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FEB 3 2014
Superfund Section

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January 29, 2014

CERTIFIED MAIL / RETURN RECEIPT REQUESTED

Mr. Qu Qi, Central Regional Supervisor
NC Department of Environment and Natural Resources
Superfund Section - Inactive Hazardous Sites Branch
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Re: Former Hanesbrands Industrial Facility, 700 South Stratford Road
Winston-Salem, Forsyth County, North Carolina NONCD0002945

Dear Mr. Qi:

This letter supplements my letter to you of November 11, 2013 and our recent telephone conversations regarding the above referenced NC Brownfields Property (NC Brownfields Project Number 13016-09-34) which is being redeveloped by 700 South Stratford, LLC, the Brownfields Property Prospective Developer. During the course of this redevelopment, the Prospective Developer has conducted and continues to conduct environmental assessment activities on the Brownfields Property in accordance with an Environmental Management Plan approved by the NC Brownfields Program. Enclosed are copies of recent (2013) soil and soil vapor assessment results. I believe you already have a copy of the most recent (2009) groundwater sampling results. The Prospective Developer informed me that all groundwater monitoring wells have been closed, as directed by the Brownfields Program, in accordance with regulatory requirements.

As we discussed, the Prospective Developer has assumed the environmental liabilities for the Brownfields Property. You should direct your inquiries to Patrick Crosby, Jr., The Crown Companies, LLC, 121 N. Crutchfield St., P.O. Box 341, Dobson, NC 27107, patc@crown-companies.com.

I welcome our further discussions regarding this matter.

Sincerely,

Stephen R. Berlin

Enclosures
cc: Chris Fox, Hanesbrands Inc.
Tommy Thompson, Hanesbrands Inc.

WITHERS & RAVENEL

ENGINEERS | PLANNERS | SURVEYORS

LIMITED SOIL VAPOR ASSESSMENT

Former Hanesbrands Industrial Facility
700 South Stratford Road
Winston-Salem, Forsyth County, North Carolina
W&R Project No. 02090145.10

Prepared for:

700 South Stratford, LLC
PO Box 341
Dobson, North Carolina 27017

Prepared by:

Withers & Ravenel, Inc.
115 MacKenan Drive
Cary, North Carolina 27511

October 23, 2013

October 23, 2013

700 South Stratford, LLC
PO Box 341
Dobson, North Carolina 27017

Attn: Mr. Sam Holder

RE: **Soil Vapor Assessment Report**
700 South Stratford, LLC
Former Hanesbrands Industrial Facility
700 Stratford Street
Winston-Salem, Forsyth County, North Carolina
W&R Project No. 02090145.10

Mr. Holder:

Withers & Ravenel, Inc. (W&R) is pleased to submit this report describing soil vapor assessment activities for the above referenced property. This initial soil vapor assessment work focused on the portions of the property that will be developed with anchor tenant buildings. The outparcel lots abutting South Stratford Road were not included in this limited soil vapor study.

The above referenced property has been used for industrial purposes since the early 1900's. Previous groundwater assessment activities identified chlorinated solvent impacts to groundwater and petroleum motor fuel related hydrocarbon impacts to both soil and groundwater. The October 2013 limited soil vapor assessment activities have identified various volatile organic compounds in each of the five soil vapor samples collected from probes installed across the central portion of the property. Each sample contained one or more constituents with concentrations above their respective residential soil vapor screening levels established by the NC Division of Waste Management's Inactive Hazardous Sites Branch. One of the soil vapor samples was reported to contain concentrations of tetrachloroethene and trichloroethene in soil vapor at concentrations above the industrial/commercial soil vapor screening levels established by the Inactive Hazardous Sites Branch.

The available data suggests that soil vapor on the property has been impaired. Based on the identified concentrations of a number of constituents above the current regulatory screening limits future buildings on the property should be provided with a vapor barrier system.

Please do not hesitate to contact us with any questions or comments in this matter.

Sincerely,
WITHERS & RAVENEL, INC.

C. Chan Bryant

C. Chan Bryant, P.E.
Senior Project Engineer / Vice President Environmental Services

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2 Field Activities 1
3 Results of Soil Vapor Sample Analyses 2
4 Recommendations 2

FIGURES

No. 1 Soil Vapor Results Map

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Table 1 Summary of Soil Vapor Sampling Results – VOCS

APPENDICES

Appendix A Laboratory Reports and Chain of Custody Forms

1 Background

Withers & Ravenel (W&R) has performed a soil vapor assessment on property located at 700 Stratford Road in Winston Salem, Forsyth County, North Carolina (**Figure 1**). At the time of the assessment activities the property contained vacant buildings and improvements that were used by the Hanesbrands in the operation of a textile manufacturing plant. In 2009, at the request of the prospective developer of the property, W&R performed a limited Phase II ESA, which involved the collection of groundwater samples in several areas on the property. Laboratory analyses of groundwater samples indicated the presence of several constituents in one or more of the groundwater wells that were installed onsite which include; tetrachloroethene (PCE), lead, benzene, isopropylbenzene, p-isopropylbenzene, naphthalene, 1,2,3-trimethylbenzene, 1,3,5-trimethylbenzene, total xylenes, and barium. Other historical investigations involving the petroleum underground storage tanks (USTs) once operated on the property have identified areas of soil and groundwater contamination from petroleum hydrocarbons.

The prospective developer of the property has filed an application with the NC Brownfields Program and intends to finalize a Brownfields Property Agreement (BPA) so that the property may be developed for commercial use. The prospective developer has engaged a consulting engineer to develop a site plan which shows building pads on the central portion of the property. Several outparcel lots are shown on the plans which abut Stratford Road. Soil vapor assessment activities were limited to the area of the building pads on the central portion of the property and not the outparcel lots at the request of the prospective developer.

2 Field Activities

Five temporary soil vapor points (SVP-1 through SVP-5) were installed on the subject property during the October 3, 2013 assessment activities. The 6-inch long screened portion of the soil vapor probes was placed between 5.5 feet and 6.5 feet below ground surface (BGS) with the exception of SVP-3 which was placed at 11.5 to 12.0 feet BGS. The depth of probe SVP-3 was installed slightly deeper than the other probes because the grading plan developed for the site indicated that the area of SVP-3 would be cut. The interstitial space between the soil vapor screen and boring wall was filled with sand to a minimum of six inches over the top of the screen. A hydrated bentonite seal was brought from top of sand to one half foot below ground surface. The temporary soil vapor point locations are shown on the attached **Figure 1.**

W&R collected samples from the soil vapor points on October 3, 2013. Each soil vapor point was purged with a Foxboro TVA 1000B® Flame Ionization Detector (FID)/Photo-ionization Detector (PID) prior to sample collection. Soil vapor samples were collected in a clean, laboratory supplied 1.2 liter suma canister and a low flow regulator. The soil vapor samples were transported to Environmental Science Corp. (ESC) located in Mt. Juliet, Tennessee under proper chain of custody for Analyses of volatile organics by Method TO-15.

3 Results of Soil Vapor Sample Analyses

The results of the soil vapor sample analyses identified numerous constituents in each of the five samples with concentrations above the method reporting limit. The constituents were typical of those W&R has observed in soil vapor at other industrial and commercial properties. Each of the five samples contained concentrations of one or more constituents at levels greater than the residential soil vapor screening levels established by the NC Division of Waste Management's Inactive Hazardous Sites Branch. One of the soil vapor samples, SVP-5, was reported to contain concentrations of PCE and trichloroethene (TCE) at levels greater than the Inactive Hazardous Sites Branch industrial / commercial screening levels. Two additional samples were reported to contain 1,3-butadiene at a concentration greater than the Inactive Hazardous Sites Branch industrial / commercial screening levels. The attached **Figure 1** shows the constituents detected at each soil vapor probe location. A copy of the laboratory report is included in the appendices.

4 Recommendations

Based on the available assessment data, W&R recommends that all buildings be provided with a vapor barrier system to reduce the potential for soil vapor intrusion. The results of this investigation will be a component of an overall vapor mitigation plan that is required by the NC Brownfields Program for this project. Although this report is limited in scope and intended to only provide localized information from which to determine whether vapor barriers are required for the future commercial buildings to be constructed on this property, this report should be provided to Hanesbrands so that this data can be considered in their pursuit of satisfying obligations of the NC Division of Waste Management Inactive Hazardous Sites Branch. This investigation, however, is not intended to satisfy any portion of Hanesbrands obligation to comply with the Inactive Hazardous Sites Branch requirements for the site.

It has been our pleasure to work with you in this capacity. Please do not hesitate to contact us at (919) 469-3340 with any questions or comments regarding this work.

Sincerely,

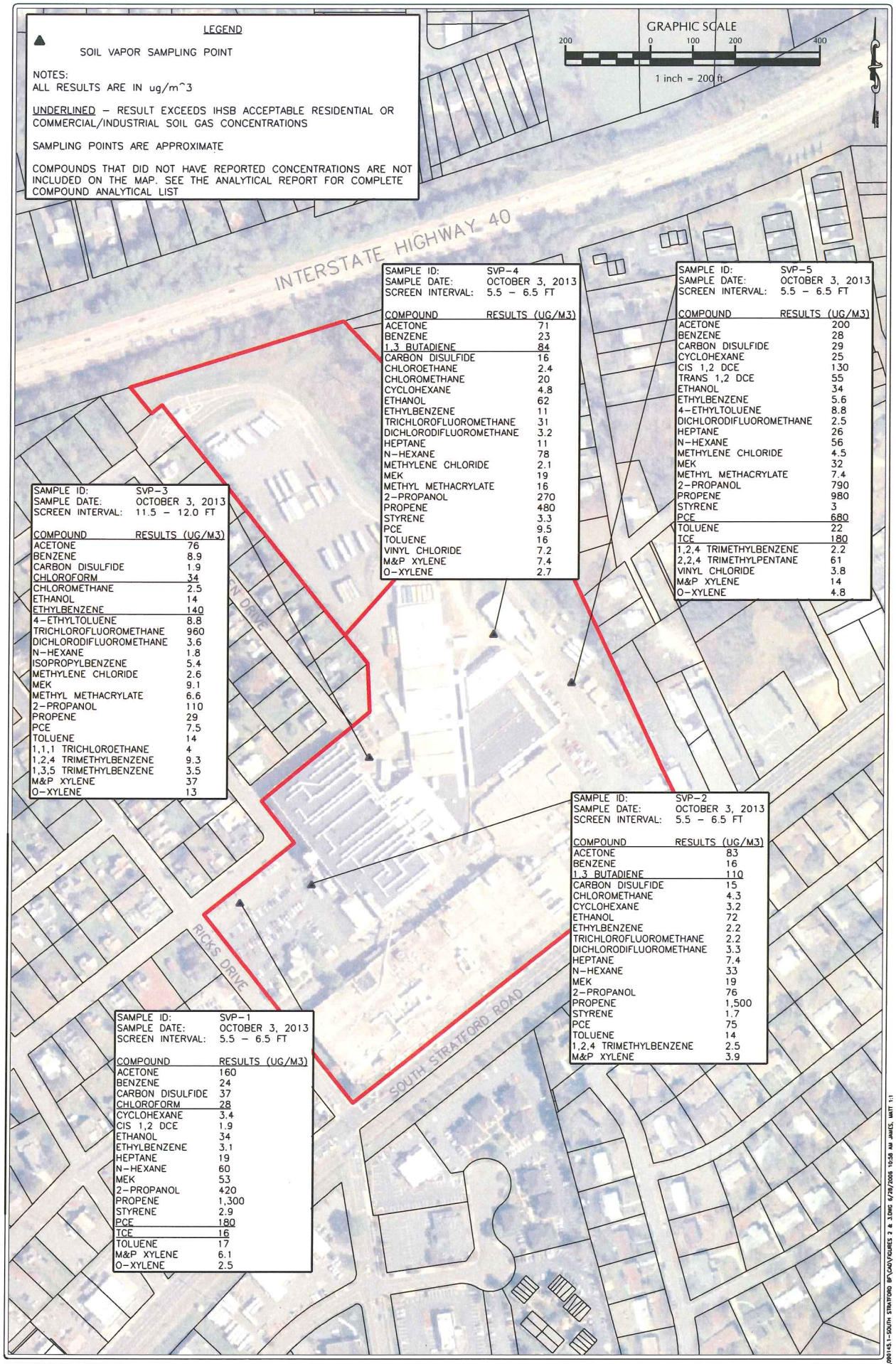
WITHERS & RAVENEL, INC.

C. Chan Bryant

C. Chan Bryant, P.E.
Senior Project Engineer / Vice President Environmental Services

Attachments

FIGURE



SAMPLE ID: SVP-4
SAMPLE DATE: OCTOBER 3, 2013
SCREEN INTERVAL: 5.5 – 6.5 FT

COMPOUND	RESULTS (UG/M3)
ACETONE	71
BENZENE	23
1,3 BUTADIENE	84
CARBON DISULFIDE	16
CHLOROETHANE	2.4
CHLOROMETHANE	20
CYCLOHEXANE	4.8
ETHANOL	62
ETHYLBENZENE	11
TRICHLOROFLUOROMETHANE	31
DICHLORODIFLUOROMETHANE	3.2
HEPTANE	11
N-HEXANE	78
METHYLENE CHLORIDE	2.1
MEK	19
METHYL METHACRYLATE	16
2-PROPANOL	270
PROPENE	480
STYRENE	3.3
PCE	9.5
TOLUENE	16
VINYL CHLORIDE	7.2
M&P XYLENE	7.4
O-XYLENE	2.7

SAMPLE ID: SVP-5
SAMPLE DATE: OCTOBER 3, 2013
SCREEN INTERVAL: 5.5 – 6.5 FT

COMPOUND	RESULTS (UG/M3)
ACETONE	200
BENZENE	28
CARBON DISULFIDE	29
CYCLOHEXANE	25
CIS 1,2 DCE	130
TRANS 1,2 DCE	55
ETHANOL	34
ETHYLBENZENE	5.6
4-ETHYLTOLUENE	8.8
DICHLORODIFLUOROMETHANE	2.5
HEPTANE	26
N-HEXANE	56
METHYLENE CHLORIDE	4.5
MEK	32
METHYL METHACRYLATE	7.4
2-PROPANOL	790
PROPENE	980
STYRENE	3
PCE	680
TOLUENE	22
TCE	180
1,2,4 TRIMETHYLBENZENE	2.2
2,2,4 TRIMETHYLPENTANE	61
VINYL CHLORIDE	3.8
M&P XYLENE	14
O-XYLENE	4.8

SAMPLE ID: SVP-3
SAMPLE DATE: OCTOBER 3, 2013
SCREEN INTERVAL: 11.5 – 12.0 FT

COMPOUND	RESULTS (UG/M3)
ACETONE	76
BENZENE	8.9
CARBON DISULFIDE	1.9
CHLOROFORM	34
CHLOROMETHANE	2.5
ETHANOL	14
ETHYLBENZENE	140
4-ETHYLTOLUENE	8.8
TRICHLOROFLUOROMETHANE	960
DICHLORODIFLUOROMETHANE	3.6
N-HEXANE	1.8
ISOPROPYLBENZENE	5.4
METHYLENE CHLORIDE	2.6
MEK	9.1
METHYL METHACRYLATE	6.6
2-PROPANOL	110
PROPENE	29
PCE	7.5
TOLUENE	14
1,1,1 TRICHLOROETHANE	4
1,2,4 TRIMETHYLBENZENE	9.3
1,3,5 TRIMETHYLBENZENE	3.5
M&P XYLENE	37
O-XYLENE	13

SAMPLE ID: SVP-2
SAMPLE DATE: OCTOBER 3, 2013
SCREEN INTERVAL: 5.5 – 6.5 FT

COMPOUND	RESULTS (UG/M3)
ACETONE	83
BENZENE	16
1,3 BUTADIENE	110
CARBON DISULFIDE	15
CHLOROMETHANE	4.3
CYCLOHEXANE	3.2
ETHANOL	72
ETHYLBENZENE	2.2
TRICHLOROFLUOROMETHANE	2.2
DICHLORODIFLUOROMETHANE	3.3
HEPTANE	7.4
N-HEXANE	33
MEK	19
2-PROPANOL	76
PROPENE	1,500
STYRENE	1.7
PCE	75
TOLUENE	14
1,2,4 TRIMETHYLBENZENE	2.5
M&P XYLENE	3.9

SAMPLE ID: SVP-1
SAMPLE DATE: OCTOBER 3, 2013
SCREEN INTERVAL: 5.5 – 6.5 FT

COMPOUND	RESULTS (UG/M3)
ACETONE	160
BENZENE	24
CARBON DISULFIDE	37
CHLOROFORM	28
CYCLOHEXANE	3.4
CIS 1,2 DCE	1.9
ETHANOL	34
ETHYLBENZENE	3.1
HEPTANE	19
N-HEXANE	60
MEK	53
2-PROPANOL	420
PROPENE	1,300
STYRENE	2.9
PCE	180
TCE	16
TOLUENE	17
M&P XYLENE	6.1
O-XYLENE	2.5

WITHERS & RAVENEL
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HANESBRANDS INDUSTRIAL FACILITY
700 SOUTH STRATFORD ROAD
WINSTON-SALEM, NORTH CAROLINA

SOIL VAPOR PROBE RESULTS MAP
OCTOBER 3, 2013

Drawn By	Scale
MJ	1"=200'
Checked By	Date
CCB	10/18/13

Job No. 02090145
Sheet No. 1

K:\09\09-0145\09014511-SOUTH STRATFORD BP\CAD\FIGURES 2 & 3.DWG 6/28/2006 10:58 AM JAMES, MATT 1:1

TABLE

TABLE 1
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS
Hanesbrands Industrial Facility
700 South Stratford Road
Winston-Salem, Forsyth County, NC
W&R Project #: 02090145.0

Client Sample ID			IHSB Acceptable Industrial/Commercial Soil Gas Concentration	IHSB Acceptable Residential Soil Gas Concentration (ug/m3)	SVP-1	SVP-2	SVP-3	SVP-4	SVP-5
Collect Date					10/3/2013	10/3/2013	10/3/2013	10/3/2013	10/3/2013
Method	Parameter	CAS #			Results (in ug/m^3)				
TO-15	Acetone	67-64-1	**280000**	**64000**	**160**	**83**	**76**	**71**	**200**
TO-15	Allyl chloride	107-05-1	NL	NL	<1.25	<1.25	<1.25	<1.25	<1.25
TO-15	Benzene	71-43-2	**160**	**31.0**	**24**	**16**	**8.9**	**23**	**28**
TO-15	Benzyl Chloride	100-44-7	8.80	2.0	<2.08	<2.08	<2.08	<2.08	<2.08
TO-15	Bromodichloromethane	75-27-4	33	6.6	<2.68	<2.68	<2.68	<2.68	<2.68
TO-15	Bromoform	75-25-2	1100	220	<12.4	<12.4	<12.4	<12.4	<12.4
TO-15	Bromomethane	74-83-9	NL	NL	<1.55	<1.55	<1.55	<1.55	<1.55
TO-15	1,3-Butadiene	106-99-0	17.6	4.2	<8.85	**110**	<8.85	**84**	<8.85
TO-15	Carbon disulfide	75-15-0	**6200**	**1460**	**37**	**15**	**1.9**	**16**	**29**
TO-15	Carbon tetrachloride	56-23-5	82	41	<2.52	<2.52	<2.52	<2.52	<2.52
TO-15	Chlorobenzene	108-90-7	440	104	<1.85	<1.85	<1.85	<1.85	<1.85
TO-15	Chloroethane	75-00-3	NL	NL	<1.06	<1.06	<1.06	**2.4**	<1.06
TO-15	Chloroform	67-66-3	53.0	11.0	**28**	<1.95	**34**	<1.95	<1.95
TO-15	Chloromethane	74-87-3	**780**	**188**	<0.826	**4.3**	**2.5**	**20**	<0.826
TO-15	2-Chlorotoluene	95-49-8	NL	NL	<2.06	<2.06	<2.06	<2.06	<2.06
TO-15	Cyclohexane	110-82-7	NL	NL	**3.4**	**3.2**	<1.38	**4.8**	**25**
TO-15	Dibromochloromethane	124-48-1	45	9.0	<3.40	<3.40	<3.40	<3.40	<3.40
TO-15	1,2-Dibromoethane	106-93-4	2	0.41	<3.08	<3.08	<3.08	<3.08	<3.08
TO-15	1,2-Dichlorobenzene	95-50-1	1760	420	<2.40	<2.40	<2.40	<2.40	<2.40
TO-15	1,3-Dichlorobenzene	541-73-1	NL	NL	<2.40	<2.40	<2.40	<2.40	<2.40
TO-15	1,4-Dichlorobenzene	106-46-7	110	22	<2.40	<2.40	<2.40	<2.40	<2.40
TO-15	1,2-Dichloroethane	107-06-2	47.0	9.40	<1.62	<1.62	<1.62	<1.62	<1.62
TO-15	1,1-Dichloroethane	75-34-3	770	150	<1.60	<1.60	<1.60	<1.60	<1.60
TO-15	1,1-Dichloroethene	75-35-4	1760	420	<1.59	<1.59	<1.59	<1.59	<1.59
TO-15	cis-1,2-Dichloroethene	156-59-2	NL	NL	**1.9**	<1.59	<1.59	<1.59	**130**
TO-15	trans-1,2-Dichloroethene	156-60-5	520	126	<1.59	<1.59	<1.59	<1.59	**55**
TO-15	1,2-Dichloropropane	78-87-5	36.0	8.40	<1.85	<1.85	<1.85	<1.85	<1.85
TO-15	cis-1,3-Dichloropropene	10061-01-	NL	NL	<1.82	<1.82	<1.82	<1.82	<1.82
TO-15	trans-1,3-Dichloropropene	10061-02-	NL	NL	<1.82	<1.82	<1.82	<1.82	<1.82
TO-15	1,4-Dioxane	123-91-1	NL	NL	<1.44	<1.44	<1.44	<1.44	<1.44
TO-15	Ethanol	64-17-5	NL	NL	**34**	**72**	**14**	**62**	**34**
TO-15	Ethylbenzene	100-41-4	**490**	**97.0**	**3.1**	**2.2**	**140**	**11**	**5.6**
TO-15	4-Ethyltoluene	622-96-8	NL	NL	<1.96	<1.96	**8.8**	<1.96	<1.96
TO-15	Trichlorofluoromethane	75-69-4	**6200**	**1460**	<2.25	**2.2**	**960**	**31**	<2.25
TO-15	Dichlorodifluoromethane	75-71-8	**880**	**200**	<1.98	**3.3**	**3.6**	**3.2**	**2.5**
TO-15	1,1,2-Trichlorotrifluoroethane	76-13-1	260000	62000	<3.07	<3.07	<3.07	<3.07	<3.07
TO-15	1,2-Dichlorotetrafluoroethane	76-14-2	NL	NL	<2.80	<2.80	<2.80	<2.80	<2.80
TO-15	Heptane	142-82-5	NL	NL	**19**	**7.4**	<1.64	**11**	**26**
TO-15	Hexachloro-1,3-butadiene	87-68-3	NL	NL	<13.5	<13.5	<13.5	<13.5	<13.5
TO-15	n-Hexane	110-54-3	**6200**	**1460**	**60**	**33**	**1.8**	**78**	**56**
TO-15	Isopropylbenzene	98-82-8	NL	NL	<1.97	<1.97	**5.4**	<1.97	<1.97
TO-15	Methylene Chloride	75-09-2	**5300**	**1300**	<1.39	<1.39	**2.6**	**2.1**	**4.5**
TO-15	Methyl Butyl Ketone	591-78-6	NL	NL	<10.2	<10.2	<10.2	<10.2	<10.2
TO-15	2-Butanone (MEK)	78-93-3	**44000**	**10400**	**53**	**19**	**9.1**	**19**	**32**
TO-15	4-Methyl-2-pentanone (MIBK)	108-10-1	26000	6200	<10.2	<10.2	<10.2	<10.2	<10.2
TO-15	Methyl methacrylate	80-62-6	**6200**	**1460**	<1.64	<1.64	**6.6**	**16**	**7.4**
TO-15	MTBE	1634-04-4	4700	940	<1.44	<1.44	<1.44	<1.44	<1.44
TO-15	Naphthalene	91-20-3	26.0	6.20	<6.60	<6.60	<6.60	<6.60	<6.60
TO-15	2-Propanol	67-63-0	NL	NL	**420**	**76**	**110**	**270**	**790**
TO-15	Propene	115-07-1	NL	NL	**1300**	**1500**	**29**	**480**	**980**
TO-15	Styrene	100-42-5	**8800**	**2000**	**2.9**	**1.7**	<1.70	**3.3**	**3**
TO-15	1,1,2,2-Tetrachloroethane	79-34-5	21	4.2	<2.75	<2.75	<2.75	<2.75	<2.75
TO-15	Tetrachloroethylene	127-18-4	**350**	**83.4**	**180**	**75**	**7.5**	**9.5**	**680**
TO-15	Tetrahydrofuran	109-99-9	NL	NL	<1.18	<1.18	<1.18	<1.18	<1.18
TO-15	Toluene	108-88-3	**44000**	**10400**	**17**	**14**	**14**	**16**	**22**
TO-15	1,2,4-Trichlorobenzene	120-82-1	17.6	4.20	<9.33	<9.33	<9.33	<9.33	<9.33
TO-15	1,1,1-Trichloroethane	71-55-6	44000	10400	<2.18	<2.18	**4**	<2.18	<2.18
TO-15	1,1,2-Trichloroethane	79-00-5	1.8	0.42	<2.18	<2.18	<2.18	<2.18	<2.18
TO-15	Trichloroethylene	79-01-6	17.6	4.20	**16**	<2.14	<2.14	<2.14	**180**
TO-15	1,2,4-Trimethylbenzene	95-63-6	62.0	14.6	<1.96	**2.5**	**9.3**	<1.96	**2.2**
TO-15	1,3,5-Trimethylbenzene	108-67-8	NL	NL	<1.96	<1.96	**3.5**	<1.96	<1.96
TO-15	2,2,4-Trimethylpentane	540-84-1	NL	NL	<1.87	<1.87	<1.87	<1.87	**61**
TO-15	Vinyl chloride	75-01-4	**280**	**16**	<1.02	<1.02	<1.02	**7.2**	**3.8**
TO-15	Vinyl Bromide	593-60-2	NL	NL	<1.75	<1.75	<1.75	<1.75	<1.75
TO-15	Vinyl acetate	108-05-4	1760	420	<1.41	<1.41	<1.41	<1.41	<1.41
TO-15	m&p-Xylene	1330-20-7	880	200	**6.1**	**3.9**	**37**	**7.4**	**14**
TO-15	o-Xylene	95-47-6	880	200	**2.5**	<1.73	**13**	**2.7**	**4.8**

Notes:

BOLD Result exceeds laboratory detection limit.

BOLD Result exceeds IHSB Acceptable Residential Soil Gas Concentration published in July 2012.

BOLD Result exceeds IHSB Acceptable Industrial/Commercial Soil Gas Concentration published in July 2012.

IHSB Inactive Hazardous Sites Branch.

µg/m3 Micrograms per milli liter cubed.

NL No Listing.

2-Propanol was used as a tracer gas

APPENDIX A

LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Chris Fay
Withers & Ravenel Eng. - Standard
111 MacKenan Drive
Cary, NC 27511

Report Summary

Friday October 11, 2013

Report Number: L661676
Samples Received: 10/05/13
Client Project: 02090145

Description: Hanesbrands

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Alan Harvill

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Chris Fay
Withers & Ravenel Eng. - Standard
111 MacKenan Drive
Cary, NC 27511

October 11, 2013

ESC Sample # : L661676-01

Date Received : October 05, 2013
Description : Hanesbrands

Site ID :

Sample ID : SVP-1 6 FT

Project # : 02090145

Collected By : Chris Fay
Collection Date : 10/03/13 13:25

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	31.2	74.0	66.	160	TO-15	10/09/13	25
Allyl chloride	107-05-1	76.53	0.400	1.30	< 0.40	< 1.3	TO-15	10/08/13	2
Benzene	71-43-2	78.1	0.400	1.30	7.4	24.	TO-15	10/08/13	2
Benzyl Chloride	100-44-7	127	0.400	2.10	< 0.40	< 2.1	TO-15	10/08/13	2
Bromodichloromethane	75-27-4	164	0.400	2.70	< 0.40	< 2.7	TO-15	10/08/13	2
Bromoform	75-25-2	253	1.20	12.0	< 1.2	< 12.	TO-15	10/08/13	2
Bromomethane	74-83-9	94.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
1,3-Butadiene	106-99-0	54.1	4.00	8.90	< 4.0	< 8.9	TO-15	10/08/13	2
Carbon disulfide	75-15-0	76.1	0.400	1.20	12.	37.	TO-15	10/08/13	2
Carbon tetrachloride	56-23-5	154	0.400	2.50	< 0.40	< 2.5	TO-15	10/08/13	2
Chlorobenzene	108-90-7	113	0.400	1.80	< 0.40	< 1.8	TO-15	10/08/13	2
Chloroethane	75-00-3	64.5	0.400	1.10	< 0.40	< 1.1	TO-15	10/08/13	2
Chloroform	67-66-3	119	0.400	1.90	5.8	28.	TO-15	10/08/13	2
Chloromethane	74-87-3	50.5	0.400	0.830	< 0.40	< 0.83	TO-15	10/08/13	2
2-Chlorotoluene	95-49-8	126	0.400	2.10	< 0.40	< 2.1	TO-15	10/08/13	2
Cyclohexane	110-82-7	84.2	0.400	1.40	1.0	3.4	TO-15	10/08/13	2
Dibromochloromethane	124-48-1	208	0.400	3.40	< 0.40	< 3.4	TO-15	10/08/13	2
1,2-Dibromoethane	106-93-4	188	0.400	3.10	< 0.40	< 3.1	TO-15	10/08/13	2
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/08/13	2
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/08/13	2
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/08/13	2
1,2-Dichloroethane	107-06-2	99	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	0.48	1.9	TO-15	10/08/13	2
trans-1,2-Dichloroethene	156-60-5	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
1,2-Dichloropropane	78-87-5	113	0.400	1.80	< 0.40	< 1.8	TO-15	10/08/13	2
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.80	< 0.40	< 1.8	TO-15	10/08/13	2
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.80	< 0.40	< 1.8	TO-15	10/08/13	2
1,4-Dioxane	123-91-1	88.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/08/13	2
Ethanol	64-17-5	46.1	1.26	2.40	18.	34.	TO-15	10/08/13	2
Ethylbenzene	100-41-4	106	0.400	1.70	0.71	3.1	TO-15	10/08/13	2
4-Ethyltoluene	622-96-8	120	0.400	2.00	< 0.40	< 2.0	TO-15	10/08/13	2
Trichlorofluoromethane	75-69-4	137.4	0.400	2.20	< 0.40	< 2.2	TO-15	10/08/13	2
Dichlorodifluoromethane	75-71-8	120.92	0.400	2.00	< 0.40	< 2.0	TO-15	10/08/13	2
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.400	3.10	< 0.40	< 3.1	TO-15	10/08/13	2
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	< 0.40	< 2.8	TO-15	10/08/13	2
Heptane	142-82-5	100	0.400	1.60	4.6	19.	TO-15	10/08/13	2
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.0	< 1.3	< 13.	TO-15	10/08/13	2
n-Hexane	110-54-3	86.2	0.400	1.40	17.	60.	TO-15	10/08/13	2
Isopropylbenzene	98-82-8	120.2	0.400	2.00	< 0.40	< 2.0	TO-15	10/08/13	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	< 0.40	< 1.4	TO-15	10/08/13	2
Methyl Butyl Ketone	591-78-6	100	2.50	10.0	< 2.5	< 10.	TO-15	10/08/13	2

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Chris Fay
Withers & Ravenel Eng. - Standard
111 MacKenan Drive
Cary, NC 27511

October 11, 2013

ESC Sample # : L661676-01

Date Received : October 05, 2013
Description : Hanesbrands

Site ID :

Sample ID : SVP-1 6 FT

Project # : 02090145

Collected By : Chris Fay
Collection Date : 10/03/13 13:25

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
2-Butanone (MEK)	78-93-3	72.1	2.50	7.40	18.	53.	TO-15	10/08/13	2
4-Methyl-2-pentanone (MIBK)	108-10-1	100.1	2.50	10.0	< 2.5	< 10.	TO-15	10/08/13	2
Methyl methacrylate	80-62-6	100.12	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
MTBE	1634-04-4	88.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/08/13	2
Naphthalene	91-20-3	128	1.26	6.60	< 1.3	< 6.6	TO-15	10/08/13	2
2-Propanol	67-63-0	60.1	31.2	77.0	170	420	TO-15	10/09/13	25
Propene	115-07-1	42.1	80.0	140.	760	1300	TO-15	10/10/13	200
Styrene	100-42-5	104	0.400	1.70	0.69	2.9	TO-15	10/08/13	2
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.70	< 0.40	< 2.7	TO-15	10/08/13	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	26.	180	TO-15	10/08/13	2
Tetrahydrofuran	109-99-9	72.1	0.400	1.20	< 0.40	< 1.2	TO-15	10/08/13	2
Toluene	108-88-3	92.1	0.400	1.50	4.6	17.	TO-15	10/08/13	2
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.30	< 1.3	< 9.3	TO-15	10/08/13	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	10/08/13	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	10/08/13	2
Trichloroethylene	79-01-6	131	0.400	2.10	2.9	16.	TO-15	10/08/13	2
1,2,4-Trimethylbenzene	95-63-6	120	0.400	2.00	< 0.40	< 2.0	TO-15	10/08/13	2
1,3,5-Trimethylbenzene	108-67-8	120	0.400	2.00	< 0.40	< 2.0	TO-15	10/08/13	2
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.90	< 0.40	< 1.9	TO-15	10/08/13	2
Vinyl chloride	75-01-4	62.5	0.400	1.00	< 0.40	< 1.0	TO-15	10/08/13	2
Vinyl Bromide	593-60-2	106.95	0.400	1.70	< 0.40	< 1.7	TO-15	10/08/13	2
Vinyl acetate	108-05-4	86.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/08/13	2
m&p-Xylene	1330-20-7	106	0.800	3.50	1.4	6.1	TO-15	10/08/13	2
o-Xylene	95-47-6	106	0.400	1.70	0.58	2.5	TO-15	10/08/13	2
1,4-Bromofluorobenzene	460-00-4				99.4	% Rec.	TO-15	10/08/13	2

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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REPORT OF ANALYSIS

Chris Fay
Withers & Ravenel Eng. - Standard
111 MacKenan Drive
Cary, NC 27511

October 11, 2013

ESC Sample # : L661676-02

Date Received : October 05, 2013
Description : Hanesbrands

Site ID :

Sample ID : SVP-2 6 FT

Project # : 02090145

Collected By : Chris Fay
Collection Date : 10/03/13 13:35

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	25.0	59.0	35.	83.	TO-15	10/09/13	20
Allyl chloride	107-05-1	76.53	0.400	1.30	< 0.40	< 1.3	TO-15	10/08/13	2
Benzene	71-43-2	78.1	0.400	1.30	5.0	16.	TO-15	10/08/13	2
Benzyl Chloride	100-44-7	127	0.400	2.10	< 0.40	< 2.1	TO-15	10/08/13	2
Bromodichloromethane	75-27-4	164	0.400	2.70	< 0.40	< 2.7	TO-15	10/08/13	2
Bromoform	75-25-2	253	1.20	12.0	< 1.2	< 12.	TO-15	10/08/13	2
Bromomethane	74-83-9	94.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
1,3-Butadiene	106-99-0	54.1	40.0	89.0	50.	110	TO-15	10/09/13	20
Carbon disulfide	75-15-0	76.1	0.400	1.20	4.9	15.	TO-15	10/08/13	2
Carbon tetrachloride	56-23-5	154	0.400	2.50	< 0.40	< 2.5	TO-15	10/08/13	2
Chlorobenzene	108-90-7	113	0.400	1.80	< 0.40	< 1.8	TO-15	10/08/13	2
Chloroethane	75-00-3	64.5	0.400	1.10	< 0.40	< 1.1	TO-15	10/08/13	2
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	10/08/13	2
Chloromethane	74-87-3	50.5	0.400	0.830	2.1	4.3	TO-15	10/08/13	2
2-Chlorotoluene	95-49-8	126	0.400	2.10	< 0.40	< 2.1	TO-15	10/08/13	2
Cyclohexane	110-82-7	84.2	0.400	1.40	0.93	3.2	TO-15	10/08/13	2
Dibromochloromethane	124-48-1	208	0.400	3.40	< 0.40	< 3.4	TO-15	10/08/13	2
1,2-Dibromoethane	106-93-4	188	0.400	3.10	< 0.40	< 3.1	TO-15	10/08/13	2
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/08/13	2
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/08/13	2
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/08/13	2
1,2-Dichloroethane	107-06-2	99	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
trans-1,2-Dichloroethene	156-60-5	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
1,2-Dichloropropane	78-87-5	113	0.400	1.80	< 0.40	< 1.8	TO-15	10/08/13	2
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.80	< 0.40	< 1.8	TO-15	10/08/13	2
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.80	< 0.40	< 1.8	TO-15	10/08/13	2
1,4-Dioxane	123-91-1	88.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/08/13	2
Ethanol	64-17-5	46.1	1.26	2.40	38.	72.	TO-15	10/08/13	2
Ethylbenzene	100-41-4	106	0.400	1.70	0.50	2.2	TO-15	10/08/13	2
4-Ethyltoluene	622-96-8	120	0.400	2.00	< 0.40	< 2.0	TO-15	10/08/13	2
Trichlorofluoromethane	75-69-4	137.4	0.400	2.20	0.40	2.2	TO-15	10/08/13	2
Dichlorodifluoromethane	75-71-8	120.92	0.400	2.00	0.66	3.3	TO-15	10/08/13	2
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.400	3.10	< 0.40	< 3.1	TO-15	10/08/13	2
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	< 0.40	< 2.8	TO-15	10/08/13	2
Heptane	142-82-5	100	0.400	1.60	1.8	7.4	TO-15	10/08/13	2
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.0	< 1.3	< 13.	TO-15	10/08/13	2
n-Hexane	110-54-3	86.2	0.400	1.40	9.4	33.	TO-15	10/08/13	2
Isopropylbenzene	98-82-8	120.2	0.400	2.00	< 0.40	< 2.0	TO-15	10/08/13	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	< 0.40	< 1.4	TO-15	10/08/13	2
Methyl Butyl Ketone	591-78-6	100	2.50	10.0	< 2.5	< 10.	TO-15	10/08/13	2

RDL1 = ppbv , RDL2 = ug/m3
Note:
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REPORT OF ANALYSIS

Chris Fay
Withers & Ravenel Eng. - Standard
111 MacKenan Drive
Cary, NC 27511

October 11, 2013

ESC Sample # : L661676-02

Site ID :

Project # : 02090145

Date Received : October 05, 2013
Description : Hanesbrands

Sample ID : SVP-2 6 FT

Collected By : Chris Fay
Collection Date : 10/03/13 13:35

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
2-Butanone (MEK)	78-93-3	72.1	2.50	7.40	6.5	19.	TO-15	10/08/13	2
4-Methyl-2-pentanone (MIBK)	108-10-1	100.1	2.50	10.0	< 2.5	< 10.	TO-15	10/08/13	2
Methyl methacrylate	80-62-6	100.12	0.400	1.60	< 0.40	< 1.6	TO-15	10/08/13	2
MTBE	1634-04-4	88.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/08/13	2
Naphthalene	91-20-3	128	1.26	6.60	< 1.3	< 6.6	TO-15	10/08/13	2
2-Propanol	67-63-0	60.1	25.0	61.0	31.	76.	TO-15	10/09/13	20
Propene	115-07-1	42.1	64.0	110.	900	1500	TO-15	10/10/13	160
Styrene	100-42-5	104	0.400	1.70	0.40	1.7	TO-15	10/08/13	2
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.70	< 0.40	< 2.7	TO-15	10/08/13	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	11.	75.	TO-15	10/08/13	2
Tetrahydrofuran	109-99-9	72.1	0.400	1.20	< 0.40	< 1.2	TO-15	10/08/13	2
Toluene	108-88-3	92.1	0.400	1.50	3.7	14.	TO-15	10/08/13	2
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.30	< 1.3	< 9.3	TO-15	10/08/13	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	10/08/13	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	10/08/13	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	10/08/13	2
1,2,4-Trimethylbenzene	95-63-6	120	0.400	2.00	0.50	2.5	TO-15	10/08/13	2
1,3,5-Trimethylbenzene	108-67-8	120	0.400	2.00	< 0.40	< 2.0	TO-15	10/08/13	2
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.90	< 0.40	< 1.9	TO-15	10/08/13	2
Vinyl chloride	75-01-4	62.5	0.400	1.00	< 0.40	< 1.0	TO-15	10/08/13	2
Vinyl Bromide	593-60-2	106.95	0.400	1.70	< 0.40	< 1.7	TO-15	10/08/13	2
Vinyl acetate	108-05-4	86.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/08/13	2
m&p-Xylene	1330-20-7	106	0.800	3.50	0.90	3.9	TO-15	10/08/13	2
o-Xylene	95-47-6	106	0.400	1.70	< 0.40	< 1.7	TO-15	10/08/13	2
1,4-Bromofluorobenzene	460-00-4				98.5	% Rec.	TO-15	10/08/13	2

RDL1 = ppbv , RDL2 = ug/m3
Note:
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REPORT OF ANALYSIS

Chris Fay
Withers & Ravenel Eng. - Standard
111 MacKenan Drive
Cary, NC 27511

October 11, 2013

Date Received : October 05, 2013
Description : Hanesbrands

ESC Sample # : L661676-03

Sample ID : SVP-3 12 FT

Site ID :

Collected By : Chris Fay
Collection Date : 10/03/13 14:30

Project # : 02090145

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	2.50	5.90	32.	76.	TO-15	10/09/13	2
Allyl chloride	107-05-1	76.53	0.400	1.30	< 0.40	< 1.3	TO-15	10/09/13	2
Benzene	71-43-2	78.1	0.400	1.30	2.8	8.9	TO-15	10/09/13	2
Benzyl Chloride	100-44-7	127	0.400	2.10	< 0.40	< 2.1	TO-15	10/09/13	2
Bromodichloromethane	75-27-4	164	0.400	2.70	< 0.40	< 2.7	TO-15	10/09/13	2
Bromoform	75-25-2	253	1.20	12.0	< 1.2	< 12.	TO-15	10/09/13	2
Bromomethane	74-83-9	94.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
1,3-Butadiene	106-99-0	54.1	4.00	8.90	< 4.0	< 8.9	TO-15	10/09/13	2
Carbon disulfide	75-15-0	76.1	0.400	1.20	0.60	1.9	TO-15	10/09/13	2
Carbon tetrachloride	56-23-5	154	0.400	2.50	< 0.40	< 2.5	TO-15	10/09/13	2
Chlorobenzene	108-90-7	113	0.400	1.80	< 0.40	< 1.8	TO-15	10/09/13	2
Chloroethane	75-00-3	64.5	0.400	1.10	< 0.40	< 1.1	TO-15	10/09/13	2
Chloroform	67-66-3	119	0.400	1.90	6.9	34.	TO-15	10/09/13	2
Chloromethane	74-87-3	50.5	0.400	0.830	1.2	2.5	TO-15	10/09/13	2
2-Chlorotoluene	95-49-8	126	0.400	2.10	< 0.40	< 2.1	TO-15	10/09/13	2
Cyclohexane	110-82-7	84.2	0.400	1.40	< 0.40	< 1.4	TO-15	10/09/13	2
Dibromochloromethane	124-48-1	208	0.400	3.40	< 0.40	< 3.4	TO-15	10/09/13	2
1,2-Dibromoethane	106-93-4	188	0.400	3.10	< 0.40	< 3.1	TO-15	10/09/13	2
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/09/13	2
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/09/13	2
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/09/13	2
1,2-Dichloroethane	107-06-2	99	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
trans-1,2-Dichloroethene	156-60-5	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
1,2-Dichloropropane	78-87-5	113	0.400	1.80	< 0.40	< 1.8	TO-15	10/09/13	2
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.80	< 0.40	< 1.8	TO-15	10/09/13	2
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.80	< 0.40	< 1.8	TO-15	10/09/13	2
1,4-Dioxane	123-91-1	88.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/09/13	2
Ethanol	64-17-5	46.1	1.26	2.40	7.2	14.	TO-15	10/09/13	2
Ethylbenzene	100-41-4	106	0.400	1.70	32.	140	TO-15	10/09/13	2
4-Ethyltoluene	622-96-8	120	0.400	2.00	1.8	8.8	TO-15	10/09/13	2
Trichlorofluoromethane	75-69-4	137.4	4.00	22.0	170	960	TO-15	10/09/13	20
Dichlorodifluoromethane	75-71-8	120.92	0.400	2.00	0.73	3.6	TO-15	10/09/13	2
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.400	3.10	< 0.40	< 3.1	TO-15	10/09/13	2
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	< 0.40	< 2.8	TO-15	10/09/13	2
Heptane	142-82-5	100	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.0	< 1.3	< 13.	TO-15	10/09/13	2
n-Hexane	110-54-3	86.2	0.400	1.40	0.50	1.8	TO-15	10/09/13	2
Isopropylbenzene	98-82-8	120.2	0.400	2.00	1.1	5.4	TO-15	10/09/13	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	0.75	2.6	TO-15	10/09/13	2
Methyl Butyl Ketone	591-78-6	100	2.50	10.0	< 2.5	< 10.	TO-15	10/09/13	2

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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REPORT OF ANALYSIS

Chris Fay
Withers & Ravenel Eng. - Standard
111 MacKenan Drive
Cary, NC 27511

October 11, 2013

ESC Sample # : L661676-03

Site ID :

Project # : 02090145

Date Received : October 05, 2013
Description : Hanesbrands

Sample ID : SVP-3 12 FT

Collected By : Chris Fay
Collection Date : 10/03/13 14:30

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
2-Butanone (MEK)	78-93-3	72.1	2.50	7.40	3.1	9.1	TO-15	10/09/13	2
4-Methyl-2-pentanone (MIBK)	108-10-1	100.1	2.50	10.0	< 2.5	< 10.	TO-15	10/09/13	2
Methyl methacrylate	80-62-6	100.12	0.400	1.60	1.6	6.6	TO-15	10/09/13	2
MTBE	1634-04-4	88.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/09/13	2
Naphthalene	91-20-3	128	1.26	6.60	< 1.3	< 6.6	TO-15	10/09/13	2
2-Propanol	67-63-0	60.1	25.0	61.0	44.	110	TO-15	10/09/13	20
Propene	115-07-1	42.1	8.00	14.0	17.	29.	TO-15	10/09/13	20
Styrene	100-42-5	104	0.400	1.70	< 0.40	< 1.7	TO-15	10/09/13	2
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.70	< 0.40	< 2.7	TO-15	10/09/13	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	1.1	7.5	TO-15	10/09/13	2
Tetrahydrofuran	109-99-9	72.1	0.400	1.20	< 0.40	< 1.2	TO-15	10/09/13	2
Toluene	108-88-3	92.1	0.400	1.50	3.6	14.	TO-15	10/09/13	2
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.30	< 1.3	< 9.3	TO-15	10/09/13	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	0.74	4.0	TO-15	10/09/13	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	10/09/13	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	10/09/13	2
1,2,4-Trimethylbenzene	95-63-6	120	0.400	2.00	1.9	9.3	TO-15	10/09/13	2
1,3,5-Trimethylbenzene	108-67-8	120	0.400	2.00	0.71	3.5	TO-15	10/09/13	2
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.90	< 0.40	< 1.9	TO-15	10/09/13	2
Vinyl chloride	75-01-4	62.5	0.400	1.00	< 0.40	< 1.0	TO-15	10/09/13	2
Vinyl Bromide	593-60-2	106.95	0.400	1.70	< 0.40	< 1.7	TO-15	10/09/13	2
Vinyl acetate	108-05-4	86.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/09/13	2
m&p-Xylene	1330-20-7	106	0.800	3.50	8.5	37.	TO-15	10/09/13	2
o-Xylene	95-47-6	106	0.400	1.70	3.1	13.	TO-15	10/09/13	2
1,4-Bromofluorobenzene	460-00-4				99.7	% Rec.	TO-15	10/09/13	2

RDL1 = ppbv , RDL2 = ug/m3
Note:
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REPORT OF ANALYSIS

Chris Fay
Withers & Ravenel Eng. - Standard
111 MacKenan Drive
Cary, NC 27511

October 11, 2013

ESC Sample # : L661676-04

Date Received : October 05, 2013
Description : Hanesbrands

Site ID :

Sample ID : SVP-4 6 FT

Project # : 02090145

Collected By : Chris Fay
Collection Date : 10/03/13 14:10

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	25.0	59.0	30.	71.	TO-15	10/10/13	20
Allyl chloride	107-05-1	76.53	0.400	1.30	< 0.40	< 1.3	TO-15	10/09/13	2
Benzene	71-43-2	78.1	0.400	1.30	7.3	23.	TO-15	10/09/13	2
Benzyl Chloride	100-44-7	127	0.400	2.10	< 0.40	< 2.1	TO-15	10/09/13	2
Bromodichloromethane	75-27-4	164	0.400	2.70	< 0.40	< 2.7	TO-15	10/09/13	2
Bromoform	75-25-2	253	1.20	12.0	< 1.2	< 12.	TO-15	10/09/13	2
Bromomethane	74-83-9	94.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
1,3-Butadiene	106-99-0	54.1	4.00	8.90	38.	84.	TO-15	10/09/13	2
Carbon disulfide	75-15-0	76.1	0.400	1.20	5.2	16.	TO-15	10/09/13	2
Carbon tetrachloride	56-23-5	154	0.400	2.50	< 0.40	< 2.5	TO-15	10/09/13	2
Chlorobenzene	108-90-7	113	0.400	1.80	< 0.40	< 1.8	TO-15	10/09/13	2
Chloroethane	75-00-3	64.5	0.400	1.10	0.90	2.4	TO-15	10/09/13	2
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	10/09/13	2
Chloromethane	74-87-3	50.5	0.400	0.830	9.8	20.	TO-15	10/09/13	2
2-Chlorotoluene	95-49-8	126	0.400	2.10	< 0.40	< 2.1	TO-15	10/09/13	2
Cyclohexane	110-82-7	84.2	0.400	1.40	1.4	4.8	TO-15	10/09/13	2
Dibromochloromethane	124-48-1	208	0.400	3.40	< 0.40	< 3.4	TO-15	10/09/13	2
1,2-Dibromoethane	106-93-4	188	0.400	3.10	< 0.40	< 3.1	TO-15	10/09/13	2
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/09/13	2
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/09/13	2
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/09/13	2
1,2-Dichloroethane	107-06-2	99	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
trans-1,2-Dichloroethene	156-60-5	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
1,2-Dichloropropane	78-87-5	113	0.400	1.80	< 0.40	< 1.8	TO-15	10/09/13	2
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.80	< 0.40	< 1.8	TO-15	10/09/13	2
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.80	< 0.40	< 1.8	TO-15	10/09/13	2
1,4-Dioxane	123-91-1	88.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/09/13	2
Ethanol	64-17-5	46.1	1.26	2.40	33.	62.	TO-15	10/09/13	2
Ethylbenzene	100-41-4	106	0.400	1.70	2.6	11.	TO-15	10/09/13	2
4-Ethyltoluene	622-96-8	120	0.400	2.00	< 0.40	< 2.0	TO-15	10/09/13	2
Trichlorofluoromethane	75-69-4	137.4	0.400	2.20	5.5	31.	TO-15	10/09/13	2
Dichlorodifluoromethane	75-71-8	120.92	0.400	2.00	0.65	3.2	TO-15	10/09/13	2
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.400	3.10	< 0.40	< 3.1	TO-15	10/09/13	2
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	< 0.40	< 2.8	TO-15	10/09/13	2
Heptane	142-82-5	100	0.400	1.60	2.7	11.	TO-15	10/09/13	2
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.0	< 1.3	< 13.	TO-15	10/09/13	2
n-Hexane	110-54-3	86.2	0.400	1.40	22.	78.	TO-15	10/09/13	2
Isopropylbenzene	98-82-8	120.2	0.400	2.00	< 0.40	< 2.0	TO-15	10/09/13	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	0.60	2.1	TO-15	10/09/13	2
Methyl Butyl Ketone	591-78-6	100	2.50	10.0	< 2.5	< 10.	TO-15	10/09/13	2

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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REPORT OF ANALYSIS

Chris Fay
Withers & Ravenel Eng. - Standard
111 MacKenan Drive
Cary, NC 27511

October 11, 2013

ESC Sample # : L661676-04

Site ID :

Project # : 02090145

Date Received : October 05, 2013
Description : Hanesbrands

Sample ID : SVP-4 6 FT

Collected By : Chris Fay
Collection Date : 10/03/13 14:10

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
2-Butanone (MEK)	78-93-3	72.1	2.50	7.40	6.6	19.	TO-15	10/09/13	2
4-Methyl-2-pentanone (MIBK)	108-10-1	100.1	2.50	10.0	< 2.5	< 10.	TO-15	10/09/13	2
Methyl methacrylate	80-62-6	100.12	0.400	1.60	3.8	16.	TO-15	10/09/13	2
MTBE	1634-04-4	88.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/09/13	2
Naphthalene	91-20-3	128	1.26	6.60	< 1.3	< 6.6	TO-15	10/09/13	2
2-Propanol	67-63-0	60.1	25.0	61.0	110	270	TO-15	10/10/13	20
Propene	115-07-1	42.1	8.00	14.0	280	480	TO-15	10/10/13	20
Styrene	100-42-5	104	0.400	1.70	0.77	3.3	TO-15	10/09/13	2
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.70	< 0.40	< 2.7	TO-15	10/09/13	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	1.4	9.5	TO-15	10/09/13	2
Tetrahydrofuran	109-99-9	72.1	0.400	1.20	< 0.40	< 1.2	TO-15	10/09/13	2
Toluene	108-88-3	92.1	0.400	1.50	4.2	16.	TO-15	10/09/13	2
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.30	< 1.3	< 9.3	TO-15	10/09/13	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	10/09/13	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	10/09/13	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	10/09/13	2
1,2,4-Trimethylbenzene	95-63-6	120	0.400	2.00	< 0.40	< 2.0	TO-15	10/09/13	2
1,3,5-Trimethylbenzene	108-67-8	120	0.400	2.00	< 0.40	< 2.0	TO-15	10/09/13	2
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.90	< 0.40	< 1.9	TO-15	10/09/13	2
Vinyl chloride	75-01-4	62.5	0.400	1.00	2.8	7.2	TO-15	10/09/13	2
Vinyl Bromide	593-60-2	106.95	0.400	1.70	< 0.40	< 1.7	TO-15	10/09/13	2
Vinyl acetate	108-05-4	86.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/09/13	2
m&p-Xylene	1330-20-7	106	0.800	3.50	1.7	7.4	TO-15	10/09/13	2
o-Xylene	95-47-6	106	0.400	1.70	0.63	2.7	TO-15	10/09/13	2
1,4-Bromofluorobenzene	460-00-4				99.7	% Rec.	TO-15	10/09/13	2

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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REPORT OF ANALYSIS

Chris Fay
Withers & Ravenel Eng. - Standard
111 MacKenan Drive
Cary, NC 27511

October 11, 2013

Date Received : October 05, 2013
Description : Hanesbrands

Sample ID : SVP-5 6 FT

Collected By : Chris Fay
Collection Date : 10/03/13 14:00

ESC Sample # : L661676-05

Site ID :

Project # : 02090145

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	31.2	74.0	86.	200	TO-15	10/10/13	25
Allyl chloride	107-05-1	76.53	0.400	1.30	< 0.40	< 1.3	TO-15	10/09/13	2
Benzene	71-43-2	78.1	0.400	1.30	8.9	28.	TO-15	10/09/13	2
Benzyl Chloride	100-44-7	127	0.400	2.10	< 0.40	< 2.1	TO-15	10/09/13	2
Bromodichloromethane	75-27-4	164	0.400	2.70	< 0.40	< 2.7	TO-15	10/09/13	2
Bromoform	75-25-2	253	1.20	12.0	< 1.2	< 12.	TO-15	10/09/13	2
Bromomethane	74-83-9	94.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
1,3-Butadiene	106-99-0	54.1	4.00	8.90	< 4.0	< 8.9	TO-15	10/09/13	2
Carbon disulfide	75-15-0	76.1	0.400	1.20	9.4	29.	TO-15	10/09/13	2
Carbon tetrachloride	56-23-5	154	0.400	2.50	< 0.40	< 2.5	TO-15	10/09/13	2
Chlorobenzene	108-90-7	113	0.400	1.80	< 0.40	< 1.8	TO-15	10/09/13	2
Chloroethane	75-00-3	64.5	0.400	1.10	< 0.40	< 1.1	TO-15	10/09/13	2
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	10/09/13	2
Chloromethane	74-87-3	50.5	0.400	0.830	< 0.40	< 0.83	TO-15	10/09/13	2
2-Chlorotoluene	95-49-8	126	0.400	2.10	< 0.40	< 2.1	TO-15	10/09/13	2
Cyclohexane	110-82-7	84.2	0.400	1.40	7.2	25.	TO-15	10/09/13	2
Dibromochloromethane	124-48-1	208	0.400	3.40	< 0.40	< 3.4	TO-15	10/09/13	2
1,2-Dibromoethane	106-93-4	188	0.400	3.10	< 0.40	< 3.1	TO-15	10/09/13	2
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/09/13	2
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/09/13	2
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	< 0.40	< 2.4	TO-15	10/09/13	2
1,2-Dichloroethane	107-06-2	99	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	10/09/13	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	33.	130	TO-15	10/09/13	2
trans-1,2-Dichloroethene	156-60-5	96.9	0.400	1.60	14.	55.	TO-15	10/09/13	2
1,2-Dichloropropane	78-87-5	113	0.400	1.80	< 0.40	< 1.8	TO-15	10/09/13	2
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.80	< 0.40	< 1.8	TO-15	10/09/13	2
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.80	< 0.40	< 1.8	TO-15	10/09/13	2
1,4-Dioxane	123-91-1	88.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/09/13	2
Ethanol	64-17-5	46.1	1.26	2.40	18.	34.	TO-15	10/09/13	2
Ethylbenzene	100-41-4	106	0.400	1.70	1.3	5.6	TO-15	10/09/13	2
4-Ethyltoluene	622-96-8	120	0.400	2.00	< 0.40	< 2.0	TO-15	10/09/13	2
Trichlorofluoromethane	75-69-4	137.4	0.400	2.20	< 0.40	< 2.2	TO-15	10/09/13	2
Dichlorodifluoromethane	75-71-8	120.92	0.400	2.00	0.50	2.5	TO-15	10/09/13	2
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.400	3.10	< 0.40	< 3.1	TO-15	10/09/13	2
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	< 0.40	< 2.8	TO-15	10/09/13	2
Heptane	142-82-5	100	0.400	1.60	6.3	26.	TO-15	10/09/13	2
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.0	< 1.3	< 13.	TO-15	10/09/13	2
n-Hexane	110-54-3	86.2	0.400	1.40	16.	56.	TO-15	10/09/13	2
Isopropylbenzene	98-82-8	120.2	0.400	2.00	< 0.40	< 2.0	TO-15	10/09/13	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	1.3	4.5	TO-15	10/09/13	2
Methyl Butyl Ketone	591-78-6	100	2.50	10.0	< 2.5	< 10.	TO-15	10/09/13	2

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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REPORT OF ANALYSIS

Chris Fay
Withers & Ravenel Eng. - Standard
111 MacKenan Drive
Cary, NC 27511

October 11, 2013

ESC Sample # : L661676-05

Date Received : October 05, 2013
Description : Hanesbrands

Site ID :

Sample ID : SVP-5 6 FT

Project # : 02090145

Collected By : Chris Fay
Collection Date : 10/03/13 14:00

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
2-Butanone (MEK)	78-93-3	72.1	2.50	7.40	11.	32.	TO-15	10/09/13	2
4-Methyl-2-pentanone (MIBK)	108-10-1	100.1	2.50	10.0	< 2.5	< 10.	TO-15	10/09/13	2
Methyl methacrylate	80-62-6	100.12	0.400	1.60	1.8	7.4	TO-15	10/09/13	2
MTBE	1634-04-4	88.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/09/13	2
Naphthalene	91-20-3	128	1.26	6.60	< 1.3	< 6.6	TO-15	10/09/13	2
2-Propanol	67-63-0	60.1	31.2	77.0	320	790	TO-15	10/10/13	25
Propene	115-07-1	42.1	80.0	140.	570	980	TO-15	10/10/13	200
Styrene	100-42-5	104	0.400	1.70	0.71	3.0	TO-15	10/09/13	2
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.70	< 0.40	< 2.7	TO-15	10/09/13	2
Tetrachloroethylene	127-18-4	166	5.00	34.0	100	680	TO-15	10/10/13	25
Tetrahydrofuran	109-99-9	72.1	0.400	1.20	< 0.40	< 1.2	TO-15	10/09/13	2
Toluene	108-88-3	92.1	0.400	1.50	5.8	22.	TO-15	10/09/13	2
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.30	< 1.3	< 9.3	TO-15	10/09/13	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	10/09/13	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	10/09/13	2
Trichloroethylene	79-01-6	131	0.400	2.10	34.	180	TO-15	10/09/13	2
1,2,4-Trimethylbenzene	95-63-6	120	0.400	2.00	0.44	2.2	TO-15	10/09/13	2
1,3,5-Trimethylbenzene	108-67-8	120	0.400	2.00	< 0.40	< 2.0	TO-15	10/09/13	2
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.90	13.	61.	TO-15	10/09/13	2
Vinyl chloride	75-01-4	62.5	0.400	1.00	1.5	3.8	TO-15	10/09/13	2
Vinyl Bromide	593-60-2	106.95	0.400	1.70	< 0.40	< 1.7	TO-15	10/09/13	2
Vinyl acetate	108-05-4	86.1	0.400	1.40	< 0.40	< 1.4	TO-15	10/09/13	2
m&p-Xylene	1330-20-7	106	0.800	3.50	3.3	14.	TO-15	10/09/13	2
o-Xylene	95-47-6	106	0.400	1.70	1.1	4.8	TO-15	10/09/13	2
1,4-Bromofluorobenzene	460-00-4				101	% Rec.	TO-15	10/09/13	2

RDL1 = ppbv , RDL2 = ug/m3
Note:
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Summary of Remarks For Samples Printed
10/11/13 at 12:15:07

TSR Signing Reports: 134
R5 - Desired TAT

Do not log for QC2MODCN

Sample: L661676-01 Account: WITHRAVS Received: 10/05/13 09:00 Due Date: 10/11/13 00:00 RPT Date: 10/11/13 12:14

Sample: L661676-02 Account: WITHRAVS Received: 10/05/13 09:00 Due Date: 10/11/13 00:00 RPT Date: 10/11/13 12:14

Sample: L661676-03 Account: WITHRAVS Received: 10/05/13 09:00 Due Date: 10/11/13 00:00 RPT Date: 10/11/13 12:14

Sample: L661676-04 Account: WITHRAVS Received: 10/05/13 09:00 Due Date: 10/11/13 00:00 RPT Date: 10/11/13 12:14

Sample: L661676-05 Account: WITHRAVS Received: 10/05/13 09:00 Due Date: 10/11/13 00:00 RPT Date: 10/11/13 12:14

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Chris Fay
111 MacKenan Drive

Cary, NC 27511

Quality Assurance Report
Level II

L661676

October 11, 2013

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1-Trichloroethane	< .2	ppb			WG685976	10/08/13 13:36
1,1,2,2-Tetrachloroethane	< .2	ppb			WG685976	10/08/13 13:36
1,1,2-Trichloroethane	< .2	ppb			WG685976	10/08/13 13:36
1,1,2-Trichlorotrifluoroethane	< .2	ppb			WG685976	10/08/13 13:36
1,1-Dichloroethane	< .2	ppb			WG685976	10/08/13 13:36
1,1-Dichloroethene	< .2	ppb			WG685976	10/08/13 13:36
1,2,4-Trichlorobenzene	< .63	ppb			WG685976	10/08/13 13:36
1,2,4-Trimethylbenzene	< .2	ppb			WG685976	10/08/13 13:36
1,2-Dibromoethane	< .2	ppb			WG685976	10/08/13 13:36
1,2-Dichlorobenzene	< .2	ppb			WG685976	10/08/13 13:36
1,2-Dichloroethane	< .2	ppb			WG685976	10/08/13 13:36
1,2-Dichloropropane	< .2	ppb			WG685976	10/08/13 13:36
1,2-Dichlorotetrafluoroethane	< .2	ppb			WG685976	10/08/13 13:36
1,3,5-Trimethylbenzene	< .2	ppb			WG685976	10/08/13 13:36
1,3-Butadiene	< 2	ppb			WG685976	10/08/13 13:36
1,3-Dichlorobenzene	< .2	ppb			WG685976	10/08/13 13:36
1,4-Dichlorobenzene	< .2	ppb			WG685976	10/08/13 13:36
1,4-Dioxane	< .2	ppb			WG685976	10/08/13 13:36
2,2,4-Trimethylpentane	< .2	ppb			WG685976	10/08/13 13:36
2-Butanone (MEK)	< 1.25	ppb			WG685976	10/08/13 13:36
2-Chlorotoluene	< .2	ppb			WG685976	10/08/13 13:36
4-Ethyltoluene	< .2	ppb			WG685976	10/08/13 13:36
4-Methyl-2-pentanone (MIBK)	< 1.25	ppb			WG685976	10/08/13 13:36
Acetone	< 1.25	ppb			WG685976	10/08/13 13:36
Allyl chloride	< .2	ppb			WG685976	10/08/13 13:36
Benzene	< .2	ppb			WG685976	10/08/13 13:36
Benzyl Chloride	< .2	ppb			WG685976	10/08/13 13:36
Bromodichloromethane	< .2	ppb			WG685976	10/08/13 13:36
Bromoform	< .6	ppb			WG685976	10/08/13 13:36
Bromomethane	< .2	ppb			WG685976	10/08/13 13:36
Carbon disulfide	< .2	ppb			WG685976	10/08/13 13:36
Carbon tetrachloride	< .2	ppb			WG685976	10/08/13 13:36
Chlorobenzene	< .2	ppb			WG685976	10/08/13 13:36
Dibromochloromethane	< .2	ppb			WG685976	10/08/13 13:36
Chloroethane	< .2	ppb			WG685976	10/08/13 13:36
Chloroform	< .2	ppb			WG685976	10/08/13 13:36
Chloromethane	< .2	ppb			WG685976	10/08/13 13:36
cis-1,2-Dichloroethene	< .2	ppb			WG685976	10/08/13 13:36
cis-1,3-Dichloropropene	< .2	ppb			WG685976	10/08/13 13:36
Cyclohexane	< .2	ppb			WG685976	10/08/13 13:36
Dichlorodifluoromethane	< .2	ppb			WG685976	10/08/13 13:36
Ethanol	< .63	ppb			WG685976	10/08/13 13:36
Ethylbenzene	< .2	ppb			WG685976	10/08/13 13:36
Heptane	< .2	ppb			WG685976	10/08/13 13:36
Hexachloro-1,3-butadiene	< .63	ppb			WG685976	10/08/13 13:36
Isopropylbenzene	< .2	ppb			WG685976	10/08/13 13:36
m&p-Xylene	< .4	ppb			WG685976	10/08/13 13:36
Methyl Butyl Ketone	< 1.25	ppb			WG685976	10/08/13 13:36
Methyl methacrylate	< .2	ppb			WG685976	10/08/13 13:36
MTBE	< .2	ppb			WG685976	10/08/13 13:36
Methylene Chloride	< .2	ppb			WG685976	10/08/13 13:36
n-Hexane	< .2	ppb			WG685976	10/08/13 13:36
Naphthalene	< .63	ppb			WG685976	10/08/13 13:36
o-Xylene	< .2	ppb			WG685976	10/08/13 13:36
Styrene	< .2	ppb			WG685976	10/08/13 13:36
Tetrachloroethylene	< .2	ppb			WG685976	10/08/13 13:36
Tetrahydrofuran	< .2	ppb			WG685976	10/08/13 13:36
Toluene	< .2	ppb			WG685976	10/08/13 13:36
trans-1,2-Dichloroethene	< .2	ppb			WG685976	10/08/13 13:36

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L661676

October 11, 2013

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
trans-1,3-Dichloropropene	< .2	ppb			WG685976	10/08/13 13:36
Trichloroethylene	< .2	ppb			WG685976	10/08/13 13:36
Trichlorofluoromethane	< .2	ppb			WG685976	10/08/13 13:36
Vinyl acetate	< .2	ppb			WG685976	10/08/13 13:36
Vinyl Bromide	< .2	ppb			WG685976	10/08/13 13:36
Vinyl chloride	< .2	ppb			WG685976	10/08/13 13:36
1,4-Bromofluorobenzene		% Rec.	96.90	60-140	WG685976	10/08/13 13:36
1,3-Butadiene	< 2	ppb			WG686212	10/09/13 16:02
2-Propanol	< 1.25	ppb			WG686212	10/09/13 16:02
Acetone	< 1.25	ppb			WG686212	10/09/13 16:02
Propene	< .4	ppb			WG686212	10/09/13 16:02
Tetrachloroethylene	< .2	ppb			WG686212	10/09/13 16:02
Trichlorofluoromethane	< .2	ppb			WG686212	10/09/13 16:02
1,4-Bromofluorobenzene		% Rec.	97.00	60-140	WG686212	10/09/13 16:02
Propene	< .4	ppb			WG686410	10/10/13 13:35
1,4-Bromofluorobenzene		% Rec.	95.30	60-140	WG686410	10/10/13 13:35

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1-Trichloroethane	ppb	3.75	3.82	102.	70-130	WG685976
1,1,2,2-Tetrachloroethane	ppb	3.75	4.00	107.	70-130	WG685976
1,1,2-Trichloroethane	ppb	3.75	4.02	107.	70-130	WG685976
1,1,2-Trichlorotrifluoroethane	ppb	3.75	3.80	101.	70-130	WG685976
1,1-Dichloroethane	ppb	3.75	3.87	103.	70-130	WG685976
1,1-Dichloroethene	ppb	3.75	3.71	99.0	70-130	WG685976
1,2,4-Trichlorobenzene	ppb	3.75	4.56	122.	54-153	WG685976
1,2,4-Trimethylbenzene	ppb	3.75	4.19	112.	70-130	WG685976
1,2-Dibromoethane	ppb	3.75	4.09	109.	70-130	WG685976
1,2-Dichlorobenzene	ppb	3.75	4.09	109.	70-130	WG685976
1,2-Dichloroethane	ppb	3.75	4.02	107.	70-130	WG685976
1,2-Dichloropropane	ppb	3.75	4.08	109.	70-130	WG685976
1,2-Dichlorotetrafluoroethane	ppb	3.75	3.83	102.	70-130	WG685976
1,3,5-Trimethylbenzene	ppb	3.75	4.11	110.	70-130	WG685976
1,3-Butadiene	ppb	3.75	3.85	103.	70-130	WG685976
1,3-Dichlorobenzene	ppb	3.75	4.03	108.	70-130	WG685976
1,4-Dichlorobenzene	ppb	3.75	4.09	109.	70-130	WG685976
1,4-Dioxane	ppb	3.75	4.02	107.	70-130	WG685976
2,2,4-Trimethylpentane	ppb	3.75	4.12	110.	70-130	WG685976
2-Butanone (MEK)	ppb	3.75	4.02	107.	70-130	WG685976
2-Chlorotoluene	ppb	3.75	4.03	108.	70-130	WG685976
4-Ethyltoluene	ppb	3.75	4.18	112.	70-130	WG685976
4-Methyl-2-pentanone (MIBK)	ppb	3.75	3.93	105.	36-158	WG685976
Acetone	ppb	3.75	3.85	103.	70-130	WG685976
Allyl chloride	ppb	3.75	3.83	102.	70-130	WG685976
Benzene	ppb	3.75	3.95	105.	70-130	WG685976
Benzyl Chloride	ppb	3.75	4.13	110.	70-130	WG685976
Bromodichloromethane	ppb	3.75	3.99	106.	70-130	WG685976
Bromoform	ppb	3.75	4.10	109.	70-130	WG685976
Bromomethane	ppb	3.75	3.70	98.6	70-130	WG685976
Carbon disulfide	ppb	3.75	3.77	100.	70-130	WG685976
Carbon tetrachloride	ppb	3.75	3.76	100.	70-130	WG685976
Chlorobenzene	ppb	3.75	4.05	108.	70-130	WG685976
Dibromochloromethane	ppb	3.75	4.09	109.	70-130	WG685976
Chloroethane	ppb	3.75	3.85	103.	70-130	WG685976

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Quality Assurance Report
Level II

L661676

October 11, 2013

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Chloroform	ppb	3.75	3.89	104.	70-130	WG685976
Chloromethane	ppb	3.75	3.62	96.6	70-130	WG685976
cis-1,2-Dichloroethene	ppb	3.75	3.91	104.	70-130	WG685976
cis-1,3-Dichloropropene	ppb	3.75	4.07	109.	70-130	WG685976
Cyclohexane	ppb	3.75	3.80	101.	70-130	WG685976
Dichlorodifluoromethane	ppb	3.75	3.68	98.1	70-130	WG685976
Ethanol	ppb	3.75	3.43	91.5	70-130	WG685976
Ethylbenzene	ppb	3.75	4.02	107.	70-130	WG685976
Heptane	ppb	3.75	4.02	107.	70-130	WG685976
Hexachloro-1,3-butadiene	ppb	3.75	4.40	117.	50-149	WG685976
Isopropylbenzene	ppb	3.75	4.10	109.	70-130	WG685976
m&p-Xylene	ppb	7.5	7.99	106.	70-130	WG685976
Methyl Butyl Ketone	ppb	3.75	3.95	105.	38-153	WG685976
Methyl methacrylate	ppb	3.75	3.70	98.7	70-130	WG685976
MTBE	ppb	3.75	3.99	106.	70-130	WG685976
Methylene Chloride	ppb	3.75	3.40	90.6	70-130	WG685976
n-Hexane	ppb	3.75	3.92	105.	70-130	WG685976
Naphthalene	ppb	3.75	4.39	117.	54-154	WG685976
o-Xylene	ppb	3.75	4.11	110.	70-130	WG685976
Styrene	ppb	3.75	4.17	111.	70-130	WG685976
Tetrachloroethylene	ppb	3.75	3.89	104.	70-130	WG685976
Tetrahydrofuran	ppb	3.75	4.03	108.	70-130	WG685976
Toluene	ppb	3.75	4.06	108.	70-130	WG685976
trans-1,2-Dichloroethene	ppb	3.75	3.84	102.	70-130	WG685976
trans-1,3-Dichloropropene	ppb	3.75	4.14	110.	70-130	WG685976
Trichloroethylene	ppb	3.75	3.96	105.	70-130	WG685976
Trichlorofluoromethane	ppb	3.75	3.77	100.	70-130	WG685976
Vinyl acetate	ppb	3.75	4.13	110.	70-130	WG685976
Vinyl Bromide	ppb	3.75	3.77	101.	70-130	WG685976
Vinyl chloride	ppb	3.75	3.76	100.	70-130	WG685976
1,4-Bromofluorobenzene				100.0	60-140	WG685976
1,3-Butadiene	ppb	3.75	3.64	97.0	70-130	WG686212
2-Propanol	ppb	3.75	3.81	102.	70-130	WG686212
Acetone	ppb	3.75	3.60	96.0	70-130	WG686212
Propene	ppb	3.75	3.95	105.	70-130	WG686212
Tetrachloroethylene	ppb	3.75	3.63	96.8	70-130	WG686212
Trichlorofluoromethane	ppb	3.75	3.45	91.9	70-130	WG686212
1,4-Bromofluorobenzene				101.0	60-140	WG686212
Propene	ppb	3.75	4.10	109.	70-130	WG686410
1,4-Bromofluorobenzene				99.30	60-140	WG686410

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1-Trichloroethane	ppb	3.88	3.82	104.	70-130	1.55	25	WG685976
1,1,2,2-Tetrachloroethane	ppb	4.14	4.00	110.	70-130	3.34	25	WG685976
1,1,2-Trichloroethane	ppb	4.06	4.02	108.	70-130	1.02	25	WG685976
1,1,2-Trichlorotrifluoroethane	ppb	3.85	3.80	103.	70-130	1.36	25	WG685976
1,1-Dichloroethane	ppb	3.87	3.87	103.	70-130	0.0700	25	WG685976
1,1-Dichloroethene	ppb	3.82	3.71	102.	70-130	2.78	25	WG685976
1,2,4-Trichlorobenzene	ppb	4.57	4.56	122.	54-153	0.370	25	WG685976
1,2,4-Trimethylbenzene	ppb	4.23	4.19	113.	70-130	1.10	25	WG685976
1,2-Dibromoethane	ppb	4.07	4.09	108.	70-130	0.360	25	WG685976
1,2-Dichlorobenzene	ppb	4.18	4.09	111.	70-130	2.09	25	WG685976
1,2-Dichloroethane	ppb	4.01	4.02	107.	70-130	0.330	25	WG685976

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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111 MacKenan Drive

Cary, NC 27511

Quality Assurance Report
Level II

L661676

October 11, 2013

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,2-Dichloropropane	ppb	4.09	4.08	109.	70-130	0.160	25	WG685976
1,2-Dichlorotetrafluoroethane	ppb	3.92	3.83	104.	70-130	2.36	25	WG685976
1,3,5-Trimethylbenzene	ppb	4.18	4.11	111.	70-130	1.60	25	WG685976
1,3-Butadiene	ppb	3.98	3.85	106.	70-130	3.33	25	WG685976
1,3-Dichlorobenzene	ppb	4.18	4.03	111.	70-130	3.45	25	WG685976
1,4-Dichlorobenzene	ppb	4.22	4.09	112.	70-130	3.10	25	WG685976
1,4-Dioxane	ppb	3.98	4.02	106.	70-130	1.18	25	WG685976
2,2,4-Trimethylpentane	ppb	4.17	4.12	111.	70-130	1.12	25	WG685976
2-Butanone (MEK)	ppb	3.99	4.02	106.	70-130	0.780	25	WG685976
2-Chlorotoluene	ppb	4.16	4.03	111.	70-130	3.03	25	WG685976
4-Ethyltoluene	ppb	4.27	4.18	114.	70-130	2.03	25	WG685976
4-Methyl-2-pentanone (MIBK)	ppb	3.85	3.93	103.	36-158	2.14	25	WG685976
Acetone	ppb	3.76	3.85	100.	70-130	2.50	25	WG685976
Allyl chloride	ppb	3.89	3.83	104.	70-130	1.45	25	WG685976
Benzene	ppb	3.93	3.95	105.	70-130	0.330	25	WG685976
Benzyl Chloride	ppb	4.22	4.13	112.	70-130	2.05	25	WG685976
Bromodichloromethane	ppb	4.02	3.99	107.	70-130	0.730	25	WG685976
Bromoform	ppb	4.24	4.10	113.	70-130	3.41	25	WG685976
Bromomethane	ppb	3.83	3.70	102.	70-130	3.63	25	WG685976
Carbon disulfide	ppb	3.85	3.77	103.	70-130	2.09	25	WG685976
Carbon tetrachloride	ppb	3.78	3.76	101.	70-130	0.560	25	WG685976
Chlorobenzene	ppb	4.05	4.05	108.	70-130	0.160	25	WG685976
Dibromochloromethane	ppb	4.05	4.09	108.	70-130	0.850	25	WG685976
Chloroethane	ppb	3.96	3.85	106.	70-130	2.79	25	WG685976
Chloroform	ppb	3.89	3.89	104.	70-130	0.0900	25	WG685976
Chloromethane	ppb	3.85	3.62	102.	70-130	5.95	25	WG685976
cis-1,2-Dichloroethene	ppb	3.89	3.91	104.	70-130	0.690	25	WG685976
cis-1,3-Dichloropropene	ppb	4.08	4.07	109.	70-130	0.230	25	WG685976
Cyclohexane	ppb	3.93	3.80	105.	70-130	3.53	25	WG685976
Dichlorodifluoromethane	ppb	3.74	3.68	100.	70-130	1.59	25	WG685976
Ethanol	ppb	3.50	3.43	93.0	70-130	1.88	25	WG685976
Ethylbenzene	ppb	4.16	4.02	111.	70-130	3.32	25	WG685976
Heptane	ppb	4.07	4.02	108.	70-130	1.21	25	WG685976
Hexachloro-1,3-butadiene	ppb	4.49	4.40	120.	50-149	2.04	25	WG685976
Isopropylbenzene	ppb	4.25	4.10	113.	70-130	3.55	25	WG685976
m&p-Xylene	ppb	8.23	7.99	110.	70-130	3.04	25	WG685976
Methyl Butyl Ketone	ppb	3.82	3.95	102.	38-153	3.48	25	WG685976
Methyl methacrylate	ppb	3.71	3.70	99.0	70-130	0.180	25	WG685976
MTBE	ppb	3.93	3.99	105.	70-130	1.53	25	WG685976
Methylene Chloride	ppb	3.48	3.40	93.0	70-130	2.54	25	WG685976
n-Hexane	ppb	4.02	3.92	107.	70-130	2.36	25	WG685976
Naphthalene	ppb	4.43	4.39	118.	54-154	0.920	26	WG685976
o-Xylene	ppb	4.25	4.11	113.	70-130	3.24	25	WG685976
Styrene	ppb	4.31	4.17	115.	70-130	3.37	25	WG685976
Tetrachloroethylene	ppb	3.91	3.89	104.	70-130	0.500	25	WG685976
Tetrahydrofuran	ppb	3.97	4.03	106.	70-130	1.52	25	WG685976
Toluene	ppb	4.10	4.06	109.	70-130	1.06	25	WG685976
trans-1,2-Dichloroethene	ppb	3.85	3.84	103.	70-130	0.460	25	WG685976
trans-1,3-Dichloropropene	ppb	4.12	4.14	110.	70-130	0.500	25	WG685976
Trichloroethylene	ppb	4.01	3.96	107.	70-130	1.30	25	WG685976
Trichlorofluoromethane	ppb	3.80	3.77	101.	70-130	0.970	25	WG685976
Vinyl acetate	ppb	4.19	4.13	112.	70-130	1.42	25	WG685976
Vinyl Bromide	ppb	3.86	3.77	103.	70-130	2.31	25	WG685976
Vinyl chloride	ppb	3.91	3.76	104.	70-130	4.08	25	WG685976
1,4-Bromofluorobenzene				101.0	60-140			WG685976
1,3-Butadiene	ppb	3.93	3.64	105.	70-130	7.67	25	WG686212
2-Propanol	ppb	4.03	3.81	107.	70-130	5.66	25	WG686212

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Quality Assurance Report
Level II

L661676

October 11, 2013

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Acetone	ppb	3.84	3.60	102.	70-130	6.46	25	WG686212
Propene	ppb	4.15	3.95	110.	70-130	4.79	25	WG686212
Tetrachloroethylene	ppb	3.93	3.63	105.	70-130	7.90	25	WG686212
Trichlorofluoromethane	ppb	3.69	3.45	98.0	70-130	6.87	25	WG686212
1,4-Bromofluorobenzene				99.20	60-140			WG686212
Propene	ppb	3.90	4.10	104.	70-130	5.04	25	WG686410
1,4-Bromofluorobenzene				98.30	60-140			WG686410

Batch number /Run number / Sample number cross reference

WG685976: R2838231: L661676-01 02 03 04 05
WG686212: R2838579: L661676-01 02 03 04 05
WG686410: R2838990: L661676-01 02 05

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L661676

October 11, 2013

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Withers & Ravenel Eng. - Standard

111 MacKenan Drive
Cary, NC 27511

Billing Information:
Accounts Payable
111 MacKenan Drive
Cary, NC 27511

Report to: Chris Fay
Email To: cfay@withersravenel.com

Project Description: Hanesbrands
City/State Collected: Winston Salem NC

Phone: 919-469-3340
Fax: 919-467-6008
Client Project # 02090.145
Lab Project # WITHRAVS-FAY

Collected by (print): Chris Fay
Site/Facility ID #
P.O. #

Collected by (signature): CF
Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L061476
L061

Acctnum: WITHRAVS
Template: T89445 9/26/13 BG
Prelogin: P444319
TSR: 134 - Mark W. Beasley
PB:
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 Summa	Rem./Contaminant	Sample # (lab only)
SVP-1	Grab	Air	6'	10/3/13	1325	1	X		01
SVP-2		Air	6'		1335	1	X		02
SVP-3		Air	12'		1430	1	X		03
SVP-4		Air	6'		1410	1	X		04
SVP-5		Air	6'		1400	1	X		05
		Air				1	X		

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: 5781 0502 1015

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
	10/4/13	0800			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb. °C Bottles Received: 5 + 1 empty	COC Seal Intact: ___Y ___N ✓ NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10.5.13 Time: 0900	pH Checked: NCF:

SCALE 1" = 150'

75 150

150 0

REFERENCE:
2013 DigitalGlobe, GeoEye,
U.S. Geologoical Survey,
U.S.D.A. Farm Service Agency,
2013 Google

ECS LLP
CAROLINAS

FIGURE 2
BORING LOCATION PLAN
HANES MILL REDEVELOPMENT
STRATFORD ROAD
WINSTON SALEM, NORTH CAROLINA

DRAWN BY/DATE: MR/10-01-13

PROJECT NO. 09 23207

Parameter				
Sample ID	B-4	B-8	B-9	B-10
Collection Depth (feet bgs)	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5
Collection Date	8/30/13	8/30/13	8/30/13	8/30/13
Volatile Organic Compounds by Method 8260				
Acetone	<0.096	NA	<0.099	NA
Acrylonitrile	<0.0058	NA	<0.0059	NA
tert-Amyl Methyl Ether (TAME)	<0.0019	NA	<0.0020	NA
Benzene	<0.0019	NA	<0.0020	NA
Bromobenzene	<0.0019	NA	<0.0020	NA
Bromochloromethane	<0.0019	NA	<0.0020	NA
Bromodichloromethane	<0.0019	NA	<0.0020	NA
Bromoform	<0.0019	NA	<0.0020	NA
Bromomethane	<0.0096	NA	<0.0099	NA
2-Butanone (MEK)	<0.039	NA	<0.039	NA
tert-Butyl Alcohol (TBA)	<0.039	NA	<0.039	NA
n-Butylbenzene	<0.0039	NA	<0.0039	NA
sec-Butylbenzene	<0.0019	NA	<0.0020	NA
tert-Butylbenzene	<0.0019	NA	<0.0020	NA
tert-Butyl Ethyl Ether (TBEE)	<0.00096	NA	<0.00099	NA
Carbon Disulfide	<0.0058	NA	<0.0059	NA
Carbon Tetrachloride	<0.0039	NA	<0.0039	NA
Chlorobenzene	<0.0019	NA	<0.0020	NA
Chlorodibromomethane	<0.00096	NA	<0.00099	NA
Chloroethane	<0.019	NA	<0.020	NA
Chloroform	<0.0039	NA	<0.0039	NA
Chloromethane	<0.0096	NA	<0.0099	NA
2-Chlorotoluene	<0.0019	NA	<0.0020	NA
4-Chlorotoluene	<0.0019	NA	<0.0020	NA
1,2-Dibromo-3-chloropropane (DBCP)	<0.0039	NA	<0.0039	NA
1,2-Dibromoethane (EDB)	<0.0019	NA	<0.0020	NA
Dibromomethane	<0.0019	NA	<0.0020	NA
1,2-Dichlorobenzene	<0.0019	NA	<0.0020	NA
1,3-Dichlorobenzene	<0.0019	NA	<0.0020	NA
1,4-Dichlorobenzene	<0.0019	NA	<0.0020	NA
trans-1,4-Dichloro-2-butene	<0.0039	NA	<0.0039	NA
Dichlorodifluoromethane (Freon 12)	<0.019	NA	<0.020	NA
1,1-Dichloroethane	<0.0019	NA	<0.0020	NA
1,2-Dichloroethane	<0.0019	NA	<0.0020	NA
1,1-Dichloroethylene	<0.0039	NA	<0.0039	NA
cis-1,2-Dichloroethylene	<0.0019	NA	<0.0020	NA
trans-1,2-Dichloroethylene	<0.0019	NA	<0.0020	NA
1,2-Dichloropropane	<0.0019	NA	<0.0020	NA
1,3-Dichloropropane	<0.00096	NA	<0.00099	NA
2,2-Dichloropropane	<0.0019	NA	<0.0020	NA
1,1-Dichloropropene	<0.0019	NA	<0.0020	NA
cis-1,3-Dichloropropene	<0.0039	NA	<0.0039	NA
trans-1,3-Dichloropropene	<0.0096	NA	<0.0099	NA
Diethyl Ether	<0.019	NA	<0.020	NA
Diisopropyl Ether (DIPE)	<0.00096	NA	<0.00099	NA
1,4-Dioxane	<0.19	NA	<0.20	NA
Ethylbenzene	<0.0019	NA	<0.0020	NA
Hexachlorobutadiene	<0.0039	NA	<0.0039	NA
2-Hexanone (MBK)	<0.019	NA	<0.020	NA
Isopropylbenzene (Cumene)	<0.0019	NA	<0.0020	NA
p-Isopropyltoluene (p-Cymene)	<0.0019	NA	<0.0020	NA
Methyl tert-Butyl Ether (MTBE)	<0.0039	NA	<0.0039	NA
Methylene Chloride	<0.019	NA	<0.020	NA
4-Methyl-2-pentanone (MIBK)	<0.019	NA	<0.020	NA
Naphthalene	<0.0039	NA	<0.0039	NA
n-Propylbenzene	<0.0019	NA	<0.0020	NA
Styrene	<0.0019	NA	<0.0020	NA
1,1,1,2-Tetrachloroethane	<0.0019	NA	<0.0020	NA
1,1,2,2-Tetrachloroethane	<0.00096	NA	<0.00099	NA
Tetrachloroethylene	<0.0019	NA	<0.0020	NA
Tetrahydrofuran	<0.0096	NA	<0.0099	NA
Toluene	<0.0019	NA	<0.0020	NA
1,2,3-Trichlorobenzene	<0.0019	NA	<0.0020	NA
1,2,4-Trichlorobenzene	<0.0019	NA	<0.0020	NA
1,3,5-Trichlorobenzene	<0.0096	NA	<0.0099	NA
1,1,1-Trichloroethane	<0.0019	NA	<0.0020	NA
1,1,2-Trichloroethane	<0.0019	NA	<0.0020	NA
Trichloroethylene	<0.0019	NA	<0.0020	NA
Trichlorofluoromethane (Freon 11)	<0.0096	NA	<0.0099	NA
1,2,3-Trichloropropane	<0.0019	NA	<0.0020	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	<0.0096	NA	<0.0099	NA
1,2,4-Trimethylbenzene	<0.0019	NA	<0.0020	NA
1,3,5-Trimethylbenzene	<0.0019	NA	<0.0020	NA
Vinyl Chloride	<0.0096	NA	<0.0099	NA
m+p Xylene	<0.0039	NA	<0.0039	NA
o-Xylene	<0.0019	NA	<0.0020	NA

Parameter				
Sample ID	B-4	B-8	B-9	B-10
Collection Depth (feet bgs)	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5
Collection Date	8/30/13	8/30/13	8/30/13	8/30/13
Semi-Volatile Organic Compounds by Method 8270				
Acenaphthene	<0.25	<0.23	<0.26	<0.26
Acenaphthylene	<0.25	<0.23	<0.26	<0.26
Acetophenone	<0.50	<0.46	<0.51	<0.52
Aniline	<0.50	<0.46	<0.51	<0.52
Anthracene	<0.25	<0.23	<0.26	<0.26
Benzidine	<0.97	<0.88	<1.0	<1.0
Benzo(a)anthracene	<0.25	<0.23	<0.26	<0.26
Benzo(a)pyrene	<0.25	<0.23	<0.26	<0.26
Benzo(b)fluoranthene	<0.25	<0.23	<0.26	<0.26
Benzo(g,h,i)perylene	<0.25	<0.23	<0.26	<0.26
Benzo(k)fluoranthene	<0.25	<0.23	<0.26	<0.26
Benzoic Acid	<1.5	<1.3	<1.5	<1.5
Bis(2-chloroethoxy)methane	<0.50	<0.46	<0.51	<0.52
Bis(2-chloroethyl)ether	<0.50	<0.46	<0.51	<0.52
Bis(2-chloroisopropyl)ether	<0.50	<0.46	<0.51	<0.52
Bis(2-Ethylhexyl)phthalate	<0.50	<0.46	<0.51	<0.52
4-Bromophenylphenylether	<0.50	<0.46	<0.51	<0.52
Butylbenzylphthalate	<0.50	<0.46	<0.51	<0.52
Carbazole	<0.25	<0.23	<0.26	<0.26
4-Chloroaniline	<0.97	<0.88	<1.0	<1.0
4-Chloro-3-methylphenol	<0.97	<0.88	<1.0	<1.0
2-Chloronaphthalene	<0.50	<0.46	<0.51	<0.52
2-Chlorophenol	<0.50	<0.46	<0.51	<0.52
4-Chlorophenylphenylether	<0.50	<0.46	<0.51	<0.52
Chrysene	<0.25	<0.23	<0.26	<0.26
Dibenz(a,h)anthracene	<0.25	<0.23	<0.26	<0.26
Dibenzofuran	<0.50	<0.46	<0.51	<0.52
Di-n-butylphthalate	<0.50	<0.46	<0.51	<0.52
1,2-Dichlorobenzene	<0.50	<0.46	<0.51	<0.52
1,3-Dichlorobenzene	<0.50	<0.46	<0.51	<0.52
1,4-Dichlorobenzene	<0.50	<0.46	<0.51	<0.52
3,3-Dichlorobenzidine	<0.25	<0.23	<0.26	<0.26
2,4-Dichlorophenol	<0.50	<0.46	<0.51	<0.52
Diethylphthalate	<0.50	<0.46	<0.51	<0.52
2,4-Dimethylphenol	<0.50	<0.46	<0.51	<0.52
Dimethylphthalate	<0.50	<0.46	<0.51	<0.52
4,6-Dinitro-2-methylphenol	<0.50	<0.46	<0.51	<0.52
2,4-Dinitrophenol	<0.97	<0.88	<1.0	<1.0
2,4-Dinitrotoluene	<0.50	<0.46	<0.51	<0.52
2,6-Dinitrotoluene	<0.50	<0.46	<0.51	<0.52
Di-n-octylphthalate	<0.99	<0.90	<1.0	<1.0
1,2-Diphenylhydrazine (as Azobenzene)	<0.50	<0.46	<0.51	<0.52
Fluoranthene	<0.25	<0.23	<0.26	<0.26
Fluorene	<0.25	<0.23	<0.26	<0.26
Hexachlorobenzene	<0.50	<0.46	<0.51	<0.52
Hexachlorobutadiene	<0.50	<0.46	<0.51	<0.52
Hexachlorocyclopentadiene	<0.50	<0.46	<0.51	<0.52
Hexachloroethane	<0.50	<0.46	<0.51	<0.52
Indeno(1,2,3-cd)pyrene	<0.25	<0.23	<0.26	<0.26
Isophorone	<0.50	<0.46	<0.51	<0.52
1-Methylnaphthalene	<0.25	<0.23	<0.26	<0.26
2-Methylnaphthalene	<0.25	<0.23	<0.26	<0.26
2-Methylphenol	<0.50	<0.46	<0.51	<0.52
3/4-Methylphenol	<0.50	<0.46	<0.51	<0.52
Naphthalene	<0.25	<0.23	<0.26	<0.26
2-Nitroaniline	<0.50	<0.46	<0.51	<0.52
3-Nitroaniline	<0.50	<0.46	<0.51	<0.52
4-Nitroaniline	<0.50	<0.46	<0.51	<0.52
Nitrobenzene	<0.50	<0.46	<0.51	<0.52
2-Nitrophenol	<0.50	<0.46	<0.51	<0.52
4-Nitrophenol	<0.97	<0.88	<1.0	<1.0
N-Nitrosodimethylamine	<0.50	<0.46	<0.51	<0.52
N-Nitrosodiphenylamine	<0.50	<0.46	<0.51	<0.52
N-Nitrosodi-n-propylamine	<0.50	<0.46	<0.51	<0.52
Pentachloronitrobenzene	<0.50	<0.46	<0.51	<0.52
Pentachlorophenol	<0.50	<0.46	<0.51	<0.52
Phenanthrene	<0.25	<0.23	<0.26	<0.26
Phenol	<0.50	<0.46	<0.51	<0.52
Pyrene	<0.25	<0.23	<0.26	<0.26
Pyridine	<0.50	<0.46	<0.51	<0.52
1,2,4,5-Tetrachlorobenzene	<0.50	<0.46	<0.51	<0.52
1,2,4-Trichlorobenzene	<0.50	<0.46	<0.51	<0.52
2,4,5-Trichlorophenol	<0.50	<0.46	<0.51	<0.52
2,4,6-Trichlorophenol	<0.50	<0.46	<0.51	<0.52

Parameter				
Sample ID	B-4	B-8	B-9	B-10
Collection Depth (feet bgs)	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5
Collection Date	8/30/13	8/30/13	8/30/13	8/30/13
Petroleum Hydrocarbons Analyses				
Gasoline Range Organics	<3.8	NA	NA	NA
Diesel Range Organics	3.2	2.5	NA	4.6
PCBs by Method 8080				
Aroclor-1016	NA	<0.13	NA	<0.15
Aroclor-1221	NA	<0.13	NA	<0.15
Aroclor-1232	NA	<0.13	NA	<0.15
Aroclor-1242	NA	<0.13	NA	<0.15
Aroclor-1248	NA	<0.13	NA	<0.15
Aroclor-1254	NA	<0.13	NA	<0.15
Aroclor-1260	NA	<0.13	NA	<0.15
Aroclor-1262	NA	<0.13	NA	<0.15
Aroclor-1268	NA	<0.13	NA	<0.15
Total Metals By MethodS 6010, 747,and 7196				
Arsenic	NA	NA	<3.6	NA
Barium	NA	NA	90	NA
Cadmium	NA	NA	0.8	NA
Chromium	NA	NA	20	NA
Lead	NA	NA	30	NA
Mercury	NA	NA	<0.037	NA
Selenium	NA	NA	<7.3	NA
Silver	NA	NA	<1.5	NA
Hexavalent Chromium	NA	NA	NA	NA
Notes:				
mg/kg = milligram per killogram				
NA = Not analyzed by this method				

Parameter								
Sample ID	B-11	B-19	B-23	HA-4	HA-5	HA-10	HA-11	HA-13
Collection Depth (feet bgs)	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5
Collection Date	8/30/13	8/30/13	8/30/13	9/24/13	9/24/13	9/24/13	9/24/13	9/24/13
Volatile Organic Compounds by Method 8260								
Acetone	<0.14	NA	<0.079	<0.059	<0.10	<0.084	<0.11	<0.089
Acrylonitrile	<0.0084	NA	<0.0048	<0.0035	<0.0063	<0.0051	<0.0067	<0.0053
tert-Amyl Methyl Ether (TAME)	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Benzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Bromobenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Bromochloromethane	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Bromodichloromethane	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Bromoform	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Bromomethane	<0.014	NA	<0.0079	<0.0059	<0.010	<0.0084	<0.011	<0.0089
2-Butanone (MEK)	<0.056	NA	<0.032	<0.024	<0.042	<0.034	<0.045	<0.035
tert-Butyl Alcohol (TBA)	<0.056	NA	<0.032	<0.024	<0.042	<0.034	<0.045	<0.035
n-Butylbenzene	<0.0056	NA	<0.0032	<0.0024	<0.0042	<0.0034	<0.0045	<0.0035
sec-Butylbenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
tert-Butylbenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
tert-Butyl Ethyl Ether (TBEE)	<0.0014	NA	<0.00079	<0.00059	<0.0010	<0.00084	<0.0011	<0.00089
Carbon Disulfide	<0.0084	NA	<0.0048	<0.0035	<0.0063	<0.0051	<0.0067	<0.0053
Carbon Tetrachloride	<0.0056	NA	<0.0032	<0.0024	<0.0042	<0.0034	<0.0045	<0.0035
Chlorobenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Chlorodibromomethane	<0.0014	NA	<0.00079	<0.00059	<0.0010	<0.00084	<0.0011	<0.00089
Chloroethane	<0.028	NA	<0.016	<0.012	<0.021	<0.017	<0.022	<0.018
Chloroform	<0.0056	NA	<0.0032	<0.0024	<0.0042	<0.0034	<0.0045	<0.0035
Chloromethane	<0.014	NA	<0.0079	<0.0059	<0.010	<0.0084	<0.011	<0.0089
2-Chlorotoluene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
4-Chlorotoluene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,2-Dibromo-3-chloropropane (DBCP)	<0.0056	NA	<0.0032	<0.0024	<0.0042	<0.0034	<0.0045	<0.0035
1,2-Dibromoethane (EDB)	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Dibromomethane	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,2-Dichlorobenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,3-Dichlorobenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,4-Dichlorobenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
trans-1,4-Dichloro-2-butene	<0.0056	NA	<0.0032	<0.0024	<0.0042	<0.0034	<0.0045	<0.0035
Dichlorodifluoromethane (Freon 12)	<0.028	NA	<0.016	<0.012	<0.021	<0.017	<0.022	<0.018
1,1-Dichloroethane	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,2-Dichloroethane	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,1-Dichloroethylene	<0.0056	NA	<0.0032	<0.0024	<0.0042	<0.0034	<0.0045	<0.0035
cis-1,2-Dichloroethylene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
trans-1,2-Dichloroethylene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,2-Dichloropropane	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,3-Dichloropropane	<0.0014	NA	<0.00079	<0.00059	<0.0010	<0.00084	<0.0011	<0.00089
2,2-Dichloropropane	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,1-Dichloropropene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
cis-1,3-Dichloropropene	<0.0056	NA	<0.0032	<0.0024	<0.0042	<0.0034	<0.0045	<0.0035
trans-1,3-Dichloropropene	<0.014	NA	<0.0079	<0.0059	<0.010	<0.0084	<0.011	<0.0089
Diethyl Ether	<0.028	NA	<0.016	<0.012	<0.021	<0.017	<0.022	<0.018
Diisopropyl Ether (DIPE)	<0.0014	NA	<0.00079	<0.00059	<0.0010	<0.00084	<0.0011	<0.00089
1,4-Dioxane	<0.28	NA	<0.16	<0.12	<0.21	<0.17	<0.22	<0.18
Ethylbenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Hexachlorobutadiene	<0.0056	NA	<0.0032	<0.0024	<0.0042	<0.0034	<0.0045	<0.0035
2-Hexanone (MBK)	<0.028	NA	<0.016	<0.012	<0.021	<0.017	<0.022	<0.018
Isopropylbenzene (Cumene)	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
p-Isopropyltoluene (p-Cymene)	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Methyl tert-Butyl Ether (MTBE)	<0.0056	NA	<0.0032	<0.0024	<0.0042	<0.0034	<0.0045	<0.0035
Methylene Chloride	<0.028	NA	<0.016	<0.012	<0.021	<0.017	<0.022	<0.018
4-Methyl-2-pentanone (MIBK)	<0.028	NA	<0.016	<0.012	<0.021	<0.017	<0.022	<0.018
Naphthalene	<0.0056	NA	<0.0032	<0.0024	<0.0042	<0.0034	<0.0045	<0.0035
n-Propylbenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Styrene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,1,1,2-Tetrachloroethane	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,1,2,2-Tetrachloroethane	<0.0014	NA	<0.00079	<0.00059	<0.0010	<0.00084	<0.0011	<0.00089
Tetrachloroethylene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Tetrahydrofuran	<0.014	NA	<0.0079	<0.0059	<0.010	<0.0084	<0.011	<0.0089
Toluene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,2,3-Trichlorobenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,2,4-Trichlorobenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,3,5-Trichlorobenzene	<0.014	NA	<0.0079	<0.0059	<0.010	<0.0084	<0.011	<0.0089
1,1,1-Trichloroethane	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,1,2-Trichloroethane	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Trichloroethylene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Trichlorofluoromethane (Freon 11)	<0.014	NA	<0.0079	<0.0059	<0.010	<0.0084	<0.011	<0.0089
1,2,3-Trichloropropane	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	<0.014	NA	<0.0079	<0.0059	<0.010	<0.0084	<0.011	<0.0089
1,2,4-Trimethylbenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
1,3,5-Trimethylbenzene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018
Vinyl Chloride	<0.014	NA	<0.0079	<0.0059	<0.010	<0.0084	<0.011	<0.0089
m+p Xylene	<0.0056	NA	<0.0032	<0.0024	<0.0042	<0.0034	<0.0045	<0.0035
o-Xylene	<0.0028	NA	<0.0016	<0.0012	<0.0021	<0.0017	<0.0022	<0.0018

Parameter	Sample Location							
Sample ID	B-11	B-19	B-23	HA-4	HA-5	HA-10	HA-11	HA-13
Collection Depth (feet bgs)	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5
Collection Date	8/30/13	8/30/13	8/30/13	9/24/13	9/24/13	9/24/13	9/24/13	9/24/13
Semi-Volatile Organic Compounds by Method 8270								
Acenaphthene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Acenaphthylene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Acetophenone	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Aniline	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Anthracene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Benzidine	<0.93	<0.75	<0.86	<0.68	<0.90	<0.78	<1.0	<0.95
Benzo(a)anthracene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Benzo(a)pyrene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Benzo(b)fluoranthene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Benzo(g,h,i)perylene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Benzo(k)fluoranthene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Benzoic Acid	<1.4	<1.1	<1.3	<1.0	<1.4	<1.2	<1.6	<1.4
Bis(2-chloroethoxy)methane	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Bis(2-chloroethyl)ether	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Bis(2-chloroisopropyl)ether	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Bis(2-Ethylhexyl)phthalate	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
4-Bromophenylphenylether	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Butylbenzylphthalate	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Carbazole	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
4-Chloroaniline	<0.93	<0.75	<0.86	<0.68	<0.90	<0.78	<1.0	<0.95
4-Chloro-3-methylphenol	<0.93	<0.75	<0.86	<0.68	<0.90	<0.78	<1.0	<0.95
2-Chloronaphthalene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
2-Chlorophenol	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
4-Chlorophenylphenylether	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Chrysene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Dibenz(a,h)anthracene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Dibenzofuran	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Di-n-butylphthalate	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
1,2-Dichlorobenzene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
1,3-Dichlorobenzene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
1,4-Dichlorobenzene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
3,3-Dichlorobenzidine	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
2,4-Dichlorophenol	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Diethylphthalate	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
2,4-Dimethylphenol	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Dimethylphthalate	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
4,6-Dinitro-2-methylphenol	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
2,4-Dinitrophenol	<0.93	<0.75	<0.86	<0.68	<0.90	<0.78	<1.0	<0.95
2,4-Dinitrotoluene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
2,6-Dinitrotoluene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Di-n-octylphthalate	<0.94	<0.76	<0.87	<0.69	<0.92	<0.79	<1.0	<0.96
1,2-Diphenylhydrazine (as Azobenzene)	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Fluoranthene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Fluorene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Hexachlorobenzene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Hexachlorobutadiene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Hexachlorocyclopentadiene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Hexachloroethane	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Indeno(1,2,3-cd)pyrene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Isophorone	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
1-Methylnaphthalene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
2-Methylnaphthalene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
2-Methylphenol	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
3/4-Methylphenol	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Naphthalene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
2-Nitroaniline	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
3-Nitroaniline	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
4-Nitroaniline	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Nitrobenzene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
2-Nitrophenol	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
4-Nitrophenol	<0.93	<0.75	<0.86	<0.68	<0.90	<0.78	<1.0	<0.95
N-Nitrosodimethylamine	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
N-Nitrosodiphenylamine	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
N-Nitrosodi-n-propylamine	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Pentachloronitrobenzene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Pentachlorophenol	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Phenanthrene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Phenol	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
Pyrene	<0.24	<0.19	<0.22	<0.18	<0.23	<0.20	<0.26	<0.24
Pyridine	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
1,2,4,5-Tetrachlorobenzene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
1,2,4-Trichlorobenzene	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
2,4,5-Trichlorophenol	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49
2,4,6-Trichlorophenol	<0.48	<0.39	<0.44	<0.35	<0.47	<0.40	<0.53	<0.49

Parameter	Sample Location							
Sample ID	B-11	B-19	B-23	HA-4	HA-5	HA-10	HA-11	HA-13
Collection Depth (feet bgs)	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5
Collection Date	8/30/13	8/30/13	8/30/13	9/24/13	9/24/13	9/24/13	9/24/13	9/24/13
Petroleum Hydrocarbons Analyses								
Gasoline Range Organics	<5.0	NA	<3.8	NA	<2.5	NA	NA	NA
Diesel Range Organics	5	3.2	11	NA	5.3	NA	NA	NA
PCBs by Method 8080								
Aroclor-1016	NA	<0.11	NA	NA	NA	NA	NA	NA
Aroclor-1221	NA	<0.11	NA	NA	NA	NA	NA	NA
Aroclor-1232	NA	<0.11	NA	NA	NA	NA	NA	NA
Aroclor-1242	NA	<0.11	NA	NA	NA	NA	NA	NA
Aroclor-1248	NA	<0.11	NA	NA	NA	NA	NA	NA
Aroclor-1254	NA	<0.11	NA	NA	NA	NA	NA	NA
Aroclor-1260	NA	<0.11	NA	NA	NA	NA	NA	NA
Aroclor-1262	NA	<0.11	NA	NA	NA	NA	NA	NA
Aroclor-1268	NA	<0.11	NA	NA	NA	NA	NA	NA
Total Metals By MethodS 6010, 747,and 7196								
Arsenic	NA	NA	NA	<2.4	NA	<3.0	<3.8	<3.6
Barium	NA	NA	NA	41	NA	91	15	680
Cadmium	NA	NA	NA	0.77	NA	0.56	0.57	0.59
Chromium	NA	NA	NA	29	NA	33	34	570
Lead	NA	NA	NA	20	NA	33	19	29
Mercury	NA	NA	NA	0.0067	NA	0.029	0.019	0.075
Selenium	NA	NA	NA	<4.8	NA	<6.0	<7.7	<7.2
Silver	NA	NA	NA	<0.48	NA	<0.60	<0.77	<1.4
Hexavalent Chromium	NA	NA	NA	NA	NA	<0.19	NA	NA

Notes:
mg/kg = milligram per killogram
NA = Not analyzed by this method

Parameter	
Sample ID	HA-15
Collection Depth (feet bgs)	2.5-3.5
Collection Date	9/24/13
Volatile Organic Compounds by Method 8260	
Acetone	<0.065
Acrylonitrile	<0.0039
tert-Amyl Methyl Ether (TAME)	<0.0013
Benzene	<0.0013
Bromobenzene	<0.0013
Bromochloromethane	<0.0013
Bromodichloromethane	<0.0013
Bromoform	<0.0013
Bromomethane	<0.0065
2-Butanone (MEK)	<0.026
tert-Butyl Alcohol (TBA)	<0.026
n-Butylbenzene	<0.0026
sec-Butylbenzene	<0.0013
tert-Butylbenzene	<0.0013
tert-Butyl Ethyl Ether (TBEE)	<0.00065
Carbon Disulfide	<0.0039
Carbon Tetrachloride	<0.0026
Chlorobenzene	<0.0013
Chlorodibromomethane	<0.00065
Chloroethane	<0.013
Chloroform	<0.0026
Chloromethane	<0.0065
2-Chlorotoluene	<0.0013
4-Chlorotoluene	<0.0013
1,2-Dibromo-3-chloropropane (DBCP)	<0.0026
1,2-Dibromoethane (EDB)	<0.0013
Dibromomethane	<0.0013
1,2-Dichlorobenzene	<0.0013
1,3-Dichlorobenzene	<0.0013
1,4-Dichlorobenzene	<0.0013
trans-1,4-Dichloro-2-butene	<0.0026
Dichlorodifluoromethane (Freon 12)	<0.013
1,1-Dichloroethane	<0.0013
1,2-Dichloroethane	<0.0013
1,1-Dichloroethylene	<0.0026
cis-1,2-Dichloroethylene	<0.0013
trans-1,2-Dichloroethylene	<0.0013
1,2-Dichloropropane	<0.0013
1,3-Dichloropropane	<0.00065
2,2-Dichloropropane	<0.0013
1,1-Dichloropropene	<0.0013
cis-1,3-Dichloropropene	<0.0026
trans-1,3-Dichloropropene	<0.0065
Diethyl Ether	<0.013
Diisopropyl Ether (DIPE)	<0.00065
1,4-Dioxane	<0.13

Ethylbenzene	<0.0013
Hexachlorobutadiene	<0.0026
2-Hexanone (MBK)	<0.013
Isopropylbenzene (Cumene)	<0.0013
p-Isopropyltoluene (p-Cymene)	<0.0013
Methyl tert-Butyl Ether (MTBE)	<0.0026
Methylene Chloride	<0.013
4-Methyl-2-pentanone (MIBK)	<0.013
Naphthalene	<0.0026
n-Propylbenzene	<0.0013
Styrene	<0.0013
1,1,1,2-Tetrachloroethane	<0.0013
1,1,2,2-Tetrachloroethane	<0.00065
Tetrachloroethylene	<0.0013
Tetrahydrofuran	<0.0065
Toluene	<0.0013
1,2,3-Trichlorobenzene	<0.0013
1,2,4-Trichlorobenzene	<0.0013
1,3,5-Trichlorobenzene	<0.0065
1,1,1-Trichloroethane	<0.0013
1,1,2-Trichloroethane	<0.0013
Trichloroethylene	<0.0013
Trichlorofluoromethane (Freon 11)	<0.0065
1,2,3-Trichloropropane	<0.0013
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	<0.0065
1,2,4-Trimethylbenzene	<0.0013
1,3,5-Trimethylbenzene	<0.0013
Vinyl Chloride	<0.0065
m+p Xylene	<0.0026
o-Xylene	<0.0013

Parameter	
Sample ID	HA-15
Collection Depth (feet bgs)	2.5-3.5
Collection Date	9/24/13

Semi-Volatile Organic Compounds by Method 8270

Acenaphthene	<0.23
Acenaphthylene	<0.23
Acetophenone	<0.45
Aniline	<0.45
Anthracene	<0.23
Benzidine	<0.88
Benzo(a)anthracene	<0.23
Benzo(a)pyrene	<0.23
Benzo(b)fluoranthene	<0.23
Benzo(g,h,i)perylene	<0.23
Benzo(k)fluoranthene	<0.23
Benzoic Acid	<1.3
Bis(2-chloroethoxy)methane	<0.45
Bis(2-chloroethyl)ether	<0.45
Bis(2-chloroisopropyl)ether	<0.45
Bis(2-Ethylhexyl)phthalate	<0.45
4-Bromophenylphenylether	<0.45
Butylbenzylphthalate	<0.45
Carbazole	<0.23
4-Chloroaniline	<0.88
4-Chloro-3-methylphenol	<0.88

2-Chloronaphthalene	<0.45
2-Chlorophenol	<0.45
4-Chlorophenylphenylether	<0.45
Chrysene	<0.23
Dibenz(a,h)anthracene	<0.23
Dibenzofuran	<0.45
Di-n-butylphthalate	<0.45
1,2-Dichlorobenzene	<0.45
1,3-Dichlorobenzene	<0.45
1,4-Dichlorobenzene	<0.45
3,3-Dichlorobenzidine	<0.23
2,4-Dichlorophenol	<0.45
Diethylphthalate	<0.45
2,4-Dimethylphenol	<0.45
Dimethylphthalate	<0.45
4,6-Dinitro-2-methylphenol	<0.45
2,4-Dinitrophenol	<0.88
2,4-Dinitrotoluene	<0.45
2,6-Dinitrotoluene	<0.45
Di-n-octylphthalate	<0.90
1,2-Diphenylhydrazine (as Azobenzene)	<0.45
Fluoranthene	<0.23
Fluorene	<0.23
Hexachlorobenzene	<0.45
Hexachlorobutadiene	<0.45
Hexachlorocyclopentadiene	<0.45
Hexachloroethane	<0.45
Indeno(1,2,3-cd)pyrene	<0.23
Isophorone	<0.45
1-Methylnaphthalene	<0.23
2-Methylnaphthalene	<0.23
2-Methylphenol	<0.45
3/4-Methylphenol	<0.45
Naphthalene	<0.23
2-Nitroaniline	<0.45
3-Nitroaniline	<0.45
4-Nitroaniline	<0.45
Nitrobenzene	<0.45
2-Nitrophenol	<0.45
4-Nitrophenol	<0.88
N-Nitrosodimethylamine	<0.45
N-Nitrosodiphenylamine	<0.45
N-Nitrosodi-n-propylamine	<0.45
Pentachloronitrobenzene	<0.45
Pentachlorophenol	<0.45
Phenanthrene	<0.23
Phenol	<0.45
Pyrene	<0.23
Pyridine	<0.45
1,2,4,5-Tetrachlorobenzene	<0.45
1,2,4-Trichlorobenzene	<0.45
2,4,5-Trichlorophenol	<0.45

2,4,6-Trichlorophenol	<0.45

Parameter	
Sample ID	HA-15
Collection Depth (feet bgs)	2.5-3.5
Collection Date	9/24/13

Petroleum Hydrocarbons Analyses	
Gasoline Range Organics	NA
Diesel Range Organics	NA
PCBs by Method 8080	
Aroclor-1016	NA
Aroclor-1221	NA
Aroclor-1232	NA
Aroclor-1242	NA
Aroclor-1248	NA
Aroclor-1254	NA
Aroclor-1260	NA
Aroclor-1262	NA
Aroclor-1268	NA
Total Metals By MethodS 6010, 747,and 7196	
Arsenic	<3.2
Barium	20
Cadmium	0.74
Chromium	50
Lead	18
Mercury	0.039
Selenium	<6.4
Silver	<0.64
Hexavalent Chromium	NA
Notes:	
mg/kg = milligram per killogram	
NA = Not analyzed by this method	