

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

Job Number: 680-46461-1

SDG Number: KSX06

Job Description: WGK Soil Vapor 4/15/09

For:

Solutia Inc.

575 Maryville Centre Dr.

Saint Louis, MO 63141

Attention: Mr. William G Johnson



Approved for release.
Lidya Gulizia
Project Manager I
4/30/2009 12:29 PM

Lidya Gulizia

Project Manager I

lidya.gulizia@testamericainc.com

04/30/2009

cc: Mr. Jeff Adams
Mr. Bob Billman
Dave Palmer
Erin Stanisewski

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

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

TestAmerica Laboratories, Inc.

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Job Narrative
Savannah Job No. 680-J46461-1 / Knoxville No. H9D160140

Receipt

Vapor samples collected in tedlar bags were direct shipped to TestAmerica Knoxville for vapor analysis.

No analytical or quality issues were noted.

Comments

No additional comments.

US EPA ARCHIVE DOCUMENT

METHOD SUMMARY

Client: Solutia Inc.

Job Number: 680-46461-1

Sdg Number: KSX06

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

Lab References:

TAL KNX = TestAmerica Knoxville

Method References:

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

US EPA ARCHIVE DOCUMENT

SAMPLE SUMMARY

Client: Solutia Inc.

Job Number: 680-46461-1

Sdg Number: KSX06

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-46461-1	WGK-BIGMO-BAS-VP17S- V	Air - Tedlar Bag	04/15/2009 1500	04/16/2009 0945
680-46461-2	WGK-BIGMO-BAS-SVE12I -V	Air - Tedlar Bag	04/15/2009 1510	04/16/2009 0945
680-46461-3	WGK-BIGMO-BAS-VP11I- V	Air - Tedlar Bag	04/15/2009 1515	04/16/2009 0945
680-46461-4	WGK-BIGMO-BAS-SVE04 S-V	Air - Tedlar Bag	04/15/2009 1520	04/16/2009 0945
680-46461-5	WGK-BIGMO-BAS-VPA01 D-V	Air - Tedlar Bag	04/15/2009 1535	04/16/2009 0945
680-46461-6	WGK-BIGMO-BAS-SVE08 D-V	Air - Tedlar Bag	04/15/2009 1525	04/16/2009 0945
680-46461-7	WGK-BIGMO-BAS-VP09S- V	Air - Tedlar Bag	04/15/2009 1530	04/16/2009 0945

US EPA ARCHIVE DOCUMENT

SAMPLE RESULTS



TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 680-46461

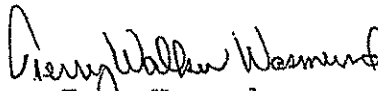
Solutia Soil Vapor - APR 2009

Lot #: H9D160140

Lidya Gulizia

TestAmerica Savannah
5102 Laroche Avenue
Savannah, GA 31404

TESTAMERICA LABORATORIES, INC.


Terry Wasmund
Project Manager

April 28, 2009

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ANALYTICAL METHODS SUMMARY

H9D160140

<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

H9D160140

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K96TA	001	WGK-BIGMO-BAS-VP17S-V	04/15/09	15:00
K96TD	002	WGK-BIGMO-BAS-SVE12I-V	04/15/09	15:10
K96TE	003	WGK-BIGMO-BAS-VP11I-V	04/15/09	15:15
K96TG	004	WGK-BIGMO-BAS-SVE04S-V	04/15/09	15:20
K96TL	005	WGK-BIGMO-BAS-VPA01D-V	04/15/09	15:35
K96TM	006	WGK-BIGMO-BAS-SVE08D-V	04/15/09	15:25
K96TN	007	WGK-BIGMO-BAS-VP09S-V	04/15/09	15:30

NOTE (S) :

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

PROJECT NARRATIVE H9D160140

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

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

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

Sample Receipt

Custody seals were not present.

Quality Control and Data Interpretation

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

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

The samples were received on 04/16/09 in Tedlar bags and transferred into Summa Canisters within 72 hours of sampling.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be $\leq 40\%$ difference from the initial calibration. The calibration verification analyzed on 04/20/09 exhibited a %difference of $>30\%$ but $\leq 40\%$ for 1,2-dichloro-1,1,2,2-tetrafluoroethane.

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.

Sample Data Summary

TestAmerica Savannah

Client Sample ID: WGK-BIGMO-BAS-VP17S-V

GC/MS Volatiles

Lot-Sample #....: H9D160140-001 Work Order #....: K96TA1AA Matrix.....: AIR
 Date Sampled....: 04/15/09 Date Received...: 04/16/09
 Prep Date.....: 04/20/09 Analysis Date...: 04/20/09
 Prep Batch #....: 9111260
 Dilution Factor: 993149.8 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Dichlorodifluoromethane	ND	200000	ppb (v/v)
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	200000	ppb (v/v)
Chloromethane	ND	500000	ppb (v/v)
Vinyl chloride	ND	200000	ppb (v/v)
Bromomethane	ND	200000	ppb (v/v)
Chloroethane	ND	200000	ppb (v/v)
Trichlorofluoromethane	ND	200000	ppb (v/v)
1,1-Dichloroethene	ND	200000	ppb (v/v)
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200000	ppb (v/v)
Methylene chloride	ND	500000	ppb (v/v)
1,1-Dichloroethane	ND	200000	ppb (v/v)
cis-1,2-Dichloroethene	ND	200000	ppb (v/v)
Chloroform	ND	200000	ppb (v/v)
1,1,1-Trichloroethane	ND	200000	ppb (v/v)
Carbon tetrachloride	ND	200000	ppb (v/v)
Benzene	57000000	200000	ppb (v/v)
1,2-Dichloroethane	ND	200000	ppb (v/v)
Trichloroethene	ND	200000	ppb (v/v)
1,2-Dichloropropane	ND	200000	ppb (v/v)
cis-1,3-Dichloropropene	ND	200000	ppb (v/v)
Toluene	ND	200000	ppb (v/v)
trans-1,3-Dichloropropene	ND	200000	ppb (v/v)
1,1,2-Trichloroethane	ND	200000	ppb (v/v)
Tetrachloroethene	ND	200000	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	200000	ppb (v/v)
Chlorobenzene	ND	200000	ppb (v/v)
Ethylbenzene	ND	200000	ppb (v/v)
m-Xylene & p-Xylene	ND	200000	ppb (v/v)
o-Xylene	ND	200000	ppb (v/v)
Styrene	ND	200000	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	200000	ppb (v/v)
1,3,5-Trimethylbenzene	ND	200000	ppb (v/v)
1,2,4-Trimethylbenzene	ND	200000	ppb (v/v)
1,3-Dichlorobenzene	ND	200000	ppb (v/v)
1,4-Dichlorobenzene	ND	200000	ppb (v/v)
1,2-Dichlorobenzene	ND	200000	ppb (v/v)
Benzyl chloride	ND	400000	ppb (v/v)

(Continued on next page)

TestAmerica Savannah

Client Sample ID: WGK-BIGMO-BAS-VP17S-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-001 Work Order #...: K96TA1AA Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,2,4-Trichloro- benzene	ND	990000	ppb (v/v)
Hexachlorobutadiene	ND	990000	ppb (v/v)
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
4-Bromofluorobenzene	96	(70 - 130)	

US EPA ARCHIVE DOCUMENT

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Client Sample ID: W GK-BIGMO-BAS-SVE12I-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-002 Work Order #...: K96TD1AA Matrix.....: AIR
 Date Sampled...: 04/15/09 Date Received...: 04/16/09
 Prep Date.....: 04/20/09 Analysis Date...: 04/20/09
 Prep Batch #...: 9111260
 Dilution Factor: 352591.6 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	71000	ppb (v/v)
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	71000	ppb (v/v)
Chloromethane	ND	180000	ppb (v/v)
Vinyl chloride	ND	71000	ppb (v/v)
Bromomethane	ND	71000	ppb (v/v)
Chloroethane	ND	71000	ppb (v/v)
Trichlorofluoromethane	ND	71000	ppb (v/v)
1,1-Dichloroethene	ND	71000	ppb (v/v)
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	71000	ppb (v/v)
Methylene chloride	ND	180000	ppb (v/v)
1,1-Dichloroethane	ND	71000	ppb (v/v)
cis-1,2-Dichloroethene	ND	71000	ppb (v/v)
Chloroform	ND	71000	ppb (v/v)
1,1,1-Trichloroethane	ND	71000	ppb (v/v)
Carbon tetrachloride	ND	71000	ppb (v/v)
Benzene	20000000	71000	ppb (v/v)
1,2-Dichloroethane	ND	71000	ppb (v/v)
Trichloroethene	ND	71000	ppb (v/v)
1,2-Dichloropropane	ND	71000	ppb (v/v)
cis-1,3-Dichloropropene	ND	71000	ppb (v/v)
Toluene	ND	71000	ppb (v/v)
trans-1,3-Dichloropropene	ND	71000	ppb (v/v)
1,1,2-Trichloroethane	ND	71000	ppb (v/v)
Tetrachloroethene	ND	71000	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	71000	ppb (v/v)
Chlorobenzene	ND	71000	ppb (v/v)
Ethylbenzene	ND	71000	ppb (v/v)
m-Xylene & p-Xylene	ND	71000	ppb (v/v)
o-Xylene	ND	71000	ppb (v/v)
Styrene	ND	71000	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	71000	ppb (v/v)
1,3,5-Trimethylbenzene	ND	71000	ppb (v/v)
1,2,4-Trimethylbenzene	ND	71000	ppb (v/v)
1,3-Dichlorobenzene	ND	71000	ppb (v/v)
1,4-Dichlorobenzene	ND	71000	ppb (v/v)
1,2-Dichlorobenzene	ND	71000	ppb (v/v)
Benzyl chloride	ND	140000	ppb (v/v)

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TestAmerica Savannah

Client Sample ID: W GK-BIGMO-BAS-SVE12I-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-002 Work Order #...: K96TD1AA Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,2,4-Trichloro- benzene	ND	350000	ppb (v/v)
Hexachlorobutadiene	ND	350000	ppb (v/v)
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
4-Bromofluorobenzene	94	(70 - 130)	

US EPA ARCHIVE DOCUMENT

TestAmerica Savannah

Client Sample ID: W GK-BIGMO-BAS-VP111-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-003 Work Order #...: K96TE1AA Matrix.....: AIR
 Date Sampled...: 04/15/09 Date Received...: 04/16/09
 Prep Date.....: 04/20/09 Analysis Date...: 04/20/09
 Prep Batch #...: 9111260
 Dilution Factor: 1097848. Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Dichlorodifluoromethane	ND	220000	ppb (v/v)
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	220000	ppb (v/v)
Chloromethane	ND	550000	ppb (v/v)
Vinyl chloride	ND	220000	ppb (v/v)
Bromomethane	ND	220000	ppb (v/v)
Chloroethane	ND	220000	ppb (v/v)
Trichlorofluoromethane	ND	220000	ppb (v/v)
1,1-Dichloroethene	ND	220000	ppb (v/v)
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220000	ppb (v/v)
Methylene chloride	ND	550000	ppb (v/v)
1,1-Dichloroethane	ND	220000	ppb (v/v)
cis-1,2-Dichloroethene	ND	220000	ppb (v/v)
Chloroform	ND	220000	ppb (v/v)
1,1,1-Trichloroethane	ND	220000	ppb (v/v)
Carbon tetrachloride	ND	220000	ppb (v/v)
Benzene	28000000	220000	ppb (v/v)
1,2-Dichloroethane	ND	220000	ppb (v/v)
Trichloroethene	ND	220000	ppb (v/v)
1,2-Dichloropropane	ND	220000	ppb (v/v)
cis-1,3-Dichloropropene	ND	220000	ppb (v/v)
Toluene	ND	220000	ppb (v/v)
trans-1,3-Dichloropropene	ND	220000	ppb (v/v)
1,1,2-Trichloroethane	ND	220000	ppb (v/v)
Tetrachloroethene	ND	220000	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	220000	ppb (v/v)
Chlorobenzene	ND	220000	ppb (v/v)
Ethylbenzene	ND	220000	ppb (v/v)
m-Xylene & p-Xylene	ND	220000	ppb (v/v)
o-Xylene	ND	220000	ppb (v/v)
Styrene	ND	220000	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	220000	ppb (v/v)
1,3,5-Trimethylbenzene	ND	220000	ppb (v/v)
1,2,4-Trimethylbenzene	ND	220000	ppb (v/v)
1,3-Dichlorobenzene	ND	220000	ppb (v/v)
1,4-Dichlorobenzene	ND	220000	ppb (v/v)
1,2-Dichlorobenzene	ND	220000	ppb (v/v)
Benzyl chloride	ND	440000	ppb (v/v)

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TestAmerica Savannah

Client Sample ID: W GK-BIGMO-BAS-VP11I-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-003 Work Order #...: K96TE1AA Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,2,4-Trichloro- benzene	ND	1100000	ppb (v/v)
Hexachlorobutadiene	ND	1100000	ppb (v/v)
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
4-Bromofluorobenzene	97	(70 - 130)	

TestAmerica Savannah

Client Sample ID: WGK-BIGMO-BAS-SVE04S-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-004 Work Order #...: K96TG1AA Matrix.....: AIR
 Date Sampled...: 04/15/09 Date Received...: 04/16/09
 Prep Date.....: 04/20/09 Analysis Date...: 04/20/09
 Prep Batch #...: 9111260
 Dilution Factor: 1153148. Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	230000	ppb (v/v)
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	230000	ppb (v/v)
Chloromethane	ND	580000	ppb (v/v)
Vinyl chloride	ND	230000	ppb (v/v)
Bromomethane	ND	230000	ppb (v/v)
Chloroethane	ND	230000	ppb (v/v)
Trichlorofluoromethane	ND	230000	ppb (v/v)
1,1-Dichloroethene	ND	230000	ppb (v/v)
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	230000	ppb (v/v)
Methylene chloride	ND	580000	ppb (v/v)
1,1-Dichloroethane	ND	230000	ppb (v/v)
cis-1,2-Dichloroethene	ND	230000	ppb (v/v)
Chloroform	ND	230000	ppb (v/v)
1,1,1-Trichloroethane	ND	230000	ppb (v/v)
Carbon tetrachloride	ND	230000	ppb (v/v)
Benzene	22000000	230000	ppb (v/v)
1,2-Dichloroethane	ND	230000	ppb (v/v)
Trichloroethene	ND	230000	ppb (v/v)
1,2-Dichloropropane	ND	230000	ppb (v/v)
cis-1,3-Dichloropropene	ND	230000	ppb (v/v)
Toluene	ND	230000	ppb (v/v)
trans-1,3-Dichloropropene	ND	230000	ppb (v/v)
1,1,2-Trichloroethane	ND	230000	ppb (v/v)
Tetrachloroethene	ND	230000	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	230000	ppb (v/v)
Chlorobenzene	ND	230000	ppb (v/v)
Ethylbenzene	ND	230000	ppb (v/v)
m-Xylene & p-Xylene	ND	230000	ppb (v/v)
o-Xylene	ND	230000	ppb (v/v)
Styrene	ND	230000	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	230000	ppb (v/v)
1,3,5-Trimethylbenzene	ND	230000	ppb (v/v)
1,2,4-Trimethylbenzene	ND	230000	ppb (v/v)
1,3-Dichlorobenzene	ND	230000	ppb (v/v)
1,4-Dichlorobenzene	ND	230000	ppb (v/v)
1,2-Dichlorobenzene	ND	230000	ppb (v/v)
Benzyl chloride	ND	460000	ppb (v/v)

(Continued on next page)

TestAmerica Savannah

Client Sample ID: WGK-BIGMO-BAS-SVE04S-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-004 Work Order #...: K96TG1AA Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,2,4-Trichloro- benzene	ND	1200000	ppb (v/v)
Hexachlorobutadiene	ND	1200000	ppb (v/v)
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
4-Bromofluorobenzene	94	(70 - 130)	

TestAmerica Savannah

Client Sample ID: WGR-BIGMO-BAS-VPA01D-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-005 Work Order #...: K96TL1AA Matrix.....: AIR
 Date Sampled...: 04/15/09 Date Received...: 04/16/09
 Prep Date.....: 04/20/09 Analysis Date...: 04/20/09
 Prep Batch #...: 9111260
 Dilution Factor: 1090685. Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	220000	ppb (v/v)
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	220000	ppb (v/v)
Chloromethane	ND	550000	ppb (v/v)
Vinyl chloride	ND	220000	ppb (v/v)
Bromomethane	ND	220000	ppb (v/v)
Chloroethane	ND	220000	ppb (v/v)
Trichlorofluoromethane	ND	220000	ppb (v/v)
1,1-Dichloroethene	ND	220000	ppb (v/v)
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220000	ppb (v/v)
Methylene chloride	ND	550000	ppb (v/v)
1,1-Dichloroethane	ND	220000	ppb (v/v)
cis-1,2-Dichloroethene	ND	220000	ppb (v/v)
Chloroform	ND	220000	ppb (v/v)
1,1,1-Trichloroethane	ND	220000	ppb (v/v)
Carbon tetrachloride	ND	220000	ppb (v/v)
Benzene	14000000	220000	ppb (v/v)
1,2-Dichloroethane	ND	220000	ppb (v/v)
Trichloroethene	ND	220000	ppb (v/v)
1,2-Dichloropropane	ND	220000	ppb (v/v)
cis-1,3-Dichloropropene	ND	220000	ppb (v/v)
Toluene	ND	220000	ppb (v/v)
trans-1,3-Dichloropropene	ND	220000	ppb (v/v)
1,1,2-Trichloroethane	ND	220000	ppb (v/v)
Tetrachloroethene	ND	220000	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	220000	ppb (v/v)
Chlorobenzene	ND	220000	ppb (v/v)
Ethylbenzene	ND	220000	ppb (v/v)
m-Xylene & p-Xylene	ND	220000	ppb (v/v)
o-Xylene	ND	220000	ppb (v/v)
Styrene	ND	220000	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	220000	ppb (v/v)
1,3,5-Trimethylbenzene	ND	220000	ppb (v/v)
1,2,4-Trimethylbenzene	ND	220000	ppb (v/v)
1,3-Dichlorobenzene	ND	220000	ppb (v/v)
1,4-Dichlorobenzene	ND	220000	ppb (v/v)
1,2-Dichlorobenzene	ND	220000	ppb (v/v)
Benzyl chloride	ND	440000	ppb (v/v)

(Continued on next page)

TestAmerica Savannah

Client Sample ID: WGK-BIGMO-BAS-VPA01D-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-005 Work Order #...: K96TL1AA Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,2,4-Trichloro- benzene	ND	1100000	ppb(v/v)
Hexachlorobutadiene	ND	1100000	ppb(v/v)
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
4-Bromofluorobenzene	90	(70 - 130)	

TestAmerica Savannah

Client Sample ID: WGK-BIGMO-BAS-SVE08D-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-006 Work Order #...: K96TM1AA Matrix.....: AIR
 Date Sampled...: 04/15/09 Date Received...: 04/16/09
 Prep Date.....: 04/20/09 Analysis Date...: 04/20/09
 Prep Batch #...: 9111260
 Dilution Factor: 1058740 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Dichlorodifluoromethane	ND	210000	ppb (v/v)
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	210000	ppb (v/v)
Chloromethane	ND	530000	ppb (v/v)
Vinyl chloride	ND	210000	ppb (v/v)
Bromomethane	ND	210000	ppb (v/v)
Chloroethane	ND	210000	ppb (v/v)
Trichlorofluoromethane	ND	210000	ppb (v/v)
1,1-Dichloroethene	ND	210000	ppb (v/v)
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210000	ppb (v/v)
Methylene chloride	ND	530000	ppb (v/v)
1,1-Dichloroethane	ND	210000	ppb (v/v)
cis-1,2-Dichloroethene	ND	210000	ppb (v/v)
Chloroform	ND	210000	ppb (v/v)
1,1,1-Trichloroethane	ND	210000	ppb (v/v)
Carbon tetrachloride	ND	210000	ppb (v/v)
Benzene	21000000	210000	ppb (v/v)
1,2-Dichloroethane	ND	210000	ppb (v/v)
Trichloroethene	ND	210000	ppb (v/v)
1,2-Dichloropropane	ND	210000	ppb (v/v)
cis-1,3-Dichloropropene	ND	210000	ppb (v/v)
Toluene	ND	210000	ppb (v/v)
trans-1,3-Dichloropropene	ND	210000	ppb (v/v)
1,1,2-Trichloroethane	ND	210000	ppb (v/v)
Tetrachloroethene	ND	210000	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	210000	ppb (v/v)
Chlorobenzene	ND	210000	ppb (v/v)
Ethylbenzene	ND	210000	ppb (v/v)
m-Xylene & p-Xylene	ND	210000	ppb (v/v)
o-Xylene	ND	210000	ppb (v/v)
Styrene	ND	210000	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	210000	ppb (v/v)
1,3,5-Trimethylbenzene	ND	210000	ppb (v/v)
1,2,4-Trimethylbenzene	ND	210000	ppb (v/v)
1,3-Dichlorobenzene	ND	210000	ppb (v/v)
1,4-Dichlorobenzene	ND	210000	ppb (v/v)
1,2-Dichlorobenzene	ND	210000	ppb (v/v)
Benzyl chloride	ND	420000	ppb (v/v)

(Continued on next page)

TestAmerica Savannah

Client Sample ID: W GK-BIGMO-BAS-SVE08D-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-006 Work Order #...: K96TM1AA Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,2,4-Trichloro- benzene	ND	1100000	ppb (v/v)
Hexachlorobutadiene	ND	1100000	ppb (v/v)
	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
<u>SURROGATE</u>			
4-Bromofluorobenzene	93	(70 - 130)	

TestAmerica Savannah

Client Sample ID: W GK-BIGMO-BAS-VP09S-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-007 Work Order #...: K96TN1AA Matrix.....: AIR
 Date Sampled...: 04/15/09 Date Received...: 04/16/09
 Prep Date.....: 04/20/09 Analysis Date...: 04/20/09
 Prep Batch #...: 9111260
 Dilution Factor: 1120876. Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	220000	ppb (v/v)
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	220000	ppb (v/v)
Chloromethane	ND	560000	ppb (v/v)
Vinyl chloride	ND	220000	ppb (v/v)
Bromomethane	ND	220000	ppb (v/v)
Chloroethane	ND	220000	ppb (v/v)
Trichlorofluoromethane	ND	220000	ppb (v/v)
1,1-Dichloroethene	ND	220000	ppb (v/v)
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220000	ppb (v/v)
Methylene chloride	ND	560000	ppb (v/v)
1,1-Dichloroethane	ND	220000	ppb (v/v)
cis-1,2-Dichloroethene	ND	220000	ppb (v/v)
Chloroform	ND	220000	ppb (v/v)
1,1,1-Trichloroethane	ND	220000	ppb (v/v)
Carbon tetrachloride	ND	220000	ppb (v/v)
Benzene	54000000	220000	ppb (v/v)
1,2-Dichloroethane	ND	220000	ppb (v/v)
Trichloroethene	ND	220000	ppb (v/v)
1,2-Dichloropropane	ND	220000	ppb (v/v)
cis-1,3-Dichloropropene	ND	220000	ppb (v/v)
Toluene	ND	220000	ppb (v/v)
trans-1,3-Dichloropropene	ND	220000	ppb (v/v)
1,1,2-Trichloroethane	ND	220000	ppb (v/v)
Tetrachloroethene	ND	220000	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	220000	ppb (v/v)
Chlorobenzene	ND	220000	ppb (v/v)
Ethylbenzene	ND	220000	ppb (v/v)
m-Xylene & p-Xylene	ND	220000	ppb (v/v)
o-Xylene	ND	220000	ppb (v/v)
Styrene	ND	220000	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	220000	ppb (v/v)
1,3,5-Trimethylbenzene	ND	220000	ppb (v/v)
1,2,4-Trimethylbenzene	ND	220000	ppb (v/v)
1,3-Dichlorobenzene	ND	220000	ppb (v/v)
1,4-Dichlorobenzene	ND	220000	ppb (v/v)
1,2-Dichlorobenzene	ND	220000	ppb (v/v)
Benzyl chloride	ND	450000	ppb (v/v)

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TestAmerica Savannah

Client Sample ID: WGK-BIGMO-BAS-VP09S-V

GC/MS Volatiles

Lot-Sample #...: H9D160140-007 Work Order #...: K96TN1AA Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,2,4-Trichloro- benzene	ND	1100000	ppb (v/v)
Hexachlorobutadiene	ND	1100000	ppb (v/v)
	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
<u>SURROGATE</u>			
4-Bromofluorobenzene	91	(70 - 130)	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H9D160140
 MB Lot-Sample #: H9D210000-260

Work Order #...: LAFT01AA

Matrix.....: AIR

Prep Date.....: 04/20/09

Analysis Date...: 04/20/09

Prep Batch #...: 9111260

Dilution Factor: 1

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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H9D160140

Work Order #...: LAFT01AA

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Hexachlorobutadiene	ND	1.0	ppb (v/v)	EPA-2 TO-15
	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
4-Bromofluorobenzene	93	(70 - 130)		

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 #...: H9D160140 Work Order #...: LAFT01AC Matrix.....: AIR
 LCS Lot-Sample#: H9D210000-260
 Prep Date.....: 04/20/09 Analysis Date...: 04/20/09
 Prep Batch #...: 9111260
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	110	(70 - 130)	EPA-2 TO-15
Benzene	106	(70 - 130)	EPA-2 TO-15
Trichloroethene	98	(70 - 130)	EPA-2 TO-15
Toluene	104	(70 - 130)	EPA-2 TO-15
Chlorobenzene	102	(70 - 130)	EPA-2 TO-15

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	102	(70 - 130)

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 #...: H9D160140 Work Order #...: LAFT01AC Matrix.....: AIR
 LCS Lot-Sample#: H9D210000-260
 Prep Date.....: 04/20/09 Analysis Date...: 04/20/09
 Prep Batch #...: 9111260
 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>
1,1-Dichloroethene	2.50	2.74	ppb (v/v)	110	EPA-2 TO-15
Benzene	2.50	2.64	ppb (v/v)	106	EPA-2 TO-15
Trichloroethene	2.50	2.46	ppb (v/v)	98	EPA-2 TO-15
Toluene	2.50	2.60	ppb (v/v)	104	EPA-2 TO-15
Chlorobenzene	2.50	2.56	ppb (v/v)	102	EPA-2 TO-15
<u>SURROGATE</u>		<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>		
4-Bromofluorobenzene		102	(70 - 130)		

NOTE(S) :

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

Bold print denotes control parameters

Sample Receipt Documentation

Serial Number 013982

179016014D

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Fax: (912) 352-0165

TestAmerica Savannah
5102 La Roche Avenue
Savannah, GA 31404

Alternative Laboratory Method Location:
417 Valley Dale Rd
Knoxville TN

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE	OF		
08013201	Solutia, Inc.	IL	COMPOSITE (C) OR GRAB (G) INDICATE	RESIDUALS	1	1		
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	AQUEOUS (WATER)		STANDARD REPORT DELIVERY			
6154 GVLIZIA(GA)			SOLID OR SEMISOLID		DATE DUE			
CLIENT (FIRM)	CLIENT PHONE	CLIENT FAX	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)		EXPEDITED REPORT DELIVERY (SURCHARGE)	0		
Scott Crawford	6037781100	1003778212	AIR		DATE DUE			
CLIENT NAME	CLIENT E-MAIL				NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	1 box		
XDDILL	crawford@xcel-ll.com				REMARKS			
CLIENT ADDRESS								
Statham, NH								
COMPANY CONTRACTING THIS WORK (if applicable)								
Solutia, Inc. - bill to + copy reflect.								
DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/15/09	1500	W6K-BI9MO-BAS-VF7S-V	G		X		1	
4/15/09	1510	W6K-BI9MO-BAS-SVEIAT-V	G		X		1	
4/15/09	1515	W6K-BI9MO-BAS-VPIIT-V	G		X		1	
4/15/09	1520	W6K-BI9MO-BAS-SVEP4S-V	G		X		1	
4/15/09	1525	W6K-BI9MO-BAS-VPA01D-V	G		X		1	
4/15/09	1525	W6K-BI9MO-BAS-SVEP8D-V	G		X		1	
4/15/09	1530	W6K-BI9MO-BAS-VP09S-V	G		X		1	
		NO CUSTODY SEALS						
		RECEIVED AT AMBIENT TEMP						
		BIO 4-16-09						
		100X FEV14						
		868322918751						
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[Signature]	4/15/09	1724	[Signature]			[Signature]		
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Fedex/Kinkos	4/15/09	1707	[Signature]	4-16-09	09:45	[Signature]		
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY SEAL NO.	CUSTODY INTACT	SAVANNAH LOG NO.	LABORATORY REMARKS		
			0	YES				
			0	NO				

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ Project: _____ Lot Number: HA010110

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; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	/			<input type="checkbox"/> 2a Temp Blank = _____ <input type="checkbox"/> 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?	/			<input type="checkbox"/> 3a Sample preservative = _____	
4. Were custody seals present/intact on cooler and/or containers?	/			<input checked="" 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)	
8. Were samples received in appropriate containers?	/			<input type="checkbox"/> 8a Improper container	
9. Did you check for residual chlorine, if necessary?	/			<input type="checkbox"/> 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	/			<input type="checkbox"/> 10a Holding time expired	
11. For rad samples, was sample activity info. provided?	/			<input type="checkbox"/> Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?	/			If yes & appears to be > 1%, was SOG notified? <input type="checkbox"/> 13a Leaking <input type="checkbox"/> 13b Other: _____	
13. Are the shipping containers intact?	/			<input type="checkbox"/> 14a Not relinquished <input type="checkbox"/> 15a Incomplete information <input type="checkbox"/> 15a Incomplete information <input type="checkbox"/> 15a Incomplete information	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> 15a Incomplete information	
15. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> 15a Incomplete information	
16. Is the matrix of the samples noted?	/			<input type="checkbox"/> 15a Incomplete information	
17. Is the date/time of sample collection noted?	/			<input type="checkbox"/> 15a Incomplete information	
18. Is the client and project name/# identified?	/			<input type="checkbox"/> 15a Incomplete information	
19. Was the sampler identified on the COC?	/			<input type="checkbox"/> 15a Incomplete information	
Quote #: _____				PM Instructions: _____	

Sample Receiving Associate: *[Signature]* Date: 4-11-09 QA026R19.doc, 080707