November Sampling Event, Vermont Street Investigation, Indianapolis, Indiana

Sample Location	Sample Date	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl chloride
General Motors at Allison Transmission						
Equipment Blank	11/9/2009	5 U	5 U	5 U	5 U	2 U
MW-0207-S2B	11/9/2009	5 U	5 U	5 U	5 U	2 U
MW-0208-S2A	11/5/2009	5 U	5 U	5 U	5 U	2 U
MW-0639-S2A	11/5/2009	5 U	5 U	5 U	5 U	2 U
MW-0901-S2B	11/9/2009	5 U	5 U	5 U	5 U	2 U
MW-0901-S3	11/9/2009	5 U	5 U	5 U	5 U	2 U
MW-0902-S3	11/9/2009	5 U	5 U	5 U	5 U	2 U
MW-0903-S3	11/9/2009	5 U	5 U	5 U	5 U	2 U
MW-0904-S2B	11/5/2009	5 U	5 U	5 U	5 U	2 U
MW-0904-S2B	11/9/2009	5 U	5 U	5 U	5 U	2 U
MW-0904-S3	11/5/2009	5 U	5 U	5 U	5 U	2 U
Trip Blank	11/9/2009	5 U	5 U	5 U	5 U	2 U
Genuine Parts						
132R	11/3/2009	<1.	9.8	<1.	**33**	<1.
133R	11/4/2009	<1.	3.1	<1.	4.2	<1.
145	11/4/2009	<1.	50	<1.	<1.	**5.4**
147AR	11/3/2009	<1.	<1.	<1.	<1.	<1.
148R	11/3/2009	<1.	**480**	<1.	**110**	**48**
153	11/3/2009	<1.	25	<1.	**190**	<1.
154	11/3/2009	<1.	<1.	<1.	<1.	<1.
161	11/4/2009	<1.	**100**	<1.	**110**	**5.2**
165S	11/3/2009	<1.	2.9	<1.	<1.	**2.4**
166S	11/3/2009	<1.	**170**	<1.	<1.	**6.5**
167S	11/3/2009	<1.	<1.	<1.	<1.	<1.
169S	11/3/2009	<1.	<1.	<1.	<1.	<1.
170S	11/3/2009	<1.	2	<1.	<1.	**5.2**
165D	11/3/2009	<1.	**280**	<1.	<1.	**400**
166D	11/3/2009	3.9	**1,100.00**	<1.	<1.	**240**
167D	11/3/2009	<1.	**580**	<1.	<1.	**34**
169D	11/3/2009	<1.	<1.	<1.	<1.	**14**
170D	11/3/2009	<1.	<1.	<1.	<1.	**200**
302	11/3/2009	<1.	<1.	<1.	<1.	<1.
Michigan Plaza						
MMW-1S	11/2/2009	<5.0	**119**	**189**	**39**	**26.6**
MMW-9S	11/2/2009	5.3	**5410**	<5.0	<5.0	**1050**
MMW-10S	11/2/2009	<5.0	**239**	**12.8**	**10.1**	**119**
MMW-11S	11/2/2009	<5.0	59.9	<5.0	<5.0	<2.0
MMW-11D	11/2/2009	<5.0	**771**	<5.0	<5.0	**18.8**
MMW-12S	11/2/2009	<5.0	28.8	<5.0	<5.0	**7.1**
MMW-13D	11/2/2009	<5.0	**949**	<5.0	<5.0	**182**
MMW-14D	11/2/2009	<5.0	**541**	<5.0	<5.0	**83.8**
Trip Blank	11/2/2009	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-8S	11/2/2009	<5.0	58.3	<5.0	<5.0	**277**
MMW-P-01	11/3/2009	<50.0	**9330**	**103**	**58.3**	**4770**
MMW-P02	11/3/2009	<5.0	60.1	**11.1**	<5.0	**73.9**
MMW-P-03S	11/3/2009	<5.0	**141**	<5.0	<5.0	**379**
MMW-P-03D	11/3/2009	<5.0	8.5	<5.0	<5.0	**168**
MMW-P-05	11/3/2009	<5.0	7.6	<5.0	<5.0	**2.7**
MMW-P-06	11/3/2009	<5.0	**107**	<5.0	<5.0	**292**
MMW-P-07	11/3/2009	<5.0	**809**	<5.0	<5.0	**1510**
MMW-P-08	11/3/2009	<50.0	**86.7**	<50.0	<50.0	**2860**
MMW-P-09S	11/3/2009	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-09D	11/3/2009	<5.0	<5.0	<5.0	<5.0	**87.1**
MMW-P-10S	11/3/2009	<5.0	29.6	<5.0	<5.0	**288**
MMW-P-10D	11/3/2009	<5.0	**2740**	<5.0	<5.0	**3500**
MMW-C-01	11/3/2009	<5.0	**211**	**12.6**	<5.0	**2720**
MMW-C-02	11/3/2009	<5.0	<5.0	<5.0	<5.0	<2.0
Dup 1	11/3/2009	<50.0	**91.5**	<50.0	<50.0	**2630**
Dup 2	11/3/2009	<50.0	**2180**	<50.0	<50.0	**3410**
Trip Blank	11/3/2009	<5.0	<5.0	<5.0	<5.0	<2.0
MW-168D	11/4/2009	<5.0	<5.0	<5.0	<5.0	**99.1**
MMW-P-04	11/5/2009	<5.0	**1190**	<5.0	<5.0	**90.9**
Trip Blank	11/4/2009	<5.0	<5.0	<5.0	<5.0	<2.0

November Sampling Event, Vermont Street Investigation, Indianapolis, Indiana

Sample Location	Sample Date	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl chloride
Residential						
[redacted]	11/20/2009	<0.22	<0.16	<0.29	<0.29	**54.0**
	12/2/2009	<0.22	<0.16	<0.29	<0.29	**62.7**
[redacted]	7/27/2009	<0.22	<0.16	<0.29	<0.29	<0.16
	8/5/2009	<0.22	<0.16	<0.29	<0.29	<0.16
	7/27/2009	<0.22	<0.16	<0.29	<0.29	<0.16
[redacted]	6/17/2009	NP	NP	NP	NP	NP
	6/29/2009	NP	NP	NP	NP	NP
	7/8/2009	NP	NP	NP	NP	NP
[redacted]	6/17/2009	NP	NP	NP	NP	NP
	6/17/2009	NP	NP	NP	NP	NP
[redacted]	6/29/2009	NP	NP	NP	NP	NP
	7/20/2009	NP	NP	NP	NP	NP
[redacted]	6/23/2009	<0.22	<0.16	<0.29	<0.29	<0.16
[redacted]	6/17/2009	NP	NP	NP	NP	NP
	7/20/2009	NP	NP	NP	NP	NP
[redacted]	6/23/2009	NP	NP	NP	NP	NP
	7/20/2009	NP	NP	NP	NP	NP
[redacted]	6/11/2009	<0.22	<0.16	<0.29	<0.29	**4.5**
	7/27/2009	<0.22	<0.16	<0.29	<0.29	**4.3**
	8/5/2009	<0.22	<0.16	<0.29	<0.29	**4.6**
	8/12/2009	<0.22	<0.16	<0.29	<0.29	**5.6**
	8/20/2009	<0.22	<0.16	<0.29	<0.29	**5.2**
	8/27/2009	<0.22	<0.16	<0.29	<0.29	1.3
	9/3/2009	<0.22	<0.16	<0.29	<0.29	**4.5**
	9/10/2009	<0.22	<0.16	<0.29	<0.29	**3.6**
	9/17/2009	<0.22	<0.16	<0.29	<0.29	**3.6**
	11/30/2009	<0.22	<0.16	<0.29	<0.29	**2.3**
[redacted]	6/11/2009	<0.22	<0.16	<0.29	<0.29	**2.1**
	6/25/2009	<0.22	<0.16	<0.29	<0.29	1.5
	7/27/2009	<0.22	<0.16	<0.29	<0.29	0.77
	8/12/2009	<0.22	<0.16	<0.29	<0.29	1.2
	8/27/2009	<0.22	<0.16	<0.29	<0.29	1.8
	9/3/2009	<0.22	<0.16	<0.29	<0.29	0.73
	9/10/2009	<0.22	<0.16	<0.29	<0.29	0.85
	9/17/2009	<0.22	<0.16	<0.29	<0.29	0.59
	11/30/2009	<0.22	<0.16	<0.29	<0.29	<0.16
[redacted]	7/22/2009	<0.22	<0.16	<0.29	<0.29	<0.16
	7/8/2009	<0.22	<0.16	<0.29	<0.29	<0.16
[redacted]	6/11/2009	<0.22	<0.16	<0.29	<0.29	<0.16
	7/6/2009	NP	NP	NP	NP	NP
[redacted]	6/25/2009	<0.22	<0.16	<0.29	<0.29	<0.16
	7/22/2009	<0.22	<0.16	<0.29	<0.29	<0.16
Maximum Contaminent Levels		**7**	**70**	**5**	**5**	**2**

U - Not detected above Laboratory Reporting Limit

NP - Residential Well sample collected; however, data not provided by USEPA or MCHD

Results in bold and highlighted exceed Maximum Contaminant Levels

SYMBOLS

MW-0517-S1	S1 MONITORING WELL
MW-0517-S2	S2 MONITORING WELL
MW-0517-S3	S3 MONITORING WELL
MW-0517-S4	S4 MONITORING WELL
RW-0201-S2	RECOVERY WELL
RW-0201-S3	RECOVERY WELL
MW-5	ABANDONED MONITORING WELL
MW-167D	MICHIGAN PLAZA/ GENUINE PARTS MONITORING WELL
4140 W. Vermont Street	RESIDENTIAL WATER WELL
BW9	DIESEL FUEL PLUME RECOVERY WELL
OSBW-3	ABANDONED DIESEL FUEL RECOVERY WELL
	PROPERTY BOUNDARY
	BUILDING OUTLINE
AOI 40	AREA OF INTEREST

MW-132R	11/3/2009	SAMPLE DATE
	mg/l	UNITS
	Groundwater	MATRIX
VOC		
1,1-Dichloroethene	0.001 U	RESULTS
cis-1,2-Dichloroethene	0.0098	
Tetrachloroethene	0.001 U	DATA QUALIFIER
Trichloroethene	0.033	RESULTS EXCEEDING SCREENING CRITERIA ARE HIGHLIGHTED IN GREEN
Vinyl Chloride	0.001 U	

SAMPLE LOCATION

ANALYTICAL PARAMETER

DEFINITIONS

S1 Saturated or Unsaturated Sand Unit encountered from
1 to 16.5 feet below ground surface (BGS) with a clay underneath and where saturated, it is considered perched.
S1 ranges in thickness from 14 to 16 feet.

S2 Saturated Sand Unit ranges from ranges in thickness of 6 to 43.5 (ft).
S2 may be subdivided into units S2A or S2B if a clay is present that divides the S2 unit.
S2A is encountered from 16.5 to 34 feet BGS and ranges in thickness from 4.5 to 15.5 feet.
S2B is encountered from 15 to 48.5 feet BGS and ranges in thickness from 3 to 20 feet.
If S2B is present, then the saturated unit above the till is named S2A.
If S2B is not present, then the saturated unit above the till is named S2.

S3 Saturated Sand Unit typically encountered from 37 to 76 feet BGS and ranges in thickness from 2.6 to 24.5 feet.

S4 Saturated Sand Unit typically encountered from 89 to 110 feet BGS and ranges in thickness from 4 to 10.5 feet.

T Saturated Till Unit encountered at 32 feet BGS at monitoring well MW-0204-T.

DATABOX INFORMATION

NS - Not analyzed for the specific constituent.

Water Analytical Results (mg/L)

Databoxes include constituents that were detected above screening criteria (Region 9 Industrial PRGs with a target cancer risk of 1 E-6 and a hazard quotient of 1) in one or more samples collected at the Site, except for the following:

- constituents with concentrations that exceed criteria in only borehole water samples; and
- constituents that are believed to be unrelated to the Facility and/or were detected only infrequently at low levels.

DATA QUALIFIERS

R - Rejected
U - Analyte/Compound was analyzed for but not detected.
UJ - Quantitation limit qualified as estimate.

VERMONT STREET INVESTIGATION
INDIANAPOLIS, INDIANA

LEGEND

ARCADIS

DRAWING
LEGEND

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=* OFF=*REF*
G:\APROJECT\ALLSTATE\IN\0473920-Corrective Measures\Off-Site Wells\November Gauging and Sampling Activities\Combined Data\gw flow maps\Drawing_legend_091211.dwg LAYOUT: LEGEND SAVED: 12/14/2009 3:10 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 12/14/2009 3:17 PM BY: FISHER, SARAH
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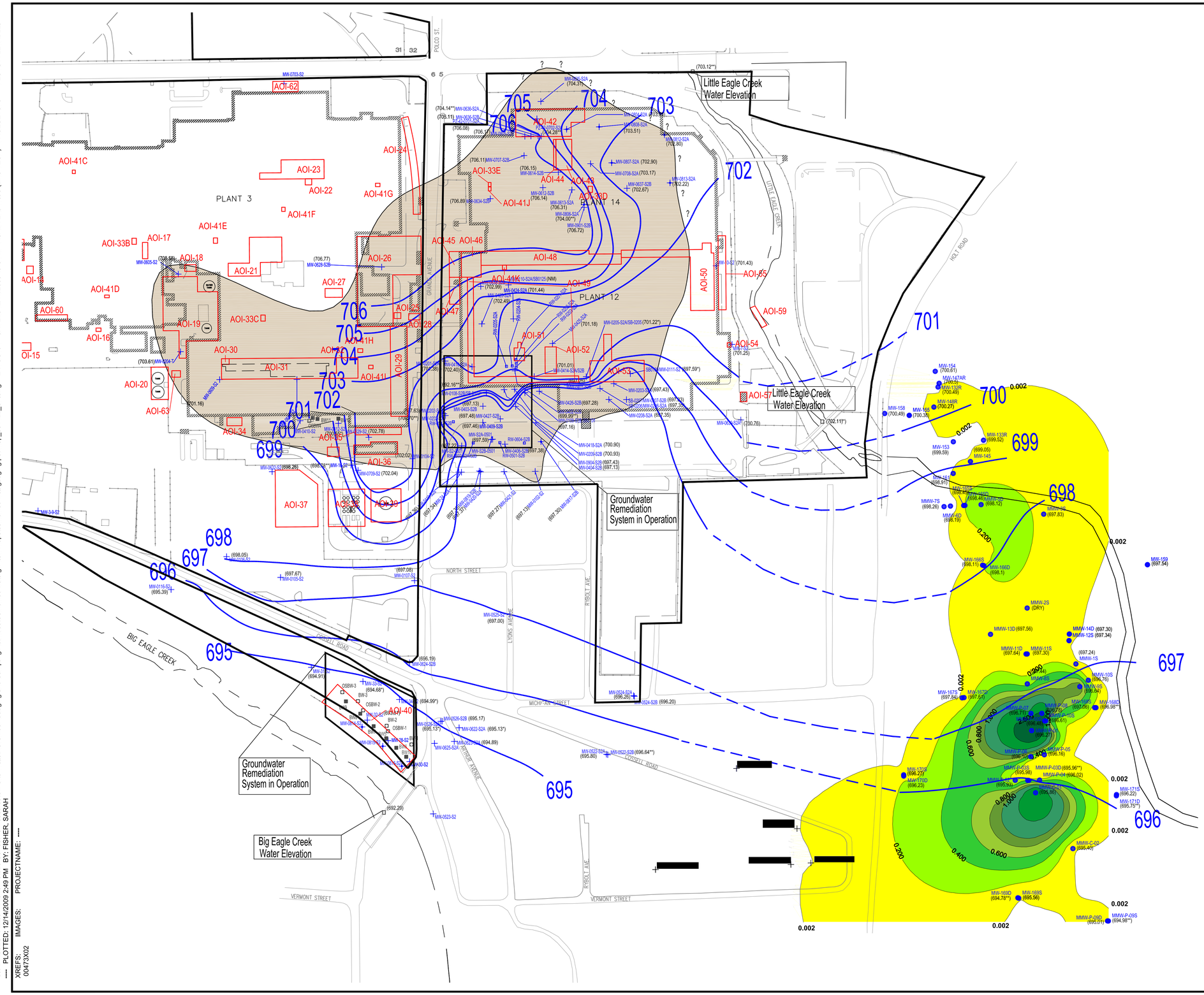

NOTES

706 — POTENTIOMETRIC SURFACE (DASHED WHERE INFERRED)
1 FT CONTOUR INTERVAL

MW-0617-S2 — ALLISON TRANSMISSION INC., MONITORING WELL WITH NOVEMBER 2009 POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)

MW-167D — MICHIGAN PLAZA/ GENUINE PARTS MONITORING WELL WITH NOVEMBER 2009 POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)

4140 W. Vermont Street — RESIDENTIAL WATER WELL

* — GROUNDWATER ELEVATION ADJUSTED DUE TO LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL)

** — GROUNDWATER ELEVATION NOT USED TO GENERATE CONTOURS

SURFACE WATER GAUGING LOCATION

NM — NOT MEASURED

S2 AND S2A MAY BE UNDER CONFINED OR UNCONFINED GROUNDWATER CONDITIONS
S2B IS ALWAYS UNDER CONFINED GROUNDWATER CONDITIONS

DESIGNATES AREA WHERE S2 OR S2A ARE UNDER CONFINED GROUNDWATER CONDITIONS

SHADING REPRESENTS VINYL CHLORIDE CONCENTRATIONS MG/L (AUGUST 2009-NOVEMBER 2009) IN THE S2 SATURATED UNIT(S)

- 2.5 mg/L
- 1.5 mg/L
- 1 mg/L
- 0.8 mg/L
- 0.6 mg/L
- 0.4 mg/L
- 0.2 mg/L
- 0.002 mg/L

Note:

Locations of monitoring wells associated with Genuine Parts and Michigan Plaza are based on survey data received by others.

Potentiometric surface for Genuine Parts and Michigan Plaza are based on depth to groundwater and casing elevation data provided by others. Elevations for Michigan Plaza were converted from NAVD 88 Datum to NGVD 1929 Datum.

Location of Little Eagle Creek is approximated based on reference to aerial photograph.

Groundwater concentrations for Genuine Parts and Michigan Plaza are based on data provided by others.

N

180 0 180
Approximate Scale In Feet

VERMONT STREET INVESTIGATION
INDIANAPOLIS, INDIANA

POTENTIOMETRIC SURFACE and VINYL CHLORIDE CONCENTRATION CONTOURS SAND UNIT S2 - NOVEMBER 2009

ARCADIS

DRAWING
1

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=REF*
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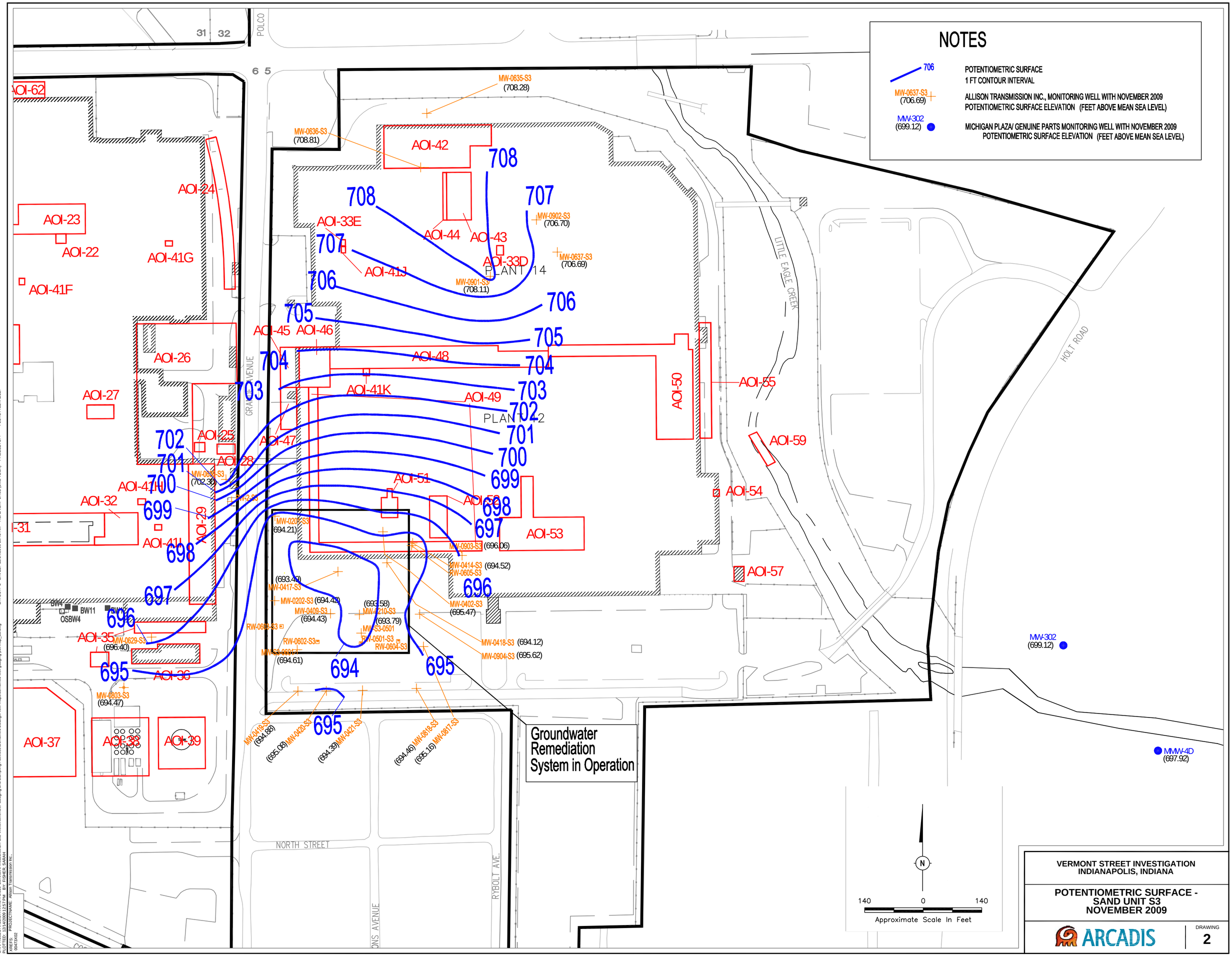
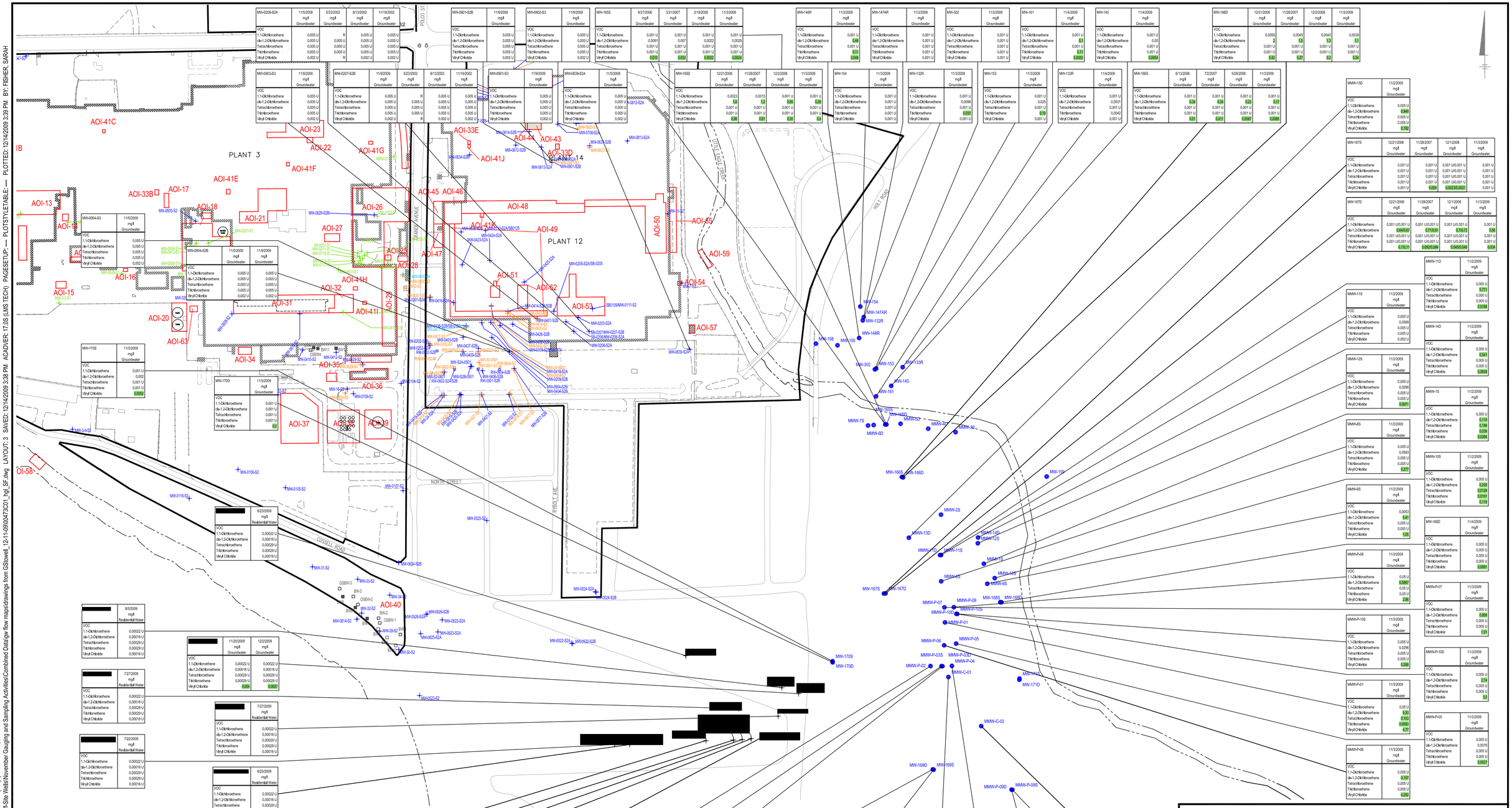

NOTES
706
POTENTIOMETRIC SURFACE
1 FT CONTOUR INTERVAL
MW-0637-S3
(706.69)
ALLISON TRANSMISSION INC., MONITORING WELL WITH NOVEMBER 2009
POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
MW-302
(699.12)
MICHIGAN PLAZA/ GENUINE PARTS MONITORING WELL WITH NOVEMBER 2009
POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
POLCO
GRAND AVENUE
LITTLE EAGLE CREEK
HOLT ROAD
NORTH STREET
RYBOLT AVE.
PLANT 14
PLANT 12
Groundwater
Remediation
System in Operation
Approximate Scale In Feet
140
0
140
N
VERMONT STREET INVESTIGATION
INDIANAPOLIS, INDIANA
POTENTIOMETRIC SURFACE -
SAND UNIT S3
NOVEMBER 2009
ARCADIS
DRAWING
2



MW-0208-S2A	11/5/2009	5/23/2002	8/13/2002	11/19/2002
	mg/l	mg/l	mg/l	mg/l
	Groundwater	Groundwater	Groundwater	Groundwater
VOC				
1,1-Dichloroethene	0.005 U	R	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	R	0.002 U	0.002 U

MW-0901-S2B	11/9/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-0902-S3	11/9/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-165S	9/27/2006	3/21/2007	3/19/2008	11/3/2009
	mg/l	mg/l	mg/l	mg/l
	Groundwater	Groundwater	Groundwater	Groundwater
VOC				
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.0091	0.007	0.0022	0.0029
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.715	0.253	0.0022	0.0024

MW-148R	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.49
Tetrachloroethene	0.001 U
Trichloroethene	0.31
Vinyl Chloride	0.048

MW-147AR	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
Tetrachloroethene	0.001 U
Trichloroethene	0.001 U
Vinyl Chloride	0.001 U

MW-302	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
Tetrachloroethene	0.001 U
Trichloroethene	0.001 U
Vinyl Chloride	0.001 U

MW-161	11/4/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	5.1
Tetrachloroethene	0.001 U
Trichloroethene	0.11
Vinyl Chloride	0.0052

MW-145	11/4/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.05
Tetrachloroethene	0.001 U
Trichloroethene	0.001 U
Vinyl Chloride	0.0054

MW-16D	12/21/2006	11/28/2007	12/2/2008	11/3/2009
	mg/l	mg/l	mg/l	mg/l
	Groundwater	Groundwater	Groundwater	Groundwater
VOC				
1,1-Dichloroethene	0.0059	0.0045	0.0043	0.0039
cis-1,2-Dichloroethene	8	8.8	5.9	5.3
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	4.42	4.27	6.3	6.24

MW-0903-S3	11/9/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-0207-S2B	11/9/2009	5/23/2002	8/13/2002	11/19/2002
	mg/l	mg/l	mg/l	mg/l
	Groundwater	Groundwater	Groundwater	Groundwater
VOC				
1,1-Dichloroethene	0.005 U	R	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	R	0.002 U	0.002 U

MW-0901-S3	11/9/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-0639-S2A	11/5/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-165D	12/21/2006	11/28/2007	12/2/2008	11/3/2009
	mg/l	mg/l	mg/l	mg/l
	Groundwater	Groundwater	Groundwater	Groundwater
VOC				
1,1-Dichloroethene	0.0023	0.0015	0.001 U	0.001 U
cis-1,2-Dichloroethene	1.8	1.9	0.69	0.28
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.26	0.51	0.55	0.4

MW-154	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
Tetrachloroethene	0.001 U
Trichloroethene	0.001 U
Vinyl Chloride	0.001 U

MW-132R	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.0098
Tetrachloroethene	0.001 U
Trichloroethene	0.035
Vinyl Chloride	0.001 U

MW-153	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.025
Tetrachloroethene	0.001 U
Trichloroethene	0.39
Vinyl Chloride	0.001 U

MW-133R	11/4/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.0031
Tetrachloroethene	0.001 U
Trichloroethene	0.0042
Vinyl Chloride	0.001 U

MW-166S	6/13/2006	7/2/2007	5/28/2008	11/3/2009
	mg/l	mg/l	mg/l	mg/l
	Groundwater	Groundwater	Groundwater	Groundwater
VOC				
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	6.34	6.34	6.29	6.17
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.01	0.011	0.0087	0.0086

MMW-13D	11/2/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.340
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.192

MW-167S	12/21/2006	11/28/2007	12/1/2008	11/3/2009
	mg/l	mg/l	mg/l	mg/l
	Groundwater	Groundwater	Groundwater	Groundwater
VOC				
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Vinyl Chloride	0.001 U	0.004	0.0023/0.0021	0.001 U

MW-167D	12/21/2006	11/28/2007	12/1/2008	11/3/2009
	mg/l	mg/l	mg/l	mg/l
	Groundwater	Groundwater	Groundwater	Groundwater
VOC				
1,1-Dichloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
cis-1,2-Dichloroethene	0.846/0.87	0.71/0.63	0.78/.73	0.59
Tetrachloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Trichloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Vinyl Chloride	0.13/.11	0.092/0.084	0.045/0.049	0.034

MMW-11D	11/2/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.273
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0158

MMW-11S	11/2/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.099
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MMW-14D	11/2/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.541
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0638

MMW-12S	11/2/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0288
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0079

MMW-1S	11/2/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.119
Tetrachloroethene	0.118
Trichloroethene	0.028
Vinyl Chloride	0.0058

MMW-8S	11/2/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0583
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.277

MMW-10S	11/2/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.229
Tetrachloroethene	0.0128
Trichloroethene	0.0101
Vinyl Chloride	0.119

MMW-9S	11/2/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.0053
cis-1,2-Dichloroethene	5.41
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	1.06

MW-166D	11/4/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0061

MMW-P-08	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.05 U
cis-1,2-Dichloroethene	0.0862
Tetrachloroethene	0.05 U
Trichloroethene	0.05 U
Vinyl Chloride	0.08

MMW-P-07	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.809
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	1.51

MMW-P-10S	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0296
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.288

MMW-P-10D	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	2.74
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.3

MMW-P-01	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.05 U
cis-1,2-Dichloroethene	0.33
Tetrachloroethene	0.169
Trichloroethene	0.0553
Vinyl Chloride	0.77

MMW-P-05	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0076
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0027

MMW-P-06	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.197
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.258

MW-170S	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.002
Tetrachloroethene	0.001 U
Trichloroethene	0.001 U
Vinyl Chloride	0.0056

MW-170D	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
Tetrachloroethene	0.001 U
Trichloroethene	0.001 U
Vinyl Chloride	0.2

[redacted]	6/23/2009
	mg/l
	Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

[redacted]	8/5/2009
	mg/l
	Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

[redacted]	11/20/2009	12/2/2009
	mg/l	mg/l
	Groundwater	Groundwater
VOC		
1,1-Dichloroethene	0.00022 U	0.00022 U
cis-1,2-Dichloroethene	0.00016 U	0.00016 U
Tetrachloroethene	0.00029 U	0.00029 U
Trichloroethene	0.00029 U	0.00029 U
Vinyl Chloride	0.056	0.0022

[redacted]	7/27/2009
	mg/l
	Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

[redacted]	7/27/2009
	mg/l
	Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

[redacted]	7/22/2009
	mg/l
	Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

[redacted]	6/25/2009
	mg/l
	Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

[redacted]	6/11/2009
	mg/l
	Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

[redacted]	7/22/2009
	mg/l
	Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

[redacted]	9/3/2009	9/10/2009	9/17/2009	11/30/2009
	mg/l	mg/l	mg/l	mg/l
	Residential Water	Residential Water	Residential Water	Residential Water
VOC				
1,1-Dichloroethene	0.00022 U	0.00022 U	0.00022 U	0.00022 U
cis-1,2-Dichloroethene	0.00016 U	0.00016 U	0.00016 U	0.00016 U
Tetrachloroethene	0.00029 U	0.00029 U	0.00029 U	0.00029 U
Trichloroethene	0.00029 U	0.00029 U	0.00029 U	0.00029 U
Vinyl Chloride	0.0045	0.0036	0.0036	0.0023

[redacted]	7/8/2009
	mg/l
	Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

[redacted]	9/3/2009	9/10/2009	9/17/2009	11/30/2009
	mg/l	mg/l	mg/l	mg/l
	Residential Water	Residential Water	Residential Water	Residential Water
VOC				
1,1-Dichloroethene	0.00022 U	0.00022 U	0.00022 U	0.00022 U
cis-1,2-Dichloroethene	0.00016 U	0.00016 U	0.00016 U	0.00016 U
Tetrachloroethene	0.00029 U	0.00029 U	0.00029 U	0.00029 U
Trichloroethene	0.00029 U	0.00029 U	0.00029 U	0.00029 U
Vinyl Chloride	0.00073	0.00085	0.00059	0.00016 U

MMW-P02	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0601
Tetrachloroethene	0.0111
Trichloroethene	0.005 U
Vinyl Chloride	0.0179

MMW-P-03D	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0085
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.164

MW-169D	3/13/2006	11/28/2007	9/23/2008	11/3/2009
	mg/l	mg/l	mg/l	mg/l
	Groundwater	Groundwater	Groundwater	Groundwater
VOC				
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.016	0.001 U
Vinyl Chloride	0.007	0.016	0.016	0.014

MW-169S	3/13/2006	3/21/2007	3/19/2008	11/3/2009
	mg/l	mg/l	mg/l	mg/l
	Groundwater	Groundwater	Groundwater	Groundwater
VOC				
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.001	0.0021	0.0023	0.001 U

MMW-P-04	11/5/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.19
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0609

MMW-P-09S	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MMW-C-01	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.211
Tetrachloroethene	0.0128
Trichloroethene	0.005 U
Vinyl Chloride	2.72

MMW-P-09D	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0871

MMW-C-02	11/3/2009
	mg/l
	Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

NOTE:

1. SEE LEGEND FOR DRAWING INFORMATION.

200 0 200

Approximate Scale In Feet

VERMONT STREET INVESTIGATION
INDIANAPOLIS, INDIANA

VOC ANALYTICAL RESULTS

ARCADIS

DRAWING
3

CITY: SYRACUSE DIV/GROUP: 141 DB: GMS LD: GMS PM:(Reqd) LYR: ON=*;OFF=REF
G:\APROJECT\ALLISTRN\M0473\020-Corrective Measures\Off-Site Wells\November Gauging and Sampling Activities\Combined Data\gw flow maps\drawings from GStowell_12-11-09\00473C01_hgl_SF.dwg LAYOUT: 3 SAVED: 12/14/2009 3:39 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 12/14/2009 3:39 PM BY: FISHER, SARAH

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