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Via E-Mail and US Mail

December 19, 2013

Charlotte-Mecklenburg Housing Partnership, Inc.
4601 Charlotte Park Drive, Ste. 350
Charlotte, North Carolina 28217-1915

Attn: Mr. Fred Dodson, Jr.

RE: Phase I and II ESA
2000-2014 Statesville Avenue
Charlotte, North Carolina
H&H Job No. CHP-013

Dear Mr. Dodson,

In accordance with our authorized Scope of Work, Hart & Hickman, PC (H&H) has performed a Phase II Environmental Site Assessment (ESA) for the above-referenced site. Two hardcopies and a PDF copy of this report are being provided.

Thank you for the opportunity to assist you with this project. Please contact me with questions or if we can be of further assistance.

Sincerely,

Hart & Hickman, PC

Matt Bramblett
Principal and Project Manager

Attachments

Phase II Environmental Site Assessment

Vacant Lot
2000-2014 Statesville Avenue
Charlotte, North Carolina

H&H Job No. CHP-013
December 19, 2013

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#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

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Via E-Mail

December 19, 2013

Charlotte-Mecklenburg Housing Partnership, Inc.
4601 Charlotte Park Drive, Ste. 350
Charlotte, North Carolina 28217-1915

Attention: Mr. Fred Dodson, Jr.

Re: Phase II Environmental Site Assessment
Vacant Lot
2000-2014 Statesville Avenue
Charlotte, North Carolina
H&H Job No. CHP-013

Dear Fred:

1.0 Introduction

In accordance with our authorized scope of work, H&H has completed Phase II Environmental Site Assessment (ESA) sampling activities at the vacant lot located at 2000 to 2014 Statesville Avenue in Charlotte, Mecklenburg County, North Carolina. The subject site consists of approximately 1.63 acres of vacant land. A site location map is presented as Figure 1, and a site map is presented as Figure 2.

In a letter dated November 13, 2013, H&H provided the results of our review of a 2007 Phase I ESA prepared by Apex Companies. Based on our review of the 2007 Phase I ESA, a gas station was potentially on this parcel in the 1930s and a drycleaner was potentially on this parcel in the 1950s. Additionally, a commercial building, reportedly occupied by a former convenience store, former restaurants, and a former limousine and van service business, was identified at the northwestern part of the site between the 1980s and 2006. Residences were identified along Statesville Avenue and Woodward Avenue in the 1950s and 1960s. Based on these potential

historical operations as a gasoline station and drycleaner, H&H proposed conducting this Phase II ESA. Soil and groundwater sampling methodology, results, and conclusions are presented below.

2.0 Phase II ESA Activities

On December 2, 2013, H&H conducted Phase II ESA soil and groundwater sampling activities. The activities included advancing five soil borings, collecting soil samples from each soil boring, and installing and sampling two temporary monitoring wells. Phase II ESA soil boring and temporary monitoring well locations are depicted on Figure 2.

Prior to conducting the soil borings, H&H submitted a public utility locater request through North Carolina 811 in order to screen for underground utilities at the site. Additionally, borings were hand augered to a depth of five feet in order to clear the boring for potential utilities.

Soil Sampling

Soil borings were advanced in the following locations:

- Northwestern part of the property (Soil Boring SB-1; Temporary Monitoring Well TW-1)
- Northeastern part of the property (Soil Boring SB-2)
- Eastern part of the property (Soil Boring SB-3)
- South-central part of the property (Soil Boring SB-4)
- Southwestern part of the property (Soil Boring SB-5; Temporary Monitoring Well TW-2)

H&H utilized Geologic Exploration, Inc. (Geologic) of Statesville, North Carolina to advance the soil borings using Geoprobe® direct-push technology (DPT) and hand auger methods. At DPT boring locations, soil cores were continuously retrieved within a macro-core sampler for visual characterization and soil vapor screening using a photo-ionization detector (PID). At hand auger boring locations, soil cuttings were field screened.

Rocks and/or hard surfaces were encountered during hand augering of SB-1, which was relocated further northwest of the originally planned location. SB-1 was placed in the northwest area of the property in order to provide a sample location close to the previously discussed commercial building. Boring locations SB-2, SB-3, and SB-4 were spread throughout the remainder of the property. Refusal was met at SB-3 at a depth of seven feet and at SB-4A at a depth of nine feet. In order to obtain screen soils at a deeper interval at the southeastern part of the site, a second soil boring was advanced in the area of SB-4A and was designated as SB-4B. This soil boring was advanced to a total depth of 17 feet. SB-5 was located at the southwest part of the property in the downgradient area of the property. PID screening levels did not indicate the obvious presence of petroleum or otherwise contaminated soils. Boring logs including PID readings are included in Appendix A. One soil sample was submitted for laboratory analysis from a relatively shallow interval from each of the soil borings. The soil samples collected were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B and polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270D.

Groundwater Sampling

Soil borings SB-1 and SB-5 were advanced into the water table. Subsequently, temporary monitoring wells TW-1 and TW-2 were installed at 17 feet below ground surface (ft bgs) and 24 ft bgs, respectively. TW-1 was located crossgradient to the former commercial building and TW-2 was located in the downgradient portion of the site. The temporary wells were constructed of 1-inch diameter PVC casing with 10 ft of 0.010-slot PVC well screen placed to bracket the water table. Filter sand was added to the well annulus to approximately 2 to 3 ft above the screened interval. Monitoring well construction and abandonment records are included in Appendix B. A monitoring well data summary is provided in Table 1.

Following well installation, H&H purged the wells until field measurements of temperature, pH, and conductivity stabilized. In the case of TW-1, the well was purged dry. Groundwater samples were collected using dedicated disposable polyethylene tubing connected to a peristaltic

pump. At TW-1, the groundwater sample was collected once water recharged in the well. At TW-2, the groundwater sample was collected upon stabilization of the field parameters. The groundwater samples were submitted for analysis of VOCs by EPA Method 8260B and PAHs by EPA Method 8270D.

Sample Handling Procedures

The samples were submitted to Prism Laboratories Inc., a North Carolina-certified laboratory. Dedicated laboratory-supplied sample kits and bottles were used for sample collection. The samples were placed in an iced cooler after collection. A chain-of-custody record was completed for the samples collected and included the sample description, date collected, time collected, matrix, sample container information, and analyses required. The chain-of-custody was signed by H&H prior to placement in the iced sample cooler for delivery to the laboratory. The laboratory analytical data report and chain-of-custody record are included in Appendix C.

3.0 Soil and Groundwater Sampling Results

Soil Sampling Results

No VOCs or PAHs were detected for soil samples collected from borings SB-1 through SB-5 (Table 2).

Groundwater Sampling Results

Groundwater analytical results were compared to the North Carolina 2L Groundwater (NC 2L) Standard. Methyl-tert-butyl ether (MTBE) was detected in temporary well TW-2 at a concentration of 22 µg/L, which is above the NC 2L Standard (Table 3) of 20 µg/L. A second analysis of the submitted sample was requested and the concentration of 22 µg/L was confirmed by the laboratory. MTBE is a gasoline constituent, but the source of this MTBE is not conclusively known. No other VOCs were detected and no PAHs were detected in the sample from TW-2. No VOCs or PAHs were detected in the sample from TW-1.

4.0 Conclusions and Recommendations

During the Phase II ESA, no soil impacts were detected; however, MTBE was detected in groundwater. Based upon the presence of MTBE above the groundwater standard in one temporary well and the possible former presence of a gasoline station and drycleaner at the site, H&H recommends that a Brownfields Agreement be considered for this site. This option is typically available to the prospective purchaser/developer, but is not available to the responsible party. Under a Brownfields Agreement, certain environmental liability protection is built into the agreement. An advantage of selecting this option is the ability to use risk-based cleanup standards dependent upon the intended redevelopment use. In addition to utilizing risk-based standards, there are potential tax incentives for qualified improvements for the first five years of the Agreement. DENR reserves the right to require additional actions from the party responsible for the release.

Thank you for the opportunity to assist you with this project. Should you have any questions or require any additional information concerning this report, please feel free to contact us at (704) 586-0007.

Very truly yours,

Hart & Hickman, PC

Matt Bramblett
Principal Engineer

Janine Turbé
Assistant Project Environmental Scientist

Attachments

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Table 1
Monitoring Well Data Summary
Vacant Site
2000-2014 Statesville Avenue
Charlotte, North Carolina
H & H Job No. CHP.013

Temporary Well	**Depth of Well** *(in feet, from ground surface)*	**Depth to Water** *(in feet, from ground surface)*
TW-1	16.1	11.15
TW-2	23.4	11.9

Notes:

Water levels and well depths measured
by H&H personnel on 12/2/2013

Table 2
Soil Analytical Data Summary
Vacant Site
2000-2014 Statesville Avenue
Charlotte, North Carolina
H & H Job No. CHP.013

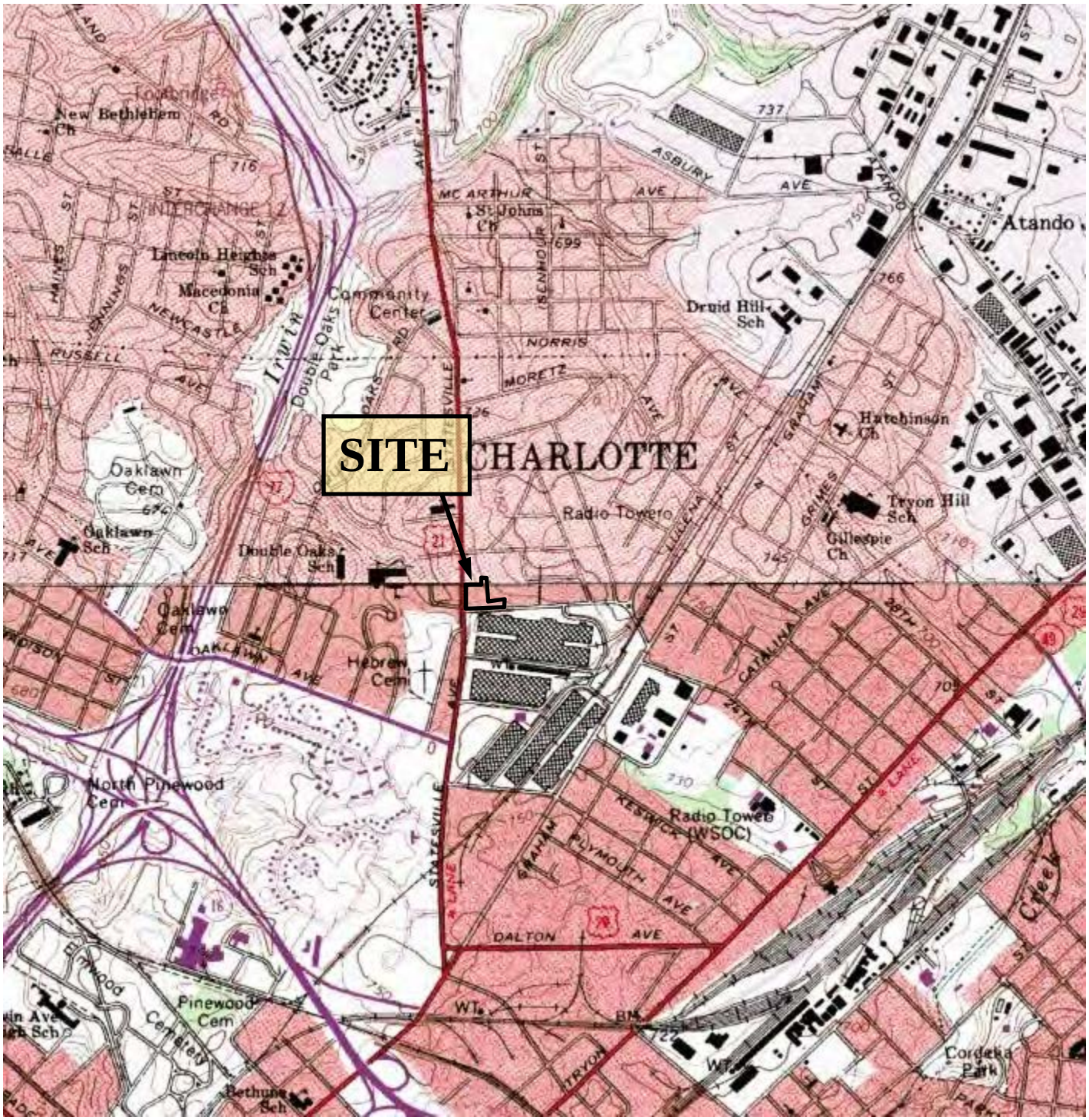
Sample Location	Northwest part of property	Northeast part of property	East part of property	South central part of property	Southwest part of property	**Screening Levels**		
Sample ID	SB-1	SB-2	SB-3	SB-4B	SB-5	**Residential SRG[1]**	**Industrial SRG[1]**	**POG SRG[2]**
Sample Depth (ft)	2-4	2-4	2-4	2-4	6-8			
Sample Date	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013			
VOCs (8260)	ND	ND	ND	ND	ND	varies	varies	varies
PAHs (8270)	ND	ND	ND	ND	ND	varies	varies	varies

Notes:
Units reported in mg/kg
1. NC DENR Inactive Hazardous Sites Branch (IHSB) Residential and Industrial Health Based Soil Remediation Goals (SRGs) - July 2013
2. NC DENR IHSB Protection of Groundwater Soil Remediation Goals (POG SRG) - July 2013
EPA Method follows parameter in parenthesis
ND = Not Detected
VOCs = Volatile Organic Compounds; PAHs = Polynuclear Aromatic Hydrocarbons

Table 3
Groundwater Analytical Data Summary
Vacant Site
2000-2014 Statesville Avenue
Charlotte, North Carolina
H & H Job No. CHP.013

Sample Location	Northwest part of the property	Southwest part of the property	**NC 2L Groundwater Standard (April 2013)**
Sample ID	TW-1	TW-2	
Sample Date	12/2/2013	12/2/2013	
VOCs (8260)			
Methyl-tert-Butyl Ether (MTBE)	ND	**22**	20
PAHs (8270)	ND	ND	varies

Notes:
Units reported in µg/L
EPA Method follows parameter in parenthesis
Only constituents with at least one detection shown
ND = Not Detected
VOCs = Volatile Organic Compounds
PAHs = Polynuclear Aromatic Hydrocarbons
Bold indicates concentration is above NC 2L Groundwater Standard



N

APPROXIMATE

0 2000 4000

SCALE IN FEET

DERITA, NORTH CAROLINA 1996
CHARLOTTE EAST, NORTH CAROLINA 1991

U.S.G.S. QUADRANGLE MAP
7.5 MINUTE SERIES (TOPOGRAPHIC)

SITE LOCATION MAP

Vacant Lot
2000-2014 Statesville Avenue
Charlotte, North Carolina

hart hickman

2923 S. Tryon Street, Suite 100
Charlotte, NC 28203
704.586.0007(p) 704.586.0373(f)

DATE:	12/11/2013	REVISION NO:	0
JOB NO:	CHP-013	FIGURE NO:	1

LEGEND

- SITE PROPERTY BOUNDARY
- STORM DRAIN
- LP LIGHT POLE
- SOIL BORING / TEMPORARY WELL
- SOIL BORING

N

APPROXIMATE
0 80 160
SCALE IN FEET

TITLE: SITE MAP AND SAMPLE LOCATIONS	
PROJECT: VACANT LOT 2000 STATESVILLE AVENUE CHARLOTTE, NC	
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: 12-16-13	REVISION NO. 0
JOB NO. CHP-013	FIGURE NO. 2

S:\AAA-Master Projects\Charlotte Mecklenburg Housing Partnership - CHP\CHP-013 Statesville Ave Phase II\figures\Figure 2.dwg, Figure 2, 12/16/2013 11:29:11 AM, jdavis

Appendix A

Boring Logs

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

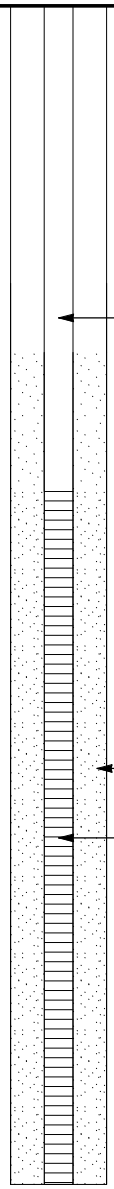
3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER TW-1/SB-1

PROJECT: 2000 Statesville Ave
JOB NUMBER: CHP.013
LOCATION: Charlotte, North Carolina

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0			0	0.3		Topsoil
						Dry, medium dense, brown, SILT, with gravel
			0	0		Dry, soft, reddish brown, clayey SILT
						Moist, soft, reddish brown, clayey SILT
5			0	0		
			0	0.3		Slightly moist, stiff, tan white and red mottled, fine sandy SILT
			0	0.2		
10			0	0.3		
			0	0.4		
15			0	0		Wet, soft, tan white and red mottled, clayey SILT
			0	0.2		Bottom of borehole at 17.0 feet.

BORING DIAGRAM



DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geoprobe 7822 DT / DPT
SAMPLING METHOD: Macro-Core®
LOGGED BY: JAT
DRAWN BY: GES

BORING STARTED: 12/2/13
BORING COMPLETED: 12/2/13
TOTAL DEPTH: 17 ft.
TOP OF CASING ELEV:
DEPTH TO WATER: 11.15 ft.

Remarks:
Soil sample collected from 2 to 4 ft bgs.
Refusal encountered at 17 ft bgs.

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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-2

PROJECT: 2000 Statesville Ave
JOB NUMBER: CHP.013
LOCATION: Charlotte, North Carolina

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0								0
			0	0		Topsoil		
						Moist, loose, reddish brown, clayey SILT		
						Dry, loose, tan light brown, fine sandy SILT		
			0	0				
5			0	0				5
			0	0.5				
			0	0.6				
						Slightly moist, tan and white red mottled, fine sandy SILT		
10			0	0				10
			0	0				
15			0	0.7				15
						Slightly moist, brown grey, fine sandy SILT		
			0	0.3				
						Dry, stiff, grey tan and black mottled, SILT		
						Bottom of borehole at 19.0 feet.		
20								20

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geoprobe 7822 DT / DPT
SAMPLING METHOD: Macro-Core®
LOGGED BY: JAT
DRAWN BY: GES

BORING STARTED: 12/2/13
BORING COMPLETED: 12/2/13
TOTAL DEPTH: 19 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected from 2 to 4 ft bgs.
Refusal encountered at 19 ft bgs.

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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-3

PROJECT: 2000 Statesville Ave
JOB NUMBER: CHP.013
LOCATION: Charlotte, North Carolina

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	0.1		Dry, stiff, grey white, SILT		
2.5			0	0.2		Dry, loose, grey white, coarse sandy SILT		2.5
5.0			0	0.4		Dry, loose, tan white, SILT, with gravel		5.0
						Dry, stiff, white and red mottled, SILT, with gravel		
			0	0.2		Bottom of borehole at 7.0 feet.		
7.5								7.5

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geoprobe 7822 DT / DPT
SAMPLING METHOD: Macro-Core®
LOGGED BY: JAT
DRAWN BY: GES

BORING STARTED: 12/2/13
BORING COMPLETED: 12/2/13
TOTAL DEPTH: 7 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected from 2 to 4 ft bgs.
Refusal encountered at 7 ft bgs.

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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-4B

PROJECT: 2000 Statesville Ave
JOB NUMBER: CHP.013
LOCATION: Charlotte, North Carolina

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0						Topsoil		0
			0	0.8		Dry, loose, reddish brown, SILT		
			0	0.6				
5			0	0.6		Slightly moist, medium stiff, reddish brown SILT		5
			0	0.3		Slightly moist, medium stiff, grey brown, SILT		
			0	0.5				
10								10
			0	0.4		Slightly moist, medium stiff, brown, sandy SILT		
			0	0.3				
15			0	0.3		Slightly moist, medium stiff, grey brown, sandy SILT		15
			0	0.1		Bottom of borehole at 17.0 feet.		

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geoprobe 7822 DT / DPT
SAMPLING METHOD: Macro-Core®
LOGGED BY: JAT
DRAWN BY: GES

BORING STARTED: 12/2/13
BORING COMPLETED: 12/2/13
TOTAL DEPTH: 17 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected from 2 to 4 ft bgs.
Refusal encountered at 17 ft bgs.

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

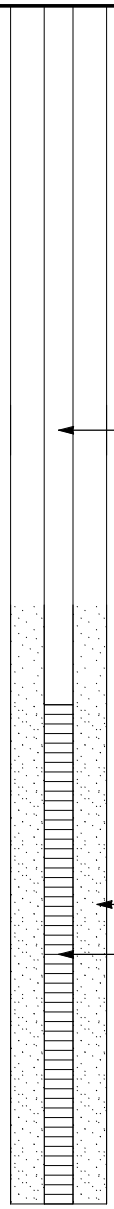
3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER TW-2/SB-5

PROJECT: 2000 Statesville Ave
JOB NUMBER: CHP.013
LOCATION: Charlotte, North Carolina

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0						Topsoil
			0	0		Dry, loose, reddish brown, SILT, trace gravel
			0	0.1		
5			0	0		
			0	1.2		
			0	1		Slightly moist, stiff, orange brown white mottling, SILT
10			0	1.5		Slightly moist, stiff, grey, sandy SILT
			0	1.2		Slightly moist, medium stiff, grey and white specks, sandy SILT
15			0	1.2		Slightly moist, soft to medium stiff, reddish brown grey, SILT
			0	1.5		Moist, loose, reddish black grey, sandy SILT
			0	1.3		
20			0	2.3		
			0	2.7		
25						Bottom of borehole at 24.0 feet.

BORING DIAGRAM



DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geoprobe 7822 DT / DPT
SAMPLING METHOD: Macro-Core®
LOGGED BY: JAT
DRAWN BY: GES

BORING STARTED: 12/2/13
BORING COMPLETED: 12/2/13
TOTAL DEPTH: 24 ft.
TOP OF CASING ELEV:
DEPTH TO WATER: 11.9 ft.

Remarks:
Soil sample collected from 6 to 8 ft bgs.
Refusal encountered at 24 ft bgs.

Appendix B

Monitoring Well Construction and Abandonment Records

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

VINCE FEDERLE

Well Contractor Name

A - 3552

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☑ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 12/02/13 **Well ID#** SB-1

5a. Well Location:

PHASE II ESA

Facility/Owner Name

Facility ID# (if applicable)

2000 STATESVILLE AVENUE CHARLOTTE 28206

Physical Address, City, and Zip

MECKLENBURG

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 15' 00.08" N 80° 50' 08.42" W

6. Is (are) the well(s): ☐ **Permanent** or ☑ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 17.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 12.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2 1/4 **(in.)**

12. Well construction method: DIRECT PUSH

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	7.0 ft.	1.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
7.0 ft.	17.0 ft.	1.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
ft.	ft.		
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
5.0 ft.	17.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	17.0 ft.	DIRECT PUSH
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

TEMPORARY WELL - ABANDONED

22. Certification:

Vincent R. Federle 12/10/13

Signature of Certified Well Contractor Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

VINCE FEDERLE

Well Contractor Name

A - 3552

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐Agricultural
- ☐Municipal/Public
- ☐Geothermal (Heating/Cooling Supply)
- ☐Residential Water Supply (single)
- ☐Industrial/Commercial
- ☐Residential Water Supply (shared)
- ☐Irrigation

Non-Water Supply Well:

- ☑Monitoring
- ☐Recovery

Injection Well:

- ☐Aquifer Recharge
- ☐Groundwater Remediation
- ☐Aquifer Storage and Recovery
- ☐Salinity Barrier
- ☐Aquifer Test
- ☐Stormwater Drainage
- ☐Experimental Technology
- ☐Subsidence Control
- ☐Geothermal (Closed Loop)
- ☐Tracer
- ☐Geothermal (Heating/Cooling Return)
- ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 12/02/13 **Well ID#** SB-5

5a. Well Location:

PHASE II ESA

Facility/Owner Name

Facility ID# (if applicable)

2000 STATESVILLE AVENUE CHARLOTTE 28206

Physical Address, City, and Zip

MECKLENBURG

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 14' 58.89" N 80° 50' 08.34" W

6. Is (are) the well(s): ☐**Permanent** or ☑**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 24.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 19.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2 1/4 **(in.)**

12. Well construction method: DIRECT PUSH

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	14.0 ft.	1.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
14.0 ft.	24.0 ft.	1.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
ft.	ft.		
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
12.0 ft.	24.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	24.0 ft.	DIRECT PUSH
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

TEMPORARY WELL - ABANDONED

22. Certification:

Vincent R. Federle 12/10/13

Signature of Certified Well Contractor

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

VINCE FEDERLE

Well Contractor Name (or well owner personally abandoning well on his/her property)

A - 3552

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 12/02/13

5a. Well location:

PHASE II ESA

Facility/Owner Name — Facility ID# (if applicable)

2000 STATESVILLE ROAD CHARLOTTE 28206

Physical Address, City, and Zip

MECKLENBURG

County — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 15' 00.08" N 80° 50' 08.42" W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: SB-1

6b. Total well depth: 17.0 (ft.)

6c. Borehole diameter: 1.0 (in.)

6d. Water level below ground surface: 12.0 (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: 1

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): 0.25 (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

0.5 GALLONS

7g. Provide a brief description of the abandonment procedure:

WELL ABANDONED VIA TREMIE PIPE WITH PORTLAND BENTONITE SLURRY

8. Certification:

Vincent R. Federle — 12/10/13

Signature of Certified Well Contractor or Well Owner — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

VINCE FEDERLE

Well Contractor Name (or well owner personally abandoning well on his/her property)

A - 3552

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 12/02/13

5a. Well location:

PHASE II ESA

Facility/Owner Name — Facility ID# (if applicable)

2000 STATESVILLE ROAD CHARLOTTE 28206

Physical Address, City, and Zip

MECKLENBURG

County — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 14' 58.89" N 80° 50' 08.34" W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: SB-5

6b. Total well depth: 24.0 **(ft.)**

6c. Borehole diameter: 1.0 **(in.)**

6d. Water level below ground surface: 19.0 **(ft.)**

6e. Outer casing length (if known): _____ **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): _____ **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: 1

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): 0.25 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

0.5 GALLONS

7g. Provide a brief description of the abandonment procedure:

WELL ABANDONED VIA TREMIE PIPE WITH PORTLAND BENTONITE SLURRY

8. Certification:

Vincent R. Federle — 12/10/13

Signature of Certified Well Contractor or Well Owner — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

Appendix C

Laboratory Analytical Data Sheets

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

12/11/2013

Hart & Hickman (Charlotte)
Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Lab Submittal Date: 12/03/2013
Prism Work Order: 3120047

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Robbi A. Jones For Angela D. Overcash
President/Project Manager

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
DM	Sample diluted due to the matrix.
ICV	ICV result is above the control limits. Analyte not detected in the sample. No further action taken.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Sample Receipt Summary

12/11/2013

Prism Work Order: 3120047

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SB-2 (2'-4')	3120047-01	Solid	12/02/13	12/03/13
SB-1 (2'-4')	3120047-02	Solid	12/02/13	12/03/13
TW-1/SB1	3120047-03	Water	12/02/13	12/03/13
SB-3 (2'-4')	3120047-04	Solid	12/02/13	12/03/13
SB-4B (2-4)	3120047-05	Solid	12/02/13	12/03/13
SB-5 (6-8)	3120047-06	Solid	12/02/13	12/03/13
TW-2/SB5	3120047-07	Water	12/02/13	12/03/13

Samples were received in good condition at 5.1 degrees C unless otherwise noted.

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Summary of Detections

12/11/2013

Prism Work Order: 3120047

Prism ID	Client ID	Parameter	Method	Result	Units
3120047-07	TW-2/SB5	Methyl-tert-Butyl Ether	*8260B	22	ug/L

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

12/11/2013

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-2 (2'-4')
Prism Sample ID: 3120047-01
Prism Work Order: 3120047
Time Collected: 12/02/13 11:20
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**80.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/4/13 16:00**	**ANG**	**P3L0100**
Semivolatile Organic Compounds by GC/MS									
1-Methylnaphthalene	BRL	mg/kg dry	0.41	0.095	1	*8270D	12/4/13 17:38	KC	P3L0060
2-Methylnaphthalene	BRL	mg/kg dry	0.41	0.15	1	*8270D	12/4/13 17:38	KC	P3L0060
Acenaphthene	BRL	mg/kg dry	0.41	0.13	1	*8270D	12/4/13 17:38	KC	P3L0060
Acenaphthylene	BRL	mg/kg dry	0.41	0.13	1	*8270D	12/4/13 17:38	KC	P3L0060
Anthracene	BRL	mg/kg dry	0.41	0.080	1	*8270D	12/4/13 17:38	KC	P3L0060
Benzo(a)anthracene	BRL	mg/kg dry	0.41	0.084	1	*8270D	12/4/13 17:38	KC	P3L0060
Benzo(a)pyrene	BRL	mg/kg dry	0.41	0.076	1	*8270D	12/4/13 17:38	KC	P3L0060
Benzo(b)fluoranthene	BRL	mg/kg dry	0.41	0.056	1	*8270D	12/4/13 17:38	KC	P3L0060
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.41	0.13	1	*8270D	12/4/13 17:38	KC	P3L0060
Benzo(k)fluoranthene	BRL	mg/kg dry	0.41	0.12	1	*8270D	12/4/13 17:38	KC	P3L0060
Chrysene	BRL	mg/kg dry	0.41	0.091	1	*8270D	12/4/13 17:38	KC	P3L0060
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.41	0.13	1	*8270D	12/4/13 17:38	KC	P3L0060
Fluoranthene	BRL	mg/kg dry	0.41	0.086	1	*8270D	12/4/13 17:38	KC	P3L0060
Fluorene	BRL	mg/kg dry	0.41	0.095	1	*8270D	12/4/13 17:38	KC	P3L0060
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.41	0.11	1	*8270D	12/4/13 17:38	KC	P3L0060
Naphthalene	BRL	mg/kg dry	0.41	0.16	1	*8270D	12/4/13 17:38	KC	P3L0060
Phenanthrene	BRL	mg/kg dry	0.41	0.072	1	*8270D	12/4/13 17:38	KC	P3L0060
Pyrene	BRL	mg/kg dry	0.41	0.11	1	*8270D	12/4/13 17:38	KC	P3L0060

Surrogate	Recovery	Control Limits
2-Fluorobiphenyl	*98 %*	*47-130*
Nitrobenzene-d5	*91 %*	*45-121*
Terphenyl-d14	*105 %*	*38-135*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0062	0.00020	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0062	0.0010	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0062	0.00052	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,1-Dichloroethane	BRL	mg/kg dry	0.0062	0.00052	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,1-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00038	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,1-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00065	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0062	0.00046	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0062	0.00094	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0062	0.00036	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0062	0.0012	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,2-Dibromoethane	BRL	mg/kg dry	0.0062	0.00071	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00028	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,2-Dichloroethane	BRL	mg/kg dry	0.0062	0.0010	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,2-Dichloropropane	BRL	mg/kg dry	0.0062	0.00039	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0062	0.00030	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.000086	1	*8260B	12/3/13 15:53	MSC	P3L0061

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

12/11/2013

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-2 (2'-4')
Prism Sample ID: 3120047-01
Prism Work Order: 3120047
Time Collected: 12/02/13 11:20
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	mg/kg dry	0.0062	0.00067	1	*8260B	12/3/13 15:53	MSC	P3L0061
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00045	1	*8260B	12/3/13 15:53	MSC	P3L0061
2,2-Dichloropropane	BRL	mg/kg dry	0.0062	0.00039	1	*8260B	12/3/13 15:53	MSC	P3L0061
2-Chlorotoluene	BRL	mg/kg dry	0.0062	0.00038	1	*8260B	12/3/13 15:53	MSC	P3L0061
4-Chlorotoluene	BRL	mg/kg dry	0.0062	0.00029	1	*8260B	12/3/13 15:53	MSC	P3L0061
4-Isopropyltoluene	BRL	mg/kg dry	0.0062	0.00039	1	*8260B	12/3/13 15:53	MSC	P3L0061
Acetone	BRL	mg/kg dry	0.062	0.0033	1	*8260B	12/3/13 15:53	MSC	P3L0061
Benzene	BRL	mg/kg dry	0.0037	0.00038	1	*8260B	12/3/13 15:53	MSC	P3L0061
Bromobenzene	BRL	mg/kg dry	0.0062	0.00026	1	*8260B	12/3/13 15:53	MSC	P3L0061
Bromochloromethane	BRL	mg/kg dry	0.0062	0.00090	1	*8260B	12/3/13 15:53	MSC	P3L0061
Bromodichloromethane	BRL	mg/kg dry	0.0062	0.00029	1	*8260B	12/3/13 15:53	MSC	P3L0061
Bromoform	BRL	mg/kg dry	0.0062	0.0011	1	*8260B	12/3/13 15:53	MSC	P3L0061
Bromomethane	BRL	mg/kg dry	0.012	0.0017	1	*8260B	12/3/13 15:53	MSC	P3L0061
Carbon Tetrachloride	BRL	mg/kg dry	0.0062	0.00034	1	*8260B	12/3/13 15:53	MSC	P3L0061
Chlorobenzene	BRL	mg/kg dry	0.0062	0.00029	1	*8260B	12/3/13 15:53	MSC	P3L0061
Chloroethane	BRL	mg/kg dry	0.012	0.0047	1	*8260B	12/3/13 15:53	MSC	P3L0061
Chloroform	BRL	mg/kg dry	0.0062	0.00026	1	*8260B	12/3/13 15:53	MSC	P3L0061
Chloromethane	BRL	mg/kg dry	0.0062	0.0031	1	*8260B	12/3/13 15:53	MSC	P3L0061
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00050	1	*8260B	12/3/13 15:53	MSC	P3L0061
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00031	1	*8260B	12/3/13 15:53	MSC	P3L0061
Dibromochloromethane	BRL	mg/kg dry	0.0062	0.00042	1	*8260B	12/3/13 15:53	MSC	P3L0061
Dichlorodifluoromethane	BRL ICV	mg/kg dry	0.0062	0.00066	1	*8260B	12/3/13 15:53	MSC	P3L0061
Ethylbenzene	BRL	mg/kg dry	0.0062	0.00040	1	*8260B	12/3/13 15:53	MSC	P3L0061
Isopropyl Ether	BRL	mg/kg dry	0.0062	0.00027	1	*8260B	12/3/13 15:53	MSC	P3L0061
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0062	0.00031	1	*8260B	12/3/13 15:53	MSC	P3L0061
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00080	1	*8260B	12/3/13 15:53	MSC	P3L0061
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.062	0.0013	1	*8260B	12/3/13 15:53	MSC	P3L0061
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.0022	1	*8260B	12/3/13 15:53	MSC	P3L0061
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.062	0.0016	1	*8260B	12/3/13 15:53	MSC	P3L0061
Methylene Chloride	BRL	mg/kg dry	0.0062	0.00045	1	*8260B	12/3/13 15:53	MSC	P3L0061
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00048	1	*8260B	12/3/13 15:53	MSC	P3L0061
Naphthalene	BRL	mg/kg dry	0.012	0.00045	1	*8260B	12/3/13 15:53	MSC	P3L0061
n-Butylbenzene	BRL	mg/kg dry	0.0062	0.00027	1	*8260B	12/3/13 15:53	MSC	P3L0061
n-Propylbenzene	BRL	mg/kg dry	0.0062	0.00035	1	*8260B	12/3/13 15:53	MSC	P3L0061
o-Xylene	BRL	mg/kg dry	0.0062	0.00039	1	*8260B	12/3/13 15:53	MSC	P3L0061
sec-Butylbenzene	BRL	mg/kg dry	0.0062	0.00025	1	*8260B	12/3/13 15:53	MSC	P3L0061
Styrene	BRL	mg/kg dry	0.0062	0.00027	1	*8260B	12/3/13 15:53	MSC	P3L0061
tert-Butylbenzene	BRL	mg/kg dry	0.0062	0.00032	1	*8260B	12/3/13 15:53	MSC	P3L0061
Tetrachloroethylene	BRL	mg/kg dry	0.0062	0.00043	1	*8260B	12/3/13 15:53	MSC	P3L0061
Toluene	BRL	mg/kg dry	0.0062	0.00037	1	*8260B	12/3/13 15:53	MSC	P3L0061
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00072	1	*8260B	12/3/13 15:53	MSC	P3L0061
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00030	1	*8260B	12/3/13 15:53	MSC	P3L0061
Trichloroethylene	BRL	mg/kg dry	0.0062	0.00057	1	*8260B	12/3/13 15:53	MSC	P3L0061

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Laboratory Report

12/11/2013

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-2 (2'-4')
Prism Sample ID: 3120047-01
Prism Work Order: 3120047
Time Collected: 12/02/13 11:20
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Trichlorofluoromethane	BRL	mg/kg dry	0.0062	0.00050	1	*8260B	12/3/13 15:53	MSC	P3L0061
Vinyl acetate	BRL	mg/kg dry	0.031	0.0018	1	*8260B	12/3/13 15:53	MSC	P3L0061
Vinyl chloride	BRL	mg/kg dry	0.0062	0.00080	1	*8260B	12/3/13 15:53	MSC	P3L0061
Xylenes, total	BRL	mg/kg dry	0.019	0.0012	1	*8260B	12/3/13 15:53	MSC	P3L0061

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*96 %*	*70-130*
Dibromofluoromethane	*100 %*	*84-123*
Toluene-d8	*95 %*	*76-129*

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Laboratory Report

12/11/2013

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-1 (2'-4')
Prism Sample ID: 3120047-02
Prism Work Order: 3120047
Time Collected: 12/02/13 10:40
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**82.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/4/13 16:00**	**ANG**	**P3L0100**
Semivolatile Organic Compounds by GC/MS									DM
1-Methylnaphthalene	BRL	mg/kg dry	4.0	0.92	10	*8270D	12/4/13 19:04	KC	P3L0060
2-Methylnaphthalene	BRL	mg/kg dry	4.0	1.5	10	*8270D	12/4/13 19:04	KC	P3L0060
Acenaphthene	BRL	mg/kg dry	4.0	1.2	10	*8270D	12/4/13 19:04	KC	P3L0060
Acenaphthylene	BRL	mg/kg dry	4.0	1.3	10	*8270D	12/4/13 19:04	KC	P3L0060
Anthracene	BRL	mg/kg dry	4.0	0.78	10	*8270D	12/4/13 19:04	KC	P3L0060
Benzo(a)anthracene	BRL	mg/kg dry	4.0	0.82	10	*8270D	12/4/13 19:04	KC	P3L0060
Benzo(a)pyrene	BRL	mg/kg dry	4.0	0.74	10	*8270D	12/4/13 19:04	KC	P3L0060
Benzo(b)fluoranthene	BRL	mg/kg dry	4.0	0.54	10	*8270D	12/4/13 19:04	KC	P3L0060
Benzo(g,h,i)perylene	BRL	mg/kg dry	4.0	1.3	10	*8270D	12/4/13 19:04	KC	P3L0060
Benzo(k)fluoranthene	BRL	mg/kg dry	4.0	1.2	10	*8270D	12/4/13 19:04	KC	P3L0060
Chrysene	BRL	mg/kg dry	4.0	0.89	10	*8270D	12/4/13 19:04	KC	P3L0060
Dibenzo(a,h)anthracene	BRL	mg/kg dry	4.0	1.3	10	*8270D	12/4/13 19:04	KC	P3L0060
Fluoranthene	BRL	mg/kg dry	4.0	0.84	10	*8270D	12/4/13 19:04	KC	P3L0060
Fluorene	BRL	mg/kg dry	4.0	0.93	10	*8270D	12/4/13 19:04	KC	P3L0060
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	4.0	1.1	10	*8270D	12/4/13 19:04	KC	P3L0060
Naphthalene	BRL	mg/kg dry	4.0	1.5	10	*8270D	12/4/13 19:04	KC	P3L0060
Phenanthrene	BRL	mg/kg dry	4.0	0.70	10	*8270D	12/4/13 19:04	KC	P3L0060
Pyrene	BRL	mg/kg dry	4.0	1.1	10	*8270D	12/4/13 19:04	KC	P3L0060

Surrogate	Recovery	Control Limits
2-Fluorobiphenyl	*96 %*	*47-130*
Nitrobenzene-d5	*81 %*	*45-121*
Terphenyl-d14	*90 %*	*38-135*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0062	0.00020	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0062	0.0010	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0062	0.00052	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,1-Dichloroethane	BRL	mg/kg dry	0.0062	0.00052	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,1-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00037	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,1-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00065	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0062	0.00046	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0062	0.00093	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0062	0.00036	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0062	0.0012	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,2-Dibromoethane	BRL	mg/kg dry	0.0062	0.00071	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00028	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,2-Dichloroethane	BRL	mg/kg dry	0.0062	0.00099	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,2-Dichloropropane	BRL	mg/kg dry	0.0062	0.00039	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0062	0.00029	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.000085	1	*8260B	12/3/13 16:21	MSC	P3L0061

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Laboratory Report

12/11/2013

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-1 (2'-4')
Prism Sample ID: 3120047-02
Prism Work Order: 3120047
Time Collected: 12/02/13 10:40
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	mg/kg dry	0.0062	0.00067	1	*8260B	12/3/13 16:21	MSC	P3L0061
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00045	1	*8260B	12/3/13 16:21	MSC	P3L0061
2,2-Dichloropropane	BRL	mg/kg dry	0.0062	0.00039	1	*8260B	12/3/13 16:21	MSC	P3L0061
2-Chlorotoluene	BRL	mg/kg dry	0.0062	0.00038	1	*8260B	12/3/13 16:21	MSC	P3L0061
4-Chlorotoluene	BRL	mg/kg dry	0.0062	0.00029	1	*8260B	12/3/13 16:21	MSC	P3L0061
4-Isopropyltoluene	BRL	mg/kg dry	0.0062	0.00039	1	*8260B	12/3/13 16:21	MSC	P3L0061
Acetone	BRL	mg/kg dry	0.062	0.0033	1	*8260B	12/3/13 16:21	MSC	P3L0061
Benzene	BRL	mg/kg dry	0.0037	0.00037	1	*8260B	12/3/13 16:21	MSC	P3L0061
Bromobenzene	BRL	mg/kg dry	0.0062	0.00026	1	*8260B	12/3/13 16:21	MSC	P3L0061
Bromochloromethane	BRL	mg/kg dry	0.0062	0.00090	1	*8260B	12/3/13 16:21	MSC	P3L0061
Bromodichloromethane	BRL	mg/kg dry	0.0062	0.00028	1	*8260B	12/3/13 16:21	MSC	P3L0061
Bromoform	BRL	mg/kg dry	0.0062	0.0011	1	*8260B	12/3/13 16:21	MSC	P3L0061
Bromomethane	BRL	mg/kg dry	0.012	0.0017	1	*8260B	12/3/13 16:21	MSC	P3L0061
Carbon Tetrachloride	BRL	mg/kg dry	0.0062	0.00034	1	*8260B	12/3/13 16:21	MSC	P3L0061
Chlorobenzene	BRL	mg/kg dry	0.0062	0.00029	1	*8260B	12/3/13 16:21	MSC	P3L0061
Chloroethane	BRL	mg/kg dry	0.012	0.0047	1	*8260B	12/3/13 16:21	MSC	P3L0061
Chloroform	BRL	mg/kg dry	0.0062	0.00026	1	*8260B	12/3/13 16:21	MSC	P3L0061
Chloromethane	BRL	mg/kg dry	0.0062	0.0031	1	*8260B	12/3/13 16:21	MSC	P3L0061
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00050	1	*8260B	12/3/13 16:21	MSC	P3L0061
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00031	1	*8260B	12/3/13 16:21	MSC	P3L0061
Dibromochloromethane	BRL	mg/kg dry	0.0062	0.00042	1	*8260B	12/3/13 16:21	MSC	P3L0061
Dichlorodifluoromethane	BRL ICV	mg/kg dry	0.0062	0.00066	1	*8260B	12/3/13 16:21	MSC	P3L0061
Ethylbenzene	BRL	mg/kg dry	0.0062	0.00040	1	*8260B	12/3/13 16:21	MSC	P3L0061
Isopropyl Ether	BRL	mg/kg dry	0.0062	0.00026	1	*8260B	12/3/13 16:21	MSC	P3L0061
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0062	0.00031	1	*8260B	12/3/13 16:21	MSC	P3L0061
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00079	1	*8260B	12/3/13 16:21	MSC	P3L0061
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.062	0.0013	1	*8260B	12/3/13 16:21	MSC	P3L0061
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.0022	1	*8260B	12/3/13 16:21	MSC	P3L0061
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.062	0.0016	1	*8260B	12/3/13 16:21	MSC	P3L0061
Methylene Chloride	BRL	mg/kg dry	0.0062	0.00045	1	*8260B	12/3/13 16:21	MSC	P3L0061
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00047	1	*8260B	12/3/13 16:21	MSC	P3L0061
Naphthalene	BRL	mg/kg dry	0.012	0.00045	1	*8260B	12/3/13 16:21	MSC	P3L0061
n-Butylbenzene	BRL	mg/kg dry	0.0062	0.00027	1	*8260B	12/3/13 16:21	MSC	P3L0061
n-Propylbenzene	BRL	mg/kg dry	0.0062	0.00035	1	*8260B	12/3/13 16:21	MSC	P3L0061
o-Xylene	BRL	mg/kg dry	0.0062	0.00039	1	*8260B	12/3/13 16:21	MSC	P3L0061
sec-Butylbenzene	BRL	mg/kg dry	0.0062	0.00025	1	*8260B	12/3/13 16:21	MSC	P3L0061
Styrene	BRL	mg/kg dry	0.0062	0.00027	1	*8260B	12/3/13 16:21	MSC	P3L0061
tert-Butylbenzene	BRL	mg/kg dry	0.0062	0.00032	1	*8260B	12/3/13 16:21	MSC	P3L0061
Tetrachloroethylene	BRL	mg/kg dry	0.0062	0.00043	1	*8260B	12/3/13 16:21	MSC	P3L0061
Toluene	BRL	mg/kg dry	0.0062	0.00037	1	*8260B	12/3/13 16:21	MSC	P3L0061
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00071	1	*8260B	12/3/13 16:21	MSC	P3L0061
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00030	1	*8260B	12/3/13 16:21	MSC	P3L0061
Trichloroethylene	BRL	mg/kg dry	0.0062	0.00057	1	*8260B	12/3/13 16:21	MSC	P3L0061

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-1 (2'-4')
Prism Sample ID: 3120047-02
Prism Work Order: 3120047
Time Collected: 12/02/13 10:40
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Trichlorofluoromethane	BRL	mg/kg dry	0.0062	0.00050	1	*8260B	12/3/13 16:21	MSC	P3L0061
Vinyl acetate	BRL	mg/kg dry	0.031	0.0017	1	*8260B	12/3/13 16:21	MSC	P3L0061
Vinyl chloride	BRL	mg/kg dry	0.0062	0.00080	1	*8260B	12/3/13 16:21	MSC	P3L0061
Xylenes, total	BRL	mg/kg dry	0.018	0.0012	1	*8260B	12/3/13 16:21	MSC	P3L0061

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*70-130*
Dibromofluoromethane	*102 %*	*84-123*
Toluene-d8	*98 %*	*76-129*

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Water

Client Sample ID: TW-1/SB1
Prism Sample ID: 3120047-03
Prism Work Order: 3120047
Time Collected: 12/02/13 16:50
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1-Methylnaphthalene	BRL	ug/L	14	3.5	1	*8270D	12/9/13 17:02	KC	P3L0145
2-Methylnaphthalene	BRL	ug/L	14	3.7	1	*8270D	12/9/13 17:02	KC	P3L0145
Acenaphthene	BRL	ug/L	14	2.9	1	*8270D	12/9/13 17:02	KC	P3L0145
Acenaphthylene	BRL	ug/L	14	3.1	1	*8270D	12/9/13 17:02	KC	P3L0145
Anthracene	BRL	ug/L	14	1.7	1	*8270D	12/9/13 17:02	KC	P3L0145
Benzo(a)anthracene	BRL	ug/L	14	1.3	1	*8270D	12/9/13 17:02	KC	P3L0145
Benzo(a)pyrene	BRL	ug/L	14	1.5	1	*8270D	12/9/13 17:02	KC	P3L0145
Benzo(b)fluoranthene	BRL	ug/L	14	1.9	1	*8270D	12/9/13 17:02	KC	P3L0145
Benzo(g,h,i)perylene	BRL	ug/L	14	3.0	1	*8270D	12/9/13 17:02	KC	P3L0145
Benzo(k)fluoranthene	BRL	ug/L	14	1.5	1	*8270D	12/9/13 17:02	KC	P3L0145
Chrysene	BRL	ug/L	14	1.7	1	*8270D	12/9/13 17:02	KC	P3L0145
Dibenzo(a,h)anthracene	BRL	ug/L	14	2.5	1	*8270D	12/9/13 17:02	KC	P3L0145
Fluoranthene	BRL	ug/L	14	1.3	1	*8270D	12/9/13 17:02	KC	P3L0145
Fluorene	BRL	ug/L	14	2.6	1	*8270D	12/9/13 17:02	KC	P3L0145
Indeno(1,2,3-cd)pyrene	BRL	ug/L	14	2.2	1	*8270D	12/9/13 17:02	KC	P3L0145
Naphthalene	BRL	ug/L	14	3.2	1	*8270D	12/9/13 17:02	KC	P3L0145
Phenanthrene	BRL	ug/L	14	1.6	1	*8270D	12/9/13 17:02	KC	P3L0145
Pyrene	BRL	ug/L	14	1.9	1	*8270D	12/9/13 17:02	KC	P3L0145

Surrogate	Recovery	Control Limits
2-Fluorobiphenyl	*85 %*	*55-96*
Nitrobenzene-d5	*80 %*	*53-99*
Terphenyl-d14	*96 %*	*42-133*

Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	12/3/13 23:17	VHL	P3L0089
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	12/3/13 23:17	VHL	P3L0089

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Water

Client Sample ID: TW-1/SB1
Prism Sample ID: 3120047-03
Prism Work Order: 3120047
Time Collected: 12/02/13 16:50
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	12/3/13 23:17	VHL	P3L0089
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	12/3/13 23:17	VHL	P3L0089
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	*8260B	12/3/13 23:17	VHL	P3L0089
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	12/3/13 23:17	VHL	P3L0089
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	12/3/13 23:17	VHL	P3L0089
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	12/3/13 23:17	VHL	P3L0089
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	12/3/13 23:17	VHL	P3L0089
Acrolein	BRL	ug/L	20	1.1	1	*8260B	12/3/13 23:17	VHL	P3L0089
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	12/3/13 23:17	VHL	P3L0089
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	12/3/13 23:17	VHL	P3L0089
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	12/3/13 23:17	VHL	P3L0089
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	12/3/13 23:17	VHL	P3L0089
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	12/3/13 23:17	VHL	P3L0089
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	12/3/13 23:17	VHL	P3L0089
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	12/3/13 23:17	VHL	P3L0089
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	12/3/13 23:17	VHL	P3L0089
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	12/3/13 23:17	VHL	P3L0089
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	12/3/13 23:17	VHL	P3L0089
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	12/3/13 23:17	VHL	P3L0089
Chloroform	BRL	ug/L	0.50	0.089	1	*8260B	12/3/13 23:17	VHL	P3L0089
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	12/3/13 23:17	VHL	P3L0089
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	*8260B	12/3/13 23:17	VHL	P3L0089
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	12/3/13 23:17	VHL	P3L0089
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	12/3/13 23:17	VHL	P3L0089
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	12/3/13 23:17	VHL	P3L0089
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	12/3/13 23:17	VHL	P3L0089
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	12/3/13 23:17	VHL	P3L0089
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	12/3/13 23:17	VHL	P3L0089
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	12/3/13 23:17	VHL	P3L0089
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	12/3/13 23:17	VHL	P3L0089
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	12/3/13 23:17	VHL	P3L0089
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	12/3/13 23:17	VHL	P3L0089
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	12/3/13 23:17	VHL	P3L0089
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	12/3/13 23:17	VHL	P3L0089
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	12/3/13 23:17	VHL	P3L0089
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	*8260B	12/3/13 23:17	VHL	P3L0089
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	12/3/13 23:17	VHL	P3L0089
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	12/3/13 23:17	VHL	P3L0089
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	12/3/13 23:17	VHL	P3L0089
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	12/3/13 23:17	VHL	P3L0089
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	12/3/13 23:17	VHL	P3L0089
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	12/3/13 23:17	VHL	P3L0089
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	12/3/13 23:17	VHL	P3L0089

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Laboratory Report

12/11/2013

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Water

Client Sample ID: TW-1/SB1
Prism Sample ID: 3120047-03
Prism Work Order: 3120047
Time Collected: 12/02/13 16:50
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	12/3/13 23:17	VHL	P3L0089
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	12/3/13 23:17	VHL	P3L0089
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	*8260B	12/3/13 23:17	VHL	P3L0089
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	12/3/13 23:17	VHL	P3L0089
Trichloroethylene	BRL	ug/L	0.50	0.054	1	*8260B	12/3/13 23:17	VHL	P3L0089
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	12/3/13 23:17	VHL	P3L0089
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	12/3/13 23:17	VHL	P3L0089
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	12/3/13 23:17	VHL	P3L0089
Xylenes, total	BRL	ug/L	3.0	0.13	1	*8260B	12/3/13 23:17	VHL	P3L0089

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*111 %*	*80-124*
Dibromofluoromethane	*114 %*	*75-129*
Toluene-d8	*117 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-3 (2'-4')
Prism Sample ID: 3120047-04
Prism Work Order: 3120047
Time Collected: 12/02/13 11:55
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**91.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/4/13 16:00**	**ANG**	**P3L0100**
Semivolatile Organic Compounds by GC/MS									
1-Methylnaphthalene	BRL	mg/kg dry	0.36	0.083	1	*8270D	12/4/13 18:00	KC	P3L0060
2-Methylnaphthalene	BRL	mg/kg dry	0.36	0.13	1	*8270D	12/4/13 18:00	KC	P3L0060
Acenaphthene	BRL	mg/kg dry	0.36	0.11	1	*8270D	12/4/13 18:00	KC	P3L0060
Acenaphthylene	BRL	mg/kg dry	0.36	0.11	1	*8270D	12/4/13 18:00	KC	P3L0060
Anthracene	BRL	mg/kg dry	0.36	0.071	1	*8270D	12/4/13 18:00	KC	P3L0060
Benzo(a)anthracene	BRL	mg/kg dry	0.36	0.074	1	*8270D	12/4/13 18:00	KC	P3L0060
Benzo(a)pyrene	BRL	mg/kg dry	0.36	0.067	1	*8270D	12/4/13 18:00	KC	P3L0060
Benzo(b)fluoranthene	BRL	mg/kg dry	0.36	0.049	1	*8270D	12/4/13 18:00	KC	P3L0060
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.36	0.11	1	*8270D	12/4/13 18:00	KC	P3L0060
Benzo(k)fluoranthene	BRL	mg/kg dry	0.36	0.11	1	*8270D	12/4/13 18:00	KC	P3L0060
Chrysene	BRL	mg/kg dry	0.36	0.080	1	*8270D	12/4/13 18:00	KC	P3L0060
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.36	0.12	1	*8270D	12/4/13 18:00	KC	P3L0060
Fluoranthene	BRL	mg/kg dry	0.36	0.076	1	*8270D	12/4/13 18:00	KC	P3L0060
Fluorene	BRL	mg/kg dry	0.36	0.084	1	*8270D	12/4/13 18:00	KC	P3L0060
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.36	0.095	1	*8270D	12/4/13 18:00	KC	P3L0060
Naphthalene	BRL	mg/kg dry	0.36	0.14	1	*8270D	12/4/13 18:00	KC	P3L0060
Phenanthrene	BRL	mg/kg dry	0.36	0.063	1	*8270D	12/4/13 18:00	KC	P3L0060
Pyrene	BRL	mg/kg dry	0.36	0.099	1	*8270D	12/4/13 18:00	KC	P3L0060

Surrogate	Recovery	Control Limits
2-Fluorobiphenyl	*100 %*	*47-130*
Nitrobenzene-d5	*96 %*	*45-121*
Terphenyl-d14	*103 %*	*38-135*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0058	0.00019	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0058	0.00096	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0058	0.00049	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,1-Dichloroethane	BRL	mg/kg dry	0.0058	0.00049	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,1-Dichloroethylene	BRL	mg/kg dry	0.0058	0.00035	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,1-Dichloropropylene	BRL	mg/kg dry	0.0058	0.00061	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0058	0.00043	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0058	0.00088	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0058	0.00034	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0058	0.0011	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,2-Dibromoethane	BRL	mg/kg dry	0.0058	0.00067	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0058	0.00026	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,2-Dichloroethane	BRL	mg/kg dry	0.0058	0.00094	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,2-Dichloropropane	BRL	mg/kg dry	0.0058	0.00037	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0058	0.00028	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0058	0.000080	1	*8260B	12/3/13 16:48	MSC	P3L0061

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Laboratory Report

12/11/2013

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-3 (2'-4')
Prism Sample ID: 3120047-04
Prism Work Order: 3120047
Time Collected: 12/02/13 11:55
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	mg/kg dry	0.0058	0.00063	1	*8260B	12/3/13 16:48	MSC	P3L0061
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0058	0.00042	1	*8260B	12/3/13 16:48	MSC	P3L0061
2,2-Dichloropropane	BRL	mg/kg dry	0.0058	0.00037	1	*8260B	12/3/13 16:48	MSC	P3L0061
2-Chlorotoluene	BRL	mg/kg dry	0.0058	0.00035	1	*8260B	12/3/13 16:48	MSC	P3L0061
4-Chlorotoluene	BRL	mg/kg dry	0.0058	0.00027	1	*8260B	12/3/13 16:48	MSC	P3L0061
4-Isopropyltoluene	BRL	mg/kg dry	0.0058	0.00037	1	*8260B	12/3/13 16:48	MSC	P3L0061
Acetone	BRL	mg/kg dry	0.058	0.0031	1	*8260B	12/3/13 16:48	MSC	P3L0061
Benzene	BRL	mg/kg dry	0.0035	0.00035	1	*8260B	12/3/13 16:48	MSC	P3L0061
Bromobenzene	BRL	mg/kg dry	0.0058	0.00025	1	*8260B	12/3/13 16:48	MSC	P3L0061
Bromochloromethane	BRL	mg/kg dry	0.0058	0.00084	1	*8260B	12/3/13 16:48	MSC	P3L0061
Bromodichloromethane	BRL	mg/kg dry	0.0058	0.00027	1	*8260B	12/3/13 16:48	MSC	P3L0061
Bromoform	BRL	mg/kg dry	0.0058	0.0010	1	*8260B	12/3/13 16:48	MSC	P3L0061
Bromomethane	BRL	mg/kg dry	0.012	0.0016	1	*8260B	12/3/13 16:48	MSC	P3L0061
Carbon Tetrachloride	BRL	mg/kg dry	0.0058	0.00032	1	*8260B	12/3/13 16:48	MSC	P3L0061
Chlorobenzene	BRL	mg/kg dry	0.0058	0.00027	1	*8260B	12/3/13 16:48	MSC	P3L0061
Chloroethane	BRL	mg/kg dry	0.012	0.0044	1	*8260B	12/3/13 16:48	MSC	P3L0061
Chloroform	BRL	mg/kg dry	0.0058	0.00024	1	*8260B	12/3/13 16:48	MSC	P3L0061
Chloromethane	BRL	mg/kg dry	0.0058	0.0029	1	*8260B	12/3/13 16:48	MSC	P3L0061
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0058	0.00047	1	*8260B	12/3/13 16:48	MSC	P3L0061
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0058	0.00029	1	*8260B	12/3/13 16:48	MSC	P3L0061
Dibromochloromethane	BRL	mg/kg dry	0.0058	0.00039	1	*8260B	12/3/13 16:48	MSC	P3L0061
Dichlorodifluoromethane	BRL ICV	mg/kg dry	0.0058	0.00062	1	*8260B	12/3/13 16:48	MSC	P3L0061
Ethylbenzene	BRL	mg/kg dry	0.0058	0.00037	1	*8260B	12/3/13 16:48	MSC	P3L0061
Isopropyl Ether	BRL	mg/kg dry	0.0058	0.00025	1	*8260B	12/3/13 16:48	MSC	P3L0061
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0058	0.00029	1	*8260B	12/3/13 16:48	MSC	P3L0061
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00075	1	*8260B	12/3/13 16:48	MSC	P3L0061
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.058	0.0012	1	*8260B	12/3/13 16:48	MSC	P3L0061
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.0021	1	*8260B	12/3/13 16:48	MSC	P3L0061
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.058	0.0015	1	*8260B	12/3/13 16:48	MSC	P3L0061
Methylene Chloride	BRL	mg/kg dry	0.0058	0.00042	1	*8260B	12/3/13 16:48	MSC	P3L0061
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00045	1	*8260B	12/3/13 16:48	MSC	P3L0061
Naphthalene	BRL	mg/kg dry	0.012	0.00043	1	*8260B	12/3/13 16:48	MSC	P3L0061
n-Butylbenzene	BRL	mg/kg dry	0.0058	0.00026	1	*8260B	12/3/13 16:48	MSC	P3L0061
n-Propylbenzene	BRL	mg/kg dry	0.0058	0.00033	1	*8260B	12/3/13 16:48	MSC	P3L0061
o-Xylene	BRL	mg/kg dry	0.0058	0.00037	1	*8260B	12/3/13 16:48	MSC	P3L0061
sec-Butylbenzene	BRL	mg/kg dry	0.0058	0.00023	1	*8260B	12/3/13 16:48	MSC	P3L0061
Styrene	BRL	mg/kg dry	0.0058	0.00025	1	*8260B	12/3/13 16:48	MSC	P3L0061
tert-Butylbenzene	BRL	mg/kg dry	0.0058	0.00030	1	*8260B	12/3/13 16:48	MSC	P3L0061
Tetrachloroethylene	BRL	mg/kg dry	0.0058	0.00040	1	*8260B	12/3/13 16:48	MSC	P3L0061
Toluene	BRL	mg/kg dry	0.0058	0.00034	1	*8260B	12/3/13 16:48	MSC	P3L0061
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0058	0.00067	1	*8260B	12/3/13 16:48	MSC	P3L0061
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0058	0.00028	1	*8260B	12/3/13 16:48	MSC	P3L0061
Trichloroethylene	BRL	mg/kg dry	0.0058	0.00054	1	*8260B	12/3/13 16:48	MSC	P3L0061

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-3 (2'-4')
Prism Sample ID: 3120047-04
Prism Work Order: 3120047
Time Collected: 12/02/13 11:55
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Trichlorofluoromethane	BRL	mg/kg dry	0.0058	0.00047	1	*8260B	12/3/13 16:48	MSC	P3L0061
Vinyl acetate	BRL	mg/kg dry	0.029	0.0016	1	*8260B	12/3/13 16:48	MSC	P3L0061
Vinyl chloride	BRL	mg/kg dry	0.0058	0.00075	1	*8260B	12/3/13 16:48	MSC	P3L0061
Xylenes, total	BRL	mg/kg dry	0.017	0.0011	1	*8260B	12/3/13 16:48	MSC	P3L0061

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*92 %*	*70-130*
Dibromofluoromethane	*95 %*	*84-123*
Toluene-d8	*94 %*	*76-129*

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-4B (2-4)
Prism Sample ID: 3120047-05
Prism Work Order: 3120047
Time Collected: 12/02/13 15:05
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**78.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/4/13 16:00**	**ANG**	**P3L0100**
Semivolatile Organic Compounds by GC/MS									
1-Methylnaphthalene	BRL	mg/kg dry	0.42	0.098	1	*8270D	12/4/13 18:21	KC	P3L0060
2-Methylnaphthalene	BRL	mg/kg dry	0.42	0.16	1	*8270D	12/4/13 18:21	KC	P3L0060
Acenaphthene	BRL	mg/kg dry	0.42	0.13	1	*8270D	12/4/13 18:21	KC	P3L0060
Acenaphthylene	BRL	mg/kg dry	0.42	0.13	1	*8270D	12/4/13 18:21	KC	P3L0060
Anthracene	BRL	mg/kg dry	0.42	0.083	1	*8270D	12/4/13 18:21	KC	P3L0060
Benzo(a)anthracene	BRL	mg/kg dry	0.42	0.087	1	*8270D	12/4/13 18:21	KC	P3L0060
Benzo(a)pyrene	BRL	mg/kg dry	0.42	0.079	1	*8270D	12/4/13 18:21	KC	P3L0060
Benzo(b)fluoranthene	BRL	mg/kg dry	0.42	0.058	1	*8270D	12/4/13 18:21	KC	P3L0060
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.42	0.13	1	*8270D	12/4/13 18:21	KC	P3L0060
Benzo(k)fluoranthene	BRL	mg/kg dry	0.42	0.12	1	*8270D	12/4/13 18:21	KC	P3L0060
Chrysene	BRL	mg/kg dry	0.42	0.094	1	*8270D	12/4/13 18:21	KC	P3L0060
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.42	0.14	1	*8270D	12/4/13 18:21	KC	P3L0060
Fluoranthene	BRL	mg/kg dry	0.42	0.089	1	*8270D	12/4/13 18:21	KC	P3L0060
Fluorene	BRL	mg/kg dry	0.42	0.098	1	*8270D	12/4/13 18:21	KC	P3L0060
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.42	0.11	1	*8270D	12/4/13 18:21	KC	P3L0060
Naphthalene	BRL	mg/kg dry	0.42	0.16	1	*8270D	12/4/13 18:21	KC	P3L0060
Phenanthrene	BRL	mg/kg dry	0.42	0.074	1	*8270D	12/4/13 18:21	KC	P3L0060
Pyrene	BRL	mg/kg dry	0.42	0.12	1	*8270D	12/4/13 18:21	KC	P3L0060

Surrogate	Recovery	Control Limits
2-Fluorobiphenyl	*95 %*	*47-130*
Nitrobenzene-d5	*89 %*	*45-121*
Terphenyl-d14	*106 %*	*38-135*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0056	0.00018	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0056	0.00093	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0056	0.00047	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,1-Dichloroethane	BRL	mg/kg dry	0.0056	0.00047	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,1-Dichloroethylene	BRL	mg/kg dry	0.0056	0.00034	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,1-Dichloropropylene	BRL	mg/kg dry	0.0056	0.00059	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0056	0.00041	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0056	0.00085	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0056	0.00033	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0056	0.0011	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,2-Dibromoethane	BRL	mg/kg dry	0.0056	0.00064	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0056	0.00025	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,2-Dichloroethane	BRL	mg/kg dry	0.0056	0.00090	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,2-Dichloropropane	BRL	mg/kg dry	0.0056	0.00035	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0056	0.00027	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0056	0.000077	1	*8260B	12/3/13 17:15	MSC	P3L0061

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Laboratory Report

12/11/2013

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-4B (2-4)
Prism Sample ID: 3120047-05
Prism Work Order: 3120047
Time Collected: 12/02/13 15:05
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	mg/kg dry	0.0056	0.00061	1	*8260B	12/3/13 17:15	MSC	P3L0061
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0056	0.00041	1	*8260B	12/3/13 17:15	MSC	P3L0061
2,2-Dichloropropane	BRL	mg/kg dry	0.0056	0.00035	1	*8260B	12/3/13 17:15	MSC	P3L0061
2-Chlorotoluene	BRL	mg/kg dry	0.0056	0.00034	1	*8260B	12/3/13 17:15	MSC	P3L0061
4-Chlorotoluene	BRL	mg/kg dry	0.0056	0.00026	1	*8260B	12/3/13 17:15	MSC	P3L0061
4-Isopropyltoluene	BRL	mg/kg dry	0.0056	0.00035	1	*8260B	12/3/13 17:15	MSC	P3L0061
Acetone	BRL	mg/kg dry	0.056	0.0030	1	*8260B	12/3/13 17:15	MSC	P3L0061
Benzene	BRL	mg/kg dry	0.0034	0.00034	1	*8260B	12/3/13 17:15	MSC	P3L0061
Bromobenzene	BRL	mg/kg dry	0.0056	0.00024	1	*8260B	12/3/13 17:15	MSC	P3L0061
Bromochloromethane	BRL	mg/kg dry	0.0056	0.00081	1	*8260B	12/3/13 17:15	MSC	P3L0061
Bromodichloromethane	BRL	mg/kg dry	0.0056	0.00026	1	*8260B	12/3/13 17:15	MSC	P3L0061
Bromoform	BRL	mg/kg dry	0.0056	0.00099	1	*8260B	12/3/13 17:15	MSC	P3L0061
Bromomethane	BRL	mg/kg dry	0.011	0.0016	1	*8260B	12/3/13 17:15	MSC	P3L0061
Carbon Tetrachloride	BRL	mg/kg dry	0.0056	0.00031	1	*8260B	12/3/13 17:15	MSC	P3L0061
Chlorobenzene	BRL	mg/kg dry	0.0056	0.00026	1	*8260B	12/3/13 17:15	MSC	P3L0061
Chloroethane	BRL	mg/kg dry	0.011	0.0043	1	*8260B	12/3/13 17:15	MSC	P3L0061
Chloroform	BRL	mg/kg dry	0.0056	0.00024	1	*8260B	12/3/13 17:15	MSC	P3L0061
Chloromethane	BRL	mg/kg dry	0.0056	0.0028	1	*8260B	12/3/13 17:15	MSC	P3L0061
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0056	0.00045	1	*8260B	12/3/13 17:15	MSC	P3L0061
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0056	0.00028	1	*8260B	12/3/13 17:15	MSC	P3L0061
Dibromochloromethane	BRL	mg/kg dry	0.0056	0.00038	1	*8260B	12/3/13 17:15	MSC	P3L0061
Dichlorodifluoromethane	BRL ICV	mg/kg dry	0.0056	0.00060	1	*8260B	12/3/13 17:15	MSC	P3L0061
Ethylbenzene	BRL	mg/kg dry	0.0056	0.00036	1	*8260B	12/3/13 17:15	MSC	P3L0061
Isopropyl Ether	BRL	mg/kg dry	0.0056	0.00024	1	*8260B	12/3/13 17:15	MSC	P3L0061
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0056	0.00028	1	*8260B	12/3/13 17:15	MSC	P3L0061
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00072	1	*8260B	12/3/13 17:15	MSC	P3L0061
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.056	0.0012	1	*8260B	12/3/13 17:15	MSC	P3L0061
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.0020	1	*8260B	12/3/13 17:15	MSC	P3L0061
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.056	0.0015	1	*8260B	12/3/13 17:15	MSC	P3L0061
Methylene Chloride	BRL	mg/kg dry	0.0056	0.00041	1	*8260B	12/3/13 17:15	MSC	P3L0061
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00043	1	*8260B	12/3/13 17:15	MSC	P3L0061
Naphthalene	BRL	mg/kg dry	0.011	0.00041	1	*8260B	12/3/13 17:15	MSC	P3L0061
n-Butylbenzene	BRL	mg/kg dry	0.0056	0.00025	1	*8260B	12/3/13 17:15	MSC	P3L0061
n-Propylbenzene	BRL	mg/kg dry	0.0056	0.00032	1	*8260B	12/3/13 17:15	MSC	P3L0061
o-Xylene	BRL	mg/kg dry	0.0056	0.00035	1	*8260B	12/3/13 17:15	MSC	P3L0061
sec-Butylbenzene	BRL	mg/kg dry	0.0056	0.00023	1	*8260B	12/3/13 17:15	MSC	P3L0061
Styrene	BRL	mg/kg dry	0.0056	0.00024	1	*8260B	12/3/13 17:15	MSC	P3L0061
tert-Butylbenzene	BRL	mg/kg dry	0.0056	0.00029	1	*8260B	12/3/13 17:15	MSC	P3L0061
Tetrachloroethylene	BRL	mg/kg dry	0.0056	0.00039	1	*8260B	12/3/13 17:15	MSC	P3L0061
Toluene	BRL	mg/kg dry	0.0056	0.00033	1	*8260B	12/3/13 17:15	MSC	P3L0061
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0056	0.00065	1	*8260B	12/3/13 17:15	MSC	P3L0061
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0056	0.00027	1	*8260B	12/3/13 17:15	MSC	P3L0061
Trichloroethylene	BRL	mg/kg dry	0.0056	0.00052	1	*8260B	12/3/13 17:15	MSC	P3L0061

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Laboratory Report

12/11/2013

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-4B (2-4)
Prism Sample ID: 3120047-05
Prism Work Order: 3120047
Time Collected: 12/02/13 15:05
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Trichlorofluoromethane	BRL	mg/kg dry	0.0056	0.00045	1	*8260B	12/3/13 17:15	MSC	P3L0061
Vinyl acetate	BRL	mg/kg dry	0.028	0.0016	1	*8260B	12/3/13 17:15	MSC	P3L0061
Vinyl chloride	BRL	mg/kg dry	0.0056	0.00073	1	*8260B	12/3/13 17:15	MSC	P3L0061
Xylenes, total	BRL	mg/kg dry	0.017	0.0010	1	*8260B	12/3/13 17:15	MSC	P3L0061

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*97 %*	*70-130*
Dibromofluoromethane	*100 %*	*84-123*
Toluene-d8	*95 %*	*76-129*

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-5 (6-8)
Prism Sample ID: 3120047-06
Prism Work Order: 3120047
Time Collected: 12/02/13 14:05
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**84.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/4/13 16:00**	**ANG**	**P3L0100**
Semivolatile Organic Compounds by GC/MS									
1-Methylnaphthalene	BRL	mg/kg dry	0.39	0.091	1	*8270D	12/4/13 18:42	KC	P3L0060
2-Methylnaphthalene	BRL	mg/kg dry	0.39	0.14	1	*8270D	12/4/13 18:42	KC	P3L0060
Acenaphthene	BRL	mg/kg dry	0.39	0.12	1	*8270D	12/4/13 18:42	KC	P3L0060
Acenaphthylene	BRL	mg/kg dry	0.39	0.12	1	*8270D	12/4/13 18:42	KC	P3L0060
Anthracene	BRL	mg/kg dry	0.39	0.077	1	*8270D	12/4/13 18:42	KC	P3L0060
Benzo(a)anthracene	BRL	mg/kg dry	0.39	0.080	1	*8270D	12/4/13 18:42	KC	P3L0060
Benzo(a)pyrene	BRL	mg/kg dry	0.39	0.073	1	*8270D	12/4/13 18:42	KC	P3L0060
Benzo(b)fluoranthene	BRL	mg/kg dry	0.39	0.054	1	*8270D	12/4/13 18:42	KC	P3L0060
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.39	0.12	1	*8270D	12/4/13 18:42	KC	P3L0060
Benzo(k)fluoranthene	BRL	mg/kg dry	0.39	0.11	1	*8270D	12/4/13 18:42	KC	P3L0060
Chrysene	BRL	mg/kg dry	0.39	0.087	1	*8270D	12/4/13 18:42	KC	P3L0060
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.39	0.13	1	*8270D	12/4/13 18:42	KC	P3L0060
Fluoranthene	BRL	mg/kg dry	0.39	0.082	1	*8270D	12/4/13 18:42	KC	P3L0060
Fluorene	BRL	mg/kg dry	0.39	0.091	1	*8270D	12/4/13 18:42	KC	P3L0060
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.39	0.10	1	*8270D	12/4/13 18:42	KC	P3L0060
Naphthalene	BRL	mg/kg dry	0.39	0.15	1	*8270D	12/4/13 18:42	KC	P3L0060
Phenanthrene	BRL	mg/kg dry	0.39	0.069	1	*8270D	12/4/13 18:42	KC	P3L0060
Pyrene	BRL	mg/kg dry	0.39	0.11	1	*8270D	12/4/13 18:42	KC	P3L0060

Surrogate	Recovery	Control Limits
2-Fluorobiphenyl	*95 %*	*47-130*
Nitrobenzene-d5	*91 %*	*45-121*
Terphenyl-d14	*104 %*	*38-135*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0045	0.00015	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0045	0.00075	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0045	0.00038	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,1-Dichloroethane	BRL	mg/kg dry	0.0045	0.00038	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,1-Dichloroethylene	BRL	mg/kg dry	0.0045	0.00028	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,1-Dichloropropylene	BRL	mg/kg dry	0.0045	0.00048	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0045	0.00034	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0045	0.00068	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0045	0.00027	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0045	0.00089	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,2-Dibromoethane	BRL	mg/kg dry	0.0045	0.00052	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0045	0.00020	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,2-Dichloroethane	BRL	mg/kg dry	0.0045	0.00073	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,2-Dichloropropane	BRL	mg/kg dry	0.0045	0.00029	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0045	0.00022	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0045	0.000063	1	*8260B	12/3/13 17:42	MSC	P3L0061

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-5 (6-8)
Prism Sample ID: 3120047-06
Prism Work Order: 3120047
Time Collected: 12/02/13 14:05
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	mg/kg dry	0.0045	0.00049	1	*8260B	12/3/13 17:42	MSC	P3L0061
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0045	0.00033	1	*8260B	12/3/13 17:42	MSC	P3L0061
2,2-Dichloropropane	BRL	mg/kg dry	0.0045	0.00029	1	*8260B	12/3/13 17:42	MSC	P3L0061
2-Chlorotoluene	BRL	mg/kg dry	0.0045	0.00028	1	*8260B	12/3/13 17:42	MSC	P3L0061
4-Chlorotoluene	BRL	mg/kg dry	0.0045	0.00021	1	*8260B	12/3/13 17:42	MSC	P3L0061
4-Isopropyltoluene	BRL	mg/kg dry	0.0045	0.00029	1	*8260B	12/3/13 17:42	MSC	P3L0061
Acetone	BRL	mg/kg dry	0.045	0.0024	1	*8260B	12/3/13 17:42	MSC	P3L0061
Benzene	BRL	mg/kg dry	0.0027	0.00027	1	*8260B	12/3/13 17:42	MSC	P3L0061
Bromobenzene	BRL	mg/kg dry	0.0045	0.00019	1	*8260B	12/3/13 17:42	MSC	P3L0061
Bromochloromethane	BRL	mg/kg dry	0.0045	0.00066	1	*8260B	12/3/13 17:42	MSC	P3L0061
Bromodichloromethane	BRL	mg/kg dry	0.0045	0.00021	1	*8260B	12/3/13 17:42	MSC	P3L0061
Bromoform	BRL	mg/kg dry	0.0045	0.00080	1	*8260B	12/3/13 17:42	MSC	P3L0061
Bromomethane	BRL	mg/kg dry	0.0091	0.0013	1	*8260B	12/3/13 17:42	MSC	P3L0061
Carbon Tetrachloride	BRL	mg/kg dry	0.0045	0.00025	1	*8260B	12/3/13 17:42	MSC	P3L0061
Chlorobenzene	BRL	mg/kg dry	0.0045	0.00021	1	*8260B	12/3/13 17:42	MSC	P3L0061
Chloroethane	BRL	mg/kg dry	0.0091	0.0034	1	*8260B	12/3/13 17:42	MSC	P3L0061
Chloroform	BRL	mg/kg dry	0.0045	0.00019	1	*8260B	12/3/13 17:42	MSC	P3L0061
Chloromethane	BRL	mg/kg dry	0.0045	0.0023	1	*8260B	12/3/13 17:42	MSC	P3L0061
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0045	0.00037	1	*8260B	12/3/13 17:42	MSC	P3L0061
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0045	0.00022	1	*8260B	12/3/13 17:42	MSC	P3L0061
Dibromochloromethane	BRL	mg/kg dry	0.0045	0.00031	1	*8260B	12/3/13 17:42	MSC	P3L0061
Dichlorodifluoromethane	BRL ICV	mg/kg dry	0.0045	0.00049	1	*8260B	12/3/13 17:42	MSC	P3L0061
Ethylbenzene	BRL	mg/kg dry	0.0045	0.00029	1	*8260B	12/3/13 17:42	MSC	P3L0061
Isopropyl Ether	BRL	mg/kg dry	0.0045	0.00019	1	*8260B	12/3/13 17:42	MSC	P3L0061
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0045	0.00023	1	*8260B	12/3/13 17:42	MSC	P3L0061
m,p-Xylenes	BRL	mg/kg dry	0.0091	0.00058	1	*8260B	12/3/13 17:42	MSC	P3L0061
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.045	0.00093	1	*8260B	12/3/13 17:42	MSC	P3L0061
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.091	0.0016	1	*8260B	12/3/13 17:42	MSC	P3L0061
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.045	0.0012	1	*8260B	12/3/13 17:42	MSC	P3L0061
Methylene Chloride	BRL	mg/kg dry	0.0045	0.00033	1	*8260B	12/3/13 17:42	MSC	P3L0061
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0091	0.00035	1	*8260B	12/3/13 17:42	MSC	P3L0061
Naphthalene	BRL	mg/kg dry	0.0091	0.00033	1	*8260B	12/3/13 17:42	MSC	P3L0061
n-Butylbenzene	BRL	mg/kg dry	0.0045	0.00020	1	*8260B	12/3/13 17:42	MSC	P3L0061
n-Propylbenzene	BRL	mg/kg dry	0.0045	0.00026	1	*8260B	12/3/13 17:42	MSC	P3L0061
o-Xylene	BRL	mg/kg dry	0.0045	0.00029	1	*8260B	12/3/13 17:42	MSC	P3L0061
sec-Butylbenzene	BRL	mg/kg dry	0.0045	0.00018	1	*8260B	12/3/13 17:42	MSC	P3L0061
Styrene	BRL	mg/kg dry	0.0045	0.00020	1	*8260B	12/3/13 17:42	MSC	P3L0061
tert-Butylbenzene	BRL	mg/kg dry	0.0045	0.00023	1	*8260B	12/3/13 17:42	MSC	P3L0061
Tetrachloroethylene	BRL	mg/kg dry	0.0045	0.00031	1	*8260B	12/3/13 17:42	MSC	P3L0061
Toluene	BRL	mg/kg dry	0.0045	0.00027	1	*8260B	12/3/13 17:42	MSC	P3L0061
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0045	0.00052	1	*8260B	12/3/13 17:42	MSC	P3L0061
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0045	0.00022	1	*8260B	12/3/13 17:42	MSC	P3L0061
Trichloroethylene	BRL	mg/kg dry	0.0045	0.00042	1	*8260B	12/3/13 17:42	MSC	P3L0061

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Solid

Client Sample ID: SB-5 (6-8)
Prism Sample ID: 3120047-06
Prism Work Order: 3120047
Time Collected: 12/02/13 14:05
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Trichlorofluoromethane	BRL	mg/kg dry	0.0045	0.00037	1	*8260B	12/3/13 17:42	MSC	P3L0061
Vinyl acetate	BRL	mg/kg dry	0.023	0.0013	1	*8260B	12/3/13 17:42	MSC	P3L0061
Vinyl chloride	BRL	mg/kg dry	0.0045	0.00059	1	*8260B	12/3/13 17:42	MSC	P3L0061
Xylenes, total	BRL	mg/kg dry	0.014	0.00085	1	*8260B	12/3/13 17:42	MSC	P3L0061

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*98 %*	*70-130*
Dibromofluoromethane	*103 %*	*84-123*
Toluene-d8	*97 %*	*76-129*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Water

Client Sample ID: TW-2/SB5
Prism Sample ID: 3120047-07
Prism Work Order: 3120047
Time Collected: 12/02/13 16:30
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1-Methylnaphthalene	BRL	ug/L	10	2.6	1	*8270D	12/9/13 17:23	KC	P3L0145
2-Methylnaphthalene	BRL	ug/L	10	2.7	1	*8270D	12/9/13 17:23	KC	P3L0145
Acenaphthene	BRL	ug/L	10	2.2	1	*8270D	12/9/13 17:23	KC	P3L0145
Acenaphthylene	BRL	ug/L	10	2.3	1	*8270D	12/9/13 17:23	KC	P3L0145
Anthracene	BRL	ug/L	10	1.3	1	*8270D	12/9/13 17:23	KC	P3L0145
Benzo(a)anthracene	BRL	ug/L	10	0.97	1	*8270D	12/9/13 17:23	KC	P3L0145
Benzo(a)pyrene	BRL	ug/L	10	1.1	1	*8270D	12/9/13 17:23	KC	P3L0145
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	*8270D	12/9/13 17:23	KC	P3L0145
Benzo(g,h,i)perylene	BRL	ug/L	10	2.2	1	*8270D	12/9/13 17:23	KC	P3L0145
Benzo(k)fluoranthene	BRL	ug/L	10	1.1	1	*8270D	12/9/13 17:23	KC	P3L0145
Chrysene	BRL	ug/L	10	1.2	1	*8270D	12/9/13 17:23	KC	P3L0145
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.8	1	*8270D	12/9/13 17:23	KC	P3L0145
Fluoranthene	BRL	ug/L	10	0.96	1	*8270D	12/9/13 17:23	KC	P3L0145
Fluorene	BRL	ug/L	10	1.9	1	*8270D	12/9/13 17:23	KC	P3L0145
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	1.6	1	*8270D	12/9/13 17:23	KC	P3L0145
Naphthalene	BRL	ug/L	10	2.3	1	*8270D	12/9/13 17:23	KC	P3L0145
Phenanthrene	BRL	ug/L	10	1.2	1	*8270D	12/9/13 17:23	KC	P3L0145
Pyrene	BRL	ug/L	10	1.4	1	*8270D	12/9/13 17:23	KC	P3L0145

Surrogate	Recovery	Control Limits	
2-Fluorobiphenyl	*97 %*	*55-96*	*SR*
Nitrobenzene-d5	*91 %*	*53-99*	
Terphenyl-d14	*99 %*	*42-133*	

Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachlorcethane	BRL	ug/L	0.50	0.15	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,1,2,2-Tetrachlorcethane	BRL	ug/L	0.50	0.071	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	12/3/13 23:42	VHL	P3L0089
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	12/3/13 23:42	VHL	P3L0089

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Water

Client Sample ID: TW-2/SB5
Prism Sample ID: 3120047-07
Prism Work Order: 3120047
Time Collected: 12/02/13 16:30
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	12/3/13 23:42	VHL	P3L0089
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	12/3/13 23:42	VHL	P3L0089
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	*8260B	12/3/13 23:42	VHL	P3L0089
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	12/3/13 23:42	VHL	P3L0089
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	12/3/13 23:42	VHL	P3L0089
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	12/3/13 23:42	VHL	P3L0089
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	12/3/13 23:42	VHL	P3L0089
Acrolein	BRL	ug/L	20	1.1	1	*8260B	12/3/13 23:42	VHL	P3L0089
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	12/3/13 23:42	VHL	P3L0089
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	12/3/13 23:42	VHL	P3L0089
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	12/3/13 23:42	VHL	P3L0089
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	12/3/13 23:42	VHL	P3L0089
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	12/3/13 23:42	VHL	P3L0089
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	12/3/13 23:42	VHL	P3L0089
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	12/3/13 23:42	VHL	P3L0089
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	12/3/13 23:42	VHL	P3L0089
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	12/3/13 23:42	VHL	P3L0089
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	12/3/13 23:42	VHL	P3L0089
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	12/3/13 23:42	VHL	P3L0089
Chloroform	BRL	ug/L	0.50	0.089	1	*8260B	12/3/13 23:42	VHL	P3L0089
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	12/3/13 23:42	VHL	P3L0089
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	*8260B	12/3/13 23:42	VHL	P3L0089
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	12/3/13 23:42	VHL	P3L0089
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	12/3/13 23:42	VHL	P3L0089
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	12/3/13 23:42	VHL	P3L0089
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	12/3/13 23:42	VHL	P3L0089
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	12/3/13 23:42	VHL	P3L0089
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	12/3/13 23:42	VHL	P3L0089
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	12/3/13 23:42	VHL	P3L0089
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	12/3/13 23:42	VHL	P3L0089
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	12/3/13 23:42	VHL	P3L0089
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	12/3/13 23:42	VHL	P3L0089
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	12/3/13 23:42	VHL	P3L0089
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	12/3/13 23:42	VHL	P3L0089
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	12/3/13 23:42	VHL	P3L0089
Methyl-tert-Butyl Ether	**22**	**ug/L**	**0.50**	**0.070**	**1**	***8260B**	**12/3/13 23:42**	**VHL**	**P3L0089**
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	12/3/13 23:42	VHL	P3L0089
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	12/3/13 23:42	VHL	P3L0089
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	12/3/13 23:42	VHL	P3L0089
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	12/3/13 23:42	VHL	P3L0089
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	12/3/13 23:42	VHL	P3L0089
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	12/3/13 23:42	VHL	P3L0089
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	12/3/13 23:42	VHL	P3L0089

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Laboratory Report

12/11/2013

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Sample Matrix: Water

Client Sample ID: TW-2/SB5
Prism Sample ID: 3120047-07
Prism Work Order: 3120047
Time Collected: 12/02/13 16:30
Time Submitted: 12/03/13 09:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	12/3/13 23:42	VHL	P3L0089
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	12/3/13 23:42	VHL	P3L0089
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	*8260B	12/3/13 23:42	VHL	P3L0089
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	12/3/13 23:42	VHL	P3L0089
Trichloroethylene	BRL	ug/L	0.50	0.054	1	*8260B	12/3/13 23:42	VHL	P3L0089
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	12/3/13 23:42	VHL	P3L0089
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	12/3/13 23:42	VHL	P3L0089
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	12/3/13 23:42	VHL	P3L0089
Xylenes, total	BRL	ug/L	3.0	0.13	1	*8260B	12/3/13 23:42	VHL	P3L0089

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*110 %*	*80-124*
Dibromofluoromethane	*111 %*	*75-129*
Toluene-d8	*115 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Prism Work Order: 3120047
Time Submitted: 12/3/2013 9:55:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L0061 - 5035										
Blank (P3L0061-BLK1)				Prepared & Analyzed: 12/03/13						
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							ICV
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L0061 - 5035										
Blank (P3L0061-BLK1)				Prepared & Analyzed: 12/03/13						
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0493*		*mg/kg wet*	*0.05000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0478*		*mg/kg wet*	*0.05000*		*96*	*84-123*			
Surrogate: Toluene-d8	*0.0480*		*mg/kg wet*	*0.05000*		*96*	*76-129*			
LCS (P3L0061-BS1)				Prepared & Analyzed: 12/03/13						
1,1-Dichloroethylene	0.0604	0.0050	mg/kg wet	0.05000		121	67-149			
Benzene	0.0529	0.0030	mg/kg wet	0.05000		106	74-127			
Chlorobenzene	0.0529	0.0050	mg/kg wet	0.05000		106	74-118			
Toluene	0.0556	0.0050	mg/kg wet	0.05000		111	71-129			
Trichloroethylene	0.0562	0.0050	mg/kg wet	0.05000		112	75-133			
Surrogate: 4-Bromofluorobenzene	*0.0505*		*mg/kg wet*	*0.05000*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0508*		*mg/kg wet*	*0.05000*		*102*	*84-123*			
Surrogate: Toluene-d8	*0.0494*		*mg/kg wet*	*0.05000*		*99*	*76-129*			

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Project: CHP-013

Prism Work Order: 3120047
Time Submitted: 12/3/2013 9:55:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L0061 - 5035										
LCS Dup (P3L0061-BSD1)				Prepared & Analyzed: 12/03/13						
1,1-Dichloroethylene	0.0520	0.0050	mg/kg wet	0.05000		104	67-149	15	20	
Benzene	0.0477	0.0030	mg/kg wet	0.05000		95	74-127	10	20	
Chlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	74-118	12	20	
Toluene	0.0493	0.0050	mg/kg wet	0.05000		99	71-129	12	20	
Trichloroethylene	0.0506	0.0050	mg/kg wet	0.05000		101	75-133	11	20	
Surrogate: 4-Bromofluorobenzene	*0.0498*		*mg/kg wet*	*0.05000*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0508*		*mg/kg wet*	*0.05000*		*102*	*84-123*			
Surrogate: Toluene-d8	*0.0483*		*mg/kg wet*	*0.05000*		*97*	*76-129*			
Batch P3L0089 - 5030B										
Blank (P3L0089-BLK1)				Prepared & Analyzed: 12/03/13						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Prism Work Order: 3120047
Time Submitted: 12/3/2013 9:55:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L0089 - 5030B										
Blank (P3L0089-BLK1)				Prepared & Analyzed: 12/03/13						
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*55.9*		*ug/L*	*50.00*		*112*	*80-124*			
Surrogate: Dibromofluoromethane	*57.3*		*ug/L*	*50.00*		*115*	*75-129*			
Surrogate: Toluene-d8	*59.2*		*ug/L*	*50.00*		*118*	*77-123*			

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L0089 - 5030B										
LCS (P3L0089-BS1)				Prepared & Analyzed: 12/03/13						
1,1-Dichloroethylene	23.2	0.50	ug/L	20.00		116	70-154			
Benzene	19.4	0.50	ug/L	20.00		97	77-128			
Chlorobenzene	19.8	0.50	ug/L	20.00		99	78-119			
Toluene	19.5	0.50	ug/L	20.00		98	76-131			
Trichloroethylene	19.0	0.50	ug/L	20.00		95	77-133			
Xylenes, total	62.9	3.0	ug/L	60.00		105	77-133			
Surrogate: 4-Bromofluorobenzene	*51.7*		*ug/L*	*50.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*55.0*		*ug/L*	*50.00*		*110*	*75-129*			
Surrogate: Toluene-d8	*55.3*		*ug/L*	*50.00*		*111*	*77-123*			
LCS Dup (P3L0089-BSD1)				Prepared & Analyzed: 12/03/13						
1,1-Dichloroethylene	17.4	0.50	ug/L	20.00		87	70-154	29	20	D
Benzene	18.8	0.50	ug/L	20.00		94	77-128	3	20	
Chlorobenzene	19.1	0.50	ug/L	20.00		96	78-119	3	20	
Toluene	18.8	0.50	ug/L	20.00		94	76-131	4	20	
Trichloroethylene	18.3	0.50	ug/L	20.00		92	77-133	4	20	
Xylenes, total	60.6	3.0	ug/L	60.00		101	77-133	4	20	
Surrogate: 4-Bromofluorobenzene	*51.7*		*ug/L*	*50.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*55.3*		*ug/L*	*50.00*		*111*	*75-129*			
Surrogate: Toluene-d8	*55.1*		*ug/L*	*50.00*		*110*	*77-123*			

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Project: CHP-013

Prism Work Order: 3120047
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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L0060 - 3550C MS										
Blank (P3L0060-BLK1)				Prepared: 12/03/13 Analyzed: 12/04/13						
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2-Fluorobiphenyl	*1.74*		*mg/kg wet*	*1.663*		*104*	*47-130*			
Surrogate: Nitrobenzene-d5	*1.51*		*mg/kg wet*	*1.663*		*91*	*45-121*			
Surrogate: Terphenyl-d14	*1.81*		*mg/kg wet*	*1.663*		*109*	*38-135*			
LCS (P3L0060-BS1)				Prepared: 12/03/13 Analyzed: 12/04/13						
1-Methylnaphthalene	1.67	0.33	mg/kg wet	1.663		100	35-102			
2-Methylnaphthalene	1.68	0.33	mg/kg wet	1.663		101	57-116			
Acenaphthene	1.75	0.33	mg/kg wet	1.663		105	62-118			
Acenaphthylene	1.77	0.33	mg/kg wet	1.663		106	64-116			
Anthracene	1.83	0.33	mg/kg wet	1.663		110	71-132			
Benzo(a)anthracene	1.87	0.33	mg/kg wet	1.663		112	71-129			
Benzo(a)pyrene	1.81	0.33	mg/kg wet	1.663		109	74-129			
Benzo(b)fluoranthene	1.75	0.33	mg/kg wet	1.663		105	63-138			
Benzo(g,h,i)perylene	1.79	0.33	mg/kg wet	1.663		108	41-154			
Benzo(k)fluoranthene	1.84	0.33	mg/kg wet	1.663		111	62-145			
Chrysene	1.90	0.33	mg/kg wet	1.663		115	72-129			
Dibenzo(a,h)anthracene	1.77	0.33	mg/kg wet	1.663		107	41-158			
Fluoranthene	1.85	0.33	mg/kg wet	1.663		111	64-136			
Fluorene	1.80	0.33	mg/kg wet	1.663		108	67-120			
Indeno(1,2,3-cd)pyrene	1.81	0.33	mg/kg wet	1.663		109	40-160			
Naphthalene	1.51	0.33	mg/kg wet	1.663		91	62-111			
Phenanthrene	1.82	0.33	mg/kg wet	1.663		109	72-123			
Pyrene	1.84	0.33	mg/kg wet	1.663		110	51-141			
Surrogate: 2-Fluorobiphenyl	*1.69*		*mg/kg wet*	*1.663*		*102*	*47-130*			
Surrogate: Nitrobenzene-d5	*1.49*		*mg/kg wet*	*1.663*		*90*	*45-121*			
Surrogate: Terphenyl-d14	*1.65*		*mg/kg wet*	*1.663*		*99*	*38-135*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L0060 - 3550C MS										
LCS Dup (P3L0060-BSD1)				Prepared: 12/03/13 Analyzed: 12/04/13						
1-Methylnaphthalene	1.69	0.33	mg/kg wet	1.664		101	35-102	1	20	
2-Methylnaphthalene	1.68	0.33	mg/kg wet	1.664		101	57-116	0.2	20	
Acenaphthene	1.82	0.33	mg/kg wet	1.664		109	62-118	4	20	
Acenaphthylene	1.80	0.33	mg/kg wet	1.664		108	64-116	2	20	
Anthracene	1.87	0.33	mg/kg wet	1.664		112	71-132	2	20	
Benzo(a)anthracene	1.92	0.33	mg/kg wet	1.664		115	71-129	2	20	
Benzo(a)pyrene	1.88	0.33	mg/kg wet	1.664		113	74-129	4	20	
Benzo(b)fluoranthene	1.83	0.33	mg/kg wet	1.664		110	63-138	4	20	
Benzo(g,h,i)perylene	1.79	0.33	mg/kg wet	1.664		107	41-154	0.4	20	
Benzo(k)fluoranthene	1.92	0.33	mg/kg wet	1.664		115	62-145	4	20	
Chrysene	1.94	0.33	mg/kg wet	1.664		117	72-129	2	20	
Dibenzo(a,h)anthracene	1.79	0.33	mg/kg wet	1.664		108	41-158	0.9	20	
Fluoranthene	1.89	0.33	mg/kg wet	1.664		114	64-136	2	20	
Fluorene	1.86	0.33	mg/kg wet	1.664		112	67-120	3	20	
Indeno(1,2,3-cd)pyrene	1.83	0.33	mg/kg wet	1.664		110	40-160	1	20	
Naphthalene	1.51	0.33	mg/kg wet	1.664		91	62-111	0.2	20	
Phenanthrene	1.85	0.33	mg/kg wet	1.664		111	72-123	2	20	
Pyrene	1.87	0.33	mg/kg wet	1.664		112	51-141	2	20	
Surrogate: 2-Fluorobiphenyl	*1.75*		*mg/kg wet*	*1.664*		*105*	*47-130*			
Surrogate: Nitrobenzene-d5	*1.47*		*mg/kg wet*	*1.664*		*88*	*45-121*			
Surrogate: Terphenyl-d14	*1.69*		*mg/kg wet*	*1.664*		*102*	*38-135*			
Matrix Spike (P3L0060-MS1)		**Source: 3120047-04**		Prepared: 12/03/13 Analyzed: 12/04/13						
1-Methylnaphthalene	1.82	0.36	mg/kg dry	1.817	BRL	100	26-113			
2-Methylnaphthalene	1.80	0.36	mg/kg dry	1.817	BRL	99	12-128			
Acenaphthene	1.99	0.36	mg/kg dry	1.817	BRL	109	46-115			
Acenaphthylene	1.97	0.36	mg/kg dry	1.817	BRL	108	40-125			
Anthracene	2.03	0.36	mg/kg dry	1.817	BRL	112	56-127			
Benzo(a)anthracene	2.09	0.36	mg/kg dry	1.817	BRL	115	50-134			
Benzo(a)pyrene	2.03	0.36	mg/kg dry	1.817	BRL	112	59-129			
Benzo(b)fluoranthene	1.98	0.36	mg/kg dry	1.817	BRL	109	46-141			
Benzo(g,h,i)perylene	2.01	0.36	mg/kg dry	1.817	BRL	111	47-136			
Benzo(k)fluoranthene	2.06	0.36	mg/kg dry	1.817	BRL	114	36-151			
Chrysene	2.12	0.36	mg/kg dry	1.817	BRL	117	46-140			
Dibenzo(a,h)anthracene	2.01	0.36	mg/kg dry	1.817	BRL	111	43-141			
Fluoranthene	2.03	0.36	mg/kg dry	1.817	BRL	112	37-140			
Fluorene	2.02	0.36	mg/kg dry	1.817	BRL	111	49-119			
Indeno(1,2,3-cd)pyrene	2.03	0.36	mg/kg dry	1.817	BRL	112	27-156			
Naphthalene	1.62	0.36	mg/kg dry	1.817	BRL	89	27-111			
Phenanthrene	2.01	0.36	mg/kg dry	1.817	BRL	111	48-137			
Pyrene	2.03	0.36	mg/kg dry	1.817	BRL	112	43-146			
Surrogate: 2-Fluorobiphenyl	*1.89*		*mg/kg dry*	*1.817*		*104*	*47-130*			
Surrogate: Nitrobenzene-d5	*1.64*		*mg/kg dry*	*1.817*		*90*	*45-121*			
Surrogate: Terphenyl-d14	*1.86*		*mg/kg dry*	*1.817*		*103*	*38-135*			

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Prism Work Order: 3120047
Time Submitted: 12/3/2013 9:55:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L0060 - 3550C MS										
Matrix Spike Dup (P3L0060-MSD1)	**Source: 3120047-04**			Prepared: 12/03/13 Analyzed: 12/04/13						
1-Methylnaphthalene	1.69	0.36	mg/kg dry	1.818	BRL	93	26-113	8	38	
2-Methylnaphthalene	1.66	0.36	mg/kg dry	1.818	BRL	91	12-128	8	48	
Acenaphthene	1.98	0.36	mg/kg dry	1.818	BRL	109	46-115	0.4	35	
Acenaphthylene	1.95	0.36	mg/kg dry	1.818	BRL	107	40-125	1	35	
Anthracene	1.98	0.36	mg/kg dry	1.818	BRL	109	56-127	3	26	
Benzo(a)anthracene	2.03	0.36	mg/kg dry	1.818	BRL	112	50-134	3	25	
Benzo(a)pyrene	1.98	0.36	mg/kg dry	1.818	BRL	109	59-129	3	22	
Benzo(b)fluoranthene	1.92	0.36	mg/kg dry	1.818	BRL	106	46-141	3	33	
Benzo(g,h,i)perylene	1.98	0.36	mg/kg dry	1.818	BRL	109	47-136	2	26	
Benzo(k)fluoranthene	2.03	0.36	mg/kg dry	1.818	BRL	112	36-151	2	38	
Chrysene	2.07	0.36	mg/kg dry	1.818	BRL	114	46-140	3	32	
Dibenzo(a,h)anthracene	1.98	0.36	mg/kg dry	1.818	BRL	109	43-141	1	25	
Fluoranthene	2.00	0.36	mg/kg dry	1.818	BRL	110	37-140	1	35	
Fluorene	2.03	0.36	mg/kg dry	1.818	BRL	111	49-119	0.1	31	
Indeno(1,2,3-cd)pyrene	1.98	0.36	mg/kg dry	1.818	BRL	109	27-156	3	35	
Naphthalene	1.29	0.36	mg/kg dry	1.818	BRL	71	27-111	22	51	
Phenanthrene	1.99	0.36	mg/kg dry	1.818	BRL	109	48-137	1	32	
Pyrene	1.97	0.36	mg/kg dry	1.818	BRL	109	43-146	3	31	
Surrogate: 2-Fluorobiphenyl	*1.84*		*mg/kg dry*	*1.818*		*101*	*47-130*			
Surrogate: Nitrobenzene-d5	*1.21*		*mg/kg dry*	*1.818*		*67*	*45-121*			
Surrogate: Terphenyl-d14	*1.81*		*mg/kg dry*	*1.818*		*99*	*38-135*			
Batch P3L0145 - 3510C MS										
Blank (P3L0145-BLK1)				Prepared: 12/06/13 Analyzed: 12/09/13						
1-Methylnaphthalene	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Surrogate: 2-Fluorobiphenyl	*52.8*		*ug/L*	*50.00*		*106*	*55-96*			*SR*
Surrogate: Nitrobenzene-d5	*52.2*		*ug/L*	*50.00*		*104*	*53-99*			*SR*
Surrogate: Terphenyl-d14	*53.5*		*ug/L*	*50.00*		*107*	*42-133*			

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Prism Work Order: 3120047
Time Submitted: 12/3/2013 9:55:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L0145 - 3510C MS										
LCS (P3L0145-BS1)				Prepared: 12/06/13 Analyzed: 12/09/13						
1-Methylnaphthalene	49.3	10	ug/L	50.00		99	45-135			
2-Methylnaphthalene	49.2	10	ug/L	50.00		98	55-112			
Acenaphthene	53.5	10	ug/L	50.00		107	64-118			
Acenaphthylene	53.8	10	ug/L	50.00		108	65-119			
Anthracene	51.7	10	ug/L	50.00		103	69-134			
Benzo(a)anthracene	55.8	10	ug/L	50.00		112	71-125			
Benzo(a)pyrene	67.7	10	ug/L	50.00		135	67-135			
Benzo(b)fluoranthene	65.3	10	ug/L	50.00		131	56-145			
Benzo(g,h,i)perylene	65.7	10	ug/L	50.00		131	44-149			
Benzo(k)fluoranthene	65.9	10	ug/L	50.00		132	65-138			
Chrysene	56.2	10	ug/L	50.00		112	64-124			
Dibenzo(a,h)anthracene	65.5	10	ug/L	50.00		131	49-144			
Fluoranthene	55.2	10	ug/L	50.00		110	66-135			
Fluorene	54.9	10	ug/L	50.00		110	67-124			
Indeno(1,2,3-cd)pyrene	66.1	10	ug/L	50.00		132	40-150			
Naphthalene	44.6	10	ug/L	50.00		89	54-111			
Phenanthrene	53.4	10	ug/L	50.00		107	68-128			
Pyrene	54.8	10	ug/L	50.00		110	62-139			
Surrogate: 2-Fluorobiphenyl	*52.2*		*ug/L*	*50.00*		*104*	*55-96*			*SR*
Surrogate: Nitrobenzene-d5	*45.8*		*ug/L*	*50.00*		*92*	*53-99*			
Surrogate: Terphenyl-d14	*51.4*		*ug/L*	*50.00*		*103*	*42-133*			
LCS Dup (P3L0145-BSD1)				Prepared: 12/06/13 Analyzed: 12/09/13						
1-Methylnaphthalene	49.1	10	ug/L	50.00		98	45-135	0.4	20	
2-Methylnaphthalene	49.1	10	ug/L	50.00		98	55-112	0.1	20	
Acenaphthene	53.2	10	ug/L	50.00		106	64-118	0.5	20	
Acenaphthylene	53.3	10	ug/L	50.00		107	65-119	0.9	20	
Anthracene	51.2	10	ug/L	50.00		102	69-134	1	20	
Benzo(a)anthracene	55.5	10	ug/L	50.00		111	71-125	0.5	20	
Benzo(a)pyrene	65.4	10	ug/L	50.00		131	67-135	3	20	
Benzo(b)fluoranthene	63.7	10	ug/L	50.00		127	56-145	2	20	
Benzo(g,h,i)perylene	63.6	10	ug/L	50.00		127	44-149	3	20	
Benzo(k)fluoranthene	64.2	10	ug/L	50.00		128	65-138	3	20	
Chrysene	56.1	10	ug/L	50.00		112	64-124	0.1	20	
Dibenzo(a,h)anthracene	64.3	10	ug/L	50.00		129	49-144	2	20	
Fluoranthene	54.4	10	ug/L	50.00		109	66-135	1	20	
Fluorene	54.7	10	ug/L	50.00		109	67-124	0.5	20	
Indeno(1,2,3-cd)pyrene	64.5	10	ug/L	50.00		129	40-150	3	20	
Naphthalene	44.2	10	ug/L	50.00		88	54-111	1	20	
Phenanthrene	53.6	10	ug/L	50.00		107	68-128	0.5	20	
Pyrene	54.0	10	ug/L	50.00		108	62-139	1	20	
Surrogate: 2-Fluorobiphenyl	*49.7*		*ug/L*	*50.00*		*99*	*55-96*			*SR*
Surrogate: Nitrobenzene-d5	*44.2*		*ug/L*	*50.00*		*88*	*53-99*			
Surrogate: Terphenyl-d14	*48.6*		*ug/L*	*50.00*		*97*	*42-133*			

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Prism Work Order: 3120047
Time Submitted: 12/3/2013 9:55:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L0145 - 3510C MS										
Matrix Spike (P3L0145-MS1)	**Source: 3120047-07**			Prepared: 12/06/13	Analyzed: 12/09/13					
1-Methylnaphthalene	102	20	ug/L	102.0	BRL	100	45-135			
2-Methylnaphthalene	102	20	ug/L	102.0	BRL	100	36-115			
Acenaphthene	108	20	ug/L	102.0	BRL	106	55-117			
Acenaphthylene	107	20	ug/L	102.0	BRL	105	52-121			
Anthracene	105	20	ug/L	102.0	BRL	103	60-136			
Benzo(a)anthracene	112	20	ug/L	102.0	BRL	109	64-135			
Benzo(a)pyrene	132	20	ug/L	102.0	BRL	130	68-136			
Benzo(b)fluoranthene	128	20	ug/L	102.0	BRL	125	61-149			
Benzo(g,h,i)perylene	131	20	ug/L	102.0	BRL	128	47-151			
Benzo(k)fluoranthene	129	20	ug/L	102.0	BRL	127	45-148			
Chrysene	113	20	ug/L	102.0	BRL	111	62-135			
Dibenzo(a,h)anthracene	131	20	ug/L	102.0	BRL	128	45-155			
Fluoranthene	112	20	ug/L	102.0	BRL	109	51-136			
Fluorene	111	20	ug/L	102.0	BRL	109	57-121			
Indeno(1,2,3-cd)pyrene	132	20	ug/L	102.0	BRL	130	14-177			
Naphthalene	91.0	20	ug/L	102.0	BRL	89	38-109			
Phenanthrene	109	20	ug/L	102.0	BRL	107	62-131			
Pyrene	106	20	ug/L	102.0	BRL	104	46-156			
Surrogate: 2-Fluorobiphenyl	*99.0*		*ug/L*	*102.0*		*97*	*55-96*			*SR*
Surrogate: Nitrobenzene-d5	*84.9*		*ug/L*	*102.0*		*83*	*53-99*			
Surrogate: Terphenyl-d14	*96.9*		*ug/L*	*102.0*		*95*	*42-133*			
Matrix Spike Dup (P3L0145-MSD1)	**Source: 3120047-07**			Prepared: 12/06/13	Analyzed: 12/09/13					
1-Methylnaphthalene	97.8	20	ug/L	102.0	BRL	96	45-135	5	50	
2-Methylnaphthalene	98.8	20	ug/L	102.0	BRL	97	36-115	3	33	
Acenaphthene	102	20	ug/L	102.0	BRL	100	55-117	6	33	
Acenaphthylene	103	20	ug/L	102.0	BRL	101	52-121	4	30	
Anthracene	99.8	20	ug/L	102.0	BRL	98	60-136	5	27	
Benzo(a)anthracene	107	20	ug/L	102.0	BRL	105	64-135	4	18	
Benzo(a)pyrene	126	20	ug/L	102.0	BRL	124	68-136	5	21	
Benzo(b)fluoranthene	123	20	ug/L	102.0	BRL	120	61-149	4	34	
Benzo(g,h,i)perylene	123	20	ug/L	102.0	BRL	121	47-151	6	27	
Benzo(k)fluoranthene	123	20	ug/L	102.0	BRL	121	45-148	5	39	
Chrysene	108	20	ug/L	102.0	BRL	106	62-135	5	22	
Dibenzo(a,h)anthracene	124	20	ug/L	102.0	BRL	121	45-155	6	28	
Fluoranthene	106	20	ug/L	102.0	BRL	104	51-136	5	26	
Fluorene	105	20	ug/L	102.0	BRL	103	57-121	6	30	
Indeno(1,2,3-cd)pyrene	125	20	ug/L	102.0	BRL	123	14-177	6	34	
Naphthalene	86.9	20	ug/L	102.0	BRL	85	38-109	5	35	
Phenanthrene	104	20	ug/L	102.0	BRL	102	62-131	5	23	
Pyrene	103	20	ug/L	102.0	BRL	101	46-156	3	31	
Surrogate: 2-Fluorobiphenyl	*98.4*		*ug/L*	*102.0*		*96*	*55-96*			
Surrogate: Nitrobenzene-d5	*85.7*		*ug/L*	*102.0*		*84*	*53-99*			
Surrogate: Terphenyl-d14	*95.6*		*ug/L*	*102.0*		*94*	*42-133*			

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Hart & Hickman (Charlotte)
Attn: Janine Turbe
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: CHP-013

Prism Work Order: 3120047
Time Submitted: 12/3/2013 9:55:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L0100 - NO PREP										
Blank (P3L0100-BLK1)				Prepared & Analyzed: 12/04/13						
% Solids	100	0.100	% by Weight							

Sample Extraction Data

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
3120047-03	P3L0145	720 mL	1 mL	12/06/13 13:00
3120047-07	P3L0145	980 mL	1 mL	12/06/13 13:00

Prep Method: 3550C MS

Lab Number	Batch	Initial	Final	Date/Time
3120047-01	P3L0060	30.04 g	1 mL	12/03/13 14:15
3120047-02	P3L0060	30 g	1 mL	12/03/13 14:15
3120047-04	P3L0060	30.02 g	1 mL	12/03/13 14:15
3120047-05	P3L0060	30.03 g	1 mL	12/03/13 14:15
3120047-06	P3L0060	30.02 g	1 mL	12/03/13 14:15

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
3120047-03	P3L0089	10 mL	10 mL	12/03/13 13:09
3120047-07	P3L0089	10 mL	10 mL	12/03/13 13:09

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
3120047-01	P3L0061	5 g	5 mL	12/03/13 9:20
3120047-02	P3L0061	4.9 g	5 mL	12/03/13 9:20
3120047-04	P3L0061	4.7 g	5 mL	12/03/13 9:20
3120047-05	P3L0061	5.72 g	5 mL	12/03/13 9:20
3120047-06	P3L0061	6.55 g	5 mL	12/03/13 9:20

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CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: CHP-013
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL (II) III IV) provisions and/or QC Requirements
Invoice To: Hart + Hickman
Address: _____

Client Company Name: Hart + Hickman
Report To/Contact Name: Janine Turbe
Reporting Address: 3923 S. Tryon St, Ste 100 Charlotte NC
Phone: _____ Fax (Yes) (No): _____
Email Address: jturbe@hartthickman.com
EDD Type: PDF ___ Excel ___ Other _____
Site Location Name: 2000 Statesville Ave
Site Location Physical Address: 2000 Statesville Ave Charlotte NC

Purchase Order No./Billing Reference _____
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☒ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☒ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR19 Observed: 4.9 °C / Corr: 5.1 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ DoD ___ FL ___ NC ___ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	*ANALYSIS REQUESTED VOCs (8260)	SVOCs (8270)					REMARKS	PRISM LAB ID NO.
SB2 (2'-4')	12/2/13	1120	Soil	C, G	3 / 1 / 1	VOA / 8oz jar / 16 oz jar	Sodium bisulfate / None / Sodium bisulfate methanol	✓	✓						Φ1
SB1 (2'-4')	12/2/13	1040	Soil	C, G	3 / 1 / 1	VOA / 8oz jar / 16 oz jar	Sodium bisulfate methanol	✓	✓						Φ2
~~SW4~~/SB1	12/2/13	1650	Water	A, G, C	2 / 2 / 1	VOA / VOA / liter	HCL / None / None	✓	✓					Limited water in well	Φ3
~~SB3~~ (2'-4')	12/2/13	1155	Soil	C, G	3 / 1 / 1	VOA / 8oz jar / 16 oz jar	Sodium bisulfate methanol	✓	✓						Φ4
SB4B (2-4)	12/2/13	1505	Soil	C, G	"	"	"	✓	✓						Φ5
SB5 (6-8)	12/2/13	1405	Soil	C, G	"	"	"	✓	✓						Φ6
TW-2/SB5	12/2/13	1630	Water	A, C, G	3 / 2 / 2	VOA / VOA / liter	HCL / None / None	✓	✓						Φ7

Sampler's Signature _____ Sampled By (Print Name) Janine Turbe Affiliation H+H

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
		12/3/13	0947
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
		12/3/13	0955

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other _____
*COC Group No. 312Φ47

Additional Comments: *PAHs Only by 8270

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL