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Mr. David P. Turner, RPM (3HS22)
Western PA Section
United States Environmental Protection Agency, Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

October 17, 2011

Reference: LORD-Shope RA Monthly Progress Report

Dear Mr. Turner:

LORD is hereby submitting two copies of the monthly progress report for the period of September 1, 2011 through September 30, 2011.

The following work was conducted during this period:

REMEDIAL ACTION

NPDES Report:

The September report will be submitted under a separate cover.

Thermal Oxidizer:

The thermal oxidizer which was shut down as scheduled on July 27, 2011, was started up again on August 31, 2011 for planned September-October operation. ISVS influent was 155.5 ppm with 100% removal.

Groundwater Treatment:

The groundwater treatment system was operating normally during this interim.

The groundwater TOC effluent concentration was 2.0 mg/l.

Sincerely,

LORD Corporation

George M. Kickel
Director, Environment, Safety, Health, and Regulatory Compliance

GMK11021/cmf

cc: (b) (4) [redacted] ARCADIS, Inc.
John Morettini, PADEP

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 2

LORD Shope

Lot #: H1I120425

(b) (4) [redacted]

ARCADIS U.S., Inc.
284 Cramer Creek Court
Dublin, OH 43017

TESTAMERICA LABORATORIES, INC.

(b) (4) [redacted]

(b) (4) [redacted]

Project Manager

September 22, 2011

5815 Middlebrook Pike Knoxville, TN 37921 **tel** 865.291.3000 **fax** 865.584.4315 **www.testamericainc.com**

ANALYTICAL METHODS SUMMARY

H1I120425

PARAMETER	ANALYTICAL METHOD
Method for Analysis of Reformed Gas by GC	ASTM D 1946/E 260
Volatile Organics by TO15	EPA-2 TO-15

References:

ASTM Annual Book Of ASTM Standards.

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H1I120425

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MMC8D	001	TOI/090811	09/08/11	13:55
MMC8K	002	TOE/090811	09/08/11	14:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H1I120425

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

The chain of custody documentation did not list a collection time for the samples.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Volatiles

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria. For this method, the continuing calibration verification standard and the LCS are the same sample. While the result for carbon tetrachloride is flagged as being outside limits for batch 1258066, the results met the acceptance criteria which allows for 2 analytes to be within marginal exceedence limits.

CERTIFICATION SUMMARY

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Knoxville	ACLASS	DoD ELAP		ADE-1434
TestAmerica Knoxville	Arkansas	State Program	6	88-0688
TestAmerica Knoxville	California	State Program	9	2423
TestAmerica Knoxville	Colorado	State Program	8	N/A
TestAmerica Knoxville	Connecticut	State Program	1	PH-0223
TestAmerica Knoxville	Florida	NELAC	4	E87177
TestAmerica Knoxville	Georgia	State Program	4	906
TestAmerica Knoxville	Hawaii	State Program	9	N/A
TestAmerica Knoxville	Indiana	State Program	5	C-TN-02
TestAmerica Knoxville	Iowa	State Program	7	375
TestAmerica Knoxville	Kansas	NELAC	7	E-10349
TestAmerica Knoxville	Kentucky	State Program	4	90101
TestAmerica Knoxville	Louisiana	NELAC	6	LA110001
TestAmerica Knoxville	Louisiana	NELAC	6	83979
TestAmerica Knoxville	Maryland	State Program	3	277
TestAmerica Knoxville	Michigan	State Program	5	9933
TestAmerica Knoxville	Minnesota	NELAC	5	047-999-429
TestAmerica Knoxville	Nevada	State Program	9	TN00009
TestAmerica Knoxville	New Jersey	NELAC	2	TN001
TestAmerica Knoxville	New York	NELAC	2	10781
TestAmerica Knoxville	North Carolina	North Carolina DENR	4	64
TestAmerica Knoxville	North Carolina	North Carolina PHL	4	21705
TestAmerica Knoxville	Ohio	OVAP	5	CL0059
TestAmerica Knoxville	Oklahoma	State Program	6	9415
TestAmerica Knoxville	Pennsylvania	NELAC	3	68-00576
TestAmerica Knoxville	South Carolina	State Program	4	84001
TestAmerica Knoxville	Tennessee	State Program	4	2014
TestAmerica Knoxville	Texas	NELAC	6	T104704380-TX
TestAmerica Knoxville	USDA	USDA		P330-11-00035
TestAmerica Knoxville	Utah	NELAC	8	QUAN3
TestAmerica Knoxville	Virginia	State Program	3	165
TestAmerica Knoxville	Washington	State Program	10	C593
TestAmerica Knoxville	West Virginia	West Virginia DEP	3	345
TestAmerica Knoxville	West Virginia	West Virginia DHHR (DW)	3	9955C
TestAmerica Knoxville	Wisconsin	State Program	5	998044300

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Sample Data Summary

ARCADIS U.S., Inc.

Client Sample ID: TOI/090811

GC/MS Volatiles

Lot-Sample # H1I120425 - 001 **Work Order #** MMC8D1AA **Matrix.....:** AIR

Date Sampled...: 09/08/2011 **Date Received..:** 09/12/2011
Prep Date.....: 09/14/2011 **Analysis Date...** 09/14/2011
Prep Batch #.....: 1258066
Dilution Factor.: 2491.22 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	500	ND	2300
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	500	ND	3500
Acetone	ND	12000	ND	30000
1,4-Dioxane	ND	1200	ND	4500
Ethyl acetate	ND	5000	ND	18000
Ethylbenzene	ND	500	ND	2200
Trichlorofluoromethane	ND	500	ND	2800
n-Heptane	ND	1200	ND	5100
Hexachlorobutadiene	ND	2500	ND	27000
n-Hexane	**400 J**	**1200**	**1400 J**	**4400**
2-Hexanone	ND	1200	ND	5100
2,2,4-Trimethylpentane	ND	1200	ND	5800
Cumene	ND	1000	ND	4900
tert-Butyl alcohol	ND	5000	ND	15000
Methylene chloride	**430 J B**	**1200**	**1500 J B**	**4300**
Methyl methacrylate	ND	1200	ND	5100
Benzene	ND	500	ND	1600
Acetonitrile	ND	2500	ND	4200
n-Octane	ND	1000	ND	4700
Pentane	**200 J**	**2500**	**590 J**	**7400**
Styrene	ND	500	ND	2100
1,1,2,2-Tetrachloroethane	ND	500	ND	3400
Tetrachloroethene	**4000**	**500**	**27000**	**3400**
Toluene	**240 J**	**500**	**910 J**	**1900**
1,2,4-Trichlorobenzene	ND	2500	ND	18000
1,1,1-Trichloroethane	**320 J**	**500**	**1800 J**	**2700**
1,1,2-Trichloroethane	ND	500	ND	2700
Trichloroethene	**23000**	**500**	**120000**	**2700**
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	500	ND	3800
1,2,4-Trimethylbenzene	ND	500	ND	2400
1,3,5-Trimethylbenzene	ND	500	ND	2400
Vinyl acetate	ND	2500	ND	8800
Vinyl chloride	**50000**	**500**	**130000**	**1300**
o-Xylene	**560**	**500**	**2400**	**2200**
Methyl tert-butyl ether	ND	2500	ND	9000
alpha-Methylstyrene	ND	1000	ND	4800
Chlorodifluoromethane	ND	500	ND	1800

ARCADIS U.S., Inc.

Client Sample ID: TOI/090811

GC/MS Volatiles

Lot-Sample # H1I120425 - 001 **Work Order #** MMC8D1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
m-Xylene & p-Xylene	**760**	**500**	**3300**	**2200**
Bromodichloromethane	ND	500	ND	3300
1,2-Dibromoethane (EDB)	ND	500	ND	3800
2-Butanone (MEK)	ND	2500	ND	7300
4-Methyl-2-pentanone (MIBK)	ND	1200	ND	5100
Bromoform	ND	500	ND	5200
Bromomethane	ND	500	ND	1900
1,3-Butadiene	ND	1000	ND	2200
4-Ethyltoluene	ND	1000	ND	4900
Acrolein	ND	2000	ND	4600
Carbon disulfide	ND	1200	ND	3900
Acrylonitrile	ND	5000	ND	11000
Carbon tetrachloride	ND	500	ND	3100
Chlorobenzene	ND	500	ND	2300
Dibromochloromethane	ND	500	ND	4200
Chloroethane	**120 J**	**500**	**320 J**	**1300**
Chloroform	**410 J**	**500**	**2000 J**	**2400**
Chloromethane	ND	1200	ND	2600
3-Chloropropene	ND	500	ND	1600
Propene	**850 J**	**1200**	**1500 J**	**2100**
Dibromomethane	ND	1000	ND	7100
1,2-Dichlorobenzene	ND	500	ND	3000
1,3-Dichlorobenzene	ND	500	ND	3000
1,4-Dichlorobenzene	ND	500	ND	3000
Dichlorodifluoromethane	ND	500	ND	2500
1,1-Dichloroethane	**340 J**	**500**	**1400 J**	**2000**
1,2-Dichloroethane	ND	500	ND	2000
1,1-Dichloroethene	**610**	**500**	**2400**	**2000**
cis-1,2-Dichloroethene	**73000**	**500**	**290000**	**2000**
trans-1,2-Dichloroethene	**290 J**	**500**	**1100 J**	**2000**
1,2-Dichloropropane	ND	500	ND	2300
cis-1,3-Dichloropropene	ND	500	ND	2300

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

ARCADIS U.S., Inc.

Client Sample ID: TOI/090811

GC/MS Volatiles

Lot-Sample #	H1I120425 - 001	**Work Order #**	MMC8D1AA	**Matrix.....:**	AIR

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

ARCADIS U.S., Inc.

Client Sample ID: TOE/090811

GC/MS Volatiles

Lot-Sample #	H1I120425 - 002	**Work Order #**	MMC8K1AA	**Matrix.....:**	AIR

Date Sampled...:	09/08/2011	**Date Received..:**	09/12/2011
Prep Date.....:	09/14/2011	**Analysis Date...**	09/15/2011
Prep Batch #.....:	1258066		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Acetone	**19**	**5.0**	**44**	**12**
1,4-Dioxane	ND	0.50	ND	1.8
Ethyl acetate	ND	2.0	ND	7.2
Ethylbenzene	**0.14 J**	**0.20**	**0.59 J**	**0.87**
Trichlorofluoromethane	ND	0.20	ND	1.1
n-Heptane	**0.17 J**	**0.50**	**0.70 J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND	11
n-Hexane	**0.064 J**	**0.50**	**0.23 J**	**1.8**
2-Hexanone	**2.2**	**0.50**	**9.2**	**2.0**
2,2,4-Trimethylpentane	**0.26 J**	**0.50**	**1.2 J**	**2.3**
Cumene	ND	0.40	ND	2.0
tert-Butyl alcohol	**1.9 J**	**2.0**	**5.9 J**	**6.1**
Methylene chloride	**0.27 J B**	**0.50**	**0.93 J B**	**1.7**
Methyl methacrylate	ND	0.50	ND	2.0
Benzene	**0.083 J**	**0.20**	**0.27 J**	**0.64**
Acetonitrile	**2.3**	**1.0**	**3.9**	**1.7**
n-Octane	**0.082 J**	**0.40**	**0.38 J**	**1.9**
Pentane	ND	1.0	ND	3.0
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
Tetrachloroethene	ND	0.20	ND	1.4
Toluene	**0.72**	**0.20**	**2.7**	**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
1,1,1-Trichloroethane	ND	0.20	ND	1.1
1,1,2-Trichloroethane	ND	0.20	ND	1.1
Trichloroethene	ND	0.20	ND	1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
1,2,4-Trimethylbenzene	**0.19 J**	**0.20**	**0.93 J**	**0.98**
1,3,5-Trimethylbenzene	**0.13 J**	**0.20**	**0.66 J**	**0.98**
Vinyl acetate	ND	1.0	ND	3.5
Vinyl chloride	ND	0.20	ND	0.51
o-Xylene	**0.28**	**0.20**	**1.2**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND	3.6
alpha-Methylstyrene	ND	0.40	ND	1.9
Chlorodifluoromethane	**0.054 J**	**0.20**	**0.19 J**	**0.71**
m-Xylene & p-Xylene	**0.56**	**0.20**	**2.4**	**0.87**

ARCADIS U.S., Inc.

Client Sample ID: TOE/090811

GC/MS Volatiles

Lot-Sample # H11120425 - 002 **Work Order #** MMC8K1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Bromodichloromethane	ND	0.20	ND	1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
2-Butanone (MEK)	**3.0**	**1.0**	**8.8**	**2.9**
4-Methyl-2-pentanone (MIBK)	**1.1**	**0.50**	**4.6**	**2.0**
Bromoform	ND	0.20	ND	2.1
Bromomethane	ND	0.20	ND	0.78
1,3-Butadiene	ND	0.40	ND	0.88
4-Ethyltoluene	ND	0.40	ND	2.0
Acrolein	**0.60 J**	**0.80**	**1.4 J**	**1.8**
Carbon disulfide	**0.75**	**0.50**	**2.3**	**1.6**
Acrylonitrile	ND	2.0	ND	4.3
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	**0.037 J**	**0.20**	**0.097 J**	**0.53**
Chloroform	**0.17 J**	**0.20**	**0.83 J**	**0.98**
Chloromethane	**1.0**	**0.50**	**2.1**	**1.0**
3-Chloropropene	ND	0.20	ND	0.63
Propene	**0.28 J**	**0.50**	**0.48 J**	**0.86**
Dibromomethane	ND	0.40	ND	2.8
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	104	60 - 140

Qualifiers

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

ARCADIS U.S., Inc.

Client Sample ID: TOE/090811

GC/MS Volatiles

Lot-Sample #	H1I120425 - 002	**Work Order #**	MMC8K1AA	**Matrix.....:**	AIR

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

ARCADIS U.S., Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H1I150000 - 066B	**Work Order #**	MMF3W1AA	**Matrix.....:**	AIR

	09/08/2011	**Date Received..:**	09/12/2011
Prep Date.....:	09/14/2011	**Analysis Date...**	09/14/2011
Prep Batch #.....:	1258066		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Acetone	ND	5.0	ND	12
1,4-Dioxane	ND	0.50	ND	1.8
Ethyl acetate	ND	2.0	ND	7.2
Ethylbenzene	ND	0.20	ND	0.87
Trichlorofluoromethane	ND	0.20	ND	1.1
n-Heptane	ND	0.50	ND	2.0
Hexachlorobutadiene	ND	1.0	ND	11
n-Hexane	ND	0.50	ND	1.8
2-Hexanone	ND	0.50	ND	2.0
2,2,4-Trimethylpentane	ND	0.50	ND	2.3
Cumene	ND	0.40	ND	2.0
tert-Butyl alcohol	ND	2.0	ND	6.1
Methylene chloride	**0.12 J**	**0.50**	**0.42 J**	**1.7**
Methyl methacrylate	ND	0.50	ND	2.0
Benzene	ND	0.20	ND	0.64
Acetonitrile	ND	1.0	ND	1.7
n-Octane	ND	0.40	ND	1.9
Pentane	ND	1.0	ND	3.0
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
Tetrachloroethene	ND	0.20	ND	1.4
Toluene	ND	0.20	ND	0.75
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
1,1,1-Trichloroethane	ND	0.20	ND	1.1
1,1,2-Trichloroethane	ND	0.20	ND	1.1
Trichloroethene	ND	0.20	ND	1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
Vinyl acetate	ND	1.0	ND	3.5
Vinyl chloride	ND	0.20	ND	0.51
o-Xylene	ND	0.20	ND	0.87
Methyl tert-butyl ether	ND	1.0	ND	3.6
alpha-Methylstyrene	ND	0.40	ND	1.9
Chlorodifluoromethane	ND	0.20	ND	0.71

ARCADIS U.S., Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H1I150000 - 066B **Work Order #** MMF3W1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
m-Xylene & p-Xylene	ND	0.20	ND	0.87
Bromodichloromethane	ND	0.20	ND	1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
2-Butanone (MEK)	ND	1.0	ND	2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND	2.0
Bromoform	ND	0.20	ND	2.1
Bromomethane	ND	0.20	ND	0.78
1,3-Butadiene	ND	0.40	ND	0.88
4-Ethyltoluene	ND	0.40	ND	2.0
Acrolein	ND	0.80	ND	1.8
Carbon disulfide	ND	0.50	ND	1.6
Acrylonitrile	ND	2.0	ND	4.3
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	ND	0.50	ND	1.0
3-Chloropropene	ND	0.20	ND	0.63
Propene	ND	0.50	ND	0.86
Dibromomethane	ND	0.40	ND	2.8
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

ARCADIS U.S., Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H1I150000 - 066B	**Work Order #**	MMF3W1AA	**Matrix.....:**	AIR

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

ARCADIS U.S., Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H1I150000 - 066C **Work Order #** MMF3W1AC **Matrix.....:** AIR

09/08/2011 **Date Received..:** 09/12/2011
Prep Date.....: 09/14/2011 **Analysis Date...** 09/14/2011
Prep Batch #.....: 1258066
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
trans-1,3-Dichloropropene	5.00	4.68	23	21.3	94	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.00	4.69	35	32.8	94	60 - 140
Acetone	5.00	5.24	12	12.5	105	60 - 140
1,4-Dioxane	5.00	3.97	18	14.3	79	60 - 140
Ethyl acetate	5.00	5.22	18	18.8	104	60 - 140
Ethylbenzene	5.00	4.83	22	21.0	97	70 - 130
Trichlorofluoromethane	5.00	4.57	28	25.7	91	60 - 140
n-Heptane	5.00	4.46	20	18.3	89	70 - 130
Hexachlorobutadiene	5.00	5.12	53	54.6	102	60 - 140
n-Hexane	5.00	4.42	18	15.6	88	70 - 130
2-Hexanone	5.00	4.36	20	17.9	87	60 - 140
2,2,4-Trimethylpentane	5.00	4.29	23	20.0	86	70 - 130
Cumene	5.00	4.69	25	23.1	94	70 - 130
tert-Butyl alcohol	5.00	4.15	15	12.6	83	60 - 140
Methylene chloride	5.00	5.06	17	17.6	101	70 - 130
Methyl methacrylate	5.00	5.12	20	21.0	102	60 - 140
Benzene	5.00	4.75	16	15.2	95	70 - 130
Acetonitrile	5.00	5.05	8.4	8.48	101	60 - 140
n-Octane	5.00	4.48	23	20.9	90	70 - 130
Pentane	5.00	4.45	15	13.1	89	70 - 130
Styrene	5.00	5.13	21	21.9	103	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.88	34	33.5	98	70 - 130
Tetrachloroethene	5.00	4.51	34	30.6	90	70 - 130
Toluene	5.00	4.66	19	17.6	93	70 - 130
1,2,4-Trichlorobenzene	5.00	5.40	37	40.1	108	60 - 140
1,1,1-Trichloroethane	5.00	4.94	27	27.0	99	70 - 130
1,1,2-Trichloroethane	5.00	4.54	27	24.8	91	70 - 130
Trichloroethene	5.00	4.46	27	23.9	89	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	5.17	38	39.6	103	70 - 130
1,2,4-Trimethylbenzene	5.00	5.07	25	24.9	101	70 - 130
1,3,5-Trimethylbenzene	5.00	5.03	25	24.7	101	70 - 130
Vinyl acetate	5.00	5.12	18	18.0	102	60 - 140
Vinyl chloride	5.00	4.95	13	12.6	99	70 - 130
o-Xylene	5.00	4.84	22	21.0	97	70 - 130
Methyl tert-butyl ether	5.00	4.94	18	17.8	99	60 - 140
alpha-Methylstyrene	5.00	4.91	24	23.8	98	60 - 140

ARCADIS U.S., Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H1I150000 - 066C **Work Order #** MMF3W1AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Chlorodifluoromethane	5.00	4.62	18	16.3	92	60 - 140
m-Xylene & p-Xylene	10.0	9.63	43	41.8	96	70 - 130
Bromodichloromethane	5.00	4.72	34	31.6	94	70 - 130
1,2-Dibromoethane (EDB)	5.00	4.67	38	35.9	93	70 - 130
2-Butanone (MEK)	5.00	4.64	15	13.7	93	60 - 140
4-Methyl-2-pentanone (MIBK)	5.00	4.50	20	18.4	90	60 - 140
Bromoform	5.00	4.47	52	46.2	89	60 - 140
Bromomethane	5.00	4.58	19	17.8	92	70 - 130
1,3-Butadiene	5.00	5.20	11	11.5	104	60 - 140
4-Ethyltoluene	5.00	5.03	25	24.7	101	70 - 130
Acrolein	5.00	3.88	11	8.90	78	60 - 140
Carbon disulfide	5.00	4.78	16	14.9	96	70 - 130
Acrylonitrile	5.00	4.84	11	10.5	97	60 - 140
Carbon tetrachloride	5.00	3.25	31	20.4 a ME	65 a ME	70 - 130
Chlorobenzene	5.00	4.64	23	21.4	93	70 - 130
Dibromochloromethane	5.00	4.67	43	39.8	93	70 - 130
Chloroethane	5.00	4.61	13	12.2	92	70 - 130
Chloroform	5.00	4.95	24	24.2	99	70 - 130
Chloromethane	5.00	4.74	10	9.79	95	60 - 140
3-Chloropropene	5.00	4.41	16	13.8	88	60 - 140
Propene	5.00	4.31	8.6	7.41	86	60 - 140
Dibromomethane	5.00	4.39	36	31.2	88	70 - 130
1,2-Dichlorobenzene	5.00	4.76	30	28.6	95	70 - 130
1,3-Dichlorobenzene	5.00	4.81	30	28.9	96	70 - 130
1,4-Dichlorobenzene	5.00	4.84	30	29.1	97	70 - 130
Dichlorodifluoromethane	5.00	4.87	25	24.1	97	60 - 140
1,1-Dichloroethane	5.00	4.91	20	19.9	98	70 - 130
1,2-Dichloroethane	5.00	4.85	20	19.6	97	70 - 130
1,1-Dichloroethene	5.00	5.40	20	21.4	108	70 - 130
cis-1,2-Dichloroethene	5.00	4.94	20	19.6	99	70 - 130
trans-1,2-Dichloroethene	5.00	4.55	20	18.1	91	70 - 130
1,2-Dichloropropane	5.00	4.71	23	21.8	94	70 - 130
cis-1,3-Dichloropropene	5.00	4.71	23	21.4	94	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	60 - 140

ARCADIS U.S., Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample #	H1I150000 - 066C	**Work Order #**	MMF3W1AC	**Matrix.....:**	AIR

Qualifiers

a	Spiked analyte recovery is outside stated control limits.
ME	The percent recovery of the analyte is outside the control limits but within marginal exceedance limits.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Data Summary

ARCADIS U.S., Inc.

Client Sample ID: TOI/090811

GC Volatiles

Lot-Sample #...: H1I120425-001 Work Order #...: MMC8D1AC Matrix.....: AIR
Date Sampled...: 09/08/11 Date Received..: 09/12/11
Prep Date.....: 09/19/11 Analysis Date..: 09/19/11
Prep Batch #...: 1262011
Dilution Factor: 1.99 Method.....: ASTM D 1946/E 260

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methane	0.54	0.20	%

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: H1I120425 Work Order #...: MMH4D1AA Matrix.....: AIR
MB Lot-Sample #: H1I190000-011

Prep Date.....: 09/19/11
Analysis Date..: 09/19/11 Prep Batch #...: 1262011
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methane	ND	0.10	%	ASTM D 1946/E 260

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: H1I120425 Work Order #...: MMH4D1AC Matrix.....: AIR
LCS Lot-Sample#: H1I190000-011
Prep Date.....: 09/19/11 Analysis Date..: 09/19/11
Prep Batch #...: 1262011
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methane	96	(70 - 130)	ASTM D 1946/E 260

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: H1I120425 Work Order #...: MMH4D1AC Matrix.....: AIR
LCS Lot-Sample#: H1I190000-011
Prep Date.....: 09/19/11 Analysis Date..: 09/19/11
Prep Batch #...: 1262011
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methane	4.00	3.86	%	96	ASTM D 1946/E

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Receipt Documentation

HI 120 425

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: (b) [redacted]	Sampled (b) (4) [redacted]	1 of 2 COCs
Company: ARCADIS US INC	Phone: 614-764-2310	814-120-1212	
Address: 289 CRAMER CREEK COURT	Site Contact:		
City/State/Zip DUBLIN OH 43017	TAL Contact:		
Phone: 614-764-2310			
FAX:			
Project Name: LORD-SHOPE L.F.	Analysis Turnaround Time		
Site/location: GIRARD PA	Standard (Specify) ✓		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
TOI/090811	9/8/11						654	X					X					X	
TOE/090811	9/8/11						1128	X										X	

Sampled by :	Temperature (Fahrenheit)			
		Interior	Ambient	
	Start			
	Stop			
	Pressure (inches of Hg)			
		Interior	Ambient	
	Start			
	Stop			

X- METHANE METHOD EPA-18
1 Box Rec'd @ Ambient Temp
with custody Seal intact 9/12/11
1 Box UPS #
1Z183X76 03 9339 9331

Special Instructions/QC Requirements & Comments: 2 CANS / NO FLOWS.

Canisters Shipped by:	Date/Time:	Canisters Received by: [redacted] 9/12/11 14:15
(b) (4) [redacted]	Date/Time: 9/8/11 4:30 AM	Received by:
Relinquished by:	Date/Time:	Received by:

HI120425

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: KNOXVILLE

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: ARCADIS US INC	Client Project Manager: (b) (4) [redacted]	Site Contact: (b) (4) [redacted]	Lab Contact:
Address: 284 CRAMER CREEK COURT	Telephone: 614-764-2310	Telephone: 814-720-1212	Telephone:
City/State/Zip: DUBLIN OH 43017	Email:	Analysis Turnaround Time (No BUS days)	
Phone: 614-764-2310		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	
Project Name: LORD-SHOPE L.F.	Method of Shipment/Carrier: UPS		
Project Number:	Shipping/Tracking No:		
PO#			

COC No: 032057

2 of 2 COCs

For lab use only: Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No.:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite/Grab (C/G)	Analyses: TO-15		METHANE EPA-18							Sample Specific Notes / Special Instructions:
TOI/090811	9/8/11		X										X		N	G	X		X							
TOE/090811	9/8/11		X										X		N	G	X									

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
(b) (4) [redacted]	GROUNDWATER RESOURCES	9/8/11 4:30PM	(b) (4) [redacted]	[redacted]	9/12/11 14:15
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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TAL 0018-1 (04/10)

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: HIF120425

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	15A No collection Time on COC.
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)	✓			☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____ ☐ 2c Cooling initiated for recently collected samples, ice present.	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?		✓		☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 79678 PM Instructions: _____

Sample Receiving Associate (b) (4) [redacted] Date: 9/12/11

QA026R22.doc, 012811

Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: *H1I120425*

Initial Can Pressure							Subsequent Dilutions											
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	Analyst/Date	I / S	Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
9/12/11	NA	28.93	MMC8D	6521	-2.8	11.3	9/13/11		28.93						9383	10.2	3.6	9419
↓	↓	↓	MMC8K	1128	-9.0	2.0												9419

Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: *HII120425*

Perm Gas.

Initial Can Pressure							Subsequent Dilutions											
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	Analyst/Date	I / S	Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
9/12/11	NA	28.93	MMC8D	6521	-2.8	11.3	9/13/11		28.93						~~9363~~	~~10mL~~	~~3.6~~ *	9419
↓	↓	↓	MMC8K	1128	-9.0	2.0												9419

* 9/13/11 NA for perm gas

MS038 Revision 8

Sample Number	Sample Date/Time	Method	Analyte	Result	Units	Qualifier
TOE/090811	9/8/2011 14:00	TO-15	Ethylbenzene	0.14	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	Styrene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	cis-1,3-Dichloropropene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	trans-1,3-Dichloropropene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	1,4-Dichlorobenzene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	1,2-Dibromoethane (EDB)	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	1,3-Butadiene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Acrolein	0.6	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	3-Chloropropene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	1,2-Dichloroethane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Acrylonitrile	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Vinyl acetate	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	4-Methyl-2-pentanone (MIBK)	1.1	PPB(V/V)	
TOE/090811	9/8/2011 14:00	TO-15	1,3,5-Trimethylbenzene	0.13	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	Toluene	0.72	PPB(V/V)	
TOE/090811	9/8/2011 14:00	TO-15	Chlorobenzene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Pentane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	n-Hexane	0.064	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	n-Octane	0.082	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	Propene	0.28	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	1,2,4-Trichlorobenzene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	1,4-Dioxane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Dibromochloromethane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Tetrachloroethene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	m-Xylene & p-Xylene	0.56	PPB(V/V)	
TOE/090811	9/8/2011 14:00	TO-15	Ethyl acetate	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	n-Heptane	0.17	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	cis-1,2-Dichloroethene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	trans-1,2-Dichloroethene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Methyl tert-butyl ether	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	4-Bromofluorobenzene	104	%	
TOE/090811	9/8/2011 14:00	TO-15	2,2,4-Trimethylpentane	0.26	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	1,3-Dichlorobenzene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Carbon tetrachloride	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	2-Hexanone	2.2	PPB(V/V)	
TOE/090811	9/8/2011 14:00	TO-15	4-Ethyltoluene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Acetone	19	PPB(V/V)	
TOE/090811	9/8/2011 14:00	TO-15	Chloroform	0.17	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	Benzene	0.083	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	1,1,1-Trichloroethane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Bromomethane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Chloromethane	1	PPB(V/V)	
TOE/090811	9/8/2011 14:00	TO-15	Dibromomethane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Chloroethane	0.037	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	Vinyl chloride	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Acetonitrile	2.3	PPB(V/V)	
TOE/090811	9/8/2011 14:00	TO-15	Methylene chloride	0.27	PPB(V/V)	J B
TOE/090811	9/8/2011 14:00	TO-15	Carbon disulfide	0.75	PPB(V/V)	
TOE/090811	9/8/2011 14:00	TO-15	Bromoform	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Bromodichloromethane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	1,1-Dichloroethane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	1,1-Dichloroethene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Chlorodifluoromethane	0.054	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	tert-Butyl alcohol	1.9	PPB(V/V)	J

TOE/090811	9/8/2011 14:00	TO-15	Trichlorofluoromethane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Dichlorodifluoromethane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	1,1,2-Trichloro-1,2,2-trifluor	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	1,2-Dichloro-1,1,2,2-tetrafluo	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	1,2-Dichloropropane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	2-Butanone (MEK)	3	PPB(V/V)	
TOE/090811	9/8/2011 14:00	TO-15	1,1,2-Trichloroethane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Trichloroethene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	1,1,2,2-Tetrachloroethane	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Methyl methacrylate	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	Hexachlorobutadiene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	o-Xylene	0.28	PPB(V/V)	
TOE/090811	9/8/2011 14:00	TO-15	1,2-Dichlorobenzene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	1,2,4-Trimethylbenzene	0.19	PPB(V/V)	J
TOE/090811	9/8/2011 14:00	TO-15	Cumene	ND	PPB(V/V)	U
TOE/090811	9/8/2011 14:00	TO-15	alpha-Methylstyrene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	D 1946/E	Methane	0.54	%	
TOI/090811	9/8/2011 13:55	TO-15	Ethylbenzene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Styrene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	cis-1,3-Dichloropropene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	trans-1,3-Dichloropropene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,4-Dichlorobenzene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,2-Dibromoethane (EDB)	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,3-Butadiene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Acrolein	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	3-Chloropropene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,2-Dichloroethane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Acrylonitrile	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Vinyl acetate	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	4-Methyl-2-pentanone (MIBK)	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,3,5-Trimethylbenzene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Toluene	240	PPB(V/V)	J
TOI/090811	9/8/2011 13:55	TO-15	Chlorobenzene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Pentane	200	PPB(V/V)	J
TOI/090811	9/8/2011 13:55	TO-15	n-Hexane	400	PPB(V/V)	J
TOI/090811	9/8/2011 13:55	TO-15	n-Octane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Propene	850	PPB(V/V)	J
TOI/090811	9/8/2011 13:55	TO-15	1,2,4-Trichlorobenzene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,4-Dioxane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Dibromochloromethane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Tetrachloroethene	4000	PPB(V/V)	
TOI/090811	9/8/2011 13:55	TO-15	m-Xylene & p-Xylene	760	PPB(V/V)	
TOI/090811	9/8/2011 13:55	TO-15	Ethyl acetate	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	n-Heptane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	cis-1,2-Dichloroethene	73000	PPB(V/V)	
TOI/090811	9/8/2011 13:55	TO-15	trans-1,2-Dichloroethene	290	PPB(V/V)	J
TOI/090811	9/8/2011 13:55	TO-15	Methyl tert-butyl ether	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	4-Bromofluorobenzene	99	%	
TOI/090811	9/8/2011 13:55	TO-15	2,2,4-Trimethylpentane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,3-Dichlorobenzene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Carbon tetrachloride	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	2-Hexanone	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	4-Ethyltoluene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Acetone	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Chloroform	410	PPB(V/V)	J

TOI/090811	9/8/2011 13:55	TO-15	Benzene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,1,1-Trichloroethane	320	PPB(V/V)	J
TOI/090811	9/8/2011 13:55	TO-15	Bromomethane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Chloromethane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Dibromomethane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Chloroethane	120	PPB(V/V)	J
TOI/090811	9/8/2011 13:55	TO-15	Vinyl chloride	50000	PPB(V/V)	
TOI/090811	9/8/2011 13:55	TO-15	Acetonitrile	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Methylene chloride	430	PPB(V/V)	J B
TOI/090811	9/8/2011 13:55	TO-15	Carbon disulfide	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Bromoform	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Bromodichloromethane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,1-Dichloroethane	340	PPB(V/V)	J
TOI/090811	9/8/2011 13:55	TO-15	1,1-Dichloroethene	610	PPB(V/V)	
TOI/090811	9/8/2011 13:55	TO-15	Chlorodifluoromethane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	tert-Butyl alcohol	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Trichlorofluoromethane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Dichlorodifluoromethane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,1,2-Trichloro-1,2,2-trifluor	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,2-Dichloro-1,1,2,2-tetrafluo	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,2-Dichloropropane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	2-Butanone (MEK)	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,1,2-Trichloroethane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Trichloroethene	23000	PPB(V/V)	
TOI/090811	9/8/2011 13:55	TO-15	1,1,2,2-Tetrachloroethane	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Methyl methacrylate	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Hexachlorobutadiene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	o-Xylene	560	PPB(V/V)	
TOI/090811	9/8/2011 13:55	TO-15	1,2-Dichlorobenzene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	1,2,4-Trimethylbenzene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	Cumene	ND	PPB(V/V)	U
TOI/090811	9/8/2011 13:55	TO-15	alpha-Methylstyrene	ND	PPB(V/V)	U