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Supplement No. 2 to RCRA Facility Investigation: Vermont Street Investigation Data Report

RCRA Corrective Action

Allison Transmission, Inc.

Speedway, Indiana

USEPA ID #IND006413348 & IND000806828

May 2010

ARCADIS

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Introduction 1

Results 2

Databox Presentation 2

Conclusions 3

Tables

1 Groundwater Analytical Results

Drawings

Legend

1 Volatile Organic Componds Analytial Results

Appendices

A Monitoring Well Locations – Vermont Street Investigation, Proposed to USEPA February 2010

B Montiroing Well Construction Logs

C Laboratory Analytical Reports

Introduction

The purpose of this data report is to present data collected at and in the vicinity of the Allison Transmission Facility during the additional investigation that was completed in March 2010. These data were collected to evaluate if chlorinated volatile organic compounds (CVOCs) have migrated in a lower groundwater unit from the Allison Transmission Facility and to confirm that CVOCs in groundwater from the Allison Transmission Facility do not commingle with the CVOCs detected in the vicinity of Vermont Street. This investigation was conducted in accordance with the sampling matrix submitted to the United States Environmental Protection Agency (USEPA) in February 2010 (Appendix A) and updated based on input from USEPA and the Indiana Department of Environmental Management (IDEM).

All monitoring well construction logs for the locations installed during this investigation are presented in Appendix B. Laboratory Analytical Reports for the investigation are presented in Appendix C. Tables summarizing data collected from monitoring wells during this investigation are presented as Table 1. Drawing 1 presents analytical databoxes for samples collected during this investigation as well as historical samples collected by Genuine Parts' consultants and Michigan Plaza's consultants in the vicinity of the investigation area.

Based on General Motors' (GM) previous investigation in the southern area and immediately south of the Allison Transmission facility, three distinct saturated sand units have been identified. Sand unit S1 is an intermittently saturated sand unit, typically encountered west of Grande Avenue (approximately 1 to 16 feet [ft] below ground surface [bgs]). Sand unit S2 can be either saturated or unsaturated and unconfined or confined, and is often separated into two units, depending on the presence or absence of an intermittent till layer (when separated into two units those units are referred to as S2A and S2B). Sand unit S2A is typically encountered between 13 ft and 30 ft bgs, while S2B is typically encountered between 17.5 and 46 ft bgs. Sand unit S3 is a confined saturated sand unit encountered beneath an extensive and continuous till layer below sand unit S2 and is typically encountered between 48 and 61 ft bgs. Two locations have extended into the next encountered saturated sand unit (S4) and have encountered this unit from 88 to 107 ft bgs.

The objective of this investigation was to install monitoring wells into the S2 and S3 units south of Plant 12 and to install nested monitoring wells in the S3 unit near MW-0524-S2A and MW-0524-S2B. While installing the monitoring well nest at MW-1002, GM determined it was appropriate to also evaluate the stratigraphy below sand unit S3

in this part of the Facility. While drilling the borehole, a saturated sand was encountered at 65 ft to 66.5 ft bgs. No additional saturated sand unit was identified in the borehole until reaching the S4 sand unit, encountered at 93 ft bgs. Given that the three private water wells of interest located in the neighborhood south of Allison Transmission Plant 12 are set at total depths of 35 ft, 62 ft, and 75 ft bgs, a monitoring well was installed to screen the saturated sand identified from 65 ft to 66.5 ft (identified as S3I4). During the installation, saturated sand units were encountered as described below:

MW-1001-S2B – S2B identified from 28 ft to 32.3 ft bgs
MW-1001-S3 – S3 identified from 44.5 ft to 48.5 ft bgs
MW-1002-S2B – S2B identified from 28 ft to 35.5
MW-1002-S3 – S3 identified from 43 ft to 49 ft bgs
MW-1002-S3I4 – S3I4identified from 65 ft to 66.5 ft bgs
MW-1003-S3 – S3 identified from 46 ft to 53 ft

Groundwater samples were collected from the five newly installed monitoring wells (MW-1001-S2B, MW-1001-S3, MW-1002-S2B, MW-1002-S3, MW-1002-S4 and MW-1003-S3), located south of Plant 12. The locations of these monitoring wells are shown on Drawing 1.

Results

All groundwater samples were analyzed for the target compound list (TCL) VOCs via USEPA Method SW-846 8260. VOCs were not detected in any of the groundwater samples with the exception of the following. Chloroform was detected in an equipment blank collected during the investigation. Based on discussions with the laboratory, chloroform is commonly present in commercially purchased deionized water. Chloroform and toluene were detected in monitoring well MW-1002-S4 at concentrations of 5.5 micrograms per liter (ug/L) and 24.2 ug/L, respectively. It is noted that the analytical results have not been independently validated at the time of this report. Any significant findings from validation will be submitted upon receipt.

Databox Presentation

To provide effective presentation of the data for evaluating whether CVOCs have migrated in groundwater from the Allison Transmission Facility and to confirm that CVOCs at the Allison Transmission Facility do not commingle with the CVOCs detected in the vicinity of Vermont Street, Drawing 1 presents databoxes with select

constituents. The constituent list is comprised of five CVOCs (1,1-dichloroethene , cis-1,2-DCE, tetrachloroethene, trichloroethene, and vinyl chloride) which were identified during the RCRA Facility Investigation (RFI) for the Allison Transmission Facility. Results exceeding maximum contaminant levels (MCLs) are highlighted on the figures. In addition, vinyl chloride was detected above the MCL in three private water wells in the Vermont Street neighborhood south of Allison Transmission Plant 12 during testing done by Marion County Health Department (in 2009)..

Additionally, databoxes summarizing analytical results for water samples collected by Marion County Health Department, Genuine Parts Company and Michigan Plaza are also shown on Drawing 1. These data were obtained through review of historical reports or receipt of the analytical results from the parties collecting the data.

Conclusions

The data collected to date demonstrate that CVOCs, specifically vinyl chloride, have not migrated in groundwater from the Allison Transmission Facility. Additionally, the data shows that CVOCs from the Allison Transmission Facility are not commingling with the CVOCs detected in the vicinity of Vermont Street. Based on the data presented, additional investigation is not warranted in relation to the evaluation of possible migration of groundwater with CVOC impacts from the Allison Transmission Facility to the Vermont Street neighborhood.

Table 1. Groundwater Analytical Results, General Motors LLC at Allison Transmission Inc., Speedway, Indiana

Chemical / Well ID	MW-1002-S2B	MW-1002-S3	MW-1002-S3I4	MW-1003-S3	MW-1001-S3	MW-1001-S2B
Date	4/27/2010	4/27/2010	4/27/2010	4/27/2010	4/27/2010	4/28/2010
Acetone	< 100	< 100	< 100	< 100	< 100	< 100
Benzene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone (MEK)	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Carbon disulfide	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Carbon tetrachloride	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 5.0	< 5.0	5.5	< 5.0	< 5.0	< 5.0
Chloromethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cyclohexane	< 100	< 100	< 100	< 100	< 100	< 100
1,2-Dibromo-3-chloropropane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane (EDB)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dichlorodifluoromethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,2-Dichloroethene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,3-Dichloropropene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Isopropylbenzene (Cumene)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl acetate	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Methylcyclohexane	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Methylene chloride	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Methyl-2-pentanone (MIBK)	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Methyl-tert-butyl ether	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Styrene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	< 5.0	< 5.0	24.2	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichlorotrifluoroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Xylene (Total)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0

Results in ug/L
Analytical results are unvalidated as of May 20, 2010.

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
SB-64-1002	SOIL BORING FOR VERMONT STREET INVESTIGATION
SB-64-1001	PIEZOMETER (TEMPORARY) FOR VERMONT STREET INVESTIGATION
MW-167D	MICHIGAN PLAZA/ GENUINE PARTS MONITORING WELL
GP89	GENUINE PARTS BOREHOLE LOCATION
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

SAMPLE LOCATION

MW-1001-S3	4/27/2010 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

ANALYTICAL PARAMETER

SAMPLE DATE
UNITS
SAMPLE INTERVAL (FEET BELOW GROUND SURFACE)
MATRIX
RESULTS
DATA QUALIFIER
RESULTS EXCEEDING SCREENING CRITERIA ARE HIGHLIGHTED IN GREEN

Screening Criteria	
Constituent	MCL
1,1-Dichloroethene	0.007
cis-1,2-Dichloroethene	0.07
Tetrachloroethene	0.005
Trichloroethene	0.005
Vinyl Chloride	0.002
Values in mg/L	
MCL - Maximum Contaminant Level	

MW-1001-S3	4/27/2010 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

DATABOXES OUTLINED IN GREEN PRESENT RESULTS FROM CURRENT INVESTIGATION

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 presented in milligrams per liter (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.

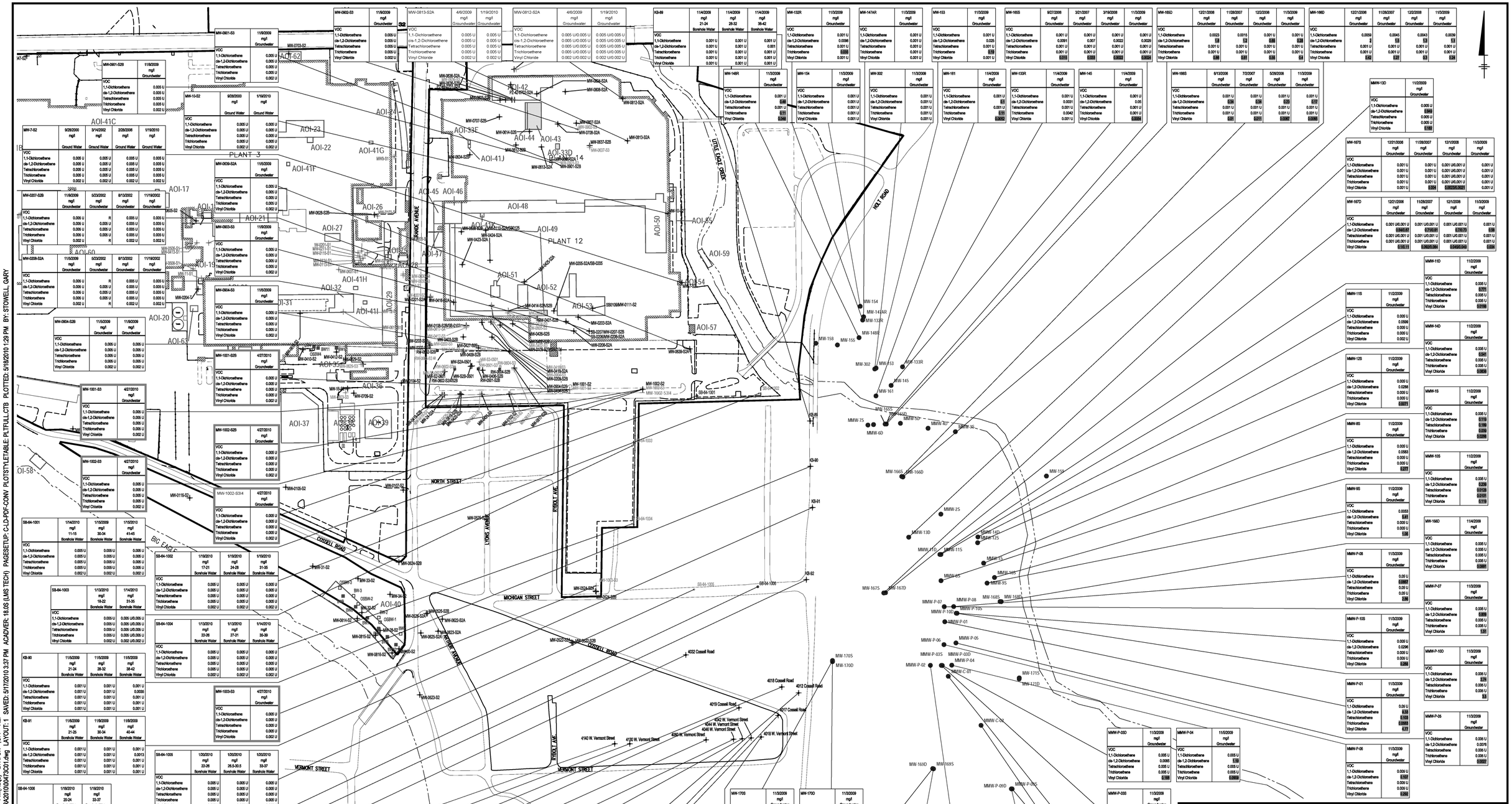
SUPPLEMENT TO RCRA FACILITY INVESTIGATION:
VERMONT STREET INVESTIGATION DATA REPORT
INDIANAPOLIS, INDIANA

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\ALLISTRN\IN0473\200-Corrective Measures\Field Investigations\Vermont Street Investigation\May 2010 - Data Report\Drawing_legend_100202_sf.dwg LAYOUT:LEGEND SAVED: 5/21/2010 8:16 AM ACADVER: 17.0S (LMS TECH) PAGESETUP:---- PLOTSTYLETABLE:---- PLOTTED: 5/21/2010 8:16 AM BY: FISHER, SARAH
XREFS: IMAGES: PROJECTNAME: ----
IN0047 3-BASE_ 2009 Color ; ogo.JPG



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-0813-S2A	4/6/2009 mg/l Groundwater	1/19/2010 mg/l Groundwater
VOC		
1,1-Dichloroethene	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U

MW-0812-S2A	4/6/2009 mg/l Groundwater	1/19/2010 mg/l Groundwater
VOC		
1,1-Dichloroethene	0.005 U/0.005 U	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/0.002 U	0.002 U/0.002 U

KB-89	11/4/2009 mg/l 21-24 Borehole Water	11/4/2009 mg/l 28-32 Borehole Water	11/4/2009 mg/l 38-42 Borehole Water
VOC			
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001
Tetrachloroethene	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.001 U	0.001 U	0.001 U

MW-132R	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	0.288
Vinyl Chloride	0.001 U

MW-147AR	11/5/2009 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-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	0.79
Vinyl Chloride	0.001 U

MW-165S	9/27/2006 mg/l Groundwater	3/21/2007 mg/l Groundwater	3/16/2008 mg/l Groundwater	11/3/2009 mg/l 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	0.0115	0.088	0.0022	0.0024

MW-185D	12/21/2006 mg/l Groundwater	11/28/2007 mg/l Groundwater	12/2/2008 mg/l Groundwater	11/3/2009 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.0023	0.0015	0.001 U	0.001 U
cis-1,2-Dichloroethene	5.9	5.2	4.88	5.28
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	0.38	0.81	0.58	0.4

MW-186D	12/21/2006 mg/l Groundwater	11/28/2007 mg/l Groundwater	12/2/2008 mg/l Groundwater	11/3/2009 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.0059	0.0045	0.0043	0.0039
cis-1,2-Dichloroethene	8	5.6	5.9	5.9
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	0.42	0.32	0.3	0.24

MW-7-S2	9/28/2000 mg/l Ground Water	3/14/2002 mg/l Ground Water	2/28/2006 mg/l Ground Water	1/19/2010 mg/l Ground Water
VOC				
1,1-Dichloroethene	0.005 U	0.005 U	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	0.002 U	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-10-S2	9/28/2000 mg/l Ground Water	1/19/2010 mg/l Ground Water
VOC		
1,1-Dichloroethene	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U
Vinyl Chloride	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-0907-S2B	11/9/2009 mg/l Groundwater	5/23/2002 mg/l Groundwater	8/13/2002 mg/l Groundwater	11/18/2002 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.005 U	0.005 U	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-0908-S2A	11/5/2009 mg/l Groundwater	5/23/2002 mg/l Groundwater	8/13/2002 mg/l Groundwater	11/18/2002 mg/l 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-0904-S2B	11/5/2009 mg/l Groundwater	11/9/2009 mg/l Groundwater
VOC		
1,1-Dichloroethene	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U

MW-0903-S2	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-0904-S3	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-1001-S2S	4/27/2010 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-1001-S3	4/27/2010 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-1002-S2S	4/27/2010 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-1002-S3	4/27/2010 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-1002-S3/4	4/27/2010 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

SB-64-1001	1/14/2010 mg/l 11-15 Borehole Water	1/15/2009 mg/l 30-34 Borehole Water	1/15/2010 mg/l 41-45 Borehole Water
VOC			
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U

SB-64-1002	1/15/2010 mg/l 17-21 Borehole Water	1/15/2010 mg/l 24-28 Borehole Water	1/15/2010 mg/l 31-35 Borehole Water
VOC			
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U

SB-64-1003	1/13/2010 mg/l 18-22 Borehole Water	1/14/2010 mg/l 31-35 Borehole Water
VOC		
1,1-Dichloroethene	0.005 U	0.005 UI0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 UI0.005 U
Tetrachloroethene	0.005 U	0.005 UI0.005 U
Trichloroethene	0.005 U	0.005 UI0.005 U
Vinyl Chloride	0.002 U	0.002 UI0.002 U

SB-64-1004	1/13/2010 mg/l 23-26 Borehole Water	1/13/2010 mg/l 27-31 Borehole Water	1/14/2010 mg/l 35-39 Borehole Water
VOC			
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U

KB-90	11/5/2009 mg/l 21-24 Borehole Water	11/5/2009 mg/l 28-32 Borehole Water	11/5/2009 mg/l 38-42 Borehole Water
VOC			
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.0035
Tetrachloroethene	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.001 U	0.001 U	0.001 U

KB-91	11/6/2009 mg/l 21-25 Borehole Water	11/9/2009 mg/l 30-34 Borehole Water	11/9/2009 mg/l 40-44 Borehole Water
VOC			
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.0013
Tetrachloroethene	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.001 U	0.001 U	0.001 U

SB-64-1005	1/20/2010 mg/l 22-26 Borehole Water	1/20/2010 mg/l 26.5-30.5 Borehole Water	1/20/2010 mg/l 33-37 Borehole Water
VOC			
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U

SB-64-1006	1/18/2010 mg/l 20-24 Borehole Water	1/18/2010 mg/l 33-37 Borehole Water
VOC		
1,1-Dichloroethene	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U

KB-92	11/9/2009 mg/l 20-24 Borehole Water	11/9/2009 mg/l 28-32 Borehole Water	11/9/2009 mg/l 36-40 Borehole Water
VOC			
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.001 U	0.001 U	0.001 U

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	0.51
Vinyl Chloride	0.045

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-302	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,3-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	0.1
Tetrachloroethene	0.001 U
Trichloroethene	0.51
Vinyl Chloride	0.0012

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-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-168S	8/13/2006 mg/l Groundwater	7/2/2007 mg/l Groundwater	5/29/2008 mg/l Groundwater	11/3/2009 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.34	0.34	0.29	0.17
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	0.0067	0.0065

MW-13D	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.969
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.192

MW-167S	12/21/2006 mg/l Groundwater	11/28/2007 mg/l Groundwater	12/1/2008 mg/l Groundwater	11/3/2009 mg/l 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	0.002U/0.0021	0.001 U

MW-167D	12/21/2006 mg/l Groundwater	11/28/2007 mg/l Groundwater	12/1/2008 mg/l Groundwater	11/3/2009 mg/l 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	1.86/1.87	2.74/1.81	2.79/1.79	1.78
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	0.10/0.13	0.062/0.064	0.0452/0.049	0.034

MW-11D	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.28
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0198

MW-11S	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0589
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-14D	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.545
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0858

MW-12S	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0289
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0071

MW-1S	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.115
Tetrachloroethene	0.118
Trichloroethene	0.055
Vinyl Chloride	0.0098

MW-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	0.072

MW-10S	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.228
Tetrachloroethene	0.0128
Trichloroethene	0.0105
Vinyl Chloride	0.119

MW-9S	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.0053
cis-1,2-Dichloroethene	0.61
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.16

MW-16RD	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	0.0091

MWW-P-08	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.05 U
cis-1,2-Dichloroethene	0.0667
Tetrachloroethene	0.05 U
Trichloroethene	0.05 U
Vinyl Chloride	2.96

MWW-P-07	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.308
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.59

MWW-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

MWW-P-10D	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.276
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.6

MWW-P-01	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.05 U
cis-1,2-Dichloroethene	0.35
Tetrachloroethene	0.105
Trichloroethene	0.0585
Vinyl Chloride	4.77

MWW-P-05	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0375
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0507

MWW-P-06	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.107
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.292

MWW-P-03D	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.195

MWW-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	0.0408

MWW-P-03S	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.145
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.375

MWW-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

MW-170S	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	0.0062

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	0.5

MWW-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	0.0728

MWW-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	0.0671

MW-09S	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.006 U
cis-1,2-Dichloroethene	0.006 U
Tetrachloroethene	0.006 U
Trichloroethene	0.006 U
Vinyl Chloride	0.002 U

MWW-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

4032 Cossell Road	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

4130 W. Vermont Street	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

4019 Cossell Road	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

4046 W. Vermont Street	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

4012 Cossell Road	11/20/2009 mg/l Groundwater	12/2/2009 mg/l 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	0.1064	0.13027

4017 Cossell Road	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

4016 W. Vermont Street	9/3/2009 mg/l Residential Water	9/10/2009 mg/l Residential Water	9/17/2009 mg/l Residential Water	11/30/2009 mg/l 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	0.00045	0.00056	0.00056	0.00029

4140 W. Vermont Street	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

4018 Cossell Road	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

4060 W. Vermont Street	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

4044 W. Vermont Street	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

4042 W. Vermont Street	9/3/2009 mg/l Residential Water	9/10/2009 mg/l Residential Water	9/17/2009 mg/l Residential Water	11/30/2009 mg/l 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	0.00026 U
Trichloroethene	0.00029 U	0.00029 U	0.00029 U	0.00026 U
Vinyl Chloride	0.00073	0.00085	0.00059	0.00016 U

MW-168D	3/13/2006 mg/l Groundwater	11/28/2007 mg/l Groundwater	9/23/2008 mg/l Groundwater	11/3/2009 mg/l 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	0.004	0.001 U
Vinyl Chloride	0.007	0.016	0.014	0.014

| MW-168S | 3/13/2006 mg/l Groundwater | 3/21/2007 mg/l Groundwater |

ARCADIS

Appendix A

Monitoring Well Locations – Vermont Street Investigation – Proposed to USEPA February 2010

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\APROJECT\ALISTRN\NO47\0020-Corrective Measures\Field Investigation\Vermont Street\Vermont St S3 Matrix\Vermont Street S3 Matrix.dwg LAYOUT: 1 SAVED: 2/1/2010 4:48 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 2/2/2010 1:13 PM BY:
FISHER, SARAH
XREFS: Vermont Street
IMAGES:
PROJECTNAME: —

ARCADIS

Appendix B

Montiroing Well
Construction Logs

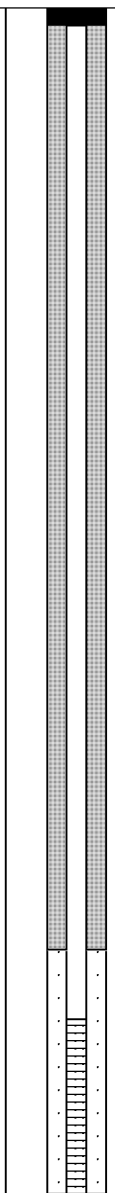
WELL CONSTRUCTION LOG

WELL NO.: **MW-1001-S2B**

TOTAL DEPTH: **35.00**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**GM/ENCORE (Allison Transmission)**	DRILLING CO.:	**WDC**
SITE LOCATION:	**Speedway, IN**	DRILLER:	**Tom Minor**
LOGGED BY:	**Tim Porter**	DRILLING METHOD:	**Sonic**
DATE STARTED:	**4/8/2010**	COORDINATES:	
DATE COMPLETED:	**4/12/2010**	**Northing:**	
		Easting:	
		TOC Elevation:	

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	SUDAN IV	PID (ppm)	WELL CONSTRUCTION DETAILS
0		CLAYEY SILT: Very dark, grayish brown (10YR 3/2), ML, CLAYEY SILT with common sand, many roots, organic matter, sl. moist, trace gravels.	MW-1001-S2B-01		0	Flush Mount PVC sch 40 bentonite-chips
			MW-1001-S2B-02		0	
		SANDY CLAY: Dark yellowish brown (10YR 4/4), SC, SANDY CLAY with silt, sl. moist, sl. plastic, trace gravels.	MW-1001-S2B-03		0	
5		SILTY SAND: Yellowish brown (10YR 5/4), SM, SILTY SAND with common gravels, few cobbles, dry-sl. moist.	MW-1001-S2B-04		0.2	
			MW-1001-S2B-05		0.3	
10		SILTY CLAY: Dark grayish brown (10YR 4/2), ML-CL, dense, firm, few coarse sands, few gravels, dry-sl. moist. Color change to gray (10YR 5/1) @ 20.5 ft., sl. moist.	MW-1001-S2B-06	Neg	0	
			MW-1001-S2B-07		0	
			MW-1001-S2B-08		0	
15			MW-1001-S2B-09		0.1	
			MW-1001-S2B-10		0	
20			MW-1001-S2B-11		0	
			MW-1001-S2B-12		0	
			MW-1001-S2B-13		0	
25			MW-1001-S2B-14		0	sand pack
		SAND: Light brownish gray (10YR 6/2), SM, fine-med. SAND, few coarse sands, wet - grain size slightly increases from 31.5-32.3 ft.; med-coarse sands with few gravels.	MW-1001-S2B-15		0	PVC sch 40
30			MW-1001-S2B-16	Neg	0	
		SILTY CLAY: Grayish brown (10YR 5/2), ML-CL, dense, firm, few coarse sands, few gravels, sl. moist. EOB @35.0 ft.	MW-1001-S2B-17		0	
35			MW-1001-S2B-18		0	



WELL CONSTRUCTION LOG

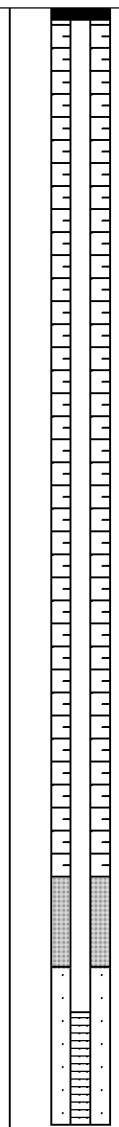
WELL NO.: **MW-1001-S3**

TOTAL DEPTH: **55.00**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**GM/ENCORE (Allison Transmission)**	DRILLING CO.:	**WDC**
SITE LOCATION:	**Speedway, IN**	DRILLER:	**Tom Minor**
LOGGED BY:	**Tim Porter**	DRILLING METHOD:	**Sonic**
DATE STARTED:	**4/8/2010**	COORDINATES:	
DATE COMPLETED:	**4/9/2010**	**Northing:**	
		Easting:	
		TOC Elevation:	

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION
0		SILT: Very dark grayish brown (10YR 3/2), ML-CL, sandy-clayey SILT, many roots, organic matter, sl. moist, common gravels.
5		SANDY CLAY: Dark yellowish brown (10YR 4/4), SC, SANDY CLAY with silt, sl. moist, sl. plastic, common gravels. Increase in clay content from 3.0-4.5 ft. 4.5-5.0 ft.: increase in sand content (SM).
10		SILTY SAND: Dark yellowish brown (10YR 4/4), SM-SP, SILTY SAND with many gravels, few cobbles, dry-sl. moist. 15.0-16.5 ft.: many cobbles/coarse gravels.
15		SILTY SAND: Dark yellowish brown (10YR 4/4), SM-SP, SILTY SAND with many gravels, few cobbles, dry-sl. moist. Mixed with grayish brown (10YR 5/2) dense, firm CL, dry-sl. moist, common coarse sands and gravels.
20		CLAY: Grayish brown (10YR 5/2) dense, firm CL, dry-sl. moist, common coarse sands and gravels. Color changing to gray (10YR 5/1) @23.5 ft.
25		
30		SAND: Light brownish gray (10YR 6/2), SM, med.-coarse SAND, few gravels, sl. moist-moist. Slight increase in moisture from 33-34 ft. (moist). 34.0-35.0 ft.: fine-med sands.
35		CLAY: Gray (10YR 5/1) dense, firm CL, dry-sl. moist, few-common coarse sands, trace gravels.
40		
45		SILTY SAND: Gray (10YR 5/1), SM-SP, med-coarse SANDS with few gravels, wet, loose. From 46.5-46.8 ft. inclusion of gray (10YR 5/1) silt, sl. moist. Very wet from 47.5-48.5 ft.
50		CLAY: Gray (10YR 5/1) dense, firm CL, dry-sl. moist, few-common coarse sands, trace gravels. EOB @55.0 ft.
55		

SAMPLE ID	SUDAN IV	PID (ppm)
MW-1001-S3-01		0
MW-1001-S3-02		0
MW-1001-S3-03		0
MW-1001-S3-04		0.1
MW-1001-S3-05		0.3
MW-1001-S3-06		0.1
MW-1001-S3-07		0.3
MW-1001-S3-08		0.1
MW-1001-S3-09		0.1
MW-1001-S3-10	Neg	0.1
MW-1001-S3-11		0
MW-1001-S3-12		0
MW-1001-S3-13		0
MW-1001-S3-14		0
MW-1001-S3-15		0
MW-1001-S3-16	Neg	0
MW-1001-S3-17		0
MW-1001-S3-18		0
MW-1001-S3-19		0
MW-1001-S3-20		0
MW-1001-S3-21		0
MW-1001-S3-22		0
MW-1001-S3-23		0.1
MW-1001-S3-24		0.5
MW-1001-S3-25	Neg	0.1
MW-1001-S3-26		0
MW-1001-S3-27		0
MW-1001-S3-28		0



Flush Mount
PVC sch 40
bent-cement grout

bentonite-chips

sand pack

PVC sch 40

WELL CONSTRUCTION LOG

WELL NO.: **MW-1002-S2B**

TOTAL DEPTH: **40.00**

PROJECT INFORMATION

PROJECT: **GM/ENCORE (Allison Transmission)**

SITE LOCATION: **Speedway, IN**

LOGGED BY: **Tim Porter**

DATE STARTED: **4/8/2010**

DATE COMPLETED: **4/14/2010**

DRILLING INFORMATION

DRILLING CO.: **WDC**

DRILLER: **Tom Minor**

DRILLING METHOD: **Sonic**

COORDINATES:

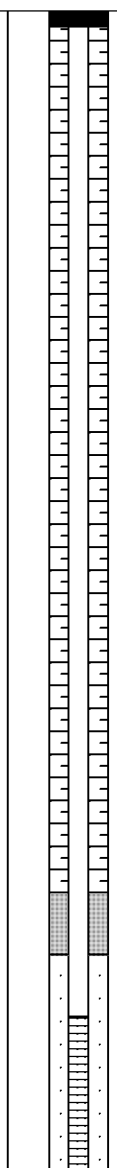
Northing:

Easting:

TOC Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION
0		CLAYEY SILT: Very dark grayish brown (10YR 3/2), ML-CL, CLAYEY SILT with few-common sands, many roots, organic matter, sl. moist.
5		SANDY CLAY: Dark yellowish brown (10YR 4/4), SC, SANDY CLAY, sl. moist, plastic, few-common gravels.
		SAND AND GRAVEL: Light yellowish brown (10YR 6/4), SM-SP, silty SAND AND GRAVELS, loose, dry, few cobbles. 7.5-8.5 ft. wet.
10		CLAYEY SILT: Yellowish brown (10YR 5/4), ML-CL, firm, sl. moist. 9.0-14.5'-color change to gray (10YR 5/1).
15		SAND AND GRAVEL: Light yellowish brown (10YR 6/4), SM, med-coarse SANDS AND GRAVELS mixed with ML-CL above, dry. 15.0-20.0 ft.- wet, grain size increases to coarse sands, gravels, few cobbles (~30% recovery). 20.0-20.5 ft.- med-coarse sand, few gravels, moist.
20		CLAYEY SILT: Grayish brown (10YR 5/2), ML-CL, firm, dense, dry, few coarse sands, few gravels. 24.0-28.0 ft. - color change to gray (10YR 5/1), sl. moist.
25		
30		SILTY SAND: Gray (10YR 5/1), SM, very fine SILTY SAND, wet. 30.0-32.5 ft.: above very fine silty sand mixed with med-coarse sands and gravels, few cobbles, wet. 32.2-32.5 ft.: inclusion of ML-CL (same as above 20.5-28.0 ft. interval).
		SAND AND GRAVEL: Gray (10YR 5/1), SM-SP, med-coarse SANDS AND GRAVELS, common cobbles, wet, loose.
35		CLAYEY SILT: Gray (10YR 5/1), ML-CL, firm, few coarse sands, few gravels, sl. moist. EOB @40.0 ft.
40		

SAMPLE ID	SUDAN IV	PID (ppm)
MW-1002-S2B-01		0
MW-1002-S2B-02		0
MW-1002-S2B-03		0
MW-1002-S2B-04		0
MW-1002-S2B-05	Neg	0
MW-1002-S2B-06		0
MW-1002-S2B-07		0
MW-1002-S2B-08		0
MW-1002-S2B-09		0
MW-1002-S2B-10		0
MW-1002-S2B-11	Neg	0
MW-1002-S2B-12		0
MW-1002-S2B-13		0
MW-1002-S2B-14		0
MW-1002-S2B-15		0
MW-1002-S2B-16		0
MW-1002-S2B-17		0
MW-1002-S2B-18	Neg	0
MW-1002-S2B-19		0
MW-1002-S2B-20		0



WELL CONSTRUCTION DETAILS:

- Flush Mount
- PVC sch 40
- bent-cement grout
- bentonite-chips
- sand pack
- PVC sch 40

WELL CONSTRUCTION LOG

ARCADIS

WELL NO.: **MW-1002-S3**

TOTAL DEPTH: **55.00**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**GM/ENCORE (Allison Transmission)**	DRILLING CO.:	**WDC**
SITE LOCATION:	**Speedway, IN**	DRILLER:	**Tom Minor**
LOGGED BY:	**Tim Porter**	DRILLING METHOD:	**Sonic**
DATE STARTED:	**4/8/2010**	COORDINATES:	
DATE COMPLETED:	**4/13/2010**	**Northing:**	
		Easting:	
		TOC Elevation:	

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	SUDAN IV	PID (ppm)	WELL CONSTRUCTION DETAILS
0		CLAYEY SILT: Very dark grayish brown (10YR 3/2), ML-CL, sandy CLAYEY SILT, many roots, organic matter, sl. moist, trace gravels.	MW-1002-S3-01		0.1	Flush Mount PVC sch 40 bent-cement grout
			MW-1002-S3-02		0.1	
5		SANDY CLAY: Dark yellowish brown (10YR 4/4), SC, SANDY CLAY with silt, sl. moist, plastic, few-common gravels.	MW-1002-S3-03		0.1	
			MW-1002-S3-04		0	
			MW-1002-S3-05	Neg	0	
10		SAND AND GRAVEL: Light yellowish brown (10YR 6/4), SM-SP, SAND AND GRAVELS, loose, dry, few cobbles. Moist from 7.0-8.5 ft. Layer of very pale brown (10YR 7/3) fine sand from 7.5-8.5 ft., moist. Coarse sands and gravels, few cobbles from 8.5-9.0 ft., wet.	MW-1002-S3-06		0	
			MW-1002-S3-07		0.1	
15			MW-1002-S3-08		0	
		CLAYEY SILT: Yellowish brown ((10YR 5/4), ML-CL, dense, sl. moist, few coarse sands, few gravels. Color change to gray (10YR 5/1) @10.5 ft. Color change to dark grayish brown (10YR 4/2) @14.5 ft. Becoming slightly softer, somewhat friable @26 ft.	MW-1002-S3-09		0	
			MW-1002-S3-10		0	
20			MW-1002-S3-11		0.1	
			MW-1002-S3-12		0.3	
25			MW-1002-S3-13		0	
			MW-1002-S3-14		0	
		SILTY SAND: Gray (10YR 5/1), SM, SILTY SAND (med-coarse), few gravels, wet. Small intermittent pockets of very fine sand from 28.5-29.5 ft. High silt/fine sand content from 30.5-31 ft. SM mixed with above ML-CL from 31-31.3 ft., 32.6-33 ft.	MW-1002-S3-15		0	
30			MW-1002-S3-16		0	
			MW-1002-S3-17		0	
35		SILTY SAND: (cont.) Common cobbles, gravels from 33.5-34.0 ft., wet, loose.	MW-1002-S3-18	Neg	0	
			MW-1002-S3-19		0	
		CLAYEY SILT: Gray (10YR 5/1), ML-CL, dense, sl. moist, few coarse sands, few gravels	MW-1002-S3-20		0	bentonite-chips
40			MW-1002-S3-21		0	sand pack
			MW-1002-S3-22		0	PVC sch 40
		SILTY SAND: Gray (10YR 5/1), SM, fine-med SILTY SAND, few coarse sands, few gravels, wet. High silt content/fine sand from 43.0-43.5 ft. Med-coarse sands from 45.0-49.0 ft.	MW-1002-S3-23		0	
45			MW-1002-S3-24		0	
			MW-1002-S3-25	Neg	0	
50		CLAYEY SILT: Grayish brown (10YR 5/2), ML-CL, dense, firm, sl. moist, few coarse sands, few gravels. EOB @55.0 ft.	MW-1002-S3-26		0	
			MW-1002-S3-27		0	
55			MW-1002-S3-28		0	

WELL CONSTRUCTION LOG

WELL NO.: **MW-1002-S3I4**

TOTAL DEPTH: **95.00**

PROJECT INFORMATION

PROJECT: **GM/ENCORE (Allison Transmission)**

SITE LOCATION: **Speedway, IN**

LOGGED BY: **Tim Porter/Sarah Fisher**

DATE STARTED: **4/19/2010**

DATE COMPLETED: **4/20/2010**

DRILLING INFORMATION

DRILLING CO.: **WDC**

DRILLER: **Tom Minor**

DRILLING METHOD: **HA/Sonic**

COORDINATES:

Northing:

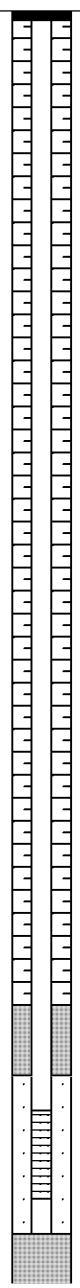
Easting:

TOC Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION
0		ASPHALT: ASPHALT/crushed rock base
5		SANDY CLAY: SANDY CLAY; dark brown, moist cohesive.
		SAND: SAND with cobbles (1.5 - 2 in. in diameter), medium brown, dry, loose, increasing fines at 10'.
10		TILL: Clay TILL ,brown, extremely firm, gravels within till, dry.
15		SAND: SAND, loose, small to medium grain, gray, dry.
20		TILL: Sandy clay TILL, gray, dry, extra firm, gravels within till, gray.
25		FINE SAND: Very FINE SAND, loose, moist, gray.
		SAND: Med-coarse SAND, moist, wet, gravels, gray.
30		
35		CLAY: Gray CLAY with sands, very firm, moist, cohesive, till.
40		
45		SAND: Gray, fine-med. SANDS, wet, loose. 46.5-47 ft.: med.-coarse gravels, then back into fine.
50		CLAY: Gray CLAY w/sands and gravel-till, extremely firm. 48-50 ft.: fine sands and more plastic, clay somewhat moist. 50-55 ft.: dry, friable. 59-60 ft.: sl. moist, irregular inclusions of silt mixed w.matrix. 60-65 ft.: sl. moist, sl. softer than above.
55		
60		
65		SAND: Gray (10YR 5/1), fine-med. SAND, wet.
70		TILL: Gray (10YR 5/1), ML-CL TILL, sl. moist, few coarse sands, trace gravels, firm, becoming softer with depth. 70-70.5 ft.: small inclusion of sandy clay, moist (not likely to produce any water).

SAMPLE ID	SUDAN IV	PID (ppm)
MW-1002-S4-01		0
MW-1002-S4-02		0
MW-1002-S4-03		0.1
MW-1002-S4-04		0.4
MW-1002-S4-05		0.7
MW-1002-S4-06		0.7
MW-1002-S4-07		0.7
MW-1002-S4-08		0.7
MW-1002-S4-09		0.1
MW-1002-S4-10		0.3
MW-1002-S4-11		0.5
MW-1002-S4-12		0.6
MW-1002-S4-13		1
MW-1002-S4-14		0.3
MW-1002-S4-15		0.3
MW-1002-S4-16		0.3
MW-1002-S4-17		0.3
MW-1002-S4-18	Neg	0
MW-1002-S4-19		0
MW-1002-S4-20		0
MW-1002-S4-21		0
MW-1002-S4-22		0
MW-1002-S4-23		0
MW-1002-S4-24		0
MW-1002-S4-25	Neg	0
MW-1002-S4-26		0
MW-1002-S4-27		0
MW-1002-S4-28		0
MW-1002-S4-29		0
MW-1002-S4-30		0
MW-1002-S4-31		0
MW-1002-S4-32		0
MW-1002-S4-33		0
MW-1002-S4-34	Neg	0.1
MW-1002-S4-35		0
MW-1002-S4-36		0
MW-1002-S4-37		0

WELL CONSTRUCTION DETAILS



Flush Mount
PVC sch 40
bent-cement grout
bentonite-chips
sand pack
PVC sch 40
bentonite-chips

WELL CONSTRUCTION LOG

WELL NO.: **MW-1002-S4**

TOTAL DEPTH: **95.00**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**GM/ENCORE (Allison Transmission)**	DRILLING CO.:	**WDC**
SITE LOCATION:	**Speedway, IN**	DRILLER:	**Tom Minor**
LOGGED BY:	**Tim Porter/Sarah Fisher**	DRILLING METHOD:	**HA/Sonic**
DATE STARTED:	**4/19/2010**	COORDINATES:	
DATE COMPLETED:	**4/20/2010**	**Northing:**	
		Easting:	
		TOC Elevation:	

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	SUDAN IV	PID (ppm)	WELL CONSTRUCTION DETAILS
75			MW-1002-S4-38		0	
			MW-1002-S4-39		0	
80			MW-1002-S4-40		0	
			MW-1002-S4-41		0	
			MW-1002-S4-42		0	
85			MW-1002-S4-43		0	
		TILL: (cont.) 85-88 ft.: intermittent inclusions of wet sandy clay, loose, mixed with matrix (in pockets). 89-93 ft.: small intermittent pockets of moist sandy clay mixed with matrix. Black organic streaking with decaying wood fibers.	MW-1002-S4-44		0	
			MW-1002-S4-45		0	
90			MW-1002-S4-46		0	
			MW-1002-S4-47		0.1	
95		SAND: Light yellowish brown (2.5YR 6/3), fine-med. SAND, tightly packed, somewhat friable, moist, laminated (faintly). 93.0-93.05 ft.: slight increase in grain size (med-coarse sand), sl. increase in moisture. EOB @95.0 ft.	MW-1002-S4-48		0.5	

WELL CONSTRUCTION LOG

WELL NO.: **MW-1003-S3**

TOTAL DEPTH: **55.00**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**GM/ENCORE (Allison Transmission)**	DRILLING CO.:	**WDC**
SITE LOCATION:	**Speedway, IN**	DRILLER:	**Tom Minor**
LOGGED BY:	**Tim Porter**	DRILLING METHOD:	**Sonic**
DATE STARTED:	**4/8/2010**	COORDINATES:	
DATE COMPLETED:	**4/14/2010**	**Northing:**	
		Easting:	
		TOC Elevation:	

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	SUDAN IV	PID (ppm)	WELL CONSTRUCTION DETAILS
0		CLAYEY SILT: Very dark grayish brown (10YR 3/2), ML, CLAYEY SILT with few sands, sl. moist, many roots, organic matter.	MW-1003-S3-01		0	Flush Mount PVC sch 40
			MW-1003-S3-02		0	bent-cement grout
5		SANDY CLAY: Dark yellowish brown (10YR 4/4), SC, SANDY CLAY with silt, sl. moist, sl. plastic.	MW-1003-S3-03		0.3	
			MW-1003-S3-04		0	
		SAND: Dark yellowish brown (10YR 4/4), SM, silty clayey SAND, sl. moist, loose. 5.5 ft. - yellowish brown ((10YR 5/4), SM, med-coarse sand, few-common gravels, trace cobbles, sl. moist-moist, loose.	MW-1003-S3-05		0	
10			MW-1003-S3-06		0	
			MW-1003-S3-07		0	
15		SAND: (cont.) Increase in moisture (very moist-wet) from 6.0-7.0 ft. and 11.0-12.5 ft. 15.0-20.0 ft: wet, loose, SM-SP, med-coarse sands and gravels, few cobbles. 20.0-22.0 ft.: dry-sl. moist.	MW-1003-S3-08		0	
			MW-1003-S3-09		0	
			MW-1003-S3-10		0	
20		SILT: Yellowish brown (10YR 5/4), SM-ML, fine-sandy clayey SILT, wet, loose, few coarse sands, few gravels, soft. 24.2-24.5 ft.: increase in coarse sand and gravel content, stratified, sl. moist.	MW-1003-S3-11		0	
			MW-1003-S3-12		0	
25		SAND: Brown (10YR 5/3), SM, fine-med SAND, few coarse sands, few gravels, wet, loose. 25.0-30.5 ft.: grain size increasing (SM-SP), wet, med-coarse sands and gravels. 29-30.5 ft.: color change to yellowish brown (10YR 5/6), wet, loose, many gravels, few cobbles	MW-1003-S3-13		0	
			MW-1003-S3-14		0	
			MW-1003-S3-15		0	
30			MW-1003-S3-16		0	
		CLAYEY SILT: Yellowish brown (10YR 5/4), ML-CL, dense, sl. moist, few coarse sands, few gravels. 31.0-33.0 ft.: color change to gray (10Yr 5/1).	MW-1003-S3-17		0	
35			MW-1003-S3-18		0	
		SAND: Yellowish brown (10YR 5/4), SM, fine-med SAND, few coarse sands, wet, loose. 37.0-38.0 ft.: grain size increase (med-coarse sands, common gravels), wet.	MW-1003-S3-19		0	
			MW-1003-S3-20		0	
40			MW-1003-S3-21		0	
		CLAYEY SILT: Gray (10YR 5/1), ML-CL, dense, sl. moist, sl. soft, few coarse sands, few gravels, becoming more firm (less soft) with depth and less moist (dry).	MW-1003-S3-22		0	
45			MW-1003-S3-23		0	bentonite-chips
			MW-1003-S3-24		0	
		SAND: Gray (10YR 5/1), SM, very fine-med SAND, few coarse sands, wet, loose. 47.0-48.0 ft.: grayish brown (10YR 5/2). 48.0-53.0 ft.: brown (10YR 5/3), med-coarse sands, common gravels.	MW-1003-S3-25		0	sand pack
50			MW-1003-S3-26		0	PVC sch 40
			MW-1003-S3-27		0	
		CLAYEY SILT: Gray (10YR 5/1), ML-CL, dense, sl. moist, sl. soft, few coarse sands, few gravels. EOB @55.0 ft.	MW-1003-S3-28		0	
55						

ARCADIS

Appendix C

Laboratory Analytical Reports

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

May 06, 2010

Ms. Susan Scrocchi
Conestoga-Rovers and Associates
2055 Niagara Falls Blvd
Suite 2
Niagara Falls, NY 14304

RE: Project: Allison Transmission
Pace Project No.: 5037021

Dear Ms. Scrocchi:
Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna S. Spyker

Donna Spyker

donna.spyker@pacelabs.com
Project Manager

7726 Moller Road Indianapolis, IN 46268
Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: Allison Transmission
Pace Project No.: 5037021

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5037021001	**TB-1(042710)-TP**	Water	04/27/10 08:00	04/28/10 16:54
5037021002	**MW-1002-S2B(042710)**	Water	04/27/10 10:00	04/28/10 16:54
5037021003	**EB-1(042710)-TP**	Water	04/27/10 10:10	04/28/10 16:54
5037021004	**MW-1002-S3(042710)**	Water	04/27/10 11:55	04/28/10 16:54
5037021005	**MW-1002-S4(042710)**	Water	04/27/10 13:00	04/28/10 16:54
5037021006	**MW-1003-S3(042710)**	Water	04/27/10 14:20	04/28/10 16:54
5037021007	**MW-1001-S3(042710)**	Water	04/27/10 16:10	04/28/10 16:54
5037021008	**TP-1(042710)-TP**	Water	04/27/10 08:00	04/28/10 16:54
5037021009	**MW-1001-S2B(042810)**	Water	04/28/10 09:35	04/28/10 16:54

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SAMPLE ANALYTE COUNT

Project: Allison Transmission
Pace Project No.: 5037021

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5037021001	**TB-1(042710)-TP**	EPA 8260	ALA	51
5037021002	**MW-1002-S2B(042710)**	EPA 8260	ALA	51
5037021003	**EB-1(042710)-TP**	EPA 8260	ALA	51
5037021004	**MW-1002-S3(042710)**	EPA 8260	ALA	51
5037021005	**MW-1002-S4(042710)**	EPA 8260	ALA	51
5037021006	**MW-1003-S3(042710)**	EPA 8260	ALA	51
5037021007	**MW-1001-S3(042710)**	EPA 8260	ALA	51
5037021008	**TP-1(042710)-TP**	EPA 8260	ALA	51
5037021009	**MW-1001-S2B(042810)**	EPA 8260	ALA	51

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: TB-1(042710)-TP **Lab ID: 5037021001** Collected: 04/27/10 08:00 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/05/10 05:42	67-64-1	
Benzene	ND	ug/L	5.0	1		05/05/10 05:42	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/05/10 05:42	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/05/10 05:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/05/10 05:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/05/10 05:42	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/05/10 05:42	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/10 05:42	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/05/10 05:42	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/05/10 05:42	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/05/10 05:42	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/05/10 05:42	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/05/10 05:42	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/05/10 05:42	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/05/10 05:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/05/10 05:42	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 05:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 05:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 05:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/05/10 05:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/05/10 05:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/05/10 05:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/10 05:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 05:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 05:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/05/10 05:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 05:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 05:42	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/05/10 05:42	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/05/10 05:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/05/10 05:42	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/05/10 05:42	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		05/05/10 05:42	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		05/05/10 05:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/05/10 05:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/05/10 05:42	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/05/10 05:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/05/10 05:42	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/10 05:42	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/10 05:42	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/05/10 05:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/10 05:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/05/10 05:42	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/05/10 05:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/05/10 05:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/05/10 05:42	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		05/05/10 05:42	75-01-4	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: TB-1(042710)-TP **Lab ID: 5037021001** Collected: 04/27/10 08:00 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/05/10 05:42	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		05/05/10 05:42	1868-53-7	
4-Bromofluorobenzene (S)	100	%	70-126	1		05/05/10 05:42	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		05/05/10 05:42	2037-26-5	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: MW-1002-S2B(042710) **Lab ID: 5037021002** Collected: 04/27/10 10:00 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/05/10 06:14	67-64-1	
Benzene	ND	ug/L	5.0	1		05/05/10 06:14	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/05/10 06:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/05/10 06:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/05/10 06:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/05/10 06:14	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/05/10 06:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/10 06:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/05/10 06:14	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/05/10 06:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/05/10 06:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/05/10 06:14	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/05/10 06:14	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/05/10 06:14	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/05/10 06:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/05/10 06:14	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 06:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 06:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 06:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/05/10 06:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/05/10 06:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/05/10 06:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/10 06:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 06:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 06:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/05/10 06:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 06:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 06:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/05/10 06:14	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/05/10 06:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/05/10 06:14	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/05/10 06:14	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		05/05/10 06:14	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		05/05/10 06:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/05/10 06:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/05/10 06:14	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/05/10 06:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/05/10 06:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/10 06:14	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/10 06:14	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/05/10 06:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/10 06:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/05/10 06:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/05/10 06:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/05/10 06:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/05/10 06:14	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		05/05/10 06:14	75-01-4	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: MW-1002-S2B(042710) **Lab ID: 5037021002** Collected: 04/27/10 10:00 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/05/10 06:14	1330-20-7	
Dibromofluoromethane (S)	105	%	80-123	1		05/05/10 06:14	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		05/05/10 06:14	460-00-4	
Toluene-d8 (S)	98	%	80-116	1		05/05/10 06:14	2037-26-5	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: EB-1(042710)-TP **Lab ID: 5037021003** Collected: 04/27/10 10:10 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/05/10 06:46	67-64-1	
Benzene	ND	ug/L	5.0	1		05/05/10 06:46	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/05/10 06:46	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/05/10 06:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/05/10 06:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/05/10 06:46	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/05/10 06:46	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/10 06:46	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/05/10 06:46	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/05/10 06:46	75-00-3	
Chloroform	**8.5**	ug/L	5.0	1		05/05/10 06:46	67-66-3	2d
Chloromethane	ND	ug/L	5.0	1		05/05/10 06:46	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/05/10 06:46	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/05/10 06:46	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/05/10 06:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/05/10 06:46	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 06:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 06:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 06:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/05/10 06:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/05/10 06:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/05/10 06:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/10 06:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 06:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 06:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/05/10 06:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 06:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 06:46	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/05/10 06:46	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/05/10 06:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/05/10 06:46	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/05/10 06:46	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		05/05/10 06:46	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		05/05/10 06:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/05/10 06:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/05/10 06:46	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/05/10 06:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/05/10 06:46	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/10 06:46	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/10 06:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/05/10 06:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/10 06:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/05/10 06:46	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/05/10 06:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/05/10 06:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/05/10 06:46	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		05/05/10 06:46	75-01-4	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: EB-1(042710)-TP **Lab ID: 5037021003** Collected: 04/27/10 10:10 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/05/10 06:46	1330-20-7	
Dibromofluoromethane (S)	106	%	80-123	1		05/05/10 06:46	1868-53-7	
4-Bromofluorobenzene (S)	101	%	70-126	1		05/05/10 06:46	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		05/05/10 06:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: MW-1002-S3(042710) **Lab ID: 5037021004** Collected: 04/27/10 11:55 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/05/10 07:20	67-64-1	
Benzene	ND	ug/L	5.0	1		05/05/10 07:20	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/05/10 07:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/05/10 07:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/05/10 07:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/05/10 07:20	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/05/10 07:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/10 07:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/05/10 07:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/05/10 07:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/05/10 07:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/05/10 07:20	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/05/10 07:20	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/05/10 07:20	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/05/10 07:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/05/10 07:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 07:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 07:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 07:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/05/10 07:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/05/10 07:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/05/10 07:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/10 07:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 07:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 07:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/05/10 07:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 07:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 07:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/05/10 07:20	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/05/10 07:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/05/10 07:20	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/05/10 07:20	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		05/05/10 07:20	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		05/05/10 07:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/05/10 07:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/05/10 07:20	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/05/10 07:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/05/10 07:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/10 07:20	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/10 07:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/05/10 07:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/10 07:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/05/10 07:20	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/05/10 07:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/05/10 07:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/05/10 07:20	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		05/05/10 07:20	75-01-4	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: MW-1002-S3(042710) **Lab ID: 5037021004** Collected: 04/27/10 11:55 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/05/10 07:20	1330-20-7	
Dibromofluoromethane (S)	105	%	80-123	1		05/05/10 07:20	1868-53-7	
4-Bromofluorobenzene (S)	101	%	70-126	1		05/05/10 07:20	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		05/05/10 07:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: MW-1002-S4(042710) **Lab ID: 5037021005** Collected: 04/27/10 13:00 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/05/10 07:52	67-64-1	
Benzene	ND	ug/L	5.0	1		05/05/10 07:52	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/05/10 07:52	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/05/10 07:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/05/10 07:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/05/10 07:52	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/05/10 07:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/10 07:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/05/10 07:52	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/05/10 07:52	75-00-3	
Chloroform	**5.5**	ug/L	5.0	1		05/05/10 07:52	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/05/10 07:52	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/05/10 07:52	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/05/10 07:52	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/05/10 07:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/05/10 07:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 07:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 07:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 07:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/05/10 07:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/05/10 07:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/05/10 07:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/10 07:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 07:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 07:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/05/10 07:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 07:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 07:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/05/10 07:52	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/05/10 07:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/05/10 07:52	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/05/10 07:52	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		05/05/10 07:52	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		05/05/10 07:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/05/10 07:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/05/10 07:52	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/05/10 07:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/05/10 07:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/10 07:52	127-18-4	
Toluene	**24.2**	ug/L	5.0	1		05/05/10 07:52	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/05/10 07:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/10 07:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/05/10 07:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/05/10 07:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/05/10 07:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/05/10 07:52	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		05/05/10 07:52	75-01-4	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: MW-1002-S4(042710) **Lab ID: 5037021005** Collected: 04/27/10 13:00 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/05/10 07:52	1330-20-7	
Dibromofluoromethane (S)	106	%	80-123	1		05/05/10 07:52	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		05/05/10 07:52	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		05/05/10 07:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: MW-1003-S3(042710) **Lab ID: 5037021006** Collected: 04/27/10 14:20 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/05/10 08:24	67-64-1	
Benzene	ND	ug/L	5.0	1		05/05/10 08:24	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/05/10 08:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/05/10 08:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/05/10 08:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/05/10 08:24	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/05/10 08:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/10 08:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/05/10 08:24	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/05/10 08:24	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/05/10 08:24	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/05/10 08:24	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/05/10 08:24	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/05/10 08:24	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/05/10 08:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/05/10 08:24	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 08:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 08:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 08:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/05/10 08:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/05/10 08:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/05/10 08:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/10 08:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 08:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 08:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/05/10 08:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 08:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 08:24	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/05/10 08:24	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/05/10 08:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/05/10 08:24	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/05/10 08:24	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		05/05/10 08:24	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		05/05/10 08:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/05/10 08:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/05/10 08:24	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/05/10 08:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/05/10 08:24	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/10 08:24	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/10 08:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/05/10 08:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/10 08:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/05/10 08:24	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/05/10 08:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/05/10 08:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/05/10 08:24	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		05/05/10 08:24	75-01-4	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: MW-1003-S3(042710) **Lab ID: 5037021006** Collected: 04/27/10 14:20 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/05/10 08:24	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		05/05/10 08:24	1868-53-7	
4-Bromofluorobenzene (S)	96	%	70-126	1		05/05/10 08:24	460-00-4	
Toluene-d8 (S)	96	%	80-116	1		05/05/10 08:24	2037-26-5	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: MW-1001-S3(042710) **Lab ID: 5037021007** Collected: 04/27/10 16:10 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/05/10 08:58	67-64-1	
Benzene	ND	ug/L	5.0	1		05/05/10 08:58	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/05/10 08:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/05/10 08:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/05/10 08:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/05/10 08:58	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/05/10 08:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/10 08:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/05/10 08:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/05/10 08:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/05/10 08:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/05/10 08:58	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/05/10 08:58	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/05/10 08:58	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/05/10 08:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/05/10 08:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 08:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 08:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 08:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/05/10 08:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/05/10 08:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/05/10 08:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/10 08:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 08:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 08:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/05/10 08:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 08:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 08:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/05/10 08:58	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/05/10 08:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/05/10 08:58	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/05/10 08:58	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		05/05/10 08:58	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		05/05/10 08:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/05/10 08:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/05/10 08:58	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/05/10 08:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/05/10 08:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/10 08:58	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/10 08:58	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/05/10 08:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/10 08:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/05/10 08:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/05/10 08:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/05/10 08:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/05/10 08:58	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		05/05/10 08:58	75-01-4	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: MW-1001-S3(042710) **Lab ID: 5037021007** Collected: 04/27/10 16:10 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/05/10 08:58	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		05/05/10 08:58	1868-53-7	
4-Bromofluorobenzene (S)	101	%	70-126	1		05/05/10 08:58	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		05/05/10 08:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: TP-1(042710)-TP **Lab ID: 5037021008** Collected: 04/27/10 08:00 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/05/10 10:35	67-64-1	
Benzene	ND	ug/L	5.0	1		05/05/10 10:35	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/05/10 10:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/05/10 10:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/05/10 10:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/05/10 10:35	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/05/10 10:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/10 10:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/05/10 10:35	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/05/10 10:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/05/10 10:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/05/10 10:35	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/05/10 10:35	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/05/10 10:35	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/05/10 10:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/05/10 10:35	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 10:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 10:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 10:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/05/10 10:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/05/10 10:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/05/10 10:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/10 10:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 10:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 10:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/05/10 10:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 10:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 10:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/05/10 10:35	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/05/10 10:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/05/10 10:35	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/05/10 10:35	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		05/05/10 10:35	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		05/05/10 10:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/05/10 10:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/05/10 10:35	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/05/10 10:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/05/10 10:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/10 10:35	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/10 10:35	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/05/10 10:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/10 10:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/05/10 10:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/05/10 10:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/05/10 10:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/05/10 10:35	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		05/05/10 10:35	75-01-4	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: TP-1(042710)-TP **Lab ID: 5037021008** Collected: 04/27/10 08:00 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/05/10 10:35	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		05/05/10 10:35	1868-53-7	
4-Bromofluorobenzene (S)	103	%	70-126	1		05/05/10 10:35	460-00-4	
Toluene-d8 (S)	97	%	80-116	1		05/05/10 10:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: MW-1001-S2B(042810) **Lab ID: 5037021009** Collected: 04/28/10 09:35 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/05/10 11:09	67-64-1	
Benzene	ND	ug/L	5.0	1		05/05/10 11:09	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/05/10 11:09	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/05/10 11:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/05/10 11:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/05/10 11:09	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/05/10 11:09	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/10 11:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/05/10 11:09	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/05/10 11:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/05/10 11:09	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/05/10 11:09	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/05/10 11:09	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/05/10 11:09	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/05/10 11:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/05/10 11:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 11:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 11:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/05/10 11:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/05/10 11:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/05/10 11:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/05/10 11:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/10 11:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 11:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/10 11:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/05/10 11:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 11:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/05/10 11:09	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/05/10 11:09	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/05/10 11:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/05/10 11:09	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/05/10 11:09	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		05/05/10 11:09	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		05/05/10 11:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/05/10 11:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/05/10 11:09	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/05/10 11:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/05/10 11:09	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/10 11:09	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/10 11:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/05/10 11:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/10 11:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/05/10 11:09	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/05/10 11:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/05/10 11:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/05/10 11:09	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		05/05/10 11:09	75-01-4	

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ANALYTICAL RESULTS

Project: Allison Transmission
Pace Project No.: 5037021

Sample: MW-1001-S2B(042810) **Lab ID: 5037021009** Collected: 04/28/10 09:35 Received: 04/28/10 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/05/10 11:09	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		05/05/10 11:09	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		05/05/10 11:09	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		05/05/10 11:09	2037-26-5	

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QUALITY CONTROL DATA

Project: Allison Transmission
Pace Project No.: 5037021

QC Batch: MSV/23706 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5037021001, 5037021002, 5037021003, 5037021004, 5037021005, 5037021006, 5037021007, 5037021008, 5037021009

METHOD BLANK: 428994 Matrix: Water
Associated Lab Samples: 5037021001, 5037021002, 5037021003, 5037021004, 5037021005, 5037021006, 5037021007, 5037021008, 5037021009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/05/10 01:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/05/10 01:16	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/05/10 01:16	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	05/05/10 01:16	
1,1-Dichloroethane	ug/L	ND	5.0	05/05/10 01:16	
1,1-Dichloroethene	ug/L	ND	5.0	05/05/10 01:16	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/05/10 01:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/05/10 01:16	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/05/10 01:16	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/05/10 01:16	
1,2-Dichloroethane	ug/L	ND	5.0	05/05/10 01:16	
1,2-Dichloropropane	ug/L	ND	5.0	05/05/10 01:16	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/05/10 01:16	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/05/10 01:16	
2-Butanone (MEK)	ug/L	ND	25.0	05/05/10 01:16	
2-Hexanone	ug/L	ND	25.0	05/05/10 01:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/05/10 01:16	
Acetone	ug/L	ND	100	05/05/10 01:16	
Benzene	ug/L	ND	5.0	05/05/10 01:16	
Bromodichloromethane	ug/L	ND	5.0	05/05/10 01:16	
Bromoform	ug/L	ND	5.0	05/05/10 01:16	
Bromomethane	ug/L	ND	5.0	05/05/10 01:16	
Carbon disulfide	ug/L	ND	10.0	05/05/10 01:16	
Carbon tetrachloride	ug/L	ND	5.0	05/05/10 01:16	
Chlorobenzene	ug/L	ND	5.0	05/05/10 01:16	
Chloroethane	ug/L	ND	5.0	05/05/10 01:16	
Chloroform	ug/L	ND	5.0	05/05/10 01:16	
Chloromethane	ug/L	ND	5.0	05/05/10 01:16	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/05/10 01:16	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/05/10 01:16	
Cyclohexane	ug/L	ND	100	05/05/10 01:16	
Dibromochloromethane	ug/L	ND	5.0	05/05/10 01:16	
Dichlorodifluoromethane	ug/L	ND	5.0	05/05/10 01:16	
Ethylbenzene	ug/L	ND	5.0	05/05/10 01:16	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/05/10 01:16	
Methyl acetate	ug/L	ND	50.0	05/05/10 01:16	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/05/10 01:16	
Methylcyclohexane	ug/L	ND	50.0	05/05/10 01:16	
Methylene chloride	ug/L	ND	5.0	05/05/10 01:16	
Styrene	ug/L	ND	5.0	05/05/10 01:16	
Tetrachloroethene	ug/L	ND	5.0	05/05/10 01:16	

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QUALITY CONTROL DATA

Project: Allison Transmission
Pace Project No.: 5037021

METHOD BLANK: 428994 Matrix: Water

Associated Lab Samples: 5037021001, 5037021002, 5037021003, 5037021004, 5037021005, 5037021006, 5037021007, 5037021008, 5037021009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	5.0	05/05/10 01:16	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/05/10 01:16	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/05/10 01:16	
Trichloroethene	ug/L	ND	5.0	05/05/10 01:16	
Trichlorofluoromethane	ug/L	ND	5.0	05/05/10 01:16	
Vinyl chloride	ug/L	ND	2.0	05/05/10 01:16	
Xylene (Total)	ug/L	ND	10.0	05/05/10 01:16	
4-Bromofluorobenzene (S)	%	101	70-126	05/05/10 01:16	
Dibromofluoromethane (S)	%	104	80-123	05/05/10 01:16	
Toluene-d8 (S)	%	101	80-116	05/05/10 01:16	

LABORATORY CONTROL SAMPLE: 428995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.4	103	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	43.4	87	69-131	
1,1,2-Trichloroethane	ug/L	50	47.7	95	77-132	
1,1,2-Trichlorotrifluoroethane	ug/L	50	53.7	107	70-130	
1,1-Dichloroethane	ug/L	50	47.1	94	67-133	
1,1-Dichloroethene	ug/L	50	54.9	110	63-128	
1,2,4-Trichlorobenzene	ug/L	50	52.4	105	60-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.4	93	61-125	
1,2-Dibromoethane (EDB)	ug/L	50	48.2	96	75-126	
1,2-Dichlorobenzene	ug/L	50	53.8	108	76-124	
1,2-Dichloroethane	ug/L	50	48.3	97	69-139	
1,2-Dichloropropane	ug/L	50	47.9	96	76-129	
1,3-Dichlorobenzene	ug/L	50	52.0	104	76-125	
1,4-Dichlorobenzene	ug/L	50	53.9	108	75-122	
2-Butanone (MEK)	ug/L	250	235	94	47-189	
2-Hexanone	ug/L	250	233	93	57-167	
4-Methyl-2-pentanone (MIBK)	ug/L	250	225	90	61-135	
Acetone	ug/L	250	241	97	30-170	
Benzene	ug/L	50	46.5	93	78-127	
Bromodichloromethane	ug/L	50	53.3	107	69-133	
Bromoform	ug/L	50	41.8	84	60-127	
Bromomethane	ug/L	50	47.2	94	30-170	
Carbon disulfide	ug/L	100	97.1	97	58-152	
Carbon tetrachloride	ug/L	50	57.3	115	62-143	
Chlorobenzene	ug/L	50	49.9	100	75-123	
Chloroethane	ug/L	50	61.8	124	56-153	
Chloroform	ug/L	50	49.2	98	74-131	
Chloromethane	ug/L	50	54.5	109	35-147	
cis-1,2-Dichloroethene	ug/L	50	50.4	101	74-128	
cis-1,3-Dichloropropene	ug/L	50	48.1	96	58-123	

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QUALITY CONTROL DATA

Project: Allison Transmission
Pace Project No.: 5037021

LABORATORY CONTROL SAMPLE: 428995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyclohexane	ug/L	50	51.2J	102	63-134	
Dibromochloromethane	ug/L	50	47.2	94	66-131	
Dichlorodifluoromethane	ug/L	50	87.1	174	30-170	L3
Ethylbenzene	ug/L	50	46.9	94	81-126	
Isopropylbenzene (Cumene)	ug/L	50	50.1	100	80-130	
Methyl acetate	ug/L	50	83.4	167	30-170	
Methyl-tert-butyl ether	ug/L	100	96.1	96	66-147	
Methylcyclohexane	ug/L	50	ND	94	65-135	
Methylene chloride	ug/L	50	52.0	104	32-164	
Styrene	ug/L	50	51.3	103	74-128	
Tetrachloroethene	ug/L	50	47.1	94	60-119	
Toluene	ug/L	50	44.6	89	75-129	
trans-1,2-Dichloroethene	ug/L	50	61.3	123	71-126	
trans-1,3-Dichloropropene	ug/L	50	38.7	77	54-123	
Trichloroethene	ug/L	50	51.0	102	74-130	
Trichlorofluoromethane	ug/L	50	66.4	133	62-150	
Vinyl chloride	ug/L	50	55.5	111	55-141	
Xylene (Total)	ug/L	150	144	96	76-132	
4-Bromofluorobenzene (S)	%			105	70-126	
Dibromofluoromethane (S)	%			106	80-123	
Toluene-d8 (S)	%			100	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 428996 428997

Parameter	Units	5037021007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	41.6	50.6	83	101	64-143	19	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	32.7	40.4	65	81	64-142	21	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	37.9	43.5	76	87	71-143	14	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	47.7	53.0	95	106	70-130	11	20	
1,1-Dichloroethane	ug/L	ND	50	50	40.1	45.7	80	91	68-139	13	20	
1,1-Dichloroethene	ug/L	ND	50	50	49.8	57.9	100	116	55-140	15	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	36.6	44.7	73	89	28-140	20	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	33.2	40.0	66	80	39-140	18	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	37.6	44.7	75	89	67-134	17	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	38.9	46.5	78	93	48-137	18	20	
1,2-Dichloroethane	ug/L	ND	50	50	39.8	47.4	80	95	63-148	17	20	
1,2-Dichloropropane	ug/L	ND	50	50	38.7	46.0	77	92	70-136	17	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	39.3	47.7	79	95	40-143	19	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	39.7	47.2	79	94	38-142	17	20	
2-Butanone (MEK)	ug/L	ND	250	250	177	214	71	86	62-132	19	20	
2-Hexanone	ug/L	ND	250	250	172	209	69	83	61-141	19	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	171	205	68	82	57-135	18	20	
Acetone	ug/L	ND	250	250	186	221	74	88	30-170	17	20	
Benzene	ug/L	ND	50	50	39.6	46.0	79	92	63-141	15	20	
Bromodichloromethane	ug/L	ND	50	50	42.3	51.2	85	102	63-135	19	20	
Bromoform	ug/L	ND	50	50	31.5	40.1	63	80	58-124	24	20	

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Allison Transmission
Pace Project No.: 5037021

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 428996 428997

Parameter	Units	5037021007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromomethane	ug/L	ND	50	50	37.1	45.7	74	91	30-170	21	20	
Carbon disulfide	ug/L	ND	100	100	96.5	108	96	108	46-162	11	20	
Carbon tetrachloride	ug/L	ND	50	50	46.6	56.5	93	113	54-145	19	20	
Chlorobenzene	ug/L	ND	50	50	41.6	48.0	83	96	56-133	14	20	
Chloroethane	ug/L	ND	50	50	55.7	63.0	111	126	54-157	12	20	
Chloroform	ug/L	ND	50	50	42.5	48.8	81	94	67-134	14	20	
Chloromethane	ug/L	ND	50	50	51.9	55.9	104	112	36-137	7	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	43.2	49.3	86	99	65-132	13	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	35.3	44.3	71	89	46-121	23	20	
Cyclohexane	ug/L	ND	50	50	ND	51.5J	89	103	39-167		20	
Dibromochloromethane	ug/L	ND	50	50	38.3	44.8	77	90	64-124	16	20	
Dichlorodifluoromethane	ug/L	ND	50	50	88.1	99.1	176	198	30-163	12	20	M0
Ethylbenzene	ug/L	ND	50	50	39.1	46.2	78	92	44-151	17	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	39.4	45.8	79	92	40-148	15	20	
Methyl acetate	ug/L	ND	50	50	56.1	60.8	112	122	40-182	8	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	72.9	89.6	73	90	52-156	21	20	
Methylcyclohexane	ug/L	ND	50	50	ND	ND	83	98	44-158		20	
Methylene chloride	ug/L	ND	50	50	42.4	47.8	85	96	46-154	12	20	
Styrene	ug/L	ND	50	50	41.8	47.2	84	94	38-141	12	20	
Tetrachloroethene	ug/L	ND	50	50	38.1	45.1	76	90	25-146	17	20	
Toluene	ug/L	ND	50	50	38.3	45.6	77	91	59-142	17	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	54.8	62.2	110	124	60-137	13	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	29.1	34.5	58	69	43-117	17	20	
Trichloroethene	ug/L	ND	50	50	43.2	48.5	86	97	61-137	12	20	
Trichlorofluoromethane	ug/L	ND	50	50	61.0	70.1	122	140	53-162	14	20	
Vinyl chloride	ug/L	ND	50	50	54.0	60.2	108	120	51-144	11	20	
Xylene (Total)	ug/L	ND	150	150	117	140	78	93	44-152	18	20	
4-Bromofluorobenzene (S)	%						105	101	70-126		20	
Dibromofluoromethane (S)	%						105	105	80-123		20	1d
Toluene-d8 (S)	%						102	102	80-116		20	

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: Allison Transmission
Pace Project No.: 5037021

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

1d	Several compounds are outside of the acceptance limits for RPD value. Refer to batch QC for system control. aa 5/5/10
2d	The presence of this compound indicates the possible use of commercially purchased deionized water. aa 5/5/10
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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GM REALM ENCORE

✓ TMS

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 1 OF 1

ID # № 08928

SSOW Ref. Code: E027026

Required Client Information:

Company: ARCADIS	Report To: Sarah Fisher
Address: 251 E Ohio St. Ste. 800	Copy To:
Indianapolis, IN 46204	Invoice To:
	P.O.:
Phone: 317 236 5500	Project Name: GM Allison Trans.
Fax: 317 231 6514	Project Number: IN000473.0020
E-mail: Sarah.Fisher@arcadis-us.com	

Laboratory: PACE Analytical	
Laboratory Location: Indianapolis, IN	
Laboratory Contact:	
Requested Due Date:	TAT:
QA/QC Requirements: Level IV	

5037021

Valid Matrix Codes: WG Groundwater; WB Borehole Water; WS Surface Water; SO Soil; SE Sediment; See Back for Additional Codes

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	VOCs 8260	Remarks/Lab ID
1.	TB-1 (042710) -TP	WGQ	—	—	3		X					X	Lab Supplied 001
2.	MW-1002-S2B (042710)	WG	4/27/10	1000	3		X					X	002
3.	EB-1 (042710) -TP	WGQ	4/27/10	1010	3		X					X	Equipment Blank 003
4.	MW-1002-S3 (042710)	WG	4/27/10	1155	3		X					X	004
5.	MW-1002-S4 (042710)	WG	4/27/10	1300	3		X					X	005
6.	MW-1003-S3 (042710)	WG	4/27/10	1420	3		X					X	006
7.	MW-1001-S3 (042710)	WG	4/27/10	1610	9		X					X	MS/MSD 007
8.	FD-1 (042710) -TP	WGQ	—	—	3		X					X	Field Duplicate 008
9.	MW-1001-S2B (042810)	WG	4/28/10	0935	3		X					X	009
10.													
11.													
12.													
13.													
14.													
15.													
	TOTAL NUMBER OF CONTAINERS												

Analysis and Method

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
		TMS / ARCADIS	4/28/10	1125	[illegible]	4/28/10	1125
AIRBILL NO.							

Sample Condition

Temp in °C	1.3
Received on Ice	(Y) / N
Sealed Cooler	Y / (N)
Samples Intact	(Y) N

Additional Comments:

Sampler Name: Tim Porter

Sampler Signature: [signature] Date: 4/28/10

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV. 0 (6/04)

AMMH002823

Sample Condition Upon Receipt

Pace Analytical

Client Name: APCADIS

Project # 6037021

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other BAGS OF ICE

Thermometer Used 123456 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.3°C **Ice Visible in Sample Containers:** ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 4/28/10

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	5.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	8.
All containers needing preservation have been pH checked? exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No ☑N/A	9.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	10.
Trip Blank Present:	☑Yes ☐No ☐N/A	11.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☐Yes ☐No ☐N/A	12.
Sufficient Volume:	☐Yes ☐No ☐N/A	13.
Correct Containers Used:	☐Yes ☐No ☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 4/28/10

Form F-IN-Q290-rev.0, 02Mar2010

Sample Container Count

CLIENT: APEADLS

COC PAGE ___ of ___

COC ID# D8928

Project # 5037024

Sample Line Item	DG9H	AG1U	WGFU	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	3															
2																
3																
4																
5																
6	9															
7																
8	3															
9	3															
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

AMMH002825