Prioritization Assessment Report
Rollins Economy Cleaners

DSCA ID: 92-0048
407 W. Peace Street
Raleigh, Wake County

North Carolina Dry-Cleaning Solvent Cleanup Act Program

H&H Job No. DS0-79B
December 19, 2013

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

#C-1269 Engineering
#245 Geology

2923 South Tryon Street, Suite 100
Charlotte, NC 28203
704.586.0007 main

3334 Hillsborough Street
Raleigh, NC 27607
919.847.4241 main

www.harthickman.com

Assessment Report Forms
for
North Carolina Dry-Cleaning Solvent Cleanup Act Program

Facility Name:	Rollins Economy Cleaners
	407 W. Peace Street, Raleigh, Wake County
DSCA ID No.:	92-0048
Submittal Date:	December 19, 2013
Prepared By:	Hart & Hickman, PC
	2923 S. Tryon Street, Suite 100, Charlotte, NC 28203

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Assessment Report Attachments		
Att. 1	Site location map.	☑
Att. 2	Historical aerial photograph.	☐
Att. 3	Historical maps and fire insurance records.	☐
Att. 4	Facility as-building drawings.	☐
Att. 5	Facility layout diagram indicating the following (if applicable): (i) Service doors, (ii) current and historic location of drycleaning equipment, (iii) solvent/waste storage areas (including ASTs and USTs), (iv) distillation unit, (v) location of septic tank/drainfield or sanitary sewer lateral line, (vi) floor drains, (vii) storm sewer, (viii) expansion joints and cracks in floor, (ix) location of utilities, and (x) location of dumpsters.	☑
Att. 6	Utility records, including videos of sewer lines and pressure testing.	☐
Att. 7	Scaled vicinity map illustrating surrounding land use within 500 foot and 0.5 mile radii of the site.	☑
Att. 8	USGS Quad map with plotted water well location(s) within the 1,500 foot and 0.5 mile radii of the site.	☑
Att. 9	Area geologic map/relevant cross-sections.	☑
Att. 10	Soil boring logs which must include the following: (i) OVA or other field screening readings, (ii) depth of samples collect, (iii) odor, (iv) staining, (v) blow counts (if applicable), (vi) interval recovery, (vii) structures and/or bedding, (viii) moisture content, and (ix) borehole disposition (abandonment or conversion to monitor well).	☑
Att. 11	Site map showing location(s) of soil sample(s).	☑
Att. 12	Soil contaminant concentration maps showing the concentration at each sampling point.	☐
Att. 13	Soil isoconcentration maps.	☑
Att. 14	Site map showing location(s) of monitoring well(s).	☐
Att. 15	Well completion diagrams and records of construction submitted to state.	☐
Att. 16	Groundwater gradient map.	☐
Att. 17	Groundwater contaminant concentration maps showing the concentration at each sampling point and isoconcentration maps.	☑
Att. 18	Map showing location(s) of surface water sample(s) (if applicable).	☐
Att. 19	Surface water concentration map showing the concentration at each sampling point (if applicable).	☑

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Assessment Report Attachments continued (Page 2 of 2)		
Att. 20	Map showing location(s) of water supply well(s) (if applicable).	☐
Att. 21	Laboratory analytical reports including chain-of custody and quality assurance/quality control (QA/QC) documentation.	☑
Att. 22	Sub-Slab Vapor and Subsurface Soil Gas Contaminant Concentration Map	☑
Att. 23		☐
Att. 24		☐
Att. 25		☐

Note:
1. All maps must include a bar scale, north arrow, site name, DSCA ID No., and date.

Facility Information **AR Form 1**

DSCA ID No.: 92-0048

- [x] Currently operating facility since 1/1/1950
- [ ] Previously operating facility since
- [ ] Temporarily out of service from ____ to ____
- [ ] Permanently out of service since

Provide the name, address and telephone number of the current dry-cleaning business and the dry-cleaning business owner. If no current business at the facility, provide the name and address of the last dry-cleaner doing business at the site.

Facility name: Rollins Economy Cleaners

Facility address (include name of shopping centre and the county where facility is located): 407 W. Peace Street, Raleigh, Wake County

Facility telephone number (if applicable): (919) 832-2950

Facility Owner's Name: Margie Marie Fuller

Owner's Mailing Address: PO Box 804, Wendell, NC 27591

Owner's Telephone number: (919) 365-8262

Provide the earliest known date of the facility use for dry-cleaning buisness and the name of the dry-cleaning buisness (if applicable).

1/1/1950, Rollins Economy Cleaners

Provide information on businesses that occupied the facility that may use or have used solvents and other chemicals. Identify solvents and chemicals used at the facility (if applicable).

The facility was purchased by Ms. Fuller in March 2003. Based on Sanborn Fire Insurance maps, a dry-cleaning facility was located on the site as early as 1950. The current facility operator reported that a tetrachloroethylene (PCE) transfer dry-cleaning machine and a Stoddard solvent dry-cleaning machine were in use until 1986, at which point a dry-to-dry PCE dry-cleaning machine was installed. Stoddard solvent was stored in an interior aboveground storage tank (AST). The AST is currently mounted to the facility ceiling and is reportedly empty. H&H identified a potential underground storage tank (UST) during utility location activities located outside near the southwest corner of the site building.

Report Prepared By

I certify that the prioritization assessment as stated in this report was prepared under my supervision.

NORTH CAROLINA PROFESSIONAL SEAL 027221 ENGINEER CHRISTIE E. ZAWTOCKI 12/19/13

Contractor — December 19, 2013 — Date

Christie Zawtocki, PE — Printed Name

Hart & Hickman, PC — Company Name

Site History **AR Form 2**

DSCA ID No.: 92-0048

Number of dry-cleaning machines used at current or former facility: **3**

Type of dry-cleaning machines used at current or former facility (e.g., transfer, dry-to-dry with vented exhaust, etc.).

Transfer PCE and Stoddard solvent machines in use until 1986.
Dry-to-dry PCE machine in use since 1986.

Type of dry-cleaning solvents used by each type of machine.

Stoddard solvent and PCE

Where are/were the dry-cleaning solvents stored at the facility site? (Machine base tanks, UST(s), AST(s), etc.)

PCE currently stored in base tank; Stoddard formerly stored in AST.

Are chlorinated dry cleaning solvents delivered to the facility by means of a closed, direct-coupled delivery system?

Yes

Are virgin (new) solvents stored in containers other than the dry-cleaning machine?	○ Yes	◉ No
Are or were any USTs or ASTs used to store any petroleum or hazardous substances other than dry-cleaning solvents at the facility	○ Yes	◉ No

If yes, provide information about the substance stored, year taken out of service, virgin solvent or waste solvent, etc.

Unknown. An AST formerly used to store Stoddard solvent is located inside the site building. A potential UST (unknown contents) is located outside at the southwest corner of the site building.

What methods of disposal are used or have been used for separator water?

According to the current facility operator, separator water has been disposed of by Safety-Kleen since 1986. Separator water disposal practices prior to 1986 are unknown.

Provide information about the current/historical waste management practices, including types of wastes that are/were generated and how the waste are/were stored and managed.

According to the current facility operator, waste PCE is stored in 5-gallon plastic pails and is disposed of by Safety-Kleen . Waste disposal practices prior to 1986 are unknown.

Site History | **AR Form 2**

DSCA ID No.: 92-0048

Ground Surface Conditions

- [x] Unpaved
- [x] Paved — % area paved: 90

Any visible cracks in pavement? (•) Yes ( ) No

Subsurface Utilities

In the space provided for additional notes, please indicate the location and distance from soil and/or groundwater contamination to the nearest subsurface utility line and access point (e.g., manhole).

Have the utilities been screened for vapor levels? ( ) Yes (•) No

If YES, attach documentation of vapor monitoring results.

Indicate which of the following utilities currently act as conduits, or are likely to become conduits, under the columns entitled "Impacted by Release," and "Potentially Impacted by Release," respectively.

	Depth [feet]	Type of Material	Flow Direction	Impacted by Release	Potentially Impacted by Release
[x] Sanitary sewer	Unknown	Unknown	Unknown	Unknown	Unlikely
[ ] Septic drainfields					
[x] Covered storm sewer	Unknown	Unknown	Unknown	Unknown	Unlikely
[ ] Open ditch					
[x] Water line	Unknown	Unknown	Unknown	Unknown	Unlikely
[x] Gas line	Unknown	Unknown	Unknown	Unknown	Unlikely
[ ] Electric line					
[ ] Telephone line					
[ ] Other					

Release Characterization

Date the release was discovered: 02/07/13

Date the release was reported: 03/07/13

Type of release (explain): PCE identified in soil and groundwater during a 1% Assessment.

Has the release been abated?	(•) Yes ( ) No	There is no evidence of on-going releases.
Is native soil impacted?	(•) Yes ( ) No	
Is groundwater impacted?	(•) Yes ( ) No	
Is surface water impacted?	(•) Yes ( ) No	

Release Discovery

- [ ] UST(s)/AST(s) removal
- [ ] Inventory control
- [ ] Facility remodeling/Construction activity
- [x] Environmental assessment
- [ ] Other (specify)
- [ ] Known spill incident
- [ ] Citizen complaint
- [ ] Assessment on adjacent property
- [ ] Unknown

Site History **AR Form 2**

DSCA ID No.: 92-0048

Source(s) of Release

- ☐ Spills/Overfills
- ☐ Piping
- ☐ Other (specify) PCE and TCE have been detected in soil and groundwater across the site; however, the details regarding the source(s) of the release are unknown.
- ☐ Tanks
- ☑ Unknown

Chemicals of Concern

- ☐ 1,1,1-Trichloroethane
- ☐ 1,1,2,2-Tetrachloroethane
- ☐ 1,1,2-Trichloroethanae
- ☐ 1,1-Dichloroethane
- ☑ 1,1-Dichloroethylene
- ☐ 1,2-Dichloroethane (EDC)
- ☑ Benzene
- ☐ Benzo(a)pyrene
- ☐ Carbon tetrachloride
- ☑ Chloroform
- ☑ Others 1,2,4-TMB, 1,3,5-TMB; p-Iropropyltoluene
- ☑ cis-1,2-Dichloroethylene
- ☑ Ethylbenzene
- ☐ Methyl tert-butyl ether (MTBE)
- ☑ Naphthalene
- ☑ Tetrachloroethylene
- ☑ Toluene
- ☑ trans-1,2-Dichloroethylene
- ☑ Trichloroethylene
- ☑ Vinyl chloride
- ☑ Xylenes (total)

Isopropylbenzene; n-Butylbenzene, sec-Butylbenzene; tert-Butylbenzene, n-Propylbenzen

Additional Notes

The primary constituents of concern at the site are PCE and its degradation products (TCE, cis-1,2-DCE, trans-1,2-DCE, and VC). These constituents have been detected in soil and/or groundwater above DSCA Tier 1 RBSLs. The presence of these constituents is believed to be associated with a release of the dry-cleaning solvent PCE. In addition, benzene, ethylbenzene, naphthalene, xylenes, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,1-dichloroethene, isopropylbenzene, n-butylbenzene, n-propylbenzene, p-isopropyltoluene, sec-butylbenzene, and tert-butylbenzene have been detected at the site in soil and/or groundwater at concentrations above DSCA Tier 1 RBSLs/NC 2L groundwater standards. The presence of these constituents is believed to be associated with the historical use of petroluem-based (i.e., Stoddard) dry-cleaning solvents.

In addition to those listed above, toluene, acetone, bromomethane, chloroform, and 4-methyl-2-pentanone have been detected in soil and/or groundwater at concentrations below DSCA Tier 1 RBSLs/NC 2L groundwater standards.

Land Use and Receptor Survey **AR Form 3**

DSCA ID No.: 92-0048

Land Use

On-site Land Use	Current	Future
Residential	○	○
Commercial/Industrial	◉	◉
Other	○	○

Justify the choice for future land use:

The property is currently an active dry-cleaning facility. There are no current redevelopment plans; however, as part of nearby roadway improvements, the potential exists that the building will be partially or wholly demolished. In this case, the site land use would be a roadway.

Immediate Off-site Land Use (within 500 feet - at a minimum, state whether, residential, commercial/industrial, agricultural, or ecologically sensitive area). Indicate distances to residential/commercial/industrial buildings having basements which are occupied.

North:	Commercial
Northeast:	Commercial
Northwest:	Commercial
South:	Commercial
Southeast:	Commercial
Southwest:	Commercial
West:	Commercial
East:	Commercial

Receptor Survey

List the distance and the direction (downgradient, upgradient, or crossgradient) to these facilites within 0.5 mile radius of the site (If necessary provide details in additional notes).

	Distance [feet]	Direction
Nearest residential site:	600	Downgradient
Nearest commercial/industrial site:	On-Site	N/A
If site is vacant, nearest inhabited building:	N/A	N/A
Nearest ecologically sensitive area (agricultural areas, parks/recreational areas, widlife sanctuaries, wetlands):	1,800	Downgradient
Nearest school, hospital, day care, nursing home etc.:	1,000	Downgradient
Nearest public supply well:	None w/in 1 mile	N/A
Nearest private supply well:	850	Upgradient
Nearest point of exposure (current or potential) for groundwater ingestion:	3,150	Upgradient
Nearest surface water body:	150	Downgradient

Additional Notes

Distances to the nearest residential site, ecologically sensitive area (Fred Fletcher Park), and school (Partnership Elementary) are measured from the source property lines to applicable non-source property lines. No public water supply wells were identified during a receptor survey conducted by H&H. Ten private water supply wells were identified within 1 mile of the site. The closest private well is approximately 850 feet east and upgradient of the site. The Pigeon House Branch of Crabtree Creek is located approximately 150 feet northwest and downgradient of the site. The nearest current point of exposure (POE) for groundwater ingestion is water supply well D040771. Other water supply wells closer to the site are used for irrigation. Groundwater flow direction has not been confirmed; thus, directions are estimated.

Groundwater Use, Surface Water Use, and Ecological Survey **AR Form 4**

DSCA ID No.: 92-0048

Groundwater Use

Is the groundwater used on-site? ○ Yes ◉ No

If yes, specify the use:

- Potable domestic supply ☐
- Non-potable domestic supply ☐
- Public/Municipal supply ☐
- Industrial supply ☐
- Agriculture ☐
- Other (explain in space provided below)

Surface Water Use

Is a surface water body present in 1,000 feet radius of the site? ◉ Yes ○ No

If yes, specify the following:

Type of water body ○ River ○ Wet weather creek ○ Drain ditch ◉ Regular creek ○ Other:

North Carolina classification of water body: C; NSW

Does the water discharges into lake or reservoir? ○ Yes ◉ No

Surface water use:

- Potable domestic supply ☐
- Non-potable domestic supply ☐
- Public/Municipal supply ☐
- Industrial supply ☐
- Agriculture ☐
- Other (explain in space provided below)

Ecological Receptors and Habitats

1. Are there any ecological receptors or habitats present within 500 feet radius from the site? ○ Yes ◉ No
2. Are there visible indications of stressed receptors or habitats on or near the site that may be a result of chemical release? ○ Yes ◉ No

Water Well(s) Information

1. Are there public/municipal water supply wells within 0.5 mile radius from the ○ Yes ◉ No
2. Are there private water supply wells within 1500 feet radius from the site? ◉ Yes ○ No

Additional Notes

H&H identified ten private water supply wells within a 1-mile radius of the site based on visual observations and Wake County GIS. Two of the wells are within 1,500 ft: WSW-1 is 850 ft east and upgradient, WSW-2 is 1,380 ft northeast and upgradient. WSW-1 and WSW-2 are irrigation wells.

Site Stratigraphy and Hydrogeology **AR Form 5**

DSCA ID No.: 92-0048

Stratigraphy of Site

Depth [feet]	Description of Soil
0 to 6-18	Red-brown silty SAND and clayey SAND

Predominent Soil Type:

Depth [feet]	Type of Bedrock and Geological Formation
6-18 to ?	Injected Gneiss - Raleigh Belt (encountered at depths between 6 and 18 ft)

Hydrogeology of the Saturated Impacted Zone

Type of Aquifer? ○ Confined ◉ Unconfined ○ Perched

Underlying predominent aquifer name:	N/A
Aquifer classification (if applicable):	N/A
Range of groundwater level fluctuations [feet bgs]:	N/A
Average depth to water table/static water level:	N/A
Flow direction:	N/A
Hydraulic gradient (i) [--]:	N/A
Hydraulic conductivity (K) [cm/year]:	N/A
Darcy velocity (K x i) [cm/year-calculated]:	
Groundwater velocity (K x i/Porosity) [cm/year]:	N/A
Annual precipitation (average for last 30 years) [inches/year]:	46.4

Additional Notes

According to the Geologic Map of North Carolina dated 1985, the site property lies within the Raleigh Belt of the Piedmont Physiographic Province and overlies injected gneiss.

Average precipitation for Raleigh was obtained from the North Carolina CHRONOS database: http://www.nc-climate.ncsu.edu/cronos

There are no permanent monitoring wells at the site; therefore, groundwater properties have not been determined.

Vadose Zone Characteristics

	Values/Range			Method
Dry bulk density [g/cm^3]		☐ Estimated	☐ Measured	
Total porosity [cm^3/cm^3]:		☐ Estimated	☐ Measured	
Effective porosity [cm^3/cm^3]:		☐ Estimated	☐ Measured	
Water content [cm^3/cm^3]:		☐ Estimated	☐ Measured	
Fractional organic carbon content [g-C/g-soil]:		☐ Estimated	☐ Measured	

Saturated Zone Characteristics

	Values/Range			Method
Dry bulk density [g/cm^3]		☐ Estimated	☐ Measured	
Total porosity [cm^3/cm^3]:		☐ Estimated	☐ Measured	
Effective porosity [cm^3/cm^3]		☐ Estimated	☐ Measured	
Water content [cm^3/cm^3]:		☐ Estimated	☐ Measured	
Fractional organic carbon content [g-C/g-soil]:		☐ Estimated	☐ Measured	

Additional Notes

Non-Aqueous Phase Liquid (NAPL) Information **AR Form 6**

DSCA ID No.: 92-0048

Was NAPL discovered at the site: (●) Yes ( ) No

If Yes, type of NAPL discovered: LNAPL ☐ DNAPL ☑

Summary of LNAPL

Date LNAPL was discovered?	
Type of LNAPL discovered (if known):	
Number of monitoring wells/points currently at site:	
Number of monitoring wells/points containing LNAPL (Note if any, list the monitoring wells/points containing NAPL):	
Has LNAPL removal started?	
If No, cite reason:	
If Yes, specify method of removal (bailer, pump, etc.):	
Removal points (MW #, Boring #, etc.):	
Total number of recovery events to date:	
Total amount of purge-water recovered:	
Total amount of LNAPL recovered:	
Date of latest LNAPL removal report submitted:	

Summary of DNAPL

Date DNAPL was discovered?	2/17/2013, 9/16/2013, 9/18/2013
Type of DNAPL discovered (if known):	PCE
Number of monitoring wells/points currently at site:	0 permanent monitoring wells
Number of monitoring wells/points containing DNAPL (Note if any, list the monitoring wells/points	3 temporary monitoring wells
Has DNAPL removal started?	No
If No, cite reason:	There are no permanent wells at the site.
If Yes, specify method of removal (bailer, pump, etc.):	N/A
Removal points (MW #, Boring #, etc.):	N/A
Total number of recovery events to date:	N/A
Total amount of purge-water recovered:	N/A
Total amount of DNAPL recovered:	N/A
Date of latest DNAPL removal report submitted:	N/A

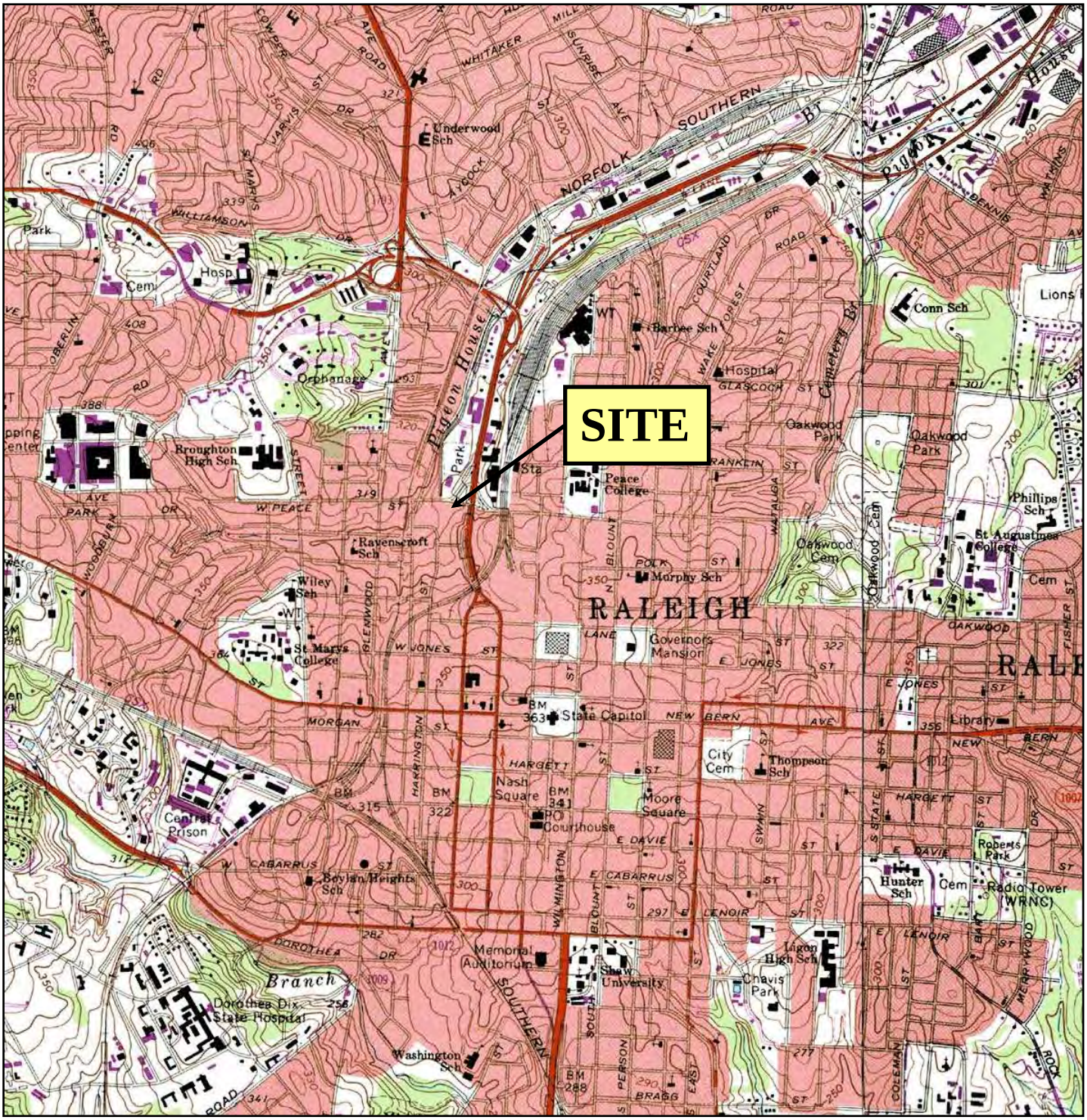
Additonal Notes

During February 2013 assessment activities, PCE was detected at a concentration of 955 mg/L in temporary monitoring well TMW-4, located adjacent to the current waste PCE storage area. NAPL was observed in TMW-4 during sampling, and the detected PCE concentration was indicative of NAPL (i.e., it exceeded the solubility limit of 150 mg/L).

During September 2013 assessment activities, concentrations of PCE in temporary monitoring wells TMW-13 and TMW-21 were 27 mg/L and 36 mg/L, respectively. These concentrations are indicative of NAPL (i.e., they exceed 10% of the solubility limit of PCE). TMW-17 is located outside the site building and just northwest of the current PCE dry-cleaning machine/waste PCE storage area. TMW-21 is located on the adjacent property to the east, approximately 50 ft east of the current PCE dry-cleaning machine/waste PCE storage area.

ATTACHMENT 1

SITE LOCATION MAP



N

APPROXIMATE

0 2000 4000

SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

RALEIGH WEST, NC 1988

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	SITE LOCATION MAP
PROJECT	**ROLLINS ECONOMY CLEANERS** **DSCA ID: 92-0048** 407 W. PEACE STREET RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE:	12/19/13	REVISION NO:	0
JOB NO:	DS0-79	ATTACHMENT NO:	1

ATTACHMENT 5

FACILITY LAYOUT DIAGRAM

WEST PEACE STREET

ASPHALT

SIDEWALK

W

SS

SS

SS

SS

SS

CAR
WASH

ROLLINS
ECONOMY
CLEANERS

SHOE
REPAIR

FURNITURE
SALES

EMPTY STODDARD
SOLVENT AST
(MOUNTED TO CEILING)

RESTROOM

PCE DRY-TO-DRY
(FORMER TRANSFER)
DRY-CLEANING MACHINE

WASTE PCE STORAGE
AREA/FORMER STODDARD
DRY-CLEANING MACHINE

POTENTIAL
UST

ASPHALT

SPOT
CLEANING
STATION

BOILER
ROOM

OFFICE

GAS

GAS

GAS

GAS

ASPHALT/GRAVEL

ASPHALT

VACANT OFFICE

N

APPROXIMATE
0 20 40
SCALE IN FEET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- SOIL SAMPLE LOCATION
- W — WATER LINE
- GAS — NATURAL GAS LINE
- SS — SANITARY SEWER LINE
- STORM SEWER LINE
- STORM SEWER DROP INLET

NOTES:
1. BASE MAP DATA FROM WAKE COUNTY GIS.
2. STORM SEWER LOCATIONS FROM WAKE COUNTY GIS.

TITLE
FACILITY LAYOUT DIAGRAM

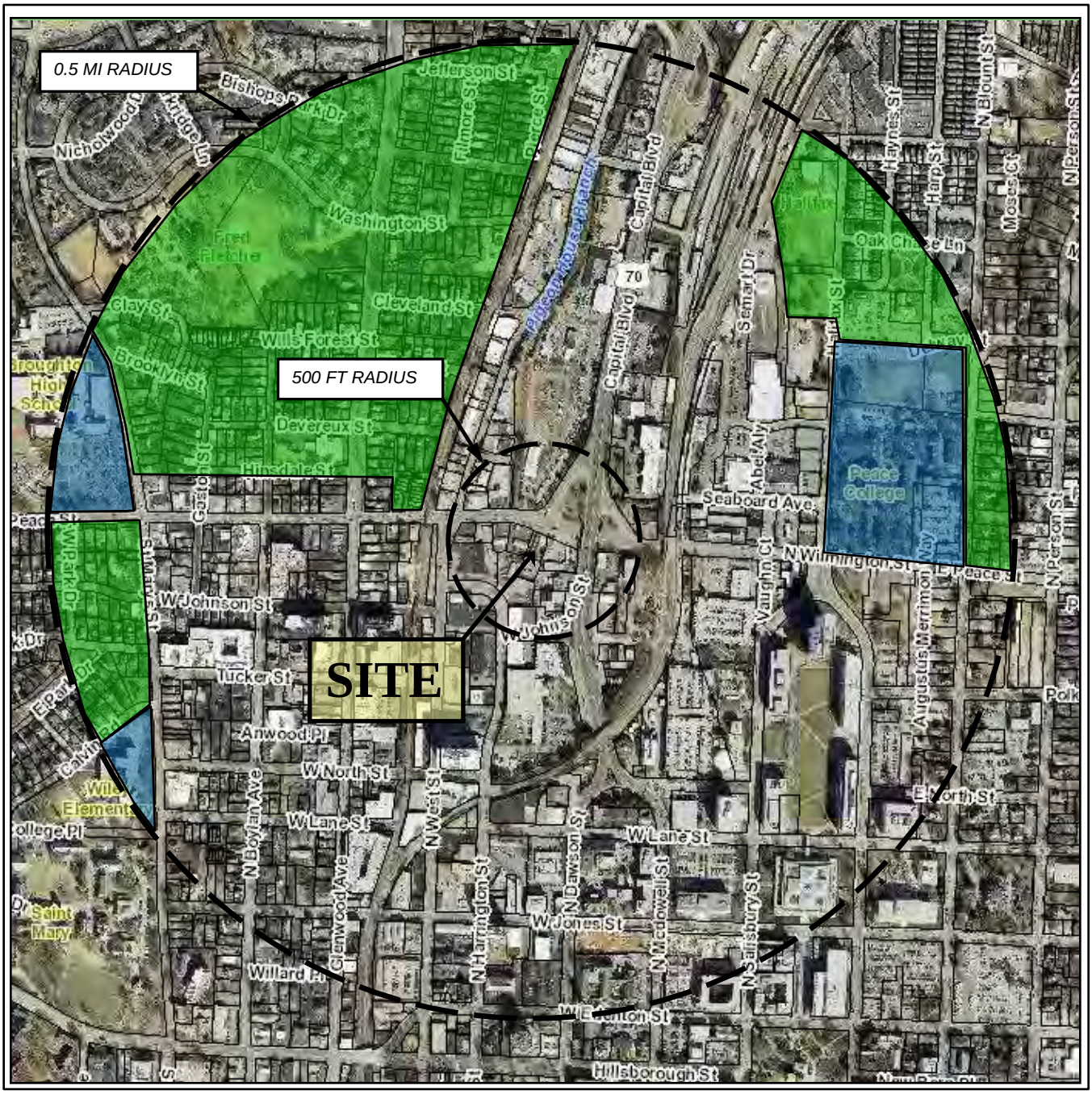
PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 12/18/13	REVISION NO. 0
JOB NO. DS0–79	ATTACHMENT NO. 5

ATTACHMENT 7

VICINITY MAP



N

APPROXIMATE

0 850 1,700

SCALE IN FEET

LEGEND

- SCHOOL OR UNIVERSITY
- PARK OR RESIDENTIAL LAND USE AREA
- AREAS WITH NO COLOR SHADING ARE COMMERCIAL / INDUSTRIAL LAND USE
- CREEK

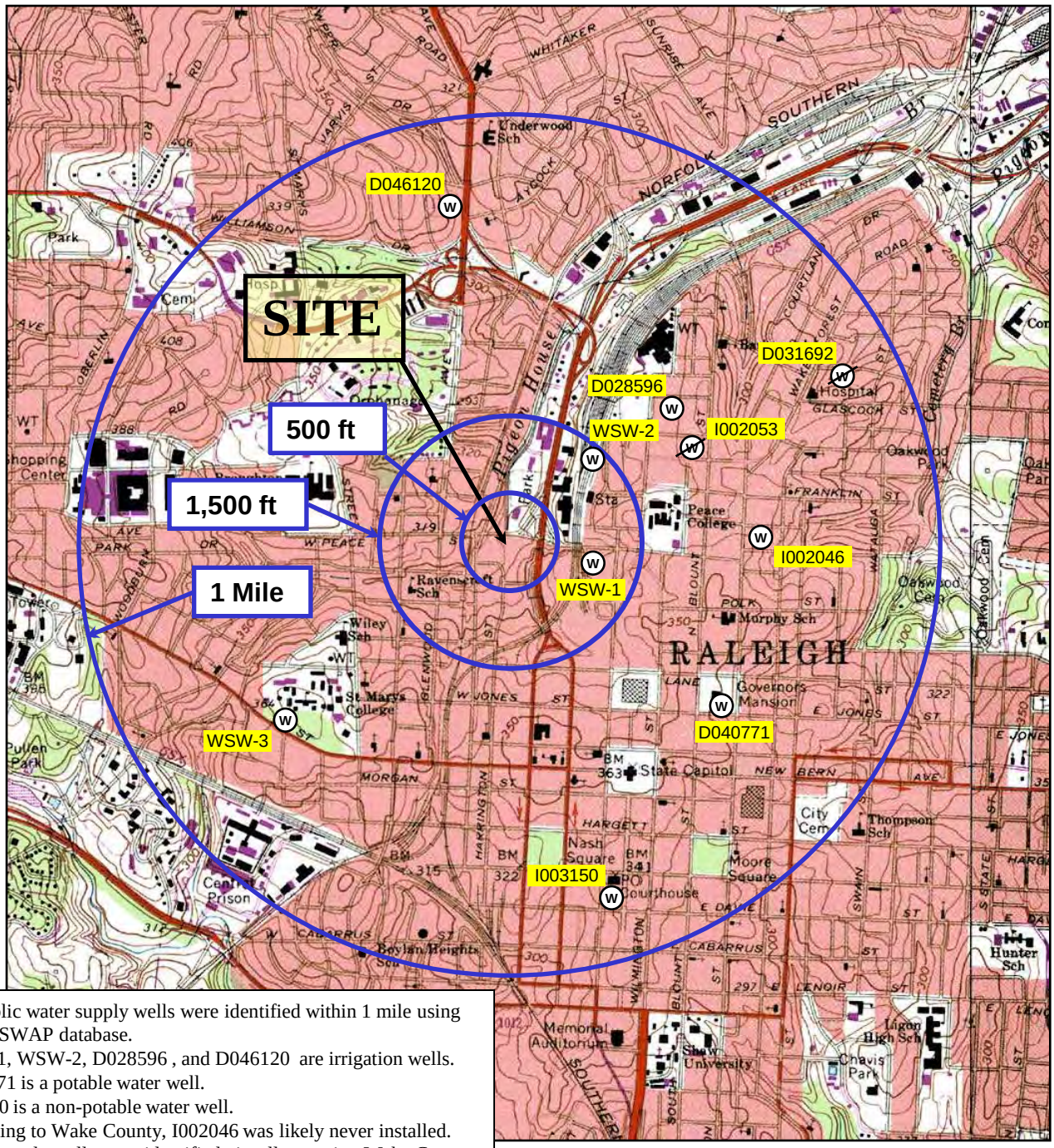
TITLE	**VICINITY MAP**
PROJECT	**ROLLINS ECONOMY CLEANERS** **DSCA ID: 92-0048** 407 W. PEACE STREET RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE:	12-19-13	REVISION NO:	0
JOB NO:	DS0-79	ATTACHMENT:	7

ATTACHMENT 8

WATER WELL LOCATION MAP



No public water supply wells were identified within 1 mile using the NCSWAP database.
WSW-1, WSW-2, D028596 , and D046120 are irrigation wells.
D040771 is a potable water well.
I003150 is a non-potable water well.
According to Wake County, I002046 was likely never installed.
Water supply wells were identified visually or using Wake County GIS.

(W) WATER SUPPLY WELL

(W) ABANDONED WATER SUPPLY WELL

N

APPROXIMATE

0 2000 4000

SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

RALEIGH WEST, NC 1988

QUADRANGLE

7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE: WATER WELL LOCATION MAP

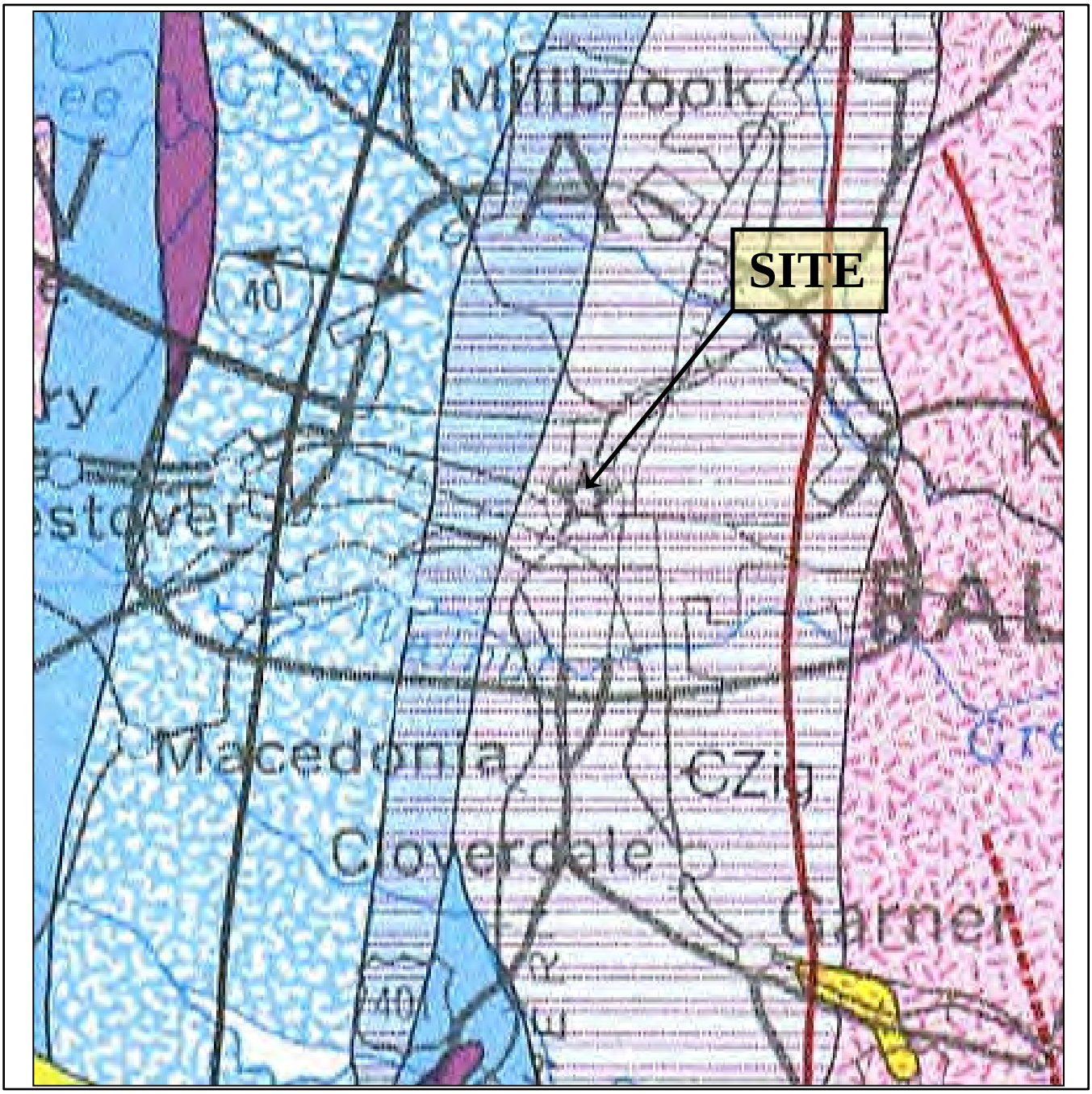
PROJECT: **ROLLINS ECONOMY CLEANERS**
DSCA ID: 92-0048
407 W. PEACE STREET
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE: 12/19/13	REVISION NO: 0
JOB NO: DS0-79	ATTACHMENT NO: 8

ATTACHMENT 9

AREA GEOLOGIC MAP



N

APPROXIMATE

0 2.25 4.5

SCALE IN MILES

RALEIGH BELT

CZig

INJECTED GNEISS: biotite gneiss and schist intruded by numerous sills and dikes of granite, pegmatite, and aplite; minor hornblende gneiss

SOURCE: GEOLOGIC MAP OF NORTH CAROLINA 1985

TITLE	**AREA GEOLOGIC MAP**
PROJECT	**ROLLINS ECONOMY CLEANERS** **DSCA ID: 92-0048** 407 W. PEACE STREET RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE:	12-4-13	REVISION NO:	0
JOB NO:	DS0-79	ATTACHMENT:	9

ATTACHMENT 10

SOIL BORING LOGS

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SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER SB-7

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Asphalt
						Moist, Black, SILTY SAND
2.5		GB	0	42.2		
5.0		GB	0	398		Moist, Gray and Light Brown, CLAYEY SAND
7.5			0	487		
			0	160		Wet, Gray, SILTY SAND with Strong Petroleum Odor
10.0						Bottom of borehole at 10.0 feet.

BORING DIAGRAM

Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 10 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER SB-8

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0					Asphalt	Asphalt
			0	104	Moist, Black to Gray, SILTY SAND	Moist, Black to Gray, SILTY SAND
			0	153		
2.5		GB	0	890		
			0	946	Moist, Gray and Light Brown, CLAYEY SAND	Moist, Gray and Light Brown, CLAYEY SAND
			0	1289		
5.0		GB	0	1508		
			0	1379		
7.5			0	846		
			0	760	Wet, Gray and Light Brown, CLAYEY SAND	Wet, Gray and Light Brown, CLAYEY SAND
			0	94.6		
10.0						Bottom of borehole at 10.0 feet.

BORING DIAGRAM

Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 10 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER SB-9

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Asphalt
			0	62.2		Moist, Black to Gray, SILTY SAND
			0	84.1		
2.5		GB	0	127		
			0	89.9		Moist, Red and Brown, CLAYEY SILT
			0	120		Moist, Gray to Black, SILTY SAND
5.0		GB	0	197		
			0	1088		
			0	1025		Wet, Gray to Black, CLAYEY SAND
10.0						Bottom of borehole at 10.0 feet.

BORING DIAGRAM

Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 10 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER SB-10

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Asphalt
			0	107		Moist, Black to Gray, SILTY SAND
			0	662		
2.5		GB	0	1026		
		GB	0	1624		Moist, Red and Brown, CLAYEY SILT
			0	1232		Moist, Gray to Black, SILTY SAND
5.0			0	750		
			0	749		
7.5			0	421		Wet, Gray to Black, CLAYEY SAND
						Bottom of borehole at 8.0 feet.
10.0						

BORING DIAGRAM: Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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BORING NUMBER SB-11

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Asphalt
			0	2.2		Moist, Black to Gray, SILTY SAND
		GB	0	5.8		
2.5			0	3.3		
			0	12.5		Moist, Red and Brown, CLAYEY SILT
		GB	0	79		Moist, Gray to Black, SILTY SAND
5.0			0	16		
			0	31.3		
7.5			0	720		Wet, Gray to Black, CLAYEY SAND
						Bottom of borehole at 8.0 feet.
10.0						

BORING DIAGRAM: Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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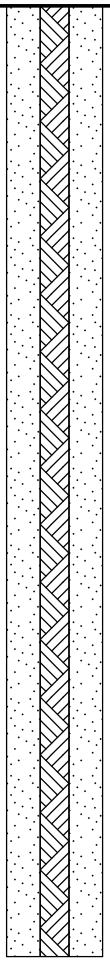
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER SB-12

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Asphalt
			0	14.4		Moist, Gray and Black to Brown and Light Brown, SILTY SAND
			0	19		
2.5		GB	0	1014		
		GB	0	242		
			0	13.2		
5.0			0	14.4		
			0	18.5		
7.5			0	491		Wet, Light Brown to Gray, SILTY SAND
						Bottom of borehole at 8.0 feet.
10.0						

BORING DIAGRAM



Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
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919-847-4241(p) 919-847-4261(f)

BORING NUMBER SB-13

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Asphalt
			0	0.5		Moist, Brown, SILTY SAND
			0	1.5		
2.5		GB	0	5.5		
		GB	0	1.6		
			0	0.4		
5.0			0	0		Wet, Brown, SILTY SAND
			0	0.6		Wet, Gray, CLAYEY SAND
7.5			0	0.5		
						Bottom of borehole at 8.0 feet.
10.0						

BORING DIAGRAM: Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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919-847-4241(p) 919-847-4261(f)

BORING NUMBER SB-14

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Asphalt
			0	0.6		Moist, Gray to Black, SILTY SAND
			0	1.3		
2.5		GB	0	0.4		
						Wet, Brown, SILTY SAND
			0	0		
						Wet, Brown to Gray and Orange, CLAYEY SAND
			0	0		
5.0			0	0		
			0	0		
7.5			0	0		
						Bottom of borehole at 8.0 feet.
10.0						

BORING DIAGRAM: Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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704-586-0007(p) 704-586-0373(f)

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919-847-4241(p) 919-847-4261(f)

BORING NUMBER SB-15/TMW-14

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0					Concrete	Concrete
			0	4.6	Moist, Light Brown to Brown, SILTY SAND	Moist, Light Brown to Brown, SILTY SAND
			0	15		
2.5		GB	0	20.2		
		GB	0	12.6	Moist, Brown to Gray, CLAYEY SAND	Moist, Brown to Gray, CLAYEY SAND
			0	5.1		
5.0			0	2.4		
			0	1.8		
7.5			0	0.4	Wet, Brown to Gray, CLAYEY SAND	Wet, Brown to Gray, CLAYEY SAND
						Bottom of borehole at 8.0 feet.
10.0						

BORING DIAGRAM

1" Dia. Sch. 40 PVC 0.010" slot screen. Well materials removed and borehole abandoned following sample collection.

DEPTH (ft): 0.0, 2.5, 5.0, 7.5, 10.0

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Auger Cuttings
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/17/13
BORING COMPLETED: 9/17/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected from temporary monitoring well

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER SB-16

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Concrete
			0	5		Moist, Red and Brown, SILTY SAND
		GB	0	48		
2.5			0	26.7		
			0	70		
		GB	0	84.4		Moist, Brown to Gray, CLAYEY SAND
5.0			0	64.4		
			0	40.2		Wet, Brown to Gray, CLAYEY SAND
						Bottom of borehole at 7.0 feet.
7.5						
10.0						

BORING DIAGRAM: Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Auger Cuttings
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/17/13
BORING COMPLETED: 9/17/13
TOTAL DEPTH: 7 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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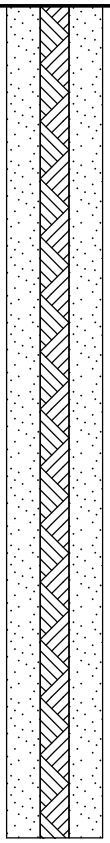
BORING NUMBER SB-17

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Concrete
			0	13.9		Moist, Red and Brown to Black, SILTY SAND
			0	51.9		
2.5		GB	0	132		
		GB	0	68.6		
			0	37.2		
5.0			0	24.1		
			0	10.5		Wet, Brown to LIght Brown, SILTY SAND
						Bottom of borehole at 7.0 feet.
7.5						
10.0						

BORING DIAGRAM



Borehole abandoned following sample collection

DEPTH (ft)

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Auger Cuttings
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/17/13
BORING COMPLETED: 9/17/13
TOTAL DEPTH: 7 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

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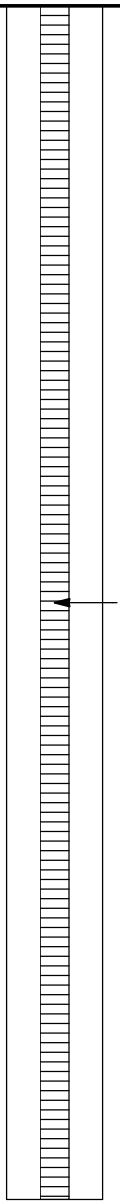
919-847-4241(p) 919-847-4261(f)

BORING NUMBER SB-18/TMW-15

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0					Concrete	Concrete
			0	3.1	Moist, Red and Brown to Black, SILTY SAND	Moist, Red and Brown to Black, SILTY SAND
			0	3.2		
2.5		GB	0	15.8		
			0	7.2		
		GB	0	18.3		
5.0					Moist, Gray, CLAYEY SAND	Moist, Gray, CLAYEY SAND
			0	9.4		
					Wet, Gray, CLAYEY SAND	Wet, Gray, CLAYEY SAND
			0	2.3		
7.5						
10.0						Bottom of borehole at 11.0 feet.

BORING DIAGRAM



DEPTH (ft) 0.0, 2.5, 5.0, 7.5, 10.0

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Auger Cuttings
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/17/13
BORING COMPLETED: 9/17/13
TOTAL DEPTH: 11 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected from temporary monitoring well

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER SB-19

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704-586-0007(p) 704-586-0373(f)

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PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Asphalt
		GB	0	6.3		Moist, Brown to Black, SILTY SAND
			0	2.1		
2.5			0	2.7		
		GB	0	4.9		
			0	4.2		
5.0			0	8		Moist, Gray, CLAYEY SAND
			0	9.4		Wet, Gray, CLAYEY SAND
						Bottom of borehole at 7.0 feet.
7.5						
10.0						

BORING DIAGRAM

Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 7 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER SB-20

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PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Topsoil
			0	35.2		Moist, Brown and Red, SILTY SAND
		GB	0	133		
2.5			0	84		
		GB	0	95.5		
			0	76		Moist, Red and Brown to Gray, CLAYEY SAND
5.0			0	24		Wet, Red and Brown to Gray, CLAYEY SAND
						Refusal at 6.0 feet. Bottom of borehole at 6.0 feet.
7.5						
10.0						

BORING DIAGRAM

Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Auger Cuttings
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 6 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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BORING NUMBER SB-21

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Topsoil		0.0
			0	0		Moist, Gray to Black and Brown, SILTY SAND		
			0	2				
2.5		GB	0	234			Borehole abandoned following sample collection	2.5
		GB	0	1415				
			0	1104		Moist, Red and Brown to Gray, CLAYEY SAND		
5.0			0	434		Wet, Red and Brown to Gray, CLAYEY SAND		5.0
						Refusal at 6.0 feet. Bottom of borehole at 6.0 feet.		
7.5								7.5
10.0								10.0

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Auger Cuttings
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 6 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER SB-22

hart hickman
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PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Concrete
		GB	0	253		Moist, Brown, SILTY SAND
			0	261		
2.5			0	85.1		
		GB	0	152		
			0	98.1		Moist, Gray, CLAYEY SAND
5.0			0	421.4		
			0	1272		Wet, Gray, CLAYEY SAND
7.5			0	393		
						Bottom of borehole at 8.0 feet.
10.0						

BORING DIAGRAM: Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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BORING NUMBER SB-23

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Concrete
			0	950		Moist, Brown to Gray, SILTY SAND
		GB	0	98.4		
2.5			0	42.7		
		GB	0	48.3		
			0	19.1		
5.0			0	58.6		
			0	11.5		Moist, Gray, CLAYEY SAND
7.5			0	7.2		Wet, Gray, CLAYEY SAND
						Bottom of borehole at 8.0 feet.
10.0						

BORING DIAGRAM: Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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BORING NUMBER SB-24

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Asphalt
			0	3.8		Moist, Brown, SILTY SAND with Gravel
			0	5.2		
2.5		GB	0	7.5		Moist, Brown and Red, CLAYEY SAND
			0	9.7		
		GB	0	12.5		
5.0						Moist, Brown, SILTY SAND
			0	11.6		
			0	11		
7.5			0	9.8		Wet, Light Brown, CLAYEY SAND
						Bottom of borehole at 8.0 feet.
10.0						

BORING DIAGRAM

Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/19/13
BORING COMPLETED: 9/19/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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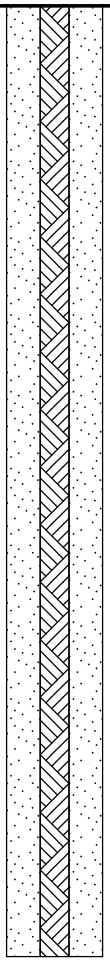
BORING NUMBER SB-25

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Concrete
			0	2.8		Moist, Brown to Gray, SILTY SAND
			0	3.5		
2.5		GB	0	5.4		
			0	6		
		GB	0	6.4		
5.0			0	7.5		
			0	7.7		
7.5			0	5		Wet, Light Brown, CLAYEY SAND
						Bottom of borehole at 8.0 feet.
10.0						

BORING DIAGRAM



Borehole abandoned following sample collection

DEPTH (ft): 0.0, 2.5, 5.0, 7.5, 10.0

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/19/13
BORING COMPLETED: 9/19/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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BORING NUMBER SB-26

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Asphalt
			0	1.6		FILL: Moist, Brown to Light Brown, Silty Sand
			0	2.8		
2.5		GB	0	3.9		
			0	4.8		Concrete
		GB	0	4.9		Moist, Brown and Red, SILTY SAND
5.0			0	4.3		
7.5						Wet, Brown to Gray, CLAYEY SAND
						Bottom of borehole at 8.0 feet.
10.0						

BORING DIAGRAM

Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/19/13
BORING COMPLETED: 9/19/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER SB-27

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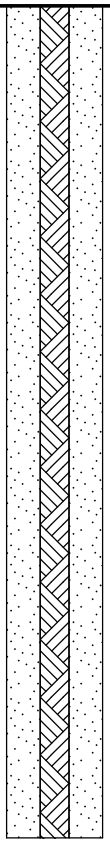
PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0		GB	0	3.5	Concrete	Concrete
			0	0.5	Moist, Red and Brown to Gray and Black, SILTY SAND	Moist, Red and Brown to Gray and Black, SILTY SAND
2.5			0	0.3		
			0	3.8		
		GB	0	4.1		
5.0			0	1.4		
			0	0.5	Wet, Gray, CLAYEY SAND	Wet, Gray, CLAYEY SAND
						Bottom of borehole at 7.0 feet.
7.5						
10.0						

BORING DIAGRAM



Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Auger Cuttings
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/19/13
BORING COMPLETED: 9/19/13
TOTAL DEPTH: 7 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER SB-28

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PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Asphalt
			0	0		Moist, Brown, SILTY SAND
		GB	0	4.1		
2.5			0	1.1		
		GB	0	0.6		
			0	0.5		Moist, Brown to Red, SAND
5.0			0	0.2		Wet, Gray, CLAYEY SAND
						Bottom of borehole at 6.0 feet.
7.5						
10.0						

BORING DIAGRAM: Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Auger Cuttings
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/19/13
BORING COMPLETED: 9/19/13
TOTAL DEPTH: 6 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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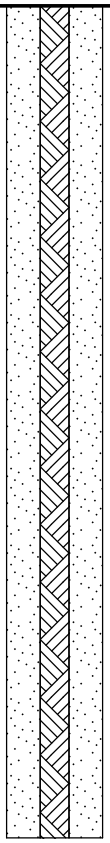
BORING NUMBER SB-29

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0		GB	0	0		Concrete
			0	0		Moist, Red and Brown, SILTY SAND
			0	0		
2.5		GB	0	0		
			0	0		
			0	0		
5.0			0	0		Wet, Brown to Gray, CLAYEY SAND
			0	0		
						Bottom of borehole at 7.0 feet.
7.5						
10.0						

BORING DIAGRAM



Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Auger Cuttings
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/20/13
BORING COMPLETED: 9/20/13
TOTAL DEPTH: 7 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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BORING NUMBER SGMP-1

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Asphalt
			0	0.1		Moist, Red and Brown, SILTY SAND
			0	0.8		
2.5		GB	0	1.1		
			0	1.4		
		GB	0	1.7		Moist, Light Brown, CLAYEY SAND
5.0						Bottom of borehole at 5.0 feet.
7.5						
10.0						

BORING DIAGRAM

Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Auger Cuttings
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/20/13
BORING COMPLETED: 9/20/13
TOTAL DEPTH: 5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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BORING NUMBER SGMP-3

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Asphalt		0.0
			0	3.1		Moist, Red and Brown, SILTY SAND		
		GB	0	3.7				
2.5			0	3.4			Borehole abandoned following sample collection	2.5
		GB	0	3				
			0	1.8				
5.0						Bottom of borehole at 5.0 feet.		5.0
7.5								7.5
10.0								10.0

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Auger Cuttings
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/20/13
BORING COMPLETED: 9/20/13
TOTAL DEPTH: 5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER SGMP-6

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PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						Concrete
			0	15.4		Moist, Brown, SILTY SAND
			0	2.8		
2.5		GB	0	412		
		GB	0	118		
			0	35.5		
5.0						Bottom of borehole at 5.0 feet.
7.5						
10.0						

BORING DIAGRAM

Borehole abandoned following sample collection

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: Auger Cuttings
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/20/13
BORING COMPLETED: 9/20/13
TOTAL DEPTH: 5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

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BORING NUMBER TMW-7

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5								5
10							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	10
						Bottom of borehole at 12.0 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-8

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PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM
0						Groundwater sample only - lithology not recorded	
5							
10							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.
						Bottom of borehole at 12.0 feet.	
15							

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING NUMBER TMW-9

hart hickman
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3334 Hillsborough Street
Raleigh, North Carolina 27607
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PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded	1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	0
5								5
10								10
						Bottom of borehole at 12.0 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-10

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PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded	1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	0
5								5
10								10
						Bottom of borehole at 12.0 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-11

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded	1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	0
5								5
10								10
						Bottom of borehole at 12.0 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-12

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded	1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	0
5								5
10								10
						Bottom of borehole at 12.0 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-13

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5							1" Dia. Sch. 40 PVC 0.010" slot screen. Well materials removed and borehole abandoned following sample collection.	5
10						Bottom of borehole at 10.0 feet.		10
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 10 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected from temporary monitoring well

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-16

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded	1" Dia. Sch. 40 PVC 0.010" slot screen. Well materials removed and borehole abandoned following sample collection.	0
5								5
10						Bottom of borehole at 11.0 feet.		10
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: N/A / Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/17/13
BORING COMPLETED: 9/17/13
TOTAL DEPTH: 11 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected from temporary monitoring well

BORING NUMBER TMW-17

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5							1" Dia. Sch. 40 PVC 0.010" slot screen. Well materials removed and borehole abandoned following sample collection.	5
10						Bottom of borehole at 11.0 feet.		10
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/16/13
BORING COMPLETED: 9/16/13
TOTAL DEPTH: 11 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected from temporary monitoring well

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-18

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded	1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	0
5								5
10								10
						Bottom of borehole at 12.0 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/17/13
BORING COMPLETED: 9/17/13
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-19

hart hickman
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3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM
0						Groundwater sample only - lithology not recorded	
5							
10							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.
						Bottom of borehole at 12.0 feet.	
15							

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/17/13
BORING COMPLETED: 9/17/13
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING NUMBER TMW-20

hart hickman
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704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded	1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	0
5								5
10								10
						Bottom of borehole at 12.0 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/17/13
BORING COMPLETED: 9/17/13
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-21

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5								5
10							1" Dia. Sch. 40 PVC 0.010" slot screen. Well materials removed and borehole abandoned following sample collection.	10
15						Bottom of borehole at 14.0 feet.		15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 14 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected from temporary monitoring well

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-22

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5								5
10							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	10
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-23

hart hickman
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3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded	1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	0
5								5
10						Bottom of borehole at 13.0 feet.		10
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 13 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

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704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER TMW-24

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5								5
10								10
15							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	15
						Bottom of borehole at 18.0 feet.		

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 18 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER TMW-25

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5								5
10							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	10
						Bottom of borehole at 14.0 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 14 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-26

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5								5
10							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	10
15						Bottom of borehole at 15.0 feet.		15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-27

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM
0						Groundwater sample only - lithology not recorded	
15						Bottom of borehole at 15.0 feet.	1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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SMARTER ENVIRONMENTAL SOLUTIONS

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704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER TMW-28

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5								5
10							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	10
						Bottom of borehole at 13.0 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/18/13
BORING COMPLETED: 9/18/13
TOTAL DEPTH: 13 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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SMARTER ENVIRONMENTAL SOLUTIONS

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER TMW-29

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5								5
10							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	10
						Bottom of borehole at 14.0 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/19/13
BORING COMPLETED: 9/19/13
TOTAL DEPTH: 14 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

BORING NUMBER TMW-30

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5								5
10							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	10
						Bottom of borehole at 13.5 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/19/13
BORING COMPLETED: 9/19/13
TOTAL DEPTH: 13.5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER TMW-31

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5								5
10							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	10
						Bottom of borehole at 14.0 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/19/13
BORING COMPLETED: 9/19/13
TOTAL DEPTH: 14 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

hart hickman
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704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER TMW-32

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5								5
10							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	10
						Bottom of borehole at 14.0 feet.		
15								15

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/19/13
BORING COMPLETED: 9/19/13
TOTAL DEPTH: 14 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

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SMARTER ENVIRONMENTAL SOLUTIONS

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704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER TMW-33

PROJECT: Rollins Economy Cleaners
JOB NUMBER: DS0-79
LOCATION: Raleigh, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Groundwater sample only - lithology not recorded		0
5								5
10								10
15							1" Dia. steel screen-point sampler. Borehole abandoned following sample collection.	15
						Bottom of borehole at 17.0 feet.		

DRILLING CONTRACTOR: Quantex
DRILL RIG/ METHOD: Geoprobe / DPT/Hand Auger
SAMPLING METHOD: N/A
LOGGED BY: MJG
DRAWN BY: TAK

BORING STARTED: 9/19/13
BORING COMPLETED: 9/19/13
TOTAL DEPTH: 17 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

Groundwater sample collected using Geoprobe screen-point sampler

BORING LOG - HART HICKMAN.GDT - 12/4/13 14:06 - S:\AAA-MASTER GINT PROJECTS\DS0-79_ROLLINS ECONOMY CLEANERS.GPJ

ATTACHMENT 11

SOIL SAMPLE LOCATION MAP

WEST PEACE STREET

SB-1

SB-29

SHOE REPAIR

FURNITURE SALES

ROLLINS ECONOMY CLEANERS

CAR WASH

SGMP-6

SB-27

SB-18

SB-23

SB-7

SB-28

SB-8

SB-22

SB-9

SB-17

SB-5

SB-2

SB-16

SB-4

SB-10

SB-21

SB-25

SB-6

SB-11

SB-15

SB-12

SB-3

SB-14

SB-20

SB-13

SGMP-1

SB-24

SB-19

OFFICE

SB-26

SGMP-3

VACANT OFFICE

N

APPROXIMATE

0 20 40

SCALE IN FEET

LEGEND

SOURCE PROPERTY BOUNDARY

PROPERTY PARCEL

SOIL SAMPLE LOCATION

TITLE

SOIL SAMPLE LOCATION MAP

PROJECT

ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 12/18/13 | REVISION NO. 0

JOB NO. DS0–79 | ATTACHMENT NO. 11

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ATTACHMENT 13

SOIL ISOCONCENTRATION MAPS

WEST PEACE STREET

SB-1
<0.00185 (1-2')

SB-29
0.0156 (0-1')

SHOE
REPAIR

FURNITURE
SALES

ROLLINS
ECONOMY
CLEANERS

CAR
WASH

SGMP-6
0.00333 (2-3')

SB-27
0.20 (0-1')

0.023

0.23

2.3

23

230

SB-18
250 (2-3')

SB-23
<0.24 (1-2')

SB-28
6.2 (1-2')

SB-7
<0.012 (2-3')

SB-8
<0.242 (2-3')

SB-22
0.30 (0-1')

SB-9
0.24J (2-3')

SB-17
220 (2-3')

SB-5
31.8 (1-2')

SB-2
<0.00184 (1-2')

SB-4
40.4 (1-2')

SB-16
0.40 (1-2')

SB-10
<0.49 (2-3')

SB-6
15.0 (1-2')

SB-21
0.44J (2-3')

SB-25
0.066 (2-3')

SB-11
0.025 (1-2')

SB-15
3.6 (2-3')

SB-12
<0.013 (2-3')

SB-3
0.828 (1-2')

SB-14
3.4 (2-3')

SB-20
310 (1-2')

SB-13
0.090 (2-3')

SGMP-1
0.00966 (2-3')

SB-24
<0.013 (2-3')

SB-19
<0.22 (0-1')

OFFICE

SB-26
0.006J (2-3')

SGMP-3
0.00509 (1-2')

VACANT OFFICE

N

APPROXIMATE
0 20 40
SCALE IN FEET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- SOIL SAMPLE LOCATION
- 0.006J (2-3') PCE CONCENTRATION (mg/kg) AND SAMPLE DEPTH
- 0.23 PCE ISOCONTOUR LINE IN mg/kg (DASHED WHERE INFERRED)

NOTES:
1. SOIL SAMPLES FROM SOIL BORINGS SB-1 THROUGH SB-6 COLLECTED ON 02/07/13.
2. SOIL SAMPLES FROM SOIL BORINGS SB-7 THROUGH SB-29, SGMP-1, SGMP-3, AND SGMP-6 COLLECTED ON 09/16/13 TO 09/20/13.
3. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

TITLE
SURFICIAL SOIL (<3 FT)
PCE ISOCONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/10/13 | REVISION NO. 0
JOB NO. DS0-79 | ATTACHMENT NO. 13A

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WEST PEACE STREET

SB-1
<0.00201 (6-7')

SB-29
0.139 (3-4')

SHOE
REPAIR

FURNITURE
SALES

ROLLINS
ECONOMY
CLEANERS

CAR
WASH

SGMP-6
0.0129 (3-4')

SB-27
16 (4-5')

0.023

0.23

2.3

SB-18
1.2 (4-5')

SB-23
<0.53 (3-4')

SB-28
0.41 (3-4')

SB-7
<0.013 (5-6')

SB-8
<0.49 (5-6')

SB-22
<0.25 (3-4')

SB-9
<0.23 (5-6')

SB-17
74 (3-4')

SB-5
1.82 (5-6')

SB-2
<0.00204 (6-7')

SB-16
0.64 (4-5')

SB-4
5,650 (5-6')

SB-10
<0.26 (3-4')

SB-6
0.105 (5-6')

SB-21
0.95J (3-4')

SB-25
0.15 (4-5')

SB-11
<0.013 (4-5')

SB-15
5.3 (3-4')

SB-12
<0.013 (3-4')

SB-3
0.00337 (6-7')

SB-14
NS

SB-20
2.7 (3-4')

SB-13
0.26 (3-4')

0.23

SGMP-1
0.846 (4-5')

SB-24
0.050 (4-5')

SB-19
0.005J (3-4')

0.023

OFFICE

SB-26
<0.011 (4-5')

SGMP-3
0.0252 (3-4')

VACANT OFFICE

N

APPROXIMATE
0 20 40
SCALE IN FEET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- SOIL SAMPLE LOCATION
- 0.0252 (3-4') PCE CONCENTRATION (mg/kg) AND SAMPLE DEPTH
- 0.23 PCE ISOCONTOUR LINE IN mg/kg (DASHED WHERE INFERRED)

NOTES:
1. SOIL SAMPLES FROM SOIL BORINGS SB-1 THROUGH SB-6 COLLECTED ON 02/07/13.
2. SOIL SAMPLES FROM SOIL BORINGS SB-7 THROUGH SB-29, SGMP-1, SGMP-3, AND SGMP-6 COLLECTED ON 09/16/13 TO 09/20/13.
3. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

TITLE
SUBSURFACE SOIL (>3 FT)
PCE ISOCONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/10/13 | REVISION NO. 0
JOB NO. DS0-79 | ATTACHMENT NO. 13B

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WEST PEACE STREET

SB-1
<0.00185 (1-2')

SB-29
<0.00206 (0-1')

ROLLINS
ECONOMY
CLEANERS

SHOE
REPAIR

FURNITURE
SALES

CAR
WASH

SGMP-6
0.00954 (2-3')

SB-27
0.013 (0-1')

0.067

SB-18
0.21 (2-3')

SB-23
<0.24 (1-2')

SB-28
0.16J (1-2')

0.67

SB-7
<0.012 (2-3')

6.7

SB-8
<0.242 (2-3')

SB-22
0.11 (0-1')

SB-9
<0.50 (2-3')

SB-17
13 (2-3')

SB-5
5.57 (1-2')

SB-2
<0.00184 (1-2')

SB-16
0.073 (1-2')

SB-4
0.833 (1-2')

SB-10
<0.49 (2-3')

SB-6
3.73 (1-2')

SB-21
<0.51 (2-3')

SB-25
0.014 (2-3')

SB-11
<0.01 (1-2')

SB-15
0.075J (2-3')

SB-12
<0.013 (2-3')

SB-3
0.152 (1-2')

SB-14
<0.12 (2-3')

0.67

SB-20
1.4 (1-2')

SB-13
<0.011 (2-3')

SGMP-1
<0.00185 (2-3')

SB-24
<0.013 (2-3')

SB-19
<0.22 (0-1')

OFFICE

SB-26
<0.011 (2-3')

SGMP-3
<0.00160 (1-2')

VACANT OFFICE

N

APPROXIMATE
0 20 40
SCALE IN FEET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- SOIL SAMPLE LOCATION
- 0.152 (1-2') TCE CONCENTRATION (mg/kg) AND SAMPLE DEPTH
- 0.67 TCE ISOCONTOUR LINE IN mg/kg (DASHED WHERE INFERRED)

NOTES:
1. SOIL SAMPLES FROM SOIL BORINGS SB-1 THROUGH SB-6 COLLECTED ON 02/07/13.
2. SOIL SAMPLES FROM SOIL BORINGS SB-7 THROUGH SB-29, SGMP-1, SGMP-3, AND SGMP-6 COLLECTED ON 09/16/13 TO 09/20/13.
3. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

TITLE
SURFICIAL SOIL (<3 FT)
TCE ISOCONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/10/13 | REVISION NO. 0
JOB NO. DS0-79 | ATTACHMENT NO. 13C

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WEST PEACE STREET

SB-1
<0.00201 (6-7')

SB-29
<0.00225 (3-4')

ROLLINS
ECONOMY
CLEANERS

SHOE
REPAIR

FURNITURE
SALES

CAR
WASH

SGMP-6
0.00788 (3-4')

SB-27
0.84 (4-5')

SB-18
0.13 (4-5')

SB-23
<0.53 (3-4')

SB-7
<0.013 (5-6')

SB-8
<0.49 (5-6')

SB-22
<0.25 (3-4')

SB-9
<0.23 (5-6')

SB-17
4.1 (3-4')

SB-5
23.4 (5-6')

SB-2
<0.00204 (6-7')

SB-4
<123 (5-6')

SB-16
0.26J (4-5')

SB-10
<0.26 (3-4')

SB-6
1.04 (5-6')

SB-11
<0.013 (4-5')

SB-15
0.060J (3-4')

SB-12
<0.013 (3-4')

SB-3
0.00659 (6-7')

SB-14
NS

SB-13
<0.12 (3-4')

SB-20
<0.23 (3-4')

SB-28
0.021 (3-4')

SB-21
0.73J (3-4')

SB-25
0.021 (4-5')

0.067

0.67

0.067

0.67

6.7

SGMP-1
0.0102 (4-5')

SB-24
0.009J (4-5')

SB-19
0.039 (3-4')

OFFICE

SB-26
<0.011 (4-5')

SGMP-3
<0.00159 (3-4')

VACANT OFFICE

N

APPROXIMATE
0 20 40
SCALE IN FEET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- SOIL SAMPLE LOCATION
- 0.039 (3-4') TCE CONCENTRATION (mg/kg) AND SAMPLE DEPTH
- 0.67 TCE ISOCONTOUR LINE IN mg/kg (DASHED WHERE INFERRED)

NOTES:
1. SOIL SAMPLES FROM SOIL BORINGS SB-1 THROUGH SB-6 COLLECTED ON 02/07/13.
2. SOIL SAMPLES FROM SOIL BORINGS SB-7 THROUGH SB-29, SGMP-1, SGMP-3, AND SGMP-6 COLLECTED ON 09/16/13 TO 09/20/13.
3. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

TITLE
SUBSURFACE SOIL (>3 FT)
TCE ISOCONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/10/13 | REVISION NO. 0
JOB NO. DS0–79 | ATTACHMENT NO. 13D

WEST PEACE STREET

SB-1
<0.00185 (1-2')

SB-29
<0.00206 (0-1')

SHOE
REPAIR

FURNITURE
SALES

ROLLINS
ECONOMY
CLEANERS

CAR
WASH

SGMP-6
0.0287 (2-3')

SB-27
0.011J (0-1')

SB-18
0.31 (2-3')

SB-23
5.1 (1-2')

1.1

SB-7
<0.012 (2-3')

SB-8
0.34 (2-3')

SB-22
0.15 (0-1')

SB-9
0.42 (2-3')

SB-28
0.44 (1-2')

SB-17
4.6 (2-3')

SB-5
2.19 (1-2')

1.1

SB-2
0.0334 (1-2')

SB-4
0.673 (1-2')

SB-16
0.083 (1-2')

SB-10
<0.49 (2-3')

SB-6
0.143 (1-2')

SB-21
4.9 (2-3')

SB-25
0.097 (2-3')

SB-11
0.013 (1-2')

SB-15
<0.12 (2-3')

SB-12
<0.013 (2-3')

SB-3
0.0881 (1-2')

SB-14
<0.12 (2-3')

SB-20
0.52 (1-2')

SB-13
<0.011 (2-3')

SGMP-1
<0.00185 (2-3')

SB-24
<0.013 (2-3')

SB-19
0.27 (0-1')

OFFICE

SB-26
<0.011 (2-3')

SGMP-3
<0.00160 (1-2')

VACANT OFFICE

N

APPROXIMATE
0 20 40
SCALE IN FEET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- SOIL SAMPLE LOCATION
- 0.0881 (1-2') CIS-1,2-DICHLOROETHYLENE CONCENTRATION (mg/kg) AND SAMPLE DEPTH
- 1.1 CIS-1,2-DICHLOROETHYLENE ISOCONTOUR LINE IN mg/kg (DASHED WHERE INFERRED)

NOTES:
1. SOIL SAMPLES FROM SOIL BORINGS SB-1 THROUGH SB-6 COLLECTED ON 02/07/13.
2. SOIL SAMPLES FROM SOIL BORINGS SB-7 THROUGH SB-29, SGMP-1, SGMP-3, AND SGMP-6 COLLECTED ON 09/16/13 TO 09/20/13.
4. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

TITLE
SURFICIAL SOIL (<3 FT)
CIS-1,2-DICHLOROETHYLENE
ISOCONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/10/13 | REVISION NO. 0
JOB NO. DS0-79 | ATTACHMENT NO. 13E

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WEST PEACE STREET

SB-1
<0.00201 (6-7')

SB-29
<0.00225 (3-4')

SHOE
REPAIR

FURNITURE
SALES

ROLLINS
ECONOMY
CLEANERS

CAR
WASH

SGMP-6
0.0101 (3-4')

SB-27
0.73 (4-5')

SB-18
0.25 (4-5')

SB-23
0.71J (3-4')

SB-28
0.024 (3-4')

SB-7
<0.013 (5-6')

SB-8
<0.49 (5-6')

SB-22
2.1 (3-4')

SB-9
<0.23 (5-6')

1.1

SB-17
1.5 (3-4')

SB-5
28.3 (5-6')

SB-2
<0.00204 (6-7')

SB-16
0.35J (4-5')

SB-4
9.82 (5-6')

1.1

SB-25
0.042 (4-5')

SB-10
<0.26 (3-4')

SB-6
0.123 (5-6')

SB-21
10 (3-4')

SB-11
0.009J (4-5')

SB-15
<0.13 (3-4')

SB-12
<0.013 (3-4')

SB-3
0.0335 (6-7')

SB-14
NS

SB-20
0.16J (3-4')

SB-13
0.066J (3-4')

SGMP-1
<0.00159 (4-5')

SB-24
<0.013 (4-5')

SB-19
0.039 (3-4')

OFFICE

SB-26
<0.011 (4-5')

SGMP-3
<0.00159 (3-4')

VACANT OFFICE

N

APPROXIMATE
0 20 40
SCALE IN FEET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- SOIL SAMPLE LOCATION
- 0.123 (5-6') CIS-1,2-DICHLOROETHYLENE CONCENTRATION (mg/kg) AND SAMPLE DEPTH
- 1.1 CIS-1,2-DICHLOROETHYLENE ISOCONTOUR LINE IN mg/kg (DASHED WHERE INFERRED)

NOTES:
1. SOIL SAMPLES FROM SOIL BORINGS SB-1 THROUGH SB-6 COLLECTED ON 02/07/13.
2. SOIL SAMPLES FROM SOIL BORINGS SB-7 THROUGH SB-29, SGMP-1, SGMP-3, AND SGMP-6 COLLECTED ON 09/16/13 TO 09/20/13.
4. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

TITLE
SUBSURFACE SOIL (>3 FT)
CIS-1,2-DICHLOROETHYLENE
ISOCONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/10/13 | REVISION NO. 0
JOB NO. DS0-79 | ATTACHMENT NO. 13F

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WEST PEACE STREET

SB-1
<0.00185 (1-2')

SB-29
<0.00206 (0-1')

ROLLINS
ECONOMY
CLEANERS

SHOE
REPAIR

FURNITURE
SALES

CAR
WASH

SB-27
<0.012 (0-1')

SGMP-6
0.119 (2-3')

0.079

0.0079

0.00079

SB-18
<0.011 (2-3')

SB-23
0.12J (1-2')

SB-28
<0.25 (1-2')

SB-7
0.009J (2-3')

SB-8
0.53 (2-3')

SB-22
0.058 (0-1')

SB-9
1.1 (2-3')

SB-17
<0.52 (2-3')

SB-5
<0.00229 (1-2')

SB-2
0.150 (1-2')

SB-16
<0.013 (1-2')

SB-4
<0.00190 (1-2')

SB-10
<0.49 (2-3')

SB-6
<0.00173 (1-2')

SB-21
<0.51 (2-3')

SB-25
<0.011 (2-3')

SB-11
0.005J (1-2')

SB-15
<0.12 (2-3')

SB-12
<0.013 (2-3')

SB-3
<0.00199 (1-2')

SB-14
<0.12 (2-3')

SB-20
<0.46 (1-2')

SB-13
<0.011 (2-3')

SGMP-1
<0.00185 (2-3')

SB-24
<0.013 (2-3')

SB-19
<0.22 (0-1')

OFFICE

SB-26
<0.011 (2-3')

SGMP-3
<0.00160 (1-2')

VACANT OFFICE

N

APPROXIMATE
0 20 40
SCALE IN FEET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- SOIL SAMPLE LOCATION
- 0.150 (1-2') VINYL CHLORIDE CONCENTRATION (mg/kg) AND SAMPLE DEPTH
- 0.079 VINYL CHLORIDE ISOCONTOUR LINE IN mg/kg (DASHED WHERE INFERRED)

NOTES:
1. SOIL SAMPLES FROM SOIL BORINGS SB-1 THROUGH SB-6 COLLECTED ON 02/07/13.
2. SOIL SAMPLES FROM SOIL BORINGS SB-7 THROUGH SB-29, SGMP-1, SGMP-3, AND SGMP-6 COLLECTED ON 09/16/13 TO 09/20/13.
3. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

TITLE
SURFICIAL SOIL (<3 FT)
VINYL CHLORIDE ISOCONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/10/13 | REVISION NO. 0
JOB NO. DS0-79 | ATTACHMENT NO. 13G

WEST PEACE STREET

SB-1
<0.00201 (6-7')

SB-29
<0.00225 (3-4')

SHOE
REPAIR

FURNITURE
SALES

ROLLINS
ECONOMY
CLEANERS

CAR
WASH

SGMP-6
0.0427 (3-4')

SB-27
<0.25 (4-5')

0.0079

SB-18
0.036 (4-5')

SB-23
<0.53 (3-4')

SB-28
<0.013 (3-4')

SB-7
<0.013 (5-6')

SB-8
<0.49 (5-6')

0.079

SB-22
0.38 (3-4')

SB-9
<0.23 (5-6')

SB-17
<0.24 (3-4')

0.079

SB-5
0.398 (5-6')

SB-2
0.0196 (6-7')

SB-4
0.00938 (5-6')

SB-16
<0.52 (4-5')

SB-10
<0.26 (3-4')

SB-6
0.228 (5-6')

SB-21
<1.2 (3-4')

SB-25
<0.012 (4-5')

SB-11
0.011J (4-5')

SB-15
<0.13 (3-4')

0.0079

SB-12
<0.013 (3-4')

SB-3
<0.00196 (6-7')

SB-14
NS

SB-20
<0.23 (3-4')

SB-13
<0.12 (3-4')

SGMP-1
<0.00159 (4-5')

SB-24
<0.013 (4-5')

SB-19
0.005J (3-4')

OFFICE

SB-26
<0.011 (4-5')

SGMP-3
<0.00159 (3-4')

VACANT OFFICE

N

APPROXIMATE
0 20 40
SCALE IN FEET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- SOIL SAMPLE LOCATION
- 0.0427 (3-4') VINYL CHLORIDE CONCENTRATION (mg/kg) AND SAMPLE DEPTH
- 0.079 VINYL CHLORIDE ISOCONTOUR LINE IN mg/kg (DASHED WHERE INFERRED)

NOTES:
1. SOIL SAMPLES FROM SOIL BORINGS SB-1 THROUGH SB-6 COLLECTED ON 02/07/13.
2. SOIL SAMPLES FROM SOIL BORINGS SB-7 THROUGH SB-29, SGMP-1, SGMP-3, AND SGMP-6 COLLECTED ON 09/16/13 TO 09/20/13.
3. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

TITLE
SUBSURFACE SOIL (>3 FT)
VINYL CHLORIDE ISOCONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/10/13 | REVISION NO. 0
JOB NO. DS0-79 | ATTACHMENT NO. 13H

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WEST PEACE STREET

SB-1

SB-29

SHOE REPAIR

FURNITURE SALES

ROLLINS ECONOMY CLEANERS

CAR WASH

SGMP-6

SB-27

SB-5 (02/07/13)		
DEPTH	1-2'	5-6'
NAPHTHALENE	<0.00572	**2.09**

SB-2 (02/07/13)		
DEPTH	1-2'	6-7'
NAPHTHALENE	**30.0**	**7.87**
CUMENE	**36.1**	**10.8**
1,2,4-TMB	**220**	1.83

SB-18

SB-23

SB-7

SB-8

SB-22

SB-9

SB-17

SB-5

SB-2

SB-16

SB-4

SB-10

SB-6

SB-11

SB-15

SB-12

SB-3

SB-14

SB-20

SB-13

SB-19

SB-26

SB-28

SB-21

SB-25

SB-10 (09/16/13)		
DEPTH	2-3'	3-4'
NAPHTHALENE	**6.0**	1.0J

SB-21 (09/18/13)		
DEPTH	2-3'	3-4'
NAPHTHALENE	<2.6	**4.2J**

SB-4 (02/07/13)		
DEPTH	1-2'	5-6'
NAPHTHALENE	<0.00475	**3.35**

SGMP-1

SB-24

OFFICE

SGMP-3

VACANT OFFICE

N

APPROXIMATE

0 20 40

SCALE IN FEET

LEGEND

SOURCE PROPERTY BOUNDARY

PROPERTY PARCEL

SOIL SAMPLE LOCATION

NOTES:

1. SOIL SAMPLES FROM SOIL BORINGS SB-1 THROUGH SB-6 COLLECTED ON 02/07/13.
2. SOIL SAMPLES FROM SOIL BORINGS SB-7 THROUGH SB-29, SGMP-1, SGMP-3, AND SGMP-6 COLLECTED ON 09/16/13 TO 09/20/13.
3. **BOLD** INDICATES EXCEEDANCE OF TIER 1 RBSL .
4. ONLY THOSE PETROLEUM COMPOUNDS ABOVE STANDARDS ARE SHOWN.
5. 1,2,4-TMB = 1,2,4-TRIMETHYLBENZENE
6. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

SAMPLE ID (SAMPLE DATE)

SAMPLE DEPTH

SB-10 (09/16/13)		
DEPTH	2-3'	3-4'
NAPHTHALENE	**6.0**	1.0J

CONSTITUENT

CONCENTRATION (mg/kg)

TITLE **SOIL PETROLEUM COMPOUNDS CONTAMINANT CONCENTRATION MAP**

PROJECT **ROLLINS ECONOMY CLEANERS**
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 12/02/13 | REVISION NO. 0

JOB NO. DS0-79 | ATTACHMENT NO. 13I

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WEST PEACE STREET

SB-1
ND (1-2')

SB-29
ND (0-1')

ROLLINS
ECONOMY
CLEANERS

SHOE
REPAIR

FURNITURE
SALES

CAR
WASH

SGMP-6
0.04409 (2-3')

SB-27
ND (0-1')

SB-18
ND (2-3')

SB-23
29.038 (1-2')

SB-7
0.166 (2-3')

SB-8
10.30 (2-3')

SB-22
0.425 (0-1')

SB-9
14.05 (2-3')

SB-17
ND (2-3')

SB-5
ND (1-2')

SB-2
537.35 (1-2')

SB-16
ND (1-2')

SB-4
0.0161 (1-2')

SB-10
88.1 (2-3')

SB-6
ND (1-2')

SB-11
ND (1-2')

SB-15
ND (2-3')

SB-12
0.074 (2-3')

SB-3
0.0412 (1-2')

SB-14
ND (2-3')

SB-13
0.074 (2-3')

SB-20
ND (1-2')

SB-28
ND (1-2')

SB-21
2.48 (2-3')

SB-25
ND (2-3')

SB-19
0.286 (0-1')

SGMP-1
ND (2-3')

SB-24
ND (2-3')

OFFICE

SB-26
ND (2-3')

SGMP-3
ND (1-2')

VACANT OFFICE

APPROXIMATE
0 20 40
SCALE IN FEET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- SOIL SAMPLE LOCATION
- 0.074 (2-3') TOTAL PETROLEUM CONCENTRATION (mg/kg) AND SAMPLE DEPTH
- 10 TOTAL PETROLEUM ISOCONTOUR LINE IN mg/kg (DASHED WHERE INFERRED)

NOTES:
1. SOIL SAMPLES FROM SOIL BORINGS SB-1 THROUGH SB-6 COLLECTED ON 02/07/13.
2. SOIL SAMPLES FROM SOIL BORINGS SB-7 THROUGH SB-29, SGMP-1, SGMP-3, AND SGMP-6 COLLECTED ON 09/16/13 TO 09/20/13.
3. ND = NO PETROLEUM COMPOUNDS DETECTED AT CONCENTRATIONS ABOVE LABORATORY REPORTING LIMITS.
6. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

TITLE
SURFICIAL SOIL (<3 FT) PETROLEUM COMPOUNDS ISOCONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 12/02/13	REVISION NO. 0
JOB NO. DS0-79	ATTACHMENT NO. 13J

WEST PEACE STREET

SB-1
ND (6-7')

SB-29
ND (3-4')

SHOE
REPAIR

FURNITURE
SALES

ROLLINS
ECONOMY
CLEANERS

CAR
WASH

SGMP-6
0.08046 (3-4')

SB-27
ND (4-5')

SB-18
ND (4-5')

SB-23
0.74 (3-4')

SB-7
1.2 (5-6')

SB-8
58.91 (5-6')

SB-22
4.63 (3-4')

SB-9
6.88 (5-6')

SB-17
ND (3-4')

SB-5
19.10119 (5-6')

SB-2
80.0263 (6-7')

SB-16
1.81 (4-5')

SB-4
9.860 (5-6')

SB-10
3.69 (3-4')

SB-6
ND (5-6')

SB-11
0.011 (4-5')

SB-15
ND (3-4')

SB-12
ND (3-4')

SB-3
0.0208 (6-7')

SB-14
NS

SB-13
ND (3-4')

SB-28
ND (3-4')

SB-21
223.5 (3-4')

SB-25
ND (4-5')

SB-20
ND (3-4')

SGMP-1
ND (4-5')

SB-24
ND (4-5')

SB-19
ND (3-4')

OFFICE

SB-26
ND (4-5')

SGMP-3
ND (3-4')

VACANT OFFICE

N

APPROXIMATE
0 20 40
SCALE IN FEET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- SOIL SAMPLE LOCATION
- 0.011 (4-5') TOTAL PETROLEUM CONCENTRATION (mg/kg) AND SAMPLE DEPTH
- 10 TOTAL PETROLEUM ISOCONTOUR LINE IN mg/kg (DASHED WHERE INFERRED)

NOTES:
1. SOIL SAMPLES FROM SOIL BORINGS SB-1 THROUGH SB-6 COLLECTED ON 02/07/13.
2. SOIL SAMPLES FROM SOIL BORINGS SB-7 THROUGH SB-29, SGMP-1, SGMP-3, AND SGMP-6 COLLECTED ON 09/16/13 TO 09/20/13.
3. ND = NO PETROLEUM COMPOUNDS DETECTED AT CONCENTRATIONS ABOVE LABORATORY REPORTING LIMITS.
4. NS = NOT SAMPLED.
6. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

TITLE **SUBSURFACE SOIL (>3 FT) PETROLEUM COMPOUNDS ISOCONCENTRATION MAP**

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 12/02/13	REVISION NO. 0
JOB NO. DS0-79	ATTACHMENT NO. 13K

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ATTACHMENT 17

GROUNDWATER ISOCONCENTRATION MAPS

W. PEACE STREET

AUTO REPAIR

CAR WASH

ROLLINS ECONOMY CLEANERS

SHOE REPAIR

FURNITURE SALES

TMW-1 <0.001

TMW-28 0.0023

TMW-29 0.0154

TMW-26 0.0073

TMW-7 <0.0010

TMW-32 0.0074

TMW-16 0.180

TMW-8 <0.0010

TMW-15 0.0384

TMW-9 <0.0010

TMW-25 0.0010J

TMW-17 NS

TMW-2 <0.01

TMW-5 0.148

TMW-10 <0.020

TMW-4 955

TMW-21 36

TMW-6 0.285

TMW-14 12

TMW-30 0.0117

TMW-31 0.0015

TMW-33 <0.0014

TMW-3 0.691

TMW-24 0.0057

TMW-13 27

TMW-11 0.0068

TMW-12 0.120

TMW-22 0.0073

0.0007

0.007

0.07

0.7

7

OFFICE

RESTAURANT

CAPITAL BOULEVARD

CAR WASH

TMW-20 0.0285

TMW-19 0.0577

TMW-23 0.0013

TMW-18 0.00039J

TMW-27 0.0102

OFFICE

AUTO REPAIR

N. HARRINGTON STREET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- TEMPORARY MONITORING WELL
- 0.0074 PCE CONCENTRATION IN mg/L
- 0.07 PCE ISOCONTOUR LINE IN mg/L (DASHED WHERE INFERRED)

NOTES:
1. GROUNDWATER SAMPLES FROM TEMPORARY WELLS TMW-1 THROUGH TMW-6 COLLECTED ON 02/07/13.
2. GROUNDWATER SAMPLES FROM TEMPORARY WELLS TMW-7 THROUGH TMW-16 AND TWM-18 THROUGH TMW-33 COLLECTED ON 09/16/13 TO 09/18/13.
3. NS = NOT SAMPLED.
4. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

N

APPROXIMATE
0 40 80
SCALE IN FEET

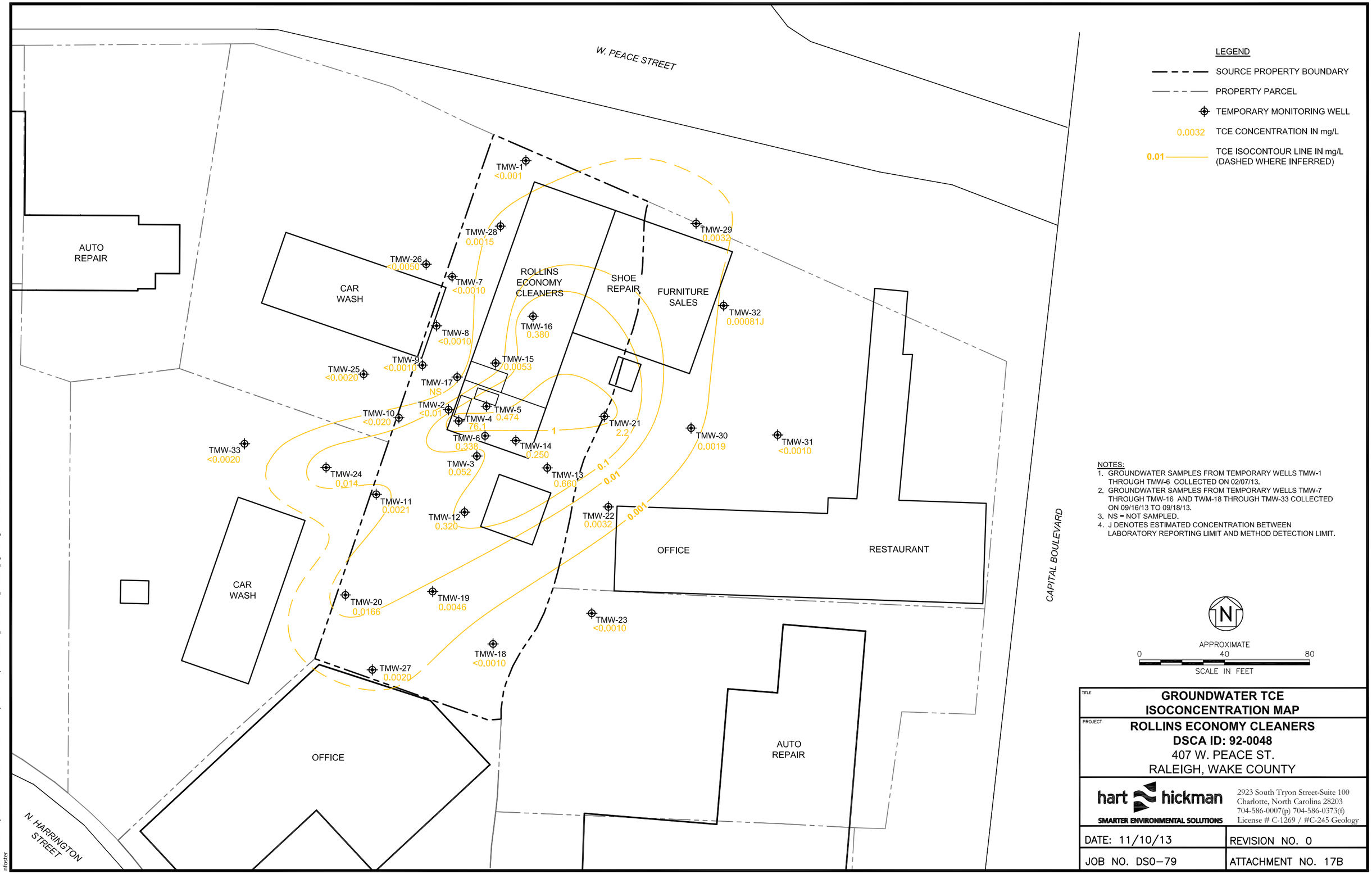
TITLE
GROUNDWATER PCE ISOCONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/10/13 | REVISION NO. 0

JOB NO. DS0-79 | ATTACHMENT NO. 17A



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W. PEACE STREET

AUTO REPAIR

CAR WASH

ROLLINS ECONOMY CLEANERS

SHOE REPAIR

FURNITURE SALES

TMW-1 0.00116

TMW-28 0.0869

TMW-29 0.0034

TMW-26 0.0036J

TMW-7 0.0732

TMW-32 0.00059J

TMW-16 0.460

TMW-8 0.0019

TMW-9 0.0007J

TMW-15 0.0141

TMW-25 <0.0020

TMW-17

TMW-2 <0.01

TMW-5 3.88

TMW-10 <0.020

TMW-4 115

TMW-21 14

TMW-6 0.597

TMW-14 0.460

TMW-30 0.0051

TMW-31 <0.0010

TMW-33 0.10

TMW-3 0.0609

TMW-24 0.170

TMW-13 0.930

TMW-11 0.0341

TMW-12 0.190

TMW-22 0.0017

OFFICE

RESTAURANT

CAPITAL BOULEVARD

CAR WASH

TMW-20 0.0043

TMW-19 0.0015

TMW-23 <0.0010

TMW-18 <0.0010

TMW-27 <0.0010

OFFICE

AUTO REPAIR

N. HARRINGTON STREET

0.07

0.7

7

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- TEMPORARY MONITORING WELL
- 0.0034 CIS-1,2-DICHLOROTHYLENE CONCENTRATION IN mg/L
- 0.07 CIS-1,2-DICHLOROTHYLENE ISOCONTOUR LINE IN mg/L (DASHED WHERE INFERRED)

NOTES:

1. GROUNDWATER SAMPLES FROM TEMPORARY WELLS TMW-1 THROUGH TMW-6 COLLECTED ON 02/07/13.
2. GROUNDWATER SAMPLES FROM TEMPORARY WELLS TMW-7 THROUGH TMW-16 AND TWM-18 THROUGH TMW-33 COLLECTED ON 09/16/13 TO 09/18/13.
3. NS = NOT SAMPLED.
4. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

N

APPROXIMATE

0 40 80

SCALE IN FEET

TITLE: GROUNDWATER CIS-1,2-DICHLOROETHYLENE ISOCONCENTRATION MAP

PROJECT: ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/10/13 | REVISION NO. 0

JOB NO. DS0-79 | ATTACHMENT NO. 17C

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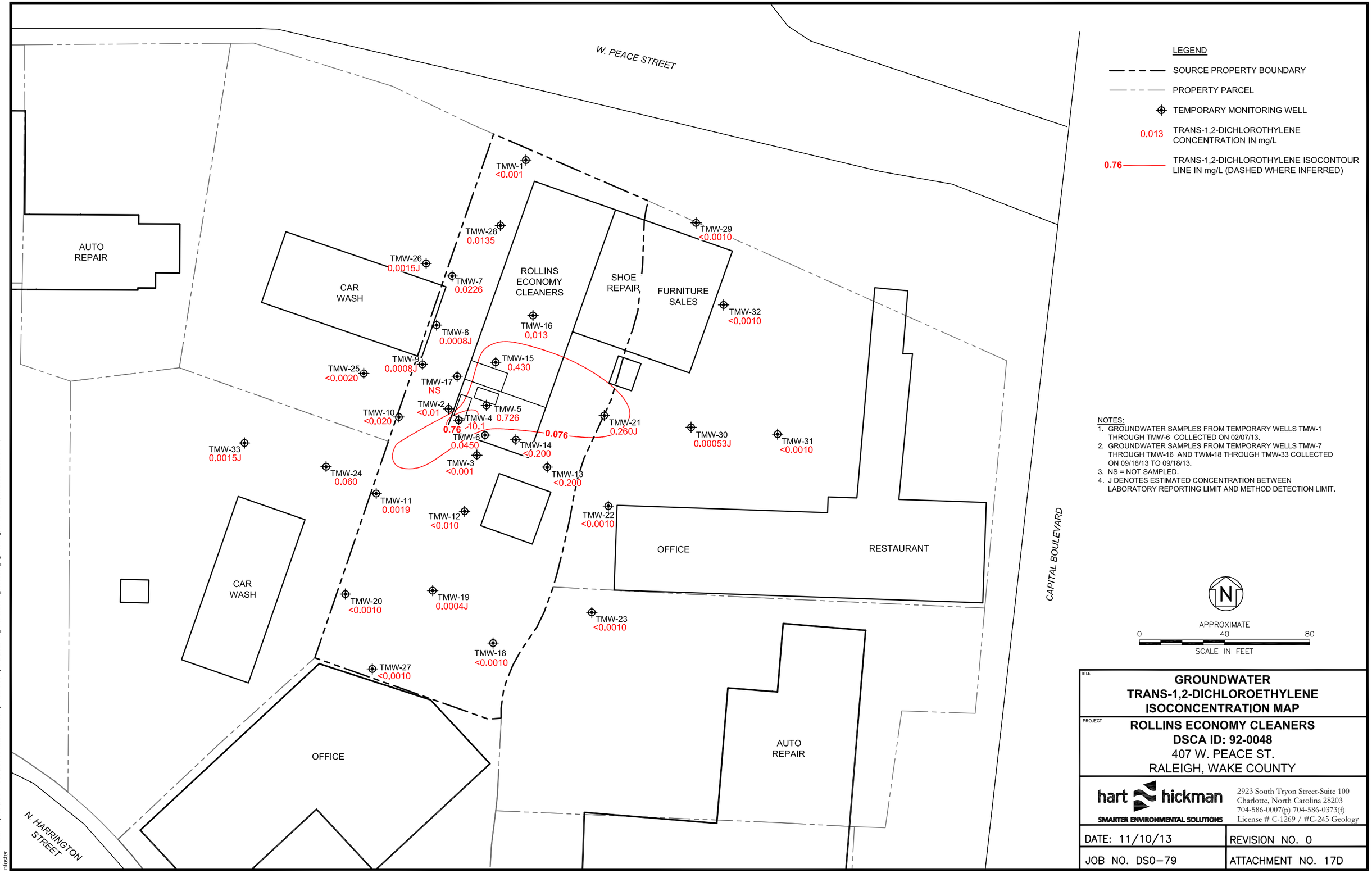


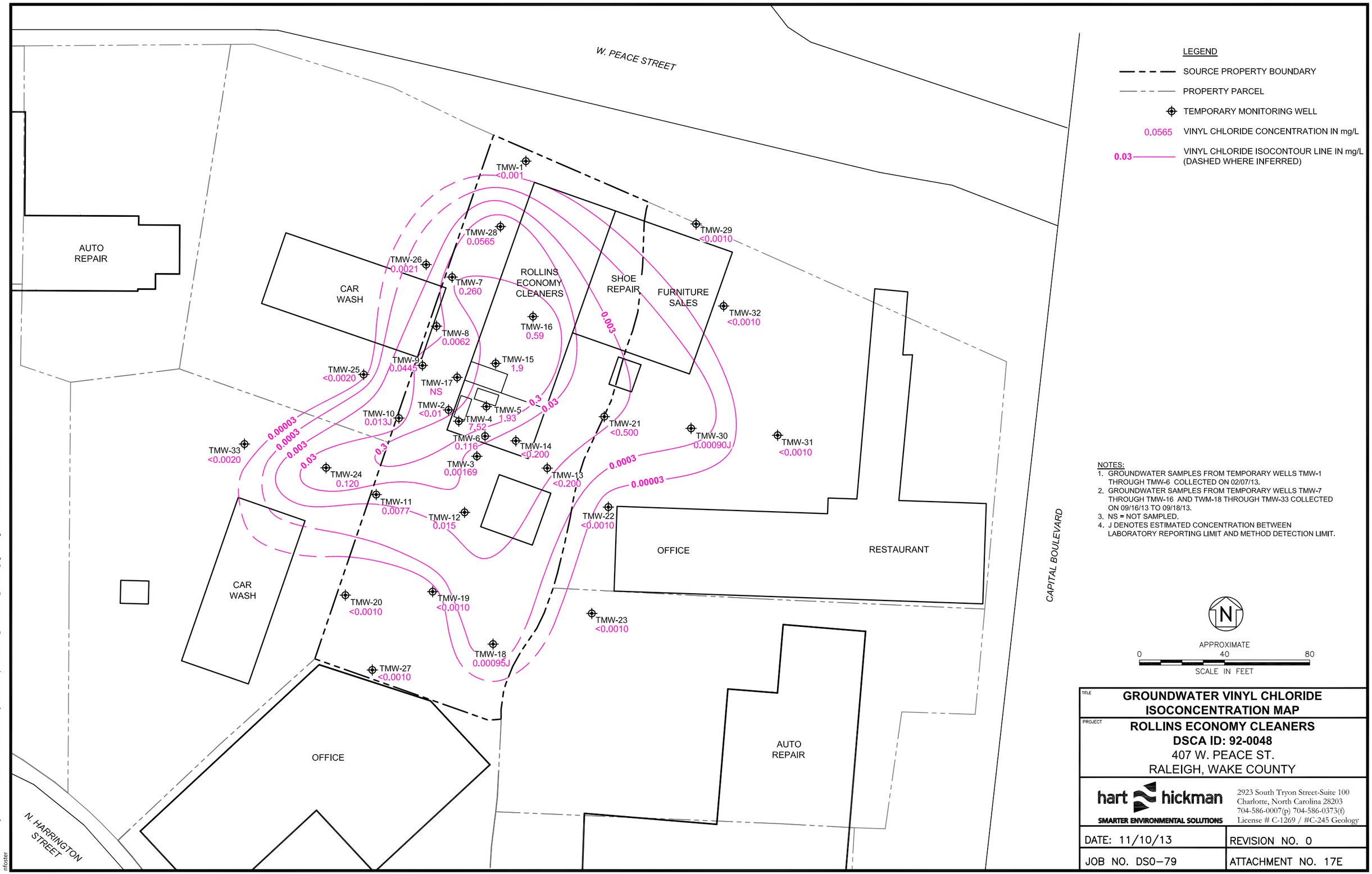
NOTES:
1. GROUNDWATER SAMPLES FROM TEMPORARY WELLS TMW-1 THROUGH TMW-6 COLLECTED ON 02/07/13.
2. GROUNDWATER SAMPLES FROM TEMPORARY WELLS TMW-7 THROUGH TMW-16 AND TWM-18 THROUGH TMW-33 COLLECTED ON 09/16/13 TO 09/18/13.
3. NS = NOT SAMPLED.
4. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

TITLE
GROUNDWATER TRANS-1,2-DICHLOROETHYLENE ISOCONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/10/13	REVISION NO. 0
JOB NO. DS0-79	ATTACHMENT NO. 17D



LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- TEMPORARY MONITORING WELL
- 0.0565 VINYL CHLORIDE CONCENTRATION IN mg/L
- 0.03 VINYL CHLORIDE ISOCONTOUR LINE IN mg/L (DASHED WHERE INFERRED)

NOTES:

1. GROUNDWATER SAMPLES FROM TEMPORARY WELLS TMW-1 THROUGH TMW-6 COLLECTED ON 02/07/13.
2. GROUNDWATER SAMPLES FROM TEMPORARY WELLS TMW-7 THROUGH TMW-16 AND TWM-18 THROUGH TMW-33 COLLECTED ON 09/16/13 TO 09/18/13.
3. NS = NOT SAMPLED.
4. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

N

APPROXIMATE
0 40 80
SCALE IN FEET

TITLE
GROUNDWATER VINYL CHLORIDE ISOCONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/10/13 | REVISION NO. 0
JOB NO. DS0-79 | ATTACHMENT NO. 17E

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LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- TEMPORARY MONITORING WELL
- 0.0232 TOTAL PETROLEUM CONCENTRATION IN mg/L
- 0.01 TOTAL PETROLEUM ISOCONTOUR LINE IN mg/L (DASHED WHERE INFERRED)

NOTES:

1. GROUNDWATER SAMPLES FROM TEMPORARY WELLS TMW-1 THROUGH TMW-6 COLLECTED ON 02/07/13.
2. GROUNDWATER SAMPLES FROM TEMPORARY WELLS TMW-7 THROUGH TMW-16 AND TWM-18 THROUGH TMW-33 COLLECTED ON 09/16/13 TO 09/18/13.
3. ND = NO PETROLEUM COMPOUNDS DETECTED AT CONCENTRATIONS ABOVE LABORATORY REPORTING LIMITS.
4. NS = NOT SAMPLED.

N

APPROXIMATE
0 40 80
SCALE IN FEET

TITLE **GROUNDWATER PETROLEUM COMPOUNDS ISOCONCENTRATION MAP**

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/21/13	REVISION NO. 0
JOB NO. DS0–79	ATTACHMENT NO. 17F

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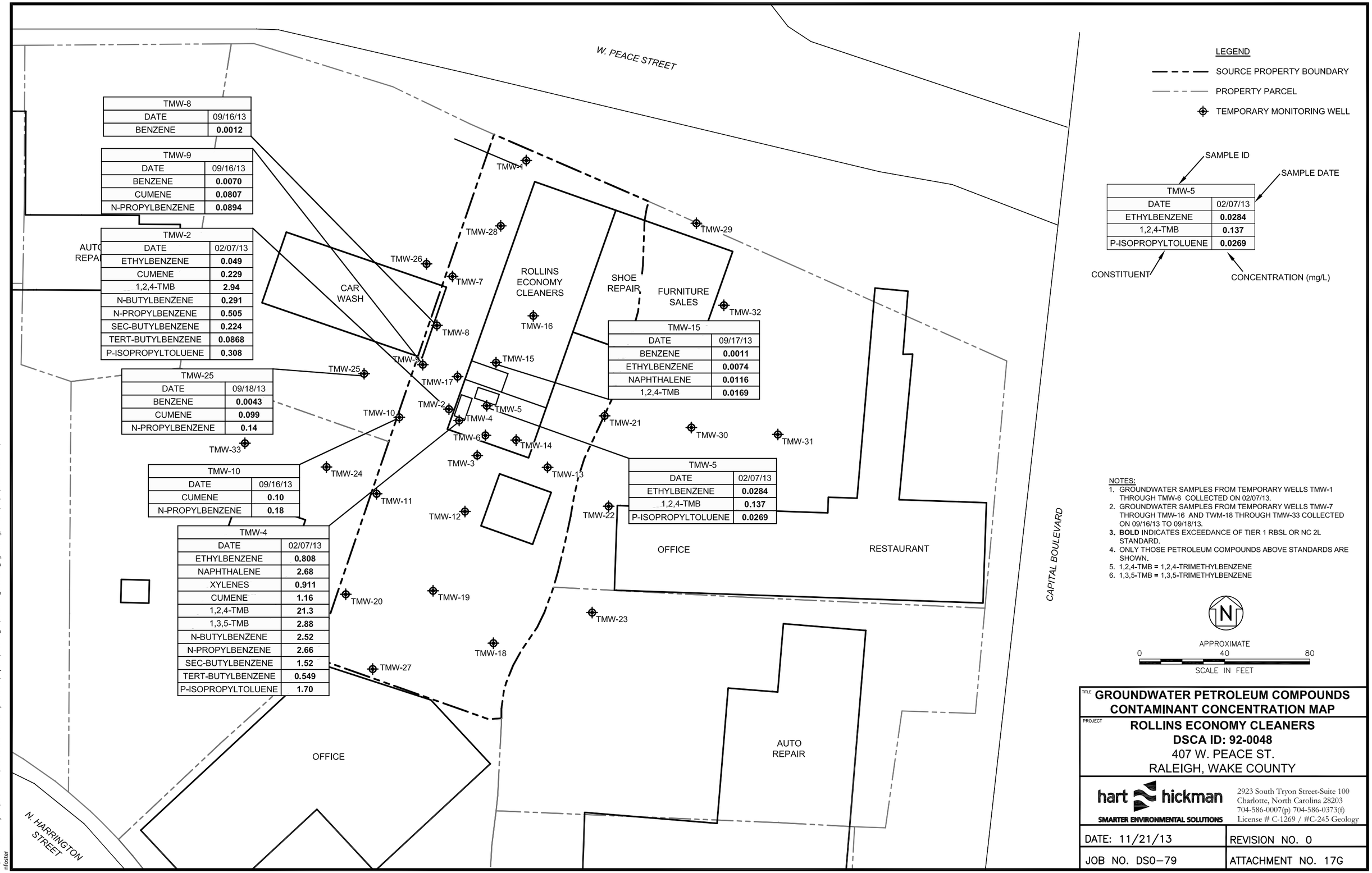

TMW-8	
DATE	09/16/13
BENZENE	**0.0012**

TMW-9	
DATE	09/16/13
BENZENE	**0.0070**
CUMENE	**0.0807**
N-PROPYLBENZENE	**0.0894**

TMW-2	
DATE	02/07/13
ETHYLBENZENE	**0.049**
CUMENE	**0.229**
1,2,4-TMB	**2.94**
N-BUTYLBENZENE	**0.291**
N-PROPYLBENZENE	**0.505**
SEC-BUTYLBENZENE	**0.224**
TERT-BUTYLBENZENE	**0.0868**
P-ISOPROPYLTOLUENE	**0.308**

TMW-25	
DATE	09/18/13
BENZENE	**0.0043**
CUMENE	**0.099**
N-PROPYLBENZENE	**0.14**

TMW-10	
DATE	09/16/13
CUMENE	**0.10**
N-PROPYLBENZENE	**0.18**

TMW-4	
DATE	02/07/13
ETHYLBENZENE	**0.808**
NAPHTHALENE	**2.68**
XYLENES	**0.911**
CUMENE	**1.16**
1,2,4-TMB	**21.3**
1,3,5-TMB	**2.88**
N-BUTYLBENZENE	**2.52**
N-PROPYLBENZENE	**2.66**
SEC-BUTYLBENZENE	**1.52**
TERT-BUTYLBENZENE	**0.549**
P-ISOPROPYLTOLUENE	**1.70**

TMW-15	
DATE	09/17/13
BENZENE	**0.0011**
ETHYLBENZENE	**0.0074**
NAPHTHALENE	**0.0116**
1,2,4-TMB	**0.0169**

TMW-5	
DATE	02/07/13
ETHYLBENZENE	**0.0284**
1,2,4-TMB	**0.137**
P-ISOPROPYLTOLUENE	**0.0269**

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- TEMPORARY MONITORING WELL

NOTES:
1. GROUNDWATER SAMPLES FROM TEMPORARY WELLS TMW-1 THROUGH TMW-6 COLLECTED ON 02/07/13.
2. GROUNDWATER SAMPLES FROM TEMPORARY WELLS TMW-7 THROUGH TMW-16 AND TWM-18 THROUGH TMW-33 COLLECTED ON 09/16/13 TO 09/18/13.
3. **BOLD** INDICATES EXCEEDANCE OF TIER 1 RBSL OR NC 2L STANDARD.
4. ONLY THOSE PETROLEUM COMPOUNDS ABOVE STANDARDS ARE SHOWN.
5. 1,2,4-TMB = 1,2,4-TRIMETHYLBENZENE
6. 1,3,5-TMB = 1,3,5-TRIMETHYLBENZENE

N

APPROXIMATE
0 40 80
SCALE IN FEET

TITLE **GROUNDWATER PETROLEUM COMPOUNDS CONTAMINANT CONCENTRATION MAP**

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/21/13 | REVISION NO. 0

JOB NO. DS0-79 | ATTACHMENT NO. 17G

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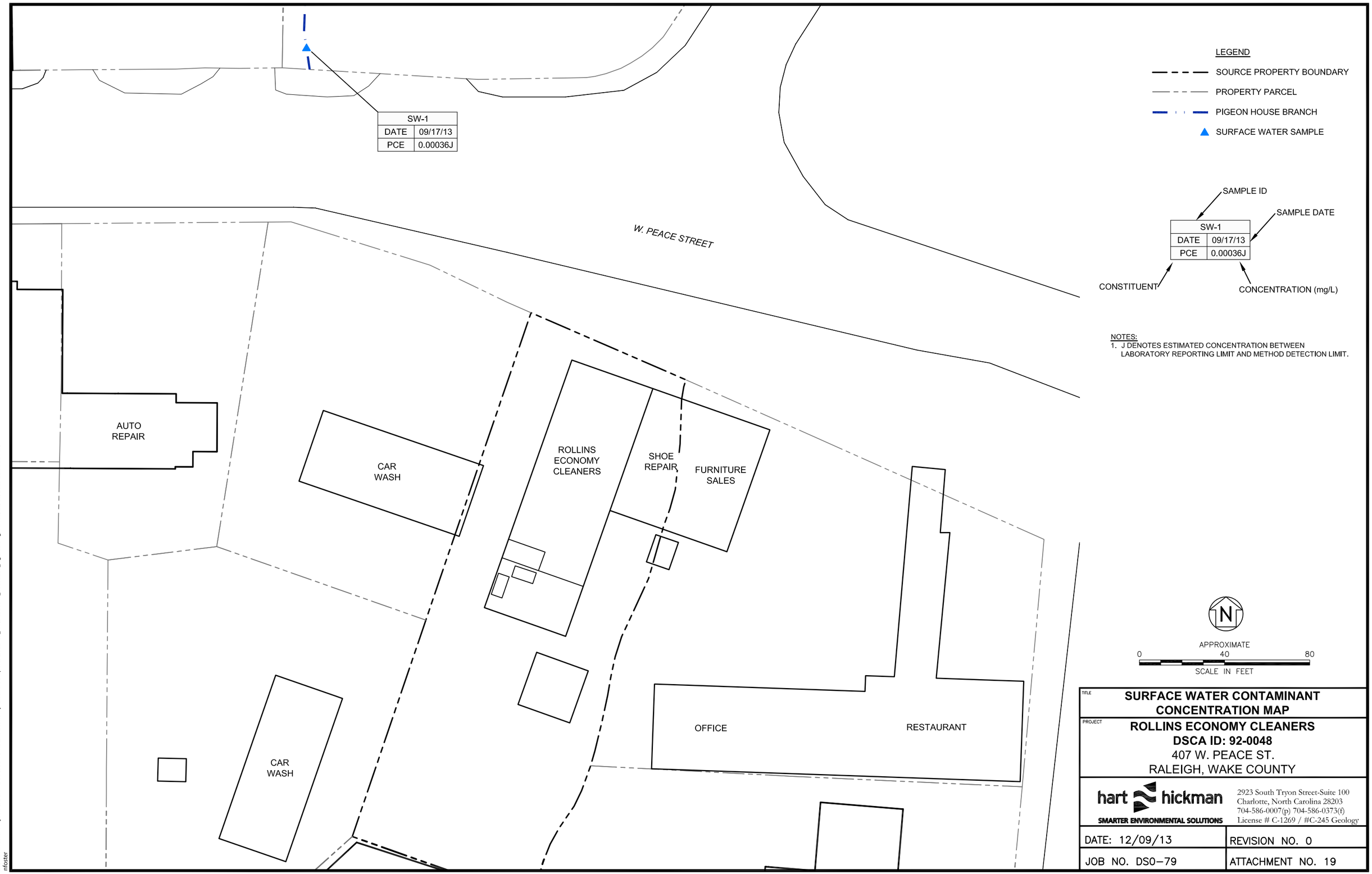
ATTACHMENT 19

SURFACE WATER CONTAMINATION CONCENTRATION MAP



NOTES:
1. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

TITLE
SURFACE WATER CONTAMINANT CONCENTRATION MAP

PROJECT
ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 12/09/13 | REVISION NO. 0
JOB NO. DS0-79 | ATTACHMENT NO. 19

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ATTACHMENT 21

LABORATORY ANALYTICAL DATA

KB LABS, INC.
6821 SW Archer Road
Gainesville, Florida 32608
***Telephone* (352) 367-0073**
***Fax* (352) 378-6491**
Email: info@kbmobilelabs.com

September 30, 2013

Timothy Klotz
Hart & Hickman
3334 Hillsborough St
Raleigh, NC 27607

RE: Rollins Economy Cleaners, Raleigh, NC - Final Data Report
KB Labs Project # 13-103

Dear Mr. Klotz:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from September 16 to 19, 2013. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratory (KB-2) has been inspected by the North Carolina Department of Environment and Natural Resources and is certified by the Division of Water Quality. Our personnel, methodology. proficiency testing, and quality assurance requirements comply with the guidelines of 15 NCAC 2B.0500, 2H.0900 and 2L .0100, .0200, .0300, and 2N .0100 through .0800 and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NCDENR and NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 472-5830.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

KB Labs, Inc.
6821 SW Archer Road
Gainesville, FL 32608
Phone: 352-367-0073
Fax: 352-378-6491
Email: info@kbmobilelabs.com

PROJECT NARRATIVE

Project Scope

From September 16 to 19, 2013, a total of 70 samples (43 soils and 27 water) were analyzed for Hart & Hickman at Rollins Economy Cleaners, Raleigh, NC. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, tetrachloroethene, benzene, toluene, ethylbenzene, xylenes, Isopropylbenzene, n-propylbenzene, 1,3,5-trimethylbenzene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, p-isopropyltoluene, n-butylbenzene, and naphthalene.

NELAP Certification

KB Mobile Labs Unit KB2: NCDENR Certification Number 632
KB Labs: (% Solids)

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

The soil samples were analyzed using SW846 Method 5030/8260. One (1) gram (g) of soil sample was added to 10 mL of laboratory reagent water, heated and analyzed like a water sample as described above.

Soil data are corrected for percent solid values supplied by KB Labs.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

"KB Labs is a small, woman-owned business enterprise."

KB Labs, Inc.
6821 SW Archer Road
Gainesville, FL 32608
Phone: 352-367-0073
Fax: 352-378-6491
Email: info@kbmobilelabs.com

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as ± 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

KB Labs, Inc.
6821 SW Archer Road
Gainesville, FL 32608
Phone: 352-367-0073
Fax: 352-378-6491
Email: info@kbmobilelabs.com

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding, sample weights, and significant figures.

2. Values between KB Labs Reporting Limit (RL) and Method Detection Limit (MDL) are reported per NCDENR DSCA requirements. All data indicated with J Data Qualifier.

3. Changes for sample ID SB-15 3-4' reported:
   trichloroethene 0.121J changed to 0.060 J mg/kg
   tetrachloroethene 10.5 changed to 5.2 mg/kg

4. Changes for sample ID SB-19 0-1' reported:
   m,p-Xylene 0.78 J changed to 0.078J mg/kg
   naphthalene 0.34 J changed to 0.068J mg/kg

5. Changes for sample ID SB-23 3-4' reported:
   c-1,2-dichloroethene 5.0 changed to 0.71 mg/kg
   tetrachloroethene 0.45J changed to 0.53 U mg/kg
   1,3,5-trimethylbenzene 0.62 changed to 0.53 U mg/kg
   1,2,4-trimethylbenzene 1.7 changed to 0.31J mg/kg
   sec-butylbenzene 0.53 U changed to 0.24 J mg/kg

6. Sample D TMW-8 reported tert-butylbenzene 28.6 changed to 24.0 ug/L.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: Rollins Economy Cleaners	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-103
On-site Dates: 9/16/13-9/19/13	**Client Project Manager**: Timothy Klotz	**Matrix:** Water/Soil

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
TUNE	09/16/13	115	110	93	96	Pass	Pass	Pass	Pass
CCS 50	09/16/13	97	107	98	98	Pass	Pass	Pass	Pass
LCS 20	09/16/13	97	101	99	99	Pass	Pass	Pass	Pass
BLANK	09/16/13	101	96	100	102	Pass	Pass	Pass	Pass
2091613-01A(TMW-7)	09/16/13	102	95	99	104	Pass	Pass	Pass	Pass
2091613-02A(TMW-8)	09/16/13	106	100	97	130	Pass	Pass	Pass	Pass
2091613-03A(TMW-9)	09/16/13	99	91	99	296	Pass	Pass	Pass	> UCL
2091613-04A(TMW-10) 1:20	09/16/13	104	95	99	113	Pass	Pass	Pass	Pass
2091613-05A(TMW-12) 1:10	09/16/13	110	105	102	101	Pass	Pass	Pass	Pass
2091613-06A(TMW-11)	09/16/13	102	99	96	138	Pass	Pass	Pass	> UCL
2091613-05A(TMW-12) MS	09/16/13	98	99	100	96	Pass	Pass	Pass	Pass
2091613-05A(TMW-12) MSD	09/16/13	99	98	101	99	Pass	Pass	Pass	Pass
CCS 50	09/16/13	99	107	100	96	Pass	Pass	Pass	Pass
TUNE	09/17/13	124	115	98	85	Pass	Pass	Pass	Pass
CCS 50	09/17/13	109	117	96	98	Pass	Pass	Pass	Pass
LCS 20	09/17/13	107	103	100	98	Pass	Pass	Pass	Pass
BLANK	09/17/13	108	102	98	97	Pass	Pass	Pass	Pass
SOIL LCS 20	09/17/13	104	102	100	96	Pass	Pass	Pass	Pass
SOIL BLANK	09/17/13	109	98	102	105	Pass	Pass	Pass	Pass
2091613-01B(TMW-7) 1:10	09/17/13	108	94	96	101	Pass	Pass	Pass	Pass
2091613-07A(SB-7 2-3')	09/17/13	110	103	98	205	Pass	Pass	Pass	> UCL
2091613-08A(SB-7 5-6')	09/17/13	108	104	100	256	Pass	Pass	Pass	> UCL
2091613-09A(SB-8 2-3'')	09/17/13	107	97	95	219	Pass	Pass	Pass	> UCL
2091613-10A(SB-8 5-6')	09/17/13	108	103	96	115	Pass	Pass	Pass	Pass
2091613-10A(SB-8 5-6')	09/17/13	105	97	99	375	Pass	Pass	Pass	> UCL
2091613-11A(SB-9 2-3')	09/17/13	113	108	88	426	Pass	Pass	Pass	> UCL
2091613-12A(SB-9 5-6')	09/17/13	108	98	93	130	Pass	Pass	Pass	Pass
2091613-13A(SB-10 2-3')	09/17/13	106	99	93	259	Pass	Pass	Pass	> UCL
2091613-14A(SB-10 3-4')	09/17/13	103	94	93	117	Pass	Pass	Pass	Pass
2091613-15A(SB-11 1-2')	09/17/13	110	103	98	112	Pass	Pass	Pass	Pass
2091613-16A(SB-11 4-5')	09/17/13	106	99	97	130	Pass	Pass	Pass	Pass
2091613-01A(TMW-13) 1:200	09/17/13	107	103	94	97	Pass	Pass	Pass	Pass
2091613-02A(TMW-14) 1:200	09/17/13	117	109	100	97	Pass	Pass	Pass	Pass
2091613-03A(SB-12 2-3')	09/17/13	105	98	94	125	Pass	Pass	Pass	Pass
2091613-04A(SB-12 3-4')	09/17/13	106	98	96	99	Pass	Pass	Pass	Pass
2091713-05A(SB-13 2-3')	09/17/13	108	102	99	106	Pass	Pass	Pass	Pass
2091713-03A(SB-12 2-3')	09/17/13	110	103	93	200	Pass	Pass	Pass	> UCL
2091713-06A(SB-13 3-4)	09/17/13	98	93	95	100	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: Rollins Economy Cleaners	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-103
On-site Dates: 9/16/13-9/19/13	**Client Project Manager**: Timothy Klotz	**Matrix:** Water/Soil

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
2091713-07A(SB-14 2-3')	09/17/13	107	100	103	87	Pass	Pass	Pass	Pass
2091713-08A)SB-15 2-3')	09/17/13	105	104	93	95	Pass	Pass	Pass	Pass
2091713-09A)SB-15 3-4')	09/17/13	102	93	94	96	Pass	Pass	Pass	Pass
2091713-14A(SW-1)	09/17/13	106	100	100	106	Pass	Pass	Pass	Pass
2091713-01B(TMW-13) 1:500	09/17/13	110	106	96	98	Pass	Pass	Pass	Pass
2091713-14A(SW-1)MS	09/17/13	109	103	99	91	Pass	Pass	Pass	Pass
2091713-14A(SW-1)MSD	09/17/13	102	95	100	94	Pass	Pass	Pass	Pass
2091713-04A(SB-12 3-4') MS	09/17/13	105	100	100	101	Pass	Pass	Pass	Pass
2091713-04A(SB-12 3-4') MSD	09/17/13	104	102	100	100	Pass	Pass	Pass	Pass
CCS 50	09/17/13	100	102	100	100	Pass	Pass	Pass	Pass
TUNE	09/18/13	113	98	99	97	Pass	Pass	Pass	Pass
CCS 50	09/18/13	104	115	97	98	Pass	Pass	Pass	Pass
LCS 20	09/18/13	107	109	97	94	Pass	Pass	Pass	Pass
BLANK	09/18/13	114	102	99	99	Pass	Pass	Pass	Pass
SOIL LCS 20	09/18/13	105	101	100	97	Pass	Pass	Pass	Pass
SOIL BLANK	09/18/13	105	95	100	101	Pass	Pass	Pass	Pass
2091713-15A(TMW-18)	09/18/13	111	102	98	98	Pass	Pass	Pass	Pass
2091713-16A(TMW-20)	09/18/13	109	98	99	98	Pass	Pass	Pass	Pass
2091713-17A(TMW-19)	09/18/13	108	99	98	102	Pass	Pass	Pass	Pass
2091713-10A(SB-16 1-2')	09/18/13	110	100	100	103	Pass	Pass	Pass	Pass
2091713-11A(SB-16 4-5')	09/18/13	108	100	91	149	Pass	Pass	Pass	> UCL
2091713-12A(SB-17 2-3')	09/18/13	106	95	99	100	Pass	Pass	Pass	Pass
2091713-13A(SB-17 3-4')	09/18/13	107	97	95	101	Pass	Pass	Pass	Pass
2091813-05A(TMW-23)	09/18/13	108	99	98	100	Pass	Pass	Pass	Pass
2091813-06A(TMW-22)	09/18/13	108	98	98	100	Pass	Pass	Pass	Pass
2091813-01A(TMW-16) 1:10	09/18/13	109	101	100	102	Pass	Pass	Pass	Pass
2091813-02A(TMW-15)	09/18/13	108	96	97	150	Pass	Pass	Pass	> UCL
2091813-02A(TMW-15) 1:20	09/18/13	105	95	97	105	Pass	Pass	Pass	Pass
2091713-12A(SB-17 2-3')	09/18/13	107	102	96	101	Pass	Pass	Pass	Pass
2091713-13A(SB-17 3-4')	09/18/13	111	106	97	102	Pass	Pass	Pass	Pass
2091613-11A(SB-9 2-3')	09/18/13	107	103	93	272	Pass	Pass	Pass	> UCL
2091813-03A (SB-18 2-3')	09/18/13	114	107	108	119	Pass	Pass	Pass	Pass
2091813-04A (SB-18 4-5')	09/18/13	112	105	105	109	Pass	Pass	Pass	Pass
2091813-07A(TMW-21) 1:500	09/18/13	107	103	98	100	Pass	Pass	Pass	Pass
2091813-08A(TMW-26) 1:100	09/18/13	109	101	100	101	Pass	Pass	Pass	Pass
2091813-09A(TMW-24) 1:5	09/18/13	107	98	99	100	Pass	Pass	Pass	Pass
2091813-08A(TMW-26) 1:5	09/18/13	108	101	98	100	Pass	Pass	Pass	Pass
2091813-10A(TMW-25) 1:2	09/18/13	107	96	97	193	Pass	Pass	Pass	> UCL

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: Rollins Economy Cleaners	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-103
On-site Dates: 9/16/13-9/19/13	**Client Project Manager**: Timothy Klotz	**Matrix:** Water/Soil

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
2091813-11A(TMW-27)	09/18/13	107	99	99	101	Pass	Pass	Pass	Pass
CCS 50	09/18/13	107	110	101	97	Pass	Pass	Pass	Pass
BLANK	09/18/13	106	98	99	99	Pass	Pass	Pass	Pass
BLANK	09/18/13	110	101	99	100	Pass	Pass	Pass	Pass
2091813-12A(SB-20 1-2')	09/18/13	108	98	99	102	Pass	Pass	Pass	Pass
2091813-13A(SB-20 3-4')	09/18/13	110	100	95	100	Pass	Pass	Pass	Pass
2091813-05B(TMW-23)MS	09/18/13	103	97	102	96	Pass	Pass	Pass	Pass
2091813-05B(TMW-23)MSD	09/18/13	104	97	100	98	Pass	Pass	Pass	Pass
2091713-10A(SB-16 1-2')MS	09/18/13	105	99	100	100	Pass	Pass	Pass	Pass
2091713-10A(SB-16 1-2')MSD	09/18/13	106	100	102	100	Pass	Pass	Pass	Pass
CCS 50	09/18/13	102	103	100	100	Pass	Pass	Pass	Pass
TUNE	09/19/13	123	101	97	95	Pass	Pass	Pass	Pass
CCS 50	09/19/13	109	108	95	97	Pass	Pass	Pass	Pass
SOIL LCS 20	09/19/13	110	102	98	96	Pass	Pass	Pass	Pass
SOIL BLANK	09/19/13	111	99	98	103	Pass	Pass	Pass	Pass
2091813-03A(SB-18 2-3')	09/19/13	114	102	96	100	Pass	Pass	Pass	Pass
2091813-12A(SB-20 1-2')	09/19/13	118	107	93	100	Pass	Pass	Pass	Pass
2091813-14A(SB-21 2-3')	09/19/13	113	104	94	103	Pass	Pass	Pass	Pass
2091813-15A(SB-21 3-4')	09/19/13	116	107	90	186	Pass	Pass	Pass	> UCL
2091813-16A(SB-19 0-1')	09/19/13	113	103	89	131	Pass	Pass	Pass	Pass
2091813-17A(SB-19 3-4')	09/19/13	109	101	100	110	Pass	Pass	Pass	Pass
2091913-01A(TMW-28)	09/19/13	110	98	97	101	Pass	Pass	Pass	Pass
2091913-01A(TMW-30)	09/19/13	109	99	95	102	Pass	Pass	Pass	Pass
2091913-03A(TMW-29)	09/19/13	108	100	96	100	Pass	Pass	Pass	Pass
2091913-04A(SB-23 1-2')	09/19/13	112	105	85	273	Pass	Pass	< LCL	> UCL
2091913-05A(SB-23 3-4')	09/19/13	106	98	91	112	Pass	Pass	Pass	Pass
2091913-06A(SB-22 0-1')	09/19/13	97	97	94	146	Pass	Pass	Pass	> UCL
2091913-07A(SB-22 3-4')	09/19/13	105	98	87	120	Pass	Pass	Pass	Pass
2091913-08A(SB-24 2-3')	09/19/13	108	96	95	101	Pass	Pass	Pass	Pass
2091913-09A(SB-24 4-5')	09/19/13	113	103	100	110	Pass	Pass	Pass	Pass
2091913-10A(SB-25 2-3')	09/19/13	113	103	98	104	Pass	Pass	Pass	Pass
2091913-11A(SB-25 4-5')	09/19/13	114	104	94	104	Pass	Pass	Pass	Pass
2091913-12A(SB-26 2-3')	09/19/13	111	101	97	102	Pass	Pass	Pass	Pass
2091913-13A(SB-26 4-5')	09/19/13	140	132	94	100	> UCL	> UCL	Pass	Pass
2091913-08A(SB-24 2-3')MS	09/19/13	104	101	98	95	Pass	Pass	Pass	Pass
2091913-08A(SB-24 2-3')MSD	09/19/13	103	99	98	97	Pass	Pass	Pass	Pass
CCS 50	09/19/13	100	106	98	99	Pass	Pass	Pass	Pass
LCS 20	09/19/13	99	99	99	98	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: Rollins Economy Cleaners	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-103
On-site Dates: 9/16/13-9/19/13	**Client Project Manager**: Timothy Klotz	**Matrix:** Water/Soil

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK	09/19/13	103	98	100	102	Pass	Pass	Pass	Pass
BLANK	09/19/13	104	100	101	103	Pass	Pass	Pass	Pass
2091913-14A(TMW-31)	09/19/13	104	99	101	107	Pass	Pass	Pass	Pass
2091913-15A(TMW-32)	09/19/13	104	98	102	104	Pass	Pass	Pass	Pass
2091913-16A(TMW-33) 1:2	09/19/13	106	99	103	102	Pass	Pass	Pass	Pass
2091913-17A(SB-28 1-2')	09/19/13	106	97	98	103	Pass	Pass	Pass	Pass
2091913-18A(SB-28 3-4')	09/19/13	114	107	109	116	Pass	Pass	Pass	Pass
2091913-19A(SB-27 0-1')	09/19/13	115	106	107	108	Pass	Pass	Pass	Pass
2091913-20A(SB-27 4-5)	09/19/13	126	130	90	97	> UCL	Pass	Pass	Pass
2091913-16A(SB-26 4-5')	09/19/13	108	98	103	104	Pass	Pass	Pass	Pass
2091913-14B(TMW-31)MS	09/19/13	103	99	103	97	Pass	Pass	Pass	Pass
2091913-14B(TMW-31)MSD	09/19/13	100	95	103	98	Pass	Pass	Pass	Pass
CCS 50	09/19/13	99	101	104	100	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data. Matrix effect on some 4th surrogate recoveries.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: Rollins Economy Cleaners	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 13-103
Onsite Dates: 9/16/13-919/13	**Client Project Manager:** Timothy Klotz	**Matrix**: Water/Soil

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: 2091613-05A(TMW-12) **Date of Analysis:** 9/16/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	38	145	20	84	78	7	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	100	99	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	95	92	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	69	68	1	Pass	Pass	Pass
Benzene	71	123	20	91	87	4	Pass	Pass	Pass
Trichloroethene	64	134	20	77	73	6	Pass	Pass	Pass
Toluene	67	130	20	92	87	6	Pass	Pass	Pass
Tetrachloroethene	54	140	20	81	77	5	Pass	Pass	Pass
Ethylbenzene	69	125	20	96	94	2	Pass	Pass	Pass
m,p-Xylene	63	144	20	118	116	1	Pass	Pass	Pass
o-Xylene	74	125	20	106	103	2	Pass	Pass	Pass
Isopropylbenzene(cumene)	56	149	20	113	110	2	Pass	Pass	Pass
n-Propylbenzene	57	139	20	106	102	3	Pass	Pass	Pass
1,3,5-Trimethylbenzene	64	133	20	102	98	4	Pass	Pass	Pass
tert-Butylbenzene	55	137	20	109	106	3	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	100	97	3	Pass	Pass	Pass
sec-Butylbenzene	61	133	20	115	112	2	Pass	Pass	Pass
p-Isopropyltoluene	55	146	20	114	110	3	Pass	Pass	Pass
n-Butylbenzene	68	128	20	106	101	4	Pass	Pass	Pass
Naphthalene	35	153	20	85	82	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: 2091713-04A-04A(SB-12 3-4') **Date of Analysis:** 9/17/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	38	145	20	94	96	1	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	121	117	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	112	111	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	96	92	4	Pass	Pass	Pass
Benzene	71	123	20	95	96	1	Pass	Pass	Pass
Trichloroethene	64	134	20	95	98	3	Pass	Pass	Pass
Toluene	67	130	20	97	97	0	Pass	Pass	Pass
Tetrachloroethene	54	140	20	97	96	1	Pass	Pass	Pass
Ethylbenzene	69	125	20	102	100	1	Pass	Pass	Pass
m,p-Xylene	63	144	20	121	120	1	Pass	Pass	Pass
o-Xylene	74	125	20	106	106	0	Pass	Pass	Pass
Isopropylbenzene(cumene)	56	149	20	111	109	2	Pass	Pass	Pass
n-Propylbenzene	57	139	20	102	100	2	Pass	Pass	Pass
1,3,5-Trimethylbenzene	64	133	20	112	112	0	Pass	Pass	Pass
tert-Butylbenzene	55	137	20	107	107	0	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	109	110	1	Pass	Pass	Pass
sec-Butylbenzene	61	133	20	113	112	1	Pass	Pass	Pass
p-Isopropyltoluene	55	146	20	112	111	0	Pass	Pass	Pass
n-Butylbenzene	68	128	20	112	111	2	Pass	Pass	Pass
Naphthalene	35	153	20	88	94	7	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: Rollins Economy Cleaners	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 13-103
Onsite Dates: 9/16/13-919/13	**Client Project Manager:** Timothy Klotz	**Matrix**: Water/Soil

Samples: 2091713-14A(SW-1) **Date of Analysis:** 9/17/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	38	145	20	100	95	5	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	121	110	10	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	114	103	10	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	101	93	8	Pass	Pass	Pass
Benzene	71	123	20	98	93	6	Pass	Pass	Pass
Trichloroethene	64	134	20	98	94	4	Pass	Pass	Pass
Toluene	67	130	20	98	95	3	Pass	Pass	Pass
Tetrachloroethene	54	140	20	101	94	8	Pass	Pass	Pass
Ethylbenzene	69	125	20	100	98	2	Pass	Pass	Pass
m,p-Xylene	63	144	20	120	118	2	Pass	Pass	Pass
o-Xylene	74	125	20	103	101	2	Pass	Pass	Pass
Isopropylbenzene(cumene)	56	149	20	112	109	3	Pass	Pass	Pass
n-Propylbenzene	57	139	20	101	99	2	Pass	Pass	Pass
1,3,5-Trimethylbenzene	64	133	20	111	109	2	Pass	Pass	Pass
tert-Butylbenzene	55	137	20	103	103	0	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	109	106	3	Pass	Pass	Pass
sec-Butylbenzene	61	133	20	113	110	3	Pass	Pass	Pass
p-Isopropyltoluene	55	146	20	113	110	3	Pass	Pass	Pass
n-Butylbenzene	68	128	20	113	109	4	Pass	Pass	Pass
Naphthalene	35	153	20	85	80	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: 2091713-10A(SB-16 1-2') **Date of Analysis:** 9/18/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	38	145	20	70	70	1	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	103	108	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	92	96	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	-232	-229	-1	< LCL	< LCL	Pass
Benzene	71	123	20	88	88	0	Pass	Pass	Pass
Trichloroethene	64	134	20	82	87	6	Pass	Pass	Pass
Toluene	67	130	20	89	91	2	Pass	Pass	Pass
Tetrachloroethene	54	140	20	96	186	64	Pass	> UCL	> RPDL
Ethylbenzene	69	125	20	94	95	1	Pass	Pass	Pass
m,p-Xylene	63	144	20	117	118	1	Pass	Pass	Pass
o-Xylene	74	125	20	106	106	0	Pass	Pass	Pass
Isopropylbenzene(cumene)	56	149	20	111	110	0	Pass	Pass	Pass
n-Propylbenzene	57	139	20	103	102	0	Pass	Pass	Pass
1,3,5-Trimethylbenzene	64	133	20	100	100	0	Pass	Pass	Pass
tert-Butylbenzene	55	137	20	107	106	0	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	99	99	0	Pass	Pass	Pass
sec-Butylbenzene	61	133	20	112	112	0	Pass	Pass	Pass
p-Isopropyltoluene	55	146	20	110	109	1	Pass	Pass	Pass
n-Butylbenzene	68	128	20	98	97	0	Pass	Pass	Pass
Naphthalene	35	153	20	71	70	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: Rollins Economy Cleaners	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 13-103
Onsite Dates: 9/16/13-919/13	**Client Project Manager:** Timothy Klotz	**Matrix**: Water/Soil

Samples: 2091813-05A(TMW-23) **Date of Analysis:** 9/18/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	38	145	20	73	70	4	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	110	104	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	97	91	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	93	91	2	Pass	Pass	Pass
Benzene	71	123	20	91	91	0	Pass	Pass	Pass
Trichloroethene	64	134	20	88	87	0	Pass	Pass	Pass
Toluene	67	130	20	95	91	4	Pass	Pass	Pass
Tetrachloroethene	54	140	20	89	85	5	Pass	Pass	Pass
Ethylbenzene	69	125	20	96	93	2	Pass	Pass	Pass
m,p-Xylene	63	144	20	118	115	3	Pass	Pass	Pass
o-Xylene	74	125	20	105	104	1	Pass	Pass	Pass
Isopropylbenzene(cumene)	56	149	20	112	110	2	Pass	Pass	Pass
n-Propylbenzene	57	139	20	106	104	2	Pass	Pass	Pass
1,3,5-Trimethylbenzene	64	133	20	104	101	3	Pass	Pass	Pass
tert-Butylbenzene	55	137	20	110	105	5	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	102	100	2	Pass	Pass	Pass
sec-Butylbenzene	61	133	20	118	115	3	Pass	Pass	Pass
p-Isopropyltoluene	55	146	20	114	112	2	Pass	Pass	Pass
n-Butylbenzene	68	128	20	107	103	4	Pass	Pass	Pass
Naphthalene	35	153	20	66	75	13	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: 2091913-08A(SB-24 2-3') **Date of Analysis:** 9/19/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	38	145	20	70	67	5	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	94	90	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	86	83	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	94	91	3	Pass	Pass	Pass
Benzene	71	123	20	97	95	3	Pass	Pass	Pass
Trichloroethene	64	134	20	92	89	3	Pass	Pass	Pass
Toluene	67	130	20	98	94	5	Pass	Pass	Pass
Tetrachloroethene	54	140	20	90	86	5	Pass	Pass	Pass
Ethylbenzene	69	125	20	95	93	3	Pass	Pass	Pass
m,p-Xylene	63	144	20	119	115	3	Pass	Pass	Pass
o-Xylene	74	125	20	106	102	3	Pass	Pass	Pass
Isopropylbenzene(cumene)	56	149	20	111	108	3	Pass	Pass	Pass
n-Propylbenzene	57	139	20	105	102	3	Pass	Pass	Pass
1,3,5-Trimethylbenzene	64	133	20	101	100	1	Pass	Pass	Pass
tert-Butylbenzene	55	137	20	107	105	2	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	102	99	3	Pass	Pass	Pass
sec-Butylbenzene	61	133	20	116	112	4	Pass	Pass	Pass
p-Isopropyltoluene	55	146	20	113	111	2	Pass	Pass	Pass
n-Butylbenzene	68	128	20	106	103	2	Pass	Pass	Pass
Naphthalene	35	153	20	84	83	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: Rollins Economy Cleaners	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 13-103
Onsite Dates: 9/16/13-919/13	**Client Project Manager:** Timothy Klotz	**Matrix**: Water/Soil

Samples: 2091913-14A(TMW-31) **Date of Analysis:** 9/19/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	38	145	20	64	66	3	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	101	96	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	88	85	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	88	87	0	Pass	Pass	Pass
Benzene	71	123	20	86	87	1	Pass	Pass	Pass
Trichloroethene	64	134	20	83	83	0	Pass	Pass	Pass
Toluene	67	130	20	87	88	1	Pass	Pass	Pass
Tetrachloroethene	54	140	20	81	84	3	Pass	Pass	Pass
Ethylbenzene	69	125	20	92	93	1	Pass	Pass	Pass
m,p-Xylene	63	144	20	104	104	0	Pass	Pass	Pass
o-Xylene	74	125	20	100	100	0	Pass	Pass	Pass
Isopropylbenzene(cumene)	56	149	20	108	109	1	Pass	Pass	Pass
n-Propylbenzene	57	139	20	103	103	0	Pass	Pass	Pass
1,3,5-Trimethylbenzene	64	133	20	99	99	1	Pass	Pass	Pass
tert-Butylbenzene	55	137	20	105	106	1	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	98	99	1	Pass	Pass	Pass
sec-Butylbenzene	61	133	20	113	114	1	Pass	Pass	Pass
p-Isopropyltoluene	55	146	20	109	110	1	Pass	Pass	Pass
n-Butylbenzene	68	128	20	101	102	1	Pass	Pass	Pass
Naphthalene	35	153	20	66	74	11	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Laboratory Control Spikes (LCS):

Samples: LCS 1 **Date of Analysis:** 9/16/2013
LCS 2 9/17/2013
LCS 3 SOIL 9/17/2013

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	37	to	158	80	102	98	Pass	Pass	Pass
1,1-Dichloroethene	52	to	147	93	136	118	Pass	Pass	Pass
Trans-1,2-Dichloroethene	51	to	148	90	124	107	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	to	142	98	104	99	Pass	Pass	Pass
Benzene	71	to	130	98	98	97	Pass	Pass	Pass
Trichloroethene	69	to	132	93	100	97	Pass	Pass	Pass
Toluene	70	to	134	96	98	97	Pass	Pass	Pass
Tetrachloroethene	58	to	145	88	99	95	Pass	Pass	Pass
Ethylbenzene	74	to	134	100	100	100	Pass	Pass	Pass
m,p-Xylene	70	to	146	123	120	119	Pass	Pass	Pass
o-Xylene	71	to	139	111	104	103	Pass	Pass	Pass
Isopropylbenzene(cumene)	80	to	138	116	110	107	Pass	Pass	Pass
n-Propylbenzene	76	to	136	109	100	100	Pass	Pass	Pass
1,3,5-Trimethylbenzene	75	to	133	107	116	111	Pass	Pass	Pass
tert-Butylbenzene	66	to	138	111	108	104	Pass	Pass	Pass
1,2,4-Trimethylbenzene	70	to	139	107	112	109	Pass	Pass	Pass
sec-Butylbenzene	73	to	126	119	117	113	Pass	Pass	Pass
p-Isopropyltoluene	65	to	142	117	117	113	Pass	Pass	Pass
n-Butylbenzene	73	to	128	111	113	113	Pass	Pass	Pass
Naphthalene	40	to	159	96	85	77	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: Rollins Economy Cleaners	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 13-103
Onsite Dates: 9/16/13-919/13	**Client Project Manager:** Timothy Klotz	**Matrix**: Water/Soil

Samples: LCS 4 **Date of Analysis:** 9/18/2013
LCS 5 SOIL 9/18/2013
LCS 6 SOIL 9/19/2013

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	37	to	158	107	89	73	Pass	Pass	Pass
1,1-Dichloroethene	52	to	147	140	117	119	Pass	Pass	Pass
Trans-1,2-Dichloroethene	51	to	148	134	110	110	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	to	142	117	102	105	Pass	Pass	Pass
Benzene	71	to	130	116	101	95	Pass	Pass	Pass
Trichloroethene	69	to	132	117	100	92	Pass	Pass	Pass
Toluene	70	to	134	114	101	94	Pass	Pass	Pass
Tetrachloroethene	58	to	145	114	100	87	Pass	Pass	Pass
Ethylbenzene	74	to	134	118	103	94	Pass	Pass	Pass
m,p-Xylene	70	to	146	139	124	116	Pass	Pass	Pass
o-Xylene	71	to	139	120	106	104	Pass	Pass	Pass
Isopropylbenzene(cumene)	80	to	138	126	111	109	Pass	Pass	Pass
n-Propylbenzene	76	to	136	117	106	104	Pass	Pass	Pass
1,3,5-Trimethylbenzene	75	to	133	128	115	101	Pass	Pass	Pass
tert-Butylbenzene	66	to	138	123	109	105	Pass	Pass	Pass
1,2,4-Trimethylbenzene	70	to	139	126	112	100	Pass	Pass	Pass
sec-Butylbenzene	73	to	126	131	118	114	> UCL	Pass	Pass
p-Isopropyltoluene	65	to	142	130	117	111	Pass	Pass	Pass
n-Butylbenzene	73	to	128	131	116	104	> UCL	Pass	Pass
Naphthalene	40	to	159	98	72	80	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 **Date of Analysis:** 9/19/2013

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7			LCS#7		
Vinyl Chloride	37	to	158	65			Pass		
1,1-Dichloroethene	52	to	147	91			Pass		
Trans-1,2-Dichloroethene	51	to	148	85			Pass		
Cis-1,2-Dichloroethene	59	to	142	93			Pass		
Benzene	71	to	130	94			Pass		
Trichloroethene	69	to	132	89			Pass		
Toluene	70	to	134	92			Pass		
Tetrachloroethene	58	to	145	84			Pass		
Ethylbenzene	74	to	134	93			Pass		
m,p-Xylene	70	to	146	115			Pass		
o-Xylene	71	to	139	103			Pass		
Isopropylbenzene(cumene)	80	to	138	108			Pass		
n-Propylbenzene	76	to	136	102			Pass		
1,3,5-Trimethylbenzene	75	to	133	100			Pass		
tert-Butylbenzene	66	to	138	104			Pass		
1,2,4-Trimethylbenzene	70	to	139	100			Pass		
sec-Butylbenzene	73	to	126	113			Pass		
p-Isopropyltoluene	65	to	142	111			Pass		
n-Butylbenzene	73	to	128	103			Pass		
Naphthalene	40	to	159	96			Pass		

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB Labs, Inc.
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Final Data Report

Hart-Hickman
Rollins Economy Cleaners
Raleigh, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB-7 2-3'	SB-7 5-6'	SB-8 2-3'	SB-8 5-6'	SB-9 2-3	SB-9 5-6'	SB-10 2-3	SB-10 3-4	SB-11 1-2'
Analysis Date	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/18/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution	1	1	20	40	20	20	40	20	1
% solids	**86.6**	**77.1**	**82.8**	**80.9**	**80.3**	**86.0**	**81.8**	**76.8**	**79.7**
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Vinyl Chloride	**0.009 J**	0.013 U	**0.53**	0.49 U	**1.1**	0.23 U	0.49 U	0.26 U	**0.005 J**
1,1-Dichloroethene	0.012 U	0.013 U	0.242 U	0.49 U	0.25 U	0.23 U	0.49 U	0.26 U	0.013 U
t-1,2-Dichloroethene	0.012 U	0.013 U	0.242 U	0.49 U	0.24 J	0.23 U	0.49 U	0.26 U	0.013 U
c-1,2-Dichloroethene	0.012 U	0.013 U	**0.34**	0.49 U	0.42	0.23 U	0.49 U	0.26 U	**0.013**
Benzene	0.012 U	0.013 U	0.242 U	0.49 U	0.50 U	0.23 U	0.49 U	0.26 U	0.013 U
Trichloroethene	0.012 U	0.013 U	0.242 U	0.49 U	0.50 U	0.23 U	0.49 U	0.26 U	0.01 U
Toluene	0.012 U	0.013 U	0.242 U	0.49 U	0.50 U	0.23 U	0.49 U	0.26 U	0.013 U
Tetrachloroethene	0.012 U	0.013 U	0.242 U	0.49 U	0.24 J	0.23 U	0.49 U	0.26 U	**0.025**
Ethylbenzene	0.012 U	**0.008 J**	**0.40**	**0.28 J**	**0.20** J	**0.14 J**	**0.98**	**0.091 J**	0.013 U
m,p-Xylene	0.023 U	**0.006 J**	**0.33 J**	**0.37 J**	**0.44** J	**0.12 J**	**0.67 J**	0.52 U	0.025 U
o-Xylene	0.012 U	0.013 U	**0.18 J**	0.49 U	**0.55**	**0.070 J**	**1.1**	0.26 U	0.013 U
Isopropylbenzene (Cumene)	**0.022**	**0.17**	**1.6**	**7.4**	**0.55**	**0.51**	**4.0**	**0.27**	0.013 U
n-Propylbenzene	**0.025**	**0.34**	**1.9**	**16**	**1.0**	**1.1**	**8.2**	**0.65**	0.013 U
1,3,5-Trimethylbenzene	0.012 U	0.013 U	**0.16 J**	0.49 U	**0.80**	**0.72**	**3.1**	0.26 U	0.013 U
tert-Butylbenzene	**0.052**	**0.11**	**1.2**	**6.6**	**1.0**	**0.29**	**2.6**	**0.16 J**	0.013 U
1,2,4-Trimethylbenzene	**0.005 J**	0.013 U	**0.45**	0.49 U	**2.6**	**1.5**	**29**	**0.23 J**	0.013 U
sec-Butylbenzene	**0.052**	**0.27**	**2.2**	**14**	**1.5**	**0.88**	**8.4**	**0.55**	0.013 U
p-Isopropyltoluene	0.012 U	0.013 U	**0.43**	0.49 U	**2.6**	**0.31**	**13**	**0.091 J**	0.013 U
n-Butylbenzene	**0.010 J**	**0.29**	**1.1 J**	**14**	**2.1**	**0.86 J**	**11**	**0.65 J**	0.063 U
Naphthalene	0.058 U	**0.006 J**	**0.35 J**	**0.26 J**	**0.71** J	**0.38 J**	**6.0**	**1.0 J**	0.063 U

Dry Weight Corrected Results
Soil Units: mg/kg-dry

KB Labs, Inc.
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Final Data Report

Hart-Hickman
Rollins Economy Cleaners
Raleigh, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB-11 4-5'	SB-12 2-3'	SB-12 3-4'	SB-13 2-3'	SB-13 3-4'	SB-14 2-3'	SB-15 2-3'	SB-15 3-4'	SB-16 1-2'
Analysis Date	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/17/2013	9/18/2013
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution	1	1	1	1	10	10	10	10	1
% solids	**79.3**	**78.6**	**75.2**	**94.0**	**85.4**	**82.7**	**81.4**	**77.9**	**78.2**
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Vinyl Chloride	**0.011 J**	0.013 U	0.013 U	0.011 U	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
1,1-Dichloroethene	0.013 U	0.013 U	0.013 U	0.011 U	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
t-1,2-Dichloroethene	0.013 U	0.013 U	0.013 U	0.011 U	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
c-1,2-Dichloroethene	**0.009 J**	0.013 U	0.013 U	0.011 U	**0.066 J**	0.12 U	0.12 U	0.13 U	**0.083**
Benzene	0.013 U	0.013 U	0.013 U	0.011 U	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
Trichloroethene	0.013 U	0.013 U	0.013 U	0.011 U	0.12 U	0.12 U	**0.075 J**	**0.060 J**	**0.073**
Toluene	0.013 U	0.013 U	0.013 U	0.011 U	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
Tetrachloroethene	0.013 U	0.013 U	0.013 U	**0.090**	**0.26**	**3.4**	**3.6**	**5.3**	**0.40**
Ethylbenzene	0.013 U	0.013 U	0.013 U	**0.006 J**	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
m,p-Xylene	0.025 U	0.025 U	0.027 U	**0.049**	0.23 U	0.24 U	0.25 U	0.26 U	0.026 U
o-Xylene	0.013 U	0.013 U	0.013 U	**0.019**	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
Isopropylbenzene (Cumene)	0.013 U	0.013 U	0.013 U	0.011 U	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
n-Propylbenzene	0.013 U	**0.005 J**	0.013 U	0.011 U	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
1,3,5-Trimethylbenzene	0.013 U	0.013 U	0.013 U	0.011 U	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
tert-Butylbenzene	**0.005 J**	**0.013**	0.013 U	0.011 U	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
1,2,4-Trimethylbenzene	0.013 U	**0.005 J**	0.013 U	0.011 U	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
sec-Butylbenzene	**0.006 J**	**0.010 J**	0.013 U	0.011 U	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
p-Isopropyltoluene	0.013 U	**0.022**	0.013 U	0.011 U	0.12 U	0.12 U	0.12 U	0.13 U	0.013 U
n-Butylbenzene	0.063 U	**0.011 J**	0.066 U	0.053 U	0.59 U	0.60 U	0.61 U	0.64 U	0.064 U
Naphthalene	0.063 U	**0.008 J**	0.066 U	0.053 U	0.59 U	0.60 U	0.61 U	0.64 U	0.064 U

Dry Weight Corrected Results
Soil Units: mg/kg-dry

KB Labs, Inc.
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Final Data Report

Hart-Hickman
Rollins Economy Cleaners
Raleigh, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB-16 4-5	SB-17 2-3'	SB-17 3-4'	SB-18 2-3'	SB-18 4-5	SB-20 1-2'	SB-20 3-4'	SB-21 2-3'	SB-21 3-4'
Analysis Date	9/18/2013	9/18/2013	9/18/2013	9/18/2013	9/18/2013	9/18/2013	9/18/2013	9/19/2013	9/19/2013
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution	40	40, 400	20, 200	1, 400	1, 20	40, 400	20	40	100
% solids	**76.7**	**76.5**	**83.9**	**87.4**	**85.2**	**86.7**	**86.7**	**78.0**	**83.9**
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Vinyl Chloride	0.52 U	0.52 U	0.24 U	0.011 U	**0.036**	0.46 U	0.23 U	0.51 U	1.2 U
1,1-Dichloroethene	0.52 U	0.52 U	0.24 U	0.011 U	0.012 U	0.46 U	0.23 U	0.51 U	1.2 U
t-1,2-Dichloroethene	0.52 U	0.52 U	0.24 U	**0.005 J**	**0.009 J**	0.46 U	0.23 U	0.51 U	**0.46 J**
c-1,2-Dichloroethene	**0.35 J**	**4.6**	**1.5**	**0.31**	**0.25**	**0.52**	**0.16 J**	**4.9**	**10**
Benzene	0.52 U	0.52 U	0.24 U	0.011 U	0.012 U	0.46 U	0.23 U	0.51 U	1.2 U
Trichloroethene	**0.26 J**	**13**	**4.1**	**0.21**	**0.13**	**1.4**	0.23 U	0.51 U	**0.73 J**
Toluene	0.52 U	0.52 U	0.24 U	0.011 U	0.012 U	0.46 U	0.23 U	0.51 U	1.2 U
Tetrachloroethene	**0.64**	**220**	**74**	**250**	**1.2**	**310**	**2.7**	**0.44 J**	**0.95 J**
Ethylbenzene	0.52 U	0.52 U	0.24 U	0.011 U	0.012 U	0.46 U	0.23 U	0.51 U	**0.45 J**
m,p-Xylene	0.52 U	1.0 U	0.48 U	0.023 U	0.023 U	0.92 U	0.46 U	1.0 U	**3.0**
o-Xylene	0.52 U	0.52 U	0.24 U	0.011 U	0.012 U	0.46 U	0.23 U	0.51 U	**3.1**
Isopropylbenzene (Cumene)	0.52 U	0.52 U	0.24 U	0.011 U	0.012 U	0.46 U	0.23 U	0.51 U	**3.0**
n-Propylbenzene	**0.23 J**	0.52 U	0.24 U	0.011 U	0.012 U	0.46 U	0.23 U	0.51 U	**9.2**
1,3,5-Trimethylbenzene	0.52 U	0.52 U	0.24 U	0.011 U	0.012 U	0.46 U	0.23 U	**0.60**	**49**
tert-Butylbenzene	**0.37 J**	0.52 U	0.24 U	0.011 U	0.012 U	0.46 U	0.23 U	0.51 U	**3.5**
1,2,4-Trimethylbenzene	0.52 U	0.52 U	0.24 U	0.011 U	0.012 U	0.46 U	0.23 U	**1.7**	**100**
sec-Butylbenzene	**0.51 J**	0.52 U	0.24 U	0.011 U	0.012 U	0.46 U	0.23 U	0.51 U	**11**
p-Isopropyltoluene	**0.16 J**	0.52 U	0.24 U	0.011 U	0.012 U	0.46 U	0.23 U	0.51 U	**17**
n-Butylbenzene	**0.37 J**	2.6 U	1.2 U	0.057 U	0.059 U	2.3 U	1.2 U	**0.18 J**	**20**
Naphthalene	**0.17 J**	2.6 U	1.2 U	0.057 U	0.059 U	2.3 U	1.2 U	2.6 U	**4.2 J**

Dry Weight Corrected Results
Soil Units: mg/kg-dry

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Final Data Report

Hart-Hickman
Rollins Economy Cleaners
Raleigh, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB-19 0-1'	SB-19 3-4'	SB-23 1-2'	SB-23 3-4	SB-22 0-1'	SB-22 3-4'	SB-24 2-3'	SB-24 4-5'	SB-25 2-3'
Analysis Date	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution	20	1	20	40	1	20	1	1	1
% solids	**91.8**	**85.0**	**83.7**	**75.8**	**82.1**	**81.6**	**76.7**	**79.9**	**88.3**
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Vinyl Chloride	0.22 U	**0.005 J**	**0.12 J**	0.53 U	**0.058**	**0.38**	0.013 U	0.013 U	0.011 U
1,1-Dichloroethene	0.22 U	0.012 U	0.24 U	0.53 U	0.012 U	0.25 U	0.013 U	0.013 U	0.011 U
t-1,2-Dichloroethene	0.22 U	0.012 U	**0.55**	0.53 U	**0.073**	**0.23 J**	0.013 U	0.013 U	**0.007 J**
c-1,2-Dichloroethene	**0.27**	**0.039**	**5.1**	**0.71** J	**0.15**	**2.1**	0.013 U	0.013 U	**0.097**
Benzene	0.22 U	0.012 U	0.24 U	0.53 U	0.012 U	0.25 U	0.013 U	0.013 U	0.011 U
Trichloroethene	0.22 U	**0.039**	0.24 U	0.53 U	**0.11**	0.25 U	0.013 U	**0.009 J**	**0.014**
Toluene	0.22 U	0.012 U	0.24 U	0.53 U	0.012 U	0.25 U	0.013 U	0.013 U	0.011 U
Tetrachloroethene	0.22 U	**0.005 J**	0.24 U	0.53 U	**0.30**	0.25 U	0.013 U	**0.050**	**0.066**
Ethylbenzene	0.22 U	0.012 U	0.24 U	0.53 U	0.012 U	**0.080 J**	0.013 U	0.013 U	0.011 U
m,p-Xylene	**0.078 J**	0.024 U	**0.30 J**	1.1 U	**0.010 J**	**0.17 J**	0.026 U	0.025 U	0.023 U
o-Xylene	0.22 U	0.012 U	**0.48**	0.53 U	**0.012 J**	**0.12 J**	0.013 U	0.013 U	0.011 U
Isopropylbenzene (Cumene)	0.22 U	0.012 U	**0.36**	0.53 U	**0.006 J**	**0.22 J**	0.013 U	0.013 U	0.011 U
n-Propylbenzene	0.22 U	0.012 U	**1.1**	0.53 U	**0.013**	**0.40**	0.013 U	0.013 U	0.011 U
1,3,5-Trimethylbenzene	0.22 U	0.012 U	**4.1**	0.53 U	**0.089**	**0.63**	0.013 U	0.013 U	0.011 U
tert-Butylbenzene	0.22 U	0.012 U	**1.2**	0.53 U	**0.013**	**0.15 J**	0.013 U	0.013 U	0.011 U
1,2,4-Trimethylbenzene	**0.14 J**	0.012 U	**12**	**0.32 J**	**0.18**	**1.7**	0.013 U	0.013 U	0.011 U
sec-Butylbenzene	0.22 U	0.012 U	**2.9**	**0.24 J**	**0.028**	**0.34**	0.013 U	0.013 U	0.011 U
p-Isopropyltoluene	0.22 U	0.012 U	**3.8**	0.53 U	**0.037**	**0.28**	0.013 U	0.013 U	0.011 U
n-Butylbenzene	1.1 U	0.059 U	**2.7**	**0.18 J**	**0.032 J**	**0.25 J**	0.065 U	0.063 U	0.057 U
Naphthalene	**0.068 J**	0.059 U	**0.098 J**	2.6 U	**0.005 J**	**0.29 J**	0.065 U	0.063 U	0.057 U

Dry Weight Corrected Results
Soil Units: mg/kg-dry

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Final Data Report

Hart-Hickman
Rollins Economy Cleaners
Raleigh, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB-25 4-5'	SB-26 2-3'	SB-26 4-5	SB-28 1-2'	SB-28 3-4'	SB-27 0-1'	SB-27 4-5'
Analysis Date	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution	1	1	1	20	1	1	20
% solids	**82.7**	**93.1**	**90.3**	**78.8**	**79.9**	**83.6**	**80.7**
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Vinyl Chloride	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
1,1-Dichloroethene	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
t-1,2-Dichloroethene	0.012 U	0.011 U	0.011 U	0.25 U	**0.004 J**	0.012 U	0.25 U
c-1,2-Dichloroethene	**0.042**	0.011 U	0.011 U	**0.44**	**0.024**	**0.011 J**	**0.73**
Benzene	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
Trichloroethene	**0.021**	0.011 U	0.011 U	**0.16 J**	**0.021**	**0.013**	**0.84**
Toluene	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
Tetrachloroethene	**0.15**	**0.006 J**	0.011 U	**6.2**	**0.41**	**0.20**	**16**
Ethylbenzene	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
m,p-Xylene	0.024 U	0.021 U	0.022 U	0.51 U	0.025 U	0.024 U	0.50 U
o-Xylene	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
Isopropylbenzene (Cumene)	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
n-Propylbenzene	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
1,3,5-Trimethylbenzene	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
tert-Butylbenzene	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
1,2,4-Trimethylbenzene	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
sec-Butylbenzene	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
p-Isopropyltoluene	0.012 U	0.011 U	0.011 U	0.25 U	0.013 U	0.012 U	0.25 U
n-Butylbenzene	0.060 U	0.054 U	0.055 U	1.3 U	0.063 U	0.060 U	1.2 U
Naphthalene	0.060 U	0.054 U	0.055 U	1.3 U	0.063 U	0.060 U	1.2 U

Dry Weight Corrected Results
Soil Units: mg/kg-dry

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Raleigh, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	TMW-7	TMW-8	TMW-9	TMW-10	TMW-12	TMW-11	TMW-13	TMW-14	SW-1
Analysis Date	9/16/2013	9/16/2013	9/16/2013	9/16/2013	9/16/2013	9/16/2013	9/17/2013	9/17/2013	9/17/2013
Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution	1, 10	1	1	20	10	1	200, 500	200	1
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Vinyl Chloride	**260**	**6.2**	**44.5**	**13 J**	**15**	**7.7**	200 U	200 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	20 U	10 U	1.0 U	200 U	200 U	1.0 U
t-1,2-Dichloroethene	**22.6**	**0.8 J**	**0.8 J**	20 U	10 U	**1.9**	200 U	200 U	1.0 U
c-1,2-Dichloroethene	**73.2**	**1.9**	**0.7 J**	20 U	**190**	**34.1**	**930**	**460**	1.0 U
Benzene	**0.5 J**	**1.2**	**7.0**	20 U	10 U	1.0 U	200 U	200 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U	20 U	**320**	**2.1**	**660**	**250**	1.0 U
Toluene	1.0 U	1.0 U	**0.5 J**	20 U	10 U	1.0 U	200 U	200 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	20 U	**120**	**6.8**	**27000**	**12000**	**0.36 J**
Ethylbenzene	1.0 U	**0.3 J**	**2.8**	20 U	10 U	1.0 U	200 U	200 U	1.0 U
m,p-Xylene	**0.5 J**	2.0 U	**1.3 J**	40 U	20 U	**1.5 J**	400 U	400 U	2.0 U
o-Xylene	**0.3 J**	**0.6 J**	**1.1**	20 U	10 U	**0.8 J**	200 U	200 U	1.0 U
Isopropylbenzene (Cumene)	**0.3 J**	**24.0**	**80.7**	**100**	10 U	**1.7**	200 U	200 U	1.0 U
n-Propylbenzene	1.0 U	**6.3**	**89.4**	**180**	10 U	**4.1**	200 U	200 U	1.0 U
1,3,5-Trimethylbenzene	1.0 U	1.0 U	**0.8 J**	20 U	10 U	1.0 U	200 U	200 U	1.0 U
tert-Butylbenzene	**2.4**	**28.6**	**28.8**	**30**	10 U	**4.7**	200 U	200 U	1.0 U
1,2,4-Trimethylbenzene	**0.3 J**	1.0 U	2.0	20 U	10 U	1.0 U	200 U	200 U	1.0 U
sec-Butylbenzene	**1.3**	**28.6**	**46.8**	**67**	10 U	**8.0**	200 U	200 U	1.0 U
p-Isopropyltoluene	1.0 U	1.0 U	1.0 U	20 U	10 U	1.0 U	200 U	200 U	1.0 U
n-Butylbenzene	5.0 U	**7.8**	**28.9**	**37 J**	50 U	**4.8 J**	1000 U	1000 U	5.0 U
Naphthalene	5.0 U	**0.6 J**	**1.5 J**	100 U	50 U	5.0 U	1000 U	1000 U	5.0 U

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Final Data Report

Hart-Hickman
Rollins Economy Cleaners
Raleigh, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	TMW-18	TMW-20	TMW-19	TMW-23	TMW-22	TMW-16	TMW-15	TMW-21	TMW-26
Analysis Date	9/18/2013	9/18/2013	9/18/2013	9/18/2013	9/18/2013	9/18/2013	9/18/2013	9/18/2013	9/18/2013
Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution	1	1	1	1	1	10	1, 20	500	5
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Vinyl Chloride	**0.95 J**	1.0 U	1.0 U	1.0 U	1.0 U	**59**	**1900**	500 U	**2.1 J**
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	500 U	5.0 U
t-1,2-Dichloroethene	1.0 U	1.0 U	**0.4 J**	1.0 U	1.0 U	**13**	**430**	**260 J**	**1.5 J**
c-1,2-Dichloroethene	1.0 U	**4.3**	**1.5**	1.0 U	**1.7**	**460**	**14.1**	**14000**	**3.6 J**
Benzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	**1.1**	500 U	5.0 U
Trichloroethene	1.0 U	**16.6**	**4.6**	1.0 U	**3.2**	**380**	**5.3**	**2200**	5.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	**2.7**	500 U	5.0 U
Tetrachloroethene	**0.39 J**	**28.5**	**57.7**	**1.3**	**7.3**	**180**	**38.4**	**36000**	**7.3**
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	**7.4**	500 U	5.0 U
m,p-Xylene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	**9.2**	1000 U	10 U
o-Xylene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	**8.2**	500 U	5.0 U
Isopropylbenzene (Cumene)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	**35.3**	500 U	5.0 U
n-Propylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	**29.6**	500 U	5.0 U
1,3,5-Trimethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	**4.2**	500 U	5.0 U
tert-Butylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	**18.8**	500 U	5.0 U
1,2,4-Trimethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	**16.9**	500 U	5.0 U
sec-Butylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	**32.6**	500 U	5.0 U
p-Isopropyltoluene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	**1.7**	500 U	5.0 U
n-Butylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	**20.2**	2500 U	25 U
Naphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	**11.6**	2500 U	25 U

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Final Data Report

Hart-Hickman
Rollins Economy Cleaners
Raleigh, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	TMW-24	TMW-25	TMW-27	TMW-28	TMW-30	TMW-29	TMW-31	TMW-32	TMW-33
Analysis Date	9/18/2013	9/18/2013	9/18/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013	9/19/2013
Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution	5	2	1	1	1	1	1	1	2
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Vinyl Chloride	**120**	2.0 U	1.0 U	**56.5**	**0.90 J**	1.0 U	1.0 U	1.0 U	2.0 U
1,1-Dichloroethene	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
t-1,2-Dichloroethene	**60**	2.0 U	1.0 U	**13.5**	**0.53 J**	1.0 U	1.0 U	1.0 U	1.5 J
c-1,2-Dichloroethene	**170**	2.0 U	1.0 U	**86.9**	**5.1**	**3.4**	1.0 U	**0.59 J**	**100**
Benzene	5.0 U	**4.3**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Trichloroethene	**14**	2.0 U	**2.0**	**1.5**	**1.9**	**3.2**	1.0 U	**0.81 J**	2.0 U
Toluene	5.0 U	**0.84 J**	1.0 U	1.0 U	**1.2**	1.0 U	**2.3**	**0.32 J**	2.0 U
Tetrachloroethene	**5.7**	**1.0 J**	**10.2**	**2.3**	**11.7**	**15.4**	**1.5**	**7.4**	1.4 U
Ethylbenzene	5.0 U	**2.2**	1.0 U	1.0 U	**1.0**	1.0 U	**1.8**	1.0 U	2.0 U
m,p-Xylene	10 U	2.0 U	2.0 U	2.0 U	**7.3**	2.0 U	**13.5**	**0.70 J**	4.0 U
o-Xylene	5.0 U	2.0 U	1.0 U	1.0 U	**2.9**	1.0 U	**5.6**	1.0 U	2.0 U
Isopropylbenzene (Cumene)	5.0 U	**99**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
n-Propylbenzene	5.0 U	**140**	**0.35 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,3,5-Trimethylbenzene	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
tert-Butylbenzene	5.0 U	**30**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2,4-Trimethylbenzene	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
sec-Butylbenzene	5.0 U	**49**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
p-Isopropyltoluene	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
n-Butylbenzene	25 U	**30**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Naphthalene	25 U	**1.6 J**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U

CHAIN-OF-CUSTODY RECORD

1/2

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Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT #

1982

CLIENT NAME: Hart & Hickman

PROJECT NAME & ADDRESS: Rollins Economy Cleaners Raleigh, NC

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260, TPH

SAMPLE FIELD ID\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260	TPH	COMMENT / SAMPLE PRE FIX (2091613)
TMW-7	9/6/13	0940			9/6/13	1505		GW	2	✓	—	01A,B
TMW-8		0950				1505		GW	2	✓	—	02A,B
TMW-9		1110				1505		GW	2	✓	—	03A,B
TMW-10		1155				1505		GW	2	✓	—	04A,B
TMW-12		1250				1505		GW	2	✓	—	05A,B
TMW-11		1305				1505		GW	2	✓	—	06A,B
SB-7 2-3		1015						S	1	✓	—	07A
SB-7 5-6		1020									—	08A
SB-8 2-3		1410									—	09A
SB-8 5-6		1415									—	10A
SB-9 2-3		1420									—	11A
SB-9 5-6		1425									—	12A
SB-10 2-3		1430									—	13A
SB-10 3-4		1435									—	14A
SB-11 1-2		1440									—	15A

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			
Relinquished by: (Signature)		Received by: (Signature) BH	9/10/13

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

Mobile Laboratory Services

CHAIN-OF-CUSTODY RECORD

2/2

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6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # KB2

CLIENT NAME: Hart & Hickman

PROJECT NAME & ADDRESS: Rollins Economy Cleaners, Raleigh, NC

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260	% Solids		Temp	COMMENT / SAMPLE PRE FIX 2091613
SB-11 4-5	9/16/13	1445			9/16/13	1505		S	1	✓	✓		—	16A

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* Bh Jr	Date / Time 9/16/13

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/2

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6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # KB2

CLIENT NAME: Hart & Hickman

PROJECT NAME & ADDRESS: Rollins Economy Cleaners Raleigh, NC

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260 / % solids / / Temp

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260	% solids		Temp	COMMENT / SAMPLE PRE FIX 2091713
TMW-13	9/17/13	0645			9/17/13	1105		GW	2	✓			–	01A,B
TMW-14		1020				1105		GW	2	✓			–	02A,B
SB-12 2-3	9/16/13	1500				1105		S	1	✓	✓		6.8	03A
SB-12 3-4	9/16/13	1505				1105		S	1	✓	✓		6.2	04A
SB-13 2-3	9/16/13	1520				1105		S	1	✓	✓		6.1	05A
SB-13 3-4	9/16/13	1530				1105		S	1	✓	✓		6.0	06A
SB-14 2-3	9/16/13	1550				1105		S	1	✓	✓		6.0	07A
SB-15 2-3	9/17/13	1000				1105		S	1	✓	✓		–	08A
SB-15 3-4		1005				1105		S	1	✓	✓		–	09A
SB-16 1-2		1100				1635		S	1	✓	✓		–	10A
SB-16 4-5		1105				1635		S	1	✓	✓		–	11A
SB-17 2-3		1140				1635		S	1	✓	✓		–	12A
SB-17 3-4		1145				1635		S	1	✓	✓		–	13A
SW-1		1200				1635		W	2	✓				14A,B
TMW-18		1415				1635		GW	2	✓				15A,B

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature) Bnf	Date / Time 9/17/13

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

Mobile Laboratory Services

CHAIN-OF-CUSTODY RECORD

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TEL (352) 367-0073 · FAX (352) 378-6491

6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT #: KB2

CLIENT NAME: Hart & Hickman

PROJECT NAME & ADDRESS: Rollins Economy Cleaners, Raleigh, NC

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260 | %solids | Temp

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260	%solids		Temp	COMMENT / SAMPLE PRE FIX 2091713
TMW-20	9/17/13	1445			9/17/13	1635		GW	2	✓			—	16A, B
TMW-19	⊥	1505			⊥	1635		GW	2	✓			—	17A, B

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature) BR	Date / Time 9/17/13

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (352) 367-0073 · FAX (352) 378-6491

6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # KR2

CLIENT NAME: Haupt & Hickman

PROJECT NAME & ADDRESS: Rollins Economy Cleaners Raleigh, NC

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260; % solids; 1-D GC

2091813

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260	% solids	1-D GC	COMMENT / SAMPLE PRE FIX
TMW-16	9/17/13	1640			9/18/13	1120		GW	2	✓		13.2	01A,B
TMW-15		1730				1120		GW	2	✓		13.2	02A,B
SB18 2-3		1710				1120		S	1	✓	✓	12.8	03A
SB18 4-5		1715				1120		S	1	✓	✓	12.8	04A
TMW-23	9/18/13	0950				1120		GW	2	✓		14.1	05A,B
TMW-22		1000				1120		GW	2	✓		14.1	06A,B
TMW-21		1130				1515		GW	2	✓		—	07A,B
TMW-26		1310				1515		GW	2	✓		—	08A,B
TMW-24		1330						GW	2	✓		—	09,A,B
TMW-25		1410						GW	2	✓		—	10A,B
TMW-27		1445						GW	2	✓		—	11A,B
SB-20 1-2		1115						S	1	✓	✓	—	12A
SB-20 3-4		1120						S	1	✓	✓	—	13A
SB-21 2-3		1200						S	1	✓	✓	—	14A
SB-21 3-4		1210						S	1	✓	✓	—	15A

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
		BH JK	9/18/13

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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TEL (352) 538-6507

CHAIN-OF-CUSTODY RECORD

2/2

MOBILE UNIT # KB2

CLIENT NAME: Hart & Hickman

PROJECT NAME & ADDRESS: Rollins Economy Cleaners, Raleigh, NC

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

209/1813

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260	% solid		Temp	COMMENT / SAMPLE PRE FIX
SB-19 0-1'	9/18/13				9/18/13	1575		S	1	✓	✓		-	16A
SB-19 3-4'	↓				↓	1575		S	1	✓	✓		-	17A

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature) Bh Jr	Date / Time 9/18/13

Remarks and Observations:

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/2

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6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # KB2

CLIENT NAME: Hart & Hickman

PROJECT NAME & ADDRESS: Rollins Economy Cleaners, Raleigh, NC

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO OF CONTAINERS

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260	% solid		Temp	COMMENT / SAMPLE PRE FIX 2091913
TMW-28	9/18/13	1545			9/19/13	1105		GW	2	✓			5.9	01A,B
TMW-30	9/19/13	1000				1105		GW	2	✓			17.1	02A,B
TMW-29	9/19/13	1040				1105		GW	2	✓			17.1	03A,B
SB-23 1-2	9/18/13	1600				1105		S	1	✓	✓		5.9	04A
SB-23 3-4		1605				1105		S	1	✓	✓		5.8	05A
SB-22 0-1		1625				1105		S	1	✓	✓		5.9	06A
SB-22 3-4		1630				1105		S	1	✓	✓		5.8	07A
SB-24 2-3	9/19/13	0920				1105		S	1	✓	✓		-	08A
SB-24 4-5		0925				1105		S	1	✓	✓		-	09A
SB-25 2-3		0940				1105		S	1	✓	✓		-	10A
SB-25 4-5		0945				1105		S	1	✓	✓		-	11A
SB-26 2-3		1050				1105		S	1	✓	✓		-	12A
SB-26 4-5		1055				1105		S	1	✓	✓		-	13A
TMW-31		1410				1635		GW	2	✓			8.7	14A,B
TMW-32		1430				1635		GW	2	✓			8.7	15A,B

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature) BDJ	Date / Time 9/19/13

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

2/2

KB Labs — Mobile Laboratory Services

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073 · FAX (352) 378-6491

6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # KB2

CLIENT NAME: Hunt & Hickman

PROJECT NAME & ADDRESS: Rollins Economy Cleaners, Raleigh, NC

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO OF CONTAINERS

2091913

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260	[illegible]		Temp	COMMENT / SAMPLE PRE FIX
TMW-33	9/19/13	1505			9/19/13	1635		GW	2	✓	·		10.2	16A,B
SB-28 1-2	|	1240			|	1635		S	1	✓	✓		–	17A
SB-28 3-4	|	1245			|	1635		S	1	✓	✓		–	18A
SB-27 0-1	|	1610			|	1635		S	1	✓	✓		–	19A
SB-27 4-5	⊥	1620			⊥	1635		S	1	✓	✓		–	20A

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature) [signature]	Date / Time 9/19/13

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-35939-1
TestAmerica Sample Delivery Group: DSO-79
Client Project/Site: Rollins Economy Cleaners

For:
Hart & Hickman, PC
3334 Hillsborough Street
Raleigh, North Carolina 27607

Attn: Timothy Klotz

Authorized for release by:
9/29/2013 1:32:10 PM

Ken Hayes, Project Manager I
(615)301-5035
ken.hayes@testamericainc.com

Table of Contents

Sample Summary

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-35939-1	SGMP-1 2-3'	Solid	09/20/13 15:46	09/21/13 08:40
490-35939-2	SGMP-1 4-5'	Solid	09/20/13 15:50	09/21/13 08:40
490-35939-3	SGMP-3 1-2'	Solid	09/20/13 15:55	09/21/13 08:40
490-35939-4	SGMP-3 3-4'	Solid	09/20/13 15:58	09/21/13 08:40
490-35939-5	SGMP-6 2-3'	Solid	09/20/13 16:05	09/21/13 08:40
490-35939-6	SGMP-6 3-4'	Solid	09/20/13 16:10	09/21/13 08:40
490-35939-7	SB-29 0-1'	Solid	09/20/13 15:40	09/21/13 08:40
490-35939-8	SB-29 3-4'	Solid	09/20/13 15:42	09/21/13 08:40

Job ID: 490-35939-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-35939-1

Comments
No additional comments.

Receipt
The samples were received on 9/21/2013 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.4° C.

Except:

The Chain of Custody was received without analysis selected.

GC/MS VOA
Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batches 109014 or 109254. See LCS/LCSD

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: SGMP-6 2-3' (490-35939-5), SGMP-6 3-4' (490-35939-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: SB-29 3-4' (490-35939-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: SB-29 3-4' (490-35939-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): SB-29 3-4' (490-35939-8).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-1 2-3'
Date Collected: 09/20/13 15:46
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-1
Matrix: Solid
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0677		0.0462		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Benzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Bromobenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Bromochloromethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Bromodichloromethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Bromoform	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Bromomethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
2-Butanone (MEK)	ND		0.0462		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Carbon disulfide	ND		0.00462		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Carbon tetrachloride	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Chlorobenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Chlorodibromomethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Chloroethane	ND		0.00462		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Chloroform	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Chloromethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
2-Chlorotoluene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
4-Chlorotoluene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
cis-1,2-Dichloroethene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
cis-1,3-Dichloropropene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,2-Dibromo-3-Chloropropane	ND		0.00462		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,2-Dibromoethane (EDB)	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Dibromomethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,2-Dichlorobenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,3-Dichlorobenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,4-Dichlorobenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Dichlorodifluoromethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,1-Dichloroethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,2-Dichloroethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,1-Dichloroethene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,2-Dichloroethene, Total	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,2-Dichloropropane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,3-Dichloropropane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
2,2-Dichloropropane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,1-Dichloropropene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Diisopropyl ether	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Ethylbenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Hexachlorobutadiene	ND		0.00462		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
2-Hexanone	ND		0.0462		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Isopropylbenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Methylene Chloride	ND		0.00924		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.0462		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Methyl tert-butyl ether	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Naphthalene	ND		0.00462		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
n-Butylbenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
N-Propylbenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
p-Isopropyltoluene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
sec-Butylbenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Styrene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
tert-Butylbenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-1 2-3'
Date Collected: 09/20/13 15:46
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-1
Matrix: Solid
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,1,2,2-Tetrachloroethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Tetrachloroethene	**0.00966**		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Toluene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
trans-1,2-Dichloroethene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
trans-1,3-Dichloropropene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,2,3-Trichlorobenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,2,4-Trichlorobenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,1,1-Trichloroethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,1,2-Trichloroethane	ND		0.00462		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Trichloroethene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Trichlorofluoromethane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,2,3-Trichloropropane	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,2,4-Trimethylbenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
1,3,5-Trimethylbenzene	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Vinyl chloride	ND		0.00185		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1
Xylenes, Total	ND		0.00277		mg/Kg	☼	09/23/13 10:08	09/24/13 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/23/13 10:08*	*09/24/13 15:06*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*09/23/13 10:08*	*09/24/13 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*09/23/13 10:08*	*09/24/13 15:06*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*	*09/23/13 10:08*	*09/24/13 15:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**82**		0.10		%			09/23/13 10:47	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-1 4-5'
Date Collected: 09/20/13 15:50
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-2
Matrix: Solid
Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0551		0.0398		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Benzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Bromobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Bromochloromethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Bromodichloromethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Bromoform	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Bromomethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
2-Butanone (MEK)	ND		0.0398		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Carbon disulfide	ND		0.00398		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Carbon tetrachloride	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Chlorobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Chlorodibromomethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Chloroethane	ND		0.00398		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Chloroform	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Chloromethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
2-Chlorotoluene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
4-Chlorotoluene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
cis-1,2-Dichloroethene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
cis-1,3-Dichloropropene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,2-Dibromo-3-Chloropropane	ND		0.00398		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,2-Dibromoethane (EDB)	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Dibromomethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,2-Dichlorobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,3-Dichlorobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,4-Dichlorobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Dichlorodifluoromethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,1-Dichloroethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,2-Dichloroethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,1-Dichloroethene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,2-Dichloroethene, Total	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,2-Dichloropropane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,3-Dichloropropane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
2,2-Dichloropropane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,1-Dichloropropene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Diisopropyl ether	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Ethylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Hexachlorobutadiene	ND		0.00398		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
2-Hexanone	ND		0.0398		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Isopropylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Methylene Chloride	ND		0.00796		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.0398		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Methyl tert-butyl ether	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Naphthalene	ND		0.00398		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
n-Butylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
N-Propylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
p-Isopropyltoluene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
sec-Butylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Styrene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
tert-Butylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-1 4-5'
Date Collected: 09/20/13 15:50
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-2
Matrix: Solid
Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,1,2,2-Tetrachloroethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Tetrachloroethene	**0.846**		0.0957		mg/Kg	☼	09/23/13 10:18	09/23/13 14:40	1
Toluene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
trans-1,2-Dichloroethene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
trans-1,3-Dichloropropene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,2,3-Trichlorobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,2,4-Trichlorobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,1,1-Trichloroethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,1,2-Trichloroethane	ND		0.00398		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Trichloroethene	**0.0102**		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Trichlorofluoromethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,2,3-Trichloropropane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,2,4-Trimethylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
1,3,5-Trimethylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Vinyl chloride	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1
Xylenes, Total	ND		0.00239		mg/Kg	☼	09/23/13 10:08	09/24/13 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/23/13 10:18*	*09/23/13 14:40*	*1*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/23/13 10:08*	*09/24/13 17:06*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*	*09/23/13 10:18*	*09/23/13 14:40*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*09/23/13 10:08*	*09/24/13 17:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*09/23/13 10:18*	*09/23/13 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*09/23/13 10:08*	*09/24/13 17:06*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*	*09/23/13 10:18*	*09/23/13 14:40*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*	*09/23/13 10:08*	*09/24/13 17:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**86**		0.10		%			09/23/13 10:47	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-3 1-2'
Date Collected: 09/20/13 15:55
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-3
Matrix: Solid
Percent Solids: 91.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0400		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Benzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Bromobenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Bromochloromethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Bromodichloromethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Bromoform	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Bromomethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
2-Butanone (MEK)	ND		0.0400		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Carbon disulfide	ND		0.00400		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Carbon tetrachloride	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Chlorobenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Chlorodibromomethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Chloroethane	ND		0.00400		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Chloroform	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Chloromethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
2-Chlorotoluene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
4-Chlorotoluene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
cis-1,2-Dichloroethene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
cis-1,3-Dichloropropene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,2-Dibromo-3-Chloropropane	ND		0.00400		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,2-Dibromoethane (EDB)	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Dibromomethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,2-Dichlorobenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,3-Dichlorobenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,4-Dichlorobenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Dichlorodifluoromethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,1-Dichloroethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,2-Dichloroethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,1-Dichloroethene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,2-Dichloroethene, Total	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,2-Dichloropropane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,3-Dichloropropane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
2,2-Dichloropropane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,1-Dichloropropene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Diisopropyl ether	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Ethylbenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Hexachlorobutadiene	ND		0.00400		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
2-Hexanone	ND		0.0400		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Isopropylbenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Methylene Chloride	ND		0.00801		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
4-Methyl-2-pentanone (MIBK)	ND		0.0400		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Methyl tert-butyl ether	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Naphthalene	ND		0.00400		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
n-Butylbenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
N-Propylbenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
p-Isopropyltoluene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
sec-Butylbenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Styrene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
tert-Butylbenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-3 1-2'
Date Collected: 09/20/13 15:55
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-3
Matrix: Solid
Percent Solids: 91.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,1,2,2-Tetrachloroethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Tetrachloroethene	**0.00509**		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Toluene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
trans-1,2-Dichloroethene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
trans-1,3-Dichloropropene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,2,3-Trichlorobenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,2,4-Trichlorobenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,1,1-Trichloroethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,1,2-Trichloroethane	ND		0.00400		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Trichloroethene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Trichlorofluoromethane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,2,3-Trichloropropane	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,2,4-Trimethylbenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
1,3,5-Trimethylbenzene	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Vinyl chloride	ND		0.00160		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1
Xylenes, Total	ND		0.00240		mg/Kg	☼	09/23/13 10:08	09/24/13 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*09/23/13 10:08*	*09/24/13 14:05*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*09/23/13 10:08*	*09/24/13 14:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*09/23/13 10:08*	*09/24/13 14:05*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*	*09/23/13 10:08*	*09/24/13 14:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**91**		0.10		%			09/23/13 10:47	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-3 3-4'
Date Collected: 09/20/13 15:58
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-4
Matrix: Solid
Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0545		0.0397		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Benzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Bromobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Bromochloromethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Bromodichloromethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Bromoform	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Bromomethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
2-Butanone (MEK)	ND		0.0397		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Carbon disulfide	ND		0.00397		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Carbon tetrachloride	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Chlorobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Chlorodibromomethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Chloroethane	ND		0.00397		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Chloroform	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Chloromethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
2-Chlorotoluene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
4-Chlorotoluene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
cis-1,2-Dichloroethene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
cis-1,3-Dichloropropene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,2-Dibromo-3-Chloropropane	ND		0.00397		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,2-Dibromoethane (EDB)	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Dibromomethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,2-Dichlorobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,3-Dichlorobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,4-Dichlorobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Dichlorodifluoromethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,1-Dichloroethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,2-Dichloroethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,1-Dichloroethene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,2-Dichloroethene, Total	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,2-Dichloropropane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,3-Dichloropropane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
2,2-Dichloropropane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,1-Dichloropropene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Diisopropyl ether	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Ethylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Hexachlorobutadiene	ND		0.00397		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
2-Hexanone	ND		0.0397		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Isopropylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Methylene Chloride	ND		0.00794		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
4-Methyl-2-pentanone (MIBK)	ND		0.0397		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Methyl tert-butyl ether	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Naphthalene	ND		0.00397		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
n-Butylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
N-Propylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
p-Isopropyltoluene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
sec-Butylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Styrene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
tert-Butylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-3 3-4'
Date Collected: 09/20/13 15:58
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-4
Matrix: Solid
Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,1,2,2-Tetrachloroethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Tetrachloroethene	**0.0252**		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Toluene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
trans-1,2-Dichloroethene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
trans-1,3-Dichloropropene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,2,3-Trichlorobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,2,4-Trichlorobenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,1,1-Trichloroethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,1,2-Trichloroethane	ND		0.00397		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Trichloroethene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Trichlorofluoromethane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,2,3-Trichloropropane	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,2,4-Trimethylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
1,3,5-Trimethylbenzene	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Vinyl chloride	ND		0.00159		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1
Xylenes, Total	ND		0.00238		mg/Kg	☼	09/23/13 10:08	09/27/13 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*09/23/13 10:08*	*09/27/13 12:27*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*09/23/13 10:08*	*09/27/13 12:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*	*09/23/13 10:08*	*09/27/13 12:27*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*09/23/13 10:08*	*09/27/13 12:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**84**		0.10		%			09/23/13 10:47	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-6 2-3'
Date Collected: 09/20/13 16:05
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-5
Matrix: Solid
Percent Solids: 76.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0454		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Benzene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Bromobenzene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Bromochloromethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Bromodichloromethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Bromoform	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Bromomethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
2-Butanone (MEK)	ND		0.0454		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Carbon disulfide	ND		0.00454		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Carbon tetrachloride	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Chlorobenzene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Chlorodibromomethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Chloroethane	ND		0.00454		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Chloroform	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Chloromethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
2-Chlorotoluene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
4-Chlorotoluene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
cis-1,2-Dichloroethene	**0.0287**		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
cis-1,3-Dichloropropene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,2-Dibromo-3-Chloropropane	ND		0.00454		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,2-Dibromoethane (EDB)	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Dibromomethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,2-Dichlorobenzene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,3-Dichlorobenzene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,4-Dichlorobenzene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Dichlorodifluoromethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,1-Dichloroethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,2-Dichloroethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,1-Dichloroethene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,2-Dichloroethene, Total	**0.0341**		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,2-Dichloropropane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,3-Dichloropropane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
2,2-Dichloropropane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,1-Dichloropropene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Diisopropyl ether	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Ethylbenzene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Hexachlorobutadiene	ND		0.00454		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
2-Hexanone	ND		0.0454		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Isopropylbenzene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Methylene Chloride	ND		0.00909		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		0.0454		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Methyl tert-butyl ether	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Naphthalene	ND		0.00454		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
n-Butylbenzene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
N-Propylbenzene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
p-Isopropyltoluene	**0.00382**		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
sec-Butylbenzene	**0.00968**		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Styrene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
tert-Butylbenzene	**0.0156**		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-6 2-3'
Date Collected: 09/20/13 16:05
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-5
Matrix: Solid
Percent Solids: 76.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,1,2,2-Tetrachloroethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Tetrachloroethene	**0.00333**		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Toluene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
trans-1,2-Dichloroethene	**0.00544**		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
trans-1,3-Dichloropropene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,2,3-Trichlorobenzene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,2,4-Trichlorobenzene	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,1,1-Trichloroethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,1,2-Trichloroethane	ND		0.00454		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Trichloroethene	**0.00954**		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Trichlorofluoromethane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,2,3-Trichloropropane	ND		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,2,4-Trimethylbenzene	**0.0115**		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
1,3,5-Trimethylbenzene	**0.00349**		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Vinyl chloride	**0.119**		0.00182		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1
Xylenes, Total	ND		0.00273		mg/Kg	☼	09/23/13 10:08	09/24/13 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*173*	*X*	*70 - 130*	*09/23/13 10:08*	*09/24/13 14:35*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*09/23/13 10:08*	*09/24/13 14:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*09/23/13 10:08*	*09/24/13 14:35*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*09/23/13 10:08*	*09/24/13 14:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**77**		0.10		%			09/23/13 10:47	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-6 3-4'
Date Collected: 09/20/13 16:10
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-6
Matrix: Solid
Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0407		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Benzene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Bromobenzene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Bromochloromethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Bromodichloromethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Bromoform	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Bromomethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
2-Butanone (MEK)	ND		0.0407		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Carbon disulfide	ND		0.00407		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Carbon tetrachloride	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Chlorobenzene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Chlorodibromomethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Chloroethane	ND		0.00407		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Chloroform	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Chloromethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
2-Chlorotoluene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
4-Chlorotoluene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
cis-1,2-Dichloroethene	**0.0101**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
cis-1,3-Dichloropropene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,2-Dibromo-3-Chloropropane	ND		0.00407		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,2-Dibromoethane (EDB)	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Dibromomethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,2-Dichlorobenzene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,3-Dichlorobenzene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,4-Dichlorobenzene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Dichlorodifluoromethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,1-Dichloroethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,2-Dichloroethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,1-Dichloroethene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,2-Dichloroethene, Total	**0.0101**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,2-Dichloropropane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,3-Dichloropropane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
2,2-Dichloropropane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,1-Dichloropropene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Diisopropyl ether	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Ethylbenzene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Hexachlorobutadiene	ND		0.00407		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
2-Hexanone	ND		0.0407		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Isopropylbenzene	**0.00231**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Methylene Chloride	ND		0.00815		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.0407		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Methyl tert-butyl ether	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Naphthalene	ND		0.00407		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
n-Butylbenzene	**0.00634**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
N-Propylbenzene	**0.00424**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
p-Isopropyltoluene	**0.00275**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
sec-Butylbenzene	**0.0165**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Styrene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
tert-Butylbenzene	**0.0178**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-6 3-4'
Date Collected: 09/20/13 16:10
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-6
Matrix: Solid
Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,1,2,2-Tetrachloroethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Tetrachloroethene	**0.0129**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Toluene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
trans-1,2-Dichloroethene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
trans-1,3-Dichloropropene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,2,3-Trichlorobenzene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,2,4-Trichlorobenzene	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,1,1-Trichloroethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,1,2-Trichloroethane	ND		0.00407		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Trichloroethene	**0.00788**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Trichlorofluoromethane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,2,3-Trichloropropane	ND		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,2,4-Trimethylbenzene	**0.0191**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
1,3,5-Trimethylbenzene	**0.00836**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Vinyl chloride	**0.0427**		0.00163		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1
Xylenes, Total	**0.00306**		0.00244		mg/Kg	☼	09/23/13 10:08	09/24/13 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*X*	*70 - 130*	*09/23/13 10:08*	*09/24/13 16:06*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*09/23/13 10:08*	*09/24/13 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*09/23/13 10:08*	*09/24/13 16:06*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*	*09/23/13 10:08*	*09/24/13 16:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**87**		0.10		%			09/23/13 10:47	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SB-29 0-1'
Date Collected: 09/20/13 15:40
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-7
Matrix: Solid
Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0516		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Benzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Bromobenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Bromochloromethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Bromodichloromethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Bromoform	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Bromomethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
2-Butanone (MEK)	ND		0.0516		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Carbon disulfide	ND		0.00516		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Carbon tetrachloride	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Chlorobenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Chlorodibromomethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Chloroethane	ND		0.00516		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Chloroform	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Chloromethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
2-Chlorotoluene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
4-Chlorotoluene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
cis-1,2-Dichloroethene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
cis-1,3-Dichloropropene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,2-Dibromo-3-Chloropropane	ND		0.00516		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,2-Dibromoethane (EDB)	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Dibromomethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,2-Dichlorobenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,3-Dichlorobenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,4-Dichlorobenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Dichlorodifluoromethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,1-Dichloroethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,2-Dichloroethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,1-Dichloroethene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,2-Dichloroethene, Total	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,2-Dichloropropane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,3-Dichloropropane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
2,2-Dichloropropane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,1-Dichloropropene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Diisopropyl ether	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Ethylbenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Hexachlorobutadiene	ND		0.00516		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
2-Hexanone	ND		0.0516		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Isopropylbenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Methylene Chloride	ND		0.0103		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
4-Methyl-2-pentanone (MIBK)	ND		0.0516		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Methyl tert-butyl ether	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Naphthalene	ND		0.00516		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
n-Butylbenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
N-Propylbenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
p-Isopropyltoluene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
sec-Butylbenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Styrene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
tert-Butylbenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SB-29 0-1'
Date Collected: 09/20/13 15:40
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-7
Matrix: Solid
Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,1,2,2-Tetrachloroethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Tetrachloroethene	**0.0156**		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Toluene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
trans-1,2-Dichloroethene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
trans-1,3-Dichloropropene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,2,3-Trichlorobenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,2,4-Trichlorobenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,1,1-Trichloroethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,1,2-Trichloroethane	ND		0.00516		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Trichloroethene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Trichlorofluoromethane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,2,3-Trichloropropane	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,2,4-Trimethylbenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
1,3,5-Trimethylbenzene	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Vinyl chloride	ND		0.00206		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1
Xylenes, Total	ND		0.00309		mg/Kg	☼	09/23/13 10:08	09/24/13 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/23/13 10:08*	*09/24/13 16:36*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*09/23/13 10:08*	*09/24/13 16:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*09/23/13 10:08*	*09/24/13 16:36*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*	*09/23/13 10:08*	*09/24/13 16:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**81**		0.10		%			09/23/13 10:47	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SB-29 3-4'
Date Collected: 09/20/13 15:42
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-8
Matrix: Solid
Percent Solids: 83.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0564		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Benzene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Bromobenzene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
Bromochloromethane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Bromodichloromethane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Bromoform	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Bromomethane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
2-Butanone (MEK)	ND		0.0564		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Carbon disulfide	ND		0.00564		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Carbon tetrachloride	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Chlorobenzene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Chlorodibromomethane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Chloroethane	ND		0.00564		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Chloroform	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Chloromethane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
2-Chlorotoluene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
4-Chlorotoluene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
cis-1,2-Dichloroethene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
cis-1,3-Dichloropropene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,2-Dibromo-3-Chloropropane	ND		0.338		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
1,2-Dibromoethane (EDB)	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Dibromomethane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,2-Dichlorobenzene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
1,3-Dichlorobenzene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
1,4-Dichlorobenzene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
Dichlorodifluoromethane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,1-Dichloroethane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,2-Dichloroethane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,1-Dichloroethene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,2-Dichloroethene, Total	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,2-Dichloropropane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,3-Dichloropropane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
2,2-Dichloropropane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,1-Dichloropropene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Diisopropyl ether	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Ethylbenzene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Hexachlorobutadiene	ND		0.338		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
2-Hexanone	ND		0.0564		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Isopropylbenzene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Methylene Chloride	ND		0.0113		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
4-Methyl-2-pentanone (MIBK)	ND		0.0564		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Methyl tert-butyl ether	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Naphthalene	ND		0.338		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
n-Butylbenzene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
N-Propylbenzene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
p-Isopropyltoluene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
sec-Butylbenzene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
Styrene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
tert-Butylbenzene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SB-29 3-4'
Date Collected: 09/20/13 15:42
Date Received: 09/21/13 08:40

Lab Sample ID: 490-35939-8
Matrix: Solid
Percent Solids: 83.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,1,2,2-Tetrachloroethane	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
Tetrachloroethene	**0.139**		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Toluene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
trans-1,2-Dichloroethene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
trans-1,3-Dichloropropene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,2,3-Trichlorobenzene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
1,2,4-Trichlorobenzene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
1,1,1-Trichloroethane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,1,2-Trichloroethane	ND		0.00564		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Trichloroethene	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Trichlorofluoromethane	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
1,2,3-Trichloropropane	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
1,2,4-Trimethylbenzene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
1,3,5-Trimethylbenzene	ND		0.135		mg/Kg	☼	09/23/13 10:18	09/23/13 17:43	1
Vinyl chloride	ND		0.00225		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1
Xylenes, Total	ND		0.00338		mg/Kg	☼	09/23/13 10:08	09/27/13 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/23/13 10:18*	*09/23/13 17:43*	*1*
4-Bromofluorobenzene (Surr)	*143*	*X*	*70 - 130*	*09/23/13 10:08*	*09/27/13 12:57*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*	*09/23/13 10:18*	*09/23/13 17:43*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*09/23/13 10:08*	*09/27/13 12:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*09/23/13 10:18*	*09/23/13 17:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*	*09/23/13 10:08*	*09/27/13 12:57*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*	*09/23/13 10:18*	*09/23/13 17:43*	*1*
Toluene-d8 (Surr)	*123*		*70 - 130*	*09/23/13 10:08*	*09/27/13 12:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**84**		0.10		%			09/23/13 10:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-109014/7
Matrix: Solid
Analysis Batch: 109014

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/Kg			09/23/13 12:10	1
Benzene	ND		0.100		mg/Kg			09/23/13 12:10	1
Bromobenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
Bromochloromethane	ND		0.100		mg/Kg			09/23/13 12:10	1
Bromodichloromethane	ND		0.100		mg/Kg			09/23/13 12:10	1
Bromoform	ND		0.100		mg/Kg			09/23/13 12:10	1
Bromomethane	ND		0.100		mg/Kg			09/23/13 12:10	1
2-Butanone (MEK)	ND		2.50		mg/Kg			09/23/13 12:10	1
Carbon disulfide	ND		0.250		mg/Kg			09/23/13 12:10	1
Carbon tetrachloride	ND		0.100		mg/Kg			09/23/13 12:10	1
Chlorobenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
Chlorodibromomethane	ND		0.100		mg/Kg			09/23/13 12:10	1
Chloroethane	ND		0.250		mg/Kg			09/23/13 12:10	1
Chloroform	ND		0.100		mg/Kg			09/23/13 12:10	1
Chloromethane	ND		0.100		mg/Kg			09/23/13 12:10	1
2-Chlorotoluene	ND		0.100		mg/Kg			09/23/13 12:10	1
4-Chlorotoluene	ND		0.100		mg/Kg			09/23/13 12:10	1
cis-1,2-Dichloroethene	ND		0.100		mg/Kg			09/23/13 12:10	1
cis-1,3-Dichloropropene	ND		0.100		mg/Kg			09/23/13 12:10	1
1,2-Dibromo-3-Chloropropane	ND		0.250		mg/Kg			09/23/13 12:10	1
1,2-Dibromoethane (EDB)	ND		0.100		mg/Kg			09/23/13 12:10	1
Dibromomethane	ND		0.100		mg/Kg			09/23/13 12:10	1
1,2-Dichlorobenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
1,3-Dichlorobenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
1,4-Dichlorobenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
Dichlorodifluoromethane	ND		0.100		mg/Kg			09/23/13 12:10	1
1,1-Dichloroethane	ND		0.100		mg/Kg			09/23/13 12:10	1
1,2-Dichloroethane	ND		0.100		mg/Kg			09/23/13 12:10	1
1,1-Dichloroethene	ND		0.100		mg/Kg			09/23/13 12:10	1
1,2-Dichloroethene, Total	ND		0.100		mg/Kg			09/23/13 12:10	1
1,2-Dichloropropane	ND		0.100		mg/Kg			09/23/13 12:10	1
1,3-Dichloropropane	ND		0.100		mg/Kg			09/23/13 12:10	1
2,2-Dichloropropane	ND		0.100		mg/Kg			09/23/13 12:10	1
1,1-Dichloropropene	ND		0.100		mg/Kg			09/23/13 12:10	1
Diisopropyl ether	ND		0.100		mg/Kg			09/23/13 12:10	1
Ethylbenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
Hexachlorobutadiene	ND		0.250		mg/Kg			09/23/13 12:10	1
2-Hexanone	ND		2.50		mg/Kg			09/23/13 12:10	1
Isopropylbenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
Methylene Chloride	ND		0.500		mg/Kg			09/23/13 12:10	1
4-Methyl-2-pentanone (MIBK)	ND		2.50		mg/Kg			09/23/13 12:10	1
Methyl tert-butyl ether	ND		0.100		mg/Kg			09/23/13 12:10	1
Naphthalene	ND		0.250		mg/Kg			09/23/13 12:10	1
n-Butylbenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
N-Propylbenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
p-Isopropyltoluene	ND		0.100		mg/Kg			09/23/13 12:10	1
sec-Butylbenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
Styrene	ND		0.100		mg/Kg			09/23/13 12:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-109014/7
Matrix: Solid
Analysis Batch: 109014

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
1,1,1,2-Tetrachloroethane	ND		0.100		mg/Kg			09/23/13 12:10	1
1,1,2,2-Tetrachloroethane	ND		0.100		mg/Kg			09/23/13 12:10	1
Tetrachloroethene	ND		0.100		mg/Kg			09/23/13 12:10	1
Toluene	ND		0.100		mg/Kg			09/23/13 12:10	1
trans-1,2-Dichloroethene	ND		0.100		mg/Kg			09/23/13 12:10	1
trans-1,3-Dichloropropene	ND		0.100		mg/Kg			09/23/13 12:10	1
1,2,3-Trichlorobenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
1,2,4-Trichlorobenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
1,1,1-Trichloroethane	ND		0.100		mg/Kg			09/23/13 12:10	1
1,1,2-Trichloroethane	ND		0.250		mg/Kg			09/23/13 12:10	1
Trichloroethene	ND		0.100		mg/Kg			09/23/13 12:10	1
Trichlorofluoromethane	ND		0.100		mg/Kg			09/23/13 12:10	1
1,2,3-Trichloropropane	ND		0.100		mg/Kg			09/23/13 12:10	1
1,2,4-Trimethylbenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
1,3,5-Trimethylbenzene	ND		0.100		mg/Kg			09/23/13 12:10	1
Vinyl chloride	ND		0.100		mg/Kg			09/23/13 12:10	1
Xylenes, Total	ND		0.150		mg/Kg			09/23/13 12:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/23/13 12:10*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/23/13 12:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*09/23/13 12:10*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*09/23/13 12:10*	*1*

Lab Sample ID: LCS 490-109014/4
Matrix: Solid
Analysis Batch: 109014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.250	0.2504		mg/Kg		100	51 - 149
Benzene	0.0500	0.05200		mg/Kg		104	75 - 127
Bromobenzene	0.0500	0.04685		mg/Kg		94	75 - 130
Bromochloromethane	0.0500	0.05335		mg/Kg		107	70 - 132
Bromodichloromethane	0.0500	0.05047		mg/Kg		101	68 - 135
Bromoform	0.0500	0.04877		mg/Kg		98	36 - 150
Bromomethane	0.0500	0.04972		mg/Kg		99	43 - 142
2-Butanone (MEK)	0.250	0.2451		mg/Kg		98	61 - 132
Carbon disulfide	0.0500	0.05017		mg/Kg		100	74 - 135
Carbon tetrachloride	0.0500	0.05294		mg/Kg		106	70 - 141
Chlorobenzene	0.0500	0.04962		mg/Kg		99	84 - 125
Chlorodibromomethane	0.0500	0.04929		mg/Kg		99	66 - 134
Chloroethane	0.0500	0.05608		mg/Kg		112	53 - 144
Chloroform	0.0500	0.05061		mg/Kg		101	76 - 130
Chloromethane	0.0500	0.04804		mg/Kg		96	23 - 150
2-Chlorotoluene	0.0500	0.04666		mg/Kg		93	78 - 132
4-Chlorotoluene	0.0500	0.04861		mg/Kg		97	77 - 138
cis-1,2-Dichloroethene	0.0500	0.05291		mg/Kg		106	75 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-109014/4
Matrix: Solid
Analysis Batch: 109014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	0.0500	0.05506		mg/Kg		110	73 - 148
1,2-Dibromo-3-Chloropropane	0.0500	0.04405		mg/Kg		88	49 - 142
1,2-Dibromoethane (EDB)	0.0500	0.04895		mg/Kg		98	80 - 135
Dibromomethane	0.0500	0.05004		mg/Kg		100	71 - 130
1,2-Dichlorobenzene	0.0500	0.04917		mg/Kg		98	80 - 134
1,3-Dichlorobenzene	0.0500	0.04859		mg/Kg		97	79 - 137
1,4-Dichlorobenzene	0.0500	0.04798		mg/Kg		96	77 - 139
Dichlorodifluoromethane	0.0500	0.04928		mg/Kg		99	12 - 144
1,1-Dichloroethane	0.0500	0.05119		mg/Kg		102	75 - 124
1,2-Dichloroethane	0.0500	0.05244		mg/Kg		105	65 - 134
1,1-Dichloroethene	0.0500	0.05115		mg/Kg		102	75 - 131
1,2-Dichloroethene, Total	0.100	0.1061		mg/Kg		106	75 - 128
1,2-Dichloropropane	0.0500	0.05181		mg/Kg		104	69 - 120
1,3-Dichloropropane	0.0500	0.04930		mg/Kg		99	78 - 126
2,2-Dichloropropane	0.0500	0.05063		mg/Kg		101	68 - 145
1,1-Dichloropropene	0.0500	0.05260		mg/Kg		105	79 - 127
Diisopropyl ether	0.0500	0.05233		mg/Kg		105	68 - 124
Ethylbenzene	0.0500	0.04882		mg/Kg		98	80 - 134
Hexachlorobutadiene	0.0500	0.04629		mg/Kg		93	65 - 148
2-Hexanone	0.250	0.2373		mg/Kg		95	57 - 148
Isopropylbenzene	0.0500	0.05039		mg/Kg		101	80 - 150
Methylene Chloride	0.0500	0.04946		mg/Kg		99	68 - 144
4-Methyl-2-pentanone (MIBK)	0.250	0.2633		mg/Kg		105	59 - 138
Methyl tert-butyl ether	0.0500	0.05060		mg/Kg		101	70 - 136
Naphthalene	0.0500	0.04445		mg/Kg		89	69 - 150
n-Butylbenzene	0.0500	0.04854		mg/Kg		97	72 - 152
N-Propylbenzene	0.0500	0.04717		mg/Kg		94	75 - 137
p-Isopropyltoluene	0.0500	0.04823		mg/Kg		96	77 - 141
sec-Butylbenzene	0.0500	0.04722		mg/Kg		94	79 - 141
Styrene	0.0500	0.05215		mg/Kg		104	82 - 137
tert-Butylbenzene	0.0500	0.04679		mg/Kg		94	80 - 132
1,1,1,2-Tetrachloroethane	0.0500	0.04879		mg/Kg		98	80 - 136
1,1,2,2-Tetrachloroethane	0.0500	0.04460		mg/Kg		89	66 - 134
Tetrachloroethene	0.0500	0.05055		mg/Kg		101	78 - 140
Toluene	0.0500	0.05010		mg/Kg		100	80 - 132
trans-1,2-Dichloroethene	0.0500	0.05317		mg/Kg		106	76 - 128
trans-1,3-Dichloropropene	0.0500	0.04855		mg/Kg		97	62 - 139
1,2,3-Trichlorobenzene	0.0500	0.04807		mg/Kg		96	70 - 150
1,2,4-Trichlorobenzene	0.0500	0.04874		mg/Kg		97	62 - 150
1,1,1-Trichloroethane	0.0500	0.05241		mg/Kg		105	72 - 140
1,1,2-Trichloroethane	0.0500	0.04641		mg/Kg		93	78 - 128
Trichloroethene	0.0500	0.05383		mg/Kg		108	77 - 127
Trichlorofluoromethane	0.0500	0.05267		mg/Kg		105	50 - 140
1,2,3-Trichloropropane	0.0500	0.04318		mg/Kg		86	65 - 139
1,2,4-Trimethylbenzene	0.0500	0.04656		mg/Kg		93	77 - 139
1,3,5-Trimethylbenzene	0.0500	0.04729		mg/Kg		95	78 - 138
Vinyl chloride	0.0500	0.04928		mg/Kg		99	47 - 136
Xylenes, Total	0.100	0.09721		mg/Kg		97	80 - 137

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-109014/4
Matrix: Solid
Analysis Batch: 109014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 490-109014/5
Matrix: Solid
Analysis Batch: 109014

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.250	0.2469		mg/Kg		99	51 - 149	1	50
Benzene			0.0500	0.05272		mg/Kg		105	75 - 127	1	50
Bromobenzene			0.0500	0.04801		mg/Kg		96	75 - 130	2	50
Bromochloromethane			0.0500	0.05458		mg/Kg		109	70 - 132	2	50
Bromodichloromethane			0.0500	0.05129		mg/Kg		103	68 - 135	2	50
Bromoform			0.0500	0.04977		mg/Kg		100	36 - 150	2	50
Bromomethane			0.0500	0.05178		mg/Kg		104	43 - 142	4	50
2-Butanone (MEK)			0.250	0.2535		mg/Kg		101	61 - 132	3	50
Carbon disulfide			0.0500	0.05153		mg/Kg		103	74 - 135	3	50
Carbon tetrachloride			0.0500	0.05327		mg/Kg		107	70 - 141	1	50
Chlorobenzene			0.0500	0.05094		mg/Kg		102	84 - 125	3	50
Chlorodibromomethane			0.0500	0.05004		mg/Kg		100	66 - 134	2	50
Chloroethane			0.0500	0.05680		mg/Kg		114	53 - 144	1	50
Chloroform			0.0500	0.05121		mg/Kg		102	76 - 130	1	49
Chloromethane			0.0500	0.04754		mg/Kg		95	23 - 150	1	50
2-Chlorotoluene			0.0500	0.04769		mg/Kg		95	78 - 132	2	50
4-Chlorotoluene			0.0500	0.05001		mg/Kg		100	77 - 138	3	50
cis-1,2-Dichloroethene			0.0500	0.05382		mg/Kg		108	75 - 125	2	50
cis-1,3-Dichloropropene			0.0500	0.05628		mg/Kg		113	73 - 148	2	50
1,2-Dibromo-3-Chloropropane			0.0500	0.04530		mg/Kg		91	49 - 142	3	50
1,2-Dibromoethane (EDB)			0.0500	0.04960		mg/Kg		99	80 - 135	1	50
Dibromomethane			0.0500	0.05237		mg/Kg		105	71 - 130	5	50
1,2-Dichlorobenzene			0.0500	0.05039		mg/Kg		101	80 - 134	2	50
1,3-Dichlorobenzene			0.0500	0.04975		mg/Kg		99	79 - 137	2	50
1,4-Dichlorobenzene			0.0500	0.04928		mg/Kg		99	77 - 139	3	50
Dichlorodifluoromethane			0.0500	0.05063		mg/Kg		101	12 - 144	3	50
1,1-Dichloroethane			0.0500	0.05385		mg/Kg		108	75 - 124	5	50
1,2-Dichloroethane			0.0500	0.05338		mg/Kg		107	65 - 134	2	50
1,1-Dichloroethene			0.0500	0.05166		mg/Kg		103	75 - 131	1	50
1,2-Dichloroethene, Total			0.100	0.1077		mg/Kg		108	75 - 128	2	41
1,2-Dichloropropane			0.0500	0.05319		mg/Kg		106	69 - 120	3	50
1,3-Dichloropropane			0.0500	0.05044		mg/Kg		101	78 - 126	2	42
2,2-Dichloropropane			0.0500	0.05075		mg/Kg		101	68 - 145	0	50
1,1-Dichloropropene			0.0500	0.05310		mg/Kg		106	79 - 127	1	50
Diisopropyl ether			0.0500	0.05297		mg/Kg		106	68 - 124	1	45
Ethylbenzene			0.0500	0.04987		mg/Kg		100	80 - 134	2	50
Hexachlorobutadiene			0.0500	0.04851		mg/Kg		97	65 - 148	5	50
2-Hexanone			0.250	0.2426		mg/Kg		97	57 - 148	2	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-109014/5
Matrix: Solid
Analysis Batch: 109014

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene			0.0500	0.05171		mg/Kg		103	80 - 150	3	50
Methylene Chloride			0.0500	0.05004		mg/Kg		100	68 - 144	1	50
4-Methyl-2-pentanone (MIBK)			0.250	0.2704		mg/Kg		108	59 - 138	3	50
Methyl tert-butyl ether			0.0500	0.05214		mg/Kg		104	70 - 136	3	50
Naphthalene			0.0500	0.04645		mg/Kg		93	69 - 150	4	50
n-Butylbenzene			0.0500	0.05050		mg/Kg		101	72 - 152	4	50
N-Propylbenzene			0.0500	0.04823		mg/Kg		96	75 - 137	2	50
p-Isopropyltoluene			0.0500	0.04942		mg/Kg		99	77 - 141	2	50
sec-Butylbenzene			0.0500	0.04898		mg/Kg		98	79 - 141	4	50
Styrene			0.0500	0.05325		mg/Kg		106	82 - 137	2	50
tert-Butylbenzene			0.0500	0.04876		mg/Kg		98	80 - 132	4	50
1,1,1,2-Tetrachloroethane			0.0500	0.05012		mg/Kg		100	80 - 136	3	50
1,1,2,2-Tetrachloroethane			0.0500	0.04708		mg/Kg		94	66 - 134	5	50
Tetrachloroethene			0.0500	0.05211		mg/Kg		104	78 - 140	3	50
Toluene			0.0500	0.05104		mg/Kg		102	80 - 132	2	50
trans-1,2-Dichloroethene			0.0500	0.05387		mg/Kg		108	76 - 128	1	50
trans-1,3-Dichloropropene			0.0500	0.04998		mg/Kg		100	62 - 139	3	50
1,2,3-Trichlorobenzene			0.0500	0.05053		mg/Kg		101	70 - 150	5	50
1,2,4-Trichlorobenzene			0.0500	0.05074		mg/Kg		101	62 - 150	4	50
1,1,1-Trichloroethane			0.0500	0.05303		mg/Kg		106	72 - 140	1	50
1,1,2-Trichloroethane			0.0500	0.04711		mg/Kg		94	78 - 128	1	50
Trichloroethene			0.0500	0.05530		mg/Kg		111	77 - 127	3	50
Trichlorofluoromethane			0.0500	0.05412		mg/Kg		108	50 - 140	3	50
1,2,3-Trichloropropane			0.0500	0.04383		mg/Kg		88	65 - 139	1	50
1,2,4-Trimethylbenzene			0.0500	0.04747		mg/Kg		95	77 - 139	2	50
1,3,5-Trimethylbenzene			0.0500	0.04873		mg/Kg		97	78 - 138	3	50
Vinyl chloride			0.0500	0.04990		mg/Kg		100	47 - 136	1	50
Xylenes, Total			0.100	0.1004		mg/Kg		100	80 - 137	3	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 490-109254/7
Matrix: Solid
Analysis Batch: 109254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/Kg			09/24/13 12:04	1
Benzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
Bromobenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
Bromochloromethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
Bromodichloromethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
Bromoform	ND		0.00200		mg/Kg			09/24/13 12:04	1
Bromomethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
2-Butanone (MEK)	ND		0.0500		mg/Kg			09/24/13 12:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-109254/7
Matrix: Solid
Analysis Batch: 109254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		0.00500		mg/Kg			09/24/13 12:04	1
Carbon tetrachloride	ND		0.00200		mg/Kg			09/24/13 12:04	1
Chlorobenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
Chlorodibromomethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
Chloroethane	ND		0.00500		mg/Kg			09/24/13 12:04	1
Chloroform	ND		0.00200		mg/Kg			09/24/13 12:04	1
Chloromethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
2-Chlorotoluene	ND		0.00200		mg/Kg			09/24/13 12:04	1
4-Chlorotoluene	ND		0.00200		mg/Kg			09/24/13 12:04	1
cis-1,2-Dichloroethene	ND		0.00200		mg/Kg			09/24/13 12:04	1
cis-1,3-Dichloropropene	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,2-Dibromo-3-Chloropropane	ND		0.00500		mg/Kg			09/24/13 12:04	1
1,2-Dibromoethane (EDB)	ND		0.00200		mg/Kg			09/24/13 12:04	1
Dibromomethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,2-Dichlorobenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,3-Dichlorobenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,4-Dichlorobenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
Dichlorodifluoromethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,1-Dichloroethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,1-Dichloroethene	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,2-Dichloroethene, Total	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,2-Dichloropropane	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,3-Dichloropropane	ND		0.00200		mg/Kg			09/24/13 12:04	1
2,2-Dichloropropane	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,1-Dichloropropene	ND		0.00200		mg/Kg			09/24/13 12:04	1
Diisopropyl ether	ND		0.00200		mg/Kg			09/24/13 12:04	1
Ethylbenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
Hexachlorobutadiene	ND		0.00500		mg/Kg			09/24/13 12:04	1
2-Hexanone	ND		0.0500		mg/Kg			09/24/13 12:04	1
Isopropylbenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
Methylene Chloride	ND		0.0100		mg/Kg			09/24/13 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500		mg/Kg			09/24/13 12:04	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			09/24/13 12:04	1
Naphthalene	ND		0.00500		mg/Kg			09/24/13 12:04	1
n-Butylbenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
N-Propylbenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
p-Isopropyltoluene	ND		0.00200		mg/Kg			09/24/13 12:04	1
sec-Butylbenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
Styrene	ND		0.00200		mg/Kg			09/24/13 12:04	1
tert-Butylbenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
Tetrachloroethene	ND		0.00200		mg/Kg			09/24/13 12:04	1
Toluene	ND		0.00200		mg/Kg			09/24/13 12:04	1
trans-1,2-Dichloroethene	ND		0.00200		mg/Kg			09/24/13 12:04	1
trans-1,3-Dichloropropene	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,2,3-Trichlorobenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-109254/7
Matrix: Solid
Analysis Batch: 109254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,1,1-Trichloroethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,1,2-Trichloroethane	ND		0.00500		mg/Kg			09/24/13 12:04	1
Trichloroethene	ND		0.00200		mg/Kg			09/24/13 12:04	1
Trichlorofluoromethane	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,2,3-Trichloropropane	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,2,4-Trimethylbenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
1,3,5-Trimethylbenzene	ND		0.00200		mg/Kg			09/24/13 12:04	1
Vinyl chloride	ND		0.00200		mg/Kg			09/24/13 12:04	1
Xylenes, Total	ND		0.00300		mg/Kg			09/24/13 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/24/13 12:04*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*09/24/13 12:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*09/24/13 12:04*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*09/24/13 12:04*	*1*

Lab Sample ID: LCS 490-109254/3
Matrix: Solid
Analysis Batch: 109254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.250	0.2456		mg/Kg		98	51 - 149
Benzene	0.0500	0.05192		mg/Kg		104	75 - 127
Bromobenzene	0.0500	0.04763		mg/Kg		95	75 - 130
Bromochloromethane	0.0500	0.05260		mg/Kg		105	70 - 132
Bromodichloromethane	0.0500	0.05058		mg/Kg		101	68 - 135
Bromoform	0.0500	0.04561		mg/Kg		91	36 - 150
Bromomethane	0.0500	0.04895		mg/Kg		98	43 - 142
2-Butanone (MEK)	0.250	0.2408		mg/Kg		96	61 - 132
Carbon disulfide	0.0500	0.05322		mg/Kg		106	74 - 135
Carbon tetrachloride	0.0500	0.05413		mg/Kg		108	70 - 141
Chlorobenzene	0.0500	0.04964		mg/Kg		99	84 - 125
Chlorodibromomethane	0.0500	0.04765		mg/Kg		95	66 - 134
Chloroethane	0.0500	0.05584		mg/Kg		112	53 - 144
Chloroform	0.0500	0.05096		mg/Kg		102	76 - 130
Chloromethane	0.0500	0.05309		mg/Kg		106	23 - 150
2-Chlorotoluene	0.0500	0.04770		mg/Kg		95	78 - 132
4-Chlorotoluene	0.0500	0.04875		mg/Kg		98	77 - 138
cis-1,2-Dichloroethene	0.0500	0.05302		mg/Kg		106	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04993		mg/Kg		100	73 - 148
1,2-Dibromo-3-Chloropropane	0.0500	0.04358		mg/Kg		87	49 - 142
1,2-Dibromoethane (EDB)	0.0500	0.04814		mg/Kg		96	80 - 135
Dibromomethane	0.0500	0.05015		mg/Kg		100	71 - 130
1,2-Dichlorobenzene	0.0500	0.04780		mg/Kg		96	80 - 134
1,3-Dichlorobenzene	0.0500	0.04869		mg/Kg		97	79 - 137
1,4-Dichlorobenzene	0.0500	0.04764		mg/Kg		95	77 - 139
Dichlorodifluoromethane	0.0500	0.05510		mg/Kg		110	12 - 144

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-109254/3
Matrix: Solid
Analysis Batch: 109254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.0500	0.05167		mg/Kg		103	75 - 124
1,2-Dichloroethane	0.0500	0.05178		mg/Kg		104	65 - 134
1,1-Dichloroethene	0.0500	0.05331		mg/Kg		107	75 - 131
1,2-Dichloroethene, Total	0.100	0.1077		mg/Kg		108	75 - 128
1,2-Dichloropropane	0.0500	0.05170		mg/Kg		103	69 - 120
1,3-Dichloropropane	0.0500	0.04897		mg/Kg		98	78 - 126
2,2-Dichloropropane	0.0500	0.05186		mg/Kg		104	68 - 145
1,1-Dichloropropene	0.0500	0.05276		mg/Kg		106	79 - 127
Diisopropyl ether	0.0500	0.05204		mg/Kg		104	68 - 124
Ethylbenzene	0.0500	0.04884		mg/Kg		98	80 - 134
Hexachlorobutadiene	0.0500	0.04932		mg/Kg		99	65 - 148
2-Hexanone	0.250	0.2362		mg/Kg		94	57 - 148
Isopropylbenzene	0.0500	0.05008		mg/Kg		100	80 - 150
Methylene Chloride	0.0500	0.04930		mg/Kg		99	68 - 144
4-Methyl-2-pentanone (MIBK)	0.250	0.2301		mg/Kg		92	59 - 138
Methyl tert-butyl ether	0.0500	0.05138		mg/Kg		103	70 - 136
Naphthalene	0.0500	0.04745		mg/Kg		95	69 - 150
n-Butylbenzene	0.0500	0.04998		mg/Kg		100	72 - 152
N-Propylbenzene	0.0500	0.04823		mg/Kg		96	75 - 137
p-Isopropyltoluene	0.0500	0.04902		mg/Kg		98	77 - 141
sec-Butylbenzene	0.0500	0.04876		mg/Kg		98	79 - 141
Styrene	0.0500	0.05002		mg/Kg		100	82 - 137
tert-Butylbenzene	0.0500	0.04836		mg/Kg		97	80 - 132
1,1,1,2-Tetrachloroethane	0.0500	0.04816		mg/Kg		96	80 - 136
1,1,2,2-Tetrachloroethane	0.0500	0.04455		mg/Kg		89	66 - 134
Tetrachloroethene	0.0500	0.05064		mg/Kg		101	78 - 140
Toluene	0.0500	0.05005		mg/Kg		100	80 - 132
trans-1,2-Dichloroethene	0.0500	0.05465		mg/Kg		109	76 - 128
trans-1,3-Dichloropropene	0.0500	0.05008		mg/Kg		100	62 - 139
1,2,3-Trichlorobenzene	0.0500	0.04986		mg/Kg		100	70 - 150
1,2,4-Trichlorobenzene	0.0500	0.05067		mg/Kg		101	62 - 150
1,1,1-Trichloroethane	0.0500	0.05400		mg/Kg		108	72 - 140
1,1,2-Trichloroethane	0.0500	0.04675		mg/Kg		93	78 - 128
Trichloroethene	0.0500	0.05419		mg/Kg		108	77 - 127
Trichlorofluoromethane	0.0500	0.05482		mg/Kg		110	50 - 140
1,2,3-Trichloropropane	0.0500	0.04372		mg/Kg		87	65 - 139
1,2,4-Trimethylbenzene	0.0500	0.04749		mg/Kg		95	77 - 139
1,3,5-Trimethylbenzene	0.0500	0.04810		mg/Kg		96	78 - 138
Vinyl chloride	0.0500	0.05511		mg/Kg		110	47 - 136
Xylenes, Total	0.100	0.09659		mg/Kg		97	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-109254/4
Matrix: Solid
Analysis Batch: 109254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.250	0.2510		mg/Kg		100	51 - 149	2	50
Benzene	0.0500	0.05107		mg/Kg		102	75 - 127	2	50
Bromobenzene	0.0500	0.04686		mg/Kg		94	75 - 130	2	50
Bromochloromethane	0.0500	0.05310		mg/Kg		106	70 - 132	1	50
Bromodichloromethane	0.0500	0.05085		mg/Kg		102	68 - 135	1	50
Bromoform	0.0500	0.04641		mg/Kg		93	36 - 150	2	50
Bromomethane	0.0500	0.04700		mg/Kg		94	43 - 142	4	50
2-Butanone (MEK)	0.250	0.2476		mg/Kg		99	61 - 132	3	50
Carbon disulfide	0.0500	0.05034		mg/Kg		101	74 - 135	6	50
Carbon tetrachloride	0.0500	0.05258		mg/Kg		105	70 - 141	3	50
Chlorobenzene	0.0500	0.04878		mg/Kg		98	84 - 125	2	50
Chlorodibromomethane	0.0500	0.04791		mg/Kg		96	66 - 134	1	50
Chloroethane	0.0500	0.05375		mg/Kg		108	53 - 144	4	50
Chloroform	0.0500	0.05024		mg/Kg		100	76 - 130	1	49
Chloromethane	0.0500	0.05125		mg/Kg		102	23 - 150	4	50
2-Chlorotoluene	0.0500	0.04679		mg/Kg		94	78 - 132	2	50
4-Chlorotoluene	0.0500	0.04801		mg/Kg		96	77 - 138	2	50
cis-1,2-Dichloroethene	0.0500	0.05168		mg/Kg		103	75 - 125	3	50
cis-1,3-Dichloropropene	0.0500	0.05011		mg/Kg		100	73 - 148	0	50
1,2-Dibromo-3-Chloropropane	0.0500	0.04404		mg/Kg		88	49 - 142	1	50
1,2-Dibromoethane (EDB)	0.0500	0.04895		mg/Kg		98	80 - 135	2	50
Dibromomethane	0.0500	0.05044		mg/Kg		101	71 - 130	1	50
1,2-Dichlorobenzene	0.0500	0.04780		mg/Kg		96	80 - 134	0	50
1,3-Dichlorobenzene	0.0500	0.04792		mg/Kg		96	79 - 137	2	50
1,4-Dichlorobenzene	0.0500	0.04730		mg/Kg		95	77 - 139	1	50
Dichlorodifluoromethane	0.0500	0.05303		mg/Kg		106	12 - 144	4	50
1,1-Dichloroethane	0.0500	0.05015		mg/Kg		100	75 - 124	3	50
1,2-Dichloroethane	0.0500	0.05191		mg/Kg		104	65 - 134	0	50
1,1-Dichloroethene	0.0500	0.05129		mg/Kg		103	75 - 131	4	50
1,2-Dichloroethene, Total	0.100	0.1044		mg/Kg		104	75 - 128	3	41
1,2-Dichloropropane	0.0500	0.05089		mg/Kg		102	69 - 120	2	50
1,3-Dichloropropane	0.0500	0.04901		mg/Kg		98	78 - 126	0	42
2,2-Dichloropropane	0.0500	0.04972		mg/Kg		99	68 - 145	4	50
1,1-Dichloropropene	0.0500	0.05156		mg/Kg		103	79 - 127	2	50
Diisopropyl ether	0.0500	0.05128		mg/Kg		103	68 - 124	1	45
Ethylbenzene	0.0500	0.04781		mg/Kg		96	80 - 134	2	50
Hexachlorobutadiene	0.0500	0.04745		mg/Kg		95	65 - 148	4	50
2-Hexanone	0.250	0.2389		mg/Kg		96	57 - 148	1	50
Isopropylbenzene	0.0500	0.04871		mg/Kg		97	80 - 150	3	50
Methylene Chloride	0.0500	0.04865		mg/Kg		97	68 - 144	1	50
4-Methyl-2-pentanone (MIBK)	0.250	0.2378		mg/Kg		95	59 - 138	3	50
Methyl tert-butyl ether	0.0500	0.05153		mg/Kg		103	70 - 136	0	50
Naphthalene	0.0500	0.04697		mg/Kg		94	69 - 150	1	50
n-Butylbenzene	0.0500	0.04855		mg/Kg		97	72 - 152	3	50
N-Propylbenzene	0.0500	0.04746		mg/Kg		95	75 - 137	2	50
p-Isopropyltoluene	0.0500	0.04770		mg/Kg		95	77 - 141	3	50
sec-Butylbenzene	0.0500	0.04763		mg/Kg		95	79 - 141	2	50
Styrene	0.0500	0.04916		mg/Kg		98	82 - 137	2	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-109254/4
Matrix: Solid
Analysis Batch: 109254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butylbenzene			0.0500	0.04746		mg/Kg		95	80 - 132	2	50
1,1,1,2-Tetrachloroethane			0.0500	0.04824		mg/Kg		96	80 - 136	0	50
1,1,2,2-Tetrachloroethane			0.0500	0.04544		mg/Kg		91	66 - 134	2	50
Tetrachloroethene			0.0500	0.04995		mg/Kg		100	78 - 140	1	50
Toluene			0.0500	0.04932		mg/Kg		99	80 - 132	1	50
trans-1,2-Dichloroethene			0.0500	0.05271		mg/Kg		105	76 - 128	4	50
trans-1,3-Dichloropropene			0.0500	0.04981		mg/Kg		100	62 - 139	1	50
1,2,3-Trichlorobenzene			0.0500	0.04865		mg/Kg		97	70 - 150	2	50
1,2,4-Trichlorobenzene			0.0500	0.04910		mg/Kg		98	62 - 150	3	50
1,1,1-Trichloroethane			0.0500	0.05249		mg/Kg		105	72 - 140	3	50
1,1,2-Trichloroethane			0.0500	0.04666		mg/Kg		93	78 - 128	0	50
Trichloroethene			0.0500	0.05301		mg/Kg		106	77 - 127	2	50
Trichlorofluoromethane			0.0500	0.05410		mg/Kg		108	50 - 140	1	50
1,2,3-Trichloropropane			0.0500	0.04374		mg/Kg		87	65 - 139	0	50
1,2,4-Trimethylbenzene			0.0500	0.04660		mg/Kg		93	77 - 139	2	50
1,3,5-Trimethylbenzene			0.0500	0.04668		mg/Kg		93	78 - 138	3	50
Vinyl chloride			0.0500	0.05258		mg/Kg		105	47 - 136	5	50
Xylenes, Total			0.100	0.09440		mg/Kg		94	80 - 137	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 490-110236/7
Matrix: Solid
Analysis Batch: 110236

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/Kg			09/27/13 11:57	1
Benzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
Bromobenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
Bromochloromethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
Bromodichloromethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
Bromoform	ND		0.00200		mg/Kg			09/27/13 11:57	1
Bromomethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
2-Butanone (MEK)	ND		0.0500		mg/Kg			09/27/13 11:57	1
Carbon disulfide	ND		0.00500		mg/Kg			09/27/13 11:57	1
Carbon tetrachloride	ND		0.00200		mg/Kg			09/27/13 11:57	1
Chlorobenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
Chlorodibromomethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
Chloroethane	ND		0.00500		mg/Kg			09/27/13 11:57	1
Chloroform	ND		0.00200		mg/Kg			09/27/13 11:57	1
Chloromethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
2-Chlorotoluene	ND		0.00200		mg/Kg			09/27/13 11:57	1
4-Chlorotoluene	ND		0.00200		mg/Kg			09/27/13 11:57	1
cis-1,2-Dichloroethene	ND		0.00200		mg/Kg			09/27/13 11:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-110236/7
Matrix: Solid
Analysis Batch: 110236

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,2-Dibromo-3-Chloropropane	ND		0.00500		mg/Kg			09/27/13 11:57	1
1,2-Dibromoethane (EDB)	ND		0.00200		mg/Kg			09/27/13 11:57	1
Dibromomethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,2-Dichlorobenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,3-Dichlorobenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,4-Dichlorobenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
Dichlorodifluoromethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,1-Dichloroethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,1-Dichloroethene	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,2-Dichloroethene, Total	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,2-Dichloropropane	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,3-Dichloropropane	ND		0.00200		mg/Kg			09/27/13 11:57	1
2,2-Dichloropropane	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,1-Dichloropropene	ND		0.00200		mg/Kg			09/27/13 11:57	1
Diisopropyl ether	ND		0.00200		mg/Kg			09/27/13 11:57	1
Ethylbenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
Hexachlorobutadiene	ND		0.00500		mg/Kg			09/27/13 11:57	1
2-Hexanone	ND		0.0500		mg/Kg			09/27/13 11:57	1
Isopropylbenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
Methylene Chloride	ND		0.0100		mg/Kg			09/27/13 11:57	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500		mg/Kg			09/27/13 11:57	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			09/27/13 11:57	1
Naphthalene	ND		0.00500		mg/Kg			09/27/13 11:57	1
n-Butylbenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
N-Propylbenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
p-Isopropyltoluene	ND		0.00200		mg/Kg			09/27/13 11:57	1
sec-Butylbenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
Styrene	ND		0.00200		mg/Kg			09/27/13 11:57	1
tert-Butylbenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
Tetrachloroethene	ND		0.00200		mg/Kg			09/27/13 11:57	1
Toluene	ND		0.00200		mg/Kg			09/27/13 11:57	1
trans-1,2-Dichloroethene	ND		0.00200		mg/Kg			09/27/13 11:57	1
trans-1,3-Dichloropropene	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,2,3-Trichlorobenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,2,4-Trichlorobenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,1,1-Trichloroethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,1,2-Trichloroethane	ND		0.00500		mg/Kg			09/27/13 11:57	1
Trichloroethene	ND		0.00200		mg/Kg			09/27/13 11:57	1
Trichlorofluoromethane	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,2,3-Trichloropropane	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,2,4-Trimethylbenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
1,3,5-Trimethylbenzene	ND		0.00200		mg/Kg			09/27/13 11:57	1
Vinyl chloride	ND		0.00200		mg/Kg			09/27/13 11:57	1
Xylenes, Total	ND		0.00300		mg/Kg			09/27/13 11:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-110236/7
Matrix: Solid
Analysis Batch: 110236

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		09/27/13 11:57	1
Dibromofluoromethane (Surr)	94		70 - 130		09/27/13 11:57	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		09/27/13 11:57	1
Toluene-d8 (Surr)	94		70 - 130		09/27/13 11:57	1

Lab Sample ID: LCS 490-110236/3
Matrix: Solid
Analysis Batch: 110236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.250	0.2360		mg/Kg		94	51 - 149
Benzene	0.0500	0.04489		mg/Kg		90	75 - 127
Bromobenzene	0.0500	0.05540		mg/Kg		111	75 - 130
Bromochloromethane	0.0500	0.04473		mg/Kg		89	70 - 132
Bromodichloromethane	0.0500	0.04398		mg/Kg		88	68 - 135
Bromoform	0.0500	0.04573		mg/Kg		91	36 - 150
Bromomethane	0.0500	0.03979		mg/Kg		80	43 - 142
2-Butanone (MEK)	0.250	0.2175		mg/Kg		87	61 - 132
Carbon disulfide	0.0500	0.05068		mg/Kg		101	74 - 135
Carbon tetrachloride	0.0500	0.04712		mg/Kg		94	70 - 141
Chlorobenzene	0.0500	0.05132		mg/Kg		103	84 - 125
Chlorodibromomethane	0.0500	0.04821		mg/Kg		96	66 - 134
Chloroethane	0.0500	0.04823		mg/Kg		96	53 - 144
Chloroform	0.0500	0.04495		mg/Kg		90	76 - 130
Chloromethane	0.0500	0.05440		mg/Kg		109	23 - 150
2-Chlorotoluene	0.0500	0.05641		mg/Kg		113	78 - 132
4-Chlorotoluene	0.0500	0.05660		mg/Kg		113	77 - 138
cis-1,2-Dichloroethene	0.0500	0.04939		mg/Kg		99	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04334		mg/Kg		87	73 - 148
1,2-Dibromo-3-Chloropropane	0.0500	0.05219		mg/Kg		104	49 - 142
1,2-Dibromoethane (EDB)	0.0500	0.05029		mg/Kg		101	80 - 135
Dibromomethane	0.0500	0.04369		mg/Kg		87	71 - 130
1,2-Dichlorobenzene	0.0500	0.05360		mg/Kg		107	80 - 134
1,3-Dichlorobenzene	0.0500	0.05748		mg/Kg		115	79 - 137
1,4-Dichlorobenzene	0.0500	0.05651		mg/Kg		113	77 - 139
Dichlorodifluoromethane	0.0500	0.05459		mg/Kg		109	12 - 144
1,1-Dichloroethane	0.0500	0.04817		mg/Kg		96	75 - 124
1,2-Dichloroethane	0.0500	0.04981		mg/Kg		100	65 - 134
1,1-Dichloroethene	0.0500	0.04747		mg/Kg		95	75 - 131
1,2-Dichloroethene, Total	0.100	0.09975		mg/Kg		100	75 - 128
1,2-Dichloropropane	0.0500	0.04569		mg/Kg		91	69 - 120
1,3-Dichloropropane	0.0500	0.05181		mg/Kg		104	78 - 126
2,2-Dichloropropane	0.0500	0.04582		mg/Kg		92	68 - 145
1,1-Dichloropropene	0.0500	0.04808		mg/Kg		96	79 - 127
Diisopropyl ether	0.0500	0.04740		mg/Kg		95	68 - 124
Ethylbenzene	0.0500	0.05216		mg/Kg		104	80 - 134
Hexachlorobutadiene	0.0500	0.06473		mg/Kg		129	65 - 148
2-Hexanone	0.250	0.2530		mg/Kg		101	57 - 148

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-110236/3
Matrix: Solid
Analysis Batch: 110236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	0.0500	0.05228		mg/Kg		105	80 - 150
Methylene Chloride	0.0500	0.04435		mg/Kg		89	68 - 144
4-Methyl-2-pentanone (MIBK)	0.250	0.2053		mg/Kg		82	59 - 138
Methyl tert-butyl ether	0.0500	0.04546		mg/Kg		91	70 - 136
Naphthalene	0.0500	0.05567		mg/Kg		111	69 - 150
n-Butylbenzene	0.0500	0.05728		mg/Kg		115	72 - 152
N-Propylbenzene	0.0500	0.05691		mg/Kg		114	75 - 137
p-Isopropyltoluene	0.0500	0.05679		mg/Kg		114	77 - 141
sec-Butylbenzene	0.0500	0.05687		mg/Kg		114	79 - 141
Styrene	0.0500	0.05002		mg/Kg		100	82 - 137
tert-Butylbenzene	0.0500	0.05507		mg/Kg		110	80 - 132
1,1,1,2-Tetrachloroethane	0.0500	0.04969		mg/Kg		99	80 - 136
1,1,2,2-Tetrachloroethane	0.0500	0.05251		mg/Kg		105	66 - 134
Tetrachloroethene	0.0500	0.05495		mg/Kg		110	78 - 140
Toluene	0.0500	0.05104		mg/Kg		102	80 - 132
trans-1,2-Dichloroethene	0.0500	0.05036		mg/Kg		101	76 - 128
trans-1,3-Dichloropropene	0.0500	0.04982		mg/Kg		100	62 - 139
1,2,3-Trichlorobenzene	0.0500	0.06237		mg/Kg		125	70 - 150
1,2,4-Trichlorobenzene	0.0500	0.06469		mg/Kg		129	62 - 150
1,1,1-Trichloroethane	0.0500	0.04754		mg/Kg		95	72 - 140
1,1,2-Trichloroethane	0.0500	0.04846		mg/Kg		97	78 - 128
Trichloroethene	0.0500	0.04829		mg/Kg		97	77 - 127
Trichlorofluoromethane	0.0500	0.05175		mg/Kg		104	50 - 140
1,2,3-Trichloropropane	0.0500	0.04971		mg/Kg		99	65 - 139
1,2,4-Trimethylbenzene	0.0500	0.05564		mg/Kg		111	77 - 139
1,3,5-Trimethylbenzene	0.0500	0.05554		mg/Kg		111	78 - 138
Vinyl chloride	0.0500	0.05555		mg/Kg		111	47 - 136
Xylenes, Total	0.100	0.1002		mg/Kg		100	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 490-110236/4
Matrix: Solid
Analysis Batch: 110236

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.250	0.2505		mg/Kg		100	51 - 149	6	50
Benzene	0.0500	0.04365		mg/Kg		87	75 - 127	3	50
Bromobenzene	0.0500	0.05400		mg/Kg		108	75 - 130	3	50
Bromochloromethane	0.0500	0.04477		mg/Kg		90	70 - 132	0	50
Bromodichloromethane	0.0500	0.04382		mg/Kg		88	68 - 135	0	50
Bromoform	0.0500	0.04776		mg/Kg		96	36 - 150	4	50
Bromomethane	0.0500	0.03831		mg/Kg		77	43 - 142	4	50
2-Butanone (MEK)	0.250	0.2275		mg/Kg		91	61 - 132	4	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-110236/4
Matrix: Solid
Analysis Batch: 110236

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	0.0500	0.04537		mg/Kg		91	74 - 135	11	50
Carbon tetrachloride	0.0500	0.04502		mg/Kg		90	70 - 141	5	50
Chlorobenzene	0.0500	0.04981		mg/Kg		100	84 - 125	3	50
Chlorodibromomethane	0.0500	0.04873		mg/Kg		97	66 - 134	1	50
Chloroethane	0.0500	0.04531		mg/Kg		91	53 - 144	6	50
Chloroform	0.0500	0.04396		mg/Kg		88	76 - 130	2	49
Chloromethane	0.0500	0.05264		mg/Kg		105	23 - 150	3	50
2-Chlorotoluene	0.0500	0.05355		mg/Kg		107	78 - 132	5	50
4-Chlorotoluene	0.0500	0.05376		mg/Kg		108	77 - 138	5	50
cis-1,2-Dichloroethene	0.0500	0.04761		mg/Kg		95	75 - 125	4	50
cis-1,3-Dichloropropene	0.0500	0.04248		mg/Kg		85	73 - 148	2	50
1,2-Dibromo-3-Chloropropane	0.0500	0.05462		mg/Kg		109	49 - 142	5	50
1,2-Dibromoethane (EDB)	0.0500	0.05185		mg/Kg		104	80 - 135	3	50
Dibromomethane	0.0500	0.04509		mg/Kg		90	71 - 130	3	50
1,2-Dichlorobenzene	0.0500	0.05224		mg/Kg		104	80 - 134	3	50
1,3-Dichlorobenzene	0.0500	0.05425		mg/Kg		108	79 - 137	6	50
1,4-Dichlorobenzene	0.0500	0.05272		mg/Kg		105	77 - 139	7	50
Dichlorodifluoromethane	0.0500	0.05341		mg/Kg		107	12 - 144	2	50
1,1-Dichloroethane	0.0500	0.04707		mg/Kg		94	75 - 124	2	50
1,2-Dichloroethane	0.0500	0.04997		mg/Kg		100	65 - 134	0	50
1,1-Dichloroethene	0.0500	0.04571		mg/Kg		91	75 - 131	4	50
1,2-Dichloroethene, Total	0.100	0.09610		mg/Kg		96	75 - 128	4	41
1,2-Dichloropropane	0.0500	0.04412		mg/Kg		88	69 - 120	3	50
1,3-Dichloropropane	0.0500	0.05233		mg/Kg		105	78 - 126	1	42
2,2-Dichloropropane	0.0500	0.04420		mg/Kg		88	68 - 145	4	50
1,1-Dichloropropene	0.0500	0.04646		mg/Kg		93	79 - 127	3	50
Diisopropyl ether	0.0500	0.04666		mg/Kg		93	68 - 124	2	45
Ethylbenzene	0.0500	0.04967		mg/Kg		99	80 - 134	5	50
Hexachlorobutadiene	0.0500	0.06105		mg/Kg		122	65 - 148	6	50
2-Hexanone	0.250	0.2692		mg/Kg		108	57 - 148	6	50
Isopropylbenzene	0.0500	0.04987		mg/Kg		100	80 - 150	5	50
Methylene Chloride	0.0500	0.04429		mg/Kg		89	68 - 144	0	50
4-Methyl-2-pentanone (MIBK)	0.250	0.2161		mg/Kg		86	59 - 138	5	50
Methyl tert-butyl ether	0.0500	0.04610		mg/Kg		92	70 - 136	1	50
Naphthalene	0.0500	0.05657		mg/Kg		113	69 - 150	2	50
n-Butylbenzene	0.0500	0.05395		mg/Kg		108	72 - 152	6	50
N-Propylbenzene	0.0500	0.05351		mg/Kg		107	75 - 137	6	50
p-Isopropyltoluene	0.0500	0.05344		mg/Kg		107	77 - 141	6	50
sec-Butylbenzene	0.0500	0.05352		mg/Kg		107	79 - 141	6	50
Styrene	0.0500	0.04879		mg/Kg		98	82 - 137	2	50
tert-Butylbenzene	0.0500	0.05277		mg/Kg		106	80 - 132	4	50
1,1,1,2-Tetrachloroethane	0.0500	0.04855		mg/Kg		97	80 - 136	2	50
1,1,2,2-Tetrachloroethane	0.0500	0.05432		mg/Kg		109	66 - 134	3	50
Tetrachloroethene	0.0500	0.05225		mg/Kg		105	78 - 140	5	50
Toluene	0.0500	0.04931		mg/Kg		99	80 - 132	3	50
trans-1,2-Dichloroethene	0.0500	0.04849		mg/Kg		97	76 - 128	4	50
trans-1,3-Dichloropropene	0.0500	0.05043		mg/Kg		101	62 - 139	1	50
1,2,3-Trichlorobenzene	0.0500	0.06070		mg/Kg		121	70 - 150	3	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-110236/4
Matrix: Solid
Analysis Batch: 110236

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			0.0500	0.06082		mg/Kg		122	62 - 150	6	50
1,1,1-Trichloroethane			0.0500	0.04575		mg/Kg		91	72 - 140	4	50
1,1,2-Trichloroethane			0.0500	0.04927		mg/Kg		99	78 - 128	2	50
Trichloroethene			0.0500	0.04660		mg/Kg		93	77 - 127	4	50
Trichlorofluoromethane			0.0500	0.04831		mg/Kg		97	50 - 140	7	50
1,2,3-Trichloropropane			0.0500	0.05106		mg/Kg		102	65 - 139	3	50
1,2,4-Trimethylbenzene			0.0500	0.05244		mg/Kg		105	77 - 139	6	50
1,3,5-Trimethylbenzene			0.0500	0.05256		mg/Kg		105	78 - 138	6	50
Vinyl chloride			0.0500	0.05365		mg/Kg		107	47 - 136	3	50
Xylenes, Total			0.100	0.09623		mg/Kg		96	80 - 137	4	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Method: Moisture - Percent Moisture

Lab Sample ID: 490-35894-D-4 DU
Matrix: Solid
Analysis Batch: 109067

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	92			91		%				2	20

GC/MS VOA

Analysis Batch: 109014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35939-2	SGMP-1 4-5'	Total/NA	Solid	8260B	109045
490-35939-8	SB-29 3-4'	Total/NA	Solid	8260B	109045
LCS 490-109014/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-109014/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-109014/7	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 109044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35939-1	SGMP-1 2-3'	Total/NA	Solid	5035	
490-35939-2	SGMP-1 4-5'	Total/NA	Solid	5035	
490-35939-3	SGMP-3 1-2'	Total/NA	Solid	5035	
490-35939-4	SGMP-3 3-4'	Total/NA	Solid	5035	
490-35939-5	SGMP-6 2-3'	Total/NA	Solid	5035	
490-35939-6	SGMP-6 3-4'	Total/NA	Solid	5035	
490-35939-7	SB-29 0-1'	Total/NA	Solid	5035	
490-35939-8	SB-29 3-4'	Total/NA	Solid	5035	

Prep Batch: 109045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35939-2	SGMP-1 4-5'	Total/NA	Solid	5035	
490-35939-8	SB-29 3-4'	Total/NA	Solid	5035	

Analysis Batch: 109254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35939-1	SGMP-1 2-3'	Total/NA	Solid	8260B	109044
490-35939-2	SGMP-1 4-5'	Total/NA	Solid	8260B	109044
490-35939-3	SGMP-3 1-2'	Total/NA	Solid	8260B	109044
490-35939-5	SGMP-6 2-3'	Total/NA	Solid	8260B	109044
490-35939-6	SGMP-6 3-4'	Total/NA	Solid	8260B	109044
490-35939-7	SB-29 0-1'	Total/NA	Solid	8260B	109044
LCS 490-109254/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-109254/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-109254/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 110236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35939-4	SGMP-3 3-4'	Total/NA	Solid	8260B	109044
490-35939-8	SB-29 3-4'	Total/NA	Solid	8260B	109044
LCS 490-110236/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-110236/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-110236/7	Method Blank	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 109067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35894-D-4 DU	Duplicate	Total/NA	Solid	Moisture	
490-35939-1	SGMP-1 2-3'	Total/NA	Solid	Moisture	
490-35939-2	SGMP-1 4-5'	Total/NA	Solid	Moisture	
490-35939-3	SGMP-3 1-2'	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 109067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35939-4	SGMP-3 3-4'	Total/NA	Solid	Moisture	
490-35939-5	SGMP-6 2-3'	Total/NA	Solid	Moisture	
490-35939-6	SGMP-6 3-4'	Total/NA	Solid	Moisture	
490-35939-7	SB-29 0-1'	Total/NA	Solid	Moisture	
490-35939-8	SB-29 3-4'	Total/NA	Solid	Moisture	

Client Sample ID: SGMP-1 2-3'

Lab Sample ID: 490-35939-1
Date Collected: 09/20/13 15:46
Matrix: Solid
Date Received: 09/21/13 08:40
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			109044	09/23/13 10:08	GLN	TAL NSH
Total/NA	Analysis	8260B		1	109254	09/24/13 15:06	KKK	TAL NSH
Total/NA	Analysis	Moisture		1	109067	09/23/13 10:47	RRS	TAL NSH

Client Sample ID: SGMP-1 4-5'

Lab Sample ID: 490-35939-2
Date Collected: 09/20/13 15:50
Matrix: Solid
Date Received: 09/21/13 08:40
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			109045	09/23/13 10:18	GLN	TAL NSH
Total/NA	Analysis	8260B		1	109014	09/23/13 14:40	KKK	TAL NSH
Total/NA	Prep	5035			109044	09/23/13 10:08	GLN	TAL NSH
Total/NA	Analysis	8260B		1	109254	09/24/13 17:06	KKK	TAL NSH
Total/NA	Analysis	Moisture		1	109067	09/23/13 10:47	RRS	TAL NSH

Client Sample ID: SGMP-3 1-2'

Lab Sample ID: 490-35939-3
Date Collected: 09/20/13 15:55
Matrix: Solid
Date Received: 09/21/13 08:40
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			109044	09/23/13 10:08	GLN	TAL NSH
Total/NA	Analysis	8260B		1	109254	09/24/13 14:05	KKK	TAL NSH
Total/NA	Analysis	Moisture		1	109067	09/23/13 10:47	RRS	TAL NSH

Client Sample ID: SGMP-3 3-4'

Lab Sample ID: 490-35939-4
Date Collected: 09/20/13 15:58
Matrix: Solid
Date Received: 09/21/13 08:40
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			109044	09/23/13 10:08	GLN	TAL NSH
Total/NA	Analysis	8260B		1	110236	09/27/13 12:27	KKK	TAL NSH
Total/NA	Analysis	Moisture		1	109067	09/23/13 10:47	RRS	TAL NSH

Client Sample ID: SGMP-6 2-3'

Lab Sample ID: 490-35939-5
Date Collected: 09/20/13 16:05
Matrix: Solid
Date Received: 09/21/13 08:40
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			109044	09/23/13 10:08	GLN	TAL NSH
Total/NA	Analysis	8260B		1	109254	09/24/13 14:35	KKK	TAL NSH
Total/NA	Analysis	Moisture		1	109067	09/23/13 10:47	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Client Sample ID: SGMP-6 3-4'

Lab Sample ID: 490-35939-6
Date Collected: 09/20/13 16:10
Matrix: Solid
Date Received: 09/21/13 08:40
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			109044	09/23/13 10:08	GLN	TAL NSH
Total/NA	Analysis	8260B		1	109254	09/24/13 16:06	KKK	TAL NSH
Total/NA	Analysis	Moisture		1	109067	09/23/13 10:47	RRS	TAL NSH

Client Sample ID: SB-29 0-1'

Lab Sample ID: 490-35939-7
Date Collected: 09/20/13 15:40
Matrix: Solid
Date Received: 09/21/13 08:40
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			109044	09/23/13 10:08	GLN	TAL NSH
Total/NA	Analysis	8260B		1	109254	09/24/13 16:36	KKK	TAL NSH
Total/NA	Analysis	Moisture		1	109067	09/23/13 10:47	RRS	TAL NSH

Client Sample ID: SB-29 3-4'

Lab Sample ID: 490-35939-8
Date Collected: 09/20/13 15:42
Matrix: Solid
Date Received: 09/21/13 08:40
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			109045	09/23/13 10:18	GLN	TAL NSH
Total/NA	Analysis	8260B		1	109014	09/23/13 17:43	KKK	TAL NSH
Total/NA	Prep	5035			109044	09/23/13 10:08	GLN	TAL NSH
Total/NA	Analysis	8260B		1	110236	09/27/13 12:57	KKK	TAL NSH
Total/NA	Analysis	Moisture		1	109067	09/23/13 10:47	RRS	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Hart & Hickman, PC
Project/Site: Rollins Economy Cleaners

TestAmerica Job ID: 490-35939-1
SDG: DSO-79

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-35939 Chain of Custody

Cooler Received/Opened On: 9/21/2013 @0840

1. Tracking # 1417 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 5.4 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) HF

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) AJH

I certify that I attached a label with the unique LIMS number to each container (intial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# 80051

AJH 9/21/13 AJH 9/21/13

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Chain of Custody Record

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
phone 615.726.0177 fax 615.726.3403

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Timothy Klotz	Site Contact:	Date:	COC No:
Hart & Hickman	Tel/Fax: tklotz@harthickman.com	Lab Contact:	Carrier:	1 of 1 COCs
3334 Hillsborough Street	Analysis Turnaround Time			Sampler:
Raleigh, NC 27607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
919-847-4241 Phone	TAT if different from Below _____			Walk-in Client:
(xxx) xxx-xxxx FAX	☐ 2 weeks			Lab Sampling:
Project Name: Rollins Economy Cleaners	☐ 1 week			Job / SDG No.:
Site: DS0-79	☐ 2 days			
P O # DS0-79	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs by 8260	Sample Specific Notes:
1	SGMP-1 2-3'	9-20-13	1546	G	S	4				
2	SGMP-1 4-5'	9-20-13	1550	G	S	4				
3	SGMP-3 1-2'	9-20-13	1555	G	S	4				
4	SGMP-3 3-4'	9-20-13	1558	G	S	4				
5	SGMP-6 2-3'	9-20-13	1605	G	S	4				
6	SGMP-6 3-4'	9-20-13	1610	G	S	4				
7	SB-29 0-1'	9-20-13	1540	G	S	4				
8	SB-29 3-4'	9-20-13	1542	G	S	4				

Loc: 490
35939

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:					
Relinquished by: Tim Klotz	Company: H&H	Date/Time: 9-20-13/1700	Received by: Adam Hankey	Company: TAN 5.4	Date/Time: 9/21/13 9:40
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.2, dated 04/02/2013

Login Sample Receipt Checklist

Client: Hart & Hickman, PC

Job Number: 490-35939-1
SDG Number: DSO-79

Login Number: 35939
List Number: 1
Creator: Huskey, Adam

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Analyses listed on COC; individual samples not designated for specific analyses
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 7, 2013

Tim Klotz
Hart & Hickman - Raleigh, NC
3334 Hillsborough Street
Raleigh, NC 27607

Project Location: Rollins Economy Cleaners
Client Job Number:
Project Number: DS0-79
Laboratory Work Order Number: 13I0935

Enclosed are results of analyses for samples received by the laboratory on September 26, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Hart & Hickman - Raleigh, NC
3334 Hillsborough Street
Raleigh, NC 27607
ATTN: Tim Klotz

REPORT DATE: 10/7/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: DS0-79

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13I0935

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Rollins Economy Cleaners

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SGMP-1	13I0935-01	Soil Gas		EPA TO-15	
SGMP-2	13I0935-02	Soil Gas		EPA TO-15	
SGMP-3	13I0935-03	Soil Gas		EPA TO-15	
SGMP-4	13I0935-04	Soil Gas		EPA TO-15	
SGMP-5	13I0935-05	Soil Gas		EPA TO-15	
SGMP-6	13I0935-06	Soil Gas		EPA TO-15	
SGMP-7	13I0935-07	Soil Gas		EPA TO-15	
SGMP-8	13I0935-08	Soil Gas		EPA TO-15	
SGMP-9	13I0935-09	Soil Gas		EPA TO-15	
SSVP-1	13I0935-10	Sub Slab		EPA TO-15	
SSVP-2	13I0935-11	Sub Slab		EPA TO-15	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15

Qualifications:

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Naphthalene

13I0935-01[SGMP-1], 13I0935-02[SGMP-2], 13I0935-03[SGMP-3], 13I0935-04[SGMP-4], 13I0935-05[SGMP-5], 13I0935-07[SGMP-7], 13I0935-08[SGMP-8], 13I0935-09[SGMP-9], 13I0935-10[SSVP-1], 13I0935-11[SSVP-2], B082109-BLK1, B082109-BS1, B082111-BLK1, B082111-BS1, B082111-DUP1

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Acetone

13I0935-01[SGMP-1], 13I0935-05[SGMP-5], 13I0935-11[SSVP-2], B082111-BS1, B082111-DUP1

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Acetone

13I0935-01[SGMP-1], 13I0935-03[SGMP-3], 13I0935-04[SGMP-4], 13I0935-05[SGMP-5], 13I0935-08[SGMP-8], 13I0935-09[SGMP-9], 13I0935-10[SSVP-1], 13I0935-11[SSVP-2], B082109-BS1, B082111-BS1, B082111-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 9/26/2013
Field Sample #: SGMP-1
Sample ID: 13I0935-01
Sample Matrix: Soil Gas
Sampled: 9/20/2013 14:40

Sample Description/Location:
Sub Description/Location:
Canister ID: 1542
Canister Size: 1 liter
Flow Controller ID: 3042
Sample Type: 1 hr

Work Order: 13I0935
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -2
Receipt Vacuum(in Hg): -2.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	57	40	14	L-05, V-06	140	95	20	9/28/13 20:00	WSD
n-Butylbenzene	ND	2.9	0.66		ND	16	20	9/28/13 20:00	WSD
sec-Butylbenzene	ND	2.3	0.78		ND	13	20	9/28/13 20:00	WSD
tert-Butylbenzene	ND	2.3	0.86		ND	13	20	9/28/13 20:00	WSD
1,1-Dichloroethylene	ND	1.0	0.24		ND	4.0	20	9/28/13 20:00	WSD
cis-1,2-Dichloroethylene	36	1.0	0.38		140	4.0	20	9/28/13 20:00	WSD
trans-1,2-Dichloroethylene	15	1.0	0.26		59	4.0	20	9/28/13 20:00	WSD
Ethylbenzene	2.3	1.0	0.28		9.9	4.3	20	9/28/13 20:00	WSD
Isopropylbenzene (Cumene)	ND	2.5	0.80		ND	12	20	9/28/13 20:00	WSD
p-Isopropyltoluene (p-Cymene)	ND	2.3	0.68		ND	13	20	9/28/13 20:00	WSD
Naphthalene	1.2	1.0	0.54	L-03	6.1	5.2	20	9/28/13 20:00	WSD
Propylbenzene	ND	2.5	0.88		ND	12	20	9/28/13 20:00	WSD
Tetrachloroethylene	32000	40	11		220000	270	800	9/30/13 18:57	WSD
Trichloroethylene	650	1.0	0.30		3500	5.4	20	9/28/13 20:00	WSD
1,2,4-Trimethylbenzene	2.4	1.0	0.25		12	4.9	20	9/28/13 20:00	WSD
1,3,5-Trimethylbenzene	ND	1.0	0.20		ND	4.9	20	9/28/13 20:00	WSD
Vinyl Chloride	ND	1.0	0.43		ND	2.6	20	9/28/13 20:00	WSD
m&p-Xylene	12	2.0	0.50		50	8.7	20	9/28/13 20:00	WSD
o-Xylene	2.3	1.0	0.29		10	4.3	20	9/28/13 20:00	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.3	70-130	9/30/13 18:57
4-Bromofluorobenzene (1)	97.7	70-130	9/28/13 20:00
4-Bromofluorobenzene (2)	92.3	70-130	9/28/13 20:00

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ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 9/26/2013
Field Sample #: SGMP-2
Sample ID: 13I0935-02
Sample Matrix: Soil Gas
Sampled: 9/20/2013 14:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 1544
Canister Size: 1 liter
Flow Controller ID: 3202
Sample Type: 1 hr

Work Order: 13I0935
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -1.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	ND	4.0	1.4		ND	9.5	2	9/30/13 23:40	WSD
n-Butylbenzene	1.0	0.29	0.066		5.6	1.6	2	9/30/13 23:40	WSD
sec-Butylbenzene	0.31	0.23	0.078		1.7	1.3	2	9/30/13 23:40	WSD
tert-Butylbenzene	ND	0.23	0.086		ND	1.3	2	9/30/13 23:40	WSD
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	2	9/30/13 23:40	WSD
cis-1,2-Dichloroethylene	0.12	0.10	0.038		0.47	0.40	2	9/30/13 23:40	WSD
trans-1,2-Dichloroethylene	ND	0.10	0.026		ND	0.40	2	9/30/13 23:40	WSD
Ethylbenzene	4.8	0.10	0.028		21	0.43	2	9/30/13 23:40	WSD
Isopropylbenzene (Cumene)	0.48	0.25	0.080		2.3	1.2	2	9/30/13 23:40	WSD
p-Isopropyltoluene (p-Cymene)	0.55	0.23	0.068		3.0	1.3	2	9/30/13 23:40	WSD
Naphthalene	1.6	0.10	0.054	L-03	8.4	0.52	2	9/30/13 23:40	WSD
Propylbenzene	1.8	0.25	0.088		8.7	1.2	2	9/30/13 23:40	WSD
Tetrachloroethylene	2.8	0.10	0.028		19	0.68	2	9/30/13 23:40	WSD
Trichloroethylene	0.13	0.10	0.030		0.68	0.54	2	9/30/13 23:40	WSD
1,2,4-Trimethylbenzene	10	0.10	0.025		49	0.49	2	9/30/13 23:40	WSD
1,3,5-Trimethylbenzene	2.9	0.10	0.020		14	0.49	2	9/30/13 23:40	WSD
Vinyl Chloride	0.21	0.10	0.043		0.54	0.26	2	9/30/13 23:40	WSD
m&p-Xylene	21	0.20	0.050		91	0.87	2	9/30/13 23:40	WSD
o-Xylene	6.3	0.10	0.029		27	0.43	2	9/30/13 23:40	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	9/30/13 23:40
4-Bromofluorobenzene (2)	104	70-130	9/30/13 23:40

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ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 9/26/2013
Field Sample #: SGMP-3
Sample ID: 13I0935-03
Sample Matrix: Soil Gas
Sampled: 9/20/2013 15:10

Sample Description/Location:
Sub Description/Location:
Canister ID: 1550
Canister Size: 1 liter
Flow Controller ID: 3187
Sample Type: 1 hr

Work Order: 13I0935
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): -.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	200	4.0	1.4	V-06	490	9.5	2	10/1/13 0:21	WSD
n-Butylbenzene	0.76	0.29	0.066		4.2	1.6	2	10/1/13 0:21	WSD
sec-Butylbenzene	0.18	0.23	0.078	J	0.99	1.3	2	10/1/13 0:21	WSD
tert-Butylbenzene	ND	0.23	0.086		ND	1.3	2	10/1/13 0:21	WSD
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	2	10/1/13 0:21	WSD
cis-1,2-Dichloroethylene	ND	0.10	0.038		ND	0.40	2	10/1/13 0:21	WSD
trans-1,2-Dichloroethylene	ND	0.10	0.026		ND	0.40	2	10/1/13 0:21	WSD
Ethylbenzene	7.2	0.10	0.028		31	0.43	2	10/1/13 0:21	WSD
Isopropylbenzene (Cumene)	0.76	0.25	0.080		3.7	1.2	2	10/1/13 0:21	WSD
p-Isopropyltoluene (p-Cymene)	0.31	0.23	0.068		1.7	1.3	2	10/1/13 0:21	WSD
Naphthalene	0.83	0.10	0.054	L-03	4.4	0.52	2	10/1/13 0:21	WSD
Propylbenzene	2.5	0.25	0.088		12	1.2	2	10/1/13 0:21	WSD
Tetrachloroethylene	140	1.0	0.28		980	6.8	20	9/28/13 21:14	WSD
Trichloroethylene	0.29	0.10	0.030		1.6	0.54	2	10/1/13 0:21	WSD
1,2,4-Trimethylbenzene	12	0.10	0.025		58	0.49	2	10/1/13 0:21	WSD
1,3,5-Trimethylbenzene	3.0	0.10	0.020		15	0.49	2	10/1/13 0:21	WSD
Vinyl Chloride	ND	0.10	0.043		ND	0.26	2	10/1/13 0:21	WSD
m&p-Xylene	31	0.20	0.050		130	0.87	2	10/1/13 0:21	WSD
o-Xylene	8.7	0.10	0.029		38	0.43	2	10/1/13 0:21	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.1	70-130	9/28/13 21:14
4-Bromofluorobenzene (1)	97.8	70-130	10/1/13 0:21
4-Bromofluorobenzene (2)	104	70-130	10/1/13 0:21

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ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 9/26/2013
Field Sample #: SGMP-4
Sample ID: 13I0935-04
Sample Matrix: Soil Gas
Sampled: 9/20/2013 14:50

Sample Description/Location:
Sub Description/Location:
Canister ID: 1546
Canister Size: 1 liter
Flow Controller ID: 3176
Sample Type: 1 hr

Work Order: 13I0935
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	77	4.0	1.4	V-06	180	9.5	2	10/1/13 1:02	WSD
n-Butylbenzene	0.45	0.29	0.066		2.5	1.6	2	10/1/13 1:02	WSD
sec-Butylbenzene	0.13	0.23	0.078	J	0.72	1.3	2	10/1/13 1:02	WSD
tert-Butylbenzene	ND	0.23	0.086		ND	1.3	2	10/1/13 1:02	WSD
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	2	10/1/13 1:02	WSD
cis-1,2-Dichloroethylene	ND	0.10	0.038		ND	0.40	2	10/1/13 1:02	WSD
trans-1,2-Dichloroethylene	ND	0.10	0.026		ND	0.40	2	10/1/13 1:02	WSD
Ethylbenzene	5.7	0.10	0.028		25	0.43	2	10/1/13 1:02	WSD
Isopropylbenzene (Cumene)	0.55	0.25	0.080		2.7	1.2	2	10/1/13 1:02	WSD
p-Isopropyltoluene (p-Cymene)	0.21	0.23	0.068	J	1.1	1.3	2	10/1/13 1:02	WSD
Naphthalene	0.51	0.10	0.054	L-03	2.7	0.52	2	10/1/13 1:02	WSD
Propylbenzene	1.6	0.25	0.088		8.0	1.2	2	10/1/13 1:02	WSD
Tetrachloroethylene	31	0.10	0.028		210	0.68	2	10/1/13 1:02	WSD
Trichloroethylene	0.11	0.10	0.030		0.61	0.54	2	10/1/13 1:02	WSD
1,2,4-Trimethylbenzene	7.2	0.10	0.025		35	0.49	2	10/1/13 1:02	WSD
1,3,5-Trimethylbenzene	2.1	0.10	0.020		10	0.49	2	10/1/13 1:02	WSD
Vinyl Chloride	ND	0.10	0.043		ND	0.26	2	10/1/13 1:02	WSD
m&p-Xylene	24	0.20	0.050		100	0.87	2	10/1/13 1:02	WSD
o-Xylene	6.3	0.10	0.029		27	0.43	2	10/1/13 1:02	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	99.8	70-130	10/1/13 1:02
4-Bromofluorobenzene (2)	105	70-130	10/1/13 1:02

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ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 9/26/2013
Field Sample #: SGMP-5
Sample ID: 13I0935-05
Sample Matrix: Soil Gas
Sampled: 9/20/2013 13:07

Sample Description/Location:
Sub Description/Location:
Canister ID: 1541
Canister Size: 1 liter
Flow Controller ID: 3019
Sample Type: 1 hr

Work Order: 13I0935
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -2
Receipt Vacuum(in Hg): -3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	590	40	14	L-05, V-06	1400	95	20	9/28/13 22:29	WSD
n-Butylbenzene	2.3	2.9	0.66	J	13	16	20	9/28/13 22:29	WSD
sec-Butylbenzene	2.3	2.3	0.78		13	13	20	9/28/13 22:29	WSD
tert-Butylbenzene	ND	2.3	0.86		ND	13	20	9/28/13 22:29	WSD
1,1-Dichloroethylene	10	1.0	0.24		40	4.0	20	9/28/13 22:29	WSD
cis-1,2-Dichloroethylene	900	1.0	0.38		3600	4.0	20	9/28/13 22:29	WSD
trans-1,2-Dichloroethylene	580	1.0	0.26		2300	4.0	20	9/28/13 22:29	WSD
Ethylbenzene	12	1.0	0.28		51	4.3	20	9/28/13 22:29	WSD
Isopropylbenzene (Cumene)	1.2	2.5	0.80	J	6.1	12	20	9/28/13 22:29	WSD
p-Isopropyltoluene (p-Cymene)	2.0	2.3	0.68	J	11	13	20	9/28/13 22:29	WSD
Naphthalene	2.4	1.0	0.54	L-03	12	5.2	20	9/28/13 22:29	WSD
Propylbenzene	ND	2.5	0.88		ND	12	20	9/28/13 22:29	WSD
Tetrachloroethylene	16	1.0	0.28		110	6.8	20	9/28/13 22:29	WSD
Trichloroethylene	37	1.0	0.30		200	5.4	20	9/28/13 22:29	WSD
1,2,4-Trimethylbenzene	27	1.0	0.25		130	4.9	20	9/28/13 22:29	WSD
1,3,5-Trimethylbenzene	8.3	1.0	0.20		41	4.9	20	9/28/13 22:29	WSD
Vinyl Chloride	38000	200	86		98000	510	4000	10/2/13 9:34	WSD
m&p-Xylene	50	2.0	0.50		220	8.7	20	9/28/13 22:29	WSD
o-Xylene	16	1.0	0.29		71	4.3	20	9/28/13 22:29	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	116	70-130	10/2/13 9:34
4-Bromofluorobenzene (1)	99.9	70-130	9/28/13 22:29
4-Bromofluorobenzene (2)	88.2	70-130	9/28/13 22:29

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ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 9/26/2013
Field Sample #: SGMP-6
Sample ID: 13I0935-06
Sample Matrix: Soil Gas
Sampled: 9/20/2013 16:50

Sample Description/Location:
Sub Description/Location:
Canister ID: 1563
Canister Size: 1 liter
Flow Controller ID: 3402
Sample Type: 1 hr

Work Order: 13I0935
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -2.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	ND	400	140		ND	950	200	10/1/13 5:11	WSD
n-Butylbenzene	560	29	6.6		3100	160	200	10/1/13 5:11	WSD
sec-Butylbenzene	2600	460	160		14000	2500	4000	10/3/13 23:14	WSD
tert-Butylbenzene	2100	460	170		12000	2500	4000	10/3/13 23:14	WSD
1,1-Dichloroethylene	11	10	2.4		44	40	200	10/1/13 5:11	WSD
cis-1,2-Dichloroethylene	760	10	3.8		3000	40	200	10/1/13 5:11	WSD
trans-1,2-Dichloroethylene	110	10	2.6		450	40	200	10/1/13 5:11	WSD
Ethylbenzene	74	10	2.8		320	43	200	10/1/13 5:11	WSD
Isopropylbenzene (Cumene)	2200	510	160		11000	2500	4000	10/3/13 23:14	WSD
p-Isopropyltoluene (p-Cymene)	20	23	6.8	J	110	130	200	10/1/13 5:11	WSD
Naphthalene	ND	10	5.4		ND	52	200	10/1/13 5:11	WSD
Propylbenzene	1600	510	180		8000	2500	4000	10/3/13 23:14	WSD
Tetrachloroethylene	650	10	2.8		4400	68	200	10/1/13 5:11	WSD
Trichloroethylene	350	10	3.0		1900	54	200	10/1/13 5:11	WSD
1,2,4-Trimethylbenzene	81	10	2.5		400	49	200	10/1/13 5:11	WSD
1,3,5-Trimethylbenzene	61	10	2.0		300	49	200	10/1/13 5:11	WSD
Vinyl Chloride	33000	200	86		85000	510	4000	10/3/13 23:14	WSD
m&p-Xylene	98	20	5.0		420	87	200	10/1/13 5:11	WSD
o-Xylene	85	10	2.9		370	43	200	10/1/13 5:11	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	10/1/13 5:11
4-Bromofluorobenzene (1)	105	70-130	10/3/13 23:14
4-Bromofluorobenzene (2)	81.0	70-130	10/1/13 5:11
4-Bromofluorobenzene (2)	104	70-130	10/3/13 23:14

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ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 9/26/2013
Field Sample #: SGMP-7
Sample ID: 13I0935-07
Sample Matrix: Soil Gas
Sampled: 9/20/2013 13:05

Sample Description/Location:
Sub Description/Location:
Canister ID: 1540
Canister Size: 1 liter
Flow Controller ID: 3018
Sample Type: 1 hr

Work Order: 13I0935
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	ND	4.0	1.4		ND	9.5	2	10/1/13 1:44	WSD
n-Butylbenzene	1.3	0.29	0.066		7.0	1.6	2	10/1/13 1:44	WSD
sec-Butylbenzene	0.34	0.23	0.078		1.8	1.3	2	10/1/13 1:44	WSD
tert-Butylbenzene	ND	0.23	0.086		ND	1.3	2	10/1/13 1:44	WSD
1,1-Dichloroethylene	2.0	0.10	0.024		8.0	0.40	2	10/1/13 1:44	WSD
cis-1,2-Dichloroethylene	350	8.0	3.0		1400	32	160	10/2/13 7:43	WSD
trans-1,2-Dichloroethylene	230	8.0	2.1		920	32	160	10/2/13 7:43	WSD
Ethylbenzene	8.7	0.10	0.028		38	0.43	2	10/1/13 1:44	WSD
Isopropylbenzene (Cumene)	0.98	0.25	0.080		4.8	1.2	2	10/1/13 1:44	WSD
p-Isopropyltoluene (p-Cymene)	ND	0.23	0.068		ND	1.3	2	10/1/13 1:44	WSD
Naphthalene	1.1	0.10	0.054	L-03	6.0	0.52	2	10/1/13 1:44	WSD
Propylbenzene	2.7	0.25	0.088		13	1.2	2	10/1/13 1:44	WSD
Tetrachloroethylene	1.5	0.10	0.028		10.0	0.68	2	10/1/13 1:44	WSD
Trichloroethylene	8.4	0.10	0.030		45	0.54	2	10/1/13 1:44	WSD
1,2,4-Trimethylbenzene	13	0.10	0.025		63	0.49	2	10/1/13 1:44	WSD
1,3,5-Trimethylbenzene	3.4	0.10	0.020		17	0.49	2	10/1/13 1:44	WSD
Vinyl Chloride	5400	8.0	3.4		14000	20	160	10/2/13 7:43	WSD
m&p-Xylene	37	0.20	0.050		160	0.87	2	10/1/13 1:44	WSD
o-Xylene	12	0.10	0.029		52	0.43	2	10/1/13 1:44	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.5	70-130	10/2/13 7:43
4-Bromofluorobenzene (1)	101	70-130	10/1/13 1:44
4-Bromofluorobenzene (2)	101	70-130	10/1/13 1:44

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ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 9/26/2013
Field Sample #: SGMP-8
Sample ID: 13I0935-08
Sample Matrix: Soil Gas
Sampled: 9/20/2013 15:44

Sample Description/Location:
Sub Description/Location:
Canister ID: 1552
Canister Size: 1 liter
Flow Controller ID: 3208
Sample Type: 1 hr

Work Order: 13I0935
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -1
Receipt Vacuum(in Hg): -1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	56	4.0	1.4	V-06	130	9.5	2	10/1/13 2:25	WSD
n-Butylbenzene	0.12	0.29	0.066	J	0.67	1.6	2	10/1/13 2:25	WSD
sec-Butylbenzene	0.14	0.23	0.078	J	0.75	1.3	2	10/1/13 2:25	WSD
tert-Butylbenzene	ND	0.23	0.086		ND	1.3	2	10/1/13 2:25	WSD
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	2	10/1/13 2:25	WSD
cis-1,2-Dichloroethylene	0.056	0.10	0.038	J	0.22	0.40	2	10/1/13 2:25	WSD
trans-1,2-Dichloroethylene	ND	0.10	0.026		ND	0.40	2	10/1/13 2:25	WSD
Ethylbenzene	3.1	0.10	0.028		13	0.43	2	10/1/13 2:25	WSD
Isopropylbenzene (Cumene)	0.34	0.25	0.080		1.7	1.2	2	10/1/13 2:25	WSD
p-Isopropyltoluene (p-Cymene)	0.15	0.23	0.068	J	0.82	1.3	2	10/1/13 2:25	WSD
Naphthalene	0.59	0.10	0.054	L-03	3.1	0.52	2	10/1/13 2:25	WSD
Propylbenzene	1.2	0.25	0.088		6.0	1.2	2	10/1/13 2:25	WSD
Tetrachloroethylene	120	1.0	0.28		820	6.8	20	9/29/13 0:22	WSD
Trichloroethylene	0.41	0.10	0.030		2.2	0.54	2	10/1/13 2:25	WSD
1,2,4-Trimethylbenzene	6.1	0.10	0.025		30	0.49	2	10/1/13 2:25	WSD
1,3,5-Trimethylbenzene	1.5	0.10	0.020		7.3	0.49	2	10/1/13 2:25	WSD
Vinyl Chloride	0.19	0.10	0.043		0.49	0.26	2	10/1/13 2:25	WSD
m&p-Xylene	14	0.20	0.050		61	0.87	2	10/1/13 2:25	WSD
o-Xylene	3.9	0.10	0.029		17	0.43	2	10/1/13 2:25	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.1	70-130	9/29/13 0:22
4-Bromofluorobenzene (1)	97.9	70-130	10/1/13 2:25
4-Bromofluorobenzene (2)	103	70-130	10/1/13 2:25

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ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 9/26/2013
Field Sample #: SGMP-9
Sample ID: 13I0935-09
Sample Matrix: Soil Gas
Sampled: 9/20/2013 16:08

Sample Description/Location:
Sub Description/Location:
Canister ID: 1558
Canister Size: 1 liter
Flow Controller ID: 3426
Sample Type: 1 hr

Work Order: 13I0935
Initial Vacuum(in Hg): -28.5
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): -1.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	130	4.0	1.4	V-06	300	9.5	2	10/1/13 3:49	WSD
n-Butylbenzene	0.59	0.29	0.066		3.2	1.6	2	10/1/13 3:49	WSD
sec-Butylbenzene	0.14	0.23	0.078	J	0.75	1.3	2	10/1/13 3:49	WSD
tert-Butylbenzene	ND	0.23	0.086		ND	1.3	2	10/1/13 3:49	WSD
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	2	10/1/13 3:49	WSD
cis-1,2-Dichloroethylene	ND	0.10	0.038		ND	0.40	2	10/1/13 3:49	WSD
trans-1,2-Dichloroethylene	ND	0.10	0.026		ND	0.40	2	10/1/13 3:49	WSD
Ethylbenzene	4.9	0.10	0.028		21	0.43	2	10/1/13 3:49	WSD
Isopropylbenzene (Cumene)	0.54	0.25	0.080		2.7	1.2	2	10/1/13 3:49	WSD
p-Isopropyltoluene (p-Cymene)	0.25	0.23	0.068		1.4	1.3	2	10/1/13 3:49	WSD
Naphthalene	0.68	0.10	0.054	L-03	3.6	0.52	2	10/1/13 3:49	WSD
Propylbenzene	1.9	0.25	0.088		9.5	1.2	2	10/1/13 3:49	WSD
Tetrachloroethylene	490	1.0	0.28		3300	6.8	20	9/29/13 1:00	WSD
Trichloroethylene	0.44	0.10	0.030		2.4	0.54	2	10/1/13 3:49	WSD
1,2,4-Trimethylbenzene	8.8	0.10	0.025		43	0.49	2	10/1/13 3:49	WSD
1,3,5-Trimethylbenzene	2.2	0.10	0.020		11	0.49	2	10/1/13 3:49	WSD
Vinyl Chloride	ND	0.10	0.043		ND	0.26	2	10/1/13 3:49	WSD
m&p-Xylene	21	0.20	0.050		90	0.87	2	10/1/13 3:49	WSD
o-Xylene	6.1	0.10	0.029		27	0.43	2	10/1/13 3:49	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.0	70-130	9/29/13 1:00
4-Bromofluorobenzene (1)	97.8	70-130	10/1/13 3:49
4-Bromofluorobenzene (2)	103	70-130	10/1/13 3:49

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ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 9/26/2013
Field Sample #: SSVP-1
Sample ID: 13I0935-10
Sample Matrix: Sub Slab
Sampled: 9/23/2013 15:50

Sample Description/Location:
Sub Description/Location:
Canister ID: 1893
Canister Size: 1 liter
Flow Controller ID: 3101
Sample Type: 1 hr

Work Order: 13I0935
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	45	4.0	1.4	V-06	110	9.5	2	10/1/13 3:08	WSD
n-Butylbenzene	ND	0.29	0.066		ND	1.6	2	10/1/13 3:08	WSD
sec-Butylbenzene	ND	0.23	0.078		ND	1.3	2	10/1/13 3:08	WSD
tert-Butylbenzene	ND	0.23	0.086		ND	1.3	2	10/1/13 3:08	WSD
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	2	10/1/13 3:08	WSD
cis-1,2-Dichloroethylene	40	0.10	0.038		160	0.40	2	10/1/13 3:08	WSD
trans-1,2-Dichloroethylene	8.9	0.10	0.026		35	0.40	2	10/1/13 3:08	WSD
Ethylbenzene	0.12	0.10	0.028		0.50	0.43	2	10/1/13 3:08	WSD
Isopropylbenzene (Cumene)	ND	0.25	0.080		ND	1.2	2	10/1/13 3:08	WSD
p-Isopropyltoluene (p-Cymene)	ND	0.23	0.068		ND	1.3	2	10/1/13 3:08	WSD
Naphthalene	0.064	0.10	0.054	L-03, J	0.34	0.52	2	10/1/13 3:08	WSD
Propylbenzene	ND	0.25	0.088		ND	1.2	2	10/1/13 3:08	WSD
Tetrachloroethylene	29	0.10	0.028		200	0.68	2	10/1/13 3:08	WSD
Trichloroethylene	18	0.10	0.030		97	0.54	2	10/1/13 3:08	WSD
1,2,4-Trimethylbenzene	0.14	0.10	0.025		0.68	0.49	2	10/1/13 3:08	WSD
1,3,5-Trimethylbenzene	0.060	0.10	0.020	J	0.29	0.49	2	10/1/13 3:08	WSD
Vinyl Chloride	0.23	0.10	0.043		0.60	0.26	2	10/1/13 3:08	WSD
m&p-Xylene	0.42	0.20	0.050		1.8	0.87	2	10/1/13 3:08	WSD
o-Xylene	0.16	0.10	0.029		0.68	0.43	2	10/1/13 3:08	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	98.2	70-130	10/1/13 3:08
4-Bromofluorobenzene (2)	103	70-130	10/1/13 3:08

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ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 9/26/2013
Field Sample #: SSVP-2
Sample ID: 13I0935-11
Sample Matrix: Sub Slab
Sampled: 9/23/2013 16:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1907
Canister Size: 1 liter
Flow Controller ID: 3155
Sample Type: 1 hr

Work Order: 13I0935
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -3.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	310	40	14	L-05, V-06	730	95	20	9/29/13 3:31	WSD
n-Butylbenzene	1.2	2.9	0.66	J	6.6	16	20	9/29/13 3:31	WSD
sec-Butylbenzene	ND	2.3	0.78		ND	13	20	9/29/13 3:31	WSD
tert-Butylbenzene	ND	2.3	0.86		ND	13	20	9/29/13 3:31	WSD
1,1-Dichloroethylene	ND	1.0	0.24		ND	4.0	20	9/29/13 3:31	WSD
cis-1,2-Dichloroethylene	770	1.0	0.38		3000	4.0	20	9/29/13 3:31	WSD
trans-1,2-Dichloroethylene	140	1.0	0.26		550	4.0	20	9/29/13 3:31	WSD
Ethylbenzene	3.0	1.0	0.28		13	4.3	20	9/29/13 3:31	WSD
Isopropylbenzene (Cumene)	ND	2.5	0.80		ND	12	20	9/29/13 3:31	WSD
p-Isopropyltoluene (p-Cymene)	ND	2.3	0.68		ND	13	20	9/29/13 3:31	WSD
Naphthalene	1.7	1.0	0.54	L-03	8.8	5.2	20	9/29/13 3:31	WSD
Propylbenzene	ND	2.5	0.88		ND	12	20	9/29/13 3:31	WSD
Tetrachloroethylene	12000	20	5.7		79000	140	400	9/30/13 22:20	WSD
Trichloroethylene	1800	20	5.9		9800	110	400	9/30/13 22:20	WSD
1,2,4-Trimethylbenzene	2.8	1.0	0.25		14	4.9	20	9/29/13 3:31	WSD
1,3,5-Trimethylbenzene	1.0	1.0	0.20		4.9	4.9	20	9/29/13 3:31	WSD
Vinyl Chloride	ND	1.0	0.43		ND	2.6	20	9/29/13 3:31	WSD
m&p-Xylene	12	2.0	0.50		52	8.7	20	9/29/13 3:31	WSD
o-Xylene	3.3	1.0	0.29		14	4.3	20	9/29/13 3:31	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	9/30/13 22:20
4-Bromofluorobenzene (1)	98.6	70-130	9/29/13 3:31
4-Bromofluorobenzene (2)	103	70-130	9/29/13 3:31

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Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
13I0935-01RE1 [SGMP-1]	B082109	2	100	10	1000	400	100	09/30/13
13I0935-02 [SGMP-2]	B082109	2	1	N/A	1000	400	400	09/30/13
13I0935-03 [SGMP-3]	B082109	2	1	N/A	1000	400	400	09/30/13
13I0935-04 [SGMP-4]	B082109	2	1	N/A	1000	400	400	09/30/13
13I0935-06 [SGMP-6]	B082109	2	100	10	1000	400	400	09/30/13
13I0935-07 [SGMP-7]	B082109	2	1	N/A	1000	400	400	09/30/13
13I0935-08 [SGMP-8]	B082109	2	1	N/A	1000	400	400	09/30/13
13I0935-09 [SGMP-9]	B082109	2	1	N/A	1000	400	400	09/30/13
13I0935-10 [SSVP-1]	B082109	2	1	N/A	1000	400	400	09/30/13
13I0935-11RE1 [SSVP-2]	B082109	2	100	10	1000	400	200	09/30/13

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
13I0935-01 [SGMP-1]	B082111	2	1	N/A	1000	400	40	09/28/13
13I0935-03RE1 [SGMP-3]	B082111	2	1	N/A	1000	400	40	09/28/13
13I0935-05 [SGMP-5]	B082111	2	1	N/A	1000	400	40	09/28/13
13I0935-08RE1 [SGMP-8]	B082111	2	1	N/A	1000	400	40	09/28/13
13I0935-09RE1 [SGMP-9]	B082111	2	1	N/A	1000	400	40	09/28/13
13I0935-11 [SSVP-2]	B082111	2	1	N/A	1000	400	40	09/28/13

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
13I0935-05RE1 [SGMP-5]	B082113	2	100	10	1000	400	20	10/01/13
13I0935-07RE1 [SGMP-7]	B082113	4	1	N/A	1000	400	10	10/01/13

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
13I0935-06RE1 [SGMP-6]	B082276	2	100	10	1000	400	20	10/03/13

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B082109 - TO-15 Prep												
Blank (B082109-BLK1)					Prepared & Analyzed: 09/30/13							
Acetone	ND	1.0										
n-Butylbenzene	ND	0.072										
sec-Butylbenzene	ND	0.057										
tert-Butylbenzene	ND	0.057										
1,1-Dichloroethylene	ND	0.025										
cis-1,2-Dichloroethylene	ND	0.025										
trans-1,2-Dichloroethylene	ND	0.025										
Ethylbenzene	ND	0.025										
Isopropylbenzene (Cumene)	ND	0.064										
p-Isopropyltoluene (p-Cymene)	ND	0.057										
Naphthalene	ND	0.025										L-03
Propylbenzene	ND	0.064										
Tetrachloroethylene	ND	0.025										
Trichloroethylene	ND	0.025										
1,2,4-Trimethylbenzene	ND	0.025										
1,3,5-Trimethylbenzene	ND	0.025										
Vinyl Chloride	ND	0.025										
m&p-Xylene	ND	0.050										
o-Xylene	ND	0.025										
Surrogate: 4-Bromofluorobenzene (1)	*8.22*				*8.00*		*103*		*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*8.69*				*8.00*		*109*		*70-130*			
LCS (B082109-BS1)					Prepared & Analyzed: 09/30/13							
Acetone	6.23				5.00		125		70-130			V-06
n-Butylbenzene	1.24				1.14		108		70-130			
sec-Butylbenzene	1.44				1.14		126		70-130			
tert-Butylbenzene	1.48				1.14		130		70-130			
1,1-Dichloroethylene	4.60				5.00		92.0		70-130			
cis-1,2-Dichloroethylene	4.70				5.00		93.9		70-130			
trans-1,2-Dichloroethylene	4.73				5.00		94.5		70-130			
Ethylbenzene	4.98				5.00		99.7		70-130			
Isopropylbenzene (Cumene)	1.55				1.27		122		70-130			
p-Isopropyltoluene (p-Cymene)	1.42				1.14		124		70-130			
Naphthalene	2.96				5.00		**59.2**	*	70-130			L-03
Propylbenzene	1.59				1.27		126		70-130			
Tetrachloroethylene	5.28				5.00		106		70-130			
Trichloroethylene	4.18				5.00		83.5		70-130			
1,2,4-Trimethylbenzene	5.02				5.00		100		70-130			
1,3,5-Trimethylbenzene	5.22				5.00		104		70-130			
Vinyl Chloride	5.02				5.00		100		70-130			
m&p-Xylene	10.4				10.0		104		70-130			
o-Xylene	4.91				5.00		98.1		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.11*				*8.00*		*101*		*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*8.50*				*8.00*		*106*		*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B082109 - TO-15 Prep											
Duplicate (B082109-DUP1)			**Source: 13I0935-11RE1**		Prepared & Analyzed: 09/30/13						
Acetone	680	800	1600	1900		880			26.2	25	J
n-Butylbenzene	ND	58	ND	320		ND				25	
sec-Butylbenzene	ND	46	ND	250		ND				25	
tert-Butylbenzene	ND	46	ND	250		ND				25	
1,1-Dichloroethylene	ND	20	ND	79		ND				25	
cis-1,2-Dichloroethylene	1100	20	4500	79		1100			2.55	25	
trans-1,2-Dichloroethylene	180	20	710	79		ND				25	
Ethylbenzene	ND	20	ND	87		ND				25	
Isopropylbenzene (Cumene)	ND	51	ND	250		ND				25	
p-Isopropyltoluene (p-Cymene)	ND	46	ND	250		ND				25	
Naphthalene	ND	20	ND	100		ND				25	
Propylbenzene	ND	51	ND	250		ND				25	
Tetrachloroethylene	12000	20	82000	140		12000			4.75	25	
Trichloroethylene	1800	20	9900	110		1800			1.07	25	
1,2,4-Trimethylbenzene	ND	20	ND	98		ND				25	
1,3,5-Trimethylbenzene	ND	20	ND	98		ND				25	
Vinyl Chloride	ND	20	ND	51		ND				25	
m&p-Xylene	22	40	94	170		ND				25	J
o-Xylene	ND	20	ND	87		ND				25	
Surrogate: 4-Bromofluorobenzene (1)	*7.95*				*8.00*		*99.4*	*70-130*			
Batch B082111 - TO-15 Prep											
Blank (B082111-BLK1)					Prepared & Analyzed: 09/28/13						
Acetone	ND	1.0									
n-Butylbenzene	ND	0.072									
sec-Butylbenzene	ND	0.057									
tert-Butylbenzene	ND	0.057									
1,1-Dichloroethylene	ND	0.025									
cis-1,2-Dichloroethylene	ND	0.025									
trans-1,2-Dichloroethylene	ND	0.025									
Ethylbenzene	ND	0.025									
Isopropylbenzene (Cumene)	ND	0.064									
p-Isopropyltoluene (p-Cymene)	ND	0.057									
Naphthalene	ND	0.025									L-03
Propylbenzene	ND	0.064									
Tetrachloroethylene	ND	0.025									
Trichloroethylene	ND	0.025									
1,2,4-Trimethylbenzene	ND	0.025									
1,3,5-Trimethylbenzene	ND	0.025									
Vinyl Chloride	ND	0.025									
m&p-Xylene	ND	0.050									
o-Xylene	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	*7.78*				*8.00*		*97.2*	*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*7.60*				*8.00*		*95.0*	*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B082111 - TO-15 Prep												
LCS (B082111-BS1)					Prepared & Analyzed: 09/28/13							
Acetone	6.55				5.00		**131**	*	70-130			L-05, V-06
n-Butylbenzene	1.14				1.14		99.9		70-130			
sec-Butylbenzene	1.24				1.14		108		70-130			
tert-Butylbenzene	1.26				1.14		110		70-130			
1,1-Dichloroethylene	4.67				5.00		93.3		70-130			
cis-1,2-Dichloroethylene	4.67				5.00		93.4		70-130			
trans-1,2-Dichloroethylene	4.71				5.00		94.1		70-130			
Ethylbenzene	4.84				5.00		96.9		70-130			
Isopropylbenzene (Cumene)	1.41				1.27		111		70-130			
p-Isopropyltoluene (p-Cymene)	1.19				1.14		105		70-130			
Naphthalene	2.84				5.00		**56.8**	*	70-130			L-03
Propylbenzene	1.40				1.27		110		70-130			
Tetrachloroethylene	4.94				5.00		98.9		70-130			
Trichloroethylene	4.37				5.00		87.5		70-130			
1,2,4-Trimethylbenzene	4.63				5.00		92.6		70-130			
1,3,5-Trimethylbenzene	4.89				5.00		97.8		70-130			
Vinyl Chloride	5.54				5.00		111		70-130			
m&p-Xylene	10.0				10.0		100		70-130			
o-Xylene	4.75				5.00		95.0		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*7.92*				*8.00*		*99.1*		*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*7.89*				*8.00*		*98.7*		*70-130*			
Duplicate (B082111-DUP1)		**Source: 13I0935-11**			Prepared: 09/28/13 Analyzed: 09/29/13							
Acetone	320	40	770	95		310				4.66	25	L-05, V-06
n-Butylbenzene	ND	2.9	ND	16		1.2					25	
sec-Butylbenzene	ND	2.3	ND	13		ND					25	
tert-Butylbenzene	ND	2.3	ND	13		ND					25	
1,1-Dichloroethylene	ND	1.0	ND	4.0		ND					25	
cis-1,2-Dichloroethylene	770	1.0	3100	4.0		770				1.11	25	
trans-1,2-Dichloroethylene	140	1.0	550	4.0		140				0.405	25	
Ethylbenzene	3.3	1.0	14	4.3		3.0				9.46	25	
Isopropylbenzene (Cumene)	ND	2.5	ND	12		ND					25	
p-Isopropyltoluene (p-Cymene)	ND	2.3	ND	13		ND					25	
Naphthalene	1.7	1.0	9.0	5.2		1.7				2.35	25	L-03
Propylbenzene	ND	2.5	ND	12		ND					25	
Tetrachloroethylene	2200	1.0	15000	6.8		2200				0.650	25	
Trichloroethylene	1100	1.0	5900	5.4		1100				2.86	25	
1,2,4-Trimethylbenzene	3.1	1.0	15	4.9		2.8				8.87	25	
1,3,5-Trimethylbenzene	1.1	1.0	5.6	4.9		1.0				13.1	25	
Vinyl Chloride	ND	1.0	ND	2.6		ND					25	
m&p-Xylene	13	2.0	56	8.7		12				7.24	25	
o-Xylene	3.4	1.0	15	4.3		3.3				3.61	25	
Surrogate: 4-Bromofluorobenzene (1)	*7.93*				*8.00*		*99.1*		*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*8.27*				*8.00*		*103*		*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B082113 - TO-15 Prep											
Blank (B082113-BLK1)					Prepared & Analyzed: 10/01/13						
cis-1,2-Dichloroethylene	ND	0.025									
trans-1,2-Dichloroethylene	ND	0.025									
Vinyl Chloride	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	*8.51*				*8.00*		*106*	*70-130*			
LCS (B082113-BS1)					Prepared & Analyzed: 10/01/13						
cis-1,2-Dichloroethylene	4.64				5.00		92.9	70-130			
trans-1,2-Dichloroethylene	4.64				5.00		92.8	70-130			
Vinyl Chloride	5.08				5.00		102	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.79*				*8.00*		*110*	*70-130*			
Batch B082276 - TO-15 Prep											
Blank (B082276-BLK1)					Prepared & Analyzed: 10/03/13						
sec-Butylbenzene	ND	0.057									
tert-Butylbenzene	ND	0.057									
Isopropylbenzene (Cumene)	ND	0.064									
Propylbenzene	ND	0.064									
Vinyl Chloride	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	*7.84*				*8.00*		*98.0*	*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*7.65*				*8.00*		*95.6*	*70-130*			
LCS (B082276-BS1)					Prepared & Analyzed: 10/03/13						
sec-Butylbenzene	1.10				1.14		96.7	70-130			
tert-Butylbenzene	1.16				1.14		102	70-130			
Isopropylbenzene (Cumene)	1.21				1.27		95.4	70-130			
Propylbenzene	1.23				1.27		96.9	70-130			
Vinyl Chloride	5.70				5.00		114	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.14*				*8.00*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*8.13*				*8.00*		*102*	*70-130*			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	NY
1,1-Dichloroethylene	AIHA,FL,NJ,NY,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,VA
Ethylbenzene	AIHA,FL,NJ,NY,VA
Isopropylbenzene (Cumene)	AIHA,NJ,NY
Naphthalene	NY
Tetrachloroethylene	AIHA,FL,NJ,NY,VA
Trichloroethylene	AIHA,FL,NJ,NY,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY
1,3,5-Trimethylbenzene	AIHA,NJ,NY
Vinyl Chloride	AIHA,FL,NJ,NY,VA
m&p-Xylene	AIHA,FL,NJ,NY,VA
o-Xylene	AIHA,FL,NJ,NY,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

AIR SAMPLE CHAIN OF CUSTODY RECORD

1310935

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

Page 1 of 2

Company Name: Hart & Hickman
Address: 3334 Hillsborough
Raleigh NC 27607

Telephone: (919) 847 4241
Project # DSO-79
Client PO # DSO-79

Attention:

Project Location: Rollins Economy Cleaners
Sampled By: Matt Gillis

DATA DELIVERY (check one):
☐ FAX ☑ EMAIL ☐ WEBSITE CLIENT
Fax # :
Email: TClotz@hartdickman
Format: ☐ EXCEL ☑ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

ANALYSIS REQUESTED

TO-15

Field ID	Sample Description	Media	Lab # Date	Date Sampled Start Date Time	Date Sampled Stop Date Time	ONLY USE WHEN USING PUMPS Total Minutes Sampled	Flow Rate M^3/Min. or L / Min.	Volume Liters or M^3	Matrix Code*	TO-15	" Hg Initial pressure	" Hg Final Pressure	Lab Receipt Pressure	Summa Canister ID	Flow Control ID
01	SGMP-1	S	9/20/13	1330	1440				SG	X	-27	-2	-2.6	1542	304
02	SGMP-2			1314	1425					X	-30	-3	-1.7	1544	320
03	SGMP-3			1400	1510					X	-28	0	-.9	1550	318
04	SGMP-4			1345	1450					X	-28	0	0	1546	317
05	SGMP-5			1200	1307					X	-28	-2	-3	1541	301
06	SGMP-6			1530	1650					X	-30	-4	-2.3	1563	340
07	SGMP-7			1154	1305					X	-30	-3	-3	1540	3015
08	SGMP-8			1440	1544					X	-30	-1	-1	1552	3208

Laboratory Comments: Please analyze for client specified List provided to Lisa Worthington via email 9/24/13

CLIENT COMMENTS:

Relinquished by: (signature)	Date/Time:
Matt Gillis	9/24/13
Received by: (signature) Paula Blake	Date/Time: 9.26.13 9:45
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☒ 7-Day
☐ 10-Day
☐ Other ___

RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations:
Data Enhancement/RCP? ☐ Y ☐ N
Enhanced Data Package ☐ Y ☐ N
(Surchage Applies)
Required Detection Limits:
Other:

***Matrix Code:**
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other

****Media Codes:**
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

Please fill out completely, sign, da and retain the yellow copy for your record

Summa canisters ar flow controllers mus returned within 14 d of receipt or rental f will apply.

Summa canisters wi retained for a minim of 14 days after sampling date prior cleaning.

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AIR SAMPLE CHAIN OF CUSTODY RECORD

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

Company Name: Hart + Hickman
Address: 3334 Hillsborough
Raleigh NC 27607
Attention:
Project Location: Rollins Economy Cleaners
Sampled By: Matt Gillis

Telephone: (919) 847 4241
Project # DSO-79
Client PO # DSO-79

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT
Fax # :
Email: TClotz@hanthickman
Format: ☐ EXCEL ☑ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	ONLY USE WHEN USING PUMPS Total Minutes Sampled	Flow Rate M^3/Min. or L / Min.	Volume Liters or M^3	Matrix Code*	ANALYSIS REQUESTED TO-15	" Hg Initial pressure	" Hg Final Pressure	" Hg Lab Receipt Pressure	Summa Canister ID	Flow Control ID
09	SGMP-9	S		9/20/13 1500	9/20/13 1608				SG	X	-28.5	0	-7	1558	342
10	SSVP-1	↓		9/23/13 1455	9/23/13 1550				SS	X	-29	0	0	1893	31
11	SSVP-2	↓		9/23/13 1505	9/23/13 1615				SS	X	-28	-3	-3	1907	319

Please fill out completely, sign, da and retain the yello copy for your record
Summa canisters a flow controllers mu returned within 14 d of receipt or rental f will apply.
Summa canisters w retained for a minim of 14 days after sampling date prior cleaning.

Laboratory Comments: ★ Please analyze for client specified List
Email Provided to Lisa Worthington 9/24/13

CLIENT COMMENTS:

Relinquished by: (signature)	Date/Time:
Matt Gillis	9/24/13
Received by: (signature)	Date/Time:
Paula	9.26.13
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☒ 7-Day
☐ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations:_____
Data Enhancement/RCP? ☐ Y ☐ N
Enhanced Data Package ☐ Y ☐ N
(Surchage Applies)
Required Detection Limits:_____
Other:_____

***Matrix Code:**
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other_____

****Media Codes:**
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other_____

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

FedEx

796759353811

Ship (P/U) date :
Tues 9/24/2013 4:46 pm
Raleigh, NC US

Delivered
Signed for by: P BLAKE

Actual delivery :
Thur 9/26/2013 9:45 am
EAST LONGMEADOW, MA US

1 Piece shipment

Travel History

Date/Time	Activity	Location
- 9/26/2013 - Thursday		
9:45 am	Delivered	EAST LONGMEADOW, MA
8:04 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:49 am	At local FedEx facility	WINDSOR LOCKS, CT
- 9/25/2013 - Wednesday		
4:32 pm	At destination sort facility	EAST GRANBY, CT
1:00 pm	Departed FedEx location	NEWARK, NJ
9:37 am	Arrived at FedEx location	NEWARK, NJ
- 9/24/2013 - Tuesday		
8:50 pm	Left FedEx origin facility	RALEIGH, NC
4:46 pm	Picked up	RALEIGH, NC
2:45 pm	Shipment information sent to FedEx	

Local Scan Time

Shipment Facts

Tracking number	796759353811	**Service**	FedEx 2Day
Master tracking number	796759353811	**Weight**	30 lbs
Dimensions	22x19x14 in.	**Delivered To**	Receptionist/Front Desk
Total pieces	1	**Total shipment weight**	55 lbs / 24.9 kgs
Department number	DSO-79	**Shipper reference**	DSO-79
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

Login Sample Receipt Checklist

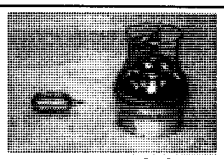
(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	NA	
3) Samples were received on ice.	NA	
4) Cooler Temperature is acceptable.	NA	
5) Cooler Temperature is recorded.	NA	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Log-In Technician Initials: PB **Date/Time:** 9-26-13 9:45



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AIR Only Receipt Checklist

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

CLIENT NAME: Hart + Hickman RECEIVED BY: PB DATE: 9.26.13

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? (Yes) No
If not, explain:

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) Are there any samples "On Hold"? Yes (No) Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified _____ Date _____ Time _____

6) Location where samples are stored: log in

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

7) Temperature °C by Temp blank _____ Temperature °C by Temp gun _____

Containers received at Con-Test

	# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)	11	1 Lit
Tedlar Bags		
TO-17 Tubes		
Regulators	11	1 hr
Restrictors		
Hg/Hopcalite Tube (NIOSH 6009)		
(TO-4A/ TO-10A/TO-13) PUFs		
PCB Florisil Tubes (NIOSH 5503)		
Air cassette		
PM 2.5/PM 10		
TO-11A Cartridges		
Other		

Unused Summas/PUF Media:

Unused Regulators:

1) Was all media (used & unused) checked into the WASP?

2) Were all returned summa cans, Restrictors & Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments: 1542 1541 1558 / 3019 3155 3202
1544 1563 1893 / 3018 3176 3101
1550 1540 1907 / 3208 3187 3402
1546 1552 / 3426 3042

Lisa Worthington

From: Timothy Klotz [tklotz@harthickman.com]
Sent: Tuesday, September 24, 2013 11:21 AM
To: Lisa Worthington
Subject: RE: Canister order - DS0-79

No problem. For the analyte list, I don't have all the compounds listed on the chain, so hopefully the email is sufficient.

Thanks,

Tim

From: Lisa Worthington [mailto:lisa.worthington@contestlabs.com]
Sent: Tuesday, September 24, 2013 11:20 AM
To: Timothy Klotz
Subject: RE: Canister order - DS0-79

OK thanks for the heads up. I appreciate it.

From: Timothy Klotz [mailto:tklotz@harthickman.com]
Sent: Tuesday, September 24, 2013 11:16 AM
To: Lisa Worthington
Subject: RE: Canister order - DS0-79

Lisa

We will ship these canisters today for delivery in the next day or two. For this project, we would like to analyze for the following list by TO-15:

- PCE
- TCE
- Cis-1,2-DCE
- Trans-1,2-DCE
- Vinyl chloride
- Naphthalene
- Cumene
- 1,2,4-trimethylbenzene
- 1,3,5-trimethylbenzene
- Acetone
- Ethylbenzene
- N-butylbenzene
- N-propylbenzene
- Sec-butylbenzene
- Tert-butylbenzene
- P-isopropyltoluene
- Total xylenes
- 1,1-dichloroethyelene

In addition, we will be shipping a canister that has been sitting in the office for some time now. I don't know much about it other than it was for one of Leo's projects that fell through (i.e., no sample in the canister). Please invoice any charges for this extra can to whatever project it was ordered for. Let me know if you need help tracking that info down.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 15, 2013

Tim Klotz
Hart & Hickman - Raleigh, NC
3334 Hillsborough Street
Raleigh, NC 27607

Project Location: Rollins Economy Cleaners
Client Job Number:
Project Number: DS0-79
Laboratory Work Order Number: 13J0340

Enclosed are results of analyses for samples received by the laboratory on October 7, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Hart & Hickman - Raleigh, NC
3334 Hillsborough Street
Raleigh, NC 27607
ATTN: Tim Klotz

REPORT DATE: 10/15/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: DS0-79

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13J0340

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Rollins Economy Cleaners

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SSVP-3	13J0340-01	Sub Slab		EPA TO-15	
SSVP-4	13J0340-02	Sub Slab		EPA TO-15	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15

Qualifications:

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Naphthalene

13J0340-01[SSVP-3], 13J0340-02[SSVP-4], B082643-BLK1, B082643-BS1

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Acetone

13J0340-01[SSVP-3], 13J0340-02[SSVP-4], B082643-BS1

Elevated reporting limit due to high concentration of non-target compounds. Requested reporting limit not met.

Analyte & Samples(s) Qualified:

13J0340-01[SSVP-3], 13J0340-02[SSVP-4]

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Acetone

13J0340-01[SSVP-3], 13J0340-02[SSVP-4], B082643-BS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 10/7/2013
Field Sample #: SSVP-3
Sample ID: 13J0340-01
Sample Matrix: Sub Slab
Sampled: 10/2/2013 17:20

Sample Description/Location:
Sub Description/Location:
Canister ID: 1417
Canister Size: 1 liter
Flow Controller ID: 3245
Sample Type: 1 hr

Work Order: 13J0340
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -1
Receipt Vacuum(in Hg): -4.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: RL-02

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	1800	80	28	L-05, V-06	4400	190	40	10/10/13 5:07	TPH
n-Butylbenzene	ND	5.8	1.3		ND	32	40	10/10/13 5:07	TPH
sec-Butylbenzene	ND	4.6	1.6		ND	25	40	10/10/13 5:07	TPH
tert-Butylbenzene	ND	4.6	1.7		ND	25	40	10/10/13 5:07	TPH
1,1-Dichloroethylene	ND	2.0	0.49		ND	7.9	40	10/10/13 5:07	TPH
cis-1,2-Dichloroethylene	ND	2.0	0.76		ND	7.9	40	10/10/13 5:07	TPH
trans-1,2-Dichloroethylene	ND	2.0	0.53		ND	7.9	40	10/10/13 5:07	TPH
Ethylbenzene	2.8	2.0	0.55		12	8.7	40	10/10/13 5:07	TPH
Isopropylbenzene (Cumene)	ND	5.1	1.6		ND	25	40	10/10/13 5:07	TPH
p-Isopropyltoluene (p-Cymene)	ND	4.6	1.4		ND	25	40	10/10/13 5:07	TPH
Naphthalene	ND	2.0	1.1	L-03	ND	10	40	10/10/13 5:07	TPH
Propylbenzene	ND	5.1	1.8		ND	25	40	10/10/13 5:07	TPH
Tetrachloroethylene	290	2.0	0.57		1900	14	40	10/10/13 5:07	TPH
Trichloroethylene	3.7	2.0	0.59		20	11	40	10/10/13 5:07	TPH
1,2,4-Trimethylbenzene	9.5	2.0	0.49		47	9.8	40	10/10/13 5:07	TPH
1,3,5-Trimethylbenzene	5.9	2.0	0.40		29	9.8	40	10/10/13 5:07	TPH
Vinyl Chloride	ND	2.0	0.86		ND	5.1	40	10/10/13 5:07	TPH
m&p-Xylene	11	4.0	1.0		49	17	40	10/10/13 5:07	TPH
o-Xylene	3.2	2.0	0.58		14	8.7	40	10/10/13 5:07	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.9	70-130	10/10/13 5:07
4-Bromofluorobenzene (2)	87.2	70-130	10/10/13 5:07

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Rollins Economy Cleaners
Date Received: 10/7/2013
Field Sample #: SSVP-4
Sample ID: 13J0340-02
Sample Matrix: Sub Slab
Sampled: 10/2/2013 17:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1416
Canister Size: 1 liter
Flow Controller ID: 3246
Sample Type: 1 hr

Work Order: 13J0340
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -3.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: RL-02

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	1300	80	28	L-05, V-06	3100	190	40	10/10/13 5:45	TPH
n-Butylbenzene	ND	5.8	1.3		ND	32	40	10/10/13 5:45	TPH
sec-Butylbenzene	ND	4.6	1.6		ND	25	40	10/10/13 5:45	TPH
tert-Butylbenzene	ND	4.6	1.7		ND	25	40	10/10/13 5:45	TPH
1,1-Dichloroethylene	ND	2.0	0.49		ND	7.9	40	10/10/13 5:45	TPH
cis-1,2-Dichloroethylene	ND	2.0	0.76		ND	7.9	40	10/10/13 5:45	TPH
trans-1,2-Dichloroethylene	5.7	2.0	0.53		23	7.9	40	10/10/13 5:45	TPH
Ethylbenzene	5.9	2.0	0.55		26	8.7	40	10/10/13 5:45	TPH
Isopropylbenzene (Cumene)	ND	5.1	1.6		ND	25	40	10/10/13 5:45	TPH
p-Isopropyltoluene (p-Cymene)	ND	4.6	1.4		ND	25	40	10/10/13 5:45	TPH
Naphthalene	ND	2.0	1.1	L-03	ND	10	40	10/10/13 5:45	TPH
Propylbenzene	ND	5.1	1.8		ND	25	40	10/10/13 5:45	TPH
Tetrachloroethylene	33	2.0	0.57		220	14	40	10/10/13 5:45	TPH
Trichloroethylene	40	2.0	0.59		220	11	40	10/10/13 5:45	TPH
1,2,4-Trimethylbenzene	3.9	2.0	0.49		19	9.8	40	10/10/13 5:45	TPH
1,3,5-Trimethylbenzene	3.1	2.0	0.40		15	9.8	40	10/10/13 5:45	TPH
Vinyl Chloride	ND	2.0	0.86		ND	5.1	40	10/10/13 5:45	TPH
m&p-Xylene	27	4.0	1.0		120	17	40	10/10/13 5:45	TPH
o-Xylene	15	2.0	0.58		63	8.7	40	10/10/13 5:45	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.8	70-130	10/10/13 5:45
4-Bromofluorobenzene (2)	87.2	70-130	10/10/13 5:45

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
13J0340-01 [SSVP-3]	B082643	2	1	N/A	1000	400	20	10/09/13
13J0340-02 [SSVP-4]	B082643	2	1	N/A	1000	400	20	10/09/13

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B082643 - TO-15 Prep												
Blank (B082643-BLK1)					Prepared & Analyzed: 10/09/13							
Acetone	ND	1.0										
n-Butylbenzene	ND	0.072										
sec-Butylbenzene	ND	0.057										
tert-Butylbenzene	ND	0.057										
1,1-Dichloroethylene	ND	0.025										
cis-1,2-Dichloroethylene	ND	0.025										
trans-1,2-Dichloroethylene	ND	0.025										
Ethylbenzene	ND	0.025										
Isopropylbenzene (Cumene)	ND	0.064										
p-Isopropyltoluene (p-Cymene)	ND	0.057										
Naphthalene	ND	0.025										L-03
Propylbenzene	ND	0.064										
Tetrachloroethylene	ND	0.025										
Trichloroethylene	ND	0.025										
1,2,4-Trimethylbenzene	ND	0.025										
1,3,5-Trimethylbenzene	ND	0.025										
Vinyl Chloride	ND	0.025										
m&p-Xylene	ND	0.050										
o-Xylene	ND	0.025										
Surrogate: 4-Bromofluorobenzene (1)	*7.82*				*8.00*		*97.8*		*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*7.26*				*8.00*		*90.7*		*70-130*			
LCS (B082643-BS1)					Prepared & Analyzed: 10/09/13							
Acetone	7.22				5.00		**144**	*	70-130			L-05, V-06
n-Butylbenzene	0.936				1.14		82.1		70-130			
sec-Butylbenzene	0.984				1.14		86.3		70-130			
tert-Butylbenzene	1.00				1.14		88.2		70-130			
1,1-Dichloroethylene	4.66				5.00		93.1		70-130			
cis-1,2-Dichloroethylene	4.60				5.00		91.9		70-130			
trans-1,2-Dichloroethylene	4.52				5.00		90.4		70-130			
Ethylbenzene	4.99				5.00		99.8		70-130			
Isopropylbenzene (Cumene)	1.12				1.27		88.6		70-130			
p-Isopropyltoluene (p-Cymene)	0.939				1.14		82.4		70-130			
Naphthalene	2.53				5.00		**50.6**	*	70-130			L-03
Propylbenzene	1.08				1.27		85.1		70-130			
Tetrachloroethylene	5.22				5.00		104		70-130			
Trichloroethylene	4.43				5.00		88.6		70-130			
1,2,4-Trimethylbenzene	5.01				5.00		100		70-130			
1,3,5-Trimethylbenzene	5.20				5.00		104		70-130			
Vinyl Chloride	5.97				5.00		119		70-130			
m&p-Xylene	10.7				10.0		107		70-130			
o-Xylene	5.09				5.00		102		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.17*				*8.00*		*102*		*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*7.40*				*8.00*		*92.5*		*70-130*			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
RL-02	Elevated reporting limit due to high concentration of non-target compounds. Requested reporting limit not met.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	NY
1,1-Dichloroethylene	AIHA,FL,NJ,NY,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,VA
Ethylbenzene	AIHA,FL,NJ,NY,VA
Isopropylbenzene (Cumene)	AIHA,NJ,NY
Naphthalene	NY
Tetrachloroethylene	AIHA,FL,NJ,NY,VA
Trichloroethylene	AIHA,FL,NJ,NY,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY
1,3,5-Trimethylbenzene	AIHA,NJ,NY
Vinyl Chloride	AIHA,FL,NJ,NY,VA
m&p-Xylene	AIHA,FL,NJ,NY,VA
o-Xylene	AIHA,FL,NJ,NY,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

AIR SAMPLE CHAIN OF CUSTODY RECORD

13J0340

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

Company Name: Hart + Hickman
Address: 3334 Hillsborough Raleigh NC
Attention: Tim Klotz
Project Location: Rollins Economy Cleaners
Sampled By: Matt Gillis

Telephone: (919) 847 4241
Project # DSO-79
Client PO # DSO-79

DATA DELIVERY (check one):
☐FAX ☐EMAIL ☐WEBSITE CLIENT
Fax # :
Email: JKlotz@harthickman
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	ONLY USE WHEN USING PUMPS: Total Minutes Sampled	Flow Rate M^3/Min. or L / Min.	Volume Liters or M^3	Matrix Code*	ANALYSIS REQUESTED: TO-15	" Hg Initial pressure	" Hg Final Pressure	Lab Receipt Pressure	Summa Canister ID	Flow Control ID
	SSVP-3	S	01	10/2/13 1610	10/2/13 1720				SS	X	-29	-1	4.9	1417	324
	SSVP-4	S	02	10/2/13 1555	10/2/13 1715				SS	X	-30	-4	3.5	1416	324

Please fill out completely, sign, da and retain the yello copy for your recor
Summa canisters a flow controllers mu returned within 14 d of receipt or rental f will apply.
Summa canisters w retained for a minim of 14 days after sampling date prior cleaning.

Laboratory Comments: Analyze for client specified list provided to Lisa Worthington via email by Tim Klotz 9/24/13

CLIENT COMMENTS:

Relinquished by: (signature)	Date/Time:
Matt Gillis	10/4/13 3:15
Received by: (signature)	Date/Time:
Becky Wood	10/4/13 3:16
Relinquished by: (signature)	Date/Time:
Becky Wood	10/7/13 5:00
Received by: (signature)	Date/Time:
Paula B	10.9.13 12:22

Turnaround **
☒ 7-Day
☐ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations:
Data Enhancement/RCP? ☐ Y ☐ N
Enhanced Data Package ☐ Y ☐ N
(Surchage Applies)
Required Detection Limits:
Other:

***Matrix Code:**
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other

****Media Codes:**
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

Login Sample Receipt Checklist

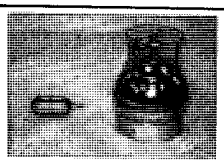
(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	NA	
3) Samples were received on ice.	NA	
4) Cooler Temperature is acceptable.	NA	
5) Cooler Temperature is recorded.	NA	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Log-In Technician Initials: PB **Date/Time:** 10.9.13 1222



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con-test® ANALYTICAL LABORATORY

AIR Only Receipt Checklist

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

CLIENT NAME: Hart + Hickman RECEIVED BY: PB DATE: 10-9-13

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? (Yes) No
If not, explain:

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) Are there any samples "On Hold"? Yes (No) Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified _____ Date _____ Time _____

6) Location where samples are stored: Air Lab

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

7) Temperature °C by Temp blank _____ Temperature °C by Temp gun _____

Containers received at Con-Test

		# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)		2	1 Hr
Tedlar Bags			
TO-17 Tubes			
Regulators		2	1 hr
Restrictors			
Hg/Hopcalite Tube (NIOSH 6009)			
(TO-4A/ TO-10A/TO-13) PUFs			
PCB Florisil Tubes (NIOSH 5503)			
Air cassette			
PM 2.5/PM 10			
TO-11A Cartridges			
Other			

Unused Summas/PUF Media:

Unused Regulators:

1) Was all media (used & unused) checked into the WASP?

2) Were all returned summa cans, Restrictors & Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments: 1417 3245
1416 3246

ATTACHMENT 22

SUB-SLAB VAPOR AND SUBSURFACE SOIL GAS CONTAMINANT CONCENTRATION MAP

W. PEACE STREET

SGMP-7	
PCE	10.0
TCE	45
CIS-1,2-DCE	1,400
TRANS-1,2-DCE	920
VC	**14,000**

SGMP-6	
PCE	**4,400**
TCE	**1.900**
CIS-1,2-DCE	3,000
TRANS-1,2-DCE	450
VC	**85,000**

SSVP-3	
PCE	1,900
TCE	20
CIS-1,2-DCE	<7.9
TRANS-1,2-DCE	<7.9
VC	<5.1

SSVP-1	
PCE	200
TCE	97
CIS-1,2-DCE	160
TRANS-1,2-DCE	35
VC	0.60

AUTO REPAIR

SGMP-7

CAR WASH

SGMP-5

SGMP-6

ROLLINS ECONOMY CLEANERS

SHOE REPAIR

SSVP-3

SSVP-1 FURNITURE SALES

SSVP-4

SSVP-2

SGMP-5	
PCE	110
TCE	**200**
CIS-1,2-DCE	3,600
TRANS-1,2-DCE	2,300
VC	**98,000**

SSVP-2	
PCE	**79,000**
TCE	**9,800**
CIS-1,2-DCE	3,000
TRANS-1,2-DCE	550
VC	<0.26

SSVP-4	
PCE	220
TCE	**220**
CIS-1,2-DCE	<7.9
TRANS-1,2-DCE	23
VC	<5.1

SGMP-1	
PCE	**220,000**
TCE	**3,500**
CIS-1,2-DCE	140
TRANS-1,2-DCE	59
VC	<2.6

SGMP-1

SGMP-2

OFFICE

RESTAURANT

SGMP-3

SGMP-4

SGMP-2	
PCE	19
TCE	0.68
CIS-1,2-DCE	0.47
TRANS-1,2-DCE	<0.40
VC	0.54

SGMP-3	
PCE	980
TCE	1.6
CIS-1,2-DCE	<0.40
TRANS-1,2-DCE	<0.40
VC	<0.26

SGMP-4	
PCE	210
TCE	0.61
CIS-1,2-DCE	<0.40
TRANS-1,2-DCE	<0.40
VC	<0.26

CAR WASH

SGMP-8

SGMP-8	
PCE	820
TCE	2.2
CIS-1,2-DCE	0.22J
TRANS-1,2-DCE	<0.40
VC	0.49

SGMP-9

SGMP-9	
PCE	3,300
TCE	2.4
CIS-1,2-DCE	<0.40
TRANS-1,2-DCE	<0.40
VC	<0.26

OFFICE

AUTO REPAIR

N. HARRINGTON STREET

CAPITAL BOULEVARD

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY PARCEL
- SUBSURFACE SOIL GAS SAMPLE
- SUB-SLAB VAPOR SAMPLE

SAMPLE ID

SSVP-2	
PCE	**79,000**
TCE	**9,800**
CIS-1,2-DCE	3,000
TRANS-1,2-DCE	550
VC	<0.26

CONSTITUENT

CONCENTRATION (ug/m³) (BOLD EXCEEDS NON-RESIDENTIAL SGSL)

NOTES:

1. SUBSURFACE SOIL GAS SAMPLES SGMP-1 THROUGH SGMP-9 COLLECTED ON 09/20/13.
2. SUB-SLAB VAPOR SAMPLES SVMP-1 AND SVMP-2 COLLECTED ON 09/23/13.
3. SUB-SLAB VAPOR SAMPLES SVMP-3 AND SVMP-4 COLLECTED ON 10/02/13.
4. J DENOTES ESTIMATED CONCENTRATION BETWEEN LABORATORY REPORTING LIMIT AND METHOD DETECTION LIMIT.

N

APPROXIMATE

0 40 80

SCALE IN FEET

TITLE

SUB-SLAB VAPOR AND SUBSURFACE SOIL GAS CONTAMINANT CONCENTRATION MAP

PROJECT

ROLLINS ECONOMY CLEANERS
DSCA ID: 92-0048
407 W. PEACE ST.
RALEIGH, WAKE COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 11/21/13 | REVISION NO. 0

JOB NO. DS0–79 | ATTACHMENT NO. 22

S:\AAA-Master Projects\DSCA - DS0\DS0-79 Rollins Economy Cleaners\Reports\2013-09_PA\DC920048_20131209_Figures.dwg, ATT22, 12/19/2013 11:32:50 AM, mfester

Analytical Data Tables
for
North Carolina Dry-Cleaning Solvent Cleanup Act Program

Facility Name:	Rollins Economy Cleaners
	407 W. Peace Street, Raleigh, Wake County
DSCA ID No.:	92-0048
Submittal Date:	December 19, 2013
Prepared By:	Hart & Hickman, PC
	2923 S. Tryon Street, Suite 100, Charlotte, NC 28203

Table of Contents		ADT TOC
DSCA ID No.: 92-0048		
Table/ Att. No.	**Description**	**Check box if included**
	Tables	
Table 1	Site Chronology	☑
Table 2	Analytical Data for Soil	☑
Table 3	Analytical Data for Sub-slab Gas	☑
Table 4	Analytical Data for Soil Gas	☑
Table 5	Analytical Data for Indoor and Outdoor Air	☐
Table 6	Monitoring Well Construction Data	☐
Table 7	Groundwater Elevation Data	☐
Table 8	Analytical Data for Groundwater	☑
Table 9	Analytical Data for Surface Water	☑
Table 10	Water Well(s) Survey Data	☑
Table 11	Analytical Data for Water Supply Well(s)	☑
Table 12	Analytical Data for Natural Attenuation Parameters	☐
	Attachments	
Att. 1	Site map showing location(s) of soil boring(s).	☐
Att. 2	Soil contaminant concentration maps showing the concentration at each sampling point.	☐
Att. 3	Soil isoconcentration maps.	☐
Att. 4	Site map showing location(s) of monitoring well(s).	☐
Att. 5	Well completion diagrams and records of construction submitted to state.	☐
Att. 6	Groundwater gradient map for each sampling event.	☐
Att. 7	PCE concentration map showing the concentration at each sampling point and isoconcentration map. However, if there are significant plumes for other dry-cleaning contaminants, contaminant concentration maps for each chemical of concern should be included.	☐
Att. 8	Groundwater concentration trend plots.	☐
Att. 9	Map showing location(s) of surface water sample(s) (if applicable).	☐
Att. 10	Surface water concentration map showing the concentration at each sampling point (if applicable).	☐
Att. 11	USGS Quad map with plotted water well location(s) within the 1,500 foot and 0.5 mile radii of the site (if applicable).	☐
Att. 12	Site map showing location(s) of monitoring well(s) for natural attenuation paramete	☐
Att. 13	Site map showing location(s) of indoor air, outdoor air, or soil gas samples.	☐
Att. 14	Air and soil gas concentration map showing the concentration at each sampling point.	☐
Att. 15	Signed laboratory analytical reports including chain-of custody and quality assurance/quality control (QA/QC) documentation (only if not previously submitted).	☐
Att. 16		☐
Att. 17		☐
Att. 18		☐
Att. 19		☐
Att. 20		☐
Att. 21		☐

Note:
1. All maps must include a bar scale, north arrow, site name, DSCA ID No., and date.

Table 1: Site Chronology	ADT 1
DSCA ID No.: 92-0048	
Chronology of Events	
Date	Instructions: Brief description of all significant events that have occurred since a problem was suspected at the facility. Commence with the first date a problem was suspected and continue through the most recent activity described in the current report.
February 2013	Hart & Hickman (H&H) conducted a 1% Investigation at the Rollins Economy Cleaners site, including the collection of 12 soil samples from 6 soil borings (SB-1 through SB-6) and the collection 6 groundwater samples (TMW-1 through TMW-6). PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride were detected at concentrations above their respective Tier 1 RBSLs in soil and groundwater. PCE NAPL was observed in TMW-4 (adjacent to the waste storage area) and confirmed through laboratory analysis. Petroleum compounds were also detected in soil and groundwater samples at concentrations exceeding Tier 1 RBSLs. H&H submitted the 1% Investigation report to the DSCA Program on March 7, 2013.
6/22/2013	The site is certified into the DSCA Program.
September - October 2013	H&H conducted Prioritization Assessment activities at the site, including the collection of soil samples from 23 soil borings (SB-7 through SB-29); the collection of groundwater samples from of 26 direct-push locations (TMW-7 through TMW-33); the collection of 4 sub-slab soil gas samples (SSVP-1 through SSVP-4), collection of 9 subsurface soil gas samples (SGMP-1 through SGMP-9); the collection of soil samples from three of the soil gas borings (SGMP-1, -3, and -6), and the collection of 1 surface water sample 9SW-1). H&H also completed a receptor survey within a 1-mile radius of the site. On December 19, 2013, H&H submitted a Prioritization Assessment Report to the DSCA Program documenting the assessment activities and results.

Table 2: Analytical Data for Soil **ADT 2**

DSCA ID No.: 92-0048

Sample ID	Depth [feet bgs]	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	Acetone	Bromomethane	Chloroform	1,1-Dichloroethene	Isopropylbenzene (Cumene)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Methyl-2-pentanone (MIBK)	n-Butylbenzene
			[mg/kg]																			
SB-1	1-2	02/07/13	<0.00185	<0.00185	<0.00185	<0.00185	<0.00463	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00463	0.0716	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.0463	<0.00185
	6-7	02/07/13	<0.00201	<0.00201	<0.00201	<0.00201	<0.00502	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00502	<0.0502	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.0502	<0.00201
SB-2	1-2	02/07/13	0.00833	0.0334	9.10	<0.00184	**30.0**	<0.00184	0.00493	0.00513	<0.00184	**0.150**	0.235	<0.0460	<0.00184	<0.00184	<0.00184	**36.1**	**220**	51.1	<0.0460	43.7
	6-7	02/07/13	0.0123	<0.00204	1.55	<0.00204	**7.87**	<0.00204	<0.00204	<0.00204	<0.00204	**0.0196**	<0.00510	0.0696	0.00402	<0.00204	<0.00204	**10.8**	1.83	<0.149	0.284	17.1
SB-3	1-2	02/07/13	<0.00199	0.0881	<0.00199	<0.00199	0.0126	**0.828**	0.00949	0.00361	**0.152**	<0.00199	<0.00497	0.0628	<0.00199	0.0160	<0.00199	<0.00199	<0.00199	<0.00199	<0.0497	0.0127
	6-7	02/07/13	<0.00196	0.0335	<0.00196	<0.00196	<0.00489	0.00337	0.0208	<0.00196	0.00659	<0.00196	<0.00489	<0.0489	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.0489	<0.00196
SB-4	1-2	02/07/13	<0.00190	0.673	<0.00190	<0.00190	<0.00475	**40.4**	<0.00190	0.00460	**0.833**	<0.00190	<0.00475	<0.0475	<0.00190	0.0212	<0.00190	<0.00190	0.0114	0.00470	<0.0475	<0.00190
	5-6	02/07/13	<0.00194	**9.82**	0.00637	<0.00194	**3.35**	**5,650**	<0.00194	0.0576	<123	**0.00938**	0.0852	0.0495	<0.00194	0.0923	<0.00194	0.0183	0.311	3.23	<0.0484	0.720
SB-5	1-2	02/07/13	<0.00229	**2.19**	<0.00229	<0.00229	<0.00572	**31.8**	<0.00229	0.00816	**5.57**	<0.00229	<0.00572	<0.0572	<0.00229	0.0125	<0.00229	<0.00229	<0.00229	<0.00229	<0.0572	<0.00229
	5-6	02/07/13	<0.00185	**28.3**	0.183	<0.00185	**2.09**	**1.82**	0.00689	0.303	**23.4**	**0.398**	0.0426	<0.0462	<0.00185	0.0552	0.0237	0.0807	3.51	0.964	<0.0462	5.11
SB-6	1-2	02/07/13	<0.00173	0.143	<0.00173	<0.00173	<0.00432	**15.0**	<0.00173	0.00184	**3.73**	<0.00173	<0.00432	<0.0432	<0.00173	0.00182	<0.00173	<0.00173	<0.00173	<0.00173	<0.0432	<0.00173
	5-6	02/07/13	<0.00219	0.123	<0.00219	<0.00219	<0.00547	**0.105**	<0.00219	<0.00219	**1.04**	**0.228**	<0.00547	<0.0547	<0.00219	<0.00219	<0.00219	<0.00219	<0.00219	<0.00219	<0.0547	<0.00219
SB-7	2-3	09/16/13	<0.012	<0.012	<0.012	NA	<0.058	<0.012	<0.012	<0.012	<0.012	**0.009J**	<0.035	NA	NA	NA	<0.012	0.022	0.005J	<0.012	NA	0.010J
	5-6	09/16/13	<0.013	<0.013	0.008J	NA	0.006J	<0.013	<0.013	<0.013	<0.013	<0.013	0.006J	NA	NA	NA	<0.013	0.17	<0.013	<0.013	NA	0.29
SB-8	2-3	09/16/13	<0.242	0.34	0.40	NA	0.35J	<0.242	<0.242	<0.242	<0.242	**0.53**	0.51J	NA	NA	NA	<0.242	1.6	0.45	0.16J	NA	1.1J
	5-6	09/16/13	<0.49	<0.49	0.28J	NA	0.26J	<0.49	<0.49	<0.49	<0.49	<0.49	0.37J	NA	NA	NA	<0.49	7.4	<0.49	<0.49	NA	14
SB-9	2-3	09/16/13	<0.50	0.42	0.20J	NA	0.71J	**0.24J**	<0.50	0.24J	<0.50	**1.1**	0.99J	NA	NA	NA	<0.25	0.55	2.6	0.80	NA	2.1
	5-6	09/16/13	<0.23	<0.23	0.14J	NA	0.38J	<0.23	<0.23	<0.23	<0.23	<0.23	0.19J	NA	NA	NA	<0.23	0.51	1.5	0.72	NA	0.86J
SB-10	2-3	09/16/13	<0.49	<0.49	0.98	NA	**6.0**	<0.49	<0.49	<0.49	<0.49	<0.49	1.77J	NA	NA	NA	<0.49	4.0	29	3.1	NA	11
	3-4	09/16/13	<0.26	<0.26	0.091J	NA	1.0J	<0.26	<0.26	<0.26	<0.26	<0.26	<0.78	NA	NA	NA	<0.26	0.27	0.23J	<0.26	NA	0.65J
SB-11	1-2	09/16/13	<0.013	0.013	<0.013	NA	<0.063	**0.025**	<0.013	<0.013	<0.01	**0.005J**	<0.038	NA	NA	NA	<0.013	<0.013	<0.013	<0.013	NA	<0.063
	4-5	09/16/13	<0.013	0.009J	<0.013	NA	<0.063	<0.013	<0.013	<0.013	<0.013	**0.011J**	<0.038	NA	NA	NA	<0.013	<0.013	<0.013	<0.013	NA	<0.063
SB-12	2-3	09/16/13	<0.013	<0.013	<0.013	NA	0.008J	<0.013	<0.013	<0.013	<0.013	<0.013	<0.038	NA	NA	NA	<0.013	<0.013	0.005J	<0.013	NA	0.011J
	3-4	09/16/13	<0.013	<0.013	<0.013	NA	<0.066	<0.013	<0.013	<0.013	<0.013	<0.013	<0.040	NA	NA	NA	<0.013	<0.013	<0.013	<0.013	NA	<0.066
SB-13	2-3	09/16/13	<0.011	<0.011	0.006J	NA	<0.053	**0.090**	<0.011	<0.011	<0.011	<0.011	0.068	NA	NA	NA	<0.011	<0.011	<0.011	<0.011	NA	<0.053
	3-4	09/16/13	<0.12	0.066J	<0.12	NA	<0.59	**0.26**	<0.12	<0.12	<0.12	<0.12	<0.35	NA	NA	NA	<0.12	<0.12	<0.12	<0.12	NA	<0.59
SB-14	2-3	09/16/13	<0.12	<0.12	<0.12	NA	<0.60	**3.4**	<0.12	<0.12	<0.12	<0.12	<0.36	NA	NA	NA	<0.12	<0.12	<0.12	<0.12	NA	<0.60

Table 2: Analytical Data for Soil **ADT 2**

DSCA ID No.: 92-0048

Sample ID	Depth [feet bgs]	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	Acetone	Bromomethane	Chloroform	1,1-Dichloroethene	Isopropylbenzene (Cumene)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Methyl-2-pentanone (MIBK)	n-Butylbenzene
			[mg/kg]																			
SB-15	2-3	09/17/13	<0.12	<0.12	<0.12	NA	<0.61	**3.6**	<0.12	<0.12	**0.075J**	<0.12	<0.37	NA	NA	NA	<0.12	<0.12	<0.12	<0.12	NA	<0.61
	3-4	09/17/13	<0.13	<0.13	<0.13	NA	<0.64	**5.3**	<0.13	<0.13	0.060J	<0.13	<0.39	NA	NA	NA	<0.13	<0.13	<0.13	<0.13	NA	<0.64
SB-16	1-2	09/17/13	<0.013	0.083	<0.013	NA	<0.64	**0.40**	<0.013	<0.013	**0.073**	<0.013	<0.039	NA	NA	NA	<0.013	<0.013	<0.013	<0.013	NA	<0.064
	4-5	09/17/13	<0.52	0.35J	<0.52	NA	0.17J	**0.64**	<0.52	<0.52	**0.26J**	<0.52	<1.04	NA	NA	NA	<0.52	<0.52	<0.52	<0.52	NA	0.37J
SB-17	2-3	09/17/13	<0.52	**4.6**	<0.52	NA	<2.6	**220**	<0.52	<0.52	**13**	<0.52	<1.52	NA	NA	NA	<0.52	<0.52	<0.52	<0.52	NA	<2.6
	3-4	09/17/13	<0.24	**1.5**	<0.24	NA	<1.2	**74**	<0.24	<0.24	**4.1**	<0.24	<0.72	NA	NA	NA	<0.24	<0.24	<0.24	<0.24	NA	<1.2
SB-18	2-3	09/17/13	<0.011	0.31	<0.011	NA	<0.057	**250**	<0.011	0.005J	**0.21**	<0.011	<0.034	NA	NA	NA	<0.011	<0.011	<0.011	<0.011	NA	<0.057
	4-5	09/17/13	<0.012	0.25	<0.012	NA	<0.059	**1.2**	<0.012	0.009J	**0.13**	**0.036**	<0.035	NA	NA	NA	<0.012	<0.012	<0.012	<0.012	NA	<0.059
SB-19	0-1	09/18/13	<0.22	0.27	<0.22	NA	0.068J	<0.22	<0.22	<0.22	<0.22	<0.22	0.078J	NA	NA	NA	<0.22	<0.22	0.14J	<0.22	NA	<1.1
	3-4	09/18/13	<0.012	0.039	<0.012	NA	<0.059	0.005J	<0.012	<0.012	0.039	**0.005J**	<0.036	NA	NA	NA	<0.012	<0.012	<0.012	<0.012	NA	<0.059
SB-20	1-2	09/18/13	<0.46	0.52	<0.46	NA	<2.3	**310**	<0.46	<0.46	**1.4**	<0.46	<1.38	NA	NA	NA	<0.46	<0.46	<0.46	<0.46	NA	<2.3
	3-4	09/18/13	<0.23	0.16J	<0.23	NA	<1.2	**2.7**	<0.23	<0.23	<0.23	<0.23	<0.69	NA	NA	NA	<0.23	<0.23	<0.23	<0.23	NA	<1.2
SB-21	2-3	09/18/13	<0.51	**4.9**	<0.51	NA	<2.6	**0.44J**	<0.51	<0.51	<0.51	<0.51	<1.51	NA	NA	NA	<0.51	<0.51	1.7	0.60	NA	0.18J
	3-4	09/18/13	<1.2	**10**	0.45J	NA	**4.2J**	**0.95J**	<1.2	0.46J	**0.73J**	<1.2	6.1	NA	NA	NA	<1.2	3.0	**100**	49	NA	20
SB-22	0-1	09/18/13	<0.012	0.15	<0.012	NA	0.005J	**0.30**	<0.012	0.073	**0.11**	**0.058**	0.022J	NA	NA	NA	<0.012	0.006J	0.18	0.089	NA	0.032J
	3-4	09/18/13	<0.25	**2.1**	0.080J	NA	0.29J	<0.25	<0.25	0.23J	<0.25	**0.38**	0.29J	NA	NA	NA	<0.25	0.22J	1.7	0.63	NA	0.25J
SB-23	1-2	09/18/13	<0.24	**5.1**	<0.24	NA	0.098J	<0.24	<0.24	0.55	<0.24	**0.12J**	0.78J	NA	NA	NA	<0.24	0.36	12	4.1	NA	2.7
	3-4	09/18/13	<0.53	0.71J	<0.53	NA	<2.6	<0.53	<0.53	<0.53	<0.53	<0.53	<1.63	NA	NA	NA	<0.53	<0.53	0.32J	<0.53	NA	0.18J
SB-24	2-3	09/18/13	<0.013	<0.013	<0.013	NA	<0.065	<0.013	<0.013	<0.013	<0.013	<0.013	<0.039	NA	NA	NA	<0.013	<0.013	<0.013	<0.013	NA	<0.065
	4-5	09/18/13	<0.013	<0.013	<0.013	NA	<0.063	**0.050**	<0.013	<0.013	0.009J	<0.013	<0.038	NA	NA	NA	<0.013	<0.013	<0.013	<0.013	NA	<0.063
SB-25	2-3	09/18/13	<0.011	0.097	<0.011	NA	<0.057	**0.066**	<0.011	0.007J	0.014	<0.011	<0.034	NA	NA	NA	<0.011	<0.011	<0.011	<0.011	NA	<0.057
	4-5	09/18/13	<0.012	0.042	<0.012	NA	<0.060	**0.15**	<0.012	<0.012	0.021	<0.012	<0.036	NA	NA	NA	<0.012	<0.012	<0.012	<0.012	NA	<0.060
SB-26	2-3	09/18/13	<0.011	<0.011	<0.011	NA	<0.054	0.006J	<0.011	<0.011	<0.011	<0.011	<0.032	NA	NA	NA	<0.011	<0.011	<0.011	<0.011	NA	<0.054
	4-5	09/18/13	<0.011	<0.011	<0.011	NA	<0.055	<0.011	<0.011	<0.011	<0.011	<0.011	<0.033	NA	NA	NA	<0.011	<0.011	<0.011	<0.011	NA	<0.055
SB-27	0-1	09/18/13	<0.012	0.011J	<0.012	NA	<0.060	**0.20**	<0.012	<0.012	0.013	<0.012	<0.036	NA	NA	NA	<0.012	<0.012	<0.012	<0.012	NA	<0.060
	4-5	09/18/13	<0.25	0.73	<0.25	NA	<1.2	**16**	<0.25	<0.25	**0.84**	<0.25	<0.75	NA	NA	NA	<0.25	<0.25	<0.25	<0.25	NA	<1.2
SB-28	1-2	09/18/13	<0.25	0.44	<0.25	NA	<1.3	**6.2**	<0.25	<0.25	**0.16J**	<0.25	<0.76	NA	NA	NA	<0.25	<0.25	<0.25	<0.25	NA	<1.3
	3-4	09/18/13	<0.013	0.024	<0.013	NA	<0.063	**0.41**	<0.013	0.004J	0.021	<0.013	<0.038	NA	NA	NA	<0.013	<0.013	<0.013	<0.013	NA	<0.063

Table 2: Analytical Data for Soil **ADT 2**

DSCA ID No.: 92-0048

Sample ID	Depth [feet bgs]	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	Acetone	Bromomethane	Chloroform	1,1-Dichloroethene	Isopropylbenzene (Cumene)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Methyl-2-pentanone (MIBK)	n-Butylbenzene
			[mg/kg]																			
SB-29	0-1	09/20/13	<0.00206	<0.00206	<0.00206	<0.00206	<0.00516	0.0156	<0.00206	<0.00206	<0.00206	<0.00206	<0.00309	<0.0516	<0.00206	<0.00206	<0.00206	<0.00206	<0.00206	<0.00206	<0.0516	<0.00206
	3-4	09/20/13	<0.00225	<0.00225	<0.00225	<0.00225	<0.338	**0.139**	<0.00225	<0.00225	<0.00225	<0.00225	<0.00338	<0.0564	<0.00225	<0.00225	<0.00225	<0.00225	<0.135	<0.135	<0.0564	<0.135
SGMP-1	2-3	09/20/13	<0.00185	<0.00185	<0.00185	<0.00185	<0.00462	0.00966	<0.00185	<0.00185	<0.00185	<0.00185	<0.00277	0.0677	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.0462	<0.00185
	4-5	09/20/13	<0.00159	<0.00159	<0.00159	<0.00159	<0.00398	**0.846**	<0.00159	<0.00159	0.0102	<0.00159	<0.00239	0.0551	<0.00159	<0.00159	<0.00159	<0.00159	<0.00159	<0.00159	<0.0398	<0.00159
SGMP-3	1-2	09/20/13	<0.00160	<0.00160	<0.00160	<0.00160	<0.00400	0.00509	<0.00160	<0.00160	<0.00160	<0.00160	<0.00240	<0.0400	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.0400	<0.00160
	3-4	09/20/13	<0.00159	<0.00159	<0.00159	<0.00159	<0.00397	**0.0252**	<0.00159	<0.00159	<0.00159	<0.00159	<0.00238	0.0545	<0.00159	<0.00159	<0.00159	<0.00159	<0.00159	<0.00159	<0.0397	<0.00159
SGMP-6	2-3	09/20/13	<0.00182	0.0287	<0.00182	<0.00182	<0.00454	0.00333	<0.00182	0.00544	0.00954	**0.119**	<0.00273	<0.0454	<0.00182	<0.00182	<0.00182	<0.00182	0.0115	0.00349	<0.0454	<0.00182
	3-4	09/20/13	<0.00163	0.0101	<0.00163	<0.00163	<0.00407	0.0129	<0.00163	<0.00163	0.00788	**0.0427**	0.00306	<0.0407	<0.00163	<0.00163	<0.00163	0.00231	0.0191	0.00836	<0.0407	0.00634
DSCA Tier 1 RBSL			0.034	1.1	51	0.18	1.6	0.023	29	1.5	0.067	0.00079	36	42	NE	0.98	0.19	9.0	45	NE	NE	NE

Notes:
1. **Bold** exceeds DSCA Tier 1 Risk-Based Screening Levels (RBSLs).
2. NA = Not Analyzed; NE = screening level not established

Table 2(1): Analytical Data for Soil (User Specified Chemicals) **ADT 2(1)**

DSCA ID No.: 92-0048

Sample ID	Depth [feet bgs]	Sampling Date (mm/dd/yy)	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene																
			[mg/kg]																			
SB-1	1-2	02/07/13	<0.00185	<0.00185	<0.00185	<0.00185																
	6-7	02/07/13	<0.00201	<0.00201	<0.00201	<0.00201																
SB-2	1-2	02/07/13	40.7	50.9	37.8	17.7																
	6-7	02/07/13	20.6	2.42	12.9	4.66																
SB-3	1-2	02/07/13	<0.00199	0.00297	0.00344	<0.00199																
	6-7	02/07/13	<0.00196	<0.00196	<0.00196	<0.00196																
SB-4	1-2	02/07/13	<0.00190	<0.00190	<0.00190	<0.00190																
	5-6	02/07/13	0.311	0.407	0.381	1.04																
SB-5	1-2	02/07/13	<0.00229	<0.00229	<0.00229	<0.00229																
	5-6	02/07/13	2.57	0.334	3.16	1.05																
SB-6	1-2	02/07/13	<0.00173	<0.00173	<0.00173	<0.00173																
	5-6	02/07/13	<0.00219	<0.00219	<0.00219	<0.00219																
SB-7	2-3	09/16/13	0.025	<0.012	0.052	0.052																
	5-6	09/16/13	0.34	<0.013	0.27	0.11																
SB-8	2-3	09/16/13	1.9	0.43	2.2	1.2																
	5-6	09/16/13	16	<0.49	14	6.6																
SB-9	2-3	09/16/13	1.0	2.6	1.5	1.0																
	5-6	09/16/13	1.1	0.31	0.88	0.29																
SB-10	2-3	09/16/13	8.2	13	8.4	2.6																
	3-4	09/16/13	0.65	0.091J	0.55	0.16J																
SB-11	1-2	09/16/13	<0.013	<0.013	<0.013	<0.013																
	4-5	09/16/13	<0.013	<0.013	0.006J	0.005J																
SB-12	2-3	09/16/13	0.005J	0.022	0.010J	0.013																
	3-4	09/16/13	<0.013	<0.013	<0.013	<0.013																
SB-13	2-3	09/16/13	<0.011	<0.011	<0.011	<0.011																
	3-4	09/16/13	<0.12	<0.12	<0.12	<0.12																
SB-14	2-3	09/16/13	<0.12	<0.12	<0.12	<0.12																

Table 2(1): Analytical Data for Soil (User Specified Chemicals) **ADT 2(1)**

DSCA ID No.: 92-0048

Sample ID	Depth [feet bgs]	Sampling Date (mm/dd/yy)	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene																
			[mg/kg]																			
SB-15	2-3	09/17/13	<0.12	<0.12	<0.12	<0.12																
	3-4	09/17/13	<0.13	<0.13	<0.13	<0.13																
SB-16	1-2	09/17/13	<0.013	<0.013	<0.013	<0.013																
	4-5	09/17/13	0.23J	0.16J	0.51J	0.37J																
SB-17	2-3	09/17/13	<0.52	<0.52	<0.52	<0.52																
	3-4	09/17/13	<0.24	<0.24	<0.24	<0.24																
SB-18	2-3	09/17/13	<0.011	<0.011	<0.011	<0.011																
	4-5	09/17/13	<0.012	<0.012	<0.012	<0.012																
SB-19	0-1	09/18/13	<0.22	<0.22	<0.22	<0.22																
	3-4	09/18/13	<0.012	<0.012	<0.012	<0.012																
SB-20	1-2	09/18/13	<0.46	<0.46	<0.46	<0.46																
	3-4	09/18/13	<0.23	<0.23	<0.23	<0.23																
SB-21	2-3	09/18/13	<0.51	<0.51	<0.51	<0.51																
	3-4	09/18/13	9.2	17	11	3.5																
SB-22	0-1	09/18/13	0.013	0.037	0.028	0.013																
	3-4	09/18/13	0.40	0.28	0.34	0.15J																
SB-23	1-2	09/18/13	1.1	3.8	2.9	1.2																
	3-4	09/18/13	<0.53	<0.53	0.24J	<0.53																
SB-24	2-3	09/18/13	<0.013	<0.013	<0.013	<0.013																
	4-5	09/18/13	<0.013	<0.013	<0.013	<0.013																
SB-25	2-3	09/18/13	<0.011	<0.011	<0.011	<0.011																
	4-5	09/18/13	<0.012	<0.012	<0.012	<0.012																
SB-26	2-3	09/18/13	<0.011	<0.011	<0.011	<0.011																
	4-5	09/18/13	<0.011	<0.011	<0.011	<0.011																
SB-27	0-1	09/18/13	<0.012	<0.012	<0.012	<0.012																
	4-5	09/18/13	<0.25	<0.25	<0.25	<0.25																
SB-28	1-2	09/18/13	<0.25	<0.25	<0.25	<0.25																
	3-4	09/18/13	<0.013	<0.013	<0.013	<0.013																

Table 2(1): Analytical Data for Soil (User Specified Chemicals) **ADT 2(1)**

DSCA ID No.: 92-0048

Sample ID	Depth [feet bgs]	Sampling Date (mm/dd/yy)	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene																
			[mg/kg]																			
SB-29	0-1	09/20/13	<0.00206	<0.00206	<0.00206	<0.00206																
	3-4	09/20/13	<0.135	<0.135	<0.135	<0.135																
SGMP-1	2-3	09/20/13	<0.00185	<0.00185	<0.00185	<0.00185																
	4-5	09/20/13	<0.00159	<0.00159	<0.00159	<0.00159																
SGMP-3	1-2	09/20/13	<0.00160	<0.00160	<0.00160	<0.00160																
	3-4	09/20/13	<0.00159	<0.00159	<0.00159	<0.00159																
SGMP-6	2-3	09/20/13	<0.00182	0.00382	0.00968	0.0156																
	3-4	09/20/13	0.00424	0.00275	0.0165	0.0178																
DSCA Tier 1 RBSL			NE	NE	NE	NE																

Notes:
1. **Bold** exceeds DSCA Tier 1 Risk-Based Screening Levels (RBSLs).
2. NA = Not Analyzed; NE = screening level not established

Table 3: Analytical Data for Sub-slab Gas **ADT 3**

DSCA ID No.: 92-0048

Sample ID	Depth [inches bgs]	Slab Thickness [inches]	Sampling Duration [1]	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	Acetone	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Butylbenzene		
					[µg/m^3]																
SSVP-1	6	5	55m	09/23/13	NA	160	0.50	NA	0.34J	200	NA	35	97	0.60	2.48	110	0.68	0.29J	<1.6		
SSVP-2	5	4	1h 10m	09/23/13	NA	3,000	13	NA	8.8	**79,000**	NA	550	**9,800**	<0.26	66	730	14	4.9	6.6J		
SSVP-3	5	4	1h 10m	10/02/13	NA	<7.9	12	NA	<10	1,900	NA	<7.9	20	<5.1	63	4,400	47	29	<32		
SSVP-4	5	4	1h 20m	10/02/13	NA	<7.9	26	NA	<10	220	NA	23	**220**	<5.1	183	3,100	19	15	<32		
DWM Non-Residential SGSLs					--	NE	4,910	--	263	3,500	--	5,260	175	2,790	8,760	2,720,000	613	NE	NE		

Notes:
1. NA = Not Analyzed; NE = screening level not established
2. Bold concentrations exceed DWM Non-Residential Soil Gas Screening Levels (SGSLs) (October 2013).
3. A leak check was performed prior to sample collection.
4. Samples were collected in 1-L Summa canisters and were analyzed using EPA Method TO-15.
5. J flag denotes estimated concentration between laboratory reporting limit and method detection limit.

[1] Indicate "G" for grab sample or for longer samples indicate the number of hours followed by "h".

Table 4: Analytical Data for Soil Gas **ADT 4**

DSCA ID No.: 92-0048

Sample ID	Depth [feet bgs]	Sample Duration [1]	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	Acetone	1,2,4-Trimethylbenzene	n-Butylbenzene	sec-Butylbenzene	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Propylbenzene
				[µg/m^3]																	
SGMP-1	5.5	1h 10m	09/20/13	NA	140	9.9	NA	6.1	**220,000**	NA	59	**3,500**	<2.6	60	140	12	<16	<13	<12	<13	<12
SGMP-2	5.5	1h 11m	09/20/13	NA	0.47	21	NA	8.4	19	NA	<0.40	0.68	0.54	118	<9.5	49	5.6	1.7	2.3	3.0	8.7
SGMP-3	5.5	1h 10m	09/20/13	NA	<0.40	31	NA	4.4	980	NA	<0.40	1.6	<0.26	168	490	58	4.2	0.99J	3.7	1.7	12
SGMP-4	5.5	1h 5m	09/20/13	NA	<0.40	25	NA	2.7	210	NA	<0.40	0.61	<0.26	127	180	35	2.5	0.72J	2.7	1.1J	8.0
SGMP-5	5.5	1h 7m	09/20/13	NA	3,600	51	NA	12	110	NA	2,300	**200**	**98,000**	291	1,400	130	13J	13	6.1 J	11J	<12
SGMP-6	4.5	1h 20m	09/20/13	NA	3,000	320	NA	<52	**4,400**	NA	450	**1,900**	**85,000**	790	<950	400	3,100	14,000	11,000	110J	8,000
SGMP-7	5.5	1h 11m	09/20/13	NA	1,400	38	NA	6.0	10.0	NA	920	45	**14,000**	212	<9.5	63	7.0	1.8	4.8	<1.3	13
SGMP-8	5.5	1h 4m	09/20/13	NA	0.22J	13	NA	3.1	820	NA	<0.40	2.2	0.49	78	130	30	0.67J	0.75J	1.7	0.82J	6.0
SGMP-9	5.5	1h 8m	09/20/13	NA	<0.40	21	NA	3.6	3,300	NA	<0.40	2.4	<0.26	117	300	43	3.2	0.75J	2.7	1.4	9.5
DWM Non-Residential SGSLs				--	NE	4,910	--	263	3,500	--	5,260	175	2,790	8,760	2,720,000	613	NE	NE	35,000	NE	87,600

Notes:
1. NA = Not Analyzed; NE = screening level not established
2. Bold concentrations exceed DWM Non-Residential Soil Gas Screening Levels (SGSLs) (October 2013).
3. A leak check was performed prior to sample collection.
4. Samples were collected in 1-L Summa canisters and were analyzed using EPA Method TO-15.
5. J flag denotes estimated concentration between laboratory reporting limit and method detection limit.

[1] Indicate "G" for grab sample or for longer samples indicate the number of hours followed by "h".

Table 4(1): Analytical Data for Soil Gas (User Specified Chemicals) **ADT 4(1)**

DSCA ID No.: 92-0048

Sample ID	Depth [feet bgs]	Sample Duration[1]	Sampling Date (mm/dd/yy)	1,3,5-Trimethylbenzene	1,1-Dichloroethylene	tert-Butylbenzene															
				[µg/m^3]																	
SGMP-1	5.5	1h 10m	09/20/13	<4.9	<4.0	<13															
SGMP-2	5.5	1h 10m	09/20/13	14	<0.40	<1.3															
SGMP-3	5.5	1h 10m	09/20/13	15	<0.40	<1.3															
SGMP-4	5.5	1h 5m	09/20/13	10	<0.40	<1.3															
SGMP-5	5.5	1h 7m	09/20/13	41	40	<13															
SGMP-6	4.5	1h 20m	09/20/13	300	44	12,000															
SGMP-7	5.5	1h 11m	09/20/13	17	8.0	<1.3															
SGMP-8	5.5	1h 4m	09/20/13	7.3	<0.40	<1.3															
SGMP-9	5.5	1h 8m	09/20/13	11	<0.40	<1.3															
DWM Non-Residential SGSLs				NE	17,500	NE															

Notes:
1. NA = Not Analyzed; NE = screening level not established
2. Bold concentrations exceed DWM Non-Residential Soil Gas Screening Levels (SGSLs) (October 2013).
3. A leak check was performed prior to sample collection.
4. Samples were collected in 1-L Summa canisters and were analyzed using EPA Method TO-15.
5. J flag denotes estimated concentration between laboratory reporting limit and method detection limit.

[1] Indicate "G" for grab sample or for longer samples indicate the number of hours followed by "h".

Table 8: Analytical Data for Groundwater **ADT 8**

DSCA ID No.: 92-0048

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,1-Dichloroethene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene
		[mg/L]																			
Temporary Monitoring Wells																					
TMW-1	02/07/13	<0.001	0.00116	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TMW-2	02/07/13	<0.01	<0.01	**0.0485**	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	0.0768	**2.94**	0.156	<0.01	**0.229**	**0.291**	**0.505**	**0.308**	**0.224**	**0.0868**
TMW-3	02/07/13	<0.001	0.0609	<0.001	<0.001	<0.005	**0.691**	0.00463	<0.001	**0.0516**	**0.00169**	<0.003	0.00147	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TMW-4	02/07/13	<0.05	**115**	**0.808**	<0.05	**2.68**	**955**	0.0744	**10.1**	**76.1**	**7.52**	**0.911**	**21.3**	**2.88**	**0.210**	**1.16**	**2.52**	**2.66**	**1.70**	**1.52**	**0.549**
TMW-5	02/07/13	<0.01	**3.88**	**0.0284**	<0.01	**0.134**	**0.148**	<0.01	**0.726**	**0.474**	**1.93**	<0.03	**0.137**	0.0316	<0.01	0.0350	0.0291	0.0680	**0.0269**	0.0272	0.0144
TMW-6	02/07/13	<0.001	**0.597**	<0.001	<0.001	<0.005	**0.285**	0.00240	0.0450	**0.338**	**0.116**	0.00452	0.00250	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00121	0.00100
TMW-7	09/16/13	0.0005J	**0.0732**	<0.0010	NA	<0.0050	<0.0010	<0.0010	0.0226	<0.0010	**0.260**	0.0008J	0.0003J	<0.0010	<0.0010	0.0003J	<0.0050	<0.0010	<0.0010	0.0013	0.0024
TMW-8	09/16/13	**0.0012**	0.0019	0.0003J	NA	0.0006J	<0.0010	<0.0010	0.0008J	<0.0010	**0.0062**	0.0006J	<0.0010	<0.0010	<0.0010	0.0240	0.0078	0.0063	<0.0010	0.0286	0.0286
TMW-9	09/16/13	**0.0070**	0.0007J	0.0028	NA	0.0015J	<0.0010	0.0005J	0.0008J	<0.0010	**0.0445**	0.0024J	0.0020	0.0008J	<0.0010	**0.0807**	0.0289	**0.0894**	<0.0010	0.0468	0.0288
TMW-10	09/16/13	<0.020	<0.020	<0.020	NA	<0.100	<0.020	<0.020	<0.020	<0.020	**0.013J**	<0.060	<0.020	<0.020	<0.020	**0.100**	0.037J	**0.180**	<0.020	0.067	0.030
TMW-11	09/16/13	<0.0010	0.0341	<0.0010	NA	<0.0050	**0.0068**	<0.0010	0.0019	**0.0021**	**0.0077**	0.0023J	<0.0010	<0.0010	<0.0010	0.0017	0.0048J	0.0041	<0.0010	0.0080	0.0047
TMW-12	09/16/13	<0.010	**0.19**	<0.010	NA	<0.050	**0.12**	<0.010	<0.010	**0.32**	**0.015**	<0.030	<0.010	<0.010	<0.010	<0.010	<0.050	<0.010	<0.010	<0.010	<0.010
TMW-13	09/16/13	<0.20	**0.93**	<0.20	NA	<1.0	**27**	<0.20	<0.20	**0.66**	<0.20	<0.60	<0.20	<0.20	<0.20	<0.20	<1.0	<0.20	<0.20	<0.20	<0.20
TMW-14	09/17/13	<0.20	**0.46**	<0.20	NA	<1.0	**12**	<0.20	<0.20	**0.25**	<0.20	<0.60	<0.20	<0.20	<0.20	<0.20	<1.0	<0.20	<0.20	<0.20	<0.20
TMW-15	09/17/13	**0.0011**	0.0141	**0.0074**	NA	**0.0116**	**0.0384**	0.0027	**0.430**	**0.0053**	**1.9**	0.0174	**0.0169**	0.0042	<0.0010	0.0353	0.0202	0.0296	0.0017	0.0326	0.0188
TMW-16	09/17/13	<0.010	**0.46**	<0.010	NA	<0.050	**0.18**	<0.010	0.013	**0.38**	**0.59**	<0.030	<0.010	<0.010	<0.010	<0.010	<0.050	<0.010	<0.010	<0.010	<0.010
TMW-18	09/17/13	<0.0010	<0.0010	<0.0010	NA	<0.0050	0.00039J	<0.0010	<0.0010	<0.0010	**0.00095J**	<0.0030	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
TMW-19	09/17/13	<0.0010	0.0015	<0.0010	NA	<0.0050	**0.0577**	<0.0010	0.0004J	**0.0046**	<0.0010	<0.0030	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
TMW-20	09/17/13	<0.0010	0.0043	<0.0010	NA	<0.0050	**0.0285**	<0.0010	<0.0010	**0.0166**	<0.0010	<0.0030	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
TMW-21	09/18/13	<0.50	**14**	<0.50	NA	<2.5	**36**	<0.50	**0.260J**	**2.2**	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
TMW-22	09/18/13	<0.0010	0.0017	<0.0010	NA	<0.0050	**0.0073**	<0.0010	<0.0010	**0.0032**	<0.0010	<0.0030	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
TMW-23	09/18/13	<0.0010	<0.0010	<0.0010	NA	<0.0050	**0.0013**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
TMW-24	09/18/13	<0.0050	**0.17**	<0.0050	NA	<0.025	**0.0057**	<0.0050	0.060	**0.014**	**0.12**	<0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050	<0.0050
TMW-25	09/18/13	**0.0043**	<0.0020	0.0022	NA	0.0016J	**0.0010J**	0.00084J	<0.0020	<0.0020	<0.0020	<0.0040	<.0020	<0.0020	<0.0020	**0.099**	0.030	**0.14**	<0.0020	0.049	0.030
TMW-26	09/18/13	<0.0050	0.0036J	<0.0050	NA	<0.025	**0.0073**	<0.0050	0.0015J	<0.0050	**0.0021**	<0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050	<0.0050
TMW-27	09/18/13	<0.0010	<0.0010	<0.0010	NA	<0.0050	**0.0102**	<0.0010	<0.0010	**0.0020**	<0.0010	<0.0030	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	0.00035J	<0.0010	<0.0010	<0.0010

Table 8: Analytical Data for Groundwater **ADT 8**

DSCA ID No.: 92-0048

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,1-Dichloroethene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene
		[mg/L]																			
TMW-28	09/18/13	<0.0010	**0.0869**	<0.0010	NA	<0.0050	**0.0023**	<0.0010	0.0135	**0.0015**	**0.0565**	<0.0030	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
TMW-29	09/19/13	<0.0010	0.0034	<0.0010	NA	<0.0050	**0.0154**	<0.0010	<0.0010	**0.0032**	<0.0010	<0.0030	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
TMW-30	09/19/13	<0.0010	0.0051	0.0010	NA	<0.0050	**0.0117**	0.0012	0.00053J	**0.0019**	**0.00090J**	0.00102	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
TMW-31	09/19/13	<0.0010	<0.0010	0.0018	NA	<0.0050	**0.0015**	0.0023	<0.0010	<0.0010	<0.0010	0.0191	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
TMW-32	09/19/13	<0.0010	0.00059J	<0.0010	NA	<0.0050	**0.0074**	0.00032J	<0.0010	0.00081J	<0.0010	0.00070J	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
TMW-33	09/19/13	<0.0020	**0.10**	<0.0020	NA	<0.010	<0.0014	<0.0020	0.0015J	<0.0020	<0.0020	<0.0060	<0.0020	<0.0020	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0020
Tier 1 RBSL (or NC 2L Standard)		0.001	0.07	0.003	0.02	0.004	0.0007	0.6	0.076	0.001	0.00003	0.094	0.0058	0.4	0.007	0.070	0.070	0.070	0.025	0.070	0.070

Notes:

1. **Bold** exceeds the DSCA Tier 1 Risk-Based Screening Level (or the NC 2L Standard, if RBSL not established).
2. Standard for p-isopropyltoluene is an Interim Maximum Allowable Concentration (IMAC) established under 15A NCAC 2L .0202.

Table 9: Analytical Data for Surface Water **ADT 9**

DSCA ID No.: 92-0048

Sample ID	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)									
		[mg/L]																			
SW-1	09/17/13	<0.0010	<0.0010	<0.0010	NA	<0.0050	0.00036J	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030									
2013 15A NCAC 2B Freshwater Aquatic Life* or Human Health Standard		0.051	0.720	0.097*	1.5	0.012*	0.0033	0.011*	10	0.03	0.0024	0.67*									

Notes:
1. NA denotes not analyzed.
2. J flag indicates estimated concentration below laboratory reporting limit and above method detection limit.
* 2013 15A NCAC 2B Freshwater Aquatic Life Standard

Table 10: Water Well(s) Survey Data **ADT 10**

DSCA ID No.: 92-0048

Ref. No./ Well ID	Sampling Location Name and Address	Property Owner Name, Address, and Phone Number	Tenant Name, Address, and Phone Number	Distance from Source [feet]	Well Depth [feet]	Screen Interval [feet]	Use of Well	Source of Well Identification	Direction (downgradient, upgradient, etc., to source area)	Status (Active/ Inactive)
WSW-1	413 N. Salisbury Street Raleigh, NC	State of North Carolina State Property Office 116 West Jones Street Raleigh, NC 27603 919-733-0396	Facilities Management Department 413 N. Salisbury Street Raleigh, NC 919-733-0396	850	400	Unknown	Irrigation	Identified during assessment at DSCA ID No. 92-0046 (Flint's Laundry and Dry Cleaning)	Upgradient	Active
WSW-2	707 Semart Drive Raleigh, NC	Bagwell Station, LLC 707 Semart Drive Raleigh, NC 27604 919-828-5337	Logan Trading Company 707 Semart Drive Raleigh, NC 27604 919-828-5337	1,380	Unknown	Unknown	Irrigation	Identified during assessment at DSCA ID No. 92-0046 (Flint's Laundry and Dry Cleaning)	Upgradient	Active
I002053	800 Harp Street Raleigh, NC	Peace College of Raleigh 15 E. Peace Street Raleigh, NC 27604 919-508-2000	Peace College of Raleigh 15 E. Peace Street Raleigh, NC 27604 919-508-2000	2,300	Unknown	Unknown	Abandoned 10/20/03	Wake County GIS	Upgradient	Inactive
D028596	150 Oak Chase Lane Raleigh, NC	City of Raleigh Housing Authority 900 Haynes Street Raleigh, NC 27604		2,380	Unknown	Unknown	Irrigation	Wake County GIS	Upgradient	Active
I002046	315 N. Boundary Street Raleigh, NC	Anthony & Karen Penry 315 N. Boundary Street Raleigh, NC 27604		3,000	Unknown	Unknown	Irrigation	Wake County GIS	Upgradient	Inactive
D040771	200 N. Blount Street Raleigh, NC	State of North Carolina State Property Office 116 West Jones Street Raleigh, NC 27603	Governor's Mansion 200 N. Blount Street Raleigh, NC	3,150	305	Unknown	Potable Water	Wake County GIS	Upgradient	Active
WSW-3	900 Hillsborough Street Raleigh, NC	Saint Mary's School 900 Hillsborough Street Raleigh, NC 27602 919-424-4000	Saint Mary's School 900 Hillsborough Street Raleigh, NC 27602 919-424-4000	3,500	Unknown	Unknown	Unknown	Visual Observation	Upgradient	Unknown
D031692	1004 Benjamin Street Raleigh, NC	Philip Cassaro 1004 Benjamin Street Raleigh, NC 27604		4,175	Unknown	Unknown	Abandoned 2004	Wake County GIS	Upgradient	Inactive
D046120	1515 Glenwood Avenue Raleigh, NC	Brian & Kristin Wordsworth PO Box 800 Rocky Mount, NC 27802		4,225	126	Unknown	Irrigation	Wake County GIS	Upgradient	Active

Table 10: Water Well(s) Survey Data **ADT 10**

DSCA ID No.: 92-0048

Ref. No./ Well ID	Sampling Location Name and Address	Property Owner Name, Address, and Phone Number	Tenant Name, Address, and Phone Number	Distance from Source [feet]	Well Depth [feet]	Screen Interval [feet]	Use of Well	Source of Well Identification	Direction (downgradient, upgradient, etc., to source area)	Status (Active/ Inactive)
I003150	336 Fayetteville Street Raleigh, NC	Wake County PO Box 550 Raleigh, NC 27602		4,450	Unknown	Unknown	Non-Potable Water	Wake County GIS	Upgradient	Active

Note:
1. Well ID refers to labeling of well locations on figure (Attachment 8).

Table 11: Analytical Data for Water Supply Well(s) **ADT 11**

DSCA ID No.: 92-0048

Sample ID	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)									
		[mg/L]																			
WSW-1	08/18/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00300									
WSW-2	05/07/13	<0.00100	<0.00100	<0.00100	0.00324	<0.00500	**0.00323**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00300									
Tier 1 RBSL		0.001	0.07	0.003	0.02	0.004	0.0007	0.6	0.076	0.001	0.00003	0.094									

Notes:
1. Samples collected and analyzed as part of assessment activities at DSCA ID No. 92-0046 (Flint's Laundry and Dry Cleaning)
2. Bold concentrations exceed DSCA Tier 1 RBSL.