.026 J	ND (0.093)	ND (0.082)
Nickel	15.5	3.3	3.3
Selenium	ND (0.46)	ND (0.46)	ND (0.41)
Silver	ND (0.46)	ND (0.46)	ND (0.41)
Vanadium	19.8	4.3	4.4
Zinc	43.1	15.5	17

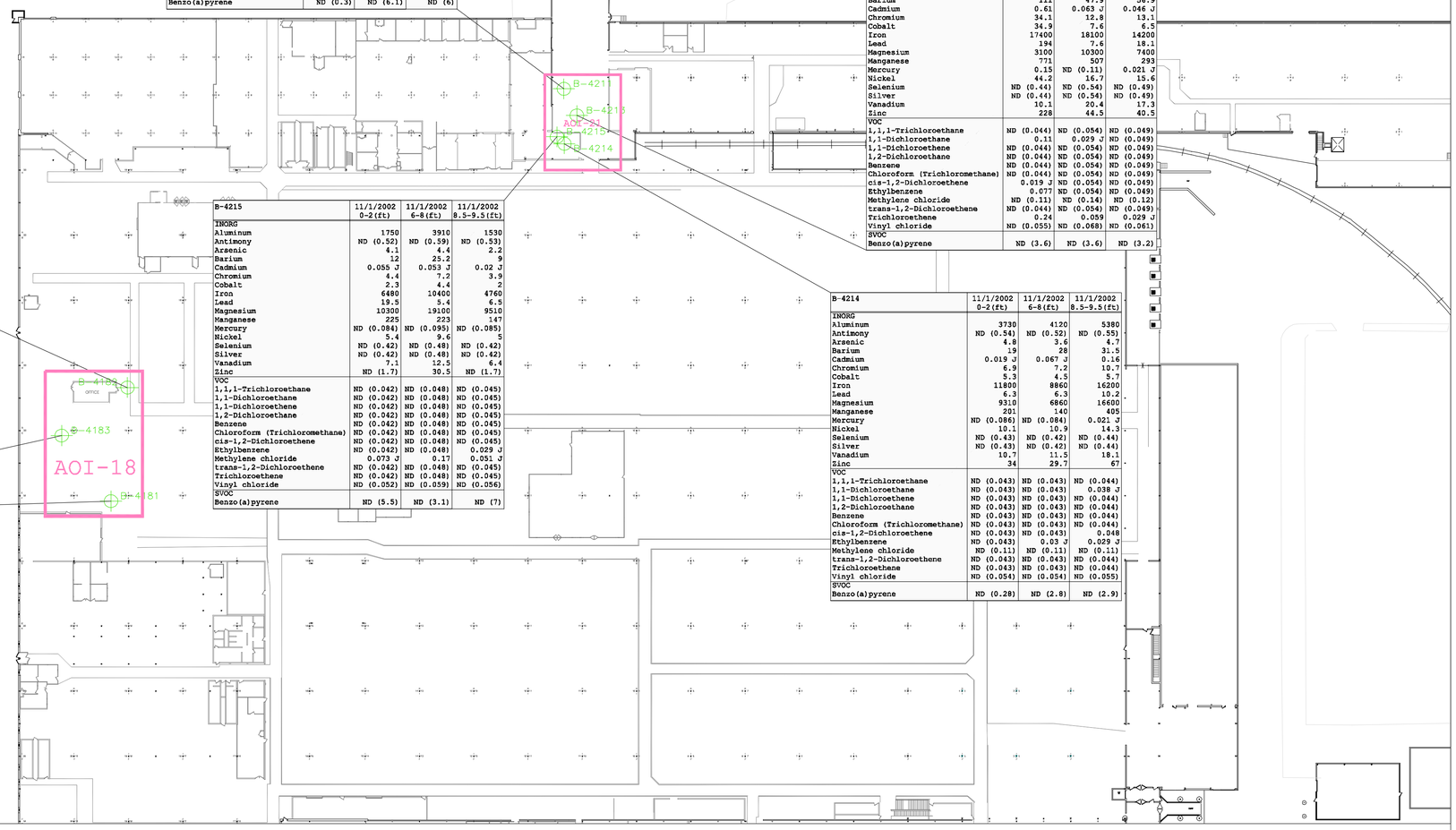
B-4215	11/1/2002 0-2(ft)	11/1/2002 6-8(ft)	11/1/2002 8.5-9.5(ft)
INORG			
Aluminum	1750	3910	1530
Antimony	ND (0.52)	ND (0.59)	ND (0.53)
Arsenic	4.1	4.4	2.2
Barium	12	25.2	9
Cadmium	0.055 J	0.053 J	0.02 J
Chromium	4.4	7.2	3.9
Cobalt	2.3	4.4	2
Iron	6480	10400	4760
Lead	19.5	5.4	6.5
Magnesium	10300	19100	9510
Manganese	225	223	147
Mercury	ND (0.084)	ND (0.095)	ND (0.085)
Nickel	5.4	9.6	5
Selenium	ND (0.42)	ND (0.48)	ND (0.42)
Silver	ND (0.42)	ND (0.48)	ND (0.42)
Vanadium	7.1	12.5	6.4
Zinc	ND (1.7)	30.5	ND (1.7)
VOC			
1,1,1-Trichloroethane	ND (0.042)	ND (0.048)	ND (0.045)
1,1-Dichloroethane	ND (0.042)	ND (0.048)	ND (0.045)
1,1-Dichloroethene	ND (0.042)	ND (0.048)	ND (0.045)
1,2-Dichloroethane	ND (0.042)	ND (0.048)	ND (0.045)
Benzene	ND (0.042)	ND (0.048)	ND (0.045)
Chloroform (Trichloromethane)	ND (0.042)	ND (0.048)	ND (0.045)
cis-1,2-Dichloroethene	ND (0.042)	ND (0.048)	ND (0.045)
Ethylbenzene	ND (0.042)	ND (0.048)	0.029 J
Methylene chloride	0.073 J	0.17	0.051 J
trans-1,2-Dichloroethene	ND (0.042)	ND (0.048)	ND (0.045)
Trichloroethene	ND (0.042)	ND (0.048)	ND (0.045)
Vinyl chloride	ND (0.052)	ND (0.059)	ND (0.056)
SVOC			
Benzo(a)pyrene	ND (5.5)	ND (3.1)	ND (7)

B-4214	11/1/2002 0-2(ft)	11/1/2002 6-8(ft)	11/1/2002 8.5-9.5(ft)
INORG			
Aluminum	3730	4120	5380
Antimony	ND (0.54)	ND (0.52)	ND (0.55)
Arsenic	4.8	3.6	4.7
Barium	19	28	31.5
Cadmium	0.019 J	0.067 J	0.16
Chromium	6.9	7.2	10.7
Cobalt	5.3	4.5	5.7
Iron	11800	8960	16200
Lead	6.3	6.3	10.2
Magnesium	9310	6860	16600
Manganese	201	140	405
Mercury	ND (0.086)	ND (0.084)	0.021 J
Nickel	10.1	10.9	14.3
Selenium	ND (0.43)	ND (0.42)	ND (0.44)
Silver	ND (0.43)	ND (0.42)	ND (0.44)
Vanadium	10.7	11.5	18.1
Zinc	34	29.7	67
VOC			
1,1,1-Trichloroethane	ND (0.043)	ND (0.043)	ND (0.044)
1,1-Dichloroethane	ND (0.043)	ND (0.043)	0.038 J
1,1-Dichloroethene	ND (0.043)	ND (0.043)	ND (0.044)
1,2-Dichloroethane	ND (0.043)	ND (0.043)	ND (0.044)
Benzene	ND (0.043)	ND (0.043)	ND (0.044)
Chloroform (Trichloromethane)	ND (0.043)	ND (0.043)	ND (0.044)
cis-1,2-Dichloroethene	ND (0.043)	ND (0.043)	0.048
Ethylbenzene	ND (0.043)	0.03 J	0.029 J
Methylene chloride	ND (0.11)	ND (0.11)	ND (0.11)
trans-1,2-Dichloroethene	ND (0.043)	ND (0.043)	ND (0.044)
Trichloroethene	ND (0.043)	ND (0.043)	ND (0.044)
Vinyl chloride	ND (0.054)	ND (0.054)	ND (0.055)
SVOC			
Benzo(a)pyrene	ND (0.28)	ND (2.8)	ND (2.9)

B-4183	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 17-19(ft)
INORG			
Aluminum	13100	1320	920
Antimony	ND (0.57)	ND (0.52)	ND (0.62)
Arsenic	10.5	2.2	1.3
Barium	73.9	7.7	4
Cadmium	0.13	0.018 J	ND (0.099)
Chromium	21.3	3.3	3.4
Cobalt	12.1	1.7	1.3
Iron	27800	4810	3320
Lead	11.4	2.3	2
Magnesium	4390	542	5990
Manganese	454	192	64.8
Mercury	0.025 J	ND (0.083)	ND (0.099)
Nickel	30.1	5	2.9
Selenium	ND (0.46)	ND (0.42)	ND (0.5)
Silver	ND (0.46)	ND (0.42)	ND (0.5)
Vanadium	30.1	5	3.6
Zinc	51.6	14.2	11.5

B-4181	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 17-19(ft)
INORG			
Aluminum	3090 J/2590	1030	1330
Antimony	ND (0.54)/ND (0.55)	ND (0.52)	ND (0.58)
Arsenic	2.9/2.7	1.7	1.1
Barium	13.4/12.8	4.4	4.3
Cadmium	0.21/0.21	0.049 J	0.069 J
Chromium	54.7/43.2	6.4	7.3
Cobalt	2.8/2.4	1.4	1.3
Iron	7780/6760	3730	3860
Lead	5.6/4.4	1.7	2.4
Magnesium	7050 J/4660	6740	8810
Manganese	130 J/130	117	87
Mercury	0.6 J/0.45	ND (0.082)	ND (0.093)
Nickel	8.4/7 J	3.4	3.3
Selenium	ND (0.43)/ND (0.44)	ND (0.41)	ND (0.47)
Silver	ND (0.43)/ND (0.44)	ND (0.41)	ND (0.47)
Vanadium	7.8/7.1	3.9	5.3
Zinc	3870/3320	18.2	15.4





NOTES:
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/kg.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   NA – Not Available, associated with Pre-RFI data.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   BR – Exceeds Industrial Direct Contact Screening Criteria
   AR – Exceeds Industrial Volatilization to Indoor Air Screening Criteria
   BDR – Exceeds Industrial Volatilization to Indoor Air and Industrial Volatilization to Ambient Air Screening Criteria
   E – Exceeds Residential Direct Contact Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

B-4271 Field Event #1 Boring Location

0 25 50 100 150
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 4OD
DORT HIGHWAY
FLINT, MICHIGAN

SOIL ANALYTICAL RESULTS FOR AOI-18 FORMER ZINC DICHROMATE PLATING LINES AND AOI-21 USED OIL UST TANKS #4024 & #4025

SCALE: AS SHOWN
March 28, 2003

FIGURE 5A

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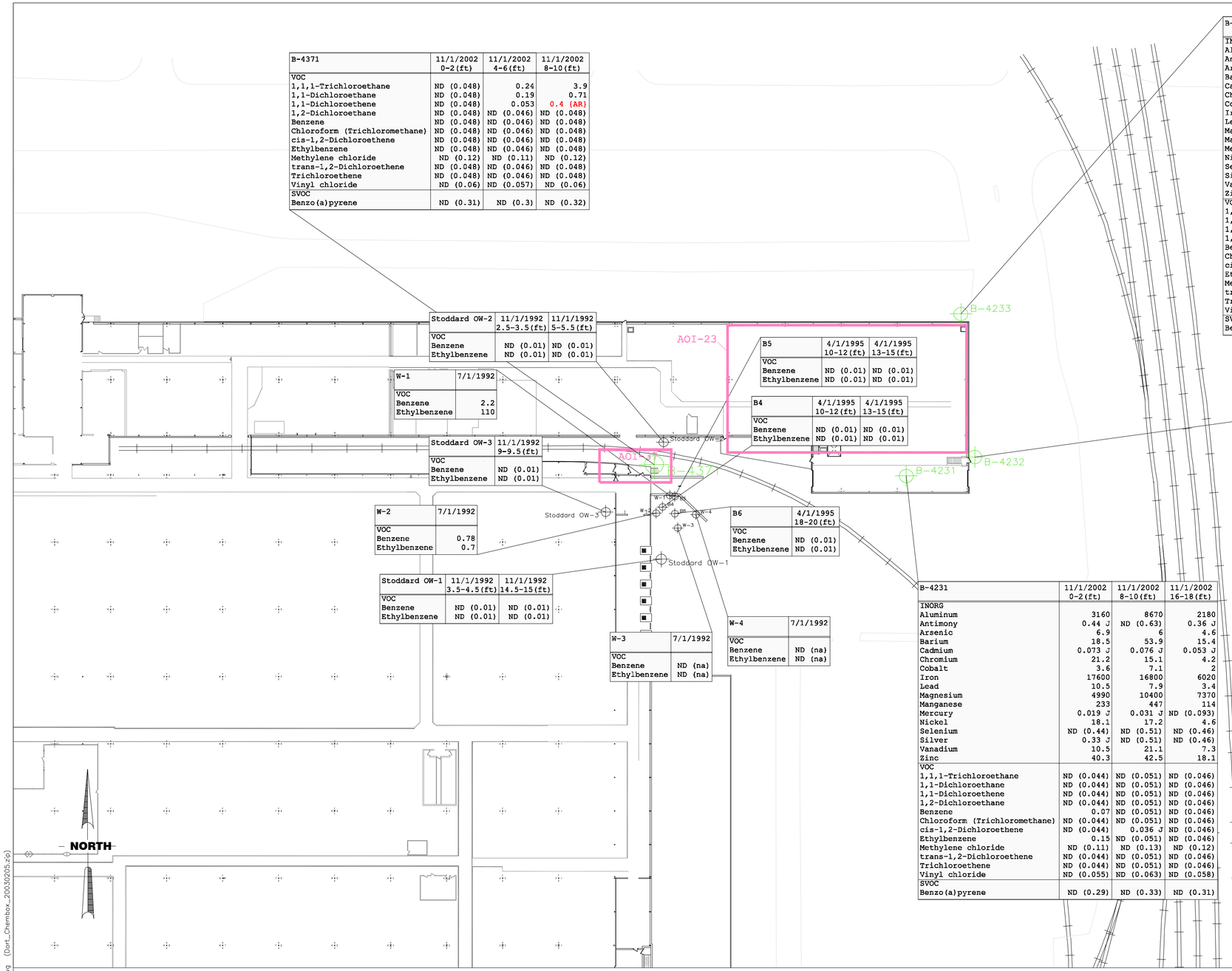


B-4371	11/1/2002 0-2(ft)	11/1/2002 4-6(ft)	11/1/2002 8-10(ft)
VOC			
1,1,1-Trichloroethane	ND (0.048)	0.24	3.9
1,1-Dichloroethane	ND (0.048)	0.19	0.71
1,1-Dichloroethene	ND (0.048)	0.053	0.4 (AR)
1,2-Dichloroethane	ND (0.048)	ND (0.046)	ND (0.048)
Benzene	ND (0.048)	ND (0.046)	ND (0.048)
Chloroform (Trichloromethane)	ND (0.048)	ND (0.046)	ND (0.048)
cis-1,2-Dichloroethene	ND (0.048)	ND (0.046)	ND (0.048)
Ethylbenzene	ND (0.048)	ND (0.046)	ND (0.048)
Methylene chloride	ND (0.12)	ND (0.11)	ND (0.12)
trans-1,2-Dichloroethene	ND (0.048)	ND (0.046)	ND (0.048)
Trichloroethene	ND (0.048)	ND (0.046)	ND (0.048)
Vinyl chloride	ND (0.06)	ND (0.057)	ND (0.06)
SVOC			
Benzo(a)pyrene	ND (0.31)	ND (0.3)	ND (0.32)

Stoddard OW-2	11/1/1992 2.5-3.5(ft)	11/1/1992 5-5.5(ft)
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

W-1	7/1/1992
VOC	
Benzene	2.2
Ethylbenzene	110

Stoddard OW-3	11/1/1992 9-9.5(ft)
VOC	
Benzene	ND (0.01)
Ethylbenzene	ND (0.01)

W-2	7/1/1992
VOC	
Benzene	0.78
Ethylbenzene	0.7

Stoddard OW-1	11/1/1992 3.5-4.5(ft)	11/1/1992 14.5-15(ft)
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

W-3	7/1/1992
VOC	
Benzene	ND (na)
Ethylbenzene	ND (na)

W-4	7/1/1992
VOC	
Benzene	ND (na)
Ethylbenzene	ND (na)

B5	4/1/1995 10-12(ft)	4/1/1995 13-15(ft)
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

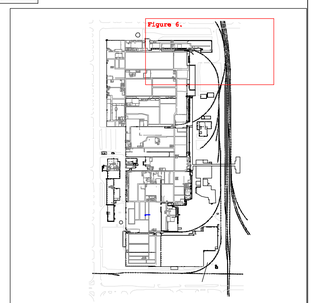
B4	4/1/1995 10-12(ft)	4/1/1995 13-15(ft)
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

B6	4/1/1995 18-20(ft)
VOC	
Benzene	ND (0.01)
Ethylbenzene	ND (0.01)

B-4233	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 18-20(ft)
INORG			
Aluminum	2390	2170	933
Antimony	ND (0.58)	ND (0.58)	ND (0.6)
Arsenic	4.2	3	3.2
Barium	12.1	9.3	3.3
Cadmium	0.071 J	0.032 J	0.098
Chromium	5	4.8	2.5
Cobalt	2.8	2.1	1.7
Iron	6710	5140	3050
Lead	9.1	4.5	2
Magnesium	7570	1500 J	7430
Manganese	171	118	86.5
Mercury	ND (0.093)	ND (0.093)	ND (0.096)
Nickel	6.4	5.1	3.2
Selenium	ND (0.46)	ND (0.46)	ND (0.48)
Silver	ND (0.46)	ND (0.46)	ND (0.48)
Vanadium	7.6	7	3.9
Zinc	35.2	19.3	16.1
VOC			
1,1,1-Trichloroethane	ND (0.046)	ND (0.047)	ND (0.048)
1,1-Dichloroethane	ND (0.046)	ND (0.047)	ND (0.048)
1,1-Dichloroethene	ND (0.046)	ND (0.047)	ND (0.048)
1,2-Dichloroethane	ND (0.046)	ND (0.047)	ND (0.048)
Benzene	ND (0.046)	ND (0.047)	ND (0.048)
Chloroform (Trichloromethane)	ND (0.046)	ND (0.047)	ND (0.048)
cis-1,2-Dichloroethene	ND (0.046)	ND (0.047)	ND (0.048)
Ethylbenzene	ND (0.046)	ND (0.047)	ND (0.048)
Methylene chloride	ND (0.12)	ND (0.12)	ND (0.12)
trans-1,2-Dichloroethene	ND (0.046)	ND (0.047)	ND (0.048)
Trichloroethene	ND (0.046)	ND (0.047)	ND (0.048)
Vinyl chloride	ND (0.058)	ND (0.059)	ND (0.06)
SVOC			
Benzo(a)pyrene	0.21 J	ND (0.31)	ND (0.32)

B-4232	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 17-19(ft)
INORG			
Aluminum	4330	1900/3840	4170
Antimony	0.39 J	ND (0.58)/ND (0.58)	ND (0.62)
Arsenic	3.6	2.8/4.2	7.6
Barium	23.2	11.4/24.5	39.8
Cadmium	ND (0.095)	ND (0.092)/ND (0.094)	ND (0.099)
Chromium	8.1	4.2/7.6	9.3
Cobalt	5.6	2.5/3.9	3.5
Iron	8890	5670/9050	8300
Lead	6.2	3.7/5.4	4.2
Magnesium	9020	6590/9500	28400
Manganese	278	142/231	270
Mercury	0.025 J	0.019 J/0.02 J	ND (0.099)
Nickel	11.2	5.6/10.1	8.9
Selenium	ND (0.47)	ND (0.46)/ND (0.47)	ND (0.5)
Silver	ND (0.47)	ND (0.46)/ND (0.47)	ND (0.5)
Vanadium	13.8	6.4/11.5	11.5
Zinc	26.8	24.8/31.1	24.2
VOC			
1,1,1-Trichloroethane	ND (0.047)	ND (0.046)/ND (0.047)	ND (0.05)
1,1-Dichloroethane	ND (0.047)	ND (0.046)/ND (0.047)	ND (0.05)
1,1-Dichloroethene	ND (0.047)	ND (0.046)/ND (0.047)	ND (0.05)
1,2-Dichloroethane	ND (0.047)	ND (0.046)/ND (0.047)	ND (0.05)
Benzene	ND (0.047)	ND (0.046)/ND (0.047)	ND (0.05)
Chloroform (Trichloromethane)	ND (0.047)	ND (0.046)/ND (0.047)	ND (0.05)
cis-1,2-Dichloroethene	ND (0.047)	ND (0.046)/ND (0.047)	ND (0.05)
Ethylbenzene	ND (0.047)	ND (0.046)/ND (0.047)	ND (0.05)
Methylene chloride	ND (0.12)	ND (0.12)/ND (0.12)	ND (0.12)
trans-1,2-Dichloroethene	ND (0.047)	ND (0.046)/ND (0.047)	ND (0.05)
Trichloroethene	ND (0.047)	ND (0.046)/ND (0.047)	ND (0.05)
Vinyl chloride	ND (0.059)	ND (0.058)/ND (0.058)	ND (0.062)
SVOC			
Benzo(a)pyrene	ND (0.31)	ND (0.3)/ND (0.31)	ND (0.33)

B-4231	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 16-18(ft)
INORG			
Aluminum	3160	8670	2180
Antimony	0.44 J	ND (0.63)	0.36 J
Arsenic	6.9	6	4.6
Barium	18.5	53.9	15.4
Cadmium	0.073 J	0.076 J	0.053 J
Chromium	21.2	15.1	4.2
Cobalt	3.6	7.1	2
Iron	17600	16800	6020
Lead	10.5	7.9	3.4
Magnesium	4990	10400	7370
Manganese	233	447	114
Mercury	0.019 J	0.031 J	ND (0.093)
Nickel	18.1	17.2	4.6
Selenium	ND (0.44)	ND (0.51)	ND (0.46)
Silver	0.33 J	ND (0.51)	ND (0.46)
Vanadium	10.5	21.1	7.3
Zinc	40.3	42.5	18.1
VOC			
1,1,1-Trichloroethane	ND (0.044)	ND (0.051)	ND (0.046)
1,1-Dichloroethane	ND (0.044)	ND (0.051)	ND (0.046)
1,1-Dichloroethene	ND (0.044)	ND (0.051)	ND (0.046)
1,2-Dichloroethane	ND (0.044)	ND (0.051)	ND (0.046)
Benzene	0.07	ND (0.051)	ND (0.046)
Chloroform (Trichloromethane)	ND (0.044)	ND (0.051)	ND (0.046)
cis-1,2-Dichloroethene	ND (0.044)	0.036 J	ND (0.046)
Ethylbenzene	0.15	ND (0.051)	ND (0.046)
Methylene chloride	ND (0.11)	ND (0.13)	ND (0.12)
trans-1,2-Dichloroethene	ND (0.044)	ND (0.051)	ND (0.046)
Trichloroethene	ND (0.044)	ND (0.051)	ND (0.046)
Vinyl chloride	ND (0.055)	ND (0.063)	ND (0.058)
SVOC			
Benzo(a)pyrene	ND (0.29)	ND (0.33)	ND (0.31)



NOTES:
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/kg.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   NA – Not Available, associated with Pre-RFI data.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   BR – Exceeds Industrial Direct Contact Screening Criteria
   AR – Exceeds Industrial Volatilization to Indoor Air Screening Criteria
   BDR – Exceeds Industrial Volatilization to Indoor Air and Industrial Volatilization to Ambient Air Screening Criteria
   E – Exceeds Residential Direct Contact Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

B-4271 Field Event #1 Boring Location

Pre-RFI Boring Location

0 20 40 80 120
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

SOIL ANALYTICAL RESULTS
FOR AOI-23 AUTOMATIC SCREW
MACHINE BASEMENT AND AOI-37
FORMER USED VISCOR UST

SCALE: AS SHOWN
March 28, 2003

FIGURE 6A

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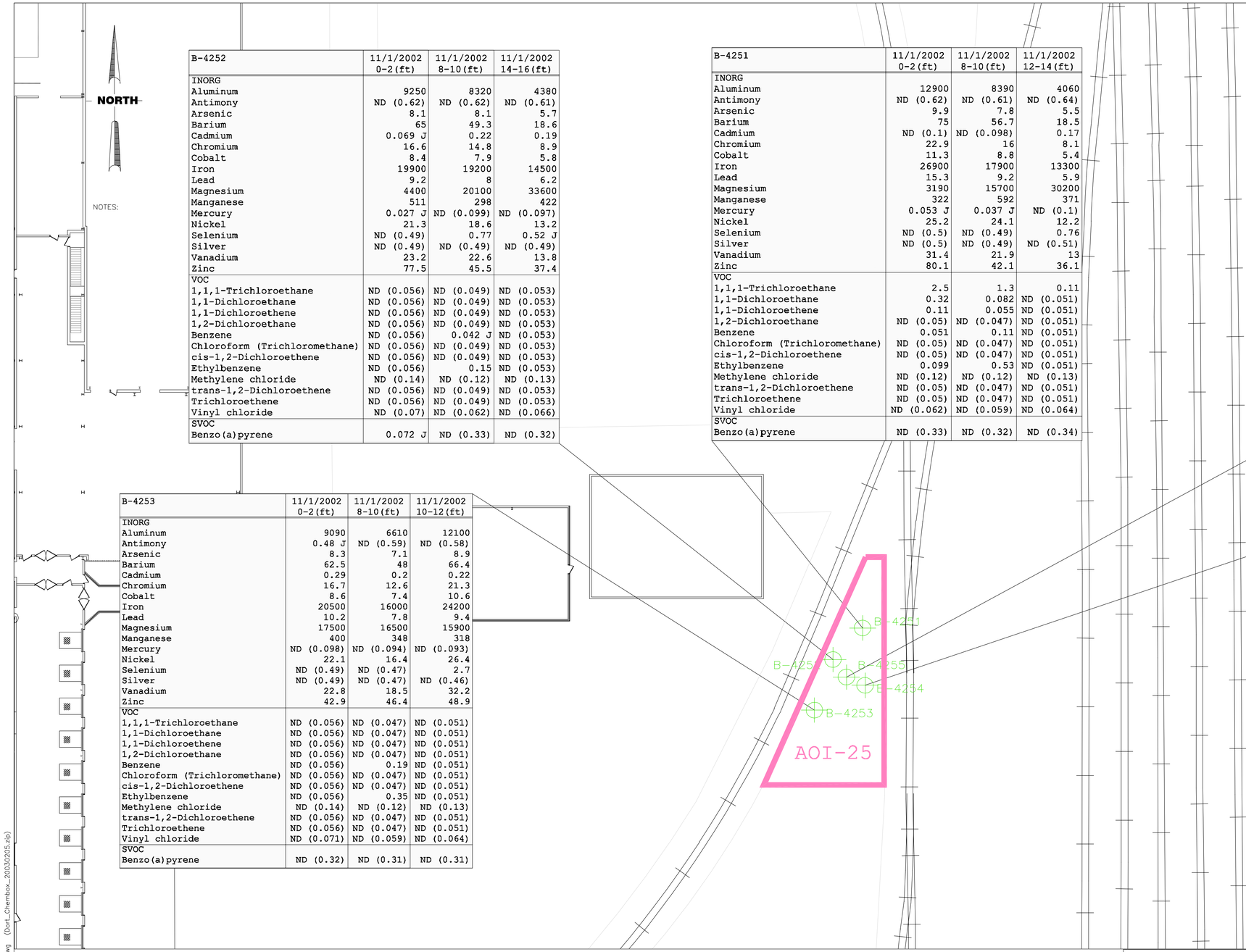


B-4252	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 14-16(ft)
INORG			
Aluminum	9250	8320	4380
Antimony	ND (0.62)	ND (0.62)	ND (0.61)
Arsenic	8.1	8.1	5.7
Barium	65	49.3	18.6
Cadmium	0.069 J	0.22	0.19
Chromium	16.6	14.8	8.9
Cobalt	8.4	7.9	5.8
Iron	19900	19200	14500
Lead	9.2	8	6.2
Magnesium	4400	20100	33600
Manganese	511	298	422
Mercury	0.027 J	ND (0.099)	ND (0.097)
Nickel	21.3	18.6	13.2
Selenium	ND (0.49)	0.77	0.52 J
Silver	ND (0.49)	ND (0.49)	ND (0.49)
Vanadium	23.2	22.6	13.8
Zinc	77.5	45.5	37.4
VOC			
1,1,1-Trichloroethane	ND (0.056)	ND (0.049)	ND (0.053)
1,1-Dichloroethane	ND (0.056)	ND (0.049)	ND (0.053)
1,1-Dichloroethene	ND (0.056)	ND (0.049)	ND (0.053)
1,2-Dichloroethane	ND (0.056)	ND (0.049)	ND (0.053)
Benzene	ND (0.056)	0.042 J	ND (0.053)
Chloroform (Trichloromethane)	ND (0.056)	ND (0.049)	ND (0.053)
cis-1,2-Dichloroethene	ND (0.056)	ND (0.049)	ND (0.053)
Ethylbenzene	ND (0.056)	0.15	ND (0.053)
Methylene chloride	ND (0.14)	ND (0.12)	ND (0.13)
trans-1,2-Dichloroethene	ND (0.056)	ND (0.049)	ND (0.053)
Trichloroethene	ND (0.056)	ND (0.049)	ND (0.053)
Vinyl chloride	ND (0.07)	ND (0.062)	ND (0.066)
SVOC			
Benzo(a)pyrene	0.072 J	ND (0.33)	ND (0.32)

B-4251	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 12-14(ft)
INORG			
Aluminum	12900	8390	4060
Antimony	ND (0.62)	ND (0.61)	ND (0.64)
Arsenic	9.9	7.8	5.5
Barium	75	56.7	18.5
Cadmium	ND (0.1)	ND (0.098)	0.17
Chromium	22.9	16	8.1
Cobalt	11.3	8.8	5.4
Iron	26900	17900	13300
Lead	15.3	9.2	5.9
Magnesium	3190	15700	30200
Manganese	322	592	371
Mercury	0.053 J	0.037 J	ND (0.1)
Nickel	25.2	24.1	12.2
Selenium	ND (0.5)	ND (0.49)	0.76
Silver	ND (0.5)	ND (0.49)	ND (0.51)
Vanadium	31.4	21.9	13
Zinc	80.1	42.1	36.1
VOC			
1,1,1-Trichloroethane	2.5	1.3	0.11
1,1-Dichloroethane	0.32	0.082	ND (0.051)
1,1-Dichloroethene	0.11	0.055	ND (0.051)
1,2-Dichloroethane	ND (0.05)	ND (0.047)	ND (0.051)
Benzene	0.051	0.11	ND (0.051)
Chloroform (Trichloromethane)	ND (0.05)	ND (0.047)	ND (0.051)
cis-1,2-Dichloroethene	ND (0.05)	ND (0.047)	ND (0.051)
Ethylbenzene	0.099	0.53	ND (0.051)
Methylene chloride	ND (0.12)	ND (0.12)	ND (0.13)
trans-1,2-Dichloroethene	ND (0.05)	ND (0.047)	ND (0.051)
Trichloroethene	ND (0.05)	ND (0.047)	ND (0.051)
Vinyl chloride	ND (0.062)	ND (0.059)	ND (0.064)
SVOC			
Benzo(a)pyrene	ND (0.33)	ND (0.32)	ND (0.34)

B-4255	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 13-15(ft)
INORG			
Aluminum	7150	7610	4660
Antimony	0.43 J	ND (0.57)	ND (0.61)
Arsenic	9.4	5.7	4.2
Barium	48.9	51.8	17.8
Cadmium	0.48	0.17	0.24
Chromium	15.9	14.4	10.4
Cobalt	9.5	7.4	5.6
Iron	22100	15700	11700
Lead	17.2	6.6	6.5
Magnesium	14200	18200	19600
Manganese	404	358	305
Mercury	0.17	ND (0.091)	0.033 J
Nickel	28.5	17.3	13.3
Selenium	ND (0.53)	ND (0.46)	ND (0.49)
Silver	ND (0.53)	ND (0.46)	ND (0.49)
Vanadium	22.7	21.8	15.6
Zinc	122	37.2	52.9
VOC			
1,1,1-Trichloroethane	4.4	0.026 J	0.18
1,1-Dichloroethane	1.5	ND (0.046)	0.063
1,1-Dichloroethene	ND (0.79)	ND (0.046)	ND (0.049)
1,2-Dichloroethane	ND (0.79)	ND (0.046)	ND (0.049)
Benzene	0.19 J	ND (0.046)	ND (0.049)
Chloroform (Trichloromethane)	ND (0.79)	ND (0.046)	ND (0.049)
cis-1,2-Dichloroethene	ND (0.79)	ND (0.046)	ND (0.049)
Ethylbenzene	0.66 J	ND (0.046)	0.068
Methylene chloride	ND (2) UJ	ND (0.11) UJ	ND (0.12) UJ
trans-1,2-Dichloroethene	ND (0.79)	ND (0.046)	ND (0.049)
Trichloroethene	ND (0.79)	ND (0.046)	ND (0.049)
Vinyl chloride	ND (0.98)	ND (0.057)	ND (0.061)
SVOC			
Benzo(a)pyrene	0.2 J	ND (0.3)	ND (0.32)

B-4253	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 10-12(ft)
INORG			
Aluminum	9090	6610	12100
Antimony	0.48 J	ND (0.59)	ND (0.58)
Arsenic	8.3	7.1	8.9
Barium	62.5	48	66.4
Cadmium	0.29	0.2	0.22
Chromium	16.7	12.6	21.3
Cobalt	8.6	7.4	10.6
Iron	20500	16000	24200
Lead	10.2	7.8	9.4
Magnesium	17500	16500	15900
Manganese	400	348	318
Mercury	ND (0.098)	ND (0.094)	ND (0.093)
Nickel	22.1	16.4	26.4
Selenium	ND (0.49)	ND (0.47)	2.7
Silver	ND (0.49)	ND (0.47)	ND (0.46)
Vanadium	22.8	18.5	32.2
Zinc	42.9	46.4	48.9
VOC			
1,1,1-Trichloroethane	ND (0.056)	ND (0.047)	ND (0.051)
1,1-Dichloroethane	ND (0.056)	ND (0.047)	ND (0.051)
1,1-Dichloroethene	ND (0.056)	ND (0.047)	ND (0.051)
1,2-Dichloroethane	ND (0.056)	ND (0.047)	ND (0.051)
Benzene	ND (0.056)	0.19	ND (0.051)
Chloroform (Trichloromethane)	ND (0.056)	ND (0.047)	ND (0.051)
cis-1,2-Dichloroethene	ND (0.056)	ND (0.047)	ND (0.051)
Ethylbenzene	ND (0.056)	0.35	ND (0.051)
Methylene chloride	ND (0.14)	ND (0.12)	ND (0.13)
trans-1,2-Dichloroethene	ND (0.056)	ND (0.047)	ND (0.051)
Trichloroethene	ND (0.056)	ND (0.047)	ND (0.051)
Vinyl chloride	ND (0.071)	ND (0.059)	ND (0.064)
SVOC			
Benzo(a)pyrene	ND (0.32)	ND (0.31)	ND (0.31)

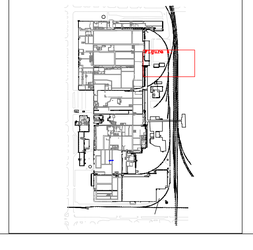
B-4254	11/1/2002 0-2(ft)	11/1/2002 8-10(ft)	11/1/2002 13-15(ft)
INORG			
Aluminum	14000	6810	8040
Antimony	0.31 J	ND (0.57)	ND (0.61)
Arsenic	9.7	6.9	7.1
Barium	103	47	46.2
Cadmium	0.2	0.2	0.26
Chromium	23.1	11.9	16.5
Cobalt	13.9	6.5	7.9
Iron	27500	15900	18500
Lead	11.5	6.6	8.9
Magnesium	3870	17000	23900
Manganese	596	269	513
Mercury	0.027 J	ND (0.091)	ND (0.097)
Nickel	29.6	14.6	17.9
Selenium	ND (0.5)	ND (0.45)	ND (0.48)
Silver	ND (0.5)	ND (0.45)	ND (0.48)
Vanadium	33.1	18.8	21.5
Zinc	54.6	41.7	49.2
VOC			
1,1,1-Trichloroethane	ND (0.05)	0.021 J	ND (0.048)
1,1-Dichloroethane	ND (0.05)	ND (0.045)	ND (0.048)
1,1-Dichloroethene	ND (0.05)	ND (0.045)	ND (0.048)
1,2-Dichloroethane	ND (0.05)	ND (0.045)	ND (0.048)
Benzene	ND (0.05)	ND (0.045)	ND (0.048)
Chloroform (Trichloromethane)	ND (0.05)	ND (0.045)	ND (0.048)
cis-1,2-Dichloroethene	ND (0.05)	ND (0.045)	ND (0.048)
Ethylbenzene	ND (0.05)	ND (0.045)	ND (0.048)
Methylene chloride	ND (0.12) UJ	ND (0.11) UJ	ND (0.12) UJ
trans-1,2-Dichloroethene	ND (0.05)	ND (0.045)	ND (0.048)
Trichloroethene	ND (0.05)	ND (0.045)	ND (0.048)
Vinyl chloride	ND (0.062)	ND (0.057)	ND (0.061)
SVOC			
Benzo(a)pyrene	ND (0.33)	ND (0.3)	ND (0.32)

1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/kg.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   NA – Not Available, associated with Pre-RFI data.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in [ ].
   BR – Exceeds Industrial Direct Contact Screening Criteria
   AR – Exceeds Industrial Volatilization to Indoor Air Screening Criteria
   BDR – Exceeds Industrial Volatilization to Indoor Air and Industrial Volatilization to Ambient Air Screening Criteria
   E – Exceeds Residential Direct Contact Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

B-4271 Field Event #1 Boring Location

0 10 20 40 60
SCALE IN FEET



HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

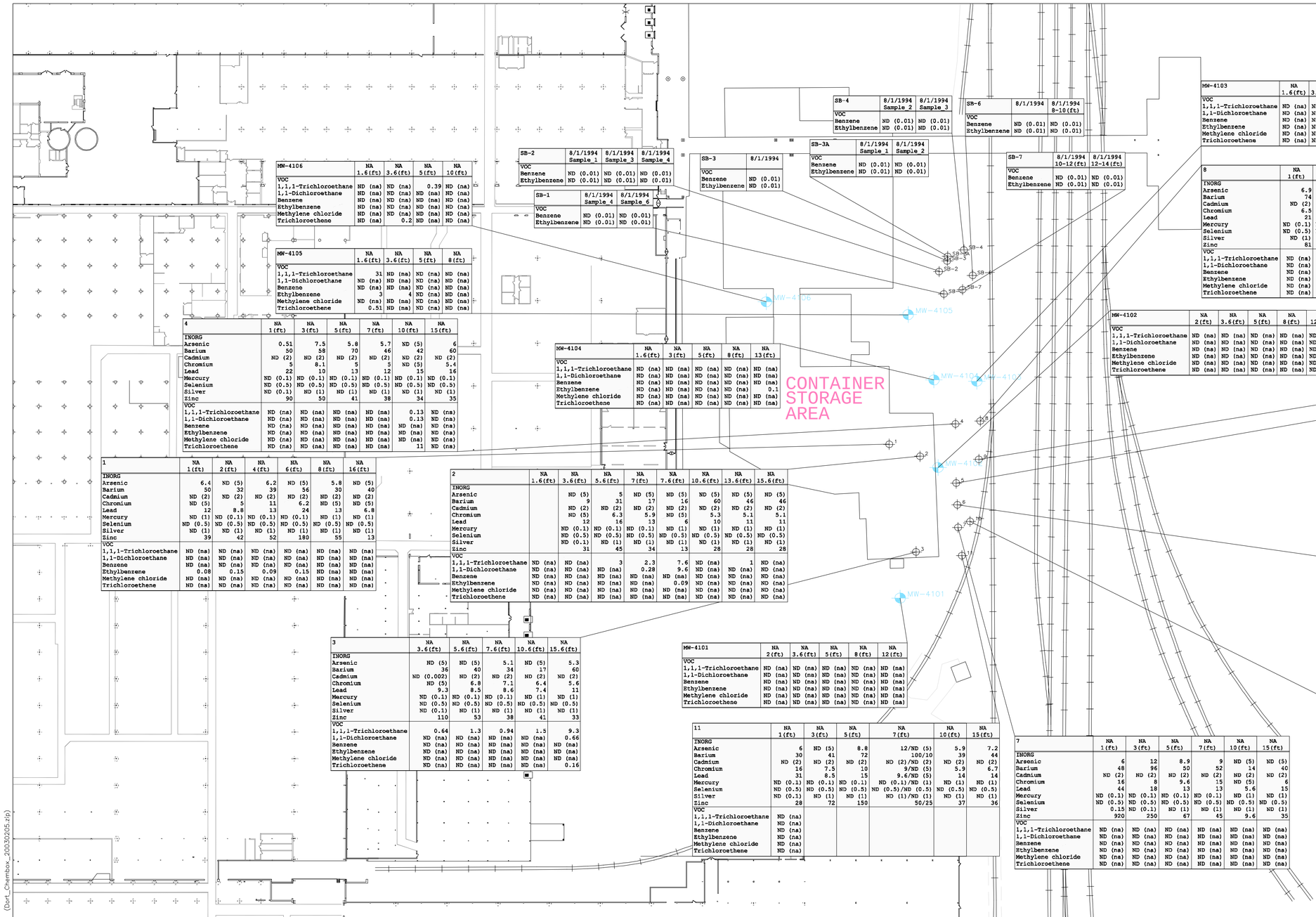
DELPHI CORPORATION
FLINT-EAST, PLANT 4OD
DORT HIGHWAY
FLINT, MICHIGAN

SOIL ANALYTICAL RESULTS
FOR AOI-25 FORMER FIRE
TRAINING AREA

SCALE: AS SHOWN
MARCH 21,2003

FIGURE 7A

G:\49017\017\posting\FE1_Soil_Posting_RCP.dwg (Dort_Chembox_20030205.zip)



MW-4106	NA 1.6(ft)	NA 3.6(ft)	NA 5(ft)	NA 10(ft)
VOC				
1,1,1-Trichloroethane	ND (na)	ND (na)	0.39	ND (na)
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	ND (na)
Benzene	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	ND (na)	ND (na)	ND (na)	ND (na)
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	ND (na)	0.2	ND (na)	ND (na)

MW-4105	NA 1.6(ft)	NA 3.6(ft)	NA 5(ft)	NA 8(ft)
VOC				
1,1,1-Trichloroethane	31	ND (na)	ND (na)	ND (na)
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	ND (na)
Benzene	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	3	4	ND (na)	ND (na)
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	0.51	ND (na)	ND (na)	ND (na)

4	NA 1(ft)	NA 3(ft)	NA 5(ft)	NA 7(ft)	NA 10(ft)	NA 15(ft)
INORG						
Arsenic	0.51	7.5	5.8	5.7	ND (5)	6
Barium	50	58	70	46	42	60
Cadmium	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Chromium	5	8.1	5	ND (5)	ND (5)	5.4
Lead	22	10	13	12	15	16
Mercury	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Selenium	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Silver	ND (0.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Zinc	90	50	41	38	34	35
VOC						
1,1,1-Trichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	0.13	ND (na)
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	0.13	ND (na)
Benzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	ND (na)	ND (na)	ND (na)	ND (na)	11	ND (na)

1	NA 1(ft)	NA 2(ft)	NA 4(ft)	NA 6(ft)	NA 8(ft)	NA 16(ft)
INORG						
Arsenic	6.4	ND (5)	6.2	ND (5)	5.8	ND (5)
Barium	50	32	39	56	30	40
Cadmium	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Chromium	ND (5)	5	11	6.2	ND (5)	ND (5)
Lead	12	8.8	13	24	13	6.8
Mercury	ND (1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1)	ND (1)
Selenium	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Silver	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Zinc	39	42	52	180	55	13
VOC						
1,1,1-Trichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Benzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	0.08	0.15	0.09	0.15	ND (na)	ND (na)
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)

2	NA 1.6(ft)	NA 3.6(ft)	NA 5.6(ft)	NA 7(ft)	NA 7.6(ft)	NA 10.6(ft)	NA 13.6(ft)	NA 15.6(ft)
INORG								
Arsenic		ND (5)	5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Barium		9	31	17	16	60	46	46
Cadmium		ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Chromium		ND (5)	6.3	5.9	ND (5)	5.3	5.1	5.1
Lead		12	16	13	6	10	11	11
Mercury		ND (0.1)	ND (0.1)	ND (0.1)	ND (1)	ND (1)	ND (1)	ND (1)
Selenium		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Silver		ND (0.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Zinc		31	45	34	13	28	28	28
VOC								
1,1,1-Trichloroethane	ND (na)	ND (na)	3	2.3	7.6	ND (na)	1	ND (na)
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	0.28	9.6	ND (na)	ND (na)	ND (na)
Benzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	ND (na)	ND (na)	ND (na)	ND (na)	0.09	ND (na)	ND (na)	ND (na)
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)

3	NA 3.6(ft)	NA 5.6(ft)	NA 7.6(ft)	NA 10.6(ft)	NA 15.6(ft)
INORG					
Arsenic	ND (5)	ND (5)	5.1	ND (5)	5.3
Barium	36	40	34	17	60
Cadmium	ND (0.002)	ND (2)	ND (2)	ND (2)	ND (2)
Chromium	ND (5)	6.8	7.1	6.4	5.6
Lead	9.3	8.5	8.6	7.4	11
Mercury	ND (0.1)	ND (0.1)	ND (0.1)	ND (1)	ND (1)
Selenium	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Silver	ND (0.1)	ND (1)	ND (1)	ND (1)	ND (1)
Zinc	110	53	38	41	33
VOC					
1,1,1-Trichloroethane	0.64	1.3	0.94	1.5	9.3
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	0.66
Benzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	ND (na)	ND (na)	ND (na)	ND (na)	0.16

SB-2	8/1/1994 Sample 1	8/1/1994 Sample 3	8/1/1994 Sample 4
VOC			
Benzene	ND (0.01)	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)	ND (0.01)

SB-1	8/1/1994 Sample 4	8/1/1994 Sample 6
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

SB-3	8/1/1994
VOC	
Benzene	ND (0.01)
Ethylbenzene	ND (0.01)

SB-4	8/1/1994 Sample 2	8/1/1994 Sample 3
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

SB-3A	8/1/1994 Sample 1	8/1/1994 Sample 2
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

SB-6	8/1/1994	8/1/1994 8-10(ft)
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

SB-7	8/1/1994 10-12(ft)	8/1/1994 12-14(ft)
VOC		
Benzene	ND (0.01)	ND (0.01)
Ethylbenzene	ND (0.01)	ND (0.01)

MW-4104	NA 1.6(ft)	NA 3(ft)	NA 5(ft)	NA 8(ft)	NA 13(ft)
VOC					
1,1,1-Trichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Benzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	ND (na)	ND (na)	ND (na)	ND (na)	0.1
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)

MW-4101	NA 2(ft)	NA 3.6(ft)	NA 5(ft)	NA 8(ft)	NA 12(ft)
VOC					
1,1,1-Trichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Benzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)

11	NA 1(ft)	NA 3(ft)	NA 5(ft)	NA 7(ft)	NA 10(ft)	NA 15(ft)
INORG						
Arsenic	6	ND (5)	8.8	12/ND (5)	5.9	7.2
Barium	30	41	72	100/10	39	44
Cadmium	ND (2)	ND (2)	ND (2)	ND (2)/ND (2)	ND (2)	ND (2)
Chromium	16	7.5	10	9/ND (5)	5.9	6.7
Lead	31	8.5	15	9.6/ND (5)	14	14
Mercury	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)/ND (1)	ND (1)	ND (1)
Selenium	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)/ND (0.5)	ND (0.5)	ND (0.5)
Silver	ND (0.1)	ND (1)	ND (1)	ND (1)/ND (1)	ND (1)	ND (1)
Zinc	28	72	150	50/25	37	36
VOC						
1,1,1-Trichloroethane	ND (na)					
1,1-Dichloroethane	ND (na)					
Benzene	ND (na)					
Ethylbenzene	ND (na)					
Methylene chloride	ND (na)					
Trichloroethene	ND (na)					

7	NA 1(ft)	NA 3(ft)	NA 5(ft)	NA 7(ft)	NA 10(ft)	NA 15(ft)
INORG						
Arsenic	6	12	8.9	9	ND (5)	ND (5)
Barium	48	96	50	52	14	40
Cadmium	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Chromium	16	8	9.6	15	ND (5)	6
Lead	44	18	13	13	5.6	15
Mercury	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1)	ND (1)
Selenium	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Silver	0.15	ND (0.1)	ND (1)	ND (1)	ND (1)	ND (1)
Zinc	920	250	67	45	9.6	35
VOC						
1,1,1-Trichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Benzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)

MW-4103	NA 1.6(ft)	NA 3.6(ft)	NA 5(ft)	NA 8(ft)	NA 12(ft)
VOC					
1,1,1-Trichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Benzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)

8	NA 1(ft)	NA 3(ft)	NA 5(ft)	NA 7(ft)	NA 10(ft)	NA 15(ft)
INORG						
Arsenic	6.9	5.9	ND (5)	ND (5)/ND (5)	ND (5)	5.4
Barium	74	30	21	65/65	130	110
Cadmium	ND (2)	ND (2)	ND (2)	ND (2)/ND (2)	ND (2)	ND (2)
Chromium	6.5	ND (5)	ND (5)	7/ND (5)	8.1	5.3
Lead	21	18	8.7	13/12	17	18
Mercury	ND (0.1)	ND (0.1)	ND (1)	ND (1)/ND (1)	ND (1)	ND (1)
Selenium	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)/ND (0.5)	ND (0.5)	ND (0.5)
Silver	ND (1)	ND (1)	ND (1)	ND (1)/ND (1)	ND (1)	ND (1)
Zinc	81	130	28	39/24	39	32
VOC						
1,1,1-Trichloroethane	ND (na)					
1,1-Dichloroethane	ND (na)					
Benzene	ND (na)					
Ethylbenzene	ND (na)					
Methylene chloride	ND (na)					
Trichloroethene	ND (na)					

MW-4102	NA 2(ft)	NA 3.6(ft)	NA 5(ft)	NA 8(ft)	NA 12(ft)
VOC					
1,1,1-Trichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Benzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)

9	NA 3(ft)	NA 5(ft)	NA 7(ft)	NA 10(ft)	NA 15(ft)
INORG					
Arsenic	ND (5)	ND (5)	5.4	ND (5)/ND (5)	6.1
Barium	32	29	48	19/16	34
Cadmium	ND (2)	ND (2)	ND (2)	ND (2)/ND (2)	ND (2)
Chromium	ND (5)	ND (5)	7.8	ND (5)/ND (5)	5.9
Lead	14	13	15	10/14	14
Mercury	ND (0.1)	ND (0.1)	ND (0.1)	ND (1)/ND (1)	ND (1)
Selenium	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)/ND (0.5)	ND (0.5)
Silver	ND (1)	ND (1)	ND (1)	ND (1)/ND (1)	ND (1)
Zinc	88	140	140	47/35	38

5	NA 1(ft)	NA 3(ft)	NA 5(ft)	NA 7(ft)	NA 10(ft)	NA 15(ft)
INORG						
Arsenic	ND (5)	7.3	6	6.6	5.7	6
Barium	38	72	18	30	10	32
Cadmium	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Chromium	68	8.7	5.1	5.5	5.8	ND (5)
Lead	19	11	13	13	16	15
Mercury	ND (0.1)	ND (0.1)	ND (0.1)	ND (1)	ND (1)	ND (1)
Selenium	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Silver	ND (0.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Zinc	95	37	34	33	40	30
VOC						
1,1,1-Trichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Benzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	ND (na)	ND (na)	ND (na)	ND (na)	12	ND (na)

6	NA 1.6(ft)	NA 3(ft)	NA 5(ft)	NA 7(ft)	NA 10(ft)	NA 15(ft)
INORG						
Arsenic	6.7	7.4	5.6	6.2	6.3	5.8
Barium	74	91	65	90	39	42
Cadmium	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Chromium	68	13	11	7.2	6	6.6
Lead	27	46	22	26	15	14
Mercury	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1)	ND (1)
Selenium	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Silver	ND (0.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Zinc	390	660	110	380	74	36
VOC						
1,1,1-Trichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
1,1-Dichloroethane	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Benzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Ethylbenzene	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Methylene chloride	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)	ND (na)
Trichloroethene	ND (na)	ND (na)	ND (na)	ND (na)	2.2	ND (na)

10	NA 1(ft)	NA 3(ft)	NA 7(ft)	NA 10(ft)	NA 15(ft)
INORG					
Arsenic	6.4	ND (5)/ND (5)	5.9	ND (5)/ND (5)	5.2
Barium	30	27/48	54	24/46	22
Cadmium	ND (2)	ND (2)/ND (2)	ND (2)	ND (2)/ND (2)	ND (2)
Chromium	ND (5)	ND (5)/7.9	6.9	ND (5)/ND (5)	5.2
Lead	21	5.6/8.2	13	6.9/13	14
Mercury	ND (0.1)	ND (0.1)/ND (0.1)	ND (0.1)	ND (1)/ND (1)	ND (1)
Selenium	ND (0.5)	ND (0.5)/ND (0.5)	ND (0.5)	ND (0.5)/ND (0.5)	ND (0.5)
Silver	ND (1)	ND (1)/ND (1)	ND (1)	ND (1)/ND (1)	ND (1)
Zinc	100	21/26	37	15/29	40
VOC					
1,1,1-Trichloroethane	ND (na)				
1,1-Dichloroethane	ND (na)				
Benzene	ND (na)				
Ethylbenzene	ND (na)				
Methylene chloride	ND (na)				
Trichloroethene	ND (na)				

NOTES:

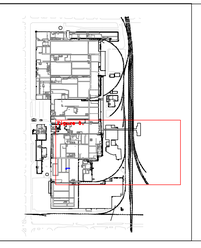
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/kg.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   NA – Not Available, associated with Pre-RFI data.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   BR – Exceeds Industrial Direct Contact Screening Criteria
   AR – Exceeds Industrial Volatilization to Indoor Air Screening Criteria
   BDR – Exceeds Industrial Volatilization to Indoor Air and Industrial Volatilization to Ambient Air Screening Criteria
   E – Exceeds Residential Direct Contact Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

Pre-RFI Boring Location

MW-4107 Monitoring Well (First Saturated Zone)

0 25 50 100 150
SCALE IN FEET



HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 4OD
DORT HIGHWAY
FLINT, MICHIGAN

SOIL ANALYTICAL RESULTS
FOR AOI-26 CONTAINER STORAGE
AREA

SCALE: AS SHOWN

March 28, 2003

FIGURE 8A

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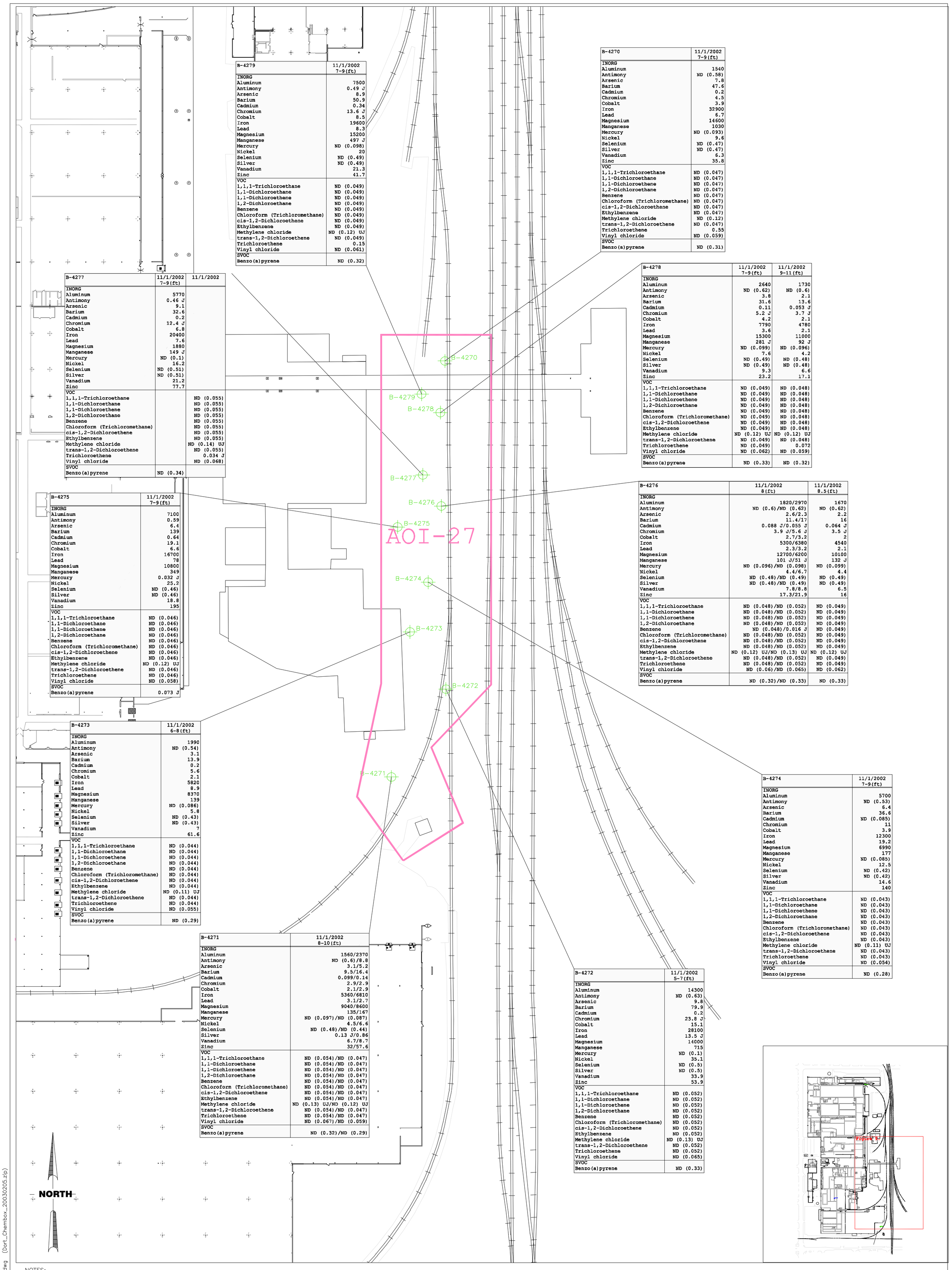

B-4279	11/1/2002 7-9(ft)
INORG	
Aluminum	7500
Antimony	0.49 J
Arsenic	8.9
Barium	50.9
Cadmium	0.34
Chromium	13.6 J
Cobalt	8.5
Iron	19600
Lead	8.3
Magnesium	15200
Manganese	497 J
Mercury	ND (0.098)
Nickel	20
Selenium	ND (0.49)
Silver	ND (0.49)
Vanadium	21.3
Zinc	41.7
VOC	
1,1,1-Trichloroethane	ND (0.049)
1,1-Dichloroethane	ND (0.049)
1,1-Dichloroethene	ND (0.049)
1,2-Dichloroethane	ND (0.049)
Benzene	ND (0.049)
Chloroform (Trichloromethane)	ND (0.049)
cis-1,2-Dichloroethene	ND (0.049)
Ethylbenzene	ND (0.049)
Methylene chloride	ND (0.12) UJ
trans-1,2-Dichloroethene	ND (0.049)
Trichloroethene	0.15
Vinyl chloride	ND (0.061)
SVOC	
Benzo(a)pyrene	ND (0.32)

B-4270	11/1/2002 7-9(ft)
INORG	
Aluminum	1540
Antimony	ND (0.58)
Arsenic	7.8
Barium	47.6
Cadmium	0.2
Chromium	4.5
Cobalt	3.9
Iron	32900
Lead	6.7
Magnesium	14600
Manganese	1030
Mercury	ND (0.093)
Nickel	9.6
Selenium	ND (0.47)
Silver	ND (0.47)
Vanadium	6.3
Zinc	35.8
VOC	
1,1,1-Trichloroethane	ND (0.047)
1,1-Dichloroethane	ND (0.047)
1,1-Dichloroethene	ND (0.047)
1,2-Dichloroethane	ND (0.047)
Benzene	ND (0.047)
Chloroform (Trichloromethane)	ND (0.047)
cis-1,2-Dichloroethene	ND (0.047)
Ethylbenzene	ND (0.047)
Methylene chloride	ND (0.12)
trans-1,2-Dichloroethene	ND (0.047)
Trichloroethene	0.55
Vinyl chloride	ND (0.059)
SVOC	
Benzo(a)pyrene	ND (0.31)

B-4277	11/1/2002 7-9(ft)	11/1/2002
INORG		
Aluminum	5770	
Antimony	0.46 J	
Arsenic	9.1	
Barium	32.6	
Cadmium	0.2	
Chromium	12.4 J	
Cobalt	6.8	
Iron	20400	
Lead	7.6	
Magnesium	1880	
Manganese	149 J	
Mercury	ND (0.1)	
Nickel	16.2	
Selenium	ND (0.51)	
Silver	ND (0.51)	
Vanadium	21.2	
Zinc	77.7	
VOC		
1,1,1-Trichloroethane		ND (0.055)
1,1-Dichloroethane		ND (0.055)
1,1-Dichloroethene		ND (0.055)
1,2-Dichloroethane		ND (0.055)
Benzene		ND (0.055)
Chloroform (Trichloromethane)		ND (0.055)
cis-1,2-Dichloroethene		ND (0.055)
Ethylbenzene		ND (0.055)
Methylene chloride		ND (0.14) UJ
trans-1,2-Dichloroethene		ND (0.055)
Trichloroethene		0.034 J
Vinyl chloride		ND (0.068)
SVOC		
Benzo(a)pyrene	ND (0.34)	

B-4278	11/1/2002 7-9(ft)	11/1/2002 9-11(ft)
INORG		
Aluminum	2640	1730
Antimony	ND (0.62)	ND (0.6)
Arsenic	3.8	2.1
Barium	31.6	13.6
Cadmium	0.11	0.053 J
Chromium	5.2 J	3.7 J
Cobalt	4.2	2.1
Iron	7790	4780
Lead	3.6	2.1
Magnesium	15300	11000
Manganese	281 J	92 J
Mercury	ND (0.099)	ND (0.096)
Nickel	7.6	4.2
Selenium	ND (0.49)	ND (0.48)
Silver	ND (0.49)	ND (0.48)
Vanadium	9.3	6.6
Zinc	23.2	17.1
VOC		
1,1,1-Trichloroethane	ND (0.049)	ND (0.048)
1,1-Dichloroethane	ND (0.049)	ND (0.048)
1,1-Dichloroethene	ND (0.049)	ND (0.048)
1,2-Dichloroethane	ND (0.049)	ND (0.048)
Benzene	ND (0.049)	ND (0.048)
Chloroform (Trichloromethane)	ND (0.049)	ND (0.048)
cis-1,2-Dichloroethene	ND (0.049)	ND (0.048)
Ethylbenzene	ND (0.049)	ND (0.048)
Methylene chloride	ND (0.12) UJ	ND (0.12) UJ
trans-1,2-Dichloroethene	ND (0.049)	ND (0.048)
Trichloroethene	ND (0.049)	0.072
Vinyl chloride	ND (0.062)	ND (0.059)
SVOC		
Benzo(a)pyrene	ND (0.33)	ND (0.32)

B-4275	11/1/2002 7-9(ft)
INORG	
Aluminum	7100
Antimony	0.59
Arsenic	6.4
Barium	139
Cadmium	0.64
Chromium	19.1
Cobalt	6.6
Iron	16700
Lead	78
Magnesium	10800
Manganese	349
Mercury	0.032 J
Nickel	25.2
Selenium	ND (0.46)
Silver	ND (0.46)
Vanadium	18.8
Zinc	195
VOC	
1,1,1-Trichloroethane	ND (0.046)
1,1-Dichloroethane	ND (0.046)
1,1-Dichloroethene	ND (0.046)
1,2-Dichloroethane	ND (0.046)
Benzene	ND (0.046)
Chloroform (Trichloromethane)	ND (0.046)
cis-1,2-Dichloroethene	ND (0.046)
Ethylbenzene	ND (0.046)
Methylene chloride	ND (0.12) UJ
trans-1,2-Dichloroethene	ND (0.046)
Trichloroethene	ND (0.046)
Vinyl chloride	ND (0.058)
SVOC	
Benzo(a)pyrene	0.073 J

B-4276	11/1/2002 8(ft)	11/1/2002 8.5(ft)
INORG		
Aluminum	1820/2970	1670
Antimony	ND (0.6)/ND (0.62)	ND (0.62)
Arsenic	2.6/2.3	2.2
Barium	11.4/17	16
Cadmium	0.088 J/0.055 J	0.064 J
Chromium	3.9 J/5.6 J	3.5 J
Cobalt	2.7/3.2	2
Iron	5300/6380	4540
Lead	2.3/3.2	2.1
Magnesium	12700/6200	10100
Manganese	101 J/51 J	132 J
Mercury	ND (0.096)/ND (0.098)	ND (0.099)
Nickel	4.4/6.7	4.4
Selenium	ND (0.48)/ND (0.49)	ND (0.49)
Silver	ND (0.48)/ND (0.49)	ND (0.49)
Vanadium	7.8/8.8	6.5
Zinc	17.3/21.9	16
VOC		
1,1,1-Trichloroethane	ND (0.048)/ND (0.052)	ND (0.049)
1,1-Dichloroethane	ND (0.048)/ND (0.052)	ND (0.049)
1,1-Dichloroethene	ND (0.048)/ND (0.052)	ND (0.049)
1,2-Dichloroethane	ND (0.048)/ND (0.052)	ND (0.049)
Benzene	ND (0.048)/0.016 J	ND (0.049)
Chloroform (Trichloromethane)	ND (0.048)/ND (0.052)	ND (0.049)
cis-1,2-Dichloroethene	ND (0.048)/ND (0.052)	ND (0.049)
Ethylbenzene	ND (0.048)/ND (0.052)	ND (0.049)
Methylene chloride	ND (0.12) UJ/ND (0.13) UJ	ND (0.12) UJ
trans-1,2-Dichloroethene	ND (0.048)/ND (0.052)	ND (0.049)
Trichloroethene	ND (0.048)/ND (0.052)	ND (0.049)
Vinyl chloride	ND (0.06)/ND (0.065)	ND (0.062)
SVOC		
Benzo(a)pyrene	ND (0.32)/ND (0.33)	ND (0.33)

B-4273	11/1/2002 6-8(ft)
INORG	
Aluminum	1990
Antimony	ND (0.54)
Arsenic	3.1
Barium	13.9
Cadmium	0.2
Chromium	5.6
Cobalt	2.1
Iron	5820
Lead	8.9
Magnesium	8370
Manganese	139
Mercury	ND (0.086)
Nickel	5.8
Selenium	ND (0.43)
Silver	ND (0.43)
Vanadium	7
Zinc	61.6
VOC	
1,1,1-Trichloroethane	ND (0.044)
1,1-Dichloroethane	ND (0.044)
1,1-Dichloroethene	ND (0.044)
1,2-Dichloroethane	ND (0.044)
Benzene	ND (0.044)
Chloroform (Trichloromethane)	ND (0.044)
cis-1,2-Dichloroethene	ND (0.044)
Ethylbenzene	ND (0.044)
Methylene chloride	ND (0.11) UJ
trans-1,2-Dichloroethene	ND (0.044)
Trichloroethene	ND (0.044)
Vinyl chloride	ND (0.055)
SVOC	
Benzo(a)pyrene	ND (0.29)

B-4274	11/1/2002 7-9(ft)
INORG	
Aluminum	5700
Antimony	ND (0.53)
Arsenic	6.4
Barium	36.6
Cadmium	ND (0.085)
Chromium	11
Cobalt	3.9
Iron	12300
Lead	19.2
Magnesium	6990
Manganese	177
Mercury	ND (0.085)
Nickel	12.5
Selenium	ND (0.42)
Silver	ND (0.42)
Vanadium	14.6
Zinc	140
VOC	
1,1,1-Trichloroethane	ND (0.043)
1,1-Dichloroethane	ND (0.043)
1,1-Dichloroethene	ND (0.043)
1,2-Dichloroethane	ND (0.043)
Benzene	ND (0.043)
Chloroform (Trichloromethane)	ND (0.043)
cis-1,2-Dichloroethene	ND (0.043)
Ethylbenzene	ND (0.043)
Methylene chloride	ND (0.11) UJ
trans-1,2-Dichloroethene	ND (0.043)
Trichloroethene	ND (0.043)
Vinyl chloride	ND (0.054)
SVOC	
Benzo(a)pyrene	ND (0.28)

B-4271	11/1/2002 8-10(ft)
INORG	
Aluminum	1560/2370
Antimony	ND (0.6)/8.8
Arsenic	3.1/5.2
Barium	9.5/16.4
Cadmium	0.099/0.14
Chromium	2.9/2.9
Cobalt	2.1/2.9
Iron	5360/6810
Lead	3.1/2.7
Magnesium	9040/8600
Manganese	135/167
Mercury	ND (0.097)/ND (0.087)
Nickel	4.5/6.6
Selenium	ND (0.48)/ND (0.44)
Silver	0.13 J/0.86
Vanadium	6.7/8.7
Zinc	32/57.6
VOC	
1,1,1-Trichloroethane	ND (0.054)/ND (0.047)
1,1-Dichloroethane	ND (0.054)/ND (0.047)
1,1-Dichloroethene	ND (0.054)/ND (0.047)
1,2-Dichloroethane	ND (0.054)/ND (0.047)
Benzene	ND (0.054)/ND (0.047)
Chloroform (Trichloromethane)	ND (0.054)/ND (0.047)
cis-1,2-Dichloroethene	ND (0.054)/ND (0.047)
Ethylbenzene	ND (0.054)/ND (0.047)
Methylene chloride	ND (0.13) UJ/ND (0.12) UJ
trans-1,2-Dichloroethene	ND (0.054)/ND (0.047)
Trichloroethene	ND (0.054)/ND (0.047)
Vinyl chloride	ND (0.067)/ND (0.059)
SVOC	
Benzo(a)pyrene	ND (0.32)/ND (0.29)

B-4272	11/1/2002 5-7(ft)
INORG	
Aluminum	14300
Antimony	ND (0.63)
Arsenic	9.8
Barium	79.9
Cadmium	0.2
Chromium	23.8 J
Cobalt	15.1
Iron	28100
Lead	13.5 J
Magnesium	14000
Manganese	715
Mercury	ND (0.1)
Nickel	35.1
Selenium	ND (0.5)
Silver	ND (0.5)
Vanadium	33.9
Zinc	53.9
VOC	
1,1,1-Trichloroethane	ND (0.052)
1,1-Dichloroethane	ND (0.052)
1,1-Dichloroethene	ND (0.052)
1,2-Dichloroethane	ND (0.052)
Benzene	ND (0.052)
Chloroform (Trichloromethane)	ND (0.052)
cis-1,2-Dichloroethene	ND (0.052)
Ethylbenzene	ND (0.052)
Methylene chloride	ND (0.13) UJ
trans-1,2-Dichloroethene	ND (0.052)
Trichloroethene	ND (0.052)
Vinyl chloride	ND (0.065)
SVOC	
Benzo(a)pyrene	ND (0.33)

NOTES:

1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/kg.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   NA – Not Available, associated with Pre-RFI data.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   BR – Exceeds Industrial Direct Contact Screening Criteria
   AR – Exceeds Industrial Volatilization to Indoor Air Screening Criteria
   BDR – Exceeds Industrial Volatilization to Indoor Air and Industrial Volatilization to Ambient Air Screening Criteria
   E – Exceeds Residential Direct Contact Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

B-4271 Field Event #1 Boring Location

0 25 50 100 150

SCALE IN FEET

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

SOIL ANALYTICAL RESULTS FOR AOI-27 PUMP HOUSE/LIFT STATION AND EASTERN PROCESS SEWER

SCALE: AS SHOWN

March 28, 2003

FIGURE 9A

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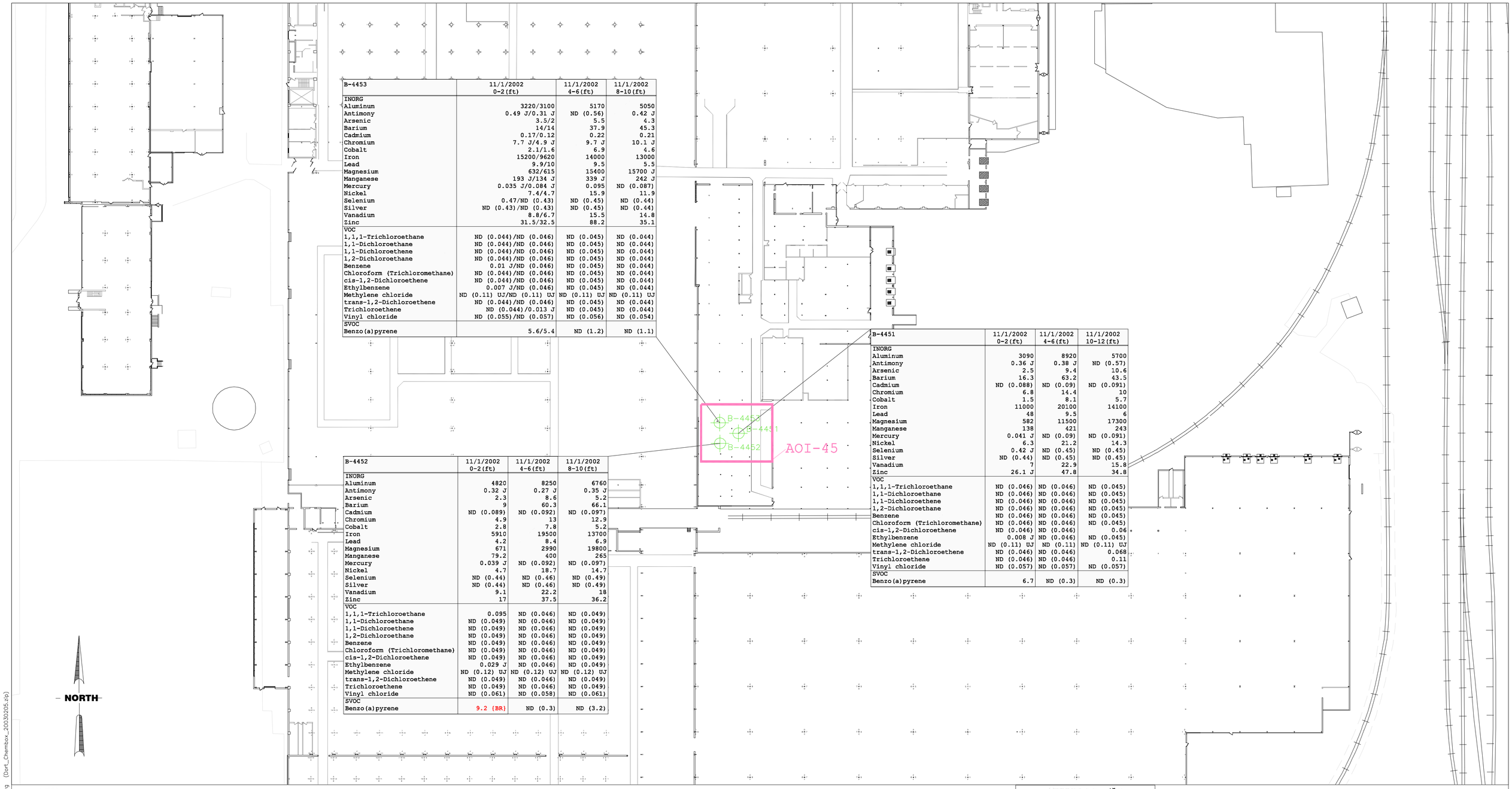


B-4453	11/1/2002 0-2(ft)	11/1/2002 4-6(ft)	11/1/2002 8-10(ft)
INORG			
Aluminum	3220/3100	5170	5050
Antimony	0.49 J/0.31 J	ND (0.56)	0.42 J
Arsenic	3.5/2	5.5	4.3
Barium	14/14	37.9	45.3
Cadmium	0.17/0.12	0.22	0.21
Chromium	7.7 J/4.9 J	9.7 J	10.1 J
Cobalt	2.1/1.6	6.9	4.6
Iron	15200/9620	14000	13000
Lead	9.9/10	9.5	5.5
Magnesium	632/615	15400	15700 J
Manganese	193 J/134 J	339 J	242 J
Mercury	0.035 J/0.084 J	0.095	ND (0.087)
Nickel	7.4/4.7	15.9	11.9
Selenium	0.47/ND (0.43)	ND (0.45)	ND (0.44)
Silver	ND (0.43)/ND (0.43)	ND (0.45)	ND (0.44)
Vanadium	8.8/6.7	15.5	14.8
Zinc	31.5/32.5	88.2	35.1
VOC			
1,1,1-Trichloroethane	ND (0.044)/ND (0.046)	ND (0.045)	ND (0.044)
1,1-Dichloroethane	ND (0.044)/ND (0.046)	ND (0.045)	ND (0.044)
1,1-Dichloroethene	ND (0.044)/ND (0.046)	ND (0.045)	ND (0.044)
1,2-Dichloroethane	ND (0.044)/ND (0.046)	ND (0.045)	ND (0.044)
Benzene	0.01 J/ND (0.046)	ND (0.045)	ND (0.044)
Chloroform (Trichloromethane)	ND (0.044)/ND (0.046)	ND (0.045)	ND (0.044)
cis-1,2-Dichloroethene	ND (0.044)/ND (0.046)	ND (0.045)	ND (0.044)
Ethylbenzene	0.007 J/ND (0.046)	ND (0.045)	ND (0.044)
Methylene chloride	ND (0.11) UJ/ND (0.11) UJ	ND (0.11) UJ	ND (0.11) UJ
trans-1,2-Dichloroethene	ND (0.044)/ND (0.046)	ND (0.045)	ND (0.044)
Trichloroethene	ND (0.044)/0.013 J	ND (0.045)	ND (0.044)
Vinyl chloride	ND (0.055)/ND (0.057)	ND (0.056)	ND (0.054)
SVOC			
Benzo(a)pyrene	5.6/5.4	ND (1.2)	ND (1.1)

B-4452	11/1/2002 0-2(ft)	11/1/2002 4-6(ft)	11/1/2002 8-10(ft)
INORG			
Aluminum	4820	8250	6760
Antimony	0.32 J	0.27 J	0.35 J
Arsenic	2.3	8.6	5.2
Barium	9	60.3	66.1
Cadmium	ND (0.089)	ND (0.092)	ND (0.097)
Chromium	4.9	13	12.9
Cobalt	2.8	7.8	5.2
Iron	5910	19500	13700
Lead	4.2	8.4	6.9
Magnesium	671	2990	19800
Manganese	79.2	400	265
Mercury	0.039 J	ND (0.092)	ND (0.097)
Nickel	4.7	18.7	14.7
Selenium	ND (0.44)	ND (0.46)	ND (0.49)
Silver	ND (0.44)	ND (0.46)	ND (0.49)
Vanadium	9.1	22.2	18
Zinc	17	37.5	36.2
VOC			
1,1,1-Trichloroethane	0.095	ND (0.046)	ND (0.049)
1,1-Dichloroethane	ND (0.049)	ND (0.046)	ND (0.049)
1,1-Dichloroethene	ND (0.049)	ND (0.046)	ND (0.049)
1,2-Dichloroethane	ND (0.049)	ND (0.046)	ND (0.049)
Benzene	ND (0.049)	ND (0.046)	ND (0.049)
Chloroform (Trichloromethane)	ND (0.049)	ND (0.046)	ND (0.049)
cis-1,2-Dichloroethene	ND (0.049)	ND (0.046)	ND (0.049)
Ethylbenzene	0.029 J	ND (0.046)	ND (0.049)
Methylene chloride	ND (0.12) UJ	ND (0.12) UJ	ND (0.12) UJ
trans-1,2-Dichloroethene	ND (0.049)	ND (0.046)	ND (0.049)
Trichloroethene	ND (0.049)	ND (0.046)	ND (0.049)
Vinyl chloride	ND (0.061)	ND (0.058)	ND (0.061)
SVOC			
Benzo(a)pyrene	9.2 (BR)	ND (0.3)	ND (3.2)

B-4451	11/1/2002 0-2(ft)	11/1/2002 4-6(ft)	11/1/2002 10-12(ft)
INORG			
Aluminum	3090	8920	5700
Antimony	0.36 J	0.38 J	ND (0.57)
Arsenic	2.5	9.4	10.6
Barium	16.3	63.2	43.5
Cadmium	ND (0.088)	ND (0.09)	ND (0.091)
Chromium	6.8	14.4	10
Cobalt	1.5	8.1	5.7
Iron	11000	20100	14100
Lead	48	9.5	6
Magnesium	582	11500	17300
Manganese	138	421	243
Mercury	0.041 J	ND (0.09)	ND (0.091)
Nickel	6.3	21.2	14.3
Selenium	0.42 J	ND (0.45)	ND (0.45)
Silver	ND (0.44)	ND (0.45)	ND (0.45)
Vanadium	7	22.9	15.8
Zinc	26.1 J	47.8	34.8
VOC			
1,1,1-Trichloroethane	ND (0.046)	ND (0.046)	ND (0.045)
1,1-Dichloroethane	ND (0.046)	ND (0.046)	ND (0.045)
1,1-Dichloroethene	ND (0.046)	ND (0.046)	ND (0.045)
1,2-Dichloroethane	ND (0.046)	ND (0.046)	ND (0.045)
Benzene	ND (0.046)	ND (0.046)	ND (0.045)
Chloroform (Trichloromethane)	ND (0.046)	ND (0.046)	ND (0.045)
cis-1,2-Dichloroethene	ND (0.046)	ND (0.046)	0.06
Ethylbenzene	0.008 J	ND (0.046)	ND (0.045)
Methylene chloride	ND (0.11) UJ	ND (0.11)	ND (0.11) UJ
trans-1,2-Dichloroethene	ND (0.046)	ND (0.046)	0.068
Trichloroethene	ND (0.046)	ND (0.046)	0.11
Vinyl chloride	ND (0.057)	ND (0.057)	ND (0.057)
SVOC			
Benzo(a)pyrene	6.7	ND (0.3)	ND (0.3)

NOTES:
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/kg.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   NA – Not Available, associated with Pre-RFI data.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   BR – Exceeds Industrial Direct Contact Screening Criteria
   AR – Exceeds Industrial Volatilization to Indoor Air Screening Criteria
   BDR – Exceeds Industrial Volatilization to Indoor Air and Industrial Volatilization to Ambient Air Screening Criteria
   E – Exceeds Residential Direct Contact Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

B-4271 Field Event #1 Boring Location

0 20 40 80 120
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

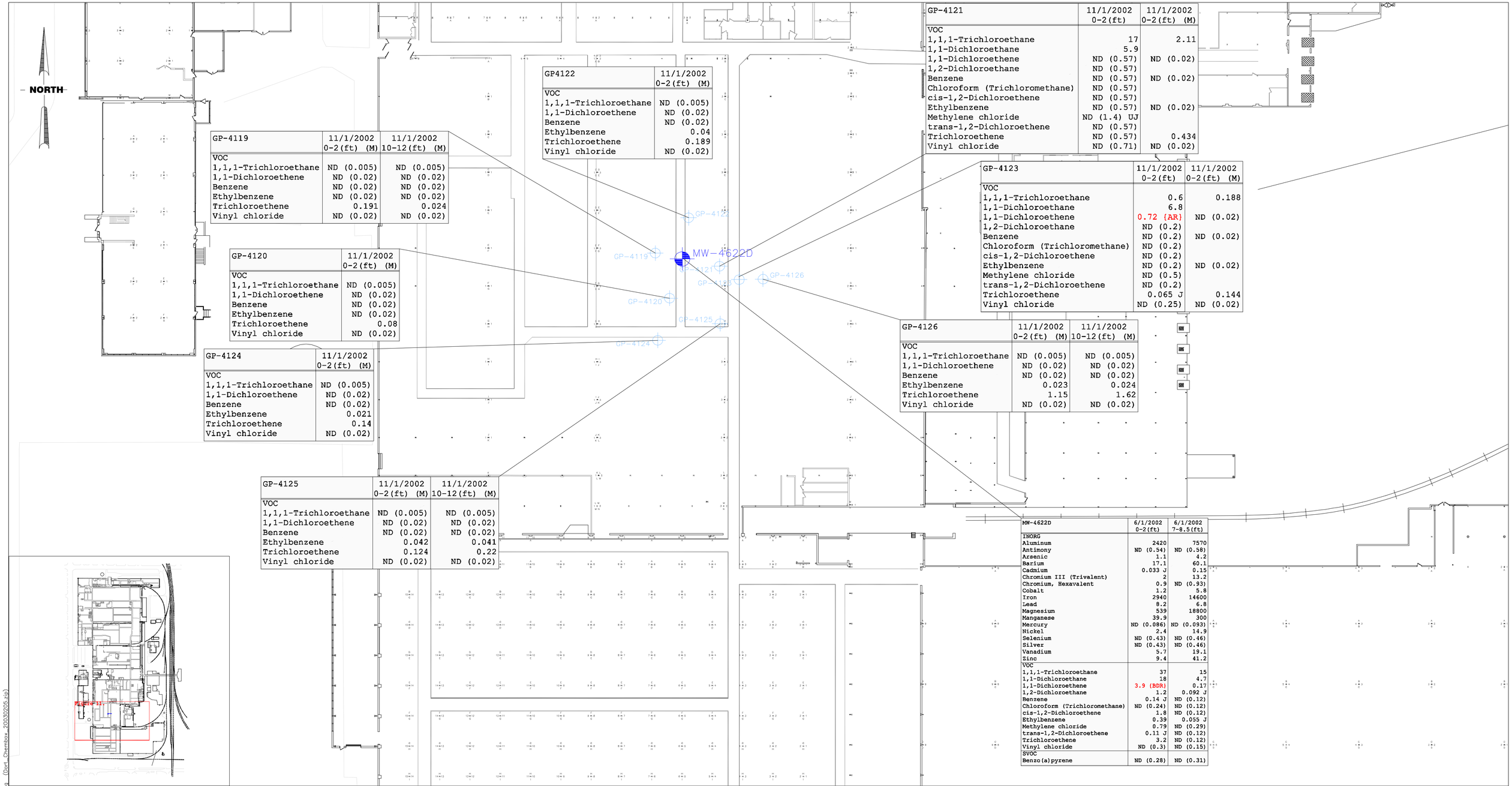
DELPHI CORPORATION
FLINT-EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

SOIL ANALYTICAL RESULTS FOR AOI-45 COMPACTOR

SCALE: AS SHOWN
March 28, 2003

FIGURE 10A

G:\49017\017\posting\FE1_Soil_Posting_RCP.dwg (Dort_Chembox_20030205.zip)



GP-4119	11/1/2002 0-2(ft) (M)	11/1/2002 10-12(ft) (M)
VOC		
1,1,1-Trichloroethane	ND (0.005)	ND (0.005)
1,1-Dichloroethene	ND (0.02)	ND (0.02)
Benzene	ND (0.02)	ND (0.02)
Ethylbenzene	ND (0.02)	ND (0.02)
Trichloroethene	0.191	0.024
Vinyl chloride	ND (0.02)	ND (0.02)

GP4122	11/1/2002 0-2(ft) (M)
VOC	
1,1,1-Trichloroethane	ND (0.005)
1,1-Dichloroethene	ND (0.02)
Benzene	ND (0.02)
Ethylbenzene	0.04
Trichloroethene	0.189
Vinyl chloride	ND (0.02)

GP-4121	11/1/2002 0-2(ft)	11/1/2002 0-2(ft) (M)
VOC		
1,1,1-Trichloroethane	17	2.11
1,1-Dichloroethane	5.9	
1,1-Dichloroethene	ND (0.57)	ND (0.02)
1,2-Dichloroethane	ND (0.57)	
Benzene	ND (0.57)	ND (0.02)
Chloroform (Trichloromethane)	ND (0.57)	
cis-1,2-Dichloroethene	ND (0.57)	
Ethylbenzene	ND (0.57)	ND (0.02)
Methylene chloride	ND (1.4) UJ	
trans-1,2-Dichloroethene	ND (0.57)	
Trichloroethene	ND (0.57)	0.434
Vinyl chloride	ND (0.71)	ND (0.02)

GP-4123	11/1/2002 0-2(ft)	11/1/2002 0-2(ft) (M)
VOC		
1,1,1-Trichloroethane	0.6	0.188
1,1-Dichloroethane	6.8	
1,1-Dichloroethene	0.72 {AR}	ND (0.02)
1,2-Dichloroethane	ND (0.2)	
Benzene	ND (0.2)	ND (0.02)
Chloroform (Trichloromethane)	ND (0.2)	
cis-1,2-Dichloroethene	ND (0.2)	
Ethylbenzene	ND (0.2)	ND (0.02)
Methylene chloride	ND (0.5)	
trans-1,2-Dichloroethene	ND (0.2)	
Trichloroethene	0.065 J	0.144
Vinyl chloride	ND (0.25)	ND (0.02)

GP-4120	11/1/2002 0-2(ft) (M)
VOC	
1,1,1-Trichloroethane	ND (0.005)
1,1-Dichloroethene	ND (0.02)
Benzene	ND (0.02)
Ethylbenzene	ND (0.02)
Trichloroethene	0.08
Vinyl chloride	ND (0.02)

GP-4124	11/1/2002 0-2(ft) (M)
VOC	
1,1,1-Trichloroethane	ND (0.005)
1,1-Dichloroethene	ND (0.02)
Benzene	ND (0.02)
Ethylbenzene	0.021
Trichloroethene	0.14
Vinyl chloride	ND (0.02)

GP-4126	11/1/2002 0-2(ft) (M)	11/1/2002 10-12(ft) (M)
VOC		
1,1,1-Trichloroethane	ND (0.005)	ND (0.005)
1,1-Dichloroethene	ND (0.02)	ND (0.02)
Benzene	ND (0.02)	ND (0.02)
Ethylbenzene	0.023	0.024
Trichloroethene	1.15	1.62
Vinyl chloride	ND (0.02)	ND (0.02)

GP-4125	11/1/2002 0-2(ft) (M)	11/1/2002 10-12(ft) (M)
VOC		
1,1,1-Trichloroethane	ND (0.005)	ND (0.005)
1,1-Dichloroethene	ND (0.02)	ND (0.02)
Benzene	ND (0.02)	ND (0.02)
Ethylbenzene	0.042	0.041
Trichloroethene	0.124	0.22
Vinyl chloride	ND (0.02)	ND (0.02)

MW-4622D	6/1/2002 0-2(ft)	6/1/2002 7-8.5(ft)
INORG		
Aluminum	2420	7570
Antimony	ND (0.54)	ND (0.58)
Arsenic	1.1	4.2
Barium	17.1	60.1
Cadmium	0.033 J	0.15
Chromium III (Trivalent)	2	13.2
Chromium, Hexavalent	0.9	ND (0.93)
Cobalt	1.2	5.8
Iron	2940	14600
Lead	8.2	6.8
Magnesium	539	18800
Manganese	39.9	300
Mercury	ND (0.086)	ND (0.093)
Nickel	2.4	14.9
Selenium	ND (0.43)	ND (0.46)
Silver	ND (0.43)	ND (0.46)
Vanadium	5.7	19.1
Zinc	9.4	41.2
VOC		
1,1,1-Trichloroethane	37	15
1,1-Dichloroethane	18	4.7
1,1-Dichloroethene	3.9 {BDR}	0.17
1,2-Dichloroethane	1.2	0.092 J
Benzene	0.14 J	ND (0.12)
Chloroform (Trichloromethane)	ND (0.24)	ND (0.12)
cis-1,2-Dichloroethene	1.8	ND (0.12)
Ethylbenzene	0.39	0.055 J
Methylene chloride	0.79	ND (0.29)
trans-1,2-Dichloroethene	0.11 J	ND (0.12)
Trichloroethene	3.2	ND (0.12)
Vinyl chloride	ND (0.3)	ND (0.15)
SVOC		
Benzo(a)pyrene	ND (0.28)	ND (0.31)

NOTES:
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/kg.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   NA – Not Available, associated with Pre-RFI data.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   BR – Exceeds Industrial Direct Contact Screening Criteria
   AR – Exceeds Industrial Volatilization to Indoor Air Screening Criteria
   BDR – Exceeds Industrial Volatilization to Indoor Air and Industrial Volatilization to Ambient Air Screening Criteria
   E – Exceeds Residential Direct Contact Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

MW-4107 Monitoring Well (Second Saturated Zone)

GP-4001 Direct Push Delineation Boring Location

0 15 30 60 90
SCALE IN FEET

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DELPHI CORPORATION
FLINT-EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

SOIL ANALYTICAL RESULTS
FOR BUILDING 4082 (AOI-49)

SCALE: AS SHOWN
March 28, 2003

FIGURE 11A

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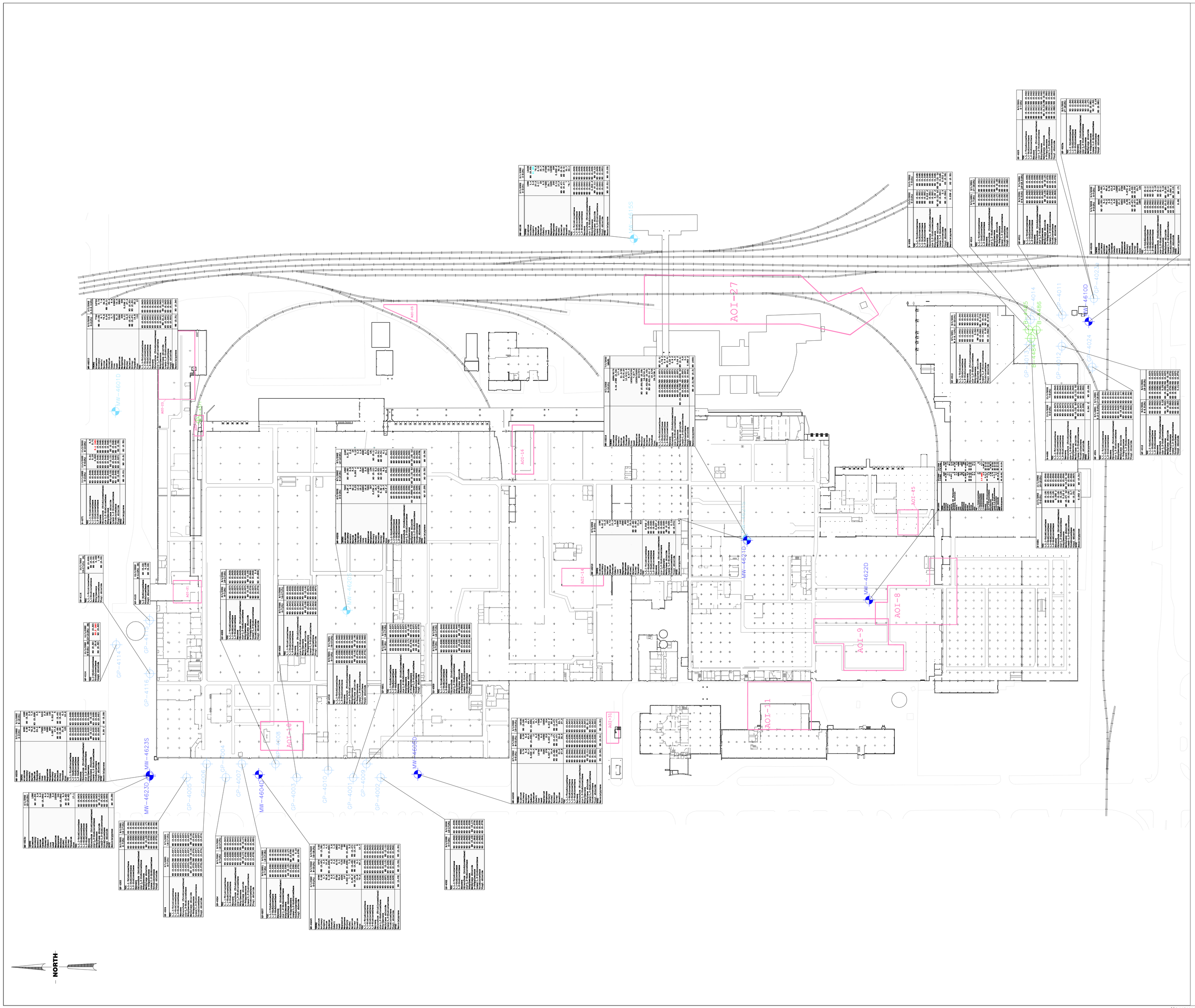

LEGEND

- MW-4107 Monitoring Well (Second Saturated Zone)
- MW-1122 Monitoring Well (First Saturated Zone)
- GP-4002 Direct Push Delineation Boring Location
- EP-A271 Field Event #1 Boring Location

NOTES:

1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/kg.
3. ND – indicates compound was analyzed for but not detected.
   J2 – Indicates estimate value.
   RL – Indicates Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   NA – Not Available, associated with Pre-RFI data.
   J – indicates the data qualifier used for duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   BR – Exceeds Industrial Direct Contact Screening Criteria
   BW – Exceeds Industrial Volatilization to Indoor Air Screening Criteria
   BDR – Exceeds Industrial Volatilization to Indoor Air and Industrial Volatilization to Ambient Air Screening Criteria
   {Green Highlight} – Exceeds Industrial Volatilization to Ambient Air Screening Criteria (Off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) differed from the toxicity values that MDEQ used to calculate its screening criteria for other concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

HALEY & ALDRICH

ENGINEERING AND ENVIRONMENTAL CONSULTANTS

DELPHI CORPORATION
DAS-LAST PLANT 460
FORMER
PARK, MICHIGAN

SITEWIDE SOIL ANALYTICAL RESULTS

SCALE: AS SHOWN

March 26, 2003

FIGURE 12A

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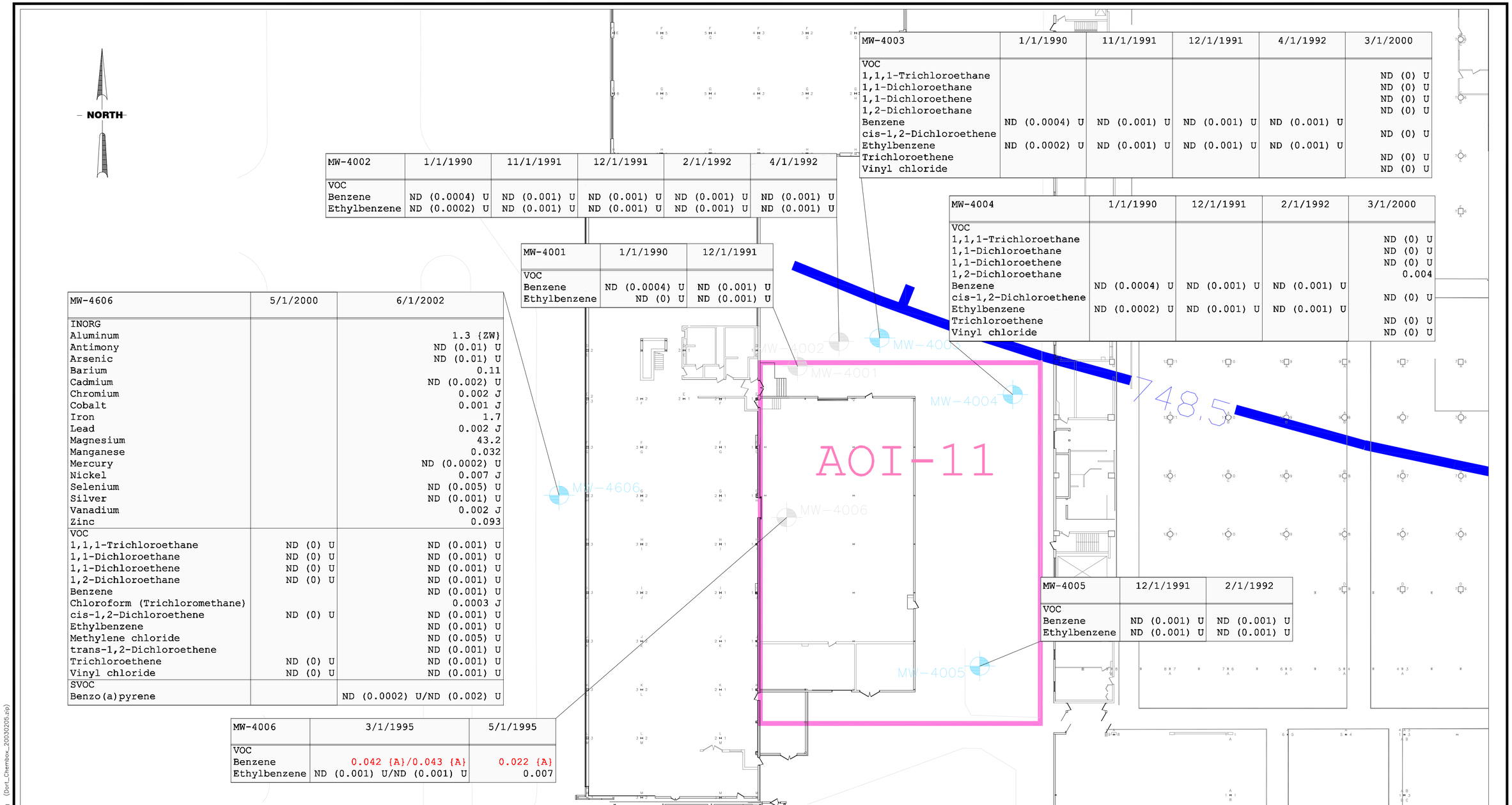
APPENDIX B

Groundwater Screening Figures



MW-4003	1/1/1990	11/1/1991	12/1/1991	4/1/1992	3/1/2000
VOC					
1,1,1-Trichloroethane					ND (0) U
1,1-Dichloroethane					ND (0) U
1,1-Dichloroethene					ND (0) U
1,2-Dichloroethane					ND (0) U
Benzene	ND (0.0004) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	
cis-1,2-Dichloroethene					ND (0) U
Ethylbenzene	ND (0.0002) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	
Trichloroethene					ND (0) U
Vinyl chloride					ND (0) U

MW-4002	1/1/1990	11/1/1991	12/1/1991	2/1/1992	4/1/1992
VOC					
Benzene	ND (0.0004) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.0002) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U

MW-4004	1/1/1990	12/1/1991	2/1/1992	3/1/2000
VOC				
1,1,1-Trichloroethane				ND (0) U
1,1-Dichloroethane				ND (0) U
1,1-Dichloroethene				ND (0) U
1,2-Dichloroethane				0.004
Benzene	ND (0.0004) U	ND (0.001) U	ND (0.001) U	
cis-1,2-Dichloroethene				ND (0) U
Ethylbenzene	ND (0.0002) U	ND (0.001) U	ND (0.001) U	
Trichloroethene				ND (0) U
Vinyl chloride				ND (0) U

MW-4001	1/1/1990	12/1/1991
VOC		
Benzene	ND (0.0004) U	ND (0.001) U
Ethylbenzene	ND (0) U	ND (0.001) U

MW-4005	12/1/1991	2/1/1992
VOC		
Benzene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U

MW-4606	5/1/2000	6/1/2002
INORG		
Aluminum		1.3 {ZW}
Antimony		ND (0.01) U
Arsenic		ND (0.01) U
Barium		0.11
Cadmium		ND (0.002) U
Chromium		0.002 J
Cobalt		0.001 J
Iron		1.7
Lead		0.002 J
Magnesium		43.2
Manganese		0.032
Mercury		ND (0.0002) U
Nickel		0.007 J
Selenium		ND (0.005) U
Silver		ND (0.001) U
Vanadium		0.002 J
Zinc		0.093
VOC		
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U
1,2-Dichloroethane	ND (0) U	ND (0.001) U
Benzene		ND (0.001) U
Chloroform (Trichloromethane)		0.0003 J
cis-1,2-Dichloroethene	ND (0) U	ND (0.001) U
Ethylbenzene		ND (0.001) U
Methylene chloride		ND (0.005) U
trans-1,2-Dichloroethene		ND (0.001) U
Trichloroethene	ND (0) U	ND (0.001) U
Vinyl chloride	ND (0) U	ND (0.001) U
SVOC		
Benzo(a)pyrene		ND (0.0002) U/ND (0.002) U

MW-4006	3/1/1995	5/1/1995
VOC		
Benzene	0.042 {A}/0.043 {A}	0.022 {A}
Ethylbenzene	ND (0.001) U/ND (0.001) U	0.007

NOTES:
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   A – Exceeds Industrial Drinking Water Screening Criteria
   AB – Exceeds Industrial Drinking Water and Groundwater Contact Screening Criteria
   AC – Exceeds Industrial Drinking Water and Industrial Volatilization to Indoor Air Screening Criteria
   AG – Exceeds Industrial Drinking Water and GSI (Ecological) Screening Criteria
   G or GR – Exceeds GSI (Ecological) Screening Criteria
   D – Exceeds Residential Drinking Water Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. Potentiometric Surface Contours are inferred between measured points.
   See Figure 3 for site wide Potentiometric Surface Contours.
7. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND:

MW-4611 Abandoned Monitoring Well

MW-4107 Monitoring Well (First Saturated Zones)

750.0 Estimated Potentiometric Surface Contours for First Saturated Zone

0 10 20 40 60
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

GROUNDWATER ANALYTICAL RESULTS
AOI-11 EXECUTIVE GARAGE

SCALE: AS SHOWN
March 28, 2003

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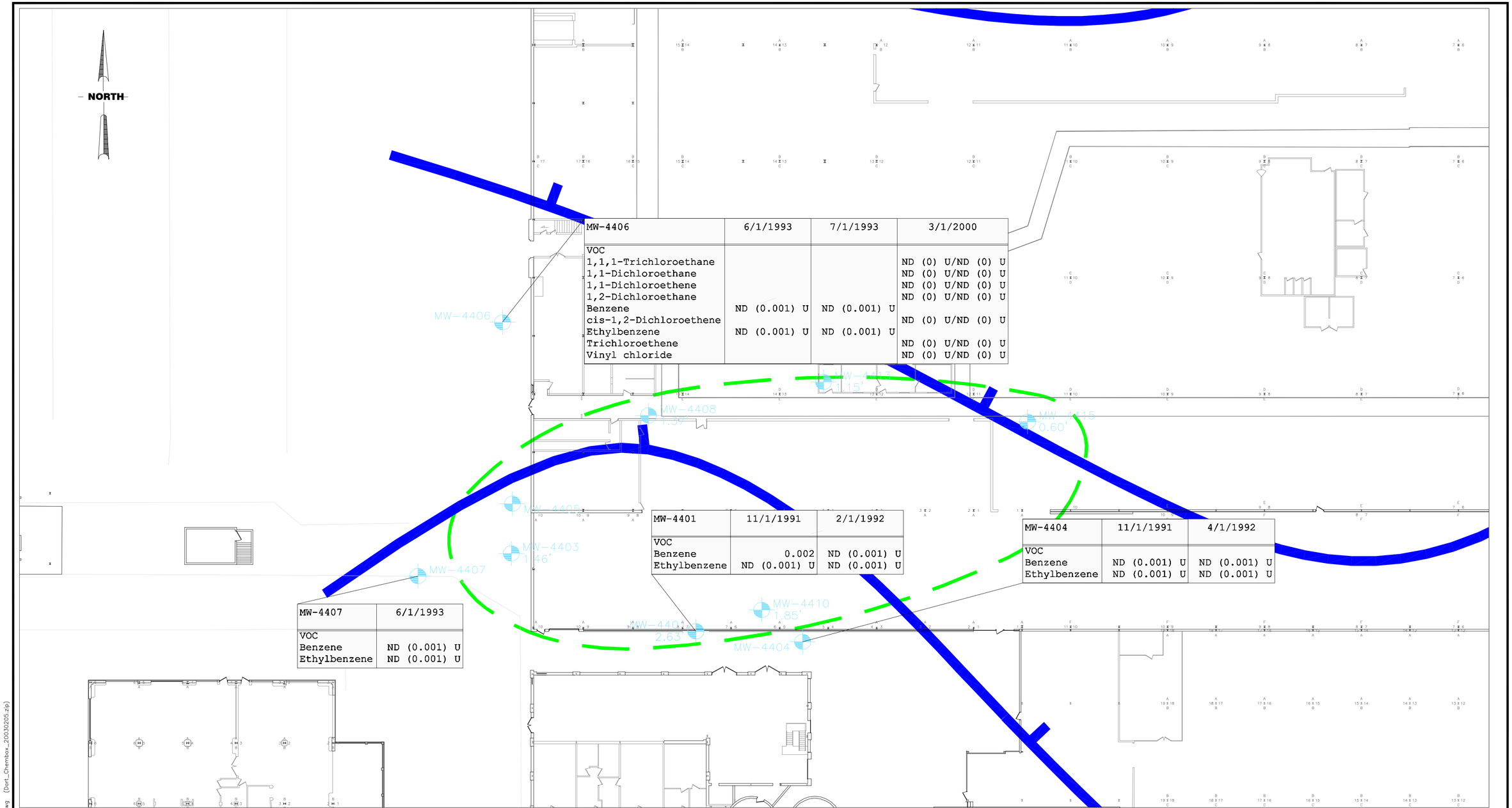
FIGURE 1B



MW-4406	6/1/1993	7/1/1993	3/1/2000
VOC			
1,1,1-Trichloroethane			ND (0) U/ND (0) U
1,1-Dichloroethane			ND (0) U/ND (0) U
1,1-Dichloroethene			ND (0) U/ND (0) U
1,2-Dichloroethane			ND (0) U/ND (0) U
Benzene	ND (0.001) U	ND (0.001) U	
cis-1,2-Dichloroethene			ND (0) U/ND (0) U
Ethylbenzene	ND (0.001) U	ND (0.001) U	
Trichloroethene			ND (0) U/ND (0) U
Vinyl chloride			ND (0) U/ND (0) U

MW-4401	11/1/1991	2/1/1992
VOC		
Benzene	0.002	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U

MW-4404	11/1/1991	4/1/1992
VOC		
Benzene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U

MW-4407	6/1/1993
VOC	
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U

NOTES:
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in ( ).
   A – Exceeds Industrial Drinking Water Screening Criteria
   AB – Exceeds Industrial Drinking Water and Groundwater Contact Screening Criteria
   AC – Exceeds Industrial Drinking Water and Industrial Volatilization to Indoor Air Screening Criteria
   AG – Exceeds Industrial Drinking Water and GSI (Ecological) Screening Criteria
   G or GR – Exceeds GSI (Ecological) Screening Criteria
   R – Exceeds Residential Drinking Water Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. Potentiometric Surface Contours are inferred between measured points. See Figure 3 for site wide Potentiometric Surface Contours.
7. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

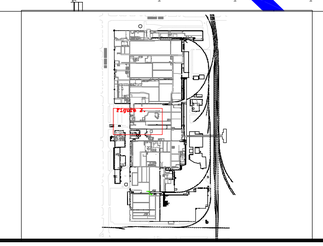
LEGEND:

MW-4107 FPT — Monitoring Well (First Saturated Zones); FPT: Free Product Thickness

Estimated extent of Free Product Thickness based on Dec. 2002 Fluid Level Measurements

Estimated Potentiometric Surface Contours for First Saturated Zone

0 10 20 40 60
SCALE IN FEET



HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

GROUNDWATER ANALYTICAL RESULTS
AOI-13 GRIDLEY AREA

SCALE: AS SHOWN
March 28, 2003

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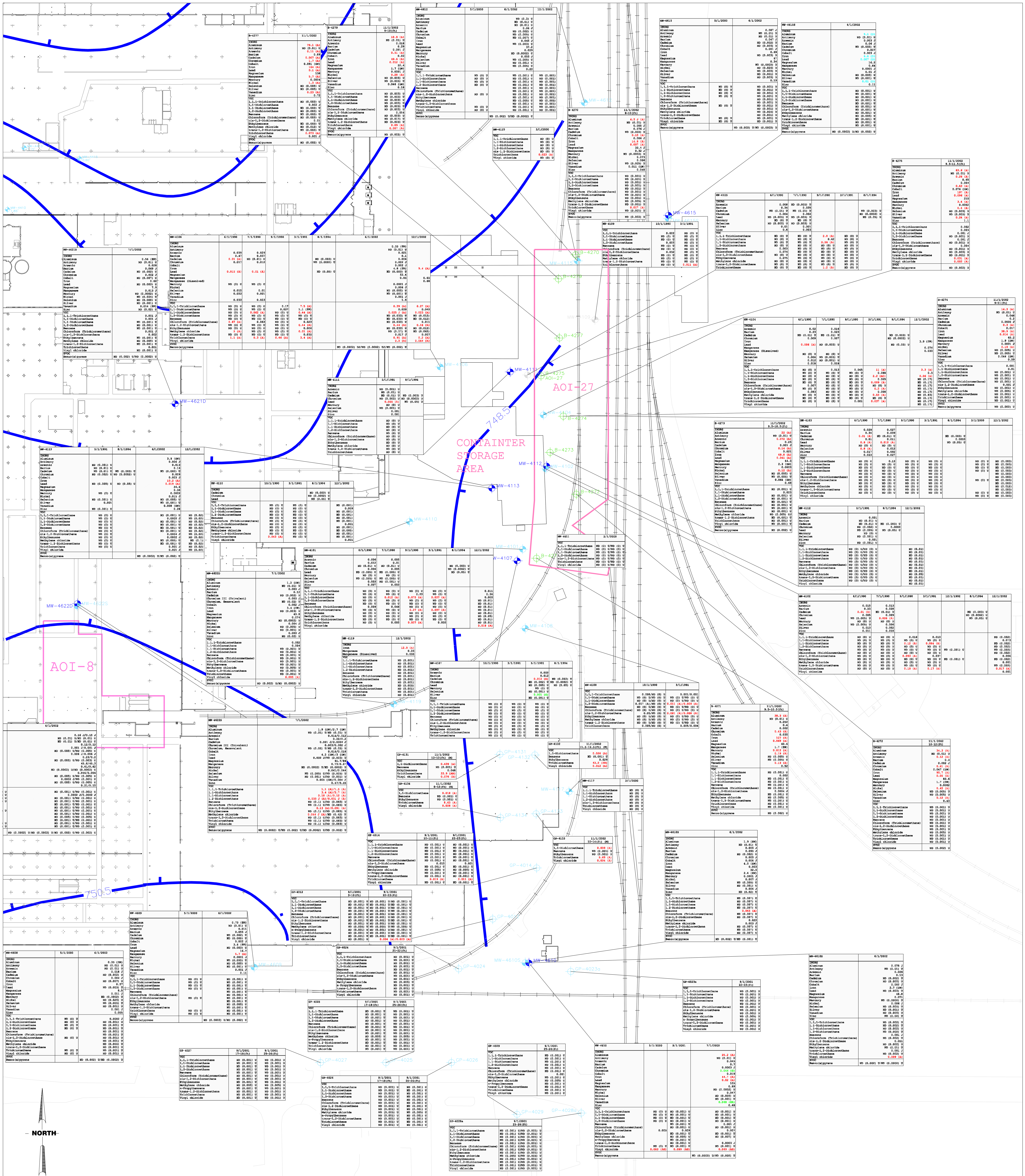
FIGURE 2B



B-4277	11/1/2002
INORG	
Aluminum	79.1 {A}
Antimony	ND (0.01) U
Arsenic	0.11 {A}
Barium	0.89
Cadmium	0.007 {A}
Chromium	1.7 {A}
Cobalt	0.091 {ZW}
Iron	164 {A}
Lead	0.1 {A}
Magnesium	138
Manganese	5.7 {A}
Mercury	0.0004
Nickel	1.3 {A}
Selenium	ND (0.005) U
Silver	ND (0.005) U
Vanadium	0.23 {A}
Zinc	0.72
VOC	
1,1,1-Trichloroethane	ND (0.003) U
1,1-Dichloroethane	0.002 J
1,1-Dichloroethene	ND (0.003) U
1,2-Dichloroethane	ND (0.003) U
Benzene	ND (0.003) U
Chloroform (Trichloromethane)	ND (0.003) U
cis-1,2-Dichloroethene	0.01
Ethylbenzene	ND (0.003) U
Methylene chloride	ND (0.012) U
trans-1,2-Dichloroethene	ND (0.003) U
Trichloroethene	0.073 {A}
Vinyl chloride	0.001 J
SVOC	
Benzo(a)pyrene	ND (0.002) U

B-4279	11/1/2002 9-10(ft)
INORG	
Aluminum	18.9 {A}
Antimony	ND (0.01) U
Arsenic	0.018
Barium	0.29
Cadmium	0.001 J
Chromium	0.51 {A}
Cobalt	0.02
Iron	49.6 {A}
Lead	0.012 {A}
Magnesium	52.4
Manganese	1.7 {ZW}
Mercury	0.0001 J
Nickel	0.28 {A}
Selenium	ND (0.005) U
Silver	ND (0.005) U
Vanadium	0.046 {ZW}
Zinc	0.18
VOC	
1,1,1-Trichloroethane	ND (0.003) U
1,1-Dichloroethane	ND (0.003) U
1,1-Dichloroethene	ND (0.003) U
1,2-Dichloroethane	ND (0.003) U
Benzene	ND (0.003) U
Chloroform (Trichloromethane)	ND (0.003) U
cis-1,2-Dichloroethene	0.016
Ethylbenzene	ND (0.003) U
Methylene chloride	ND (0.017) U
trans-1,2-Dichloroethene	ND (0.003) U
Trichloroethene	0.09 {A}
Vinyl chloride	0.007 {A}
SVOC	
Benzo(a)pyrene	ND (0.002) U

MW-4612	5/1/2000	6/1/2002	12/1/2002
INORG			
Aluminum		ND (0.2) U	
Antimony		ND (0.01) U	
Arsenic		ND (0.01) U	
Barium		0.06 J	
Cadmium		ND (0.002) U	
Chromium		ND (0.005) U	
Cobalt		ND (0.007) U	
Iron		0.045 J	
Lead		ND (0.003) U	
Magnesium		37.2	
Manganese		0.029	
Mercury		ND (0.0002) U	
Nickel		0.003 J	
Selenium		ND (0.005) U	
Silver		ND (0.001) U	
Vanadium		ND (0.005) U	
Zinc		0.23	
VOC			
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U	ND (0.001)
1,1-Dichloroethane	ND (0) U	ND (0.001) U	ND (0.001)
1,1-Dichloroethene	ND (0) U	ND (0.001) U	ND (0.001)
1,2-Dichloroethane	ND (0) U	ND (0.001) U	ND (0.001)
Benzene		ND (0.001) U	ND (0.001)
Chloroform (Trichloromethane)		ND (0.001) U	ND (0.001)
cis-1,2-Dichloroethene	ND (0) U	ND (0.001) U	ND (0.001)
Ethylbenzene		ND (0.001) U	ND (0.001)
Methylene chloride		ND (0.005) U	ND (0.005)
trans-1,2-Dichloroethene		ND (0.001) U	ND (0.001)
Trichloroethene	ND (0) U	ND (0.001) U	ND (0.001)
Vinyl chloride	ND (0) U	ND (0.001) U	ND (0.001)
SVOC			
Benzo(a)pyrene		ND (0.002) U/ND (0.0002) U	

MW-4115	3/1/2000
VOC	
1,1,1-Trichloroethane	ND (0) U
1,1-Dichloroethane	ND (0) U
1,1-Dichloroethene	ND (0) U
1,2-Dichloroethane	ND (0) U
cis-1,2-Dichloroethene	ND (0) U
Trichloroethene	0.023 {A}
Vinyl chloride	ND (0) U

B-4270	11/1/2002 8-10(ft)
INORG	
Aluminum	4.5 J {A}
Antimony	ND (0.01) U
Arsenic	0.005 J
Barium	0.076 J
Cadmium	ND (0.002) U
Chromium	0.15 {A}
Cobalt	0.006 J
Iron	14.8 {A}
Lead	0.007 {A}
Magnesium	33.4 J
Manganese	0.32 J
Mercury	ND (0.0002) U
Nickel	0.073
Selenium	0.006
Silver	ND (0.005) U
Vanadium	0.011 {ZW}
Zinc	0.048
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	0.017 {A}
Vinyl chloride	ND (0.001) U
SVOC	
Benzo(a)pyrene	ND (0.002) U

MW-4615	5/1/2000	6/1/2002
INORG		
Aluminum		0.087 J
Antimony		ND (0.01) U
Arsenic		ND (0.01) U
Barium		0.047 J
Cadmium		ND (0.002) U
Chromium		ND (0.005) U
Cobalt		0.001 J
Iron		0.69
Lead		ND (0.003) U
Magnesium		67
Manganese		0.34
Mercury		ND (0.0002) U
Nickel		ND (0.025) U
Selenium		ND (0.005) U
Silver		ND (0.001) U
Vanadium		ND (0.005) U
Zinc		0.19
VOC		
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U
1,2-Dichloroethane	ND (0) U	ND (0.001) U
Benzene		ND (0.001) U
Chloroform (Trichloromethane)		ND (0.001) U
cis-1,2-Dichloroethene	ND (0) U	ND (0.001) U
Ethylbenzene		ND (0.001) U
Methylene chloride		ND (0.005) U
trans-1,2-Dichloroethene		ND (0.001) U
Trichloroethene	ND (0) U	ND (0.001) U
Vinyl chloride	ND (0) U	ND (0.001) U
SVOC		
Benzo(a)pyrene		ND (0.002) U/ND (0.0002) U

MW-4615S	6/1/2002
INORG	
Aluminum	5.1 {D}
Antimony	ND (0.01) U
Arsenic	0.003 J
Barium	0.06 J
Cadmium	ND (0.002) U
Chromium	0.007
Cobalt	0.003 J
Iron	6.6 {D}
Lead	0.007 {D}
Magnesium	16.2
Manganese	0.64
Mercury	0.0001 J
Nickel	0.01 J
Selenium	ND (0.005) U
Silver	ND (0.001) U
Vanadium	0.01 {D}
Zinc	0.11
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	ND (0.001) U
SVOC	
Benzo(a)pyrene	ND (0.0002) U/ND (0.002) U

B-4275	11/1/2002 9.5-11.5(ft)
INORG	
Aluminum	63.6 {A}
Antimony	ND (0.01) U
Arsenic	0.26 {A}
Barium	0.65
Cadmium	0.004
Chromium	0.63 {A}
Cobalt	0.076 {ZW}
Iron	197 {A}
Lead	0.096 {A}
Magnesium	210
Manganese	3.4 {A}
Mercury	0.0002
Nickel	0.4 {A}
Selenium	ND (0.005) U
Silver	ND (0.005) U
Vanadium	0.24 {A}
Zinc	1.1
VOC	
1,1,1-Trichloroethane	0.002
1,1-Dichloroethane	0.003
1,1-Dichloroethene	0.001 J
1,2-Dichloroethane	ND (0.001) U
Benzene	0.001 J
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	0.004
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	0.031 {A}
Vinyl chloride	0.002 {A}
SVOC	
Benzo(a)pyrene	ND (0.002) U

MW-4109	10/1/1990	3/1/1991
VOC		
1,1,1-Trichloroethane	0.002	ND (0) U
1,1-Dichloroethane	ND (0) U	ND (0) U
1,1-Dichloroethene	ND (0) U	ND (0) U
1,2-Dichloroethane	0.005	ND (0) U
Benzene	ND (0) U	ND (0) U
Chloroform (Trichloromethane)	ND (0) U	ND (0) U
cis-1,2-Dichloroethene	0.032	ND (0) U
Ethylbenzene	ND (0) U	ND (0) U
Methylene chloride	ND (0) U	ND (0) U
trans-1,2-Dichloroethene	ND (0) U	ND (0) U
Trichloroethene	ND (0) U	0.011 {A}

MW-4105	6/1/1990	7/1/1990	9/1/1990	3/1/1991	8/1/1994
INORG					
Arsenic	0.008	ND (0.005) U			
Barium	0.34	0.035			
Cadmium	ND (0.01) U	ND (0.01) U			ND (0.003) U
Chromium	0.004	0.002			ND (0.0002) U
Lead	ND (0.005) U	ND (0.005) U			ND (0.05) U
Mercury	ND (0) U	ND (0) U			
Selenium	ND (0.005) U	ND (0.005) U			
Silver	0.01	0.001			
Zinc	0.6	0.003			
VOC					
1,1,1-Trichloroethane	ND (0) U	ND (0) U	2.8 {A}	ND (0) U	
1,1-Dichloroethane	ND (0) U	ND (0) U	0.42	ND (0) U	
1,1-Dichloroethene	ND (0) U	ND (0) U	0.26 {A}	ND (0) U	
1,2-Dichloroethane	ND (0) U	ND (0) U	ND (0) U	ND (0) U	
Benzene	0.003	ND (0) U	ND (0) U	ND (0) U	
Chloroform (Trichloromethane)	0.074	ND (0) U	ND (0) U	ND (0) U	
cis-1,2-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	ND (0) U	
Ethylbenzene	0.075	ND (0) U	ND (0) U	ND (0) U	
Methylene chloride	ND (0) U	ND (0) U	ND (0) U	ND (0) U	
trans-1,2-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	ND (0) U	
Trichloroethene	ND (0) U	ND (0) U	1.2 {A}	ND (0) U	

B-4274	11/1/2002 9-11(ft)
INORG	
Aluminum	14.3 {A}
Antimony	ND (0.01) U
Arsenic	0.046
Barium	0.2
Cadmium	0.0005 J
Chromium	0.3 {A}
Cobalt	0.017
Iron	38.9 {A}
Lead	0.014 {A}
Magnesium	65.2
Manganese	1.9 {ZW}
Mercury	0.0001 J
Nickel	0.19 {A}
Selenium	ND (0.005) U
Silver	ND (0.005) U
Vanadium	0.044 {ZW}
Zinc	0.29
VOC	
1,1,1-Trichloroethane	0.001
1,1-Dichloroethane	0.01
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	0.001 J
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	ND (0.001) U
SVOC	
Benzo(a)pyrene	ND (0.002) U

MW-4104	6/1/1990	7/1/1990	9/1/1990	3/1/1991	8/1/1994	12/1/2002
INORG						
Arsenic	0.02	0.016				
Barium	0.23	0.023				
Cadmium	ND (0.01) U	ND (0.01) U			ND (0.003) U	
Chromium	0.009	0.007			ND (0.0002) U	
Iron						3.9 {ZW}
Lead	0.006 {A}	ND (0.005) U			ND (0.05) U	
Manganese						0.074
Manganese (Dissolved)						0.033
Mercury	ND (0) U	ND (0) U				
Selenium	0.006	ND (0.005) U				
Silver	0.012	ND (0.001) U				
Zinc	0.018	0.018				
VOC						
1,1,1-Trichloroethane	ND (0) U	0.013	0.045	11 {A}		3.3 {A}
1,1-Dichloroethane	ND (0) U	ND (0) U	ND (0) U	0.088		0.3
1,1-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	2.2 {AC}		0.06 {A}
1,2-Dichloroethane	ND (0) U	ND (0) U	ND (0) U	0.005		ND (0.17)
Benzene	ND (0) U	ND (0) U	ND (0) U	0.009 {A}		ND (0.17)
Chloroform (Trichloromethane)	0.007	ND (0) U	ND (0) U	ND (0) U		ND (0.17)
cis-1,2-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	0.2 {A}		ND (0.17)
Ethylbenzene	0.083	ND (0) U	ND (0) U	0.008		ND (0.17)
Methylene chloride	ND (0) U	ND (0) U	ND (0) U	0.03 {A}		ND (0.83)
trans-1,2-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0.17)
Trichloroethene	ND (0) U	ND (0) U	0.001	0.037 {A}		ND (0.17)
Vinyl chloride						ND (0.17)

B-4273	11/1/2002 9.5-10.5(ft)
INORG	
Aluminum	22 {A}
Antimony	ND (0.01) U
Arsenic	0.072 {A}
Barium	0.25
Cadmium	0.001 J
Chromium	0.14 {A}
Cobalt	0.021
Iron	69.8 {A}
Lead	0.041 {A}
Magnesium	64.3
Manganese	2.3 {ZW}
Mercury	0.0003
Nickel	0.12 {A}
Selenium	ND (0.005) U
Silver	ND (0.005) U
Vanadium	0.064 {ZW}
Zinc	0.69
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethane	0.003
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) UJ
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	ND (0.001) U
SVOC	
Benzo(a)pyrene	ND (0.002) U

MW-4103	6/1/1990	7/1/1990	9/1/1990	3/1/1991	8/1/1994	3/1/2000	12/1/2002
INORG							
Arsenic	0.029	0.027					
Barium	0.34	0.039					
Cadmium	0.01 {A}	ND (0.01) U			ND (0.003) U		
Chromium	0.01	0.011			0.0003		
Lead	0.8 {A}	0.012 {A}			ND (0.05) U		
Mercury	ND (0) U	ND (0) U					
Selenium	0.8 {A}	0.012					
Silver	0.017	0.002					
Zinc	0.023	0.027					
VOC							
1,1,1-Trichloroethane	ND (0) U	0.13	ND (0) U	ND (0) U		ND (0) U	ND (0.003)
1,1-Dichloroethane	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0) U	ND (0.003)
1,1-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0) U	ND (0.003)
1,2-Dichloroethane	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0) U	ND (0.003)
Benzene	ND (0) U	ND (0) U	ND (0) U	ND (0) U			ND (0.003)
Chloroform (Trichloromethane)	ND (0) U	ND (0) U	ND (0) U	ND (0) U			ND (0.003)
cis-1,2-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0) U	ND (0.003)
Ethylbenzene	ND (0) U	ND (0) U	ND (0) U	ND (0) U			ND (0.003)
Methylene chloride	ND (0) U	ND (0) U	ND (0) U	ND (0) U			ND (0.012)
trans-1,2-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	ND (0) U			ND (0.003)
Trichloroethene	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0) U	ND (0.003)
Vinyl chloride						ND (0) U	ND (0.003)

MW-4112	5/1/1991	8/1/1994	12/1/2002
INORG			
Arsenic	0.001		
Barium	ND (0.01) U		
Cadmium	ND (0.01) U	ND (0.003) U	
Chromium	ND (0.002) U	0.0003	
Lead	ND (0.005) U	ND (0.05) U	
Mercury	ND (0) U		
Selenium	ND (0.001) U		
Silver	0.001		
Zinc	ND (0.001) U		
VOC			
1,1,1-Trichloroethane	ND (0) U/ND (0) U		ND (0.01)
1,1-Dichloroethane	ND (0) U/ND (0) U		ND (0.01)
1,1-Dichloroethene	ND (0) U/ND (0) U		ND (0.01)
1,2-Dichloroethane	ND (0) U/ND (0) U		ND (0.01)
Benzene	ND (0) U/ND (0) U		ND (0.01)
Chloroform (Trichloromethane)	ND (0) U/ND (0) U		ND (0.01)
cis-1,2-Dichloroethene	ND (0) U/ND (0) U		ND (0.01)
Ethylbenzene	ND (0) U/ND (0) U		ND (0.01)
Methylene chloride	ND (0) U/ND (0) U		ND (0.05)
trans-1,2-Dichloroethene	ND (0) U/ND (0) U		ND (0.01)
Trichloroethene	ND (0) U/ND (0) U		ND (0.01)
Vinyl chloride			ND (0.01)

MW-4102	6/1/1990	7/1/1990	9/1/1990	3/1/1991	12/1/1992	8/1/1994	12/1/2002
INORG							
Arsenic	0.015	0.013					
Barium	0.23	0.028					
Cadmium	0.01 {A}	ND (0.01) U				ND (0.003) U	
Chromium	0.005	0.009				ND (0.0002) U	
Lead	ND (0.005) U	0.006 {A}				ND (0.05) U	
Mercury	ND (0) U	ND (0) U					
Selenium	ND (0.005) U	0.006					
Silver	0.013	0.002					
Zinc	0.011	0.018					
VOC							
1,1,1-Trichloroethane	ND (0) U	ND (0) U	0.016	0.013			ND (0.002)
1,1-Dichloroethane	ND (0) U	ND (0) U	ND (0) U	ND (0) U			0.073
1,1-Dichloroethene	ND (0) U	ND (0) U	0.12 {A}	0.084 {A}			ND (0.002)
1,2-Dichloroethane	ND (0) U	ND (0) U	ND (0) U	ND (0) U			ND (0.002)
Benzene	ND (0) U	ND (0) U	ND (0) U	ND (0) U	ND (0.001) U		ND (0.002)
Chloroform (Trichloromethane)	ND (0) U	ND (0) U	ND (0) U	ND (0) U			ND (0.002)
cis-1,2-Dichloroethene	ND (0) U	ND (0) U	0.093 {A}	0.037			0.006
Ethylbenzene	ND (0) U	ND (0) U	ND (0) U	ND (0) U	ND (0.001) U		ND (0.002)
Methylene chloride	ND (0) U	ND (0) U	ND (0) U	ND (0) U			0.001
trans-1,2-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	ND (0) U			ND (0.002)
Trichloroethene	ND (0) U	ND (0) U	0.19 {A}	0.17 {A}			0.017 {A}
Vinyl chloride							0.001

B-4271	11/1/2002 9.5-10.5(ft)
INORG	
Aluminum	38.3 {A}
Antimony	ND (0.01) U
Arsenic	0.052
Barium	0.4
Cadmium	0.002
Chromium	0.43 {A}
Cobalt	0.035
Iron	107 {A}
Lead	0.069 {A}
Magnesium	60.6
Manganese	1.7 {ZW}
Mercury	0.012 {A}
Nickel	0.19 {A}
Selenium	ND (0.005) U
Silver	ND (0.005) U
Vanadium	0.13 {A}
Zinc	0.52
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethane	0.002
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	0.0004 J
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	ND (0.001) U
SVOC	
Benzo(a)pyrene	ND (0.002) U

B-4272	11/1/2002 10-12(ft)
INORG	
Aluminum	34.3 {A}
Antimony	ND (0.01) U
Arsenic	0.12 {A}
Barium	0.4
Cadmium	0.002 J
Chromium	0.61 {A}
Cobalt	0.047 {ZW}
Iron	95.7 {A}
Lead	0.05 {A}
Magnesium	83.6
Manganese	1.7 {ZW}
Mercury	0.0002
Nickel	0.45 {A}
Selenium	ND (0.005) U
Silver	ND (0.005) U
Vanadium	0.12 {A}
Zinc	0.43
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	ND (0.001) U
SVOC	
Benzo(a)pyrene	ND (0.002) U

MW-4611	5/1/2000
VOC	
1,1,1-Trichloroethane	ND (0) U/ND (0) U
1,1-Dichloroethane	ND (0) U/ND (0) U
1,1-Dichloroethene	ND (0) U/ND (0) U
1,2-Dichloroethane	ND (0) U/ND (0) U
cis-1,2-Dichloroethene	ND (0) U/ND (0) U
Trichloroethene	ND (0) U/ND (0) U
Vinyl chloride	ND (0) U/ND (0) U

MW-4108	10/1/1990	3/1/1991
VOC		
1,1,1-Trichloroethane	0.008/ND (0) U	0.001/0.001
1,1-Dichloroethane	ND (0) U/ND (0) U	ND (0) U/ND (0) U
1,1-Dichloroethene	ND (0) U/ND (0) U	ND (0) U/ND (0) U
1,2-Dichloroethane	0.017 {A}/ND (0) U	0.011 {A}/0.009 {A}
Benzene	ND (0) U/ND (0) U	ND (0) U/ND (0) U
Chloroform (Trichloromethane)	ND (0) U/ND (0) U	ND (0) U/ND (0) U
cis-1,2-Dichloroethene	0.05/ND (0) U	0.081 {A}/0.088 {A}
Ethylbenzene	ND (0) U/ND (0) U	ND (0) U/ND (0) U
Methylene chloride	ND (0) U/ND (0) U	ND (0) U/ND (0) U
trans-1,2-Dichloroethene	ND (0) U/ND (0) U	ND (0) U/ND (0) U
Trichloroethene	0.005/ND (0) U	0.005/0.004

MW-4107	10/1/1990	3/1/1991	5/1/1991	8/1/1994
INORG				
Arsenic			0.002	
Barium			0.012	
Cadmium			0.012 {A}	ND (0.003) U
Chromium			ND (0.002) U	ND (0.0002) U
Lead			ND (0.005) U	ND (0.05) U
Mercury			ND (0) U	
Selenium			ND (0.001) U	
Silver			0.001 {G}	
Zinc			ND (0.001) U	
VOC				
1,1,1-Trichloroethane	ND (0) U	ND (0) U	ND (0) U	
1,1-Dichloroethane	ND (0) U	ND (0) U	ND (0) U	
1,1-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	
1,2-Dichloroethane	ND (0) U	ND (0) U	ND (0) U	
Benzene	ND (0) U	ND (0) U	ND (0) U	
Chloroform (Trichloromethane)	ND (0) U	ND (0) U	ND (0) U	
cis-1,2-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	
Ethylbenzene	ND (0) U	ND (0) U	ND (0) U	
Methylene chloride	ND (0) U	ND (0) U	ND (0) U	
trans-1,2-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	
Trichloroethene	ND (0) U	ND (0) U	ND (0) U	

GP-4131	11/1/2002 12-13(ft) (M)
VOC	
1,1-Dichloroethene	0.439 {A}
Benzene	ND (0.001) U
Ethylbenzene	0.048
Trichloroethene	33.9 {AB}
Vinyl chloride	0.076 {A}

GP-4132	11/1/2002 11.5-12.5(ft) (M)
VOC	
1,1-Dichloroethene	0.026 {A}
Benzene	ND (0.001) U
Ethylbenzene	0.029
Trichloroethene	43.2 {AB}
Vinyl chloride	0.012 {A}

GP-4134	11/1/2002 8-12(ft) (M)
VOC	
1,1-Dichloroethene	0.018 {A}
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Trichloroethene	8.63 {A}
Vinyl chloride	0.008 {A}

GP-4133	11/1/2002 10-14(ft) (M)
VOC	
1,1-Dichloroethene	0.009 {A}
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Trichloroethene	5.69 {A}
Vinyl chloride	0.004 {A}

MW-4117	3/1/2000
VOC	
1,1,1-Trichloroethane	ND (0) U
1,1-Dichloroethane	ND (0) U
1,1-Dichloroethene	ND (0) U
1,2-Dichloroethane	ND (0) U
cis-1,2-Dichloroethene	ND (0) U
Trichloroethene	ND (0) U
Vinyl chloride	ND (0) U

MW-4610S	6/1/2002
INORG	
Aluminum	1.9 {ZW}
Antimony	ND (0.01) U
Arsenic	0.005 J
Barium	0.095 J
Cadmium	ND (0.002) U
Chromium	0.005 J
Cobalt	0.006 J
Iron	4.5 {ZW}
Lead	0.003
Magnesium	32.5
Manganese	2.4 {ZW}
Mercury	0.0001 J
Nickel	0.007 J
Selenium	ND (0.005) U
Silver	ND (0.001) U
Vanadium	0.004 J
Zinc	ND (0.02) U
VOC	
1,1,1-Trichloroethane	ND (0.007) U
1,1-Dichloroethane	ND (0.007) U
1,1-Dichloroethene	ND (0.007) U
1,2-Dichloroethane	ND (0.007) U
Benzene	0.045 {A}
Chloroform (Trichloromethane)	ND (0.007) U
cis-1,2-Dichloroethene	ND (0.007) U
Ethylbenzene	0.022
Methylene chloride	0.003 J
trans-1,2-Dichloroethene	ND (0.007) U
Trichloroethene	ND (0.007) U
Vinyl chloride	ND (0.007) U
SVOC	
Benzo(a)pyrene	ND (0.002) U/ND (0.001) U

MW-4610D	6/1/2002
INORG	
Aluminum	0.078 J
Antimony	ND (0.01) U
Arsenic	0.026
Barium	0.13
Cadmium	ND (0.002) U
Chromium	ND (0.005) U
Cobalt	0.002 J
Iron	2.7 {ZW}
Lead	ND (0.003) U
Magnesium	48.8
Manganese	0.071
Mercury	ND (0.0002) U
Nickel	0.006 J
Selenium	ND (0.005) U
Silver	ND (0.001) U
Vanadium	ND (0.005) U
Zinc	ND (0.02) U
VOC	
1,1,1-Trichloroethane	ND (0.002) U
1,1-Dichloroethane	ND (0.002) U
1,1-Dichloroethene	ND (0.002) U
1,2-Dichloroethane	ND (0.002) U
Benzene	0.001 J
Chloroform (Trichloromethane)	ND (0.002) U
cis-1,2-Dichloroethene	0.051
Ethylbenzene	ND (0.002) U
Methylene chloride	ND (0.01) U
trans-1,2-Dichloroethene	0.001 J
Trichloroethene	ND (0.002) U
Vinyl chloride	0.009 {A}
SVOC	
Benzo(a)pyrene	ND (0.002) U/ND (0.0002) U

GP-4023a	9/1/2001 22-23(ft)
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
n-Propylbenzene	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	ND (0.001) U

GP-4029	9/1/2001 25-26(ft)
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	0.001
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
n-Propylbenzene	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	ND (0.001) U

MW-4610	5/1/2000	9/1/2001	7/1/2002
INORG			
Aluminum			25.2 {A}
Antimony			ND (0.01) U
Arsenic			0.045
Barium			0.7
Cadmium			0.0003 J
Chromium			0.044 {G}
Cobalt			0.019
Iron			44.7 {A}
Lead			0.02 {A}
Magnesium			105
Manganese			0.89
Mercury			ND (0.0002) U
Nickel			0.047
Selenium			ND (0.005) U
Silver			ND (0.001) U
Vanadium			0.048 {GR}
Zinc			0.48
VOC			
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0) U	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0) U	ND (0.001) U	ND (0.001) U
Benzene		ND (0.001) U	0.001 J
Chloroform (Trichloromethane)		ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	0.005	0.009	0.007
Ethylbenzene		ND (0.001) U	ND (0.001) U
Methylene chloride		ND (0.005) U	ND (0.007) U
n-Propylbenzene		ND (0.001) U	
trans-1,2-Dichloroethene		ND (0.001) U	0.0003 J
Trichloroethene	ND (0) U	ND (0.001) U	ND (0.001) U
Vinyl chloride	0.083 {AG}	0.099 {AG}	0.049 {AG}
SVOC			
Benzo(a)pyrene			ND (0.0002) U/ND (0.002) U

GP-4028a	9/1/2001 25-26(ft)
VOC	
1,1,1-Trichloroethane	ND (0.001) U/ND (0.001) U
1,1-Dichloroethane	ND (0.001) U/ND (0.001) U
1,1-Dichloroethene	ND (0.001) U/ND (0.001) U
1,2-Dichloroethane	ND (0.001) U/ND (0.001) U
Benzene	ND (0.001) U/ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U/ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U/ND (0.001) U
Ethylbenzene	ND (0.001) U/ND (0.001) U
Methylene chloride	ND (0.005) U/ND (0.005) U
n-Propylbenzene	ND (0.001) U/ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U/ND (0.001) U
Trichloroethene	ND (0.001) U/ND (0.001) U
Vinyl chloride	ND (0.001) U/ND (0.001) U

GP-4026	9/1/2001 17-18(ft)	9/1/2001 25-26(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4027	9/1/2001 17-18(ft)	9/1/2001 25-26(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4025	9/1/2001 17-18(ft)	9/1/2001 25-26(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4024	9/1/2001 21-22(ft)
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
n-Propylbenzene	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	ND (0.001) U

GP-4012	9/1/2001 9-10(ft)	9/1/2001 22-23(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U/ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U/ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U/ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U/ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U/ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U/ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U/ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U/ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U/ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U/ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U/ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U/ND (0.001) U
Vinyl chloride	ND (0.001) U	0.004 {A}/0.003 {A}

GP-4014	9/1/2001 10-11(ft)	9/1/2001 22-23(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	0.015	0.001
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	0.019 {A}	0.011 {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

MW-4609	5/1/2000	6/1/2002
INORG		
Aluminum		0.73 {ZW}
Antimony		ND (0.01) U
Arsenic		0.011
Barium		0.055 J
Cadmium		ND (0.002) U
Chromium		ND (0.005) U
Cobalt		0.002 J
Iron		3.6 {ZW}
Lead		ND (0.003) U
Magnesium		16.7
Manganese		5.7 {A}
Mercury		0.0001 J
Nickel		ND (0.025) U
Selenium		ND (0.005) U
Silver		ND (0.001) U
Vanadium		0.001 J
Zinc		0.11
VOC		
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U
1,2-Dichloroethane	ND (0) U	ND (0.001) U
Benzene		ND (0.001) U
Chloroform (Trichloromethane)		ND (0.001) U
cis-1,2-Dichloroethene	ND (0) U	ND (0.001) U
Ethylbenzene		ND (0.001) U
Methylene chloride		ND (0.005) U
trans-1,2-Dichloroethene		ND (0.001) U
Trichloroethene	ND (0) U	ND (0.001) U
Vinyl chloride	ND (0) U	ND (0.001) U
SVOC		
Benzo(a)pyrene		ND (0.0002) U/ND (0.002) U

MW-4608	5/1/2000	6/1/2002
INORG		
Aluminum		0.35 {ZW}
Antimony		ND (0.01) U
Arsenic		ND (0.01) U
Barium		0.018 J
Cadmium		ND (0.002) U
Chromium		0.004 J
Cobalt		ND (0.007) U
Iron		0.57
Lead		ND (0.003) U
Magnesium		6.5
Manganese		0.011 J
Mercury		ND (0.0002) U
Nickel		ND (0.025) U
Selenium		ND (0.005) U
Silver		ND (0.001) U
Vanadium		0.001 J
Zinc		0.055
VOC		
1,1,1-Trichloroethane	ND (0) U	0.0002 J
1,1-Dichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U
1,2-Dichloroethane	ND (0) U	ND (0.001) U
Benzene		ND (0.001) U
Chloroform (Trichloromethane)		ND (0.001) U
cis-1,2-Dichloroethene	ND (0) U	ND (0.001) U
Ethylbenzene		ND (0.001) U
Methylene chloride		ND (0.005) U
trans-1,2-Dichloroethene		ND (0.001) U
Trichloroethene	ND (0) U	ND (0.001) U
Vinyl chloride	ND (0) U	ND (0.001) U
SVOC		
Benzo(a)pyrene		ND (0.002) U/ND (0.0002) U

MW-4622S	7/1/2002
INORG	
Aluminum	1.9 {ZW}/2.7 {ZW}
Antimony	ND (0.01) U/ND (0.01) U
Arsenic	0.014/0.012
Barium	0.22/0.2
Cadmium	0.001 J/0.0004 J
Chromium III (Trivalent)	0.003/0.002 J
Chromium, Hexavalent	ND (0.02) U/ND (0.02) U
Cobalt	0.016/0.018
Iron	4.2 {ZW}/3 {ZW}
Lead	0.002 J/ND (0.003) U
Magnesium	91.7/86
Manganese	0.73/0.67
Mercury	ND (0.0002) U/ND (0.0002) U
Nickel	0.041/0.044
Selenium	ND (0.005) U/ND (0.005) U
Silver	ND (0.001) U/ND (0.001) U
Vanadium	0.005 {ZW}/0.004 J
Zinc	0.47/0.45
VOC	
1,1,1-Trichloroethane	1.1 {A}/1.5 {A}
1,1-Dichloroethane	3.4 {A}/2.7 {A}
1,1-Dichloroethene	0.18 {A}/0.12 {A}
1,2-Dichloroethane	0.033 J {A}/0.031 J {A}
Benzene	ND (0.1) U/ND (0.083) U
Chloroform (Trichloromethane)	ND (0.1) U/ND (0.083) U
cis-1,2-Dichloroethene	0.13 {A}/0.091 {A}
Ethylbenzene	ND (0.1) U/ND (0.083) U
Methylene chloride	0.044 J {A}/ND (0.42) U
trans-1,2-Dichloroethene	ND (0.1) U/ND (0.083) U
Trichloroethene	ND (0.1) U/ND (0.083) U
Vinyl chloride	ND (0.1) U/ND (0.083) U
SVOC	
Benzo(a)pyrene	ND (0.0002) U/ND (0.002) U/ND (0.0002) U/ND (0.002) U

MW-4622D	7/1/2002
INORG	
Aluminum	1.2 {ZW}
Antimony	ND (0.01) U
Arsenic	0.003 J
Barium	0.12
Cadmium	ND (0.002) U
Chromium III (Trivalent)	0.003 J
Chromium, Hexavalent	ND (0.02) U
Cobalt	0.002 J
Iron	3.4 {ZW}
Lead	ND (0.003) U
Magnesium	43.8
Manganese	0.074
Mercury	ND (0.0002) U
Nickel	0.004 J
Selenium	ND (0.005) U
Silver	ND (0.001) U
Vanadium	0.003 J
Zinc	ND (0.02) U
VOC	
1,1,1-Trichloroethane	0.002
1,1-Dichloroethane	0.004
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	0.005 {A}
SVOC	
Benzo(a)pyrene	ND (0.002) U/ND (0.0002) U

MW-4119	12/1/2002
INORG	
Iron	12.9 {A}
Manganese	0.23
Manganese (Dissolved)	0.033
VOC	
1,1,1-Trichloroethane	ND (0.001)
1,1-Dichloroethane	ND (0.001)
1,1-Dichloroethene	ND (0.001)
1,2-Dichloroethane	ND (0.001)
Benzene	ND (0.001)
Chloroform (Trichloromethane)	ND (0.001)
cis-1,2-Dichloroethene	ND (0.001)
Ethylbenzene	ND (0.001)
Methylene chloride	ND (0.005)
trans-1,2-Dichloroethene	ND (0.001)
Trichloroethene	ND (0.001)
Vinyl chloride	ND (0.001)

MW-4101	6/1/1990	7/1/1990	9/1/1990	3/1/1991	8/1/1994	12/1/2002
INORG						
Arsenic	0.006	0.005				
Barium	0.012	0.01				
Cadmium	ND (0.01) U	ND (0.01) U			ND (0.003) U	
Chromium	0.006	0.005			ND (0.0002) U	
Lead	ND (0.005) U	ND (0.005) U			ND (0.05) U	
Mercury	ND (0) U	ND (0) U				
Selenium	ND (0.005) U	ND (0.005) U				
Silver	0.003	ND (0.001) U				
Zinc	0.007	0.003				
VOC						
1,1,1-Trichloroethane	ND (0) U	ND (0) U	ND (0) U	ND (0) U		0.011
1,1-Dichloroethane	ND (0) U	ND (0) U	ND (0) U	ND (0) U		0.36
1,1-Dichloroethene	ND (0) U	0.012 {A}	0.075 {A}	0.037 {A}		0.005
1,2-Dichloroethane	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0.01)
Benzene	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0.01)
Chloroform (Trichloromethane)	0.009	0.046	ND (0) U	ND (0) U		ND (0.01)
cis-1,2-Dichloroethene	ND (0) U	ND (0) U	0.27 {A}	0.097 {A}		ND (0.01)
Ethylbenzene	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0.01)
Methylene chloride	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0.05)
trans-1,2-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0.01)
Trichloroethene	ND (0) U	0.005	0.007 {A}	0.005		ND (0.01)
Vinyl chloride						0.018 {A}

MW-4110	10/1/1990	3/1/1991	8/1/1994	12/1/2002
INORG				
Cadmium			ND (0.003) U	
Chromium			ND (0.0002) U	
Lead			ND (0.05) U	
VOC				
1,1,1-Trichloroethane	ND (0) U	ND (0) U		ND (0.001)
1,1-Dichloroethane	ND (0) U	ND (0) U		0.009
1,1-Dichloroethene	ND (0) U	ND (0) U		ND (0.001)
1,2-Dichloroethane	ND (0) U	ND (0) U		ND (0.001)
Benzene	ND (0) U	ND (0) U		ND (0.001)
Chloroform (Trichloromethane)	ND (0) U	ND (0) U		ND (0.001)
cis-1,2-Dichloroethene	ND (0) U	ND (0) U		0.001
Ethylbenzene	ND (0) U	ND (0) U		ND (0.001)
Methylene chloride	ND (0) U	ND (0) U		ND (0.005)
trans-1,2-Dichloroethene	ND (0) U	ND (0) U		ND (0.001)
Trichloroethene	0.043 {A}	ND (0) U		ND (0.001)
Vinyl chloride				0.001

MW-4113	5/1/1991	8/1/1994	6/1/2002	12/1/2002
INORG				
Aluminum			3.9 {ZW}	
Antimony			0.006 J	
Arsenic	ND (0.001) U		0.013	
Barium	ND (0.01) U		0.16	
Cadmium	ND (0.01) U	ND (0.003) U	ND (0.002) U	
Chromium	ND (0.002) U	ND (0.0002) U	0.009	
Cobalt			0.003 J	
Iron			10.2 {A}	
Lead	ND (0.005) U	ND (0.05) U	0.019 {A}	
Magnesium			34.6	
Manganese			0.36	
Mercury	ND (0) U		0.0002	
Nickel			0.015 J	
Selenium	ND (0.001) U		ND (0.005) U	
Silver	0.001		ND (0.001) U	
Vanadium			0.008 {ZW}	
Zinc	ND (0.001) U		0.28	
VOC				
1,1,1-Trichloroethane	ND (0) U		ND (0.001) U	ND (0.02)
1,1-Dichloroethane	ND (0) U		0.0002 J	ND (0.02)
1,1-Dichloroethene	ND (0) U		ND (0.001) U	ND (0.02)
1,2-Dichloroethane	ND (0) U		ND (0.001) U	ND (0.02)
Benzene	ND (0) U		ND (0.001) U	ND (0.02)
Chloroform (Trichloromethane)	ND (0) U		ND (0.001) U	ND (0.02)
cis-1,2-Dichloroethene	ND (0) U		0.0004 J	ND (0.02)
Ethylbenzene	ND (0) U		0.0002 J	ND (0.02)
Methylene chloride	ND (0) U		ND (0.005) U	ND (0.1)
trans-1,2-Dichloroethene	ND (0) U		ND (0.001) U	ND (0.02)
Trichloroethene	ND (0) U		0.001 J	ND (0.02)
Vinyl chloride			0.001 J	ND (0.02)
SVOC				
Benzo(a)pyrene			ND (0.0002) U/ND (0.002) U	

MW-4621D	7/1/2002
INORG	
Aluminum	0.56 {ZW}
Antimony	ND (0.01) U
Arsenic	0.028
Barium	0.069 J
Cadmium	ND (0.002) U
Chromium	0.002 J
Cobalt	ND (0.007) U
Iron	0.62
Lead	ND (0.003) U
Magnesium	7.9
Manganese	0.013 J
Mercury	ND (0.0002) U
Nickel	ND (0.025) U
Selenium	ND (0.005) U
Silver	ND (0.001) U
Vanadium	0.014 {ZW}
Zinc	ND (0.02) U
VOC	
1,1,1-Trichloroethane	0.001 J
1,1-Dichloroethane	0.001 J
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	0.001 J
cis-1,2-Dichloroethene	0.002
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	0.001
Vinyl chloride	ND (0.001) U
SVOC	
Benzo(a)pyrene	ND (0.002) U/ND (0.0002) U

MW-4106	6/1/1990	7/1/1990	9/1/1990	3/1/1991	8/1/1994	6/1/2002	12/1/2002
INORG							
Aluminum						0.33 {ZW}	
Antimony						ND (0.01) U	
Arsenic	0.039	0.029				0.021	
Barium	0.47	0.037				0.1	
Cadmium	0.01 {A}	ND (0.01) U			ND (0.003) U	0.004	
Chromium	0.017	0.012			ND (0.0002) U	0.002 J	
Cobalt						0.002 J	
Iron						4.8 {ZW}	9.4 {A}
Lead	0.015 {A}	0.01 {A}			ND (0.05) U	ND (0.003) U	
Magnesium						52.4	
Manganese						0.85	0.65
Manganese (Dissolved)							0.66
Mercury	ND (0) U	ND (0) U				0.0001 J	
Nickel						0.006 J	
Selenium	0.015	0.01				ND (0.005) U	
Silver	0.023	0.001				ND (0.001) U	
Vanadium						0.001 J	
Zinc	0.033	0.023				1.9	
VOC							
1,1,1-Trichloroethane	ND (0) U	ND (0) U	0.17	7.5 {A}		0.39 {A}	0.27 {A}
1,1-Dichloroethane	ND (0) U	ND (0) U	0.007	1.1 {ZW}		0.039	0.042
1,1-Dichloroethene	ND (0) U	0.062 {A}	ND (0) U	0.44 {A}		0.025 J {A}	0.023 {A}
1,2-Dichloroethane	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0.033) U	ND (0.012)
Benzene	ND (0) U	ND (0) U	ND (0) U	ND (0) U		ND (0.033) U	ND (0.012)
Chloroform (Trichloromethane)	0.67 {A}	0.063	ND (0) U	0.023		ND (0.033) U	0.011
cis-1,2-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	0.44 {A}		0.44 {A}	0.18 {A}
Ethylbenzene	ND (0) U	ND (0) U	ND (0) U	0.006		ND (0.033) U	ND (0.012)
Methylene chloride	5 {A}	ND (0) U	ND (0) U	0.01 {A}		ND (0.17) U	ND (0.062)
trans-1,2-Dichloroethene	ND (0) U	ND (0) U	ND (0) U	0.035		0.017 J	0.007
Trichloroethene	1.1 {A}	0.3 {A}	0.46 {A}	3.4 {A}		0.91 {A}	0.2 {A}
Vinyl chloride						0.2 {A}	0.064 {A}
SVOC							
Benzo(a)pyrene						ND (0.0002) UJ/ND (0.0002) UJ/ND (0.002) U	

MW-4111	5/1/1991	8/1/1994
INORG		
Arsenic	ND (0.001) U	
Barium	ND (0.01) U	
Cadmium	ND (0.01) U	ND (0.003) U
Chromium	ND (0.002) U	ND (0.0002) U
Lead	0.005 {A}	ND (0.05) U
Mercury	ND (0) U	
Selenium	ND (0.001) U	
Silver	0.001	
Zinc	0.001	
VOC		
1,1,1-Trichloroethane	ND (0) U	
1,1-Dichloroethane	ND (0) U	
1,1-Dichloroethene	ND (0) U	
1,2-Dichloroethane	ND (0) U	
Benzene	ND (0) U	
Chloroform (Trichloromethane)	ND (0) U	
cis-1,2-Dichloroethene	ND (0) U	
Ethylbenzene	ND (0) U	
Methylene chloride	ND (0) U	
trans-1,2-Dichloroethene	ND (0) U	
Trichloroethene	ND (0) U	

	6/1/2002
	0.16 J/0.15 J
	ND (0.01) U/ND (0.01) U
	ND (0.01) U/ND (0.01) U
	0.12/0.12
	0.001 J/0.001 J
	ND (0.005) U/ND (0.005) U
	0.006 J/0.006 J
	0.23/0.2
	ND (0.003) U/ND (0.003) U
	45.6/45.3
	0.61/0.62
	ND (0.0002) U/ND (0.0002) U
	0.046/0.056
	ND (0.005) U/ND (0.005) U
	0.0002 J/ND (0.001) U
	ND (0.005) U/ND (0.005) U
	0.21/0.15
	ND (0.001) U/ND (0.001) U
	0.0002 J/0.0002 J
	ND (0.001) U/ND (0.001) U
	ND (0.001) U/ND (0.001) U
	ND (0.001) U/ND (0.001) U
	ND (0.001) U/ND (0.001) U
	ND (0.001) U/ND (0.001) U
	ND (0.001) U/ND (0.001) U
	ND (0.005) U/ND (0.005) U
	ND (0.001) U/ND (0.001) U
	ND (0.001) U/ND (0.001) U
	ND (0.001) U/ND (0.001) U
	ND (0.0002) U/ND (0.0002) U/ND (0.002) U/ND (0.002) U

NOTES:

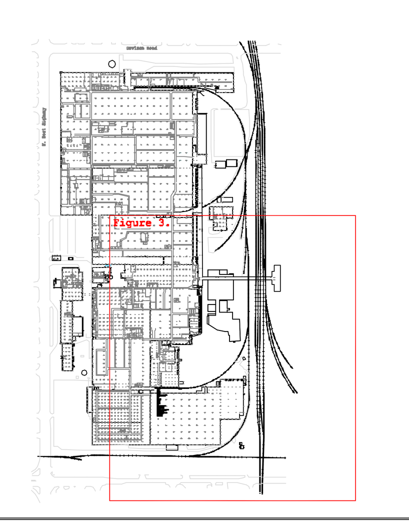
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   A – Exceeds Industrial Drinking Water Screening Criteria
   AB – Exceeds Industrial Drinking Water and Groundwater Contact Screening Criteria
   AC – Exceeds Industrial Drinking Water and Industrial Volatilization to Indoor Air Screening Criteria
   AG – Exceeds Industrial Drinking Water and GSI (Ecological) Screening Criteria
   G or GR – Exceeds GSI (Ecological) Screening Criteria
   D – Exceeds Residential Drinking Water Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. Potentiometric Surface Contours are inferred between measured points. See Figure 3 for site wide Potentiometric Surface Contours.
7. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND:

- MW-4611 Abandoned Monitoring Well
- MW-4107 Monitoring Well (Second Saturated Zone)
- MW-4107 Monitoring Well (First Saturated Zone)
- GP-4001 Direct Push Delineation Boring Location
- B-4271 Field Event #1 Boring Location
- 750.5 Estimated Potentiometric Surface Contours for First Saturated Zone

0 25 50 100 150

SCALE IN FEET



HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

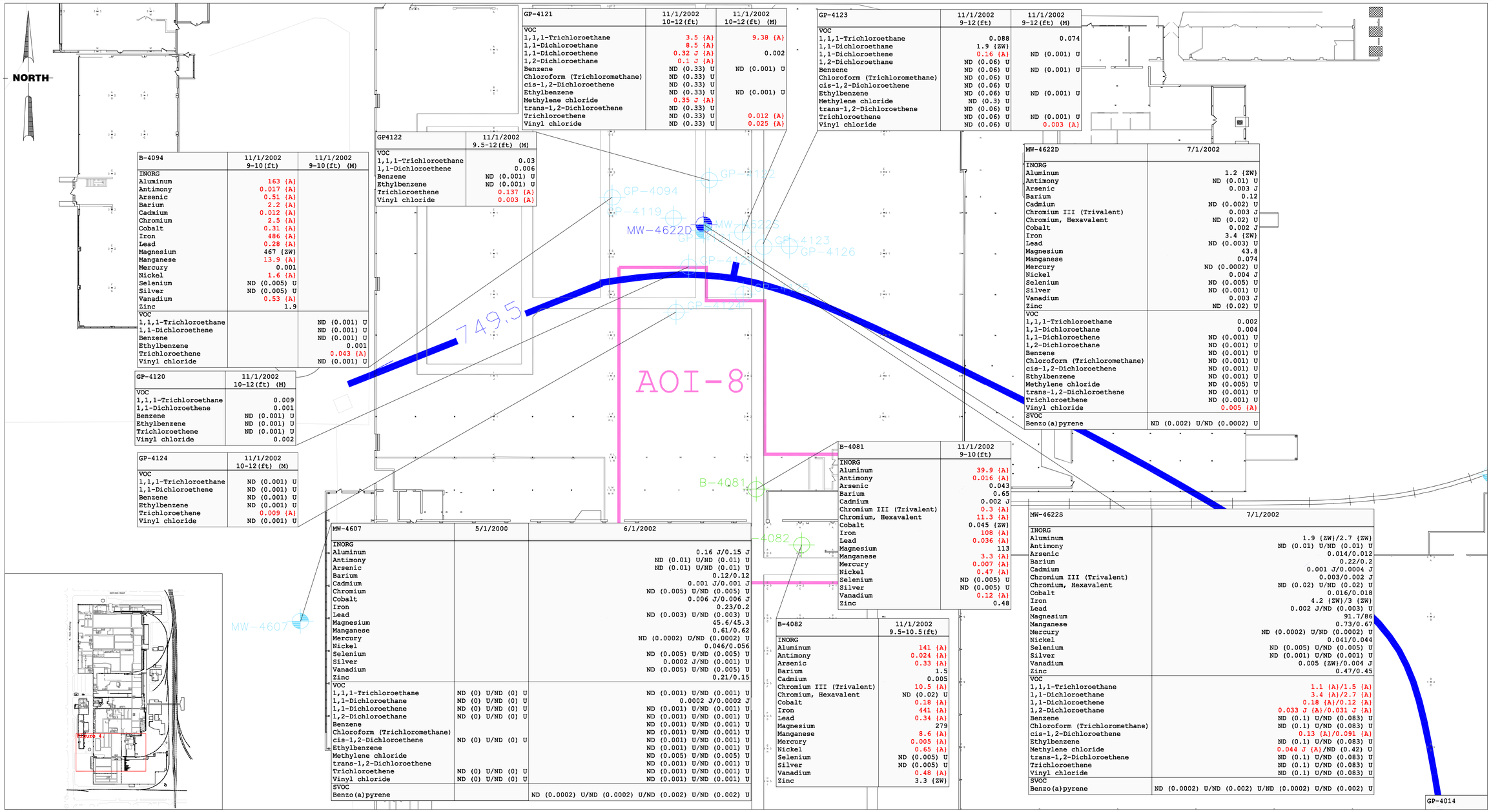
GROUNDWATER ANALYTICAL RESULTS
AOI-26 AND AOI-27

SCALE: AS SHOWN

March 28, 2003

FIGURE 3B

G:\49017\017\posting\FE1_GW_Posting_RCP.dwg (Dort_Chembox_20030205.zip)



B-4094	11/1/2002 9-10(ft)	11/1/2002 9-10(ft) (M)
INORG		
Aluminum	163 {A}	
Antimony	0.017 {A}	
Arsenic	0.51 {A}	
Barium	2.2 {A}	
Cadmium	0.012 {A}	
Chromium	2.5 {A}	
Cobalt	0.31 {A}	
Iron	486 {A}	
Lead	0.28 {A}	
Magnesium	467 {ZW}	
Manganese	13.9 {A}	
Mercury	0.001	
Nickel	1.6 {A}	
Selenium	ND (0.005) U	
Silver	ND (0.005) U	
Vanadium	0.53 {A}	
Zinc	1.9	
VOC		
1,1,1-Trichloroethane		ND (0.001) U
1,1-Dichloroethene		ND (0.001) U
Benzene		ND (0.001) U
Ethylbenzene		0.001
Trichloroethene		0.043 {A}
Vinyl chloride		ND (0.001) U

GP-4120	11/1/2002 10-12(ft) (M)
VOC	
1,1,1-Trichloroethane	0.009
1,1-Dichloroethene	0.001
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	0.002

GP-4124	11/1/2002 10-12(ft) (M)
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Trichloroethene	0.009 {A}
Vinyl chloride	ND (0.001) U

GP-4121	11/1/2002 10-12(ft)	11/1/2002 10-12(ft) (M)
VOC		
1,1,1-Trichloroethane	3.5 {A}	9.38 {A}
1,1-Dichloroethane	8.5 {A}	
1,1-Dichloroethene	0.32 J {A}	0.002
1,2-Dichloroethane	0.1 J {A}	
Benzene	ND (0.33) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.33) U	
cis-1,2-Dichloroethene	ND (0.33) U	
Ethylbenzene	ND (0.33) U	ND (0.001) U
Methylene chloride	0.35 J {A}	
trans-1,2-Dichloroethene	ND (0.33) U	
Trichloroethene	ND (0.33) U	0.012 {A}
Vinyl chloride	ND (0.33) U	0.025 {A}

GP4122	11/1/2002 9.5-12(ft) (M)
VOC	
1,1,1-Trichloroethane	0.03
1,1-Dichloroethene	0.006
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Trichloroethene	0.137 {A}
Vinyl chloride	0.003 {A}

GP-4123	11/1/2002 9-12(ft)	11/1/2002 9-12(ft) (M)
VOC		
1,1,1-Trichloroethane	0.088	0.074
1,1-Dichloroethane	1.9 {ZW}	
1,1-Dichloroethene	0.16 {A}	ND (0.001) U
1,2-Dichloroethane	ND (0.06) U	
Benzene	ND (0.06) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.06) U	
cis-1,2-Dichloroethene	ND (0.06) U	
Ethylbenzene	ND (0.06) U	ND (0.001) U
Methylene chloride	ND (0.3) U	
trans-1,2-Dichloroethene	ND (0.06) U	
Trichloroethene	ND (0.06) U	ND (0.001) U
Vinyl chloride	ND (0.06) U	0.003 {A}

MW-4622D	7/1/2002
INORG	
Aluminum	1.2 {ZW}
Antimony	ND (0.01) U
Arsenic	0.003 J
Barium	0.12
Cadmium	ND (0.002) U
Chromium III (Trivalent)	0.003 J
Chromium, Hexavalent	ND (0.02) U
Cobalt	0.002 J
Iron	3.4 {ZW}
Lead	ND (0.003) U
Magnesium	43.8
Manganese	0.074
Mercury	ND (0.0002) U
Nickel	0.004 J
Selenium	ND (0.005) U
Silver	ND (0.001) U
Vanadium	0.003 J
Zinc	ND (0.02) U
VOC	
1,1,1-Trichloroethane	0.002
1,1-Dichloroethane	0.004
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	0.005 {A}
SVOC	
Benzo(a)pyrene	ND (0.002) U/ND (0.0002) U

B-4081	11/1/2002 9-10(ft)
INORG	
Aluminum	39.9 {A}
Antimony	0.016 {A}
Arsenic	0.043
Barium	0.65
Cadmium	0.002 J
Chromium III (Trivalent)	0.3 {A}
Chromium, Hexavalent	11.3 {A}
Cobalt	0.045 {ZW}
Iron	108 {A}
Lead	0.036 {A}
Magnesium	113
Manganese	3.3 {A}
Mercury	0.007 {A}
Nickel	0.47 {A}
Selenium	ND (0.005) U
Silver	ND (0.005) U
Vanadium	0.12 {A}
Zinc	0.48

B-4082	11/1/2002 9.5-10.5(ft)
INORG	
Aluminum	141 {A}
Antimony	0.024 {A}
Arsenic	0.33 {A}
Barium	1.5
Cadmium	0.005
Chromium III (Trivalent)	10.5 {A}
Chromium, Hexavalent	ND (0.02) U
Cobalt	0.18 {A}
Iron	441 {A}
Lead	0.34 {A}
Magnesium	279
Manganese	8.6 {A}
Mercury	0.005 {A}
Nickel	0.65 {A}
Selenium	ND (0.005) U
Silver	ND (0.005) U
Vanadium	0.48 {A}
Zinc	3.3 {ZW}

MW-4607	5/1/2000	6/1/2002
INORG		
Aluminum		0.16 J/0.15 J
Antimony		ND (0.01) U/ND (0.01) U
Arsenic		ND (0.01) U/ND (0.01) U
Barium		0.12/0.12
Cadmium		0.001 J/0.001 J
Chromium		ND (0.005) U/ND (0.005) U
Cobalt		0.006 J/0.006 J
Iron		0.23/0.2
Lead		ND (0.003) U/ND (0.003) U
Magnesium		45.6/45.3
Manganese		0.61/0.62
Mercury		ND (0.0002) U/ND (0.0002) U
Nickel		0.046/0.056
Selenium		ND (0.005) U/ND (0.005) U
Silver		0.0002 J/ND (0.001) U
Vanadium		ND (0.005) U/ND (0.005) U
Zinc		0.21/0.15
VOC		
1,1,1-Trichloroethane	ND (0) U/ND (0) U	ND (0.001) U/ND (0.001) U
1,1-Dichloroethane	ND (0) U/ND (0) U	0.0002 J/0.0002 J
1,1-Dichloroethene	ND (0) U/ND (0) U	ND (0.001) U/ND (0.001) U
1,2-Dichloroethane	ND (0) U/ND (0) U	ND (0.001) U/ND (0.001) U
Benzene		ND (0.001) U/ND (0.001) U
Chloroform (Trichloromethane)		ND (0.001) U/ND (0.001) U
cis-1,2-Dichloroethene	ND (0) U/ND (0) U	ND (0.001) U/ND (0.001) U
Ethylbenzene		ND (0.001) U/ND (0.001) U
Methylene chloride		ND (0.005) U/ND (0.005) U
trans-1,2-Dichloroethene		ND (0.001) U/ND (0.001) U
Trichloroethene	ND (0) U/ND (0) U	ND (0.001) U/ND (0.001) U
Vinyl chloride	ND (0) U/ND (0) U	ND (0.001) U/ND (0.001) U
SVOC		
Benzo(a)pyrene		ND (0.0002) U/ND (0.0002) U/ND (0.002) U/ND (0.002) U

MW-4622S	7/1/2002
INORG	
Aluminum	1.9 {ZW}/2.7 {ZW}
Antimony	ND (0.01) U/ND (0.01) U
Arsenic	0.014/0.012
Barium	0.22/0.2
Cadmium	0.001 J/0.0004 J
Chromium III (Trivalent)	0.003/0.002 J
Chromium, Hexavalent	ND (0.02) U/ND (0.02) U
Cobalt	0.016/0.018
Iron	4.2 {ZW}/3 {ZW}
Lead	0.002 J/ND (0.003) U
Magnesium	91.7/86
Manganese	0.73/0.67
Mercury	ND (0.0002) U/ND (0.0002) U
Nickel	0.041/0.044
Selenium	ND (0.005) U/ND (0.005) U
Silver	ND (0.001) U/ND (0.001) U
Vanadium	0.005 {ZW}/0.004 J
Zinc	0.47/0.45
VOC	
1,1,1-Trichloroethane	1.1 {A}/1.5 {A}
1,1-Dichloroethane	3.4 {A}/2.7 {A}
1,1-Dichloroethene	0.18 {A}/0.12 {A}
1,2-Dichloroethane	0.033 J {A}/0.031 J {A}
Benzene	ND (0.1) U/ND (0.083) U
Chloroform (Trichloromethane)	ND (0.1) U/ND (0.083) U
cis-1,2-Dichloroethene	0.13 {A}/0.091 {A}
Ethylbenzene	ND (0.1) U/ND (0.083) U
Methylene chloride	0.044 J {A}/ND (0.42) U
trans-1,2-Dichloroethene	ND (0.1) U/ND (0.083) U
Trichloroethene	ND (0.1) U/ND (0.083) U
Vinyl chloride	ND (0.1) U/ND (0.083) U
SVOC	
Benzo(a)pyrene	ND (0.0002) U/ND (0.002) U/ND (0.0002) U/ND (0.002) U

NOTES:
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   A – Exceeds Industrial Drinking Water Screening Criteria
   AB – Exceeds Industrial Drinking Water and Groundwater Contact Screening Criteria
   AC – Exceeds Industrial Drinking Water and Industrial Volatilization to Indoor Air Screening Criteria
   AG – Exceeds Industrial Drinking Water and GSI (Ecological) Screening Criteria
   G or GR – Exceeds GSI (Ecological) Screening Criteria
   Z – Exceeds Residential Drinking Water Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. Potentiometric Surface Contours are inferred between measured points. See Figure 3 for site wide Potentiometric Surface Contours.
7. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND:
- MW-4107 Monitoring Well (Second Saturated Zone)
- MW-4107 Monitoring Well (First Saturated Zone)
- GP-4001 Direct Push Delineation Boring Location
- B-4271 Field Event #1 Boring Location
- Estimated Potentiometric Surface Contours for First Saturated Zone

0 10 20 40 60
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

GROUNDWATER ANALYTICAL RESULTS
BUILDING 4082 AND AOI-8 FORMER
HARD CHROME PLATING LINE

SCALE: AS SHOWN
March 28, 2003

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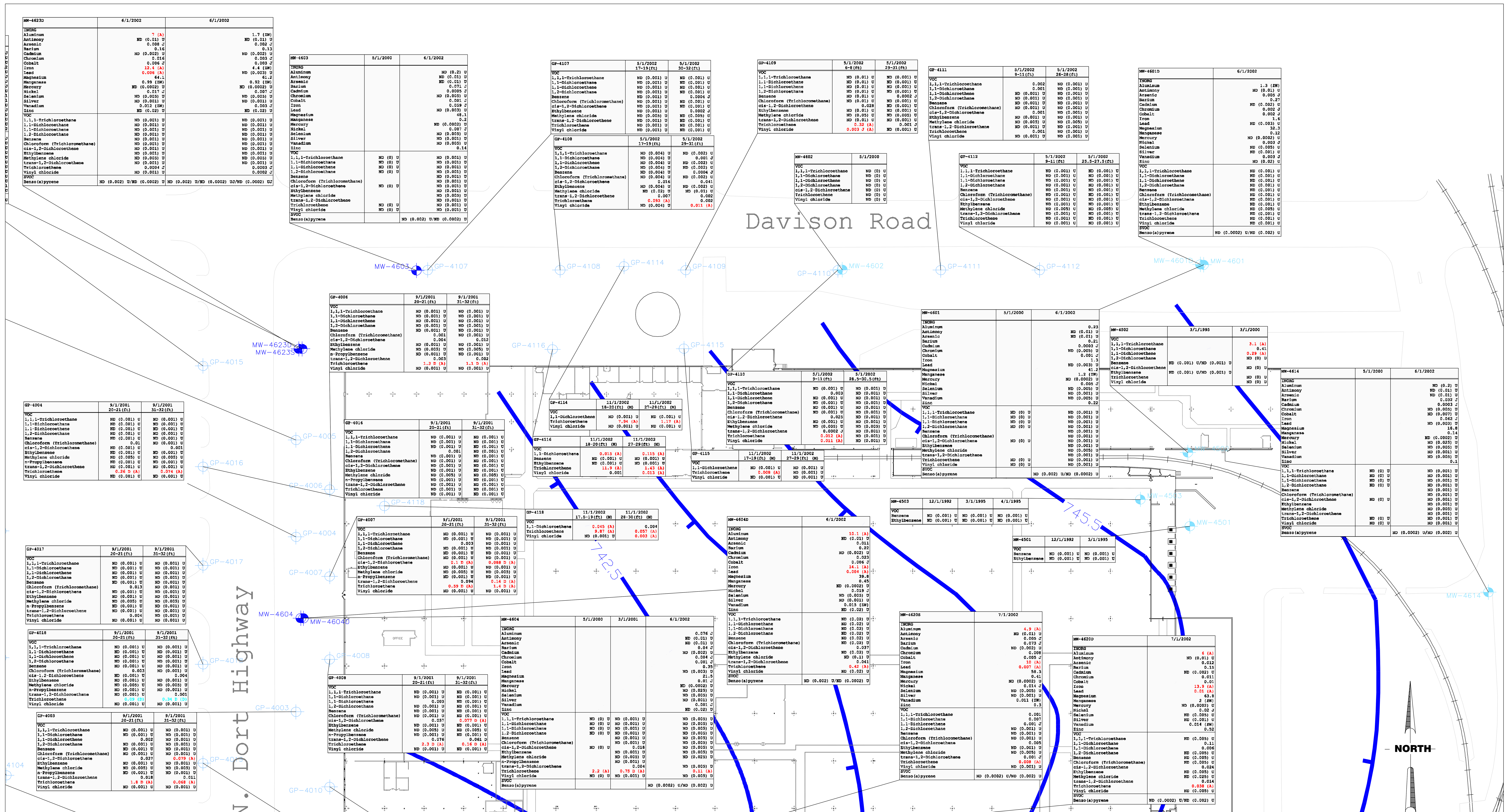
FIGURE 4B



MW-4623D	6/1/2002	6/1/2002
INORG		
Aluminum	7 {A}	1.7 {ZW}
Antimony	ND (0.01) U	ND (0.01) U
Arsenic	0.008 J	0.002 J
Barium	0.16	0.13
Cadmium	ND (0.002) U	ND (0.002) U
Chromium	0.016	0.003 J
Cobalt	0.006 J	0.003 J
Iron	12.4 {A}	4.4 {ZW}
Lead	0.006 {A}	ND (0.003) U
Magnesium	64.1	61.2
Manganese	0.99 {ZW}	0.92 {ZW}
Mercury	ND (0.0002) U	ND (0.0002) U
Nickel	0.017 J	0.007 J
Selenium	ND (0.005) U	ND (0.005) U
Silver	ND (0.001) U	ND (0.001) U
Vanadium	0.012 {ZW}	0.003 J
Zinc	ND (0.02) U	ND (0.02) U
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	0.0004 J	0.0003 J
Vinyl chloride	ND (0.001) U	0.0002 J
SVOC		
Benzo(a)pyrene	ND (0.002) U/ND (0.0002) U	ND (0.002) U/ND (0.0002) UJ/ND (0.0002) UJ

MW-4603	5/1/2000	6/1/2002
INORG		
Aluminum		ND (0.2) U
Antimony		ND (0.01) U
Arsenic		ND (0.01) U
Barium		0.071 J
Cadmium		0.0005 J
Chromium		ND (0.005) U
Cobalt		0.001 J
Iron		0.059 J
Lead		ND (0.003) U
Magnesium		48.1
Manganese		0.2
Mercury		ND (0.0002) U
Nickel		0.007 J
Selenium		ND (0.005) U
Silver		ND (0.001) U
Vanadium		ND (0.005) U
Zinc		0.14
VOC		
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U
1,2-Dichloroethane	ND (0) U	ND (0.001) U
Benzene		ND (0.001) U
Chloroform (Trichloromethane)		ND (0.001) U
cis-1,2-Dichloroethene	ND (0) U	ND (0.001) U
Ethylbenzene		ND (0.001) U
Methylene chloride		ND (0.005) U
trans-1,2-Dichloroethene		ND (0.001) U
Trichloroethene	ND (0) U	ND (0.001) U
Vinyl chloride	ND (0) U	ND (0.001) U
SVOC		
Benzo(a)pyrene		ND (0.002) U/ND (0.0002) U

GP-4107	5/1/2002 17-19(ft)	5/1/2002 30-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	0.0004 J
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	0.0002 J
Methylene chloride	ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4108	5/1/2002 17-19(ft)	5/1/2002 29-31(ft)
VOC		
1,1,1-Trichloroethane	ND (0.004) U	ND (0.002) U
1,1-Dichloroethane	ND (0.004) U	0.001 J
1,1-Dichloroethene	ND (0.004) U	ND (0.002) U
1,2-Dichloroethane	ND (0.004) U	ND (0.002) U
Benzene	ND (0.004) U	0.0004 J
Chloroform (Trichloromethane)	ND (0.004) U	ND (0.002) U
cis-1,2-Dichloroethene	0.016	0.041
Ethylbenzene	ND (0.004) U	ND (0.002) U
Methylene chloride	ND (0.02) U	ND (0.01) U
trans-1,2-Dichloroethene	0.007	0.002
Trichloroethene	0.093 {A}	0.002
Vinyl chloride	ND (0.004) U	0.011 {A}

GP-4109	5/1/2002 6-8(ft)	5/1/2002 29-31(ft)
VOC		
1,1,1-Trichloroethane	ND (0.01) U	ND (0.001) U
1,1-Dichloroethane	ND (0.01) U	ND (0.001) U
1,1-Dichloroethene	ND (0.01) U	ND (0.001) U
1,2-Dichloroethane	ND (0.01) U	ND (0.001) U
Benzene	ND (0.01) U	0.0002 J
Chloroform (Trichloromethane)	ND (0.01) U	ND (0.001) U
cis-1,2-Dichloroethene	0.028	ND (0.001) U
Ethylbenzene	ND (0.01) U	ND (0.001) U
Methylene chloride	ND (0.05) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.01) U	ND (0.001) U
Trichloroethene	0.32 {A}	0.001 J
Vinyl chloride	0.003 J {A}	ND (0.001) U

MW-4602	5/1/2000
VOC	
1,1,1-Trichloroethane	ND (0) U
1,1-Dichloroethane	ND (0) U
1,1-Dichloroethene	ND (0) U
1,2-Dichloroethane	ND (0) U
cis-1,2-Dichloroethene	ND (0) U
Trichloroethene	ND (0) U
Vinyl chloride	ND (0) U

GP-4111	5/1/2002 9-11(ft)	5/1/2002 26-28(ft)
VOC		
1,1,1-Trichloroethane	0.002	ND (0.001) U
1,1-Dichloroethane	0.001	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	0.001	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	0.001	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4112	5/1/2002 9-11(ft)	5/1/2002 25.5-27.5(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

MW-4601D	6/1/2002
INORG	
Aluminum	1.3 {ZW}
Antimony	ND (0.01) U
Arsenic	0.005 J
Barium	0.27
Cadmium	ND (0.002) U
Chromium	0.002 J
Cobalt	0.002 J
Iron	1.6
Lead	ND (0.003) U
Magnesium	32.3
Manganese	0.12
Mercury	ND (0.0002) U
Nickel	0.003 J
Selenium	ND (0.005) U
Silver	ND (0.001) U
Vanadium	0.003 J
Zinc	ND (0.02) U
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	ND (0.001) U
SVOC	
Benzo(a)pyrene	ND (0.0002) U/ND (0.002) U

MW-4601	5/1/2000	6/1/2002
INORG		
Aluminum		0.23
Antimony		ND (0.01) U
Arsenic		ND (0.01) U
Barium		0.21
Cadmium		0.0003 J
Chromium		ND (0.005) U
Cobalt		0.001 J
Iron		1.3
Lead		ND (0.003) U
Magnesium		41.2
Manganese		1.2 {ZW}
Mercury		ND (0.0002) U
Nickel		0.005 J
Selenium		ND (0.005) U
Silver		ND (0.001) U
Vanadium		ND (0.005) U
Zinc		0.22
VOC		
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U
1,2-Dichloroethane	ND (0) U	ND (0.001) U
Benzene		ND (0.001) U
Chloroform (Trichloromethane)		ND (0.001) U
cis-1,2-Dichloroethene	ND (0) U	ND (0.001) U
Ethylbenzene		ND (0.001) U
Methylene chloride		ND (0.005) U
trans-1,2-Dichloroethene		ND (0.001) U
Trichloroethene	ND (0) U	ND (0.001) U
Vinyl chloride	ND (0) U	ND (0.001) U
SVOC		
Benzo(a)pyrene		ND (0.002) U/ND (0.0002) U

MW-4502	3/1/1995	3/1/2000
VOC		
1,1,1-Trichloroethane		3.1 {A}
1,1-Dichloroethane		0.41
1,1-Dichloroethene		0.29 {A}
1,2-Dichloroethane		ND (0) U
Benzene	ND (0.001) U/ND (0.001) U	
cis-1,2-Dichloroethene		ND (0) U
Ethylbenzene	ND (0.001) U/ND (0.001) U	
Trichloroethene		ND (0) U
Vinyl chloride		ND (0) U

MW-4614	5/1/2000	6/1/2002
INORG		
Aluminum		ND (0.2) U
Antimony		ND (0.01) U
Arsenic		ND (0.01) U
Barium		0.032 J
Cadmium		0.0003 J
Chromium		ND (0.005) U
Cobalt		ND (0.007) U
Iron		0.062 J
Lead		ND (0.003) U
Magnesium		18.8
Manganese		0.14
Mercury		ND (0.0002) U
Nickel		ND (0.025) U
Selenium		ND (0.005) U
Silver		ND (0.001) U
Vanadium		ND (0.005) U
Zinc		0.1
VOC		
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U
1,2-Dichloroethane	ND (0) U	ND (0.001) U
Benzene		ND (0.001) U
Chloroform (Trichloromethane)		ND (0.001) U
cis-1,2-Dichloroethene	ND (0) U	ND (0.001) U
Ethylbenzene		ND (0.001) U
Methylene chloride		ND (0.005) U
trans-1,2-Dichloroethene		ND (0.001) U
Trichloroethene	ND (0) U	ND (0.001) U
Vinyl chloride	ND (0) U	ND (0.001) U
SVOC		
Benzo(a)pyrene		ND (0.0002) U/ND (0.002) U

GP-4006	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	0.001	ND (0.001) U
cis-1,2-Dichloroethene	0.004	0.012
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	0.003	0.002
Trichloroethene	1.3 D {A}	1.1 D {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4004	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	0.01	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	0.001
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	0.26 D {A}	0.074 {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4016	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	0.001	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4007	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	0.003	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	0.1 D {A}	0.088 D {A}
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	0.094	0.14 D {A}
Trichloroethene	0.59 D {A}	1.4 D {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4017	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	0.013	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	0.004	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4018	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	0.003	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	0.004
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	0.001
Trichloroethene	0.09 {D}	0.34 D {D}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4003	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	0.002	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	0.037	0.079 {A}
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	0.018	0.011
Trichloroethene	1.8 D {A}	0.068 {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4008	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	0.003	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	0.057	0.077 D {A}
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	0.076	0.061 D
Trichloroethene	2.3 D {A}	0.16 D {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4114	11/1/2002 18-20(ft) (M)	11/1/2002 27-29(ft) (M)
VOC		
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	7.94 {A}	1.17 {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4116	11/1/2002 18-20(ft) (M)	11/1/2002 27-29(ft) (M)
VOC		
1,1-Dichloroethene	0.015 {A}	0.115 {A}
Benzene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Trichloroethene	11.9 {A}	1.43 {A}
Vinyl chloride	0.001	0.013 {A}

GP-4115	11/1/2002 17-19(ft) (M)	11/1/2002 27-29(ft) (M)
VOC		
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	0.008 {A}	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4118	11/1/2002 17.5-19(ft) (M)	11/1/2002 28-30(ft) (M)
VOC		
1,1-Dichloroethene	0.045 {A}	0.004
Trichloroethene	9.87 {A}	0.057 {A}
Vinyl chloride	ND (0.001) U	0.003 {A}

GP-4110	5/1/2002 9-11(ft)	5/1/2002 28.5-30.5(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	0.003	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	0.025	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	0.0002 J	ND (0.001) U
Trichloroethene	0.012 {A}	ND (0.001) U
Vinyl chloride	0.011 {A}	ND (0.001) U

MW-4503	12/1/1992	3/1/1995	4/1/1995
VOC			
Benzene	ND (0.001) U	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U	ND (0.001) U

MW-4501	12/1/1992	3/1/1995
VOC		
Benzene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U

MW-4604D	6/1/2002
INORG	
Aluminum	10.1 {A}
Antimony	ND (0.01) U
Arsenic	0.011
Barium	0.22
Cadmium	ND (0.002) U
Chromium	0.023
Cobalt	0.006 J
Iron	14.1 {A}
Lead	0.004 {A}
Magnesium	39.8
Manganese	0.45
Mercury	ND (0.0002) U
Nickel	0.019 J
Selenium	ND (0.005) U
Silver	ND (0.001) U
Vanadium	0.015 {ZW}
Zinc	ND (0.02) U
VOC	
1,1,1-Trichloroethane	ND (0.02) U
1,1-Dichloroethane	ND (0.02) U
1,1-Dichloroethene	ND (0.02) U
1,2-Dichloroethane	ND (0.02) U
Benzene	ND (0.02) U
Chloroform (Trichloromethane)	ND (0.02) U
cis-1,2-Dichloroethene	0.037
Ethylbenzene	ND (0.02) U
Methylene chloride	ND (0.1) U
trans-1,2-Dichloroethene	0.041
Trichloroethene	0.42 {A}
Vinyl chloride	ND (0.02) U
SVOC	
Benzo(a)pyrene	ND (0.002) U/ND (0.0002) U

MW-4604	5/1/2000	3/1/2001	6/1/2002
INORG			
Aluminum			0.076 J
Antimony			ND (0.01) U
Arsenic			ND (0.01) U
Barium			0.04 J
Cadmium			ND (0.002) U
Chromium			0.004 J
Cobalt			0.001 J
Iron			0.35
Lead			ND (0.003) U
Magnesium			21.5
Manganese			0.01 J
Mercury			ND (0.0002) U
Nickel			ND (0.025) U
Selenium			ND (0.005) U
Silver			ND (0.001) U
Vanadium			0.001 J
Zinc			ND (0.02) U
VOC			
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U	ND (0.005) U
1,1-Dichloroethane	ND (0) U	ND (0.001) U	ND (0.005) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U	ND (0.005) U
1,2-Dichloroethane	ND (0) U	ND (0.001) U	ND (0.005) U
Benzene		ND (0.001) U	ND (0.005) U
Chloroform (Trichloromethane)		ND (0.001) U	ND (0.005) U
cis-1,2-Dichloroethene	ND (0) U	0.018	ND (0.005) U
Ethylbenzene		ND (0.001) U	ND (0.005) U
Methylene chloride		ND (0.005) U	ND (0.025) U
n-Propylbenzene		ND (0.001) U	
trans-1,2-Dichloroethene		0.004	ND (0.005) U
Trichloroethene	2.2 {A}	0.75 D {A}	0.11 {A}
Vinyl chloride	ND (0) U	ND (0.001) U	ND (0.005) U
SVOC			
Benzo(a)pyrene			ND (0.0002) U/ND (0.002) U

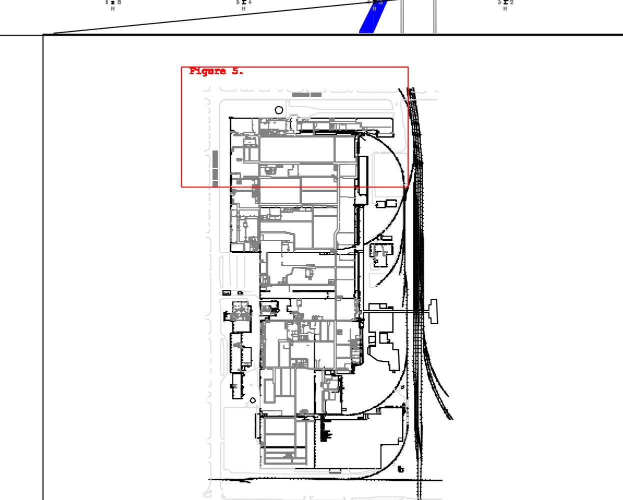
MW-4620S	7/1/2002
INORG	
Aluminum	4.9 {A}
Antimony	ND (0.01) U
Arsenic	0.005 J
Barium	0.073 J
Cadmium	ND (0.002) U
Chromium	0.008
Cobalt	0.005 J
Iron	10 {A}
Lead	0.007 {A}
Magnesium	58.3
Manganese	0.41
Mercury	ND (0.0002) U
Nickel	0.014 J
Selenium	ND (0.005) U
Silver	ND (0.001) U
Vanadium	0.011 {ZW}
Zinc	0.3
VOC	
1,1,1-Trichloroethane	0.001
1,1-Dichloroethane	0.007
1,1-Dichloroethene	0.001 J
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	0.005
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	0.001 J
Trichloroethene	0.008 {A}
Vinyl chloride	ND (0.001) U
SVOC	
Benzo(a)pyrene	ND (0.0002) U/ND (0.002) U

MW-4620D	7/1/2002
INORG	
Aluminum	6 {A}
Antimony	ND (0.01) U
Arsenic	0.012
Barium	0.15
Cadmium	ND (0.002) U
Chromium	0.011
Cobalt	0.01
Iron	13.9 {A}
Lead	0.01 {A}
Magnesium	63.8
Manganese	2 {ZW}
Mercury	ND (0.0002) U
Nickel	0.02 J
Selenium	ND (0.005) U
Silver	ND (0.001) U
Vanadium	0.014 {ZW}
Zinc	0.52
VOC	
1,1,1-Trichloroethane	ND (0.005) U
1,1-Dichloroethane	0.11
1,1-Dichloroethene	0.006
1,2-Dichloroethane	ND (0.005) U
Benzene	ND (0.005) U
Chloroform (Trichloromethane)	ND (0.005) U
cis-1,2-Dichloroethene	0.024
Ethylbenzene	ND (0.005) U
Methylene chloride	ND (0.025) U
trans-1,2-Dichloroethene	0.014
Trichloroethene	0.038 {A}
Vinyl chloride	ND (0.005) U
SVOC	
Benzo(a)pyrene	ND (0.0002) U/ND (0.002) U

NOTES:
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   A – Exceeds Industrial Drinking Water Screening Criteria
   AB – Exceeds Industrial Drinking Water and Groundwater Contact Screening Criteria
   AC – Exceeds Industrial Drinking Water and Industrial Volatilization to Indoor Air Screening Criteria
   AG – Exceeds Industrial Drinking Water and GSI (Ecological) Screening Criteria
   G or GR – Exceeds GSI (Ecological) Screening Criteria
   D – Exceeds Residential Drinking Water Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. Potentiometric Surface Contours are inferred between measured points. See Figure 3 for site wide Potentiometric Surface Contours.
7. The toxicity values that MDEQ used to calculate its screening criteria for 1,1–Dichloroethene (1,1–DCE) are different from the toxicity values for 1,1–DCE published in IRIS. There are no detected concentrations of 1,1–DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND:
- MW-4107 – Monitoring Well (Second Saturated Zone)
- MW-4107 – Monitoring Well (First Saturated Zone)
- GP-4001 – Direct Push Delineation Boring Location
- 750.5 – Estimated Potentiometric Surface Contours for First Saturated Zone

0 25 50 100 150
SCALE IN FEET



HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

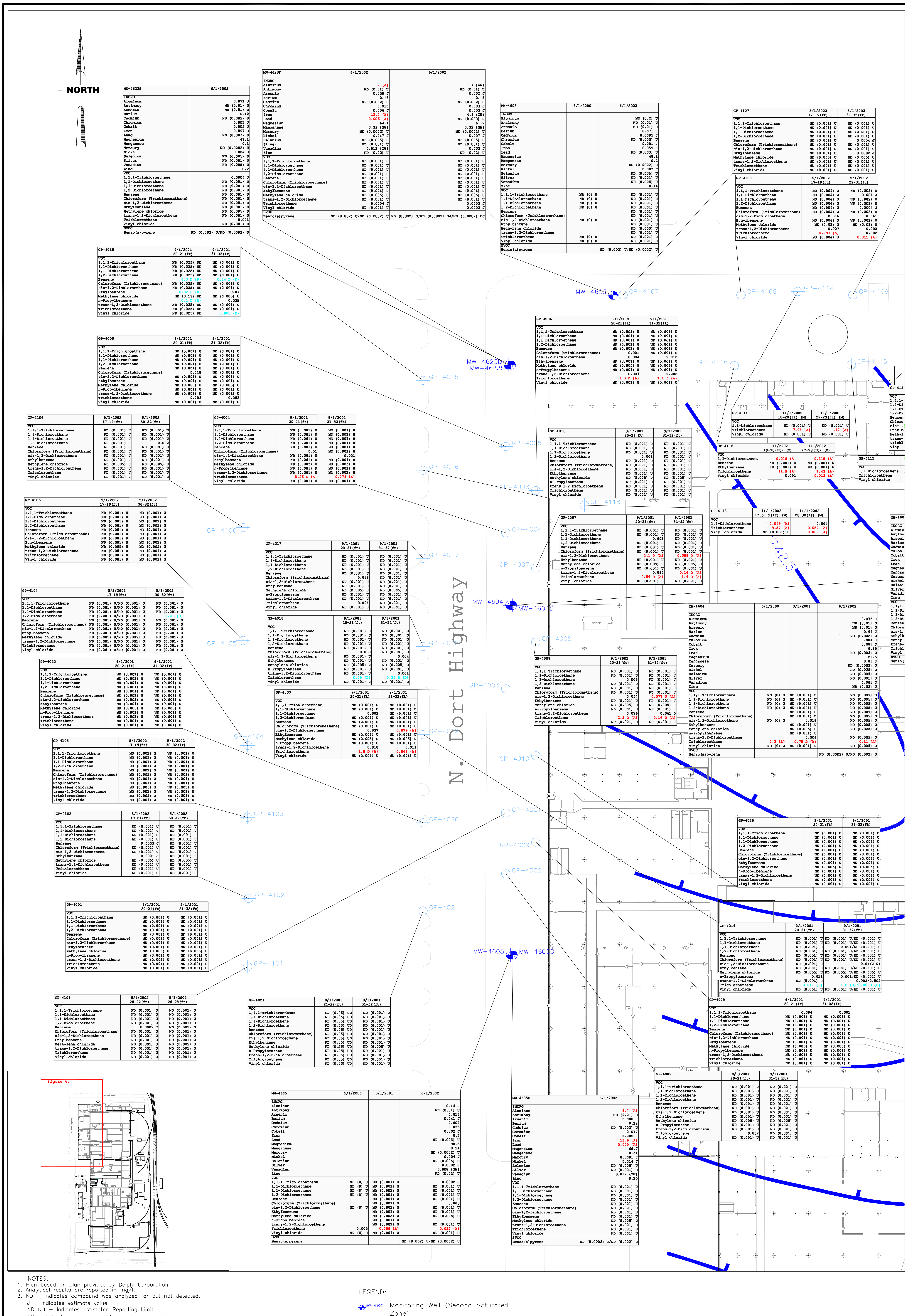
DELPHI CORPORATION
FLINT–EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

GROUNDWATER ANALYTICAL RESULTS
DAVISON ROAD
NORTHWEST PROPERTY

SCALE: AS SHOWN
March 28, 2003

FIGURE 5B

G:\49017\017\posting\FE1_GW_Posting_RCP.dwg (Dort_Chembox_20030205.zip)



MW-4623S	6/1/2002
INORG	
Aluminum	0.071 J
Antimony	ND (0.01) U
Arsenic	ND (0.01) U
Barium	0.12
Cadmium	ND (0.002) U
Chromium	0.003 J
Cobalt	0.002 J
Iron	0.097 J
Lead	ND (0.003) U
Magnesium	47.1
Manganese	0.1
Mercury	ND (0.0002) U
Nickel	0.004 J
Selenium	ND (0.005) U
Silver	ND (0.001) U
Vanadium	ND (0.005) U
Zinc	0.2
VOC	
1,1,1-Trichloroethane	0.0004 J
1,1-Dichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	0.001
Vinyl chloride	ND (0.001) U
SVOC	
Benzo(a)pyrene	ND (0.002) U/ND (0.0002) U

MW-4623D	6/1/2002	6/1/2002
INORG		
Aluminum	7 {A}	1.7 {ZW}
Antimony	ND (0.01) U	ND (0.01) U
Arsenic	0.008 J	0.002 J
Barium	0.16	0.13
Cadmium	ND (0.002) U	ND (0.002) U
Chromium	0.016	0.003 J
Cobalt	0.006 J	0.003 J
Iron	12.4 {A}	4.4 {ZW}
Lead	0.006 {A}	ND (0.003) U
Magnesium	64.1	61.2
Manganese	0.99 {ZW}	0.92 {ZW}
Mercury	ND (0.0002) U	ND (0.0002) U
Nickel	0.017 J	0.007 J
Selenium	ND (0.005) U	ND (0.005) U
Silver	ND (0.001) U	ND (0.001) U
Vanadium	0.012 {ZW}	0.003 J
Zinc	ND (0.02) U	ND (0.02) U
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	0.0004 J	0.0003 J
Vinyl chloride	ND (0.001) U	0.0002 J
SVOC		
Benzo(a)pyrene	ND (0.002) U/ND (0.0002) U	ND (0.002) U/ND (0.0002) UJ/ND (0.0002) UJ

MW-4603	5/1/2000	6/1/2002
INORG		
Aluminum		ND (0.2) U
Antimony		ND (0.01) U
Arsenic		ND (0.01) U
Barium		0.071 J
Cadmium		0.0005 J
Chromium		ND (0.005) U
Cobalt		0.001 J
Iron		0.059 J
Lead		ND (0.003) U
Magnesium		48.1
Manganese		0.2
Mercury		ND (0.0002) U
Nickel		0.007 J
Selenium		ND (0.005) U
Silver		ND (0.001) U
Vanadium		ND (0.005) U
Zinc		0.14
VOC		
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethane	ND (0) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U
1,2-Dichloroethane	ND (0) U	ND (0.001) U
Benzene		ND (0.001) U
Chloroform (Trichloromethane)		ND (0.001) U
cis-1,2-Dichloroethene	ND (0) U	ND (0.001) U
Ethylbenzene		ND (0.001) U
Methylene chloride		ND (0.005) U
trans-1,2-Dichloroethene		ND (0.001) U
Trichloroethene	ND (0) U	ND (0.001) U
Vinyl chloride	ND (0) U	ND (0.001) U
SVOC		
Benzo(a)pyrene		ND (0.002) U/ND (0.0002) U

GP-4107	5/1/2002 17-19(ft)	5/1/2002 30-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	0.0004 J
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	0.0002 J
Methylene chloride	ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4108	5/1/2002 17-19(ft)	5/1/2002 29-31(ft)
VOC		
1,1,1-Trichloroethane	ND (0.004) U	ND (0.002) U
1,1-Dichloroethane	ND (0.004) U	0.001 J
1,1-Dichloroethene	ND (0.004) U	ND (0.002) U
1,2-Dichloroethane	ND (0.004) U	ND (0.002) U
Benzene	ND (0.004) U	0.0004 J
Chloroform (Trichloromethane)	ND (0.004) U	ND (0.002) U
cis-1,2-Dichloroethene	0.016	0.041
Ethylbenzene	ND (0.004) U	ND (0.002) U
Methylene chloride	ND (0.02) U	ND (0.01) U
trans-1,2-Dichloroethene	0.007	0.002
Trichloroethene	0.093 {A}	0.002
Vinyl chloride	ND (0.004) U	0.011 {A}

GP-4015	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.025) UD	ND (0.001) U
1,1-Dichloroethane	ND (0.025) UD	ND (0.001) U
1,1-Dichloroethene	ND (0.025) UD	ND (0.001) U
1,2-Dichloroethane	ND (0.025) UD	ND (0.001) U
Benzene	4.3 D {D}	0.14 D {D}
Chloroform (Trichloromethane)	ND (0.025) UD	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.025) UD	ND (0.001) U
Ethylbenzene	0.82 D {D}	0.07
Methylene chloride	ND (0.13) UD	ND (0.005) U
n-Propylbenzene	0.1 D {D}	0.025
trans-1,2-Dichloroethene	ND (0.025) UD	ND (0.001) U
Trichloroethene	ND (0.025) UD	ND (0.001) U
Vinyl chloride	ND (0.025) UD	0.003 {D}

GP-4005	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	0.018	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	0.003	0.002
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4006	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	0.001	ND (0.001) U
cis-1,2-Dichloroethene	0.004	0.012
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	0.003	0.002
Trichloroethene	1.3 D {A}	1.1 D {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4106	5/1/2002 17-19(ft)	5/1/2002 30-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	0.002
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4004	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	0.01	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	0.001
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	0.26 D {A}	0.074 {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4114	11/1/2002 18-20(ft) (M)	11/1/2002 27-29(ft) (M)
VOC		
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	7.94 {A}	1.17 {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4016	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	0.001	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4116	11/1/2002 18-20(ft) (M)	11/1/2002 27-29(ft) (M)
VOC		
1,1-Dichloroethene	0.015 {A}	0.115 {A}
Benzene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Trichloroethene	11.9 {A}	1.43 {A}
Vinyl chloride	0.001	0.013 {A}

GP-4115	
VOC	
1,1-Dichloroethene	
Trichloroethene	
Vinyl chloride	

GP-4105	5/1/2002 17-19(ft)	5/1/2002 30-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4118	11/1/2002 17.5-19(ft) (M)	11/1/2002 28-30(ft) (M)
VOC		
1,1-Dichloroethene	0.045 {A}	0.004
Trichloroethene	9.87 {A}	0.057 {A}
Vinyl chloride	ND (0.001) U	0.003 {A}

GP-4007	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	0.003	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	0.1 D {A}	0.088 D {A}
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	0.094	0.14 D {A}
Trichloroethene	0.59 D {A}	1.4 D {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4017	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	0.013	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	0.004	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4104	5/1/2002 17-19(ft)	5/1/2002 30-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U/ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U/ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U/ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U/ND (0.001) U	0.01 {D}
Benzene	ND (0.001) U/ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U/ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U/ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U/ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U/ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U/ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U/ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U/ND (0.001) U	ND (0.001) U

GP-4018	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	0.003	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	0.004
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	0.001
Trichloroethene	0.09 {D}	0.34 D {D}
Vinyl chloride	ND (0.001) U	ND (0.001) U

MW-4604	5/1/2000	3/1/2001	6/1/2002
INORG			
Aluminum			0.076 J
Antimony			ND (0.01) U
Arsenic			ND (0.01) U
Barium			0.04 J
Cadmium			ND (0.002) U
Chromium			0.004 J
Cobalt			0.001 J
Iron			0.35
Lead			ND (0.003) U
Magnesium			21.5
Manganese			0.01 J
Mercury			ND (0.0002) U
Nickel			ND (0.025) U
Selenium			ND (0.005) U
Silver			ND (0.001) U
Vanadium			0.001 J
Zinc			ND (0.02) U
VOC			
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U	ND (0.005) U
1,1-Dichloroethane	ND (0) U	ND (0.001) U	ND (0.005) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U	ND (0.005) U
1,2-Dichloroethane	ND (0) U	ND (0.001) U	ND (0.005) U
Benzene		ND (0.001) U	ND (0.005) U
Chloroform (Trichloromethane)		ND (0.001) U	ND (0.005) U
cis-1,2-Dichloroethene	ND (0) U	0.018	ND (0.005) U
Ethylbenzene		ND (0.001) U	ND (0.005) U
Methylene chloride		ND (0.005) U	ND (0.025) U
n-Propylbenzene		ND (0.001) U	
trans-1,2-Dichloroethene		0.004	ND (0.005) U
Trichloroethene	2.2 {A}	0.75 D {A}	0.11 {A}
Vinyl chloride	ND (0) U	ND (0.001) U	ND (0.005) U
SVOC			
Benzo(a)pyrene			ND (0.0002) U/ND (0.002) U

GP-4020	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4008	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	0.003	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	0.057	0.077 D {A}
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	0.076	0.061 D
Trichloroethene	2.3 D {A}	0.16 D {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4003	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	0.002	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	0.037	0.079 {A}
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	0.018	0.011
Trichloroethene	1.8 D {A}	0.068 {A}
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4103	5/1/2002 17-19(ft)	5/1/2002 30-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4102	5/1/2002 19-21(ft)	5/1/2002 30-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	0.0003 J	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	0.0001 J	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4010	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4001	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4019	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U/ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U/ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	0.001/ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U/ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U/ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U/ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	0.01/0.01
Ethylbenzene	ND (0.001) U	ND (0.001) U/ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U/ND (0.005) U
n-Propylbenzene	0.011	0.001/ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	0.002/0.002
Trichloroethene	0.017 {D}	1 D {D}/0.86 D {D}
Vinyl chloride	ND (0.001) U	ND (0.001) U/ND (0.001) U

GP-4101	5/1/2002 20-22(ft)	5/1/2002 26-28(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	0.0002 J	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4021	9/1/2001 21-22(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.05) UD	ND (0.001) U
1,1-Dichloroethane	ND (0.05) UD	ND (0.001) U
1,1-Dichloroethene	ND (0.05) UD	ND (0.001) U
1,2-Dichloroethane	ND (0.05) UD	ND (0.001) U
Benzene	ND (0.05) UD	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.05) UD	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.05) UD	ND (0.001) U
Ethylbenzene	ND (0.05) UD	ND (0.001) U
Methylene chloride	ND (0.25) UD	ND (0.005) U
n-Propylbenzene	ND (0.05) UD	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.05) UD	ND (0.001) U
Trichloroethene	ND (0.05) UD	ND (0.001) U
Vinyl chloride	ND (0.05) UD	ND (0.001) U

GP-4009	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	0.004	0.001
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0.001) U	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

GP-4002	9/1/2001 20-21(ft)	9/1/2001 31-32(ft)
VOC		
1,1,1-Trichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U	ND (0.001) U
Benzene	ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Methylene chloride	ND (0.005) U	ND (0.005) U
n-Propylbenzene	ND (0.001) U	ND (0.001) U
trans-1,2-Dichloroethene	ND (0.001) U	ND (0.001) U
Trichloroethene	0.002	ND (0.001) U
Vinyl chloride	ND (0.001) U	ND (0.001) U

MW-4605	5/1/2000	3/1/2001	6/1/2002
INORG			
Aluminum			0.14 J
Antimony			ND (0.01) U
Arsenic			0.013
Barium			0.041 J
Cadmium			0.002
Chromium			0.025
Cobalt			0.002 J
Iron			0.7
Lead			ND (0.003) U
Magnesium			98.6
Manganese			0.14
Mercury			ND (0.0002) U
Nickel			0.004 J
Selenium			ND (0.005) U
Silver			0.0002 J
Vanadium			0.008 {ZW}
Zinc			ND (0.02) U
VOC			
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U	0.0002 J
1,1-Dichloroethane	ND (0) U	ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	ND (0) U	ND (0.001) U	ND (0.001) U
Benzene		ND (0.001) U	ND (0.001) U
Chloroform (Trichloromethane)		ND (0.001) U	0.003
cis-1,2-Dichloroethene	ND (0) U	ND (0.001) U	ND (0.001) U
Ethylbenzene		ND (0.001) U	ND (0.001) U
Methylene chloride		ND (0.005) U	ND (0.005) U
n-Propylbenzene		ND (0.001) U	
trans-1,2-Dichloroethene		ND (0.001) U	ND (0.001) U
Trichloroethene	0.005	0.008 {A}	0.015 {A}
Vinyl chloride	ND (0) U	ND (0.001) U	ND (0.001) U
SVOC			
Benzo(a)pyrene			ND (0.002) U/ND (0.0002) U

MW-4605D	6/1/2002
INORG	
Aluminum	8.7 {A}
Antimony	ND (0.01) U
Arsenic	0.008 J
Barium	0.18
Cadmium	ND (0.002) U
Chromium	0.017
Cobalt	0.005 J
Iron	13.9 {A}
Lead	0.005 {A}
Magnesium	68.7
Manganese	0.51
Mercury	0.0001 J
Nickel	0.014 J
Selenium	ND (0.005) U
Silver	ND (0.001) U
Vanadium	0.017 {ZW}
Zinc	0.25
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
1,2-Dichloroethane	ND (0.001) U
Benzene	ND (0.001) U
Chloroform (Trichloromethane)	ND (0.001) U
cis-1,2-Dichloroethene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Methylene chloride	ND (0.005) U
trans-1,2-Dichloroethene	ND (0.001) U
Trichloroethene	ND (0.001) U
Vinyl chloride	ND (0.001) U
SVOC	
Benzo(a)pyrene	ND (0.0002) U/ND (0.002) U

NOTES:
1. Plan based on plan provided by Delphi Corporation.
2. Analytical results are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Screening criteria codes are shown in { }.
   A – Exceeds Industrial Drinking Water Screening Criteria
   AB – Exceeds Industrial Drinking Water and Groundwater Contact Screening Criteria
   AC – Exceeds Industrial Drinking Water and Industrial Volatilization to Indoor Air Screening Criteria
   AG – Exceeds Industrial Drinking Water and GSI (Ecological) Screening Criteria
   G or GR – Exceeds GSI (Ecological) Screening Criteria
   D – Exceeds Residential Drinking Water Screening Criteria (off-Site Locations)
5. (M) after depth indicates mobile lab data.
6. Potentiometric Surface Contours are inferred between measured points. See Figure 3 for site wide Potentiometric Surface Contours.
7. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND:

MW-4107 Monitoring Well (Second Saturated Zone)

GP-4001 Direct Push Delineation Boring Location

750.5 Estimated Potentiometric Surface Contours for First Saturated Zone

0 25 50 100 150
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

GROUNDWATER ANALYTICAL RESULTS
NORTH DORT HIGHWAY
NORTHWEST PROPERTY

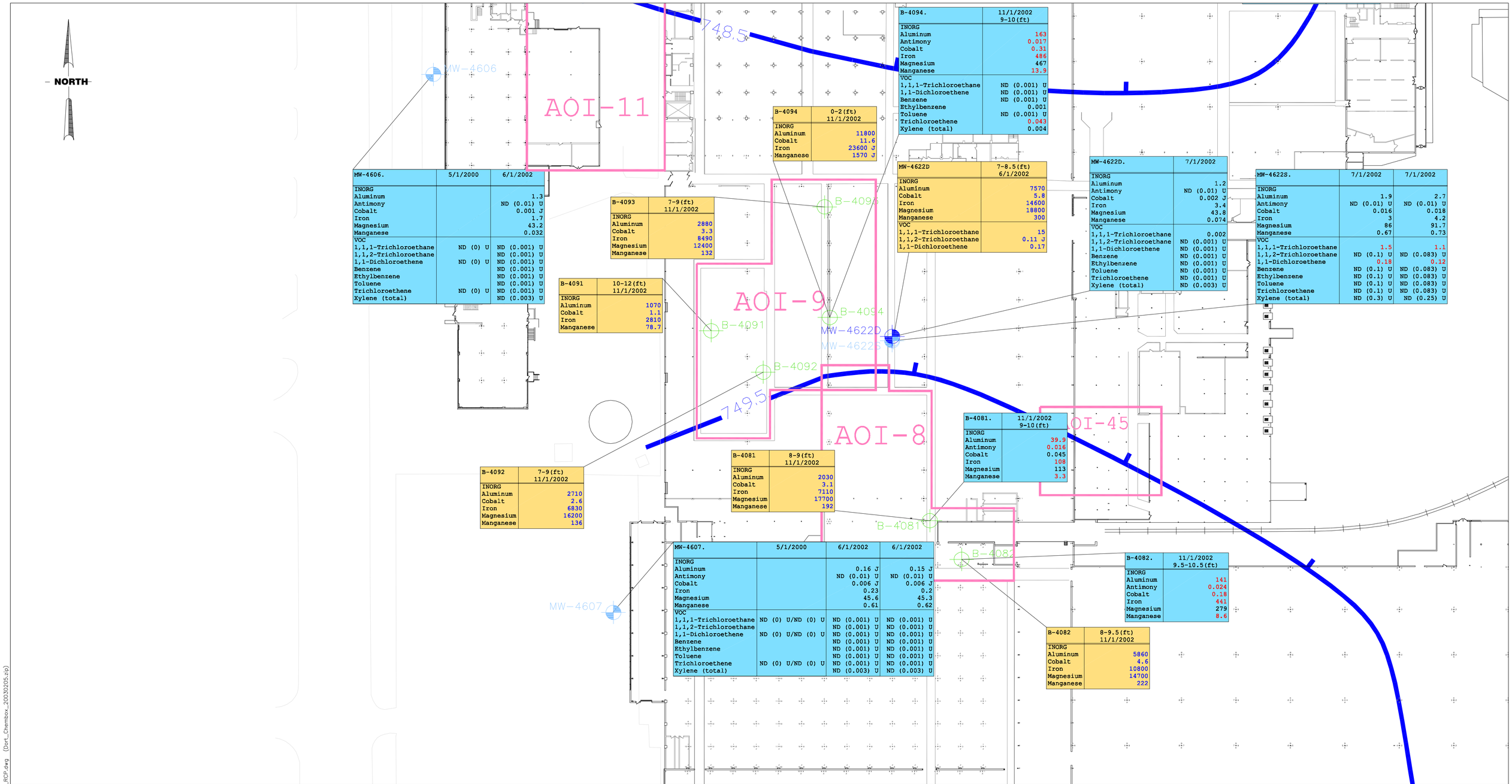
SCALE: AS SHOWN
March 28, 2003

FIGURE 6B

G:\49017\017\posting\FE1_GW_Posting_RCP.dwg (Dort_Chembox_20030205.zip)

APPENDIX C

Soil Drinking Water Protection Screening Figures



B-4094.	11/1/2002 9-10(ft)
INORG	
Aluminum	163
Antimony	0.017
Cobalt	0.31
Iron	486
Magnesium	467
Manganese	13.9
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
Benzene	ND (0.001) U
Ethylbenzene	0.001
Toluene	ND (0.001) U
Trichloroethene	0.043
Xylene (total)	0.004

B-4094	0-2(ft) 11/1/2002
INORG	
Aluminum	11800
Cobalt	11.6
Iron	23600 J
Manganese	1570 J

MW-4606.	5/1/2000	6/1/2002
INORG		
Aluminum		1.3
Antimony		ND (0.01) U
Cobalt		0.001 J
Iron		1.7
Magnesium		43.2
Manganese		0.032
VOC		
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U
1,1,2-Trichloroethane		ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U
Benzene		ND (0.001) U
Ethylbenzene		ND (0.001) U
Toluene		ND (0.001) U
Trichloroethene	ND (0) U	ND (0.001) U
Xylene (total)		ND (0.003) U

B-4093	7-9(ft) 11/1/2002
INORG	
Aluminum	2880
Cobalt	3.3
Iron	8490
Magnesium	12400
Manganese	132

B-4091	10-12(ft) 11/1/2002
INORG	
Aluminum	1070
Cobalt	1.1
Iron	2810
Manganese	78.7

MW-4622D	7-8.5(ft) 6/1/2002
INORG	
Aluminum	7570
Cobalt	5.8
Iron	14600
Magnesium	18800
Manganese	300
VOC	
1,1,1-Trichloroethane	15
1,1,2-Trichloroethane	0.11 J
1,1-Dichloroethene	0.17

MW-4622D.	7/1/2002
INORG	
Aluminum	1.2
Antimony	ND (0.01) U
Cobalt	0.002 J
Iron	3.4
Magnesium	43.8
Manganese	0.074
VOC	
1,1,1-Trichloroethane	0.002
1,1,2-Trichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Toluene	ND (0.001) U
Trichloroethene	ND (0.001) U
Xylene (total)	ND (0.003) U

MW-4622S.	7/1/2002	7/1/2002
INORG		
Aluminum	1.9	2.7
Antimony	ND (0.01) U	ND (0.01) U
Cobalt	0.016	0.018
Iron	3	4.2
Magnesium	86	91.7
Manganese	0.67	0.73
VOC		
1,1,1-Trichloroethane	1.5	1.1
1,1,2-Trichloroethane	ND (0.1) U	ND (0.083) U
1,1-Dichloroethene	0.18	0.12
Benzene	ND (0.1) U	ND (0.083) U
Ethylbenzene	ND (0.1) U	ND (0.083) U
Toluene	ND (0.1) U	ND (0.083) U
Trichloroethene	ND (0.1) U	ND (0.083) U
Xylene (total)	ND (0.3) U	ND (0.25) U

B-4081.	11/1/2002 9-10(ft)
INORG	
Aluminum	39.9
Antimony	0.016
Cobalt	0.045
Iron	108
Magnesium	113
Manganese	3.3

B-4092	7-9(ft) 11/1/2002
INORG	
Aluminum	2710
Cobalt	2.6
Iron	6830
Magnesium	16200
Manganese	136

B-4081	8-9(ft) 11/1/2002
INORG	
Aluminum	2030
Cobalt	3.1
Iron	7110
Magnesium	17700
Manganese	192

MW-4607.	5/1/2000	6/1/2002	6/1/2002
INORG			
Aluminum		0.16 J	0.15 J
Antimony		ND (0.01) U	ND (0.01) U
Cobalt		0.006 J	0.006 J
Iron		0.23	0.2
Magnesium		45.6	45.3
Manganese		0.61	0.62
VOC			
1,1,1-Trichloroethane	ND (0) U/ND (0) U	ND (0.001) U	ND (0.001) U
1,1,2-Trichloroethane		ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U/ND (0) U	ND (0.001) U	ND (0.001) U
Benzene		ND (0.001) U	ND (0.001) U
Ethylbenzene		ND (0.001) U	ND (0.001) U
Toluene		ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0) U/ND (0) U	ND (0.001) U	ND (0.001) U
Xylene (total)		ND (0.003) U	ND (0.003) U

B-4082.	11/1/2002 9.5-10.5(ft)
INORG	
Aluminum	141
Antimony	0.024
Cobalt	0.18
Iron	441
Magnesium	279
Manganese	8.6

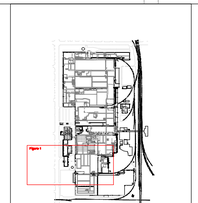
B-4082	8-9.5(ft) 11/1/2002
INORG	
Aluminum	5860
Cobalt	4.6
Iron	10800
Magnesium	14700
Manganese	222

NOTES:

1. Plan based on plan provided by Delphi Corporation.
2. Soil analytical results (orange box) are reported in mg/kg.
   Groundwater analytical results (blue box) are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Groundwater results in red exceeds Drinking Water Screening Criteria.
   Soil results presented exceed drinking water protection (DWP) screening criteria.
   Only the deepest soil sample from each location is presented in this figure.
5. Potentiometric surface contours are inferred between measured points.
   See Figure 3 for site wide potentiometric surface contours.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

- MW-4107 Monitoring Well (Second Saturated Zone)
- MW-4107 Monitoring Well (First Saturated Zone)
- B-4271 Field Event #1 Boring Location
- 748.5 Estimated Potentiometric Surface Contours for First Saturated Zone



0 20 40 80 120
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

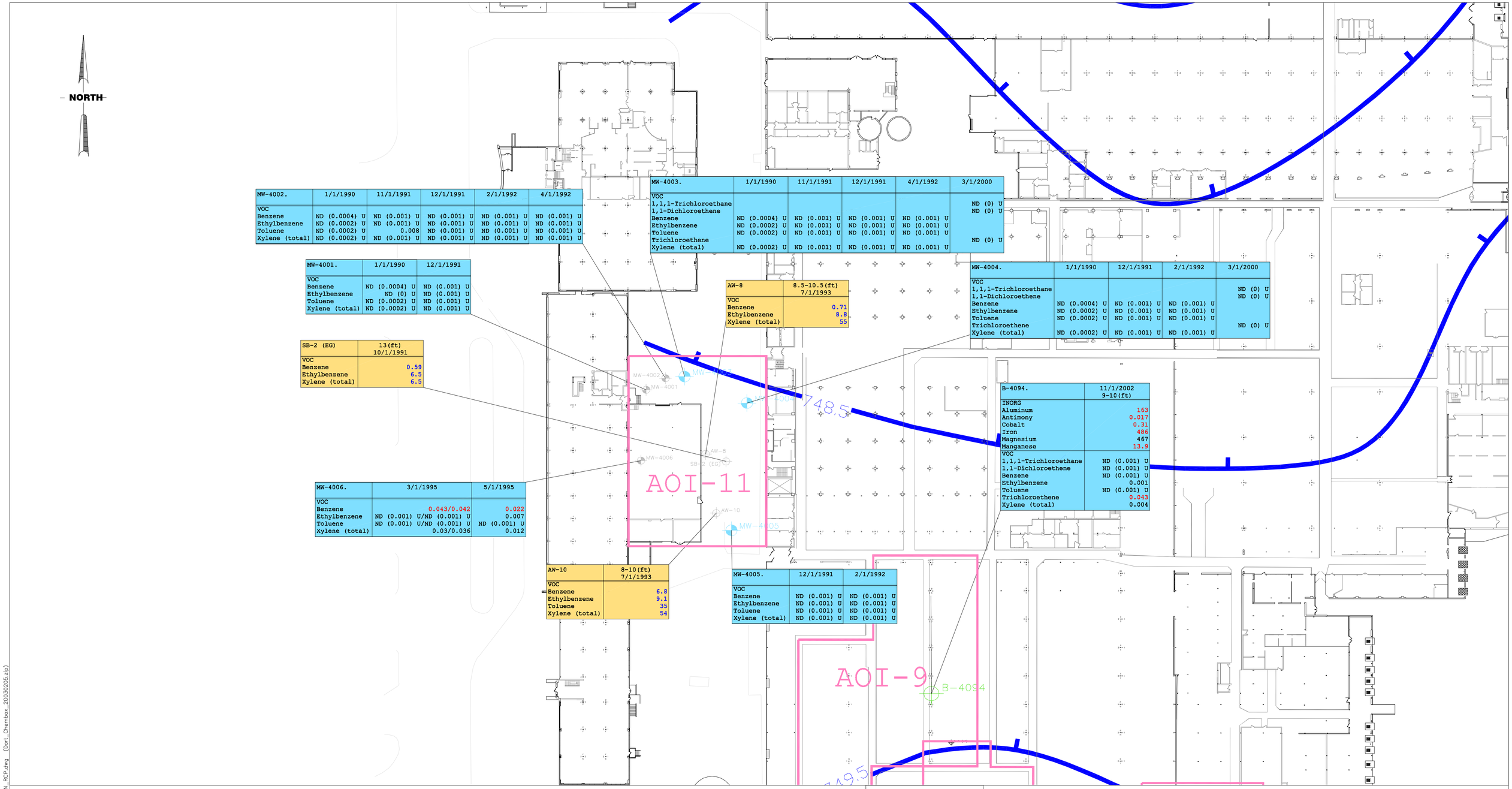
DELPHI CORPORATION
FLINT-EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

SOIL DWP SCREENING FOR AOI-8 FORMER HARD CHROME PLATING LINE AND AOI-9 BARREL, RACK, AND U1 PLATING LINE

SCALE: AS SHOWN
March 28, 2003

FIGURE 1C

G:\49017\017\postings\Soil Migration\MIGRATION_RCP.dwg (Dort_Chembox_20030205.zip)



MW-4002.	1/1/1990	11/1/1991	12/1/1991	2/1/1992	4/1/1992
VOC					
Benzene	ND (0.0004) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.0002) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Toluene	ND (0.0002) U	0.008	ND (0.001) U	ND (0.001) U	ND (0.001) U
Xylene (total)	ND (0.0002) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U

MW-4003.	1/1/1990	11/1/1991	12/1/1991	4/1/1992	3/1/2000
VOC					
1,1,1-Trichloroethane					ND (0) U
1,1-Dichloroethene					ND (0) U
Benzene	ND (0.0004) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	
Ethylbenzene	ND (0.0002) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	
Toluene	ND (0.0002) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	
Trichloroethene					ND (0) U
Xylene (total)	ND (0.0002) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	

MW-4001.	1/1/1990	12/1/1991
VOC		
Benzene	ND (0.0004) U	ND (0.001) U
Ethylbenzene	ND (0) U	ND (0.001) U
Toluene	ND (0.0002) U	ND (0.001) U
Xylene (total)	ND (0.0002) U	ND (0.001) U

AW-8	8.5-10.5(ft) 7/1/1993
VOC	
Benzene	0.71
Ethylbenzene	8.8
Xylene (total)	55

MW-4004.	1/1/1990	12/1/1991	2/1/1992	3/1/2000
VOC				
1,1,1-Trichloroethane				ND (0) U
1,1-Dichloroethene				ND (0) U
Benzene	ND (0.0004) U	ND (0.001) U	ND (0.001) U	
Ethylbenzene	ND (0.0002) U	ND (0.001) U	ND (0.001) U	
Toluene	ND (0.0002) U	ND (0.001) U	ND (0.001) U	
Trichloroethene				ND (0) U
Xylene (total)	ND (0.0002) U	ND (0.001) U	ND (0.001) U	

SB-2 (EG)	13(ft) 10/1/1991
VOC	
Benzene	0.59
Ethylbenzene	6.5
Xylene (total)	6.5

B-4094.	11/1/2002 9-10(ft)
INORG	
Aluminum	163
Antimony	0.017
Cobalt	0.31
Iron	486
Magnesium	467
Manganese	13.9
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
Benzene	ND (0.001) U
Ethylbenzene	0.001
Toluene	ND (0.001) U
Trichloroethene	0.043
Xylene (total)	0.004

MW-4006.	3/1/1995	5/1/1995
VOC		
Benzene	0.043/0.042	0.022
Ethylbenzene	ND (0.001) U/ND (0.001) U	0.007
Toluene	ND (0.001) U/ND (0.001) U	ND (0.001) U
Xylene (total)	0.03/0.036	0.012

AW-10	8-10(ft) 7/1/1993
VOC	
Benzene	6.8
Ethylbenzene	9.1
Toluene	35
Xylene (total)	54

MW-4005.	12/1/1991	2/1/1992
VOC		
Benzene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Toluene	ND (0.001) U	ND (0.001) U
Xylene (total)	ND (0.001) U	ND (0.001) U

NOTES:

1. Plan based on plan provided by Delphi Corporation.
2. Soil analytical results (orange box) are reported in mg/kg.
   Groundwater analytical results (blue box) are reported in mg/L.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Groundwater results in red exceeds Drinking Water Screening Criteria.
   Soil results presented exceed drinking water protection (DWP) screening criteria.
   Only the deepest soil sample from each location is presented in this figure.
5. Potentiometric surface contours are inferred between measured points.
   See Figure 3 for site wide potentiometric surface contours.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

MW-4611 Abandoned Monitoring Well

MW-4107 Monitoring Well (First Saturated Zone)

748 Estimated Potentiometric Surface Contours for First Saturated Zone

0 20 40 80 120

SCALE IN FEET

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 4OD
DORT HIGHWAY
FLINT, MICHIGAN

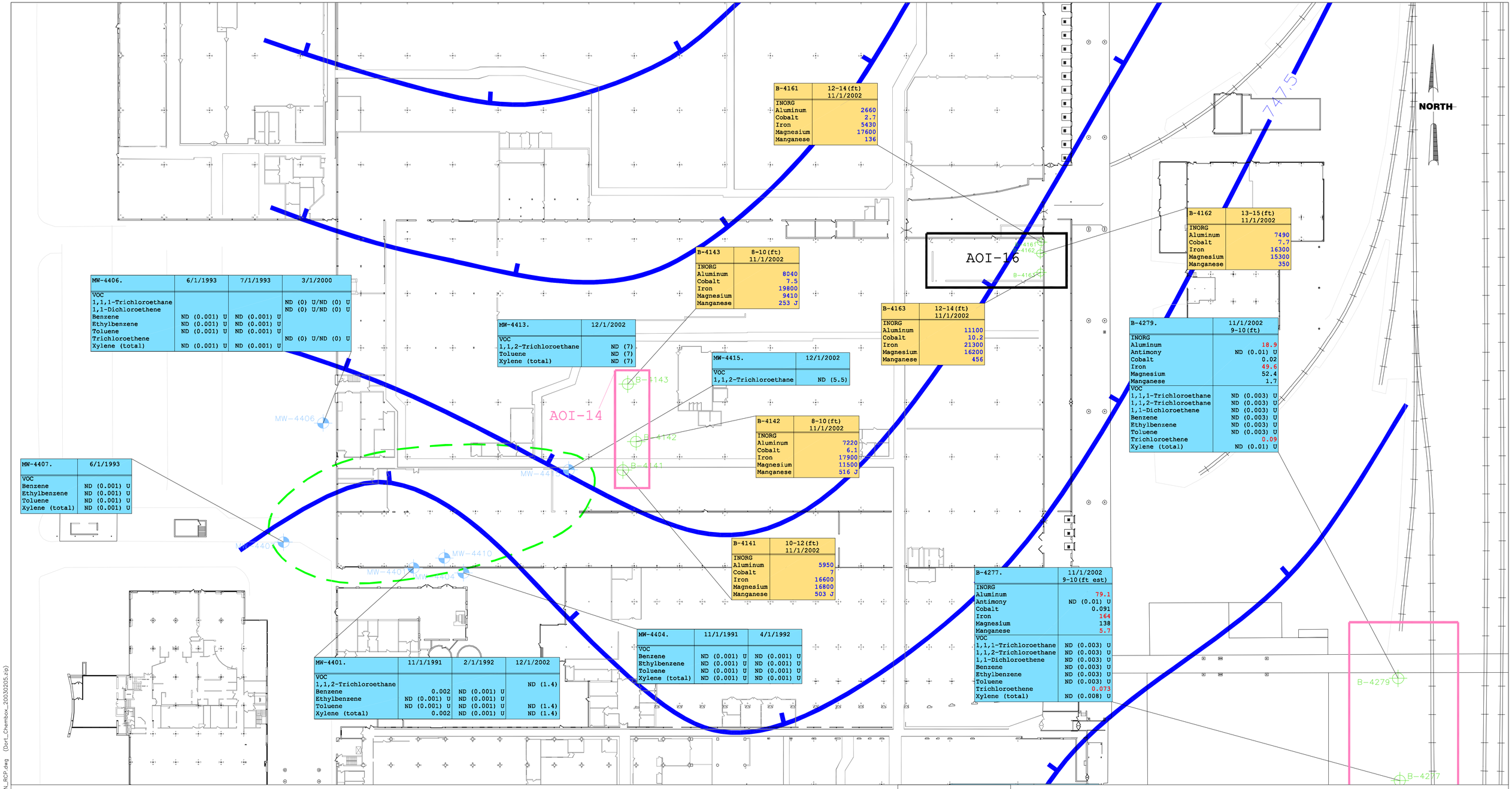
SOIL DWP SCREENING FOR AOI-11 EXECUTIVE GARAGE

SCALE: AS SHOWN

March 28, 2003

FIGURE 2C

G:\49017\017\postings\Soil Migration\MIGRATION_RCP.dwg (Dort_Chembox_20030205.zip)



B-4161	12-14(ft) 11/1/2002
INORG	
Aluminum	2660
Cobalt	2.7
Iron	5430
Magnesium	17600
Manganese	136

B-4162	13-15(ft) 11/1/2002
INORG	
Aluminum	7490
Cobalt	7.7
Iron	16300
Magnesium	15300
Manganese	350

B-4143	8-10(ft) 11/1/2002
INORG	
Aluminum	8040
Cobalt	7.5
Iron	19800
Magnesium	9410
Manganese	253 J

B-4163	12-14(ft) 11/1/2002
INORG	
Aluminum	11100
Cobalt	10.2
Iron	21300
Magnesium	16200
Manganese	456

MW-4406.	6/1/1993	7/1/1993	3/1/2000
VOC			
1,1,1-Trichloroethane			ND (0) U/ND (0) U
1,1-Dichloroethene			ND (0) U/ND (0) U
Benzene	ND (0.001) U	ND (0.001) U	
Ethylbenzene	ND (0.001) U	ND (0.001) U	
Toluene	ND (0.001) U	ND (0.001) U	
Trichloroethene			ND (0) U/ND (0) U
Xylene (total)	ND (0.001) U	ND (0.001) U	

MW-4413.	12/1/2002
VOC	
1,1,2-Trichloroethane	ND (7)
Toluene	ND (7)
Xylene (total)	ND (7)

MW-4415.	12/1/2002
VOC	
1,1,2-Trichloroethane	ND (5.5)

B-4142	8-10(ft) 11/1/2002
INORG	
Aluminum	7220
Cobalt	6.1
Iron	17900
Magnesium	11500
Manganese	516 J

B-4279.	11/1/2002 9-10(ft)
INORG	
Aluminum	18.9
Antimony	ND (0.01) U
Cobalt	0.02
Iron	49.6
Magnesium	52.4
Manganese	1.7
VOC	
1,1,1-Trichloroethane	ND (0.003) U
1,1,2-Trichloroethane	ND (0.003) U
1,1-Dichloroethene	ND (0.003) U
Benzene	ND (0.003) U
Ethylbenzene	ND (0.003) U
Toluene	ND (0.003) U
Trichloroethene	0.09
Xylene (total)	ND (0.01) U

MW-4407.	6/1/1993
VOC	
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Toluene	ND (0.001) U
Xylene (total)	ND (0.001) U

B-4141	10-12(ft) 11/1/2002
INORG	
Aluminum	5950
Cobalt	7
Iron	16600
Magnesium	16800
Manganese	503 J

B-4277.	11/1/2002 9-10(ft est)
INORG	
Aluminum	79.1
Antimony	ND (0.01) U
Cobalt	0.091
Iron	164
Magnesium	138
Manganese	5.7
VOC	
1,1,1-Trichloroethane	ND (0.003) U
1,1,2-Trichloroethane	ND (0.003) U
1,1-Dichloroethene	ND (0.003) U
Benzene	ND (0.003) U
Ethylbenzene	ND (0.003) U
Toluene	ND (0.003) U
Trichloroethene	0.073
Xylene (total)	ND (0.008) U

MW-4404.	11/1/1991	4/1/1992
VOC		
Benzene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Toluene	ND (0.001) U	ND (0.001) U
Xylene (total)	ND (0.001) U	ND (0.001) U

MW-4401.	11/1/1991	2/1/1992	12/1/2002
VOC			
1,1,2-Trichloroethane			ND (1.4)
Benzene	0.002	ND (0.001) U	
Ethylbenzene	ND (0.001) U	ND (0.001) U	
Toluene	ND (0.001) U	ND (0.001) U	ND (1.4)
Xylene (total)	0.002	ND (0.001) U	ND (1.4)

NOTES:

1. Plan based on plan provided by Delphi Corporation.
2. Soil analytical results (orange box) are reported in mg/kg.
   Groundwater analytical results (blue box) are reported at mg/l.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Groundwater results in red exceeds Drinking Water Screening Criteria.
   Soil results presented exceed drinking water protection (DWP) screening criteria.
   Only the deepest soil sample from each location is presented in this figure.
5. Potentiometric surface contours are inferred between measured points.
   See Figure 3 for site wide potentiometric surface contours.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

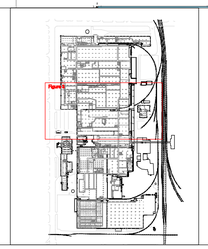
LEGEND

MW-4107 Monitoring Well (First Saturated Zone)

B-4271 Field Event #1 Boring Location

Estimated extent of free product based on Dec. 2002 Fluid Level Measurement

704 Estimated Potentiometric Surface Contours for First Saturated Zone



0 20 40 80 120
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

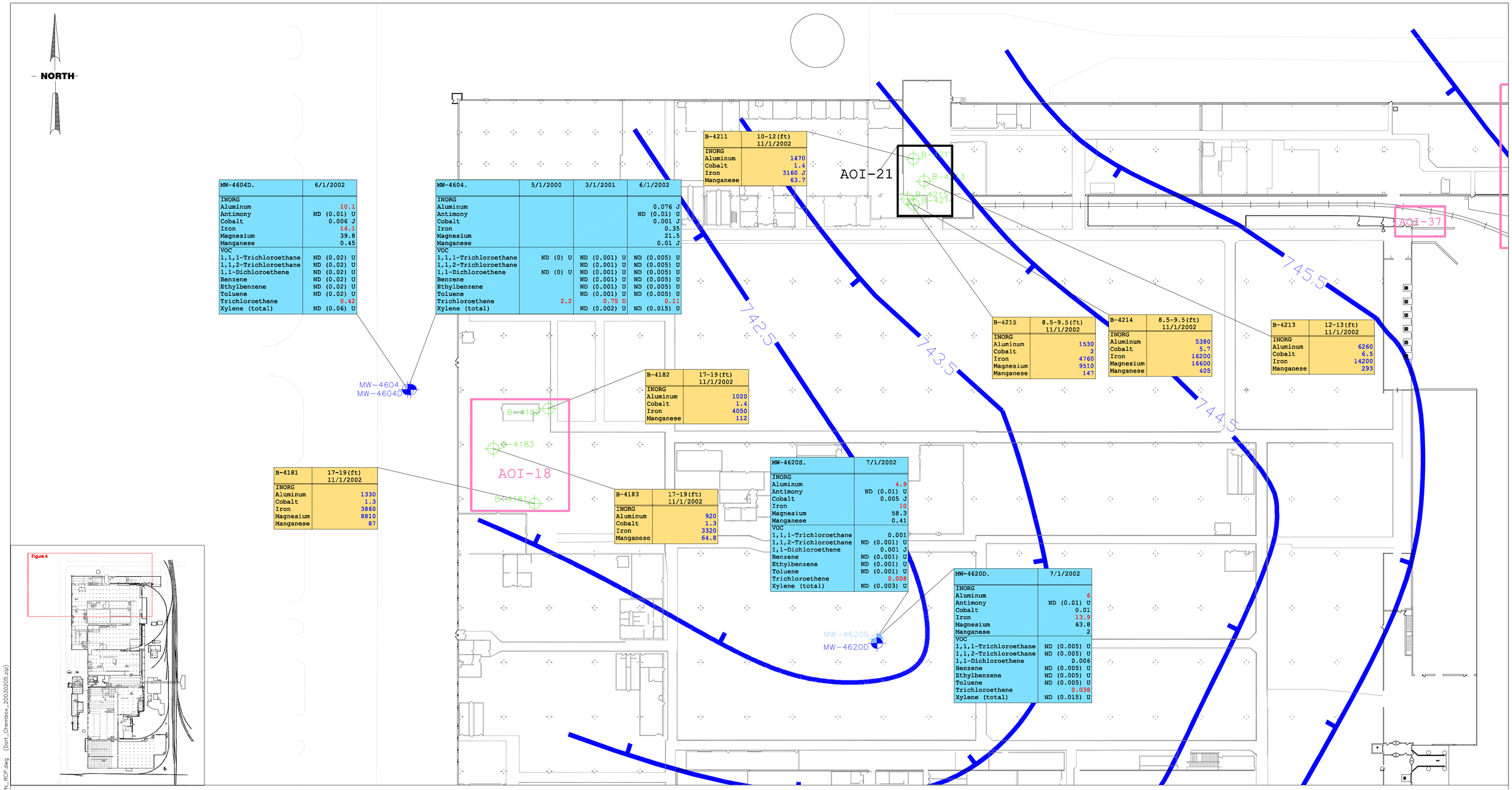
DELPHI CORPORATION
FLINT-EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

SOIL DWP SCREENING FOR
AOI-14 PHOSPHATER,
AOI-16 UDYLITE PLATING, AND
AOI-13 GRIDELY AREA

SCALE: AS SHOWN
March 28, 2003

FIGURE 3C

G:\49017\017\postings\Soil Migration\MIGRATION_RCP.dwg (Dort_Chembox_20030205.zip)



MW-4604D.	6/1/2002
INORG	
Aluminum	10.1
Antimony	ND (0.01) U
Cobalt	0.006 J
Iron	14.1
Magnesium	39.8
Manganese	0.45
VOC	
1,1,1-Trichloroethane	ND (0.02) U
1,1,2-Trichloroethane	ND (0.02) U
1,1-Dichloroethene	ND (0.02) U
Benzene	ND (0.02) U
Ethylbenzene	ND (0.02) U
Toluene	ND (0.02) U
Trichloroethene	0.42
Xylene (total)	ND (0.06) U

MW-4604.	5/1/2000	3/1/2001	6/1/2002
INORG			
Aluminum			0.076 J
Antimony			ND (0.01) U
Cobalt			0.001 J
Iron			0.35
Magnesium			21.5
Manganese			0.01 J
VOC			
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U	ND (0.005) U
1,1,2-Trichloroethane		ND (0.001) U	ND (0.005) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U	ND (0.005) U
Benzene		ND (0.001) U	ND (0.005) U
Ethylbenzene		ND (0.001) U	ND (0.005) U
Toluene		ND (0.001) U	ND (0.005) U
Trichloroethene	2.2	0.75 D	0.11
Xylene (total)		ND (0.002) U	ND (0.015) U

B-4211	10-12(ft) 11/1/2002
INORG	
Aluminum	1470
Cobalt	1.4
Iron	3160 J
Manganese	63.7

B-4215	8.5-9.5(ft) 11/1/2002
INORG	
Aluminum	1530
Cobalt	2
Iron	4760
Magnesium	9510
Manganese	147

B-4214	8.5-9.5(ft) 11/1/2002
INORG	
Aluminum	5380
Cobalt	5.7
Iron	16200
Magnesium	16600
Manganese	405

B-4213	12-13(ft) 11/1/2002
INORG	
Aluminum	6260
Cobalt	6.5
Iron	14200
Manganese	293

B-4182	17-19(ft) 11/1/2002
INORG	
Aluminum	1020
Cobalt	1.4
Iron	4050
Manganese	112

B-4181	17-19(ft) 11/1/2002
INORG	
Aluminum	1330
Cobalt	1.3
Iron	3860
Magnesium	8810
Manganese	87

B-4183	17-19(ft) 11/1/2002
INORG	
Aluminum	920
Cobalt	1.3
Iron	3320
Manganese	64.8

MW-4620S.	7/1/2002
INORG	
Aluminum	4.9
Antimony	ND (0.01) U
Cobalt	0.005 J
Iron	10
Magnesium	58.3
Manganese	0.41
VOC	
1,1,1-Trichloroethane	0.001
1,1,2-Trichloroethane	ND (0.001) U
1,1-Dichloroethene	0.001 J
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Toluene	ND (0.001) U
Trichloroethene	0.008
Xylene (total)	ND (0.003) U

MW-4620D.	7/1/2002
INORG	
Aluminum	6
Antimony	ND (0.01) U
Cobalt	0.01
Iron	13.9
Magnesium	63.8
Manganese	2
VOC	
1,1,1-Trichloroethane	ND (0.005) U
1,1,2-Trichloroethane	ND (0.005) U
1,1-Dichloroethene	0.006
Benzene	ND (0.005) U
Ethylbenzene	ND (0.005) U
Toluene	ND (0.005) U
Trichloroethene	0.038
Xylene (total)	ND (0.015) U

Figure 4

NOTES:

1. Plan based on plan provided by Delphi Corporation.
2. Soil analytical results (orange box) are reported in mg/kg.
   Groundwater analytical results (blue box) are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Groundwater results in red exceeds Drinking Water Screening Criteria.
   Soil results presented exceed drinking water protection (DWP) screening criteria.
   Only the deepest soil sample from each location is presented in this figure.
5. Potentiometric surface contours are inferred between measured points.
   See Figure 3 for site wide potentiometric surface contours.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

- MW-4107 Monitoring Well (Second Saturated Zone)
- MW-4107 Monitoring Well (First Saturated Zone)
- B-4271 Field Event #1 Boring Location
- 742.5 Estimated Potentiometric Surface Contours for First Saturated Zone

0 20 40 80 120
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

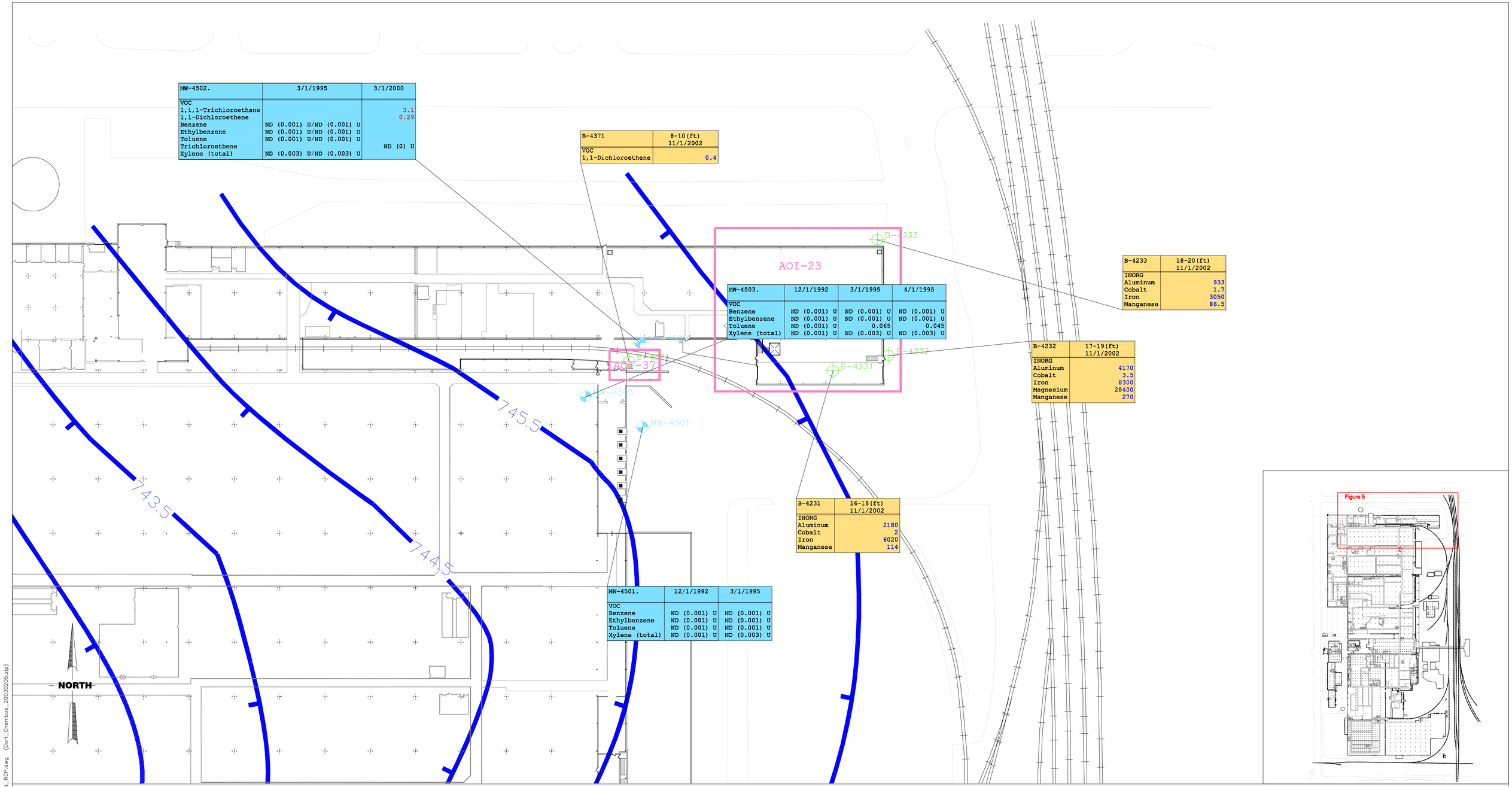
DELPHI CORPORATION
FLINT-EAST, PLANT 40D
DORT HIGHWAY
FLINT, MICHIGAN

SOIL DWP SCREENING FOR AOI-18 FORMER ZINC HYDROXIDE TANK AND AOI-21 USED OIL UST TANKS #4024 & #4025

SCALE: AS SHOWN
March 28, 2003

FIGURE 4C

G:\49017\017\postings\Soil Migration\MIGRATION_RCP.dwg (Dort_Chembox_20030205.zip)



MW-4502.	3/1/1995	3/1/2000
VOC		
1,1,1-Trichloroethane		3.1
1,1-Dichloroethene		0.29
Benzene	ND (0.001) U/ND (0.001) U	
Ethylbenzene	ND (0.001) U/ND (0.001) U	
Toluene	ND (0.001) U/ND (0.001) U	
Trichloroethene		ND (0) U
Xylene (total)	ND (0.003) U/ND (0.003) U	

B-4371	8-10(ft) 11/1/2002
VOC	
1,1-Dichloroethene	0.4

MW-4503.	12/1/1992	3/1/1995	4/1/1995
VOC			
Benzene	ND (0.001) U	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U	ND (0.001) U
Toluene	ND (0.001) U	0.065	0.045
Xylene (total)	ND (0.001) U	ND (0.003) U	ND (0.003) U

B-4233	18-20(ft) 11/1/2002
INORG	
Aluminum	933
Cobalt	1.7
Iron	3050
Manganese	86.5

B-4232	17-19(ft) 11/1/2002
INORG	
Aluminum	4170
Cobalt	3.5
Iron	8300
Magnesium	28400
Manganese	270

B-4231	16-18(ft) 11/1/2002
INORG	
Aluminum	2180
Cobalt	2
Iron	6020
Manganese	114

MW-4501.	12/1/1992	3/1/1995
VOC		
Benzene	ND (0.001) U	ND (0.001) U
Ethylbenzene	ND (0.001) U	ND (0.001) U
Toluene	ND (0.001) U	ND (0.001) U
Xylene (total)	ND (0.001) U	ND (0.003) U

NOTES:

1. Plan based on plan provided by Delphi Corporation.
2. Soil analytical results (orange box) are reported in mg/kg.
   Groundwater analytical results (blue box) are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Groundwater results in red exceeds Drinking Water Screening Criteria.
   Soil results presented exceed drinking water protection (DWP) screening criteria.
   Only the deepest soil sample from each location is presented in this figure.
5. Potentiometric surface contours are inferred between measured points.
   See Figure 3 for site wide potentiometric surface contours.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1–Dichloroethene (1,1–DCE) are different from the toxicity values for 1,1–DCE published in IRIS. There are no detected concentrations of 1,1–DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

MW-4107 Monitoring Well (Second Saturated Zone)

MW-4107 Monitoring Well (First Saturated Zone)

B-4271 Field Event #1 Boring Location

Estimated Potentiometric Surface Contours for First Saturated Zone

0 20 40 80 120
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

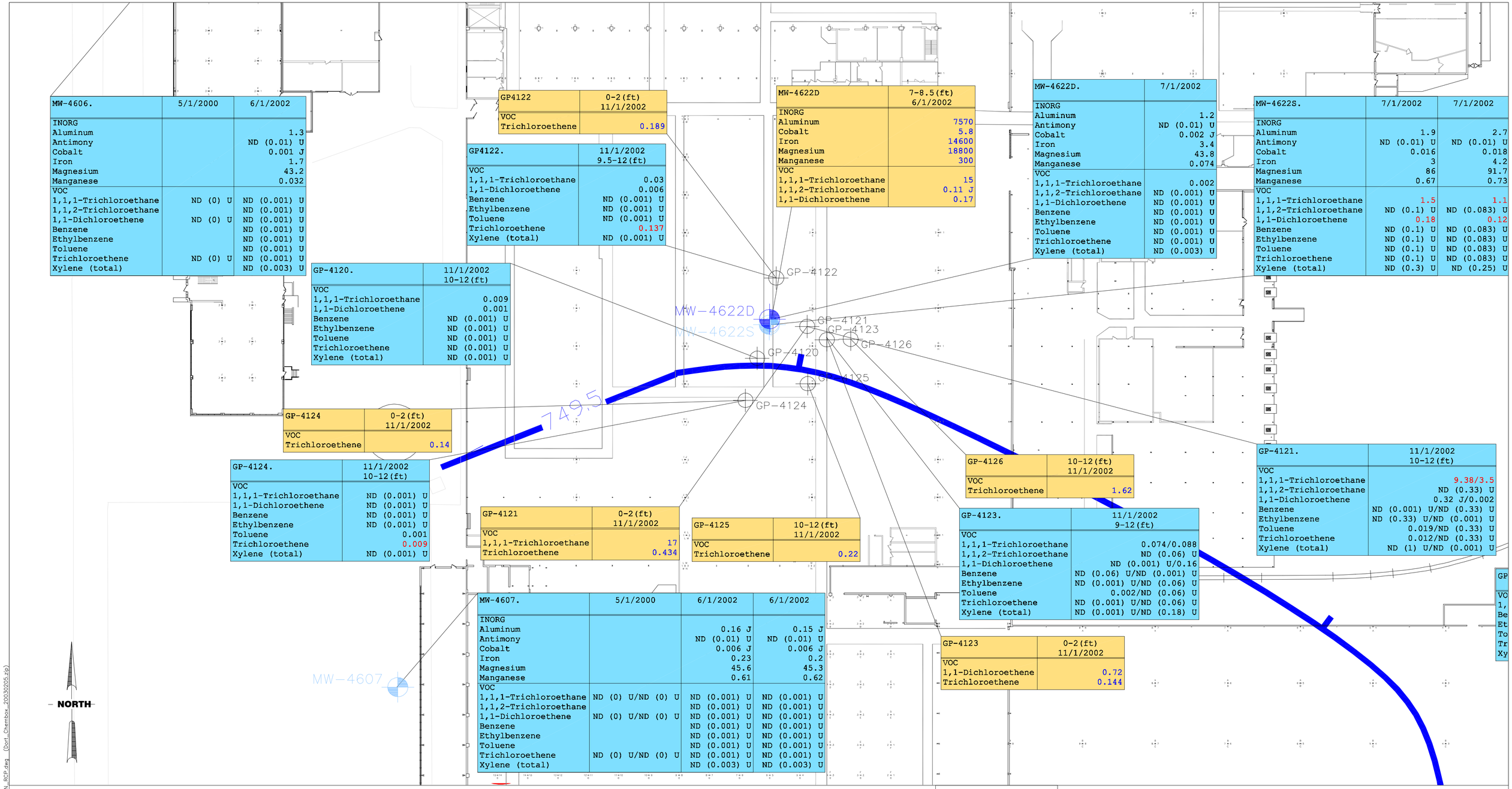
DELPHI CORPORATION
FLINT–EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

SOIL DWP SCREENING
FOR AOI–23 AUTOMATIC SCREW
AND AOI–37 FORMER USED VISCOR
UST

SCALE: AS SHOWN
March 28, 2003

FIGURE 5C

G:\49017\017\postings\Soil Migration\MIGRATION_RCP.dwg (Dort_Chembox_20030205.zip)



MW-4606.	5/1/2000	6/1/2002
INORG		
Aluminum		1.3
Antimony		ND (0.01) U
Cobalt		0.001 J
Iron		1.7
Magnesium		43.2
Manganese		0.032
VOC		
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U
1,1,2-Trichloroethane		ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U
Benzene		ND (0.001) U
Ethylbenzene		ND (0.001) U
Toluene		ND (0.001) U
Trichloroethene	ND (0) U	ND (0.001) U
Xylene (total)		ND (0.003) U

GP4122	0-2(ft) 11/1/2002
VOC	
Trichloroethene	0.189

GP4122.	11/1/2002 9.5-12(ft)
VOC	
1,1,1-Trichloroethane	0.03
1,1-Dichloroethene	0.006
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Toluene	ND (0.001) U
Trichloroethene	0.137
Xylene (total)	ND (0.001) U

GP-4120.	11/1/2002 10-12(ft)
VOC	
1,1,1-Trichloroethane	0.009
1,1-Dichloroethene	0.001
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Toluene	ND (0.001) U
Trichloroethene	ND (0.001) U
Xylene (total)	ND (0.001) U

GP-4124	0-2(ft) 11/1/2002
VOC	
Trichloroethene	0.14

GP-4124.	11/1/2002 10-12(ft)
VOC	
1,1,1-Trichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Toluene	0.001
Trichloroethene	0.009
Xylene (total)	ND (0.001) U

GP-4121	0-2(ft) 11/1/2002
VOC	
1,1,1-Trichloroethane	17
Trichloroethene	0.434

GP-4125	10-12(ft) 11/1/2002
VOC	
Trichloroethene	0.22

MW-4607.	5/1/2000	6/1/2002	6/1/2002
INORG			
Aluminum		0.16 J	0.15 J
Antimony		ND (0.01) U	ND (0.01) U
Cobalt		0.006 J	0.006 J
Iron		0.23	0.2
Magnesium		45.6	45.3
Manganese		0.61	0.62
VOC			
1,1,1-Trichloroethane	ND (0) U/ND (0) U	ND (0.001) U	ND (0.001) U
1,1,2-Trichloroethane		ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U/ND (0) U	ND (0.001) U	ND (0.001) U
Benzene		ND (0.001) U	ND (0.001) U
Ethylbenzene		ND (0.001) U	ND (0.001) U
Toluene		ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0) U/ND (0) U	ND (0.001) U	ND (0.001) U
Xylene (total)		ND (0.003) U	ND (0.003) U

MW-4622D	7-8.5(ft) 6/1/2002
INORG	
Aluminum	7570
Cobalt	5.8
Iron	14600
Magnesium	18800
Manganese	300
VOC	
1,1,1-Trichloroethane	15
1,1,2-Trichloroethane	0.11 J
1,1-Dichloroethene	0.17

MW-4622D.	7/1/2002
INORG	
Aluminum	1.2
Antimony	ND (0.01) U
Cobalt	0.002 J
Iron	3.4
Magnesium	43.8
Manganese	0.074
VOC	
1,1,1-Trichloroethane	0.002
1,1,2-Trichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Toluene	ND (0.001) U
Trichloroethene	ND (0.001) U
Xylene (total)	ND (0.003) U

MW-4622S.	7/1/2002	7/1/2002
INORG		
Aluminum	1.9	2.7
Antimony	ND (0.01) U	ND (0.01) U
Cobalt	0.016	0.018
Iron	3	4.2
Magnesium	86	91.7
Manganese	0.67	0.73
VOC		
1,1,1-Trichloroethane	1.5	1.1
1,1,2-Trichloroethane	ND (0.1) U	ND (0.083) U
1,1-Dichloroethene	0.18	0.12
Benzene	ND (0.1) U	ND (0.083) U
Ethylbenzene	ND (0.1) U	ND (0.083) U
Toluene	ND (0.1) U	ND (0.083) U
Trichloroethene	ND (0.1) U	ND (0.083) U
Xylene (total)	ND (0.3) U	ND (0.25) U

GP-4126	10-12(ft) 11/1/2002
VOC	
Trichloroethene	1.62

GP-4123.	11/1/2002 9-12(ft)
VOC	
1,1,1-Trichloroethane	0.074/0.088
1,1,2-Trichloroethane	ND (0.06) U
1,1-Dichloroethene	ND (0.001) U/0.16
Benzene	ND (0.06) U/ND (0.001) U
Ethylbenzene	ND (0.001) U/ND (0.06) U
Toluene	0.002/ND (0.06) U
Trichloroethene	ND (0.001) U/ND (0.06) U
Xylene (total)	ND (0.001) U/ND (0.18) U

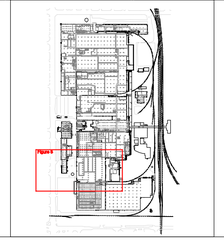
GP-4123	0-2(ft) 11/1/2002
VOC	
1,1-Dichloroethene	0.72
Trichloroethene	0.144

GP-4121.	11/1/2002 10-12(ft)
VOC	
1,1,1-Trichloroethane	9.38/3.5
1,1,2-Trichloroethane	ND (0.33) U
1,1-Dichloroethene	0.32 J/0.002
Benzene	ND (0.001) U/ND (0.33) U
Ethylbenzene	ND (0.33) U/ND (0.001) U
Toluene	0.019/ND (0.33) U
Trichloroethene	0.012/ND (0.33) U
Xylene (total)	ND (1) U/ND (0.001) U

NOTES:
1. Plan based on plan provided by Delphi Corporation.
2. Soil analytical results (orange box) are reported in mg/kg.
   Groundwater analytical results (blue box) are reported in mg/L.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Groundwater results in red exceeds Drinking Water Screening Criteria.
   Soil results presented exceed drinking water protection (DWP) screening criteria.
   Only the deepest soil sample from each location is presented in this figure.
5. Potentiometric surface contours are inferred between measured points.
   See Figure 3 for site wide potentiometric surface contours.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

- MW-4107 Monitoring Well (Second Saturated Zone)
- MW-4107 Monitoring Well (First Saturated Zone)
- GP-4001 Direct Push Delineation Boring Location
- 760.5 Estimated Potentiometric Surface Contours for First Saturated Zone



0 15 30 60 90
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

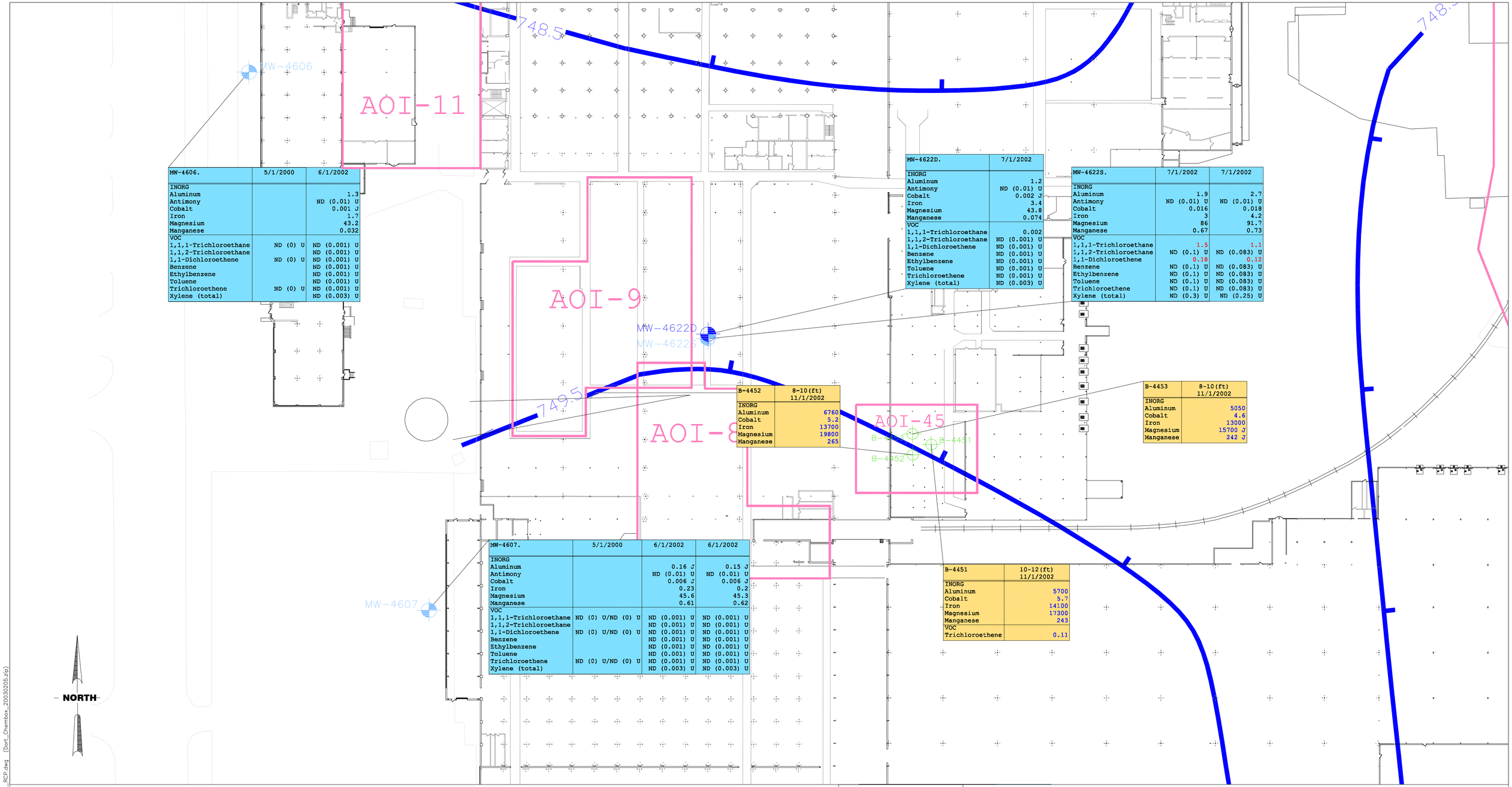
DELPHI CORPORATION
FLINT-EAST, PLANT 4OD
DORT HIGHWAY
FLINT, MICHIGAN

SOIL DWP SCREENING
FOR BUILDING 4082

SCALE: AS SHOWN
March 28, 2003

FIGURE 6C

G:\49017\017\postings\Soil Migration\MIGRATION_RGP.dwg (Dort_Chembox_20030205.zip)



MW-4606.	5/1/2000	6/1/2002
INORG		
Aluminum		1.3
Antimony		ND (0.01) U
Cobalt		0.001 J
Iron		1.7
Magnesium		43.2
Manganese		0.032
VOC		
1,1,1-Trichloroethane	ND (0) U	ND (0.001) U
1,1,2-Trichloroethane		ND (0.001) U
1,1-Dichloroethene	ND (0) U	ND (0.001) U
Benzene		ND (0.001) U
Ethylbenzene		ND (0.001) U
Toluene		ND (0.001) U
Trichloroethene	ND (0) U	ND (0.001) U
Xylene (total)		ND (0.003) U

MW-4622D.	7/1/2002
INORG	
Aluminum	1.2
Antimony	ND (0.01) U
Cobalt	0.002 J
Iron	3.4
Magnesium	43.8
Manganese	0.074
VOC	
1,1,1-Trichloroethane	0.002
1,1,2-Trichloroethane	ND (0.001) U
1,1-Dichloroethene	ND (0.001) U
Benzene	ND (0.001) U
Ethylbenzene	ND (0.001) U
Toluene	ND (0.001) U
Trichloroethene	ND (0.001) U
Xylene (total)	ND (0.003) U

MW-4622S.	7/1/2002	7/1/2002
INORG		
Aluminum	1.9	2.7
Antimony	ND (0.01) U	ND (0.01) U
Cobalt	0.016	0.018
Iron	3	4.2
Magnesium	86	91.7
Manganese	0.67	0.73
VOC		
1,1,1-Trichloroethane	1.5	1.1
1,1,2-Trichloroethane	ND (0.1) U	ND (0.083) U
1,1-Dichloroethene	0.18	0.12
Benzene	ND (0.1) U	ND (0.083) U
Ethylbenzene	ND (0.1) U	ND (0.083) U
Toluene	ND (0.1) U	ND (0.083) U
Trichloroethene	ND (0.1) U	ND (0.083) U
Xylene (total)	ND (0.3) U	ND (0.25) U

B-4452	8-10(ft) 11/1/2002
INORG	
Aluminum	6760
Cobalt	5.2
Iron	13700
Magnesium	19800
Manganese	265

B-4453	8-10(ft) 11/1/2002
INORG	
Aluminum	5050
Cobalt	4.6
Iron	13000
Magnesium	15700 J
Manganese	242 J

MW-4607.	5/1/2000	6/1/2002	6/1/2002
INORG			
Aluminum		0.16 J	0.15 J
Antimony		ND (0.01) U	ND (0.01) U
Cobalt		0.006 J	0.006 J
Iron		0.23	0.2
Magnesium		45.6	45.3
Manganese		0.61	0.62
VOC			
1,1,1-Trichloroethane	ND (0) U/ND (0) U	ND (0.001) U	ND (0.001) U
1,1,2-Trichloroethane		ND (0.001) U	ND (0.001) U
1,1-Dichloroethene	ND (0) U/ND (0) U	ND (0.001) U	ND (0.001) U
Benzene		ND (0.001) U	ND (0.001) U
Ethylbenzene		ND (0.001) U	ND (0.001) U
Toluene		ND (0.001) U	ND (0.001) U
Trichloroethene	ND (0) U/ND (0) U	ND (0.001) U	ND (0.001) U
Xylene (total)		ND (0.003) U	ND (0.003) U

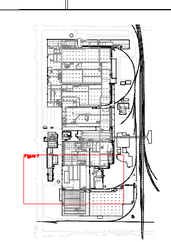
B-4451	10-12(ft) 11/1/2002
INORG	
Aluminum	5700
Cobalt	5.7
Iron	14100
Magnesium	17300
Manganese	243
VOC	
Trichloroethene	0.11

NOTES:

1. Plan based on plan provided by Delphi Corporation.
2. Soil analytical results (orange box) are reported in mg/kg.
   Groundwater analytical results (blue box) are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
   J – Indicates estimate value.
   ND (J) – Indicates estimated Reporting Limit.
   NS – Indicates the compound was not analyzed for.
   / – Indicates the data screen used averaged duplicate sample pairs.
4. Groundwater results in red exceeds Drinking Water Screening Criteria.
   Soil results presented exceed drinking water protection (DWP) screening criteria.
   Only the deepest soil sample from each location is presented in this figure.
5. Potentiometric surface contours are inferred between measured points.
   See Figure 3 for site wide potentiometric surface contours.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1-Dichloroethene (1,1-DCE) are different from the toxicity values for 1,1-DCE published in IRIS. There are no detected concentrations of 1,1-DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

- MW-4107 Monitoring Well (Second Saturated Zone)
- MW-4107 Monitoring Well (First Saturated Zone)
- B-4271 Field Event #1 Boring Location
- 748.5 Estimated Potentiometric Surface Contours for First Saturated Zone



0 20 40 80 120
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT-EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

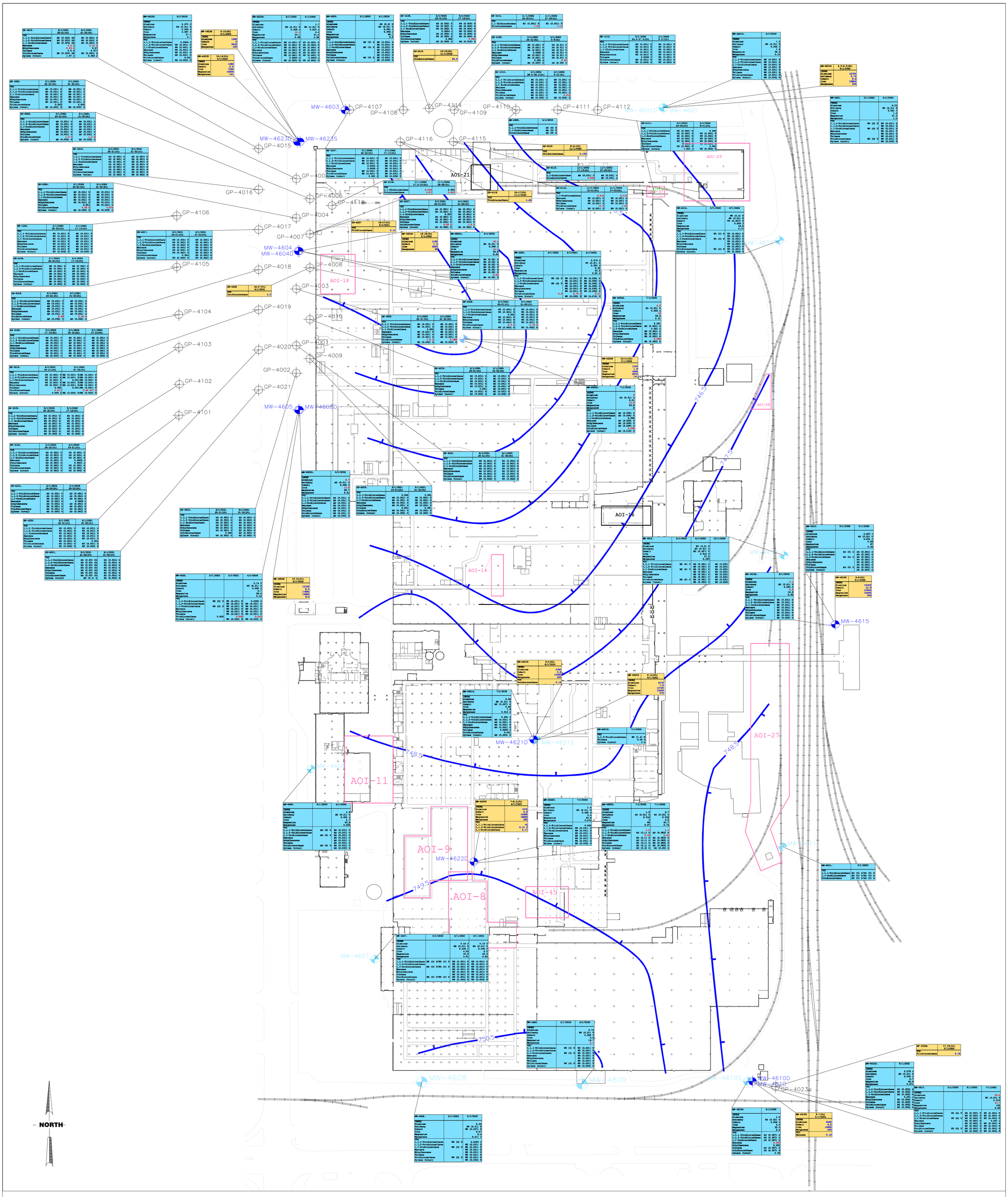
SOIL DWP SCREENING FOR AOI-45 COMPACTOR

SCALE: AS SHOWN

March 28, 2003

FIGURE 7C

G:\49017\017\postings\Soil Migration\MIGRATION_RCP.dwg (Dort_Chembox_20030205.zip)



NOTES:

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   Groundwater analytical results (blue box) are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
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   Soil results presented exceed drinking water protection (DWP) screening criteria.
   Only the deepest soil sample from each location is presented in this figure.
5. Potentiometric surface contours are inferred between measured points.
   See Figure 3 for site wide potentiometric surface contours.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1–Dichloroethene (1,1–DCE) are different from the toxicity values for 1,1–DCE published in IRIS. There are no detected concentrations of 1,1–DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

- MW-4107 — Monitoring Well (Second Saturated Zone)
- MW-4107 — Monitoring Well (First Saturated Zone)
- GP-4001 — Direct Push Delineation Boring Location
- 760.5 — Estimated Potentiometric Surface Contours for First Saturated Zone

0 40 80 160 240
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

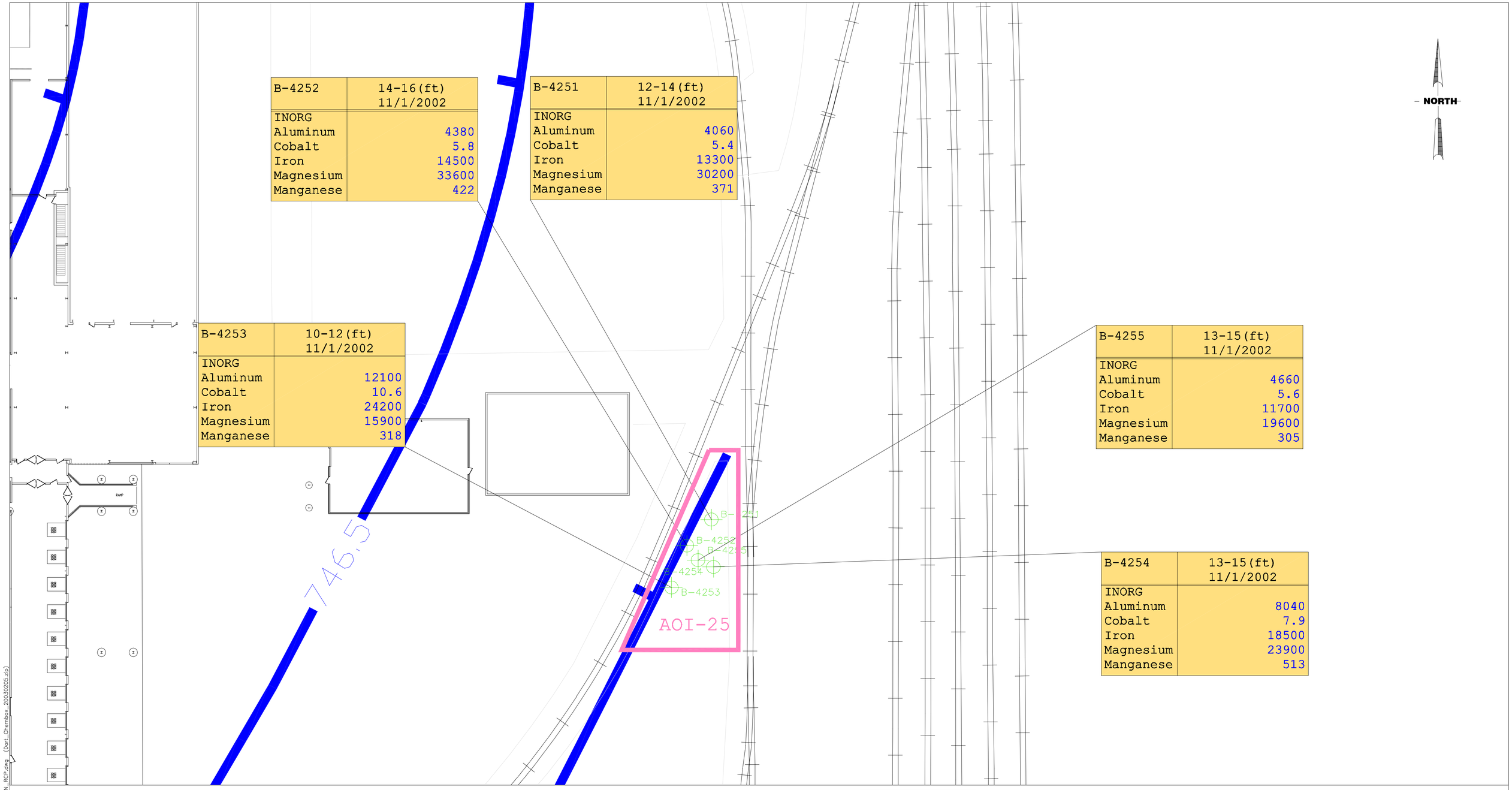
DELPHI CORPORATION
FLINT–EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

SITEWIDE SOIL DWP SCREENING

SCALE: AS SHOWN
March 28, 2003

FIGURE 8C

G:\49017\017\postings\Soil Migration\MIGRATION_RCP.dwg (Dort_Chembox_20030205.zip)



NOTES:

1. Plan based on plan provided by Delphi Corporation.
2. Soil analytical results (orange box) are reported in mg/kg.
   Groundwater analytical results (blue box) are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
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   Soil results presented exceed drinking water protection (DWP) screening criteria.
   Only the deepest soil sample from each location is presented in this figure.
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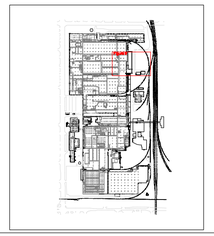
   See Figure 3 for site wide potentiometric surface contours.
6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1–Dichloroethene (1,1–DCE) are different from the toxicity values for 1,1–DCE published in IRIS. There are no detected concentrations of 1,1–DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

B-4271 Field Event #1 Boring Location

750.5 Estimated Potentiometric Surface Contours for First Saturated Zone



0 10 20 40 60
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

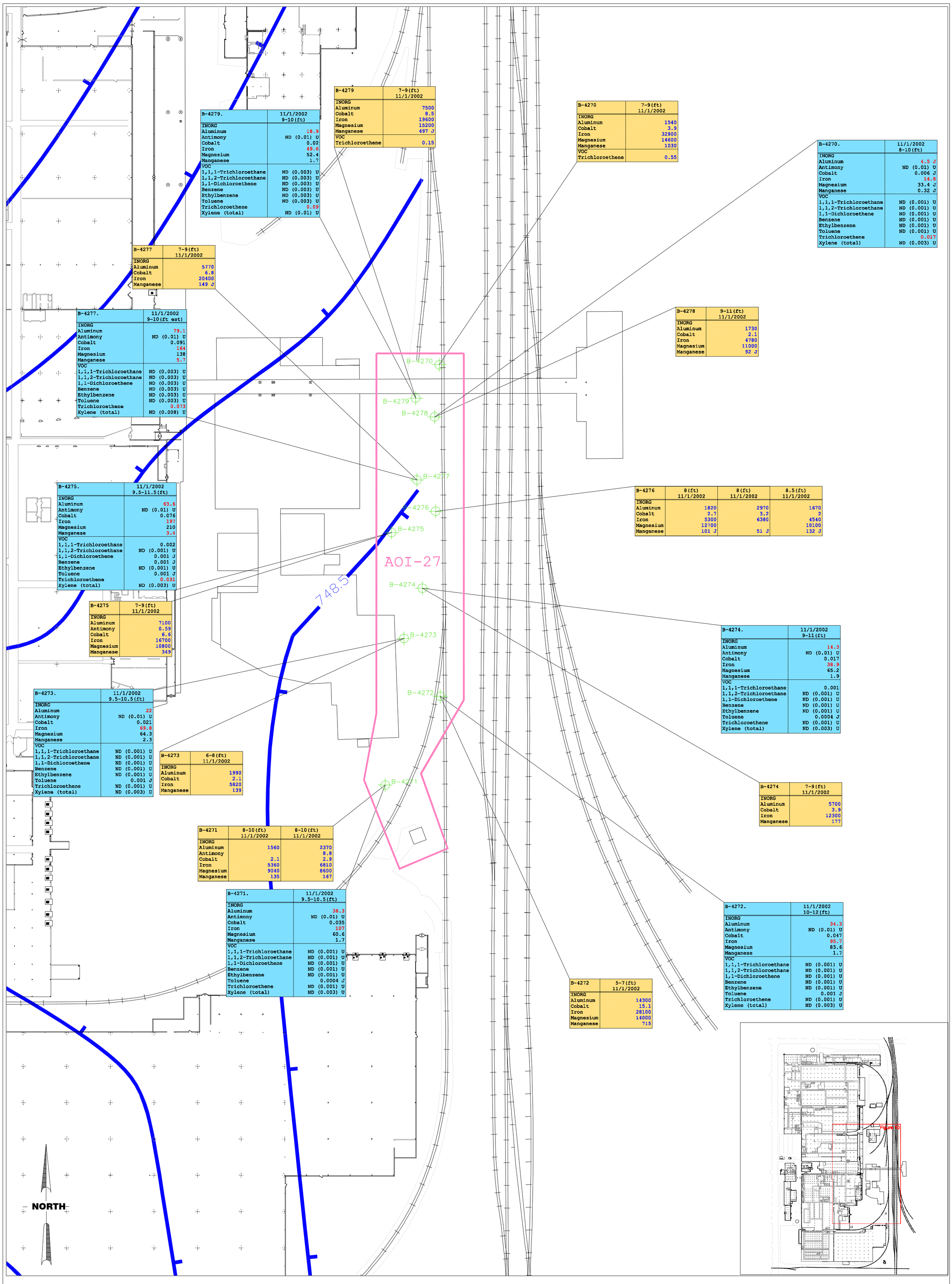
DELPHI CORPORATION
FLINT–EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

SOIL DWP SCREENING
FOR AOI–25 FORMER FIRE
TRAINING AREA

SCALE: AS SHOWN
March 28, 2003

FIGURE 9C

G:\49017\017\postings\Soil Migration\MIGRATION_RCP.dwg (Dort_Chemtox_20030205.zip)



NOTES:

1. Plan based on plan provided by Delphi Corporation.
2. Soil analytical results (orange box) are reported in mg/kg.
   Groundwater analytical results (blue box) are reported in mg/l.
3. ND – Indicates compound was analyzed for but not detected.
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   Soil results presented exceed drinking water protection (DWP) screening criteria.
   Only the deepest soil sample from each location is presented in this figure.
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6. The toxicity values that MDEQ used to calculate its screening criteria for 1,1–Dichloroethene (1,1–DCE) are different from the toxicity values for 1,1–DCE published in IRIS. There are no detected concentrations of 1,1–DCE at the Site that exceed screening criteria based on the IRIS toxicity values.

LEGEND

B-4271 Field Event #1 Boring Location

750.5 Estimated Potentiometric Surface Contours for First Saturated Zon

0 25 50 100 150
SCALE IN FEET

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

DELPHI CORPORATION
FLINT–EAST, PLANT 400
DORT HIGHWAY
FLINT, MICHIGAN

SOIL DWP SCREENING FOR
AOI–27 PUMP HOUSE/LIFT STATION
AND EASTER PROCESS SEWER

SCALE: AS SHOWN
March 28, 2003

FIGURE 10C

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