TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-57744-1

Job Description: WGK Vapor Sampling 5/11/10

For:
Solutia Inc.
575 Maryville Centre Dr.
Saint Louis, MO 63141

Attention: Mr. William G Johnson

Approved for release.
Lidya Gulizia
Project Manager I
6/28/2010 4:18 PM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
06/28/2010

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Job Narrative
Savannah 680-57744-1 / Knoxville H0E140443

Receipt
Following sample collection, the air sample was sent directly to TestAmerica Knoxville for analysis and was received in good condition on May 14, 2010. Please refer to the sample receiving information contained in the body of the Knoxville report for more detailed information regarding receipt.

No analytical or quality issues were noted.

Subcontract Work
Method(s) VOCs in Ambient Air / Tedlar Bag: The sample has been subcontracted to TestAmerica Knoxville the subcontract certifications are different from those listed on the TestAmerica cover page of this final report.

Comments
No additional comments.

METHOD SUMMARY

Client: Solutia Inc.

Job Number: 680-57744-1

Description	Lab Location	Method	Preparation Method
Matrix: Air - Tedlar Bag			
EPA TO-15	TAL KNX	EPA-21 TO-15	

Lab References:

TAL KNX = TestAmerica Knoxville

Method References:

EPA-21 = "Compendium Of Methods For The Determination Of Toxic Organic Compounds In Ambient Air", Second Edition, EPA/625/R-96/010B, January 1999

SAMPLE SUMMARY

Client: Solutia Inc.

Job Number: 680-57744-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-57744-1	WGK-BIGMO-SVE-Line A-V	Air - Tedlar Bag	05/14/2010 1530 05/13/2010 els 10/26/10	05/14/2010 1000

SAMPLE RESULTS

H0E140443 Analytical Report..... 1
Sample Receipt Documentation 14
Total Number of Pages 16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 680-57744

Solutia Vapor Sampling

Lot #: H0E140443

Lidya Gulizia

TestAmerica Savannah
5102 Laroche Avenue
Savannah, GA 31404

TESTAMERICA LABORATORIES, INC.

Terry Wasmund
Project Manager

June 4, 2010

ANALYTICAL METHODS SUMMARY

H0E140443

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

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

SAMPLE SUMMARY

H0E140443

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L1HNK	001	WGK-BIGMO-SVE-LINE A-V	~~05/11/10~~ 05/13/10	15:30

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.

(ejs) 10/26/10

PROJECT NARRATIVE
HOE140443

The results reported herein are applicable to the samples submitted for analysis only.

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 listed the sample collection date as 5/11/09, but the sample label showed the date as 3/15/10. Per the sampler, Reggie Gardner, the collection date was ~~5/11/10~~, and the sample was logged accordingly.

5/13/10 - ELS reviewed field logs and fed ex receipts. 10/26/10

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.

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. Even though the calibration verification analyzed on 5/18/10 exhibited a % difference of > 30% for 1,2,4-trichlorobenzene and hexachlorobutadiene, the results were within the LCS acceptance limits.

Although 1,2,4-trichlorobenzene is flagged as being outside recovery limits in the laboratory control sample for batch 0139077, the laboratory control sample is in control. The standard operating procedure allows for 2 analytes to be outside the control limits, but within marginal exceedence limit.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Lab #88-0688, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Lab #PH-0223, Florida DOH Lab #E87177, Georgia DNR Lab #906, Hawaii DOH, Illinois EPA Lab #200012, Indiana DOH Lab #C-TN-02, Iowa DNR Lab #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH, Maryland DOE Cert. #277, Michigan DEQ Lab #9933, Nevada DEP, New Jersey DEP Lab #TN001, New York DOH Lab #10781, North Carolina DPH Lab #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Lab #CL0059, Oklahoma DEQ Lab #9415, Pennsylvania DEP Lab #68-00576, South Carolina DHEC Cert #84001001, Tennessee DOH Lab #02014, Texas CEQ, Utah DOH Lab # QUAN3, Virginia DGS Lab #00165, Washington DOE Lab #C1314, West Virginia DEP Cert. #345, West Virginia DHHR Cert #9955C, Wisconsin DNR Lab #998044300, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE
H0E140443

The sample was received on 5/14/10 in a Tedlar bag and transferred into a Summa Canister within 72 hours of sampling.

TestAmerica Savannah

Client Sample ID: WGK-BIGMO-SVE-LINE A-V

GC/MS Volatiles

Lot-Sample #...: H0E140443-001 Work Order #...: L1HNK1AA Matrix.....: AIR
Date Sampled...: ~~05/11/10~~ 5/13/10 Date Received..: 05/14/10
Prep Date.....: 05/18/10 (DLS) Analysis Date..: 05/19/10
Prep Batch #...: 0139077
Dilution Factor: 29106.69 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	5800	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	5800	ppb(v/v)
Chloromethane	ND	15000	ppb(v/v)
Vinyl chloride	ND	5800	ppb(v/v)
Bromomethane	ND	5800	ppb(v/v)
Chloroethane	ND	5800	ppb(v/v)
Trichlorofluoromethane	ND	5800	ppb(v/v)
1,1-Dichloroethene	ND	5800	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5800	ppb(v/v)
Methylene chloride	ND	15000	ppb(v/v)
1,1-Dichloroethane	ND	5800	ppb(v/v)
cis-1,2-Dichloroethene	ND	5800	ppb(v/v)
Chloroform	ND	5800	ppb(v/v)
1,1,1-Trichloroethane	ND	5800	ppb(v/v)
Carbon tetrachloride	ND	5800	ppb(v/v)
Benzene	**650000**	**5800**	**ppb(v/v)**
1,2-Dichloroethane	ND	5800	ppb(v/v)
Trichloroethene	ND	5800	ppb(v/v)
1,2-Dichloropropane	ND	5800	ppb(v/v)
cis-1,3-Dichloropropene	ND	5800	ppb(v/v)
Toluene	ND	5800	ppb(v/v)
trans-1,3-Dichloropropene	ND	5800	ppb(v/v)
1,1,2-Trichloroethane	ND	5800	ppb(v/v)
Tetrachloroethene	ND	5800	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	5800	ppb(v/v)
Chlorobenzene	ND	5800	ppb(v/v)
Ethylbenzene	ND	5800	ppb(v/v)
m-Xylene & p-Xylene	ND	5800	ppb(v/v)
o-Xylene	ND	5800	ppb(v/v)
Styrene	ND	5800	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	5800	ppb(v/v)
1,3,5-Trimethylbenzene	ND	5800	ppb(v/v)
1,2,4-Trimethylbenzene	ND	5800	ppb(v/v)
1,3-Dichlorobenzene	ND	5800	ppb(v/v)
1,4-Dichlorobenzene	ND	5800	ppb(v/v)
1,2-Dichlorobenzene	ND	5800	ppb(v/v)
Benzyl chloride	ND	12000	ppb(v/v)

(Continued on next page)

TestAmerica Savannah

Client Sample ID: WGK-BIGMO-SVE-LINE A-V

GC/MS Volatiles

Lot-Sample #...: H0E140443-001 Work Order #...: L1HNK1AA Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,2,4-Trichloro-benzene	ND	29000	ppb(v/v)
Hexachlorobutadiene	ND	29000	ppb(v/v)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	97	(60 - 140)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H0E140443 **Work Order #...:** L1PHP1AA **Matrix.....:** AIR
MB Lot-Sample #: H0E190000-077

Prep Date.....: 05/18/10
Analysis Date..: 05/18/10 **Prep Batch #...:** 0139077
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Chloromethane	ND	0.50	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	ND	0.20	ppb(v/v)	EPA-2 TO-15
Bromomethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Chloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Methylene chloride	ND	0.50	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
Chloroform	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	0.20	ppb(v/v)	EPA-2 TO-15
Benzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Trichloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	0.20	ppb(v/v)	EPA-2 TO-15
cis-1,3-Dichloropropene	ND	0.20	ppb(v/v)	EPA-2 TO-15
Toluene	ND	0.20	ppb(v/v)	EPA-2 TO-15
trans-1,3-Dichloropropene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,1,2-Trichloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	0.20	ppb(v/v)	EPA-2 TO-15
o-Xylene	ND	0.20	ppb(v/v)	EPA-2 TO-15
Styrene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
Benzyl chloride	ND	0.40	ppb(v/v)	EPA-2 TO-15
1,2,4-Trichloro-benzene	ND	1.0	ppb(v/v)	EPA-2 TO-15

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H0E140443 **Work Order #...:** L1PHP1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ppb(v/v)	EPA-2 TO-15

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

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H0E140443 Work Order #...: L1PHP1AC Matrix.....: AIR
LCS Lot-Sample#: H0E190000-077
Prep Date.....: 05/18/10 Analysis Date..: 05/18/10
Prep Batch #...: 0139077
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	103	(60 - 140)	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	109	(60 - 140)	EPA-2 TO-15
Chloromethane	102	(60 - 140)	EPA-2 TO-15
Vinyl chloride	99	(70 - 130)	EPA-2 TO-15
Bromomethane	101	(70 - 130)	EPA-2 TO-15
Chloroethane	105	(70 - 130)	EPA-2 TO-15
Trichlorofluoromethane	99	(60 - 140)	EPA-2 TO-15
1,1-Dichloroethene	98	(70 - 130)	EPA-2 TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	95	(70 - 130)	EPA-2 TO-15
Methylene chloride	89	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethane	92	(70 - 130)	EPA-2 TO-15
cis-1,2-Dichloroethene	93	(70 - 130)	EPA-2 TO-15
Chloroform	90	(70 - 130)	EPA-2 TO-15
1,1,1-Trichloroethane	95	(70 - 130)	EPA-2 TO-15
Carbon tetrachloride	109	(70 - 130)	EPA-2 TO-15
Benzene	94	(70 - 130)	EPA-2 TO-15
1,2-Dichloroethane	103	(70 - 130)	EPA-2 TO-15
Trichloroethene	100	(70 - 130)	EPA-2 TO-15
1,2-Dichloropropane	96	(70 - 130)	EPA-2 TO-15
cis-1,3-Dichloropropene	99	(70 - 130)	EPA-2 TO-15
Toluene	94	(70 - 130)	EPA-2 TO-15
trans-1,3-Dichloropropene	99	(70 - 130)	EPA-2 TO-15
1,1,2-Trichloroethane	98	(70 - 130)	EPA-2 TO-15
Tetrachloroethene	92	(70 - 130)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	98	(70 - 130)	EPA-2 TO-15
Chlorobenzene	92	(70 - 130)	EPA-2 TO-15
Ethylbenzene	95	(70 - 130)	EPA-2 TO-15
m-Xylene & p-Xylene	94	(70 - 130)	EPA-2 TO-15
o-Xylene	91	(70 - 130)	EPA-2 TO-15
Styrene	99	(70 - 130)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	96	(70 - 130)	EPA-2 TO-15
1,3,5-Trimethylbenzene	77	(70 - 130)	EPA-2 TO-15

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H0E140443 Work Order #...: L1PHP1AC Matrix.....: AIR
LCS Lot-Sample#: H0E190000-077

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2,4-Trimethylbenzene	76	(70 - 130)	EPA-2 TO-15
1,3-Dichlorobenzene	85	(70 - 130)	EPA-2 TO-15
1,4-Dichlorobenzene	85	(70 - 130)	EPA-2 TO-15
1,2-Dichlorobenzene	82	(70 - 130)	EPA-2 TO-15
Benzyl chloride	88	(70 - 130)	EPA-2 TO-15
1,2,4-Trichloro-benzene	56 a	(60 - 140)	EPA-2 TO-15
Hexachlorobutadiene	63	(60 - 140)	EPA-2 TO-15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	103	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H0E140443 Work Order #...: L1PHP1AC Matrix.....: AIR
LCS Lot-Sample#: H0E190000-077
Prep Date.....: 05/18/10 Analysis Date..: 05/18/10
Prep Batch #...: 0139077
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Dichlorodifluoromethane	10.0	10.3	ppb(v/v)	103	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	10.0	10.9	ppb(v/v)	109	EPA-2 TO-15
Chloromethane	10.0	10.2	ppb(v/v)	102	EPA-2 TO-15
Vinyl chloride	10.0	9.94	ppb(v/v)	99	EPA-2 TO-15
Bromomethane	10.0	10.1	ppb(v/v)	101	EPA-2 TO-15
Chloroethane	10.0	10.5	ppb(v/v)	105	EPA-2 TO-15
Trichlorofluoromethane	10.0	9.92	ppb(v/v)	99	EPA-2 TO-15
1,1-Dichloroethene	10.0	9.77	ppb(v/v)	98	EPA-2 TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.52	ppb(v/v)	95	EPA-2 TO-15
Methylene chloride	10.0	8.86	ppb(v/v)	89	EPA-2 TO-15
1,1-Dichloroethane	10.0	9.20	ppb(v/v)	92	EPA-2 TO-15
cis-1,2-Dichloroethene	10.0	9.28	ppb(v/v)	93	EPA-2 TO-15
Chloroform	10.0	9.00	ppb(v/v)	90	EPA-2 TO-15
1,1,1-Trichloroethane	10.0	9.49	ppb(v/v)	95	EPA-2 TO-15
Carbon tetrachloride	10.0	10.9	ppb(v/v)	109	EPA-2 TO-15
Benzene	10.0	9.35	ppb(v/v)	94	EPA-2 TO-15
1,2-Dichloroethane	10.0	10.3	ppb(v/v)	103	EPA-2 TO-15
Trichloroethene	10.0	10.0	ppb(v/v)	100	EPA-2 TO-15
1,2-Dichloropropane	10.0	9.56	ppb(v/v)	96	EPA-2 TO-15
cis-1,3-Dichloropropene	10.0	9.95	ppb(v/v)	99	EPA-2 TO-15
Toluene	10.0	9.37	ppb(v/v)	94	EPA-2 TO-15
trans-1,3-Dichloropropene	10.0	9.91	ppb(v/v)	99	EPA-2 TO-15
1,1,2-Trichloroethane	10.0	9.76	ppb(v/v)	98	EPA-2 TO-15
Tetrachloroethene	10.0	9.20	ppb(v/v)	92	EPA-2 TO-15
1,2-Dibromoethane (EDB)	10.0	9.83	ppb(v/v)	98	EPA-2 TO-15
Chlorobenzene	10.0	9.22	ppb(v/v)	92	EPA-2 TO-15
Ethylbenzene	10.0	9.55	ppb(v/v)	95	EPA-2 TO-15
m-Xylene & p-Xylene	20.0	18.8	ppb(v/v)	94	EPA-2 TO-15
o-Xylene	10.0	9.05	ppb(v/v)	91	EPA-2 TO-15
Styrene	10.0	9.94	ppb(v/v)	99	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	10.0	9.60	ppb(v/v)	96	EPA-2 TO-15
1,3,5-Trimethylbenzene	10.0	7.73	ppb(v/v)	77	EPA-2 TO-15

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H0E140443 Work Order #...: L1PHP1AC Matrix.....: AIR
LCS Lot-Sample#: H0E190000-077

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2,4-Trimethylbenzene	10.0	7.63	ppb(v/v)	76	EPA-2 TO-15
1,3-Dichlorobenzene	10.0	8.50	ppb(v/v)	85	EPA-2 TO-15
1,4-Dichlorobenzene	10.0	8.54	ppb(v/v)	85	EPA-2 TO-15
1,2-Dichlorobenzene	10.0	8.25	ppb(v/v)	82	EPA-2 TO-15
Benzyl chloride	10.0	8.80	ppb(v/v)	88	EPA-2 TO-15
1,2,4-Trichloro-benzene	10.0	5.63 a	ppb(v/v)	56	EPA-2 TO-15
Hexachlorobutadiene	10.0	6.26	ppb(v/v)	63	EPA-2 TO-15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	103	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

HOE140443

Chain of Custody Record

TestAmerica

Client Information	Sampler: Reggie Gardner - PSC	Lab PM: Lidya Gulizia	Carrier Tracking No(s): FEDEX	COC No:
Client Contact: William Johnson	Phone: 618-407-3811	E-Mail: rgardner@pscnow.com		Page: 1 of 1
Company: Solutia Inc.				TA Job #:
Address: 575 Maryville Centre Dr.	Due Date Requested:			
City: Saint Louis	TAT Requested (days): Standard			
State, Zip: Missouri 63141				
Phone: 603-778-1100 x234	PO #:			
Email: crawford@xdd-llc.com	WO #:			
Project Name: XDD - Solutia BIG MO	Project #: Solutia - Sauget BIG MO			
Site: Sauget, IL	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	US EPA TO-15 (Level 2)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
WGK-BIGMO-SVE-Line A-V	~~5/14/2009~~ 5/13/10	1530	G	A			x		
~~WGK-BIGMO-TMX-INF-A~~	~~/ /2009~~		G	A			x		
	ets 10/26/10								

1 Box recieved ambient
FedEx 8679 7977 8934
no custody seals
AJM 5-14-10
TS 5/14/10

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Reggie Gardner	5/13/10 @ 1615	PSC	[signature]	10:00 5-14-10	TA Knox

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

14

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: HOE140443

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:	1A. COC LISTS COLLECTION DATE AS 5/11/10, TEDLAR BAG SAYS 3/15/10. DG 5-14-10
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)			√	☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	4A ~~WILL LOG PER COC~~ DG 5-14-10 PER REGGIE CARTER COLLECTION DATE IS 5-11-2010
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 #: 80050 PM Instructions: NA

Sample Receiving Associate: Lola Smith Date: 5/14/10

QA026R21.doc, 090409

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

Lot Number: *H0E140443*

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
DDF 5-14-10	1410	29.17	L1HNK	12208									② 1305		12208	2	430.1	8620