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ANALYTICAL REPORT

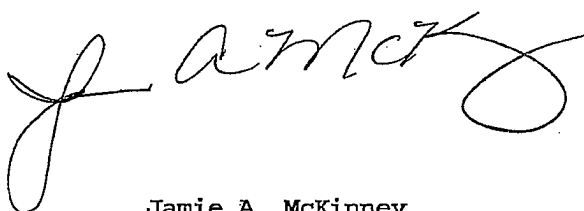
Honeywell - South Bend

Lot #: H1B100401

Steven Murray

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TESTAMERICA LABORATORIES, INC.



Jamie A. McKinney
Project Manager

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11/2/11 TestAmerica (1) 102011

February 15, 2011

EXECUTIVE SUMMARY - Detection Highlights

H1B100401

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
P-3026R-0211 02/03/11 14:25 001				
Benzene	0.35	0.080	ppb (v/v)	EPA-2 TO-15
sec-Butylbenzene	0.71	0.16	ppb (v/v)	EPA-2 TO-15
Isopropylbenzene	0.60	0.16	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	1.9	0.16	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	0.089	0.080	ppb (v/v)	EPA-2 TO-15
SS-3002L-0211 02/04/11 10:52 002				
Benzene	0.35	0.080	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	1.0	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.060	0.040	ppb (v/v)	EPA-2 TO-15
B-3002L-0211 02/04/11 10:51 003				
Benzene	0.33	0.080	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	0.11	0.080	ppb (v/v)	EPA-2 TO-15
P-3002L-0211 02/04/11 10:50 004				
Benzene	0.31	0.080	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	0.20	0.080	ppb (v/v)	EPA-2 TO-15
BG-5-0211 02/04/11 11:00 005				
Benzene	0.21	0.080	ppb (v/v)	EPA-2 TO-15
BG-6-0211 02/04/11 11:01 006				
Benzene	0.23	0.080	ppb (v/v)	EPA-2 TO-15
B-719G-0211 02/02/11 16:00 007				
Benzene	0.20	0.080	ppb (v/v)	EPA-2 TO-15
B-3010R-0211 02/02/11 17:16 008				
Benzene	0.31	0.080	ppb (v/v)	EPA-2 TO-15
P-3010R-0211 02/02/11 17:26 009				
Benzene	0.30	0.080	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

H1B100401

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
SS-3010R-0211 02/02/11 17:13 010				
Benzene	0.30	0.080	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	0.15	0.080	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	0.21	0.16	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.39	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	0.10	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.14	0.040	ppb (v/v)	EPA-2 TO-15
P-719G-0211 02/02/11 16:00 011				
Benzene	0.20	0.080	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	0.20	0.080	ppb (v/v)	EPA-2 TO-15
SS-719G-0211 02/02/11 16:01 012				
Benzene	0.30	0.080	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.39	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	0.25	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.36	0.040	ppb (v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

H1B100401

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
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

H1B100401

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MD8T5	001	P-3026R-0211	02/03/11	14:25
MD8T7	002	SS-3002L-0211	02/04/11	10:52
MD8T8	003	B-3002L-0211	02/04/11	10:51
MD8T9	004	P-3002L-0211	02/04/11	10:50
MD8VA	005	BG-5-0211	02/04/11	11:00
MD8VD	006	BG-6-0211	02/04/11	11:01
MD8VE	007	B-719G-0211	02/02/11	16:00
MD8VF	008	B-3010R-0211	02/02/11	17:16
MD8VG	009	P-3010R-0211	02/02/11	17:26
MD8VJ	010	SS-3010R-0211	02/02/11	17:13
MD8VK	011	P-719G-0211	02/02/11	16:00
MD8VM	012	SS-719G-0211	02/02/11	16:01

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 H1B100401

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

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.

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.

MACTEC Engineering and Consulting Inc

Client Sample ID: P-3026R-0211

GC/MS Volatiles

Lot-Sample #....: H1B100401-001 Work Order #....: MD8T51AA Matrix.....: AIR
 Date Sampled....: 02/03/11 14:25 Date Received...: 02/08/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	0.35	0.080	ppb (v/v)
sec-Butylbenzene	0.71	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	0.60	0.16	ppb (v/v)
n-Propylbenzene	1.9	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	0.089	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	120	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: SS-3002L-0211

GC/MS Volatiles

Lot-Sample #....: H1B100401-002 Work Order #....: MD8T71AA Matrix.....: AIR
 Date Sampled....: 02/04/11 10:52 Date Received...: 02/08/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.35	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	1.0	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	0.060	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	114	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: B-3002L-0211

GC/MS Volatiles

Lot-Sample #....: H1B100401-003 Work Order #....: MD8T81AA Matrix.....: AIR
 Date Sampled....: 02/04/11 10:51 Date Received...: 02/08/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.33	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	0.11	0.080	ppb (v/v)

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	111	(60 - 140)

MACTEC Engineering and Consulting Inc

Client Sample ID: P-3002L-0211

GC/MS Volatiles

Lot-Sample #...: H1B100401-004 Work Order #...: MD8T91AA Matrix.....: AIR
 Date Sampled...: 02/04/11 10:50 Date Received...: 02/08/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #...: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Benzene	0.31	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	0.20	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	112	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: BG-5-0211

GC/MS Volatiles

Lot-Sample #...: H1B100401-005 Work Order #...: MD8VA1AA Matrix.....: AIR
 Date Sampled...: 02/04/11 11:00 Date Received...: 02/08/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #...: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.21	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	109	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: BG-6-0211

GC/MS Volatiles

Lot-Sample #...: H1B100401-006 Work Order #...: MD8VD1AA Matrix.....: AIR
 Date Sampled...: 02/04/11 11:01 Date Received...: 02/08/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #...: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	0.23	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	110	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: B-719G-0211

GC/MS Volatiles

Lot-Sample #....: H1B100401-007 Work Order #....: MD8VE1AA Matrix.....: AIR
 Date Sampled....: 02/02/11 16:00 Date Received...: 02/08/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	0.20	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	112	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: B-3010R-0211

GC/MS Volatiles

Lot-Sample #...: H1B100401-008 Work Order #...: MD8VF1AA Matrix.....: AIR
 Date Sampled...: 02/02/11 17:16 Date Received...: 02/08/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #...: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.31	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	111	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: P-3010R-0211

GC/MS Volatiles

Lot-Sample #....: H1B100401-009 Work Order #....: MD8VG1AA Matrix.....: AIR
 Date Sampled....: 02/02/11 17:26 Date Received...: 02/08/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
Benzene	0.30	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	111	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: SS-3010R-0211

GC/MS Volatiles

Lot-Sample #....: H1B100401-010 Work Order #....: MD8VJ1AA Matrix.....: AIR
 Date Sampled...: 02/02/11 17:13 Date Received...: 02/08/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.30	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	0.15	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	0.21	0.16	ppb (v/v)
Tetrachloroethene	0.39	0.080	ppb (v/v)
1,1,1-Trichloroethane	0.10	0.080	ppb (v/v)
Trichloroethene	0.14	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	117	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: P-719G-0211

GC/MS Volatiles

Lot-Sample #....: H1B100401-011 Work Order #....: MD8VK1AA Matrix.....: AIR
 Date Sampled....: 02/02/11 16:00 Date Received...: 02/08/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.20	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	0.20	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	111	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: SS-719G-0211

GC/MS Volatiles

Lot-Sample #...: H1B100401-012 Work Order #...: MD8VM1AA Matrix.....: AIR
 Date Sampled...: 02/02/11 16:01 Date Received...: 02/08/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #...: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
Benzene	0.30	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	0.39	0.080	ppb (v/v)
1,1,1-Trichloroethane	0.25	0.080	ppb (v/v)
Trichloroethene	0.36	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	113	(60 - 140)	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H1B100401
 MB Lot-Sample #: H1B140000-116

Work Order #...: MEDV91AA

Matrix.....: AIR

Analysis Date...: 02/11/11
 Dilution Factor: 1

Prep Date.....: 02/11/11
 Prep Batch #...: 1045116

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Benzene	ND	0.080	ppb (v/v)	EPA-2 TO-15
sec-Butylbenzene	ND	0.16	ppb (v/v)	EPA-2 TO-15
tert-Butylbenzene	ND	0.20	ppb (v/v)	EPA-2 TO-15
Chloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	0.080	ppb (v/v)	EPA-2 TO-15
Isopropylbenzene	ND	0.16	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	ND	0.16	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	ND	0.040	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	ND	0.080	ppb (v/v)	EPA-2 TO-15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
4-Bromofluorobenzene	111	(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 #...: H1B100401 Work Order #...: MEDV91AC Matrix.....: AIR
 LCS Lot-Sample#: H1B140000-116
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #...: 1045116
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Vinyl chloride	102	(70 - 130)	EPA-2 TO-15
Chloroethane	94	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethene	108	(70 - 130)	EPA-2 TO-15
trans-1,2-Dichloroethene	109	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethane	101	(70 - 130)	EPA-2 TO-15
cis-1,2-Dichloroethene	104	(70 - 130)	EPA-2 TO-15
1,1,1-Trichloroethane	108	(70 - 130)	EPA-2 TO-15
1,2-Dichloroethane	93	(70 - 130)	EPA-2 TO-15
Benzene	102	(70 - 130)	EPA-2 TO-15
1,2-Dichloropropane	98	(70 - 130)	EPA-2 TO-15
Trichloroethene	98	(70 - 130)	EPA-2 TO-15
Tetrachloroethene	93	(70 - 130)	EPA-2 TO-15
Isopropylbenzene	106	(70 - 130)	EPA-2 TO-15
n-Propylbenzene	108	(70 - 130)	EPA-2 TO-15
tert-Butylbenzene	103	(70 - 130)	EPA-2 TO-15
sec-Butylbenzene	106	(70 - 130)	EPA-2 TO-15
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene		116	(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 #....: H1B100401 Work Order #...: MEDV91AC Matrix.....: AIR
 LCS Lot-Sample#: H1B140000-116
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #...: 1045116
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Vinyl chloride	5.0	5.1	ppb (v/v)	102	EPA-2 TO-15
Chloroethane	5.0	4.7	ppb (v/v)	94	EPA-2 TO-15
1,1-Dichloroethene	5.0	5.4	ppb (v/v)	108	EPA-2 TO-15
trans-1,2-Dichloroethene	5.0	5.5	ppb (v/v)	109	EPA-2 TO-15
1,1-Dichloroethane	5.0	5.0	ppb (v/v)	101	EPA-2 TO-15
cis-1,2-Dichloroethene	5.0	5.2	ppb (v/v)	104	EPA-2 TO-15
1,1,1-Trichloroethane	5.0	5.4	ppb (v/v)	108	EPA-2 TO-15
1,2-Dichloroethane	5.0	4.7	ppb (v/v)	93	EPA-2 TO-15
Benzene	5.0	5.1	ppb (v/v)	102	EPA-2 TO-15
1,2-Dichloropropane	5.0	4.9	ppb (v/v)	98	EPA-2 TO-15
Trichloroethene	5.0	4.9	ppb (v/v)	98	EPA-2 TO-15
Tetrachloroethene	5.0	4.7	ppb (v/v)	93	EPA-2 TO-15
Isopropylbenzene	5.0	5.3	ppb (v/v)	106	EPA-2 TO-15
n-Propylbenzene	5.0	5.4	ppb (v/v)	108	EPA-2 TO-15
tert-Butylbenzene	5.0	5.2	ppb (v/v)	103	EPA-2 TO-15
sec-Butylbenzene	5.0	5.3	ppb (v/v)	106	EPA-2 TO-15
<u>SURROGATE</u>					
4-Bromofluorobenzene					
			<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	
			116	(60 - 140)	

NOTE (S) :

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

Bold print denotes control parameters

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-684-4315

H18100401
Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

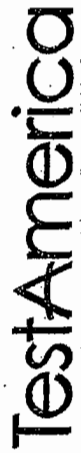
TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: Steve Morley		Sampled By: SGB		1 of 1 COCs	
Company: MACTEC		Phone: 231-922-9050		EPA 25C		Other (Please specify in notes section)	
Address: 411 Hughes Drive		Site Contact: Steve Boyze		EPA 3C		Landfill Gas	
City/State/Zip: Traverse City, MI 49690		TAL Contact: Mark Leeb		TO-14A		Ambient Air	
Phone: 231-922-9050				TO-15		Indoor Air	
FAX: 231-922-9055						Sample Type	
Project Name: Honeywell SB Vapor Intrusion						Other (Please specify in notes section)	
Site/location: South Bend, IN						ASTM D-1946	
PO # 5133286							
Sample Identification		Analysis Turnaround Time		Flow Controller ID		Canister ID	
		Standard (Specify)		Rush (Specify)			
Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	
2/21/11	14:21	14:25	-30	-6.5	K371	0120	X
2/22/11	10:28	10:52	-29	-3.5	K219	6587	X
2/23/11	10:30	10:51	-29.5	-4.5	K122	6605	X
	10:33	10:50	-29	0	K325	04399	X
	10:41	11:00	-30	-4	K309	1007N	X
	10:45	11:01	-29	-4.5	K295	04329	X
Sampled by:		Temperature (Fahrenheit)					
		Ambient					
Start		Interior					
Stop		Ambient					
		Pressure (inches of Hg)					
Start		Interior					
Stop		Ambient					
Special Instructions/QC Requirements & Comments:							
RON TO-15 LIST B CONSTITUENTS (ATTACHED)							
Canisters Shipped by: [Signature]		Date/Time: 2/4/2011 12:00 pm		Capisters Received by: [Signature]		Date/Time: 2/18/11 0940	
Samples Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	

2 Boxes Received @ Ambient CBA
12 COCs, 12 Flows, 2 T-Bars
FolEx 878 873804403616
CBA 21811 Custody Seals
Not present.

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

H18100-01
Canister Samples Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact Information		Project Manager: Steve Murray		Sampled By: SGB		1 of 1 COCs	
Company: MACTEC		Phone: 231-922-9050		EPA 25C		ASTM D-1946	
Address: 41 Hughes Dr.		Site Contact: Steve Boyle		EPA 3C		TO-14A	
City/State/Zip: Traverse City, MI 49696		TAL Contact: Mark Leeb		TO-15		TO-15	
Phone: 231-922-9050							
FAX: 231-922-9055							
Project Name: Honeywell SB Vapor Intrusion		Analysis Turnaround Time					
Site/Location: South Bend, IN		Standard (Specify) X					
PO # 5133286		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
B-719G-0211	2-1-11 → 2-2-11	1515	1600	-29	-5	K115	1349
B-3010R-0211	2-1-11 → 2-2-11	1658	1716	-29.5	-5.5	K128	1362
P-3010R-0211	2-1-11 → 2-2-11	1702	1726	-27	-6.5	K142	1132
SS-3010R-0211	2-1-11 → 2-2-11	1656	1713	-27	-5	K397	2995
P-719G-0211	2-1-11 → 2-2-11	1522	1600	-30	-8.5	K158	1576
SS-719G-0211	2-1-11 → 2-2-11	1511	1601	-29	-5.5	K473	6580
Sampled by:							
Temperature (Fahrenheit)							
Interior							
Ambient							
Start							
Stop							
Pressure (inches of Hg)							
Interior							
Ambient							
Start							
Stop							
Other (Please specify in notes section)							
Landfill Gas							
Soil Gas							
Ambient Air							
Indoor Air							
Sample Type							
Other (Please specify in notes section)							

Special Instructions/QC Requirements & Comments:
 RUN TO-15 LIST B CONSTITUENTS (ATTACHED)

Canisters Shipped by: Steve Boyle	Date/Time: 2/3/11 1617	Canisters Received by: Gunnery Adams	Date/Time: 2/8/11 940
Samples Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: H1810401

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> 1a Do not match COC <input type="checkbox"/> 1b Incomplete information <input type="checkbox"/> 1c Marking smeared <input type="checkbox"/> 1d Label torn <input type="checkbox"/> 1e No label <input type="checkbox"/> 1f COC not received <input type="checkbox"/> 1g Other:	1a P-3026 B-0211 Chain Says 1425 Stop Time. Tag Says 1424 Stop Time. 4a
2. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C)			<input checked="" type="checkbox"/>	<input type="checkbox"/> 2a Temp Blank = _____ <input type="checkbox"/> 2b Cooler Temp = _____ <input type="checkbox"/> 2c Cooling initiated for recently collected samples, ice present. <input type="checkbox"/> 3a Sample preservative = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			<input checked="" type="checkbox"/>	<input type="checkbox"/> 4a Not present <input type="checkbox"/> 4b Not intact <input type="checkbox"/> 4c Other: _____	
4. Were custody seals present/intact on cooler and/or containers?		<input checked="" type="checkbox"/>		<input type="checkbox"/> 5a Samples received-not on COC <input type="checkbox"/> 5b Samples not received-on COC <input type="checkbox"/> 6a Leaking <input type="checkbox"/> 6b Broken <input type="checkbox"/> 7a Headspace (VOA only) <input type="checkbox"/> 8a Improper container	
5. Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 9a Could not be determined due to matrix interference <input type="checkbox"/> 10a Holding time expired <input type="checkbox"/> Incomplete information If no, was pH adjusted to pH 7 - 9 with sulfuric acid?	
6. Were all of the sample containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 13a Leaking <input type="checkbox"/> 13b Other: _____	
7. Were VOA samples received without headspace?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 14a Not relinquished <input type="checkbox"/> 15a Incomplete information <input type="checkbox"/> 15a Incomplete information <input type="checkbox"/> 15a Incomplete information	
8. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
9. Did you check for residual chlorine, if necessary?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
10. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
11. For rad samples, was sample activity info. provided?					
12. For 1613B water samples is pH<9?					
13. Are the shipping containers intact?	<input checked="" type="checkbox"/>				
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>				
15. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>				
16. Is the matrix of the samples noted?	<input checked="" type="checkbox"/>				
17. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>				
18. Is the client and project name/# identified?	<input checked="" type="checkbox"/>				
19. Was the sampler identified on the COC?	<input checked="" type="checkbox"/>				
Quote #: <u>7552X</u> PM Instructions: <u>NA</u>					

Sample Receiving Associate: *Edwina Adkins* Date: 2/8/11 QA026R22.doc, 012811

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

Lot Number: HIB100401

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. Pf (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 2-10-11	15A	29.02	MD8T5	6668 6120	-2.8													9019	
			MD8T7	6587	-2.5													4	
			MD8T8	6605	-3.2													8984	
			MD8T9	04399	+0.3													9019	
			MD8VA	1007N	-0.8													8984	
			MD8VD	04329	-3.1													9019	
			MD8VE	1349	-2.9													9037	
			MD8VF	1362	-3.9													9022	
			MD8VG	1132	-6.5													9028	
			MD8VJ	2995	-7.5													9039	
			MD8VK	1516	-4.9													4	
			MD8VM	6580	-4.5													9047	

Original Chain of Custody Documentation

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

H18100401
Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact Information		Project Manager: <u>Steve Murray</u>		Sampled By: <u>SGB</u>		1 of 1 COCs							
Company: <u>MAC-TEC</u>		Phone: <u>231-922-9050</u>		EPA 25C		Other (Please specify in notes section)							
Address: <u>41 Hughes Drive</u>		Site Contact: <u>Steve Byrne</u>		EPA 3C		Soil Gas							
City/State/Zip: <u>Traverse City, MI 49696</u>		TAL Contact: <u>Mark Loeb</u>		TO-14A		Ambient Air							
Phone: <u>231-922-9050</u>				TO-15		Indoor Air							
FAX: <u>231-922-9055</u>						Sample Type							
Project Name: <u>Henningswell SB Vapor Intrusion</u>		Analysis Turnaround Time				Other (Please specify in notes section)							
Site/location: <u>South Bend, IN</u>		Standard (Specify)				ASTM D-1946							
PO # <u>5133286</u>		Rush (Specify)				Landfill Gas							
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	Other (Please specify in notes section)	Other (Please specify in notes section)
<u>P-3026R-0211</u>	<u>2/2/11</u>	<u>14:21</u>	<u>14:25</u>	<u>-30</u>	<u>-6.5</u>	<u>K371</u>	<u>0120</u>	X					
<u>SS-3002L-0211</u>	<u>2/3/11</u>	<u>10:28</u>	<u>10:52</u>	<u>-29</u>	<u>-3.5</u>	<u>K219</u>	<u>6587</u>	X					
<u>B-3002L-0211</u>		<u>10:30</u>	<u>10:51</u>	<u>-29.5</u>	<u>-4.5</u>	<u>K122</u>	<u>6605</u>	X					
<u>P-3002L-0211</u>		<u>10:33</u>	<u>10:50</u>	<u>-29</u>	<u>0</u>	<u>K325</u>	<u>04399</u>	X					
<u>BG-5-0211</u>		<u>10:41</u>	<u>11:00</u>	<u>-30</u>	<u>-4</u>	<u>K309</u>	<u>1007N</u>	X					
<u>BG-6-0211</u>		<u>10:45</u>	<u>11:01</u>	<u>-29</u>	<u>-4.5</u>	<u>K295</u>	<u>04329</u>	X					
Sampled by:													<u>2 Boxes Received @ Ambient CBA</u>
Interior													<u>12 Cans, 12 Flows, 2 T-Bars</u>
Start													<u>FedEx 878 873804403616</u>
Stop													<u>CBA 21811 Custody Seals</u>
Pressure (inches of Hg)													<u>NOT PRESENT.</u>
Interior													
Start													
Stop													

Special Instructions/QC Requirements & Comments:

RON TO-15 LIST B CONSTITUENTS (ATTACHED)

Canisters Shipped by:	Date/Time:	Canisters Received by:	Date/Time:
<u>[Signature]</u>	<u>2/4/2011 12:00 pm</u>	<u>[Signature]</u>	<u>2/18/11 0940</u>
Samples Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

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

Client Contact Information		Project Manager: Steve Murray		Sampled By: SGB		1 of 1 COCs														
Company: MACTEC		Phone: 231-922-9050		EPA 3C		EPA 25C														
Address: 41 Hughes Dr.		Site Contact: Steve Boyze		TO-14A		TO-15														
City/State/Zip: Traverse City, MI 49686		TAL Contact: Mark Loeb		TO-15		TO-15														
Phone: 231-922-9050				TO-15		TO-15														
FAX: 231-922-9055				TO-15		TO-15														
Project Name: Honeywell SB Vapor Intrusion		Analysis Turnaround Time		TO-15		TO-15														
Site/location: South Bend, IN		Standard (Specify) X		TO-15		TO-15														
PO # 5133286		Rush (Specify)		TO-15		TO-15														
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)	
																				Temperature (Fahrenheit)
B-719G-0211	2-1-11 → 2-2-11	1515	1600	-29	-5	K115	1349	X												
B-3010R-0211	2-1-11 → 2-2-11	1658	1716	-29.5	-5.5	K128	1362	X												
P-3010R-0211	2-1-11 → 2-2-11	1702	1726	-27	-6.5	K142	1132	X												
SS-3010R-0211	2-1-11 → 2-2-11	1656	1713	-27	-5	K397	2995	X												
P-719G-0211	2-1-11 → 2-2-11	1522	1600	-30	-8.5	K158	1516	X												
SS-719G-0211	2-1-11 → 2-2-11	1511	1601	-29	-5.5	K473	6580	X												
Sampled by:		Interior		Ambient		Temperature (Fahrenheit)														
Start		Interior		Ambient		Pressure (inches of Hg)														
Stop		Interior		Ambient		Start														
Stop		Interior		Ambient		Stop														
Special Instructions/QC Requirements & Comments:																				
RUN TO-15 LIST B CONSTITUENTS (ATTACHED)																				
Canister Shipped by: Steve Murray		Date/Time: 2/3/11 1617		Canisters Received by: Steve Murray		Date/Time: 2/8/11 940														
Samples Relinquished by:		Date/Time:		Received by:		Date/Time:														
Relinquished by:		Date/Time:		Received by:		Date/Time:														

H1B100401 Analytical Report	1
Sample Receipt Documentation	22
Total Number of Pages	25

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

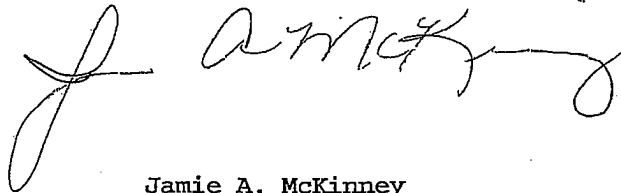
Honeywell - South Bend

Lot #: HLB100402

Steven Murray

Mactec Engineering & Consultan
41 Hughes Drive
Traverse City, MI 49686

TESTAMERICA LABORATORIES, INC.



Jamie A. McKinney
Project Manager

110215 TestAmerica (2) 102011

February 15, 2011

EXECUTIVE SUMMARY - Detection Highlights

HLB100402

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
P-3018L-0211 02/03/11 10:59 001				
Benzene	0.36	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	0.11	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.081	0.040	ppb (v/v)	EPA-2 TO-15
BG-3-0211 02/03/11 11:06 002				
Benzene	0.25	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.058	0.040	ppb (v/v)	EPA-2 TO-15
BG-4-0211 02/03/11 14:36 003				
Benzene	0.28	0.080	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.17	0.080	ppb (v/v)	EPA-2 TO-15
B-3018L-0211 02/03/11 10:53 004				
Benzene	0.41	0.080	ppb (v/v)	EPA-2 TO-15
SS-3018L-0211 02/03/11 10:53 005				
Benzene	0.57	0.080	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	0.17	0.16	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.36	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.065	0.040	ppb (v/v)	EPA-2 TO-15
SS-3026R-0211 02/03/11 14:26 006				
Benzene	0.22	0.080	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	0.23	0.16	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.87	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	1.2	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.044	0.040	ppb (v/v)	EPA-2 TO-15
SS-3006L-0211 02/02/11 11:58 007				
Benzene	0.60	0.080	ppb (v/v)	EPA-2 TO-15
Isopropylbenzene	0.16	0.16	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	0.26	0.16	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.46	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	0.13	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.13	0.040	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

HLB100402

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
B-3006L-0211 02/02/11 11:56 008				
Benzene	1.9	0.080	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	0.093	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.067	0.040	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	0.084	0.080	ppb (v/v)	EPA-2 TO-15
P-3006L-0211 02/02/11 12:00 009				
Benzene	2.1	0.080	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	0.10	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.078	0.040	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	0.11	0.080	ppb (v/v)	EPA-2 TO-15
BG-1-0211 02/02/11 13:20 010				
Benzene	0.19	0.080	ppb (v/v)	EPA-2 TO-15
BG-2-0211 02/02/11 17:36 011				
Benzene	0.17	0.080	ppb (v/v)	EPA-2 TO-15
B-3026R-0211 02/03/11 14:25 012				
Benzene	0.28	0.080	ppb (v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

HLB100402

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
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

H1B100402

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MD8V0	001	P-3018L-0211	02/03/11	10:59
MD8V3	002	BG-3-0211	02/03/11	11:06
MD8V4	003	BG-4-0211	02/03/11	14:36
MD8V5	004	B-3018L-0211	02/03/11	10:53
MD8V6	005	SS-3018L-0211	02/03/11	10:53
MD8V7	006	SS-3026R-0211	02/03/11	14:26
MD8V8	007	SS-3006L-0211	02/02/11	11:58
MD8V9	008	B-3006L-0211	02/02/11	11:56
MD8WA	009	P-3006L-0211	02/02/11	12:00
MD8WC	010	BG-1-0211	02/02/11	13:20
MD8WD	011	BG-2-0211	02/02/11	17:36
MD8WE	012	B-3026R-0211	02/03/11	14:25

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 H1B100402

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

There were no problems with the condition of the samples received.

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.

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.

MACTEC Engineering and Consulting Inc

Client Sample ID: P-3018L-0211

GC/MS Volatiles

Lot-Sample #....: H1B100402-001 Work Order #....: MD8V01AA Matrix.....: AIR
 Date Sampled....: 02/03/11 10:59 Date Received...: 02/09/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.36	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	0.11	0.080	ppb (v/v)
Trichloroethene	0.081	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	111	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: BG-3-0211

GC/MS Volatiles

Lot-Sample #....: H1B100402-002 Work Order #....: MD8V31AA Matrix.....: AIR
 Date Sampled....: 02/03/11 11:06 Date Received...: 02/09/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.25	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	0.058	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	109	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: BG-4-0211

GC/MS Volatiles

Lot-Sample #...: H1B100402-003 Work Order #...: MD8V41AA Matrix.....: AIR
 Date Sampled...: 02/03/11 14:36 Date Received...: 02/09/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #...: 1045116
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.28	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	0.17	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	109	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: B-3018L-0211

GC/MS Volatiles

Lot-Sample #....: H1B100402-004 Work Order #....: MD8V51AA Matrix.....: AIR
 Date Sampled....: 02/03/11 10:53 Date Received...: 02/09/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045118
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	0.41	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
4-Bromofluorobenzene	97	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: SS-3018L-0211

GC/MS Volatiles

Lot-Sample #....: H1B100402-005 Work Order #....: MD8V61AA Matrix.....: AIR
 Date Sampled....: 02/03/11 10:53 Date Received...: 02/09/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045118
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	0.57	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	0.17	0.16	ppb (v/v)
Tetrachloroethene	0.36	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	0.065	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	100	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: SS-3026R-0211

GC/MS Volatiles

Lot-Sample #....: H1B100402-006 Work Order #....: MD8V71AA Matrix.....: AIR
 Date Sampled....: 02/03/11 14:26 Date Received...: 02/09/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045118
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	0.22	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	0.23	0.16	ppb (v/v)
Tetrachloroethene	0.87	0.080	ppb (v/v)
1,1,1-Trichloroethane	1.2	0.080	ppb (v/v)
Trichloroethene	0.044	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
4-Bromofluorobenzene	98	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: SS-3006L-0211

GC/MS Volatiles

Lot-Sample #...: H1B100402-007 Work Order #...: MD8V81AA Matrix.....: AIR
 Date Sampled...: 02/02/11 11:58 Date Received...: 02/09/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #...: 1045118
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.60	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	0.16	0.16	ppb (v/v)
n-Propylbenzene	0.26	0.16	ppb (v/v)
Tetrachloroethene	0.46	0.080	ppb (v/v)
1,1,1-Trichloroethane	0.13	0.080	ppb (v/v)
Trichloroethene	0.13	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	99	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: B-3006L-0211

GC/MS Volatiles

Lot-Sample #....: H1B100402-008 Work Order #....: MD8V91AA Matrix.....: AIR
 Date Sampled....: 02/02/11 11:56 Date Received...: 02/09/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045118
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	1.9	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	0.093	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	0.067	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	0.084	0.080	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	98	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: P-3006L-0211

GC/MS Volatiles

Lot-Sample #....: H1B100402-009 Work Order #....: MD8WA1AA Matrix.....: AIR
 Date Sampled....: 02/02/11 12:00 Date Received...: 02/09/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045118
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	2.1	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	0.10	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	0.078	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	0.11	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	97	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: BG-1-0211

GC/MS Volatiles

Lot-Sample #...: H1B100402-010 Work Order #...: MD8WC1AA Matrix.....: AIR
 Date Sampled...: 02/02/11 13:20 Date Received...: 02/09/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #...: 1045118
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.19	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	95	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: BG-2-0211

GC/MS Volatiles

Lot-Sample #....: H1B100402-011 Work Order #....: MD8WD1AA Matrix.....: AIR
 Date Sampled....: 02/02/11 17:36 Date Received...: 02/09/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045118
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.17	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
<u>SURROGATE</u>			
4-Bromofluorobenzene	97	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: B-3026R-0211

GC/MS Volatiles

Lot-Sample #....: H1B100402-012 Work Order #....: MD8WE1AA Matrix.....: AIR
 Date Sampled....: 02/03/11 14:25 Date Received...: 02/09/11
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045118
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.28	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
4-Bromofluorobenzene	98	(60 - 140)	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H1B100402 Work Order #...: MEDV91AA Matrix.....: AIR
 MB Lot-Sample #: H1B140000-116
 Prep Date.....: 02/11/11
 Analysis Date...: 02/11/11 Prep Batch #...: 1045116
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Benzene	ND	0.080	ppb (v/v)	EPA-2 TO-15
sec-Butylbenzene	ND	0.16	ppb (v/v)	EPA-2 TO-15
tert-Butylbenzene	ND	0.20	ppb (v/v)	EPA-2 TO-15
Chloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	0.080	ppb (v/v)	EPA-2 TO-15
Isopropylbenzene	ND	0.16	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	ND	0.16	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	ND	0.040	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	ND	0.080	ppb (v/v)	EPA-2 TO-15
	PERCENT	RECOVERY		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
4-Bromofluorobenzene	111	(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 #....: H1B100402 Work Order #....: MEDV91AC Matrix.....: AIR
 LCS Lot-Sample#: H1B140000-116
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045116
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Vinyl chloride	102	(70 - 130)	EPA-2 TO-15
Chloroethane	94	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethene	108	(70 - 130)	EPA-2 TO-15
trans-1,2-Dichloroethene	109	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethane	101	(70 - 130)	EPA-2 TO-15
cis-1,2-Dichloroethene	104	(70 - 130)	EPA-2 TO-15
1,1,1-Trichloroethane	108	(70 - 130)	EPA-2 TO-15
1,2-Dichloroethane	93	(70 - 130)	EPA-2 TO-15
Benzene	102	(70 - 130)	EPA-2 TO-15
1,2-Dichloropropane	98	(70 - 130)	EPA-2 TO-15
Trichloroethene	98	(70 - 130)	EPA-2 TO-15
Tetrachloroethene	93	(70 - 130)	EPA-2 TO-15
Isopropylbenzene	106	(70 - 130)	EPA-2 TO-15
n-Propylbenzene	108	(70 - 130)	EPA-2 TO-15
tert-Butylbenzene	103	(70 - 130)	EPA-2 TO-15
sec-Butylbenzene	106	(70 - 130)	EPA-2 TO-15

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	116	(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 #....: H1B100402 Work Order #....: MEDV91AC Matrix.....: AIR
 LCS Lot-Sample#: H1B140000-116
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #....: 1045116
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Vinyl chloride	5.0	5.1	ppb (v/v)	102	EPA-2 TO-15
Chloroethane	5.0	4.7	ppb (v/v)	94	EPA-2 TO-15
1,1-Dichloroethene	5.0	5.4	ppb (v/v)	108	EPA-2 TO-15
trans-1,2-Dichloroethene	5.0	5.5	ppb (v/v)	109	EPA-2 TO-15
1,1-Dichloroethane	5.0	5.0	ppb (v/v)	101	EPA-2 TO-15
cis-1,2-Dichloroethene	5.0	5.2	ppb (v/v)	104	EPA-2 TO-15
1,1,1-Trichloroethane	5.0	5.4	ppb (v/v)	108	EPA-2 TO-15
1,2-Dichloroethane	5.0	4.7	ppb (v/v)	93	EPA-2 TO-15
Benzene	5.0	5.1	ppb (v/v)	102	EPA-2 TO-15
1,2-Dichloropropane	5.0	4.9	ppb (v/v)	98	EPA-2 TO-15
Trichloroethene	5.0	4.9	ppb (v/v)	98	EPA-2 TO-15
Tetrachloroethene	5.0	4.7	ppb (v/v)	93	EPA-2 TO-15
Isopropylbenzene	5.0	5.3	ppb (v/v)	106	EPA-2 TO-15
n-Propylbenzene	5.0	5.4	ppb (v/v)	108	EPA-2 TO-15
tert-Butylbenzene	5.0	5.2	ppb (v/v)	103	EPA-2 TO-15
sec-Butylbenzene	5.0	5.3	ppb (v/v)	106	EPA-2 TO-15
<u>SURROGATE</u>		<u>PERCENT</u> <u>RECOVERY</u>		<u>RECOVERY</u> <u>LIMITS</u>	
4-Bromofluorobenzene		116		(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 EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H1B100402 Work Order #...: MEDW21AC Matrix.....: AIR
 LCS Lot-Sample#: H1B140000-118
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #...: 1045118
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Vinyl chloride	82	(70 - 130)	EPA-2 TO-15
Chloroethane	92	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethene	100	(70 - 130)	EPA-2 TO-15
trans-1,2-Dichloroethene	100	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethane	99	(70 - 130)	EPA-2 TO-15
cis-1,2-Dichloroethene	101	(70 - 130)	EPA-2 TO-15
1,1,1-Trichloroethane	109	(70 - 130)	EPA-2 TO-15
1,2-Dichloroethane	94	(70 - 130)	EPA-2 TO-15
Benzene	92	(70 - 130)	EPA-2 TO-15
1,2-Dichloropropane	88	(70 - 130)	EPA-2 TO-15
Trichloroethene	92	(70 - 130)	EPA-2 TO-15
Tetrachloroethene	92	(70 - 130)	EPA-2 TO-15
Isopropylbenzene	103	(70 - 130)	EPA-2 TO-15
n-Propylbenzene	105	(70 - 130)	EPA-2 TO-15
tert-Butylbenzene	102	(70 - 130)	EPA-2 TO-15
sec-Butylbenzene	104	(70 - 130)	EPA-2 TO-15

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	96	(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 #...: H1B100402 Work Order #...: MEDW21AC Matrix.....: AIR
 LCS Lot-Sample#: H1B140000-118
 Prep Date.....: 02/11/11 Analysis Date...: 02/11/11
 Prep Batch #...: 1045118
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Vinyl chloride	5.0	4.1	ppb (v/v)	82	EPA-2 TO-15
Chloroethane	5.0	4.6	ppb (v/v)	92	EPA-2 TO-15
1,1-Dichloroethene	5.0	5.0	ppb (v/v)	100	EPA-2 TO-15
trans-1,2-Dichloroethene	5.0	5.0	ppb (v/v)	100	EPA-2 TO-15
1,1-Dichloroethane	5.0	5.0	ppb (v/v)	99	EPA-2 TO-15
cis-1,2-Dichloroethene	5.0	5.1	ppb (v/v)	101	EPA-2 TO-15
1,1,1-Trichloroethane	5.0	5.4	ppb (v/v)	109	EPA-2 TO-15
1,2-Dichloroethane	5.0	4.7	ppb (v/v)	94	EPA-2 TO-15
Benzene	5.0	4.6	ppb (v/v)	92	EPA-2 TO-15
1,2-Dichloropropane	5.0	4.4	ppb (v/v)	88	EPA-2 TO-15
Trichloroethene	5.0	4.6	ppb (v/v)	92	EPA-2 TO-15
Tetrachloroethene	5.0	4.6	ppb (v/v)	92	EPA-2 TO-15
Isopropylbenzene	5.0	5.1	ppb (v/v)	103	EPA-2 TO-15
n-Propylbenzene	5.0	5.2	ppb (v/v)	105	EPA-2 TO-15
tert-Butylbenzene	5.0	5.1	ppb (v/v)	102	EPA-2 TO-15
sec-Butylbenzene	5.0	5.2	ppb (v/v)	104	EPA-2 TO-15

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene	96	(60 - 140)

NOTE (S) :

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

Bold print denotes control parameters

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

110100402
Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact Information		Project Manager: <u>Steve Murray</u>		Sampled By: <u>SGB</u>		1 of 1 COCs															
Company: <u>MAXTEC</u>		Phone: <u>231-922-9050</u>		EPA 25C		EPA 3C															
Address: <u>41 Hughes Drive</u>		Site Contact: <u>Steve Boyce</u>		TO-14A		TO-15															
City/State/Zip: <u>Traverse City, MI 497096</u>		TAL Contact: <u>Mark Loeb</u>		ASTM D-1946		Other (Please specify in notes section)															
Phone: <u>231-922-9050</u>																					
FAX: <u>231-922-9055</u>																					
Project Name: <u>Honeywell SPS Vapor Intrusion</u>		Analysis Turnaround Time																			
Site/location: <u>South Bend, IN</u>		Standard (Specify) <u>X</u>																			
PO # <u>5133286</u>		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)		
																				Temperature (Fahrenheit)	Pressure (Inches of Hg)
<u>P-3018L-0211</u>	<u>2-2-11</u>	<u>1030</u>	<u>1057</u>	<u>-28.5</u>	<u>-6</u>	<u>K334</u>	<u>0063</u>	<u>X</u>													
<u>BG-3-0211</u>	<u>2-3-11</u>	<u>1040</u>	<u>1106</u>	<u>-28.5</u>	<u>-5.5</u>	<u>K378</u>	<u>12327</u>	<u>X</u>													
<u>BG-4-0211</u>	<u>2-2-11</u>	<u>1430</u>	<u>1436</u>	<u>-30</u>	<u>-6</u>	<u>K390</u>	<u>1536</u>	<u>X</u>													
<u>B-3018L-0211</u>	<u>2-3-11</u>	<u>1027</u>	<u>1053</u>	<u>-28</u>	<u>-5</u>	<u>K379</u>	<u>6385</u>	<u>X</u>													
<u>SS-3018L-0211</u>	<u>2-2-11</u>	<u>1024</u>	<u>1053</u>	<u>-28</u>	<u>-7</u>	<u>K395</u>	<u>6611</u>	<u>X</u>													
<u>SS-3026R-0211</u>	<u>2-3-11</u>	<u>1419</u>	<u>1426</u>	<u>-30</u>	<u>-5.5</u>	<u>K133</u>	<u>6349</u>	<u>X</u>													
Sampled by:		Interior		Ambient		Temperature (Fahrenheit)		Pressure (Inches of Hg)		Ambient		Interior		Start		Stop		Start		Stop	
Special Instructions/QC Requirements & Comments: <u>RUN TO-15 LIST B CONSTITUENTS (ATTACHED)</u>																					
Canisters Shipped by: <u>Steve Boyce</u>		Date/Time: <u>2/3/11 1612</u>		Canisters Received by:		Date/Time: <u>2/9/11 9130</u>															
Samples Relinquished by:		Date/Time:		Relinquished by:		Date/Time:															

Canister Samples Chain of Custody Record

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

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

Client Contact Information		Project Manager: Steve Murray		Sampled By: SGB		1 of 1 COCs	
Company: MACTEC		Phone: 231-922-9050		EPA 25C		Other (Please specify in notes section)	
Address: 41 Hughes Drive		Site Contact: Steve Murray		EPA 3C		Landfill Gas	
City/State/Zip: Knoxville, TN 37916		TAL Contact: Mark Loeb		TO-14A		Soil Gas	
Phone: 231-922-9050				TO-15		Ambient Air	
FAX: 231-922-9050						Indoor Air	
Project Name: Honeywell SB Vapor Intrusion		Analysis Turnaround Time				Sample Type	
Site/Location: South Bundy, TN		Standard (Specify)				Other (Please specify in notes section)	
PO # 5133786		Rush (Specify)				ASTM D-1946	
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
SS-3006L-0211	2-1-11	1130	1158	-30	-7	K478	6957
B-3006L-0211	2-1-11	1138	1156	-31	-5	K148	6654
P-3006L-0211	2-1-11	1141	1200	-29	-5.5	K331	1529
BG-1-0211	2-2-11	1153	1320	-27.5	0	K340	92098
BG-2-0211	2-1-11	1736	1736	-28	-5	K177	1133
B-3026R-0211	2-2-11	1421	1425	-30	-6.5	K371	0120
Sampled by:							
Interior				Temperature (Fahrenheit)			
Ambient							
Start							
Stop							
Interior				Pressure (Inches of Hg)			
Ambient							
Start							
Stop							
Special Instructions/QC Requirements & Comments:							
RUN TO-15 LIST B CONSTITUENTS (ATTACHED)							
Canisters Shipped by: <i>Bump</i>		Date/Time: 2/3/11 1617		Canisters Received by:			
Samples Relinquished by:		Date/Time:		Relinquished by: <i>Mark Loeb</i>		Date/Time: 2/9/11 0930	
Relinquished by:		Date/Time:		Received by:		Date/Time:	

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: 11510042

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

Quote #: 15525 PM Instructions: MA

Sample Receiving Associate: [Signature]

Date: 2/9/11

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

Lot Number: H1B100402

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)	Analys/Date	I / S	Pbarr (in)	Initial Pres. Pf (in)	Final Pres. Pf (psig)	First In-Can Final Pres. Pf (psig)	Second In-Can Final Pres. Pf (psig)	Third In-Can Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
DDF 2-10-11	NA	29.02	MD8V0	0063	-4.1													9019
			MD8V3	12327	-1.7													9017
			MD8V4	1536	-3.5													8989
			MD8V5	6385	-3.5													9014
			MD8V6	6611	-5.7													9040
			MD8V7	6349	-3.6													9013
			MD8V8	6957	-5.7													9047
			MD8V9	6654	-4.3													9033
			MD8WA	1529	-5.8													9044
			MD8WC	92098	+1.2													9047
			MD8WD	1133	-1.8													9038
			MD8WE	0120	-3.9													9003

Original Chain of Custody Documentation

1710100402

TAL-Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921

phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

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

Sampled By: SGB

Project Manager: ~~Mark Loeb~~ Steve Murray

Phone: 231-922-9050

Site Contact: Steve Byrne

TAL Contact: Mark Loeb

Analysis Turnaround Time

Standard (Specify) X

Rush (Specify)

Sample Identification

P-3018L-0211

BG-3-0211

BG-4-0211

B-3018L-0211

SS-3018L-0211

SS-3026R-0211

Sample Date(s)

2-2-11 →

2-3-11 →

2-2-11 →

2-3-11 →

2-2-11 →

2-3-11 →

2-2-11 →

2-3-11 →

Time Start

1030

1040

1430

1027

1024

1419

Time Stop

1057

1106

1436

1053

1053

1426

Canister Vacuum in Field, "Hg (Start)

-28.5

-28.5

-30

-28

-28

-30

Canister Vacuum in Field, "Hg (Stop)

-6

-5.5

-6

-5

-7

-5.5

Flow Controller ID

K334

K378

K390

K379

K395

K133

Canister ID

0063

12327

1536

6385

6611

6349

TO-15

X

X

X

X

X

X

TO-14A

EPA 3C

EPA 25C

ASTM D-1946

Other (Please specify in notes section)

Other (Please specify in notes section)

Landfill Gas

Soil Gas

Ambient Air

Indoor Air

Sample Type

Other (Please specify in notes section)

Other (Please specify in notes section)

1 of 1

COCs

Sampled by:

Interior

Ambient

Pressure (inches of Hg)

Interior

Ambient

Start

Stop

Temperature (Fahrenheit)

Ambient

Pressure (inches of Hg)

Interior

Ambient

Start

Stop

Special Instructions/QC Requirements & Comments:

RUN TO-15 LIST B CONSTITUENTS (ATTACHED)
2BXMS RECEIVED AMBIENT
FED EX # 8717 3476 9475
CUSTOMER SEALS INTACT
12 CANS, 12 FLOWS
TS 29111

Date/Time: 2/3/11 1617

Date/Time: Received by: Steve Murray 2/9/11 9:30

Date/Time: Relinquished by:

Relinquished by:

Canisters shipped by: Steve Byrne

Samples Relinquished by:

Relinquished by:

Canisters Received by:

Received by:

Received by:

B

6-11-100402

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

Canister Samples Chain of Custody Record

TestAmerica

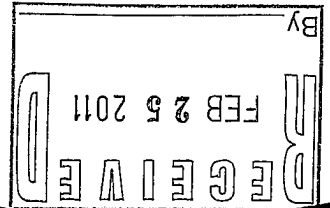
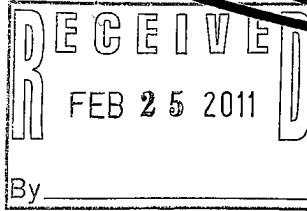
THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact Information		Project Manager: Steve Murray		Sampled By: SGB		1 of 1 COCs															
Company: MACTEC		Phone: 231-922-9050		EPA 3C		EPA 25C															
Address: 41 Hughes Drive		Site Contact: Steve Bunge		TO-14A		ASTM D-1946															
City/State/Zip: Traverse City, MI 49696		TAL Contact: Mark Loeb		TO-15		Other (Please specify in notes section)															
Phone: 231-922-9050						Landfill Gas															
FAX: 231-922-9055						Soil Gas															
Project Name: Honeywell SB Vapor Intrusion		Analysis Turnaround Time				Ambient Air															
Site/location: South Bend, IN		Standard (Specify)				Indoor Air															
PO # 5133786		Rush (Specify)				Sample Type															
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)	Landfill Gas	Soil Gas	Ambient Air	Indoor Air	Sample Type	Other (Please specify in notes section)		
																				Temperature (Fahrenheit)	Pressure (inches of Hg)
SS-3006L-0211	2-1-11	1130	1158	-30	-7	K478	6957	X													
B-3006L-0211	2-1-11	1138	1156	-31	-5	K148	6654	X													
P-3006L-0211	2-1-11	1141	1200	-29	-5.5	K331	1529	X													
BG-1-0211	2-1-11	1153	1320	-29.5	0	K340	92098	X													
BG-2-0211	2-1-11	1736	1736	-28	-5	K177	1133	X													
B-3026R-0211	2-2-11	1421	1425	-30	-6.5	K371	0120	X													
Sampled by:		Interior		Ambient		Temperature (Fahrenheit)															
		Start																			
		Stop																			
		Interior		Ambient		Pressure (inches of Hg)															
		Start																			
		Stop																			
Special Instructions/QC Requirements & Comments:																					
RUN TO-15 LIST B CONSTITUENTS (ATTACHED)																					
Canisters Shipped by:		Steve Bunge		Date/Time: 2/3/11 1617		Canisters Received by:															
Samples Relinquished by:				Date/Time:		Relinquished by:		Mark Loeb		Date/Time: 2/9/11 0930											
Relinquished by:				Date/Time:		Received by:				Date/Time:											

C

H1B100402 Analytical Report	1
Sample Receipt Documentation	25
Total Number of Pages	28



TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

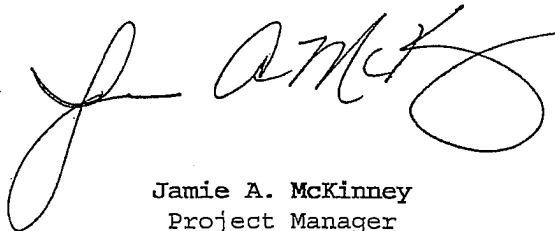
Honeywell - South Bend

Lot #: HLB150508

Steven Murray

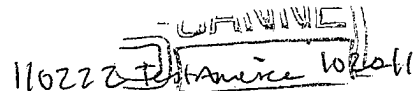
Mactec Engineering & Consultan
41 Hughes Drive
Traverse City, MI 49686

TESTAMERICA LABORATORIES, INC.



Jamie A. McKinney
Project Manager

February 22, 2011



110222 [Stamp] America 10/2011

EXECUTIVE SUMMARY - Detection Highlights

HLB150508

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SS-3017R-0211 02/10/11 09:39 001				
Benzene	2.8	0.080	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	0.21	0.16	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.39	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	0.26	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.10	0.040	ppb (v/v)	EPA-2 TO-15
B-3017R-0211 02/10/11 09:37 002				
Benzene	0.34	0.080	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.14	0.080	ppb (v/v)	EPA-2 TO-15
P-3017R-0211 02/10/11 09:43 003				
Benzene	0.34	0.080	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.26	0.080	ppb (v/v)	EPA-2 TO-15
SS-3013R-0211 02/10/11 13:21 004				
Benzene	0.19	0.080	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.22	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	0.25	0.080	ppb (v/v)	EPA-2 TO-15
B-3013R-0211 02/10/11 13:20 005				
Benzene	0.26	0.080	ppb (v/v)	EPA-2 TO-15
P-3013R-0211 02/10/11 13:29 006				
Benzene	0.26	0.080	ppb (v/v)	EPA-2 TO-15
BG-7-0211 02/10/11 13:32 007				
Benzene	0.27	0.080	ppb (v/v)	EPA-2 TO-15
SS-3034R-0211 02/10/11 15:04 008				
Benzene	0.54	0.080	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.79	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	0.69	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.12	0.040	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

HLB150508

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
B-3034R-0211 02/10/11 15:04 009				
Benzene	1.7	0.080	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	0.25	0.16	ppb (v/v)	EPA-2 TO-15
P-3034R-0211 02/10/11 15:10 010				
Benzene	1.7	0.080	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	0.31	0.16	ppb (v/v)	EPA-2 TO-15
BG-8-0211 02/10/11 15:15 011				
Benzene	0.27	0.080	ppb (v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

H1B150508

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by T015	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

H1B150508

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
MEF04	001	SS-3017R-0211	02/10/11	09:39
MEF05	002	B-3017R-0211	02/10/11	09:37
MEF06	003	P-3017R-0211	02/10/11	09:43
MEF07	004	SS-3013R-0211	02/10/11	13:21
MEF08	005	B-3013R-0211	02/10/11	13:20
MEF09	006	P-3013R-0211	02/10/11	13:29
MEF1A	007	BG-7-0211	02/10/11	13:32
MEF1C	008	SS-3034R-0211	02/10/11	15:04
MEF1D	009	B-3034R-0211	02/10/11	15:04
MEF1E	010	P-3034R-0211	02/10/11	15:10
MEF1G	011	BG-8-0211	02/10/11	15:15

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

H1B150508

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 container label for sample P-3013R-0211 was received without a sample ID listed.

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.

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.

MACTEC Engineering and Consulting Inc

Client Sample ID: SS-3017R-0211

GC/MS Volatiles

Lot-Sample #....: H1B150508-001 Work Order #....: MEF041AA Matrix.....: AIR
 Date Sampled....: 02/10/11 09:39 Date Received...: 02/15/11
 Prep Date.....: 02/17/11 Analysis Date...: 02/17/11
 Prep Batch #....: 1048373
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	2.8	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	0.21	0.16	ppb (v/v)
Tetrachloroethene	0.39	0.080	ppb (v/v)
1,1,1-Trichloroethane	0.26	0.080	ppb (v/v)
Trichloroethene	0.10	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	106	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: B-3017R-0211

GC/MS Volatiles

Lot-Sample #....: H1B150508-002 Work Order #....: MEF051AA Matrix.....: AIR
 Date Sampled....: 02/10/11 09:37 Date Received...: 02/15/11
 Prep Date.....: 02/17/11 Analysis Date...: 02/17/11
 Prep Batch #....: 1048373
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	0.34	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	0.14	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	99	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: P-3017R-0211

GC/MS Volatiles

Lot-Sample #...: H1B150508-003 Work Order #...: MEF061AA Matrix.....: AIR
 Date Sampled...: 02/10/11 09:43 Date Received...: 02/15/11
 Prep Date.....: 02/17/11 Analysis Date...: 02/17/11
 Prep Batch #...: 1048373
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
Benzene	0.34	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	0.26	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	99	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: SS-3013R-0211

GC/MS Volatiles

Lot-Sample #...: H1B150508-004 Work Order #...: MEF071AA Matrix.....: AIR
 Date Sampled...: 02/10/11 13:21 Date Received...: 02/15/11
 Prep Date.....: 02/17/11 Analysis Date...: 02/17/11
 Prep Batch #...: 1048373
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	0.19	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	0.22	0.080	ppb (v/v)
1,1,1-Trichloroethane	0.25	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	102	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: B-3013R-0211

GC/MS Volatiles

Lot-Sample #....: H1B150508-005 Work Order #....: MEF081AA Matrix.....: AIR
 Date Sampled....: 02/10/11 13:20 Date Received...: 02/15/11
 Prep Date.....: 02/17/11 Analysis Date...: 02/17/11
 Prep Batch #....: 1048373
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	0.26	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	98	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: P-3013R-0211

GC/MS Volatiles

Lot-Sample #...: H1B150508-006 Work Order #...: MEF091AA Matrix.....: AIR
 Date Sampled...: 02/10/11 13:29 Date Received...: 02/15/11
 Prep Date.....: 02/17/11 Analysis Date...: 02/17/11
 Prep Batch #...: 1048373
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	0.26	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	99	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: BG-7-0211

GC/MS Volatiles

Lot-Sample #...: H1B150508-007 Work Order #...: MEF1A1AA Matrix.....: AIR
 Date Sampled...: 02/10/11 13:32 Date Received...: 02/15/11
 Prep Date.....: 02/17/11 Analysis Date...: 02/17/11
 Prep Batch #...: 1048373
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	0.27	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	98	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: SS-3034R-0211

GC/MS Volatiles

Lot-Sample #....: H1B150508-008 Work Order #....: MEF1C1AA Matrix.....: AIR
 Date Sampled....: 02/10/11 15:04 Date Received...: 02/15/11
 Prep Date.....: 02/17/11 Analysis Date...: 02/17/11
 Prep Batch #....: 1048373
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	0.54	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	0.79	0.080	ppb (v/v)
1,1,1-Trichloroethane	0.69	0.080	ppb (v/v)
Trichloroethene	0.12	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	101	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: B-3034R-0211

GC/MS Volatiles

Lot-Sample #....: H1B150508-009 Work Order #....: MEF1D1AA Matrix.....: AIR
 Date Sampled....: 02/10/11 15:04 Date Received...: 02/15/11
 Prep Date.....: 02/17/11 Analysis Date...: 02/17/11
 Prep Batch #....: 1048373
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	1.7	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	0.25	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	99	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: P-3034R-0211

GC/MS Volatiles

Lot-Sample #....: H1B150508-010 Work Order #....: MEF1E1AA Matrix.....: AIR
 Date Sampled....: 02/10/11 15:10 Date Received...: 02/15/11
 Prep Date.....: 02/17/11 Analysis Date...: 02/17/11
 Prep Batch #....: 1048373
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	1.7	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	0.31	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	102	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: BG-8-0211

GC/MS Volatiles

Lot-Sample #...: H1B150508-011 Work Order #...: MEF1G1AA Matrix.....: AIR
 Date Sampled...: 02/10/11 15:15 Date Received...: 02/15/11
 Prep Date.....: 02/17/11 Analysis Date...: 02/18/11
 Prep Batch #...: 1048373
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	0.27	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	99	(60 - 140)	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H1B150508
MB Lot-Sample #: H1B170000-373

Work Order #...: MEJ8M1AA

Matrix.....: AIR

Analysis Date...: 02/17/11
Dilution Factor: 1

Prep Date.....: 02/17/11
Prep Batch #...: 1048373

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	0.080	ppb (v/v)	EPA-2 TO-15
sec-Butylbenzene	ND	0.16	ppb (v/v)	EPA-2 TO-15
tert-Butylbenzene	ND	0.20	ppb (v/v)	EPA-2 TO-15
Chloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	0.080	ppb (v/v)	EPA-2 TO-15
Isopropylbenzene	ND	0.16	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	ND	0.16	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	ND	0.040	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	ND	0.080	ppb (v/v)	EPA-2 TO-15
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
4-Bromofluorobenzene	99	(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 #...: H1B150508 Work Order #...: MEJ8M1AC Matrix.....: AIR
 LCS Lot-Sample#: H1B170000-373
 Prep Date.....: 02/17/11 Analysis Date...: 02/17/11
 Prep Batch #...: 1048373
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
cis-1,2-Dichloroethene	105	(70 - 130)	EPA-2 TO-15
1,1,1-Trichloroethane	114	(70 - 130)	EPA-2 TO-15
1,2-Dichloroethane	96	(70 - 130)	EPA-2 TO-15
Benzene	90	(70 - 130)	EPA-2 TO-15
1,2-Dichloropropane	80	(70 - 130)	EPA-2 TO-15
Trichloroethene	104	(70 - 130)	EPA-2 TO-15
Tetrachloroethene	92	(70 - 130)	EPA-2 TO-15
Isopropylbenzene	81	(70 - 130)	EPA-2 TO-15
n-Propylbenzene	78	(70 - 130)	EPA-2 TO-15
tert-Butylbenzene	77	(70 - 130)	EPA-2 TO-15
sec-Butylbenzene	79	(70 - 130)	EPA-2 TO-15
Vinyl chloride	85	(70 - 130)	EPA-2 TO-15
Chloroethane	95	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethene	105	(70 - 130)	EPA-2 TO-15
trans-1,2-Dichloroethene	103	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethane	103	(70 - 130)	EPA-2 TO-15

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	104	(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 #...: H1B150508 Work Order #...: MEJ8M1AC Matrix.....: AIR
 LCS Lot-Sample#: H1B170000-373
 Prep Date.....: 02/17/11 Analysis Date...: 02/17/11
 Prep Batch #...: 1048373
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
cis-1,2-Dichloroethene	5.0	5.2	ppb (v/v)	105	EPA-2 TO-15
1,1,1-Trichloroethane	5.0	5.7	ppb (v/v)	114	EPA-2 TO-15
1,2-Dichloroethane	5.0	4.8	ppb (v/v)	96	EPA-2 TO-15
Benzene	5.0	4.5	ppb (v/v)	90	EPA-2 TO-15
1,2-Dichloropropane	5.0	4.0	ppb (v/v)	80	EPA-2 TO-15
Trichloroethene	5.0	5.2	ppb (v/v)	104	EPA-2 TO-15
Tetrachloroethene	5.0	4.6	ppb (v/v)	92	EPA-2 TO-15
Isopropylbenzene	5.0	4.0	ppb (v/v)	81	EPA-2 TO-15
n-Propylbenzene	5.0	3.9	ppb (v/v)	78	EPA-2 TO-15
tert-Butylbenzene	5.0	3.9	ppb (v/v)	77	EPA-2 TO-15
sec-Butylbenzene	5.0	3.9	ppb (v/v)	79	EPA-2 TO-15
Vinyl chloride	5.0	4.2	ppb (v/v)	85	EPA-2 TO-15
Chloroethane	5.0	4.8	ppb (v/v)	95	EPA-2 TO-15
1,1-Dichloroethene	5.0	5.3	ppb (v/v)	105	EPA-2 TO-15
trans-1,2-Dichloroethene	5.0	5.2	ppb (v/v)	103	EPA-2 TO-15
1,1-Dichloroethane	5.0	5.1	ppb (v/v)	103	EPA-2 TO-15
<u>SURROGATE</u>		<u>PERCENT</u> <u>RECOVERY</u>		<u>RECOVERY</u> <u>LIMITS</u>	
4-Bromofluorobenzene		104		(60 - 140)	

NOTE(S) :

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

Bold print denotes control parameters

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

H10150508
Canister Samples Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact Information		Project Manager: Steve Murray		Sampled By: SGB		1 of 1 COCS	
Company: MRCTEC		Phone: 231-922-9050		EPA 25C		EPA 3C	
Address: 41 Hughes Drive		Site Contact: Steve Boyce		TO-14A		TO-15	
City/State/Zip: Traverse City, MI 49786		TAL Contact: Mark Loeb		TO-15		TO-15	
Phone: 231-922-9050				TO-15		TO-15	
FAX: 231-922-9055				TO-15		TO-15	
Project Name: Hornumwell SB Vapor Extrusion				TO-15		TO-15	
Site/location: South Bend, IN				TO-15		TO-15	
PO # 5133286				TO-15		TO-15	
Sample Identification		Analysis Turnaround Time		EPA 25C		EPA 3C	
SS-3017R-0211		Standard (Specify)		TO-14A		TO-15	
B-3017R-0211		Rush (Specify)		TO-15		TO-15	
P-3017R-0211				TO-15		TO-15	
SS-3013R-0211				TO-15		TO-15	
B-3013R-0211				TO-15		TO-15	
P-3013R-0211				TO-15		TO-15	
Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	Other (Please specify in notes section)
2/9/11 → 2/10/11	9:21	9:39	-30	-4.0	K287	1115	
	9:24	9:37	-28	-4.5	K477	12878	
	9:26	9:43	-30	-5.0	K437	12462	
	13:02	13:21	-28.5	-4.5	K482	1362N	
	13:04	13:20	-29.5	-4.5	K36	51491	
↓	13:06	13:24	-30	-1.0	K339	7473	
Sampled by: [Signature]							
Special Instructions/QC Requirements & Comments: Run TO-15 LYST B CONSTITUENTS (ATTACHED) - LOW LEVEL 2 boxes with custody seals RECEIVED @ AMBIENT Temp RA 2/15/11 12 CANS #8 FLOWS 12 FLOWS RA 2/15/11 2 T-BARS 2 BX FCB EX 873804404814 (MSTR)							
Canisters Shipped by: [Signature]		Date/Time: 2/10/2011 15:45		Canisters Received by:			
Samples Relinquished by: [Signature]		Date/Time: 2/15/11 10AM		Received by: [Signature]			
Relinquished by:		Date/Time:		Received by:			

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

H1850508
Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact Information		Project Manager: <u>Steve Murray</u>		Sampled By: <u>SGB</u>		1 of 1 COCs	
Company: <u>MAC-TEC</u>		Phone: <u>231-922-9050</u>		EPA 25C		Other (Please specify in notes section)	
Address: <u>41 Hughes Drive</u>		Site Contact: <u>Steve Boyce</u>		EPA 3C		Landfill Gas	
City/State/Zip: <u>Traverse City, MI 49686</u>		TAL Contact: <u>Mark Loeb</u>		TO-14A		Soil Gas	
Phone: <u>231-922-9050</u>				TO-15		Ambient Air	
FAX: <u>231-922-9055</u>						Indoor Air	
Project Name: <u>Honeywell SR Vapor Extractions</u>		Analysis Turnaround Time				Sample Type	
Site/location: <u>South Bend, IN</u>		Standard (Specify)				Other (Please specify in notes section)	
PO # <u>5133286</u>		Rush (Specify)				ASTM D-1946	
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
<u>B6-7-0211</u>	<u>2/9/11 → 2/10/11</u>	<u>13:17</u>	<u>15:32</u>	<u>-29</u>	<u>-0</u>	<u>K110</u>	<u>7496</u>
<u>SS-3034R-0211</u>		<u>15:04</u>	<u>15:04</u>	<u>-28.5</u>	<u>-0.5</u>	<u>K391</u>	<u>6381</u>
<u>B-3034R-0211</u>		<u>15:04</u>	<u>15:04</u>	<u>-30</u>	<u>-7.5</u>	<u>K174</u>	<u>1125</u>
<u>P-3034R-0211</u>		<u>15:06</u>	<u>15:10</u>	<u>-29.5</u>	<u>-6.0</u>	<u>K310</u>	<u>1403</u>
<u>B6-8-0211</u>		<u>15:15</u>	<u>15:15</u>	<u>-28.5</u>	<u>-6.5</u>	<u>K388</u>	<u>6572</u>
Sampled by:		Temperature (Fahrenheit)					
		Interior		Ambient			
Start							
Stop							
		Pressure (Inches of Hg)					
		Interior		Ambient			
Start							
Stop							
Special Instructions/QC Requirements & Comments: <u>RUN TO-15 LIST B CONSTITUENTS (ATTACHED) - LOW LEVEL</u>							
Canisters Shipped by: <u>[Signature]</u>		Date/Time: <u>2/10/11 15:45</u>		Canisters Received by:			
Samples Relinquished by: <u>[Signature]</u>		Date/Time: <u>2/15/11 10AM</u>		Received by: <u>[Signature]</u>			
Relinquished by:		Date/Time:		Received by:			

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: ~~118150~~ ~~HRL130508~~ 1182511

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		<input checked="" type="checkbox"/>		<input type="checkbox"/> 1a Do not match COC <input checked="" type="checkbox"/> 1b Incomplete information <input type="checkbox"/> 1c Marking smeared <input type="checkbox"/> 1d Label torn <input type="checkbox"/> 1e No label <input type="checkbox"/> 1f COC not received <input type="checkbox"/> 1g Other:	1B NO CLIENT ID LISTED ON CAN # 1473; MATCHED BY CAN ID 14A COC LABELS CORRECTLY SHIPPED 14B: SAMPLES RELINQUISHED SPACE 15: BLANK NO 2: 15: 11
2. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C)		<input checked="" type="checkbox"/>		<input type="checkbox"/> 2a Temp Blank = _____ <input type="checkbox"/> 2b Cooler Temp = _____ <input type="checkbox"/> 2c Cooling initiated for recently collected samples, ice present. <input type="checkbox"/> 3a Sample preservative = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?		<input checked="" type="checkbox"/>		<input type="checkbox"/> 3a Sample preservative = _____	
4. Were custody seals present/intact on cooler and/or containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 4a Not present <input type="checkbox"/> 4b Not intact <input type="checkbox"/> 4c Other:	
5. Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 5a Samples received-not on COC <input type="checkbox"/> 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 6a Leaking <input type="checkbox"/> 6b Broken	
7. Were VOA samples received without headspace?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 8a Improper container	
9. Did you check for residual chlorine, if necessary?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 10a Holding time expired	
11. For rad samples, was sample activity info. provided?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Incomplete information	
12. For 1613B water samples is pH<9?	<input checked="" type="checkbox"/>			If no, was pH adjusted to pH 7 - 9 with sulfuric acid?	
13. Are the shipping containers intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 13a Leaking <input type="checkbox"/> 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/> 14a Not relinquished	
15. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
16. Is the matrix of the samples noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
17. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
18. Is the client and project name/# identified?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
19. Was the sampler identified on the COC?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	

Quote #: 15525 PM Instructions: NA

Sample Receiving Associate: [Signature] Date: 2/15/11

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

Lot Number: H1B150508

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. Pf (in)	Final Pres. Pf (psig)	First In-Can Final Pres. Pf (psig)	Second In-Can Final Pres. Pf (psig)	Third In-Can Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments	
DDF 2-16-11	NA	29.11	MEF04	1115	-2.8													9019	
			MEF05	12878	-3.8													8989	
			MEF06	12462	-4.1													6	
			MEF07	1362N	-3.2													9026	
			MEF08	S1491	-2.2													9025	
			MEF09	7473	-0.8													9018	
			MEF1A	7496	0													9024	
			MEF1C	6381	0													8983	
			MEF1D	1125	-5.4													9017	
			MEF1E	1403	-5.0													9019	
			MEF1G	6592	-4.3													9027	

Original Chain of Custody Documentation

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

H10130508
Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact Information		Project Manager: Steve Murray		Sampled By: SGB		1 of 1 COCs	
Company: MACTEC		Phone: 231-922-9050		EPA 25C		EPA 3C	
Address: 41 Hughes Drive		Site Contact: Steve Buyze		TO-14A		TO-15	
City/State/Zip: Traverse City, MI 49686		TAL Contact: Mark Loeb		Canister ID		Flow Controller ID	
Phone: 231-922-9050				Canister Vacuum in Field, "Hg (Start)		Canister Vacuum in Field, "Hg (Stop)	
FAX: 231-922-9055				Time Start		Time Stop	
Project Name: Honeywell SB Vapor Extrusion		Analysis Turnaround Time		Rush (Specify)		Standard (Specify)	
Site/Location: South Bend, IN				Sample Date(s)		Sample Date(s)	
PO # 5133286				Sample Identification		Sample Identification	
SS-3017R-0211	2/9/11	9:21	9:39	-30	-4.0	K287	1115
B-3017R-0211	2/10/11	9:24	9:37	-28	-4.5	K477	12878
P-3017R-0211		9:26	9:43	-30	-5.0	K437	12462
SS-3013R-0211		13:02	13:21	-28.5	-4.5	K482	1362N
B-3013R-0211		13:04	13:20	-29.5	-4.5	K36	51491
P-3013R-0211		13:06	13:24	-30	-1.0	K339	7473
Sampled by:		Temperature (Fahrenheit)		Ambient		Interior	
		Ambient		Interior		Start	
		Pressure (Inches of Hg)		Ambient		Interior	
		Ambient		Interior		Start	
		Stop		Interior		Stop	
		Stop		Interior		Stop	
Special Instructions/QC Requirements & Comments:		2 boxes with custody seals		RECEIVED @ Ambient Temp		RAT 2/15/11	
		ABX Fed Ex 87380440814 (MSTR)		12 CANS		18 FLOWS 12 FLOWS	
				RAT 2/15/11		2 T-BARS	
Ron TO-15 LYST B CONSTITUENTS (ATTACHED) - LOW LEVEL		Canisters Shipped by: [Signature]		Date/Time: 2/10/2011 15:45		Canisters Received by:	
Samples Relinquished by: [Signature]		Date/Time: 2/15/11 10AM		Date/Time: 2/15/11 10AM		Received by: [Signature]	
Relinquished by:		Date/Time:		Date/Time:		Received by:	

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

H1150508

Canister Samples Chain of Custody Record

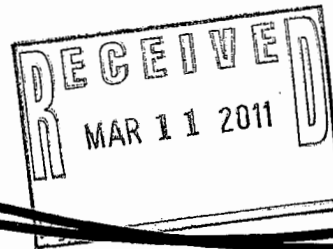
TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact Information		Project Manager: <u>Steve Murrey</u>		Sampled By: <u>SGB</u>		1 of 1 COCs																																	
Company: <u>MACTEC</u>		Phone: <u>231-922-9050</u>		EPA 25C		Other (Please specify in notes section)																																	
Address: <u>41 Hughes Drive</u>		Site Contact: <u>Steve Boyze</u>		EPA 3C		Soil Gas																																	
City/State/Zip: <u>Converse City, MT 49605</u>		TAL Contact: <u>Mark Loeb</u>		TO-14A		Ambient Air																																	
Phone: <u>231-922-9050</u>				TO-15		Indoor Air																																	
FAX: <u>231-922-9055</u>				Canister ID		Sample Type																																	
Project Name: <u>Honeywell SB Vapor Intrusion</u>		Analysis Turnaround Time		Flow Controller ID		Other (Please specify in notes section)																																	
Site/location: <u>South Bend, IN</u>		Standard (Specify)		Canister Vacuum in Field, "Hg (Start)		ASTM D-1946																																	
PO # <u>5133286</u>		Rush (Specify)		Canister Vacuum in Field, "Hg (Stop)		TO-15																																	
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																																
<u>B6-7-0211</u>	<u>2/9/11 → 2/10/11</u>	<u>13:17</u>	<u>13:32</u>	<u>-29</u>	<u>-0</u>	<u>K110</u>	<u>7496</u>																																
<u>SS-3034R-0211</u>		<u>15:04</u>	<u>15:04</u>	<u>-28.5</u>	<u>-0.5</u>	<u>K391</u>	<u>6381</u>																																
<u>B-3034R-0211</u>		<u>15:04</u>	<u>15:04</u>	<u>-30</u>	<u>-7.5</u>	<u>K174</u>	<u>1125</u>																																
<u>P-3034R-0211</u>		<u>15:06</u>	<u>15:10</u>	<u>-29.5</u>	<u>-6.0</u>	<u>K310</u>	<u>1403</u>																																
<u>B6-8-0211</u>		<u>15:15</u>	<u>15:15</u>	<u>-28.5</u>	<u>-6.5</u>	<u>K388</u>	<u>6592</u>																																
<table border="1"> <thead> <tr> <th colspan="2">Sampled by:</th> <th colspan="2">Temperature (Fahrenheit)</th> </tr> <tr> <td>Interior</td> <td></td> <td>Ambient</td> <td></td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> <tr> <th colspan="2"></th> <th colspan="2">Pressure (Inches of Hg)</th> </tr> <tr> <td>Interior</td> <td></td> <td>Ambient</td> <td></td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </thead></table>								Sampled by:		Temperature (Fahrenheit)		Interior		Ambient		Start				Stop						Pressure (Inches of Hg)		Interior		Ambient		Start				Stop			
Sampled by:		Temperature (Fahrenheit)																																					
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Interior		Ambient																																					
Start																																							
Stop																																							
Special Instructions/QC Requirements & Comments:																																							
<u>RUN TO-15 LIST B CONSTITUENTS (ATTACHED) - LOW LEVEL</u>																																							
Canisters Shipped by: <u>[Signature]</u>		Date/Time: <u>2/10/11 15:45</u>		Canisters Received by:																																			
Samples Relinquished by: <u>[Signature]</u>		Date/Time: <u>2/15/11 10AM</u>		Received by: <u>[Signature]</u>																																			
Relinquished by:		Date/Time:		Received by:																																			

H1B150508 Analytical Report 1
Sample Receipt Documentation 21
Total Number of Pages 24



TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Honeywell - South Bend

Lot #: H1B240528

Steven Murray

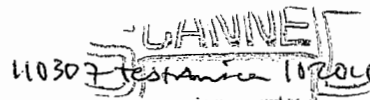
Mactec Engineering & Consultan
41 Hughes Drive
Traverse City, MI 49686

TESTAMERICA LABORATORIES, INC.

A large, stylized handwritten signature in black ink, appearing to read "J. A. McKinney". The signature is fluid and cursive, with a large loop at the end.

Jamie A. McKinney
Project Manager

March 7, 2011



EXECUTIVE SUMMARY - Detection Highlights

H1B240528

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
SS-3029L-0211 02/19/11 11:37 001				
Isopropylbenzene	0.29	0.16	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	0.17	0.16	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.19	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	0.050	0.040	ppb (v/v)	EPA-2 TO-15
Benzene	0.21	0.080	ppb (v/v)	EPA-2 TO-15
BG-10-0211 02/18/11 13:07 002				
Benzene	0.14	0.080	ppb (v/v)	EPA-2 TO-15
B-3029L-0211 02/18/11 11:47 003				
Trichloroethene	0.26	0.040	ppb (v/v)	EPA-2 TO-15
Benzene	0.37	0.080	ppb (v/v)	EPA-2 TO-15
P-3029L-0211 02/18/11 12:07 004				
Benzene	0.90	0.080	ppb (v/v)	EPA-2 TO-15
B-3019L-0211 02/18/11 08:56 005				
Trichloroethene	0.040	0.040	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	0.085	0.080	ppb (v/v)	EPA-2 TO-15
Benzene	0.33	0.080	ppb (v/v)	EPA-2 TO-15
P-3019L-0211 02/18/11 08:58 006				
Chloroethane	0.089	0.080	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	0.096	0.080	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	0.16	0.16	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.20	0.080	ppb (v/v)	EPA-2 TO-15
Benzene	0.69	0.080	ppb (v/v)	EPA-2 TO-15
BG-9-0211 02/18/11 09:04 007				
Benzene	0.15	0.080	ppb (v/v)	EPA-2 TO-15
SS-3019L-0211 02/18/11 08:56 008				
Isopropylbenzene	0.34	0.16	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	0.25	0.16	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	0.25	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	0.18	0.080	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

H1B240528

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
SS-3019L-0211 02/18/11 08:56 008				
Trichloroethene	0.050	0.040	ppb (v/v)	EPA-2 TO-15
Benzene	0.31	0.080	ppb (v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

H1B240528

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
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

H1B240528

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
METW9	001	SS-3029L-0211	02/19/11	11:37
METXD	002	BG-10-0211	02/18/11	13:07
METXF	003	B-3029L-0211	02/18/11	11:47
METXH	004	P-3029L-0211	02/18/11	12:07
METXK	005	B-3019L-0211	02/18/11	08:56
METXL	006	P-3019L-0211	02/18/11	08:58
METXM	007	BG-9-0211	02/18/11	09:04
METXN	008	SS-3019L-0211	02/18/11	08:56

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

H1B240528

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

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.

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.

MACTEC Engineering and Consulting Inc

Client Sample ID: SS-3029L-0211

GC/MS Volatiles

Lot-Sample #....: H1B240528-001 Work Order #....: METW91AA Matrix.....: AIR
 Date Sampled....: 02/19/11 11:37 Date Received...: 02/24/11
 Prep Date.....: 02/28/11 Analysis Date...: 02/28/11
 Prep Batch #....: 1060109
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	0.29	0.16	ppb (v/v)
n-Propylbenzene	0.17	0.16	ppb (v/v)
Tetrachloroethene	0.19	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	0.050	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
Benzene	0.21	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	103	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: BG-10-0211

GC/MS Volatiles

Lot-Sample #...: H1B240528-002 Work Order #...: METXD1AA Matrix.....: AIR
 Date Sampled...: 02/18/11 13:07 Date Received...: 02/24/11
 Prep Date.....: 02/28/11 Analysis Date...: 03/01/11
 Prep Batch #...: 1060109
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
Benzene	0.14	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	99	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: B-3029L-0211

GC/MS Volatiles

Lot-Sample #...: H1B240528-003 Work Order #...: METXF1AA Matrix.....: AIR
 Date Sampled...: 02/18/11 11:47 Date Received...: 02/24/11
 Prep Date.....: 02/28/11 Analysis Date...: 03/01/11
 Prep Batch #...: 1060109
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	0.26	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
Benzene	0.37	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	100	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: P-3029L-0211

GC/MS Volatiles

Lot-Sample #...: H1B240528-004 Work Order #...: METXH1AA Matrix.....: AIR
 Date Sampled...: 02/18/11 12:07 Date Received...: 02/24/11
 Prep Date.....: 02/28/11 Analysis Date...: 03/01/11
 Prep Batch #...: 1060109
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
Benzene	0.90	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	100	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: B-3019L-0211

GC/MS Volatiles

Lot-Sample #....: H1B240528-005 Work Order #....: METXK1AA Matrix.....: AIR
 Date Sampled....: 02/18/11 08:56 Date Received...: 02/24/11
 Prep Date.....: 02/28/11 Analysis Date...: 03/01/11
 Prep Batch #....: 1060109
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	0.040	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	0.085	0.080	ppb (v/v)
Benzene	0.33	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	101	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: P-3019L-0211

GC/MS Volatiles

Lot-Sample #....: H1B240528-006 Work Order #....: METXL1AA Matrix.....: AIR
 Date Sampled....: 02/18/11 08:58 Date Received...: 02/24/11
 Prep Date.....: 02/28/11 Analysis Date...: 03/01/11
 Prep Batch #....: 1060109
 Dilution Factor: 1 Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Chloroethane	0.089	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	0.096	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	0.16	0.16	ppb (v/v)
Tetrachloroethene	0.20	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
Benzene	0.69	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	105	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: BG-9-0211

GC/MS Volatiles

Lot-Sample #....: H1B240528-007 Work Order #....: METXM1AA Matrix.....: AIR
 Date Sampled....: 02/18/11 09:04 Date Received...: 02/24/11
 Prep Date.....: 02/28/11 Analysis Date...: 03/01/11
 Prep Batch #....: 1060109
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	ND	0.16	ppb (v/v)
n-Propylbenzene	ND	0.16	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
Benzene	0.15	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	101	(60 - 140)	

MACTEC Engineering and Consulting Inc

Client Sample ID: SS-3019L-0211.

GC/MS Volatiles

Lot-Sample #...: H1B240528-008 Work Order #...: METXN1AA Matrix.....: AIR
 Date Sampled...: 02/18/11 08:56 Date Received...: 02/24/11
 Prep Date.....: 02/28/11 Analysis Date...: 03/01/11
 Prep Batch #...: 1060109
 Dilution Factor: 1 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Chloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
Isopropylbenzene	0.34	0.16	ppb (v/v)
n-Propylbenzene	0.25	0.16	ppb (v/v)
Tetrachloroethene	0.25	0.080	ppb (v/v)
1,1,1-Trichloroethane	0.18	0.080	ppb (v/v)
Trichloroethene	0.050	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)
tert-Butylbenzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
Benzene	0.31	0.080	ppb (v/v)
sec-Butylbenzene	ND	0.16	ppb (v/v)
	PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	100	(60 - 140)	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H1B240528
 MB Lot-Sample #: H1C010000-109

Work Order #...: ME1GL1AA

Matrix.....: AIR

Analysis Date...: 02/28/11

Prep Date.....: 02/28/11

Prep Batch #...: 1060109

Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Vinyl chloride	ND	0.080	ppb (v/v)	EPA-2 TO-15
Benzene	ND	0.080	ppb (v/v)	EPA-2 TO-15
sec-Butylbenzene	ND	0.16	ppb (v/v)	EPA-2 TO-15
tert-Butylbenzene	ND	0.20	ppb (v/v)	EPA-2 TO-15
Chloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	0.080	ppb (v/v)	EPA-2 TO-15
Isopropylbenzene	ND	0.16	ppb (v/v)	EPA-2 TO-15
n-Propylbenzene	ND	0.16	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	ND	0.080	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)	EPA-2 TO-15
Trichloroethene	ND	0.040	ppb (v/v)	EPA-2 TO-15
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
4-Bromofluorobenzene	98	(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 #...: H1B240528 Work Order #...: ME1GL1AC Matrix.....: AIR
 LCS Lot-Sample#: H1C010000-109
 Prep Date.....: 02/28/11 Analysis Date..: 02/28/11
 Prep Batch #...: 1060109
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Vinyl chloride	93	(70 - 130)	EPA-2 TO-15
Chloroethane	102	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethene	93	(70 - 130)	EPA-2 TO-15
trans-1,2-Dichloroethene	108	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethane	100	(70 - 130)	EPA-2 TO-15
cis-1,2-Dichloroethene	96	(70 - 130)	EPA-2 TO-15
1,1,1-Trichloroethane	114	(70 - 130)	EPA-2 TO-15
1,2-Dichloroethane	101	(70 - 130)	EPA-2 TO-15
Benzene	86	(70 - 130)	EPA-2 TO-15
1,2-Dichloropropane	79	(70 - 130)	EPA-2 TO-15
Trichloroethene	99	(70 - 130)	EPA-2 TO-15
Tetrachloroethene	97	(70 - 130)	EPA-2 TO-15
Isopropylbenzene	86	(70 - 130)	EPA-2 TO-15
n-Propylbenzene	83	(70 - 130)	EPA-2 TO-15
tert-Butylbenzene	85	(70 - 130)	EPA-2 TO-15
sec-Butylbenzene	87	(70 - 130)	EPA-2 TO-15

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	105	(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 #...: H1B240528 Work Order #...: ME1GL1AC Matrix.....: AIR
 LCS Lot-Sample#: H1C010000-109
 Prep Date.....: 02/28/11 Analysis Date...: 02/28/11
 Prep Batch #...: 1060109
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Vinyl chloride	5.0	4.6	ppb (v/v)	93	EPA-2 TO-15
Chloroethane	5.0	5.1	ppb (v/v)	102	EPA-2 TO-15
1,1-Dichloroethene	5.0	4.6	ppb (v/v)	93	EPA-2 TO-15
trans-1,2-Dichloroethene	5.0	5.4	ppb (v/v)	108	EPA-2 TO-15
1,1-Dichloroethane	5.0	5.0	ppb (v/v)	100	EPA-2 TO-15
cis-1,2-Dichloroethene	5.0	4.8	ppb (v/v)	96	EPA-2 TO-15
1,1,1-Trichloroethane	5.0	5.7	ppb (v/v)	114	EPA-2 TO-15
1,2-Dichloroethane	5.0	5.0	ppb (v/v)	101	EPA-2 TO-15
Benzene	5.0	4.3	ppb (v/v)	86	EPA-2 TO-15
1,2-Dichloropropane	5.0	4.0	ppb (v/v)	79	EPA-2 TO-15
Trichloroethene	5.0	5.0	ppb (v/v)	99	EPA-2 TO-15
Tetrachloroethene	5.0	4.9	ppb (v/v)	97	EPA-2 TO-15
Isopropylbenzene	5.0	4.3	ppb (v/v)	86	EPA-2 TO-15
n-Propylbenzene	5.0	4.1	ppb (v/v)	83	EPA-2 TO-15
tert-Butylbenzene	5.0	4.3	ppb (v/v)	85	EPA-2 TO-15
sec-Butylbenzene	5.0	4.4	ppb (v/v)	87	EPA-2 TO-15
<u>SURROGATE</u>					
4-Bromofluorobenzene					
			<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	
			105	(60 - 140)	

NOTE (S) :

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

Bold print denotes control parameters

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

Client Contact Information Company: <u>MACTEC</u> Address: <u>41 HUGHES DRIVE</u> City/State/Zip: <u>TRAVERSE CITY MI 49696</u> Phone: <u>231-922-9050</u> FAX: <u>231-922-9055</u> Project Name: <u>HOWEY WELLS B3 VAPOR INTRUSION</u> Site/location: <u>SOUTH BEND, IN</u> PO # <u>5133286</u>			Project Manager: STEVE MURAY Phone: <u>231-922-9050</u> Site Contact: <u>STEVE BUZE</u> TAL Contact: <u>MARK LOEB</u>			Sampled By: <u>Steve Buzze</u>			1 of 1 COCs									
Standard (Specify) Rush (Specify)			Analysis Turnaround Time Standard (Specify)			ASTM D-1946			Other (Please specify in notes section)									
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	TPA 3C	TPA 26C	Other (Please specify in notes section)	Sample Types	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	
2-18-11 → 2-19-11	1133	1137	-29	-6	K168	62273	X											
2-17-11 → 2-18-11	1137	1307	-29	-6	K200	6370	X											
2-17-11 → 2-18-11	1133	1147	-28.5	-5.5	K124	2966	X											
2-17-11 → 2-18-11	1132	1207	-29	-5.5	K284	93245	X											
Sampled by:												5 boxes NO CUSTODY SEALS RECEIVED @ Ambient Temp Rst 2/24/11						
Start												5 boxes UPS 1Z5403W503458967129						
Stop												1Z5403W50347866507 1Z5403W50345033339 1Z5403W50346050943 1Z5403W50346541118						
Special Instructions/QC Requirements & Comments: Run TO-15 Low Level LIST B CONSTITUENTS ATTACHED 24 CANS 24 Flows																		
Canisters Shipped by: <u>Steve Buzze</u>			Date/Time: 2-21-11 1130			Canisters Received by:												
Samples Relinquished by:			Date/Time:			Received by: <u>Steve Buzze</u> 2/24/11 09:45												
Relinquished by:			Date/Time:			Received by:												

1-16-2011

Canister Samples Chain of Custody Record

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

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

Client Contact Information		Project Manager: STEVE MURRAY		Sampled By: Steven Buzze		1 of 1 COCs															
Company: MACTEC		Phone: 231-922-9050																			
Address: 41 HUGHES DRIVE		Site Contact: STEVE BUZZE																			
City/State/Zip: TRAVERSE CITY MI 49696		TAL Contact: MARK LOEB																			
Phone: 231-922-9050																					
FAX: 231-922-9055																					
Project Name: HANLEYWELL SB VAPOR EXHAUSTION		Analysis Turnaround Time																			
Site/location: SOUTH BEND IN		Standard (Specify)																			
PO # 5133286		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)		
B-3019L-0211	2-17-11 → 2-18-11	0846	0856	-29	-7	K462	6350	X													
P-3019L-0211	2-17-11 → 2-18-11	0849	0858	-29	-6	K216	6520	X													
B6-9-0211	2-17-11 → 2-18-11	0858	0904	-30	-5.5	K314	L4426	X													
SS-3019L-0211	2-17-11 → 2-18-11	0846	0856	-27.5	-4	K483	1147	X													
Sampled by:																					
Temperature (Fahrenheit)																					
Interior																					
Ambient																					
Start																					
Stop																					
Pressure (inches of Hg)																					
Interior																					
Ambient																					
Start																					
Stop																					
Special Instructions/QC Requirements & Comments:																					
RUN TO-15 LIST B CONSTITUENTS (ATTACHED)																					
Canisters Shipped by: Steven Buzze		Date/Time: 2/21/2011 1146		Canisters Received by:																	
Samples Relinquished by:		Date/Time:		Received by: Redmond		Date/Time: 2/24/11															
Relinquished by:		Date/Time:		Received by:		Date/Time: 09:45															

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: 112411528

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			<input type="checkbox"/> 1a Do not match COC <input type="checkbox"/> 1b Incomplete information <input type="checkbox"/> 1c Marking smeared <input type="checkbox"/> 1d Label torn <input type="checkbox"/> 1e No label <input type="checkbox"/> 1f COC not received <input type="checkbox"/> 1g Other:	NA
2. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C)		✓		<input type="checkbox"/> 2a Temp Blank = _____ <input type="checkbox"/> 2b Cooler Temp = _____ <input type="checkbox"/> 2c Cooling initiated for recently collected samples, ice present. <input type="checkbox"/> 3a Sample preservative = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?		✓		<input type="checkbox"/> 4a Not present <input type="checkbox"/> 4b Not intact <input type="checkbox"/> 4c Other:	
4. Were custody seals present/intact on cooler and/or containers?		✓		<input type="checkbox"/> 5a Samples received-not on COC <input type="checkbox"/> 5b Samples not received-on COC <input type="checkbox"/> 6a Leaking <input type="checkbox"/> 6b Broken <input type="checkbox"/> 7a Headspace (VOA only) <input type="checkbox"/> 8a Improper container <input type="checkbox"/> 9a Could not be determined due to matrix interference <input type="checkbox"/> 10a Holding time expired <input type="checkbox"/> Incomplete information	
5. Were all of the samples listed on the COC received?		✓		<input type="checkbox"/> 10a Holding time expired <input type="checkbox"/> Incomplete information If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	
6. Were all of the sample containers received intact?		✓		<input type="checkbox"/> 13a Leaking <input type="checkbox"/> 13b Other:	
7. Were VOA samples received without headspace?		✓		<input type="checkbox"/> 14a Not relinquished <input type="checkbox"/> 15a Incomplete information <input type="checkbox"/> 15b Incomplete information	
8. Were samples received in appropriate containers?		✓		<input type="checkbox"/> 15a Incomplete information <input type="checkbox"/> 15b Incomplete information	
9. Did you check for residual chlorine, if necessary?		✓		<input type="checkbox"/> 15a Incomplete information <input type="checkbox"/> 15b Incomplete information	
10. Were samples received within holding time?		✓			
11. For rad samples, was sample activity info. provided?		✓			
12. For 1613B water samples is pH<9?		✓			
13. Are the shipping containers intact?		✓			
14. Was COC relinquished? (Signed/Dated/Timed)		✓			
15. Are tests/parameters listed for each sample?		✓			
16. Is the matrix of the samples noted?		✓			
17. Is the date/time of sample collection noted?		✓			
18. Is the client and project name/# identified?		✓			
19. Was the sampler identified on the COC?		✓			
Quote #: <u>75525</u> PM Instructions: <u>NA</u>					

Sample Receiving Associate: Wynne D. Amos Date: 2-24-11

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

Lot Number: HIB240528

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. P1 (in)	Final Pres. P2 (psig)	First In-Can Final Pres. P1 (psig)	Second In-Can Final Pres. P1 (psig)	Third In-Can Final Pres. P1 (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. P1 (psig)	Comments	
304 2-25-11	NA	28.6	METW9	62273	-4.7													8989	
			METXD	6370	-4.3													9000	
			METXF	2966	-4.9													8976	
			METXH	93245	-4.4													9019	
			METXK	6350	-6.6													8984	
			METXL	6520	-5.8													8990	
			METXM	L4426	-3.6													8996	
			METXN	1147	-4.9													9020	

Original Chain of Custody Documentation

HB24DS28

THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

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

Client Contact Information		Project Manager: STEVE MURRAY		Sampled By: Stevens Buyze		1 of 1 COCs	
Company: MACTEC		Phone: 231-922-9050		EPA 3C		EPA 25C	
Address: 41 HUGHES DRIVE		Site Contact: STEVE BUYZE		TO-14A		TO-15	
City/State/Zip: TRAVERSE CITY MI 49696		TAL Contact: MARK LOEB		Flow Controller ID		Canister ID	
Phone: 231-922-9050				Canister Vacuum in Field, "Hg (Start)		Canister Vacuum in Field, "Hg (Stop)	
FAX: 231-922-9055				Time Start		Time Stop	
Project Name: HONEYWELL SB VAPOR INTRUSION		Analysis Turnaround Time		Temperature (Fahrenheit)		Pressure (Inches of Hg)	
Site/location: SOUTH BEND, IN		Standard (Specify)		Ambient		Ambient	
PO # 5133286		Rush (Specify)		Interior		Interior	
Sample Identification		Sample Date(s)		Start		Stop	
55-3029L-0211		2-18-11		11:37		11:37	
86-10-0211		2-17-11		11:37		13:07	
B-3029L-0211		2-18-11		11:33		11:47	
P-3029L-0211		2-18-11		11:32		12:07	
Sampled by:		5 boxes NO CUSTODY SEALS RECEIVED @ AMBIENT Temp R# 2/24/11		5 boxes UPS 1Z5403W50345896729		1Z5403W50347866507	
Special Instructions/QC Requirements & Comments:		Run TO-15 Low Level LIST B CONSTITUENTS ATTACHED		24 CANS		24 Flows	
Canisters Shipped by: Steve Buyze		Date/Time: 2-21-11 11:30		Canisters Received by:			
Samples Relinquished by:		Date/Time:		Received by: Steve Buyze		Date/Time: 2/24/11 09:45	
Relinquished by:		Date/Time:		Received by:		Date/Time:	

1-7162MDS28

THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

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

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

Client Contact Information Company: <u>MACTEL</u> Address: <u>41 HUGHES DRIVE</u> City/State/Zip: <u>TRAVERSE CITY MI 49696</u> Phone: <u>231-922-9050</u> FAX: <u>231-922-9055</u> Project Name: <u>HTS EYEWELL SB VAPOR INITIATION</u> Site/location: <u>SOUTH BEND IN</u> PO # <u>5133286</u>		Project Manager: <u>STEVE MURRAY</u> Phone: <u>231-922-9050</u> Site Contact: <u>STEVE BUZYK</u> TAL Contact: <u>MARK LOEB</u>		Sampled By: <u>Steven Buzze</u>		1 of 1 COCs													
Analysis Turnaround Time Standard (Specify) 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)
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SS-3019L-0211	2-17-11 → 2-18-11	0846	0856	-27.5	-4	K483	1147	X											
Sampled by :																			
Temperature (Fahrenheit)																			
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Pressure (inches of Hg)																			
Interior Ambient																			
Start																			
Stop																			
Special Instructions/QC Requirements & Comments: RUN TO-15 LIST B CONSTITUENTS (ATTACHED)																			
Canisters Shipped by: <u>Steven Buzze</u>		Date/Time: <u>2/21/2011 1146</u>		Canisters Received by:		Date/Time:		Received by: <u>Steve Buzze 2/24/11 09:45</u>		Date/Time:		Received by:		Date/Time:		Relinquished by:		Date/Time:	

H1B240528 Analytical Report	1
Sample Receipt Documentation	18
Total Number of Pages	21