TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-59177-1

Job Description: WGK Vapor Sampling 7/6/10

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

Attention: Mr. William G Johnson

Approved for release.
Lidya Gulizia
Project Manager I
7/29/2010 12:02 PM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
07/29/2010

cc: Mr. Scott Crawford
Erin Stanisewski

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

Receipt
Following sample collection, the air sample was sent directly to TestAmerica Knoxville for analysis and was received in good condition on July 7, 2010. Please refer to the sample receiving information contained in the body of the Knoxville report for more detailed information regarding receipt.

Comments
No additional comments.

METHOD SUMMARY

Client: Solutia Inc. Job Number: 680-59177-1

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: 680-59177-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-59177-1	WGK-BIGMO-SVE-Line A-V	Air - Tedlar Bag	07/06/2010 1510	07/07/2010 1000
680-59177-2	WGK-BIGMO-TMX-INF-A	Air - Tedlar Bag	07/06/2010 1505	07/07/2010 1000
680-59177-3	WGK-BIGMO-TMX-EFF-A	Air - Tedlar Bag	07/06/2010 1500	07/07/2010 1000

SAMPLE RESULTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 680-59177

Solutia Vapor Sampling

Lot #: H0G070420

Lidya Gulizia

TestAmerica Savannah
5102 Laroche Avenue
Savannah, GA 31404

TESTAMERICA LABORATORIES, INC.

Terry Wasmund
Project Manager

July 27, 2010

ANALYTICAL METHODS SUMMARY

H0G070420

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

H0G070420

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L3VJW	001	WGK-BIGMO-SVE-LINE A-V	07/06/10	15:10
L3VJX	002	WGK-BIGMO-TMX-INF-A	07/06/10	15:05
L3VJ1	003	WGK-BIGMO-TMX-EFF-A	07/06/10	15:00

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
H0G070420

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

Custody seals were not present.

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 samples were received on 7/7/10 in Tedlar bags and transferred into Summa Canisters within 72 hours of sampling.

TestAmerica Savannah

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

GC/MS Volatiles

Lot-Sample #...: H0G070420-001 **Work Order #...:** L3VJW1AA **Matrix.....:** AIR
Date Sampled...: 07/06/10 **Date Received..:** 07/07/10
Prep Date.....: 07/20/10 **Analysis Date..:** 07/21/10
Prep Batch #...: 0202161
Dilution Factor: 100329.2 **Method.....:** EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	20000	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	20000	ppb(v/v)
Chloromethane	ND	50000	ppb(v/v)
Vinyl chloride	ND	20000	ppb(v/v)
Bromomethane	ND	20000	ppb(v/v)
Chloroethane	ND	20000	ppb(v/v)
Trichlorofluoromethane	ND	20000	ppb(v/v)
1,1-Dichloroethene	ND	20000	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	20000	ppb(v/v)
Methylene chloride	ND	50000	ppb(v/v)
1,1-Dichloroethane	ND	20000	ppb(v/v)
cis-1,2-Dichloroethene	ND	20000	ppb(v/v)
Chloroform	ND	20000	ppb(v/v)
1,1,1-Trichloroethane	ND	20000	ppb(v/v)
Carbon tetrachloride	ND	20000	ppb(v/v)
Benzene	**1000000**	**20000**	**ppb(v/v)**
1,2-Dichloroethane	ND	20000	ppb(v/v)
Trichloroethene	ND	20000	ppb(v/v)
1,2-Dichloropropane	ND	20000	ppb(v/v)
cis-1,3-Dichloropropene	ND	20000	ppb(v/v)
Toluene	ND	20000	ppb(v/v)
trans-1,3-Dichloropropene	ND	20000	ppb(v/v)
1,1,2-Trichloroethane	ND	20000	ppb(v/v)
Tetrachloroethene	ND	20000	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	20000	ppb(v/v)
Chlorobenzene	ND	20000	ppb(v/v)
Ethylbenzene	ND	20000	ppb(v/v)
m-Xylene & p-Xylene	ND	20000	ppb(v/v)
o-Xylene	ND	20000	ppb(v/v)
Styrene	ND	20000	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	20000	ppb(v/v)
1,3,5-Trimethylbenzene	ND	20000	ppb(v/v)
1,2,4-Trimethylbenzene	ND	20000	ppb(v/v)
1,3-Dichlorobenzene	ND	20000	ppb(v/v)
1,4-Dichlorobenzene	ND	20000	ppb(v/v)
1,2-Dichlorobenzene	ND	20000	ppb(v/v)
Benzyl chloride	ND	40000	ppb(v/v)

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TestAmerica Savannah

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

GC/MS Volatiles

Lot-Sample #...: H0G070420-001 **Work Order #...:** L3VJW1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,2,4-Trichloro-benzene	ND	100000	ppb(v/v)
Hexachlorobutadiene	ND	100000	ppb(v/v)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	95	(60 - 140)

TestAmerica Savannah

Client Sample ID: WGK-BIGMO-TMX-INF-A

GC/MS Volatiles

Lot-Sample #...: H0G070420-002 **Work Order #...:** L3VJX1AA **Matrix.....:** AIR
Date Sampled...: 07/06/10 **Date Received..:** 07/07/10
Prep Date.....: 07/20/10 **Analysis Date..:** 07/21/10
Prep Batch #...: 0202161
Dilution Factor: 31535.3 **Method.....:** EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	6300	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	6300	ppb(v/v)
Chloromethane	ND	16000	ppb(v/v)
Vinyl chloride	ND	6300	ppb(v/v)
Bromomethane	ND	6300	ppb(v/v)
Chloroethane	ND	6300	ppb(v/v)
Trichlorofluoromethane	ND	6300	ppb(v/v)
1,1-Dichloroethene	ND	6300	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	6300	ppb(v/v)
Methylene chloride	ND	16000	ppb(v/v)
1,1-Dichloroethane	ND	6300	ppb(v/v)
cis-1,2-Dichloroethene	ND	6300	ppb(v/v)
Chloroform	ND	6300	ppb(v/v)
1,1,1-Trichloroethane	ND	6300	ppb(v/v)
Carbon tetrachloride	ND	6300	ppb(v/v)
Benzene	**360000**	**6300**	**ppb(v/v)**
1,2-Dichloroethane	ND	6300	ppb(v/v)
Trichloroethene	ND	6300	ppb(v/v)
1,2-Dichloropropane	ND	6300	ppb(v/v)
cis-1,3-Dichloropropene	ND	6300	ppb(v/v)
Toluene	ND	6300	ppb(v/v)
trans-1,3-Dichloropropene	ND	6300	ppb(v/v)
1,1,2-Trichloroethane	ND	6300	ppb(v/v)
Tetrachloroethene	ND	6300	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	6300	ppb(v/v)
Chlorobenzene	ND	6300	ppb(v/v)
Ethylbenzene	ND	6300	ppb(v/v)
m-Xylene & p-Xylene	ND	6300	ppb(v/v)
o-Xylene	ND	6300	ppb(v/v)
Styrene	ND	6300	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	6300	ppb(v/v)
1,3,5-Trimethylbenzene	ND	6300	ppb(v/v)
1,2,4-Trimethylbenzene	ND	6300	ppb(v/v)
1,3-Dichlorobenzene	ND	6300	ppb(v/v)
1,4-Dichlorobenzene	ND	6300	ppb(v/v)
1,2-Dichlorobenzene	ND	6300	ppb(v/v)
Benzyl chloride	ND	13000	ppb(v/v)

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TestAmerica Savannah

Client Sample ID: WGK-BIGMO-TMX-INF-A

GC/MS Volatiles

Lot-Sample #...: H0G070420-002 **Work Order #...:** L3VJX1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,2,4-Trichloro-benzene	ND	32000	ppb(v/v)
Hexachlorobutadiene	ND	32000	ppb(v/v)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	94	(60 - 140)

TestAmerica Savannah

Client Sample ID: WGK-BIGMO-TMX-EFF-A

GC/MS Volatiles

Lot-Sample #...: H0G070420-003 **Work Order #...:** L3VJ11AA **Matrix.....:** AIR
Date Sampled...: 07/06/10 **Date Received..:** 07/07/10
Prep Date.....: 07/20/10 **Analysis Date..:** 07/21/10
Prep Batch #...: 0202161
Dilution Factor: 19.97 **Method.....:** EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	4.0	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	4.0	ppb(v/v)
Chloromethane	ND	10	ppb(v/v)
Vinyl chloride	ND	4.0	ppb(v/v)
Bromomethane	ND	4.0	ppb(v/v)
Chloroethane	ND	4.0	ppb(v/v)
Trichlorofluoromethane	ND	4.0	ppb(v/v)
1,1-Dichloroethene	ND	4.0	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.0	ppb(v/v)
Methylene chloride	**14**	**10**	**ppb(v/v)**
1,1-Dichloroethane	ND	4.0	ppb(v/v)
cis-1,2-Dichloroethene	ND	4.0	ppb(v/v)
Chloroform	ND	4.0	ppb(v/v)
1,1,1-Trichloroethane	ND	4.0	ppb(v/v)
Carbon tetrachloride	ND	4.0	ppb(v/v)
Benzene	**6.7**	**4.0**	**ppb(v/v)**
1,2-Dichloroethane	ND	4.0	ppb(v/v)
Trichloroethene	ND	4.0	ppb(v/v)
1,2-Dichloropropane	ND	4.0	ppb(v/v)
cis-1,3-Dichloropropene	ND	4.0	ppb(v/v)
Toluene	ND	4.0	ppb(v/v)
trans-1,3-Dichloropropene	ND	4.0	ppb(v/v)
1,1,2-Trichloroethane	ND	4.0	ppb(v/v)
Tetrachloroethene	ND	4.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	4.0	ppb(v/v)
Chlorobenzene	ND	4.0	ppb(v/v)
Ethylbenzene	ND	4.0	ppb(v/v)
m-Xylene & p-Xylene	ND	4.0	ppb(v/v)
o-Xylene	ND	4.0	ppb(v/v)
Styrene	ND	4.0	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	4.0	ppb(v/v)
1,3,5-Trimethylbenzene	ND	4.0	ppb(v/v)
1,2,4-Trimethylbenzene	ND	4.0	ppb(v/v)
1,3-Dichlorobenzene	ND	4.0	ppb(v/v)
1,4-Dichlorobenzene	ND	4.0	ppb(v/v)
1,2-Dichlorobenzene	ND	4.0	ppb(v/v)
Benzyl chloride	ND	8.0	ppb(v/v)

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TestAmerica Savannah

Client Sample ID: WGK-BIGMO-TMX-EFF-A

GC/MS Volatiles

Lot-Sample #...: H0G070420-003 **Work Order #...:** L3VJ11AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,2,4-Trichloro-benzene	ND	20	ppb(v/v)
Hexachlorobutadiene	ND	20	ppb(v/v)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	96	(60 - 140)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H0G070420 **Work Order #...:** L4F7L1AA **Matrix.....:** AIR
MB Lot-Sample #: H0G210000-161

Prep Date.....: 07/20/10
Prep Batch #...: 0202161

Analysis Date..: 07/20/10
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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H0G070420 **Work Order #...:** L4F7L1AA **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	97	(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 #...: H0G070420 Work Order #...: L4F7L1AC Matrix.....: AIR
LCS Lot-Sample#: H0G210000-161
Prep Date.....: 07/20/10 Analysis Date..: 07/20/10
Prep Batch #...: 0202161
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	100	(60 - 140)	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	103	(60 - 140)	EPA-2 TO-15
Chloromethane	103	(60 - 140)	EPA-2 TO-15
Vinyl chloride	101	(70 - 130)	EPA-2 TO-15
Bromomethane	98	(70 - 130)	EPA-2 TO-15
Chloroethane	98	(70 - 130)	EPA-2 TO-15
Trichlorofluoromethane	97	(60 - 140)	EPA-2 TO-15
1,1-Dichloroethene	100	(70 - 130)	EPA-2 TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	99	(70 - 130)	EPA-2 TO-15
Methylene chloride	94	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethane	96	(70 - 130)	EPA-2 TO-15
cis-1,2-Dichloroethene	97	(70 - 130)	EPA-2 TO-15
Chloroform	94	(70 - 130)	EPA-2 TO-15
1,1,1-Trichloroethane	95	(70 - 130)	EPA-2 TO-15
Carbon tetrachloride	107	(70 - 130)	EPA-2 TO-15
Benzene	100	(70 - 130)	EPA-2 TO-15
1,2-Dichloroethane	96	(70 - 130)	EPA-2 TO-15
Trichloroethene	100	(70 - 130)	EPA-2 TO-15
1,2-Dichloropropane	103	(70 - 130)	EPA-2 TO-15
cis-1,3-Dichloropropene	101	(70 - 130)	EPA-2 TO-15
Toluene	100	(70 - 130)	EPA-2 TO-15
trans-1,3-Dichloropropene	99	(70 - 130)	EPA-2 TO-15
1,1,2-Trichloroethane	104	(70 - 130)	EPA-2 TO-15
Tetrachloroethene	97	(70 - 130)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	100	(70 - 130)	EPA-2 TO-15
Chlorobenzene	102	(70 - 130)	EPA-2 TO-15
Ethylbenzene	107	(70 - 130)	EPA-2 TO-15
m-Xylene & p-Xylene	110	(70 - 130)	EPA-2 TO-15
o-Xylene	113	(70 - 130)	EPA-2 TO-15
Styrene	117	(70 - 130)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	117	(70 - 130)	EPA-2 TO-15
1,3,5-Trimethylbenzene	120	(70 - 130)	EPA-2 TO-15

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H0G070420 **Work Order #...:** L4F7L1AC **Matrix.....:** AIR
LCS Lot-Sample#: H0G210000-161

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2,4-Trimethylbenzene	**118**	**(70 - 130)**	**EPA-2 TO-15**
1,3-Dichlorobenzene	**108**	**(70 - 130)**	**EPA-2 TO-15**
1,4-Dichlorobenzene	**107**	**(70 - 130)**	**EPA-2 TO-15**
1,2-Dichlorobenzene	**109**	**(70 - 130)**	**EPA-2 TO-15**
Benzyl chloride	**107**	**(70 - 130)**	**EPA-2 TO-15**
1,2,4-Trichloro-benzene	**100**	**(60 - 140)**	**EPA-2 TO-15**
Hexachlorobutadiene	**102**	**(60 - 140)**	**EPA-2 TO-15**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	107	(60 - 140)

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/MS Volatiles

Client Lot #...: H0G070420 Work Order #...: L4F7L1AC Matrix.....: AIR
LCS Lot-Sample#: H0G210000-161
Prep Date.....: 07/20/10 Analysis Date..: 07/20/10
Prep Batch #...: 0202161
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Dichlorodifluoromethane	5.00	5.00	ppb(v/v)	100	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.00	5.14	ppb(v/v)	103	EPA-2 TO-15
Chloromethane	5.00	5.17	ppb(v/v)	103	EPA-2 TO-15
Vinyl chloride	5.00	5.03	ppb(v/v)	101	EPA-2 TO-15
Bromomethane	5.00	4.88	ppb(v/v)	98	EPA-2 TO-15
Chloroethane	5.00	4.89	ppb(v/v)	98	EPA-2 TO-15
Trichlorofluoromethane	5.00	4.83	ppb(v/v)	97	EPA-2 TO-15
1,1-Dichloroethene	5.00	5.02	ppb(v/v)	100	EPA-2 TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	4.96	ppb(v/v)	99	EPA-2 TO-15
Methylene chloride	5.00	4.72	ppb(v/v)	94	EPA-2 TO-15
1,1-Dichloroethane	5.00	4.81	ppb(v/v)	96	EPA-2 TO-15
cis-1,2-Dichloroethene	5.00	4.84	ppb(v/v)	97	EPA-2 TO-15
Chloroform	5.00	4.72	ppb(v/v)	94	EPA-2 TO-15
1,1,1-Trichloroethane	5.00	4.75	ppb(v/v)	95	EPA-2 TO-15
Carbon tetrachloride	5.00	5.35	ppb(v/v)	107	EPA-2 TO-15
Benzene	5.00	5.01	ppb(v/v)	100	EPA-2 TO-15
1,2-Dichloroethane	5.00	4.79	ppb(v/v)	96	EPA-2 TO-15
Trichloroethene	5.00	5.00	ppb(v/v)	100	EPA-2 TO-15
1,2-Dichloropropane	5.00	5.16	ppb(v/v)	103	EPA-2 TO-15
cis-1,3-Dichloropropene	5.00	5.04	ppb(v/v)	101	EPA-2 TO-15
Toluene	5.00	5.00	ppb(v/v)	100	EPA-2 TO-15
trans-1,3-Dichloropropene	5.00	4.93	ppb(v/v)	99	EPA-2 TO-15
1,1,2-Trichloroethane	5.00	5.18	ppb(v/v)	104	EPA-2 TO-15
Tetrachloroethene	5.00	4.86	ppb(v/v)	97	EPA-2 TO-15
1,2-Dibromoethane (EDB)	5.00	5.00	ppb(v/v)	100	EPA-2 TO-15
Chlorobenzene	5.00	5.12	ppb(v/v)	102	EPA-2 TO-15
Ethylbenzene	5.00	5.36	ppb(v/v)	107	EPA-2 TO-15
m-Xylene & p-Xylene	10.0	11.0	ppb(v/v)	110	EPA-2 TO-15
o-Xylene	5.00	5.63	ppb(v/v)	113	EPA-2 TO-15
Styrene	5.00	5.87	ppb(v/v)	117	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	5.00	5.87	ppb(v/v)	117	EPA-2 TO-15
1,3,5-Trimethylbenzene	5.00	6.02	ppb(v/v)	120	EPA-2 TO-15

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H0G070420 **Work Order #...:** L4F7L1AC **Matrix.....:** AIR
LCS Lot-Sample#: H0G210000-161

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2,4-Trimethylbenzene	**5.00**	**5.91**	**ppb(v/v)**	**118**	**EPA-2 TO-15**
1,3-Dichlorobenzene	**5.00**	**5.39**	**ppb(v/v)**	**108**	**EPA-2 TO-15**
1,4-Dichlorobenzene	**5.00**	**5.34**	**ppb(v/v)**	**107**	**EPA-2 TO-15**
1,2-Dichlorobenzene	**5.00**	**5.45**	**ppb(v/v)**	**109**	**EPA-2 TO-15**
Benzyl chloride	**5.00**	**5.34**	**ppb(v/v)**	**107**	**EPA-2 TO-15**
1,2,4-Trichloro-benzene	**5.00**	**5.00**	**ppb(v/v)**	**100**	**EPA-2 TO-15**
Hexachlorobutadiene	**5.00**	**5.08**	**ppb(v/v)**	**102**	**EPA-2 TO-15**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	107	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

170607042O

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Reggie Gardner - PSC	Lab PM: Lidya Gulizia	Carrier Tracking No(s): FEDEX 8703 2907 0697	COC No:
Client Contact: William Johnson	Phone: 618-407-3811	E-Mail: rgardner@pscnow.com		Page: 1 of 1
Company: Solutia Inc.			2 Boxes	TA Job #:

Address: 575 Maryville Centre Dr.	Due Date Requested:	Analysis Requested
City: Saint Louis	TAT Requested (days): Standard	
State, Zip: Missouri 63141	PO #:	
Phone: 603-778-1100 x234	WO #:	
Email: crawford@xdd-llc.com	Project #: Solutia - Sauget BIG MO	
Project Name: XDD - Solutia BIG MO	SSOW#:	
Site: Sauget, IL		

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	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:						
WGK-BIGMO-SVE-Line A-V	7/6/2010	1510	G	A			x		
WGK-BIGMO-TMX-INF-A	7/6/2010	1505	G	A			x		2 boxes
WGK-BIGMO-TMX-EFF-A	7/6/2010	1500	G	A			x		no custody seals rec. at ambient temp. Fed ex # 8703 2907 0697

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: 7/6/10 @ 1900	Company: PSC	Received by:	Date/Time: 7/7/10 10:00	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: 170D70420

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:	4a.
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 = _____	
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: David Nyder Date: 7/7/10

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Test America - Knoxville - Air Canister Dilution Log

Lot Number: *H0G070420*

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
JDF 7-8-10	1340	28.93	L3VJW									(2) +31.2			04392	2	+30.4	8729
↓	↓	↓	L3VJX												0177	↓	+30.6	8732
↓	↓	↓	L3VJ1												~~JDF 7-8-10 0818~~ 0181	300	+0.9	↓