Active Remediation Monitoring Report
Former Skippers Marina

1156 Perth Road
Troutman, North Carolina

H&H Job No. KID-024
June 13, 2014

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#C-1269 Engineering

#-245 Geology

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Via FedEx Overnight

June 13, 2014

North Carolina Department of Environment
and Natural Resources
610 East Center Avenue, Suite 301
Mooresville, NC 28115

Attn: Ms. Erin Fogarty

Re: Active Remediation Monitoring Report
Former Skipper's Marina (Inc. #22425)
Troutman, North Carolina
H&H Job No. KID-024

Dear Ms. Fogarty:

At the request of Mr. John Kindley, Hart & Hickman, PC (H&H) is providing the attached Active Remediation Monitoring Report for the above-referenced site. Please do not hesitate to call should you have any questions or need further information.

Sincerely,

Hart & Hickman, PC

Stephen R. Libbey, PG
Senior Project Geologist

Attachments

cc: Mr. John Kindley
Mr. Mark Lancaster

Title Page

Site Information:
Former Skippers Marina
1156 Perth Road
Troutman, North Carolina
Groundwater Incident No. 22425
Lat. N 35° 18' 54" Long. W 77° 47' 41"

Risk Classification:
High (water supply wells located within 1,000 ft of source area)

Land Use:
Subject property is commercial and used to fabricate docks and boat lifts. Surrounding properties are residential and site is bordered by Lake Norman.

Property Owner:
Marlan Properties Inc.
1156 Perth Road
Troutman, North Carolina, 28166
(704) 528-7400

UST Operator:
Mr. John Kindley
114 Morlake Drive, Suite 102
Mooresville, North Carolina 28117
(704) 799-9202

Consultant:
Hart & Hickman, PC
2923 South Tryon Street, Suite 100
Charlotte, NC 28203
(704) 586-0007

Release Information:
Date of Release Discovery = January 2001
Quantity of Release = Unknown
Source of Release = UST and/or Associated Piping
Material Released = Unleaded Gasoline

Laboratory: Pace Analytical Services, Inc., NC Certification No. 12

I, Stephen Libbey, a Senior Project Geologist for Hart & Hickman, PC, do hereby certify that the information contained in this report is correct and accurate to the best of my knowledge.

NORTH CAROLINA LICENSED SEAL 1658 GEOLOGIST STEPHEN RICHARD LIBBEY

Hart & Hickman, PC is licensed to practice geology and engineering in North Carolina. The certification numbers are C-245 and C-1269, respectively.

Active Remediation Monitoring Report
Former Skippers Marina
Troutman, North Carolina

H&H Job No. KID-024

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Active Remediation Monitoring Report
Former Skippers Marina
Troutman, North Carolina

H&H Job No. KID-024

1.0 Introduction

On behalf of Mr. John Kindley, Hart & Hickman, P.C. (H&H) has prepared this Active Remediation Monitoring Report for the former Skippers Marina located at 1156 Perth Road in Troutman, Iredell County, North Carolina. A site location map and a site plan are included as Figures 1 and 2, respectively. Lancaster Custom Dock and Lift Systems, Inc. currently occupy the property. The North Carolina Department of Environment and Natural Resources (DENR) incident number for the site is 22425, and DENR has assigned the site a high-risk classification due to the presence of nearby water supply wells. This report documents the results of groundwater and water supply well sampling performed by H&H in May 2014 and operation and maintenance (O&M) activities for the period of December 2013 through May 2014.

2.0 Site History

A 5,000-gallon kerosene underground storage tank (UST), four gasoline UST's ranging in size from 5,000 to 10,000 gallons, and associated piping/dispensers were removed in January 2001. An initial assessment was conducted and 269 cubic yards of petroleum-impacted soil were removed from the former UST area. No free product was encountered during UST removal.

Others submitted a Corrective Action Plan (CAP) to DENR in July 2002, which recommended soil and groundwater remediation using an air sparge/soil vapor extraction (AS/SVE) system. Due to Trust Fund prioritization, the remediation system installation was delayed.

DENR issued a letter to Mr. John Kindley dated August 20, 2008 requesting site remediation. In response to the DENR letter, H&H provided a letter dated October 6, 2008 modifying the proposed AS/SVE system layout by taking into consideration recent groundwater analytical results. The proposed AS/SVE system was designed and bid specifications were issued December 15, 2008. Trust Fund pre-approval for the proposed AS/SVE system was obtained.

The AS/SVE system was installed during March and April 2009 with SVE system start-up on April 27, 2009. The AS system start-up occurred on May 4, 2009. The remediation system is comprised of ten SVE wells; seven AS wells; and associated piping, remediation system building and equipment. The SVE system utilizes a Rotron regenerative blower while the sparge air is supplied by a Gardner Denver Endurair air compressor.

3.0 Summary of Potential Receptor Information

3.1 Water Supply Wells

H&H conducted an updated water supply well survey in July 2009 for the area within a 1,500-foot radius of the source area at the request of DENR. The survey was conducted by performing area reconnaissance and checking for municipal water connections. The results of the survey indicate that municipal water is not provided to the site and is not available to properties within a 1,500-foot radius of the site.

A total of 13 water supply wells were located within 1,000 ft of the source area. An additional 32 potential water supply wells were observed on properties located between approximately 1,000 and 1,500 ft of the source area with one previously identified supply well no longer in use. The on-site supply well WSW-12 is in use, but it is not used for drinking water according to the site owner and occupant Mr. Mark Lancaster. According to Mr. Lancaster, the well is only used for flushing toilets and bottled water is utilized for drinking water.

H&H sampled WSW-12 for volatile organic compounds (VOCs) using Standard Method 6200B on May 15, 2014. No compounds were detected in WSW-12 above the laboratory detection limits.

The water supply well owner information and well location map are included in Figure 3 and Appendix A. Water supply well analytical results are provided in Appendix B.

3.2 Surface Water

The nearest surface water body is Lake Norman which is located approximately 100 ft to the south of the source area (Figure 2). There are monitoring wells without detectable impacts between the lake and the petroleum groundwater plume. In addition, active remediation should prevent groundwater impacts from significantly affecting Lake Norman.

4.0 Groundwater Sampling

4.1 Water Levels

On May 15, 2014, H&H gauged water levels in the site monitoring wells (Table 1). No free product was detected in any of the site monitoring wells. The estimated water table elevations in May 2014 are depicted in Figure 4. The estimated water table surface based on May 2014 groundwater elevations indicate the groundwater flow direction in the vicinity of the former UST source area is to the east.

4.2 Monitoring Well Analytical Data

At the request of DENR, only site monitoring wells MW-1, MW-2, MW-5B, MW-8, and MW-11 were sampled in May 2014. Prior to sampling, dissolved oxygen readings were obtained, then the monitor wells were purged until pH, temperature, and conductivity stabilized. Groundwater samples were then collected using dedicated polyethylene bailers, poured in laboratory supplied containers, marked with identifying labels, and placed in an iced cooler for shipment under chain-of-custody to a certified laboratory for analysis. Groundwater samples were analyzed for VOCs by Standard Method 6200B (Table 2).

Petroleum-related impacts were detected above groundwater standards in monitoring wells MW-8 and MW-11. Petroleum impacted groundwater extends from the former UST basin primarily to the east. The highest concentrations were detected in monitoring well MW-8, which is located downgradient of the source area. Methyl tertiary butyl ether (MTBE) was detected in MW-8 at a concentration of 211 µg/l which exceeds the groundwater standard of 20 µg/l.

Isoconcentration maps of BTEX and MTBE in shallow groundwater wells are included as Figures 5 and 6, respectively. Apart from MTBE, the plume maps indicate that impacted groundwater is generally limited to the area within the subject site property boundaries.

Groundwater sampling results are summarized in Table 2, and historical groundwater sampling results obtained by others are provided in Appendix C.

Based on the recent groundwater data, a separate plume, unrelated to the former Skippers Marina plume, has been detected within the monitoring well network. Benzene and 1,2-dichoroethane (1,2-DCA) have been detected in off-site well MW-11 above groundwater standards. During the May 2014 sampling event, benzene (364 µg/l) and 1,2-DCA (76.1 µg/l) were detected above groundwater standards.

As discussed in past reports, there is a row of monitoring wells (MW-8 to MW-10) with no current benzene or 1,2-DCA concentrations between the Skippers site plume and MW-11. 1,2-DCA is associated with older leaded gasoline, and no 1,2-DCA has been detected on the Skipper's site. The release being addressed at the Skipper's site appears to be from a relatively newer gasoline with MTBE detected in source area monitoring wells at the former Skippers. No MTBE has been detected in off-site well MW-11. H&H will continue to monitor benzene and 1,2-DCA concentrations in MW-11 in the future.

Site monitoring wells were also gauged for dissolved oxygen and other geochemical parameters during the May 2014 sampling event. The geochemical results are provided in Table 3. Dissolved oxygen levels outside the source area ranged from 0.72 mg/l (MW-9) to 6.69 mg/l (MW-1). Monitoring wells located within the remediation area ranged from 5.16 mg/l (MW-3) to 6.69 mg/l (MW-1).

4.3 Groundwater Concentration Trends

Comparing May 2014 groundwater sampling results to the April 2009 baseline sampling results, target compound concentrations have decreased in monitoring wells within the remediation area. Since system start-up, MW-1 total BTEX has decreased from 8,180 µg/l to 2.83 µg/l and MW-5B total BTEX concentrations have decreased from 5,698 µg/l to below the laboratory detection limits.

5.0 Remediation System Installation and Startup

The SVE/AS remediation system was installed during March and April 2009 with system start-up on April 27, 2009. The remediation system layout is provided in Figure 9. The SVE system consists of ten four-inch diameter SVE wells (SVE-1 through SVE-10). SVE-1 was previously installed to a depth of 8 ft with a 6 ft section of well screen. The other SVE wells were installed to a depth of 9 ft with a 5 ft section of 0.010 slot screen. The SVE wells are divided into two "fields" to increase overall system effectiveness. Four SVE wells are tied into one field and are installed in the former tank basin, while six SVE wells are installed as a separate field. The vacuum to each of the two fields can be independently controlled, and airflow from each field is independently measured. The SVE system utilizes a Rotron 5.0 hp regenerative blower (Model EN 707) rated at 240 cubic feet per minute (cfm) of air at a vacuum of 30 inches of water.

The air sparge system consists of seven two-inch diameter air sparge wells (AS-1 through AS-7). AS-1 was previously installed to a depth of 25 ft with a 3 ft section of well screen. The other AS wells were installed to a depth of 30 ft with a 5 ft section of 0.010 well screen. The air sparge system utilizes a Gardner Denver 7.5 hp (Endurair) rotary screw compressor rated at 29 cfm at 100 pounds per square inch (psi). The AS wells are being run continuously, but they can be cycled for preset lengths of time in the future if desired.

H&H monitors the performance of the SVE/AS system by conducting monthly O&M visits. The SVE system operation status, number of hours of operation, inlet vacuum, air flow, and air discharge organic vapor analyzer readings are recorded (Table 4). In addition, the AS system operation status, number of hours of operation, compressor pressure, air flow to each well, and air pressure to each well are recorded (Table 5). An O&M log sheet is completed during each site visit and kept in a bound folder.

An air sample was collected from the SVE system off-gas on May 15, 2014 to help gauge the system effectiveness (Appendix B). SVE System off-gas concentrations and mass removal rates are presented in Tables 6 and 7. Since system start-up on April 27, 2009, the cumulative total recoverable petroleum hydrocarbons removed is 2,642 lbs. Based on the data and information collected, the AS/SVE remedial system appears to be operating as designed.

6.0 Conclusions and Recommendations

The former Skippers Marina facility site is a high-risk site due to the existence of an on-site water supply and additional water supply wells within 1,000 ft of the source area. DENR issued a letter to Mr. John Kindley dated August 20, 2008 requesting site remediation. In response to the DENR letter, H&H provided a letter dated October 6, 2008 modifying the originally proposed AS/SVE system layout by taking into consideration recent groundwater results. The proposed AS/SVE system was designed and bid specifications were issued December 15, 2008. Trust Fund pre-approval for the proposed AS/SVE system was obtained.

The AS/SVE system was installed during March and April 2009 with SVE system start-up on April 27, 2009. The AS system start-up occurred on May 4, 2009. The remediation system is comprised of ten SVE wells, seven AS wells, associated piping, remediation system building, and equipment. Based on recent system data and information collected, the AS/SVE remedial system appears to be operating as designed.

Site monitoring wells and the site water supply well were sampled in May 2014. Petroleum impacted groundwater extends from the former UST basin primarily to the east. Petroleum-related impacts were detected above groundwater standards in two monitoring wells. The highest concentrations were detected in monitoring well MW-8, which is located downgradient of the source area. No compounds were detected in the site water supply well above the laboratory detection limits.

Based on historical groundwater data, a separate plume, unrelated to the Skipper's plume, has been detected within the monitoring well network. Benzene and 1,2-DCA were detected in off-site well MW-11 above groundwater standards. 1,2-DCA is associated with older leaded gasoline, and 1,2-DCA has not been detected on the Skipper's site or recently in a row of monitoring wells located between the Skipper's site plume and MW-11. The release being addressed at the Skipper's site appears to be from a relatively newer gasoline with MTBE detected in source area monitoring wells at the former Skippers Marina. No MTBE has been

detected in off-site well MW-11. H&H will continue to monitor groundwater impacts in MW-11 during future sampling events.

Based on the results of the recent groundwater sampling event, H&H recommends continued operation of the AS/SVE remediation system. Additionally, H&H recommends conducting groundwater sampling on a semi-annual basis. With Trust Fund pre-approval, the next groundwater and remediation system off-gas sampling event will be conducted in October 2014 with an Active Remediation Monitoring Report to be submitted in November 2014.

Table 1
Monitoring Well Summary
Former Skippers Marina
Troutman, North Carolina
H&H Job No. KID-020

					November 19, 2008		April 3, 2009		July 27, 2009		October 26, 2009		April 27, 2010		September 9, 2010	
Monitoring Well Identification	Well TOC Elevation (ft)	Total Depth (ft)	Well Diameter (in)	Screen Length (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)
MW-1	100.00	18.0	2.0	15	9.13	90.87	8.41	91.59	9.42	90.58	9.39	90.61	8.17	91.83	9.79	90.21
MW-2	101.83	20.0	2.0	15	10.93	90.90	10.22	91.61	10.74	91.09	11.09	90.74	9.93	91.90	11.48	90.35
MW-3	98.32	18.0	2.0	15	7.46	90.86	6.69	91.63	7.65	90.67	7.81	90.51	6.75	91.57	8.10	90.22
MW-5B	98.88	16.0	2.0	10	8.02	90.86	7.26	91.62	8.23	90.65	8.32	90.56	7.28	91.60	8.70	90.18
MW-6B	92.64	11.5	2.0	10	1.88	90.76	0.92	91.72	1.86	90.78	1.24	91.40	1.40	91.24	2.43	90.21
MW-7	98.80	15.0	2.0	10	7.93	90.87	7.11	91.69	7.97	90.83	8.19	90.61	7.10	91.70	8.48	90.32
MW-8	99.15	18.0	2.0	15	8.35	90.80	7.59	91.56	8.53	90.62	8.71	90.44	7.64	91.51	9.14	90.01
MW-9	98.65	18.0	2.0	15	7.82	90.83	7.01	91.64	8.02	90.63	8.22	90.43	7.15	91.50	8.62	90.03
MW-10	99.94	20.0	2.0	15	9.13	90.81	8.35	91.59	9.10	90.84	9.31	90.63	8.22	91.72	9.83	90.11
MW-11	104.94	20.0	2.0	15	14.21	90.73	13.45	91.49	14.40	90.54	14.62	90.32	13.51	91.43	15.02	89.92
MW-12	101.38	18.0	2.0	15	10.68	90.70	9.86	91.52	10.92	90.46	11.06	90.32	10.00	91.38	11.47	89.91
MW-13	94.28	12.0	2.0	10	3.59	90.69	2.67	91.61	3.75	90.53	3.99	90.29	2.89	91.39	4.32	89.96
MW-14	103.40	15.5	2.0	10	12.69	90.71	11.84	91.56	12.82	90.58	13.12	90.28	11.97	91.43	13.41	89.99
MW-15B	100.98	20.0	2.0	15	10.06	90.92	9.31	91.67	9.80	91.18	10.19	90.79	9.11	91.87	10.47	90.51
TW-1	99.84	43.0	2.0	5	not gauged	not gauged	8.21	91.63	9.09	90.75	9.22	90.62	8.13	91.71	9.56	90.28

Notes:
5/21/08 - MW-5B was installed as a replacement for MW-5; MW-6B was installed as a replacement for MW-4 and MW-6; MW-15B was installed as a replacement for MW-15
TOC = Top of casing; NM = Not measured; NA = Not available
TOC based on arbitrary benchmark of MW-1 at 100-feet
TOC elevations revised by H&H using surveying techniques on July 27, 2009
[1] = Depth to water measurements for MW-1 and TW-1 collected on March 9, 2011

Table 1
Monitoring Well Summary
Former Skippers Marina
Troutman, North Carolina
H&H Job No. KID-020

					March 4, 2011[1]		October 6, 2011		May 14, 2012		November 13, 2012		May 1, 2013		October 16, 2013		May 15, 2014	
Monitoring Well Identification	Well TOC Elevation (ft)	Total Depth (ft)	Well Diameter (in)	Screen Length (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)	TOC Water Table Depth (ft)	Water Table Elevation (ft)
MW-1	100.00	18.0	2.0	15	9.13	90.87	10.72	89.28	8.75	91.25	10.49	89.51	5.97	94.03	7.27	92.73	8.82	91.18
MW-2	101.83	20.0	2.0	15	11.39	90.44	12.70	89.13	11.03	90.80	12.38	89.45	9.39	92.44	10.35	91.48	10.02	91.81
MW-3	98.32	18.0	2.0	15	8.13	90.19	9.48	88.84	7.53	90.79	9.17	89.15	6.20	92.12	7.23	91.09	6.83	91.49
MW-5B	98.88	16.0	2.0	10	8.72	90.16	10.02	88.86	8.25	90.63	9.66	89.22	6.50	92.38	6.03	92.85	7.53	91.35
MW-6B	92.64	11.5	2.0	10	2.56	90.08	3.82	88.82	1.20	91.44	3.58	89.06	0.25	92.39	1.32	91.32	1.22	91.42
MW-7	98.80	15.0	2.0	10	8.53	90.27	9.86	88.94	7.95	90.85	9.58	89.22	6.23	92.57	6.97	91.83	N/A	N/A
MW-8	99.15	18.0	2.0	15	9.10	90.05	10.40	88.75	8.04	91.11	10.05	89.10	6.72	92.43	7.83	91.32	7.79	91.36
MW-9	98.65	18.0	2.0	15	8.58	90.07	9.90	88.75	8.59	90.06	9.57	89.08	6.14	92.51	7.34	91.31	7.25	91.40
MW-10	99.94	20.0	2.0	15	9.74	90.20	11.02	88.92	9.72	90.22	10.63	89.31	7.55	92.39	8.63	91.31	8.32	91.62
MW-11	104.94	20.0	2.0	15	14.97	89.97	16.34	88.60	13.98	90.96	15.97	88.97	12.51	92.43	13.73	91.21	13.73	91.21
MW-12	101.38	18.0	2.0	15	11.44	89.94	12.82	88.56	10.46	90.92	12.51	88.87	8.93	92.45	10.20	91.18	10.20	91.18
MW-13	94.28	12.0	2.0	10	4.32	89.96	5.73	88.55	3.30	90.98	5.46	88.82	1.78	92.50	3.11	91.17	3.06	91.22
MW-14	103.40	15.5	2.0	10	13.48	89.92	14.80	88.60	13.37	90.03	14.78	88.62	NM	NA	12.18	91.22	12.17	91.23
MW-15B	100.98	20.0	2.0	15	10.59	90.39	11.83	89.15	10.08	90.90	11.51	89.47	8.45	92.53	9.35	91.63	9.16	91.82
TW-1	99.84	43.0	2.0	5	8.85	90.99	10.90	88.94	9.12	90.72	10.58	89.26	7.36	92.48	7.49	92.35	8.27	91.57

Notes:
5/21/08 - MW-5B was installed as a replacement for MW-5; MW-6B was installed as a replacement for MW-4 and MW-6; MW-15B was installed as a replacement for MW-15
TOC = Top of casing; NM = Not measured; NA = Not available
TOC based on arbitrary benchmark of MW-1 at 100-feet
TOC elevations revised by H&H using surveying techniques on July 27, 2009
[1] = Depth to water measurements for MW-1 and TW-1 collected on March 9, 2011

Table 2
Groundwater Analytical Results
Former Skippers Marine
Troutman, North Carolina
H&H Job No. KID-024

		Method - 6200 B (µg/L)																				
Sample ID	Date	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbezene	Acetone	Benzene	Chloroform	Ethylbenzene	Isopropyl ether (IPE)	Isopropylbenzene	m,p, and o-Xylenes	p-Isopropyltoluene	Methyl Butyl Ketone*	MTBE	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene
NC 2L Standard		400	0.4	0.6	400	6,000	1	70	600	70	70	500	NS	NS	20	70	70	6	70	70	0.7	600
MW-1	4/3/2009	**700**	<0.5	<0.6	200	<10	**1,600**	<0.50	**1,200**	<0.50	39	**3,380**	<20	NA	<0.50	<1.0	**110**	**400**	<0.50	<20	<0.50	**2,000**
	7/27/2009	**650**	<5.0	<5.0	200	<100	**1,200**	<5.0	**650**	<5.0	28	**2,620**	<5.0	NA	<5.0	13	**86**	**190**	<5.0	6.7	<5.0	**2,200**
	10/26/2009	**450**	<5.0	<5.0	150	<100	**790**	<5.0	480	<5.0	19	**1,790**	<5.0	NA	<5.0	25	53	**210**	<5.0	7.1	<5.0	**2,100**
	1/25/2010	190	<5.0	<5.0	66	<100	**410**	<5.0	200	<5.0	8.6	**930**	<5.0	NA	<5.0	<10	23	**96**	<5.0	<5.0	<5.0	**790**
	4/27/2010	92	<0.50	<0.50	34	<10	**130**	<0.50	95	<0.50	4.2	470	0.55	20	<0.50	1.3	11	**47**	0.64	1.1	<0.50	320
	9/9/2010	256	<5.0	<5.0	57.5	NA	**590**	<5.0	384	<5.0	<5.0	**1,930**	NA	NA	<5.0	<5.0	<5.0	**180**	<5.0	<5.0	<5.0	**1,570**
	3/9/2011	60.2	<1.2	<1.2	20.3	NA	**127**	<1.2	63.7	<1.2	5.6	451	NA	NA	1.3	<1.2	5.7	**41.4**	<1.2	<1.2	<1.2	295
	10/6/2011	61.0	<0.50	<0.50	24.6	NA	**114**	<0.50	83.4	<0.50	3.58	401	0.680	NA	<0.50	3.00	7.65	**32.6**	0.620	<0.50	<0.50	464
	5/14/2012	<0.50	<0.50	<0.50	8.7	NA	0.95	<0.50	2.8	<0.50	<0.50	45.1	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	12.8
	11/13/2012	14.6	<0.50	<0.50	11.4	NA	<0.50	<0.50	3.13	<0.50	<1.0	17.4	<0.50	NA	<0.50	<0.50	1.47	<5.0	<0.50	<0.50	<0.50	3.99
	5/1/2013	20.1	<0.50	<0.50	11.1	NA	<0.50	<0.50	4.20	<0.50	1.5	43.8	<0.50	NA	<0.50	<0.50	1.3	5.2	<0.50	<0.50	<0.50	3.00
	10/17/2013	3.1	<0.50	<0.50	4.0	NA	0.65	<0.50	2.2	<0.50	<0.50	11.5	<0.50	NA	<0.50	<0.50	0.61	2.8	<0.50	<0.50	<0.50	2.5
	5/15/2014	0.8	<0.50	<0.50	<0.50	NA	0.53	<0.50	<0.50	<0.50	<0.50	2.3	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
MW-2	4/3/2009	23	<0.5	<0.5	<0.50	<10	0.7	3.3	<0.50	<0.50	6.2	12	<0.50	NA	1.4	1.8	0.85	**11**	8.3	<0.50	<0.50	<0.50
	7/27/2009	26	<0.5	<0.5	<0.50	<10	0.52	2.8	<0.50	<0.50	7.4	12	3.3	NA	0.89	1.8	1.2	**13**	9	<0.50	<0.50	<0.50
	10/26/2009	32	<0.5	<0.5	<0.50	<10	0.51	3.4	<0.50	<0.50	10	13	4.5	NA	0.67	2.8	1.4	**14**	14	<0.50	<0.50	<0.50
	1/25/2010	10	<0.5	<0.5	<0.50	<10	<0.50	1.9	<0.50	<0.50	3.0	5.9	4.5	NA	0.66	<1.0	<0.50	**6.2**	3.8	<0.50	<0.50	<0.50
	4/27/2010	13	<0.5	<0.5	<0.50	<10	<0.50	1.2	<0.50	<0.50	5.6	7.2	<0.50	<1.0	<0.50	1.2	0.93	**7**	6.5	<0.50	<0.50	<0.50
	9/9/2010	19.9	<0.50	<0.50	<0.50	NA	<0.50	2	<0.50	<0.50	3.6	10.5	NA	NA	0.63	<0.50	<0.50	**17.4**	4.7	<0.50	<0.50	<0.50
	3/4/2011	12.4	<0.50	<0.50	<0.50	NA	<0.50	1.7	<0.50	<0.50	5.1	9.7	NA	NA	<0.50	<0.50	<0.50	**12.3**	5.8	<0.50	<0.50	<0.50
	10/6/2011	30.4	<0.50	<0.50	<0.50	NA	<0.50	1.25	<0.50	<0.50	11.2	13.8	<0.50	NA	<0.50	2.95	1.04	**13.4**	15.2	<0.50	<0.50	<0.50
	5/14/2012	12.4	<0.50	<0.50	<0.50	NA	<0.50	0.63	<0.50	<0.50	5.1	6.1	<0.50	NA	<0.50	<0.50	<0.50	**8.2**	7.5	<0.50	<0.50	<0.50
	11/13/2012	15.8	<0.50	<0.50	<0.50	NA	<0.50	1.43	<0.50	<0.50	6.34	9.4	<0.50	NA	<0.50	<0.50	<0.50	**10.8**	10	<0.50	<0.50	<0.50
	5/1/2013	7.1	<0.50	<0.50	<0.50	NA	<0.50	0.77	<0.50	<0.50	3.3	3.8	<0.50	NA	<0.50	<0.50	<0.50	5.3	4.4	<0.50	<0.50	<0.50
	10/16/2013	11.6	<0.50	<0.50	<0.50	NA	<0.50	1.0	<0.50	<0.50	6.1	6.4	<0.50	NA	<0.50	<0.50	<0.50	**7.8**	10.6	<0.50	<0.50	<0.50
	5/15/2014	0.66	<0.50	<0.50	<0.50	NA	<0.50	1.0	<0.50	<0.50	1.4	0.93	<0.50	NA	<0.50	<0.50	<0.50	<2.0	3.3	<0.50	<0.50	<0.50

Table 2
Groundwater Analytical Results
Former Skippers Marine
Troutman, North Carolina
H&H Job No. KID-024

		Method - 6200 B (µg/L)																				
Sample ID	Date	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbezene	Acetone	Benzene	Chloroform	Ethylbenzene	Isopropyl ether (IPE)	Isopropylbenzene	m,p, and o-Xylenes	p-Isopropyltoluene	Methyl Butyl Ketone*	MTBE	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene
NC 2L Standard		400	0.4	0.6	400	6,000	1	70	600	70	70	500	NS	NS	20	70	70	6	70	70	0.7	600
MW-3	4/3/2009	1.6	<0.5	<0.5	<0.50	<10	**12**	<0.50	24	<0.50	3.0	3.6	<0.50	NA	<0.50	1.2	5.4	**9.5**	1.1	<0.50	<0.50	2.5
	7/27/2009	1.7	<0.5	<0.5	<0.50	<10	**11**	<0.50	29	<0.50	5.0	7.0	<0.50	NA	<0.50	1.2	6.7	**10**	0.74	<0.50	<0.50	11
	10/26/2009	<0.5	<0.5	<0.5	<0.50	<10	**1.1**	<0.50	6.6	<0.50	1.6	<1.0	<0.50	NA	<0.50	<1.0	1.8	2.4	<0.50	<0.50	<0.50	1.1
	1/25/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	4/27/2010	25	<0.5	<0.5	1.9	10	**45**	0.97	67	<0.50	3.0	51	<0.50	<1.0	1.6	1.4	5.7	**15**	1	<0.50	<0.50	35
	9/9/2010	<0.50	<0.50	<0.50	<0.50	NA	0.84	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50
	3/4/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50
	10/6/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/14/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	11/13/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/2/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
MW-5B	4/3/2009	**380**	<0.5	<0.5	160	<10	**4,000**	<0.50	**1,000**	<0.50	42	**548**	<20	NA	**290**	<1.0	**140**	**390**	<0.50	<20	<0.50	150
	7/27/2009	**320**	<20	<20	140	<400	**3,500**	<20	**880**	<20	50	310	<20	NA	**460**	<40	**140**	**330**	<20	<20	<20	81
	10/26/2009	**440**	<20	<20	180	<400	**3,400**	<20	**1,100**	<20	67	**525**	<20	NA	**520**	44	**180**	**410**	<20	<20	<20	140
	1/25/2010	360	<20	<20	150	<400	**3,700**	<20	**1,100**	<20	60	443	<20	NA	**470**	<40	**150**	**550**	<20	<20	<20	130
	4/27/2010	350	<20	<20	150	<400	**4,100**	<20	**1,100**	<20	58	500	<20	<40	**650**	27	**150**	**520**	<20	<20	<20	170
	9/9/2010	214	<20	<20	75.3	NA	**1,930**	<20	**801**	<20	19.2	181.7	NA	NA	**286**	<20	**70.4**	**425**	<20	<20	<20	99.7
	3/4/2011	253	<5.0	<5.0	137	NA	**2,900**	<5.0	**931**	<5.0	56.2	176.3	NA	NA	**237**	69.5	**131**	**499**	18.1	<5.0	<5.0	150
	10/6/2011	197	<0.5	<0.5	122	NA	**4,310**	<5.0	**1,410**	1.20	67.0	387	8.17	NA	**112**	35.9	**179**	**517**	10.8	5.00	<0.5	355
	5/14/2012	31.0	<0.5	<0.5	21.7	NA	**1,070**	<5.0	277	<5.0	9.5	51.9	<5.0	NA	**55.2**	<5.0	24.7	**106**	<5.0	<5.0	<0.5	53.9
	11/13/2012	60.6	<0.5	<0.5	43.4	NA	**1,310**	<5.0	558	<5.0	17.4	116	<5.0	NA	**20.1**	<5.0	62.3	**209**	<5.0	<5.0	<0.5	136
	5/1/2013	18.2	<0.5	<0.5	10.1	NA	**426**	<1.0	89	<1.0	6.0	27.5	<1.0	NA	<1.0	<1.0	10.5	**45.2**	1.3	<1.0	<1.0	25
	10/16/2013	1.4	<0.5	<0.5	0.68	NA	<0.50	<1.0	<0.50	<1.0	<0.50	<1.5	<1.0	NA	<0.50	0.95	1.9	<2.0	<0.50	<1.0	<1.0	<0.50
	5/15/2014	<0.5	<0.5	<0.5	<0.5	NA	<0.50	<1.0	<0.50	<1.0	<0.50	<1.5	<1.0	NA	<0.50	<0.5	<0.5	<2.0	<0.50	<1.0	<1.0	<0.50

Table 2
Groundwater Analytical Results
Former Skippers Marine
Troutman, North Carolina
H&H Job No. KID-024

		Method - 6200 B (µg/L)																				
Sample ID	Date	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbezene	Acetone	Benzene	Chloroform	Ethylbenzene	Isopropyl ether (IPE)	Isopropylbenzene	m,p, and o-Xylenes	p-Isopropyltoluene	Methyl Butyl Ketone*	MTBE	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene
NC 2L Standard		400	0.4	0.6	400	6,000	1	70	600	70	70	500	NS	NS	20	70	70	6	70	70	0.7	600
MW-6B	4/3/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	7/27/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/26/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	1/25/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	4/27/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	9/9/2010	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	3/4/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	0.83	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/6/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/14/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	11/13/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/1/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
MW-7	4/3/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	7/27/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/26/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	1/25/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	4/27/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	9/9/2010	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	3/4/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/6/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/14/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	11/13/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/1/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50

Table 2
Groundwater Analytical Results
Former Skippers Marine
Troutman, North Carolina
H&H Job No. KID-024

		Method - 6200 B (µg/L)																				
Sample ID	Date	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbezene	Acetone	Benzene	Chloroform	Ethylbenzene	Isopropyl ether (IPE)	Isopropylbenzene	m,p, and o-Xylenes	p-Isopropyltoluene	Methyl Butyl Ketone*	MTBE	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene
NC 2L Standard		400	0.4	0.6	400	6,000	1	70	600	70	70	500	NS	NS	20	70	70	6	70	70	0.7	600
MW-8	4/3/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	**210**	<1.0	<0.50	<2.0	<0.50	<0.50	**2.5**	<0.50
	7/27/2009	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	NA	**1,300**	<10	<5.0	<20	<5.0	<5.0	<5.0	<5.0
	10/26/2009	<0.5	**1.6**	**0.75**	<0.50	<10	0.66	<0.50	<0.50	3.2	1.4	<1.0	<0.50	NA	**980**	<1.0	<0.50	<2.0	1.4	<0.50	<0.50	<0.50
	1/25/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	**81**	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	4/27/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	1.5	<0.50	<1.0	<0.50	<1.0	**320**	<1.0	<0.50	<2.0	<0.50	<0.50	**2.8**	<0.50
	9/9/2010	<0.50	0.66	<0.50	<0.50	NA	<0.50	<0.50	<0.50	1.6	<0.50	<1.5	NA	NA	**581**	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	3/4/2011	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	NA	NA	**228**	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0
	10/6/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	1.50	<0.50	<1.5	<0.50	NA	**405**	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/25/2012	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	NA	**261**	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0
	11/13/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	0.849	<1.0	<1.5	<0.50	NA	**258**	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/1/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	**96.8**	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	0.62	<0.50	<1.5	<0.50	NA	**229**	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	5/15/2014	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	**211**	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
MW-9	4/3/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	**2.0**	<0.50
	7/27/2009	<0.5	**2.3**	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	7.2	<1.0	<0.50	<2.0	<0.50	<0.50	**0.8**	<0.50
	10/26/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	1.7	<1.0	<0.50	<2.0	<0.50	<0.50	0.68	<0.50
	1/25/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	4/27/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	**0.94**	<0.50
	9/9/2010	<0.50	0.9	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	7.1	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	3/4/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/6/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/25/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	11/13/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<1.5	<0.50	NA	1.79	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/1/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	1.6	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50

Table 2
Groundwater Analytical Results
Former Skippers Marine
Troutman, North Carolina
H&H Job No. KID-024

		Method - 6200 B (µg/L)																				
Sample ID	Date	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbezene	Acetone	Benzene	Chloroform	Ethylbenzene	Isopropyl ether (IPE)	Isopropylbenzene	m,p, and o-Xylenes	p-Isopropyltoluene	Methyl Butyl Ketone*	MTBE	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene
NC 2L Standard		400	0.4	0.6	400	6,000	1	70	600	70	70	500	NS	NS	20	70	70	6	70	70	0.7	600
MW-10	4/3/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	4.2	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	7/27/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	7.4	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/26/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	13	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	1/25/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	9.6	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	4/27/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	7.7	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	9/9/2010	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	9.9	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	3/4/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	8.9	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/6/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	7.27	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/25/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	2.9	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	11/13/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<1.5	<0.50	NA	4.62	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/2/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	3.0	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	1.7	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
MW-11	4/3/2009	<0.5	**9.7**	<0.5	<0.50	<10	**3.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	7/27/2009	<0.5	**8.1**	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/26/2009	<0.5	**4.9**	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	1/25/2010	<0.5	**14**	<0.5	<0.50	<10	**1.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	4/27/2010	<0.5	**23**	<0.5	<0.50	<10	**1.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	9/9/2010	<0.50	**20.6**	<0.50	<0.50	NA	**2.7**	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	3/4/2011	<0.50	**36.8**	<0.50	<0.50	NA	**95.3**	<0.50	<0.50	1.2	<0.50	3.0	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/6/2011	<0.50	**26.0**	<0.50	<0.50	NA	**38.4**	<0.50	<0.50	0.590	<0.50	1.79	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/25/2012	<0.50	**14.8**	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	11/13/2012	<0.50	**29.6**	<0.50	<0.50	NA	**88.7**	<0.50	<0.50	1.25	<1.0	3.11	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/2/2013	<0.50	**11.2**	<0.50	<0.50	NA	**3.5**	<0.50	<0.50	<0.50	<0.50	1.50	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	**10.0**	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	5/15/2014	<0.50	**76.1**	<0.50	<0.50	NA	**364**	<0.50	<0.50	4.6	1.1	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50

Table 2
Groundwater Analytical Results
Former Skippers Marine
Troutman, North Carolina
H&H Job No. KID-024

		Method - 6200 B (µg/L)																				
Sample ID	Date	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbezene	Acetone	Benzene	Chloroform	Ethylbenzene	Isopropyl ether (IPE)	Isopropylbenzene	m,p, and o-Xylenes	p-Isopropyltoluene	Methyl Butyl Ketone*	MTBE	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene
NC 2L Standard		400	0.4	0.6	400	6,000	1	70	600	70	70	500	NS	NS	20	70	70	6	70	70	0.7	600
MW-12	4/3/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	7/27/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/26/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	1/25/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	4/27/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	9/9/2010	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	3/4/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/6/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/25/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	11/13/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/2/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
MW-13	4/3/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	7/27/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/26/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	1/25/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	4/27/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	9/9/2010	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	3/4/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/6/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/14/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	11/13/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/2/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50

Table 2
Groundwater Analytical Results
Former Skippers Marine
Troutman, North Carolina
H&H Job No. KID-024

		Method - 6200 B (µg/L)																				
Sample ID	Date	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbezene	Acetone	Benzene	Chloroform	Ethylbenzene	Isopropyl ether (IPE)	Isopropylbenzene	m,p, and o-Xylenes	p-Isopropyltoluene	Methyl Butyl Ketone*	MTBE	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene
NC 2L Standard		400	0.4	0.6	400	6,000	1	70	600	70	70	500	NS	NS	20	70	70	6	70	70	0.7	600
MW-15B	4/3/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	7/27/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/26/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	1/25/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	4/27/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	9/9/2010	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	3/4/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/6/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/14/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	11/13/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/1/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
TW-1	4/3/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	7/27/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/26/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	1/25/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	4/27/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	9/9/2010	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	3/9/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/6/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/14/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	11/13/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/1/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50

Table 2
Groundwater Analytical Results
Former Skippers Marine
Troutman, North Carolina
H&H Job No. KID-024

		Method - 6200 B (µg/L)																				
Sample ID	Date	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbezene	Acetone	Benzene	Chloroform	Ethylbenzene	Isopropyl ether (IPE)	Isopropylbenzene	m,p, and o-Xylenes	p-Isopropyltoluene	Methyl Butyl Ketone*	MTBE	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene
NC 2L Standard		400	0.4	0.6	400	6,000	1	70	600	70	70	500	NS	NS	20	70	70	6	70	70	0.7	600
WSW-12	4/3/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	**0.71**	<0.50
	7/27/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	**1.0**	<0.50
	10/26/2009	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	0.69	<0.50
	1/25/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	**0.75**	<0.50
	4/27/2010	<0.5	<0.5	<0.5	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<0.50	<2.0	<0.50	<0.50	0.69	<0.50
	9/9/2010	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	**0.72**	<0.50
	3/4/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	NA	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	0.59	<0.50
	10/6/2011	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/14/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/6/2012	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/1/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50
	5/15/2014	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50

Notes:
Bold indicates that concentrations exceed the standard
* Historically Methyl Butyl Ketone was or is not included in the EPA Method 6200B list
Only compounds detected in at least one sample shown above
NA = Not analyzed; NS = No NC 2L Groundwater Standard
NC 2L Standard=North Carolina Groundwater Quality Standard (15A NCAC 2L .0202)
Only sampled for Volatile Organic Compounds (VOCs)
Chloromethane was detected at trace levels in MW-12 and MW-13 in January 2010 due to lab contamination
Methylene chloride was detected at a concentrations of 5 ug/l and 6.08 ug/l in MW-8 and MW-1 in April 2011 and October 2011, respectively; however, methylene chloride is not a gasoline constituent or a petroleum-related compound
Chloroethane was detected in MW-11 at concentrations of 0.550 ug/l and 0.654 ug/l in October 2011 and November 2012, respectively.
tert-butylbenzene was detected at concentrations of 0.680 ug/l and 0.52 ug/l in MW-2 in October 2011 and October 2013, respectively.
Methylene Chloride was detected at a concentration of 4.4 ug/l in MW-8 in May 2012
Chloromethane was detected at a concentration of 29.6 ug/l in WSW-12 in December 2012
Methylene Chloride was detected at a concentration of 8.1 ug/l in MW-11 in May 2014

Table 3
Groundwater Geochemical Results
Former Skippers Marina
Troutman, North Carolina
H&H Job No. KID-020

Well ID	Sample Date	Dissolved Oxygen (mg/l)	ORP (mV)	pH (standard units)	Temperature (°C)	Specific Conductivity (umhos/cm)
MW-1	4/3/2009	NA	NA	6.19	18.1	295.0
	7/27/2009	NA	-16	6.46	22.8	132.5
	10/26/2009	8.12	-31	6.41	23.2	136.1
	1/25/2010	8.48	113	6.41	18.19	NA
	4/27/2010	9.08	60	6.59	13.5	84.6
	9/9/2010	8.41	-17	6.31	24.7	137.5
	3/9/2011	6.32	NA	6.48	17.5	162.2
	10/6/2011	1.05	NA	6.48	24.1	93.2
	5/14/2012	1.64	280	6.04	19.4	48.9
	11/13/2012	5.03	143	6.51	22.4	51.0
	5/1/2013	8.48	166	6.95	18.7	30.2
	10/16/2013	7.22	171	6.41	24.5	61.5
	5/15/2014	6.69	149	6.04	23.8	77.86
MW-2	4/3/2009	NA	NA	4.06	NA	NA
	7/27/2009	NA	321	5.06	21.1	76.2
	10/26/2009	1.07	285	5.10	21.8	70.0
	1/25/2010	0.82	200	4.57	18.57	NA
	4/27/2010	0.34	325	5.11	16.7	93.5
	9/9/2010	1.08	282	5.06	22.2	75.4
	3/4/2011	0.95	NA	5.16	17.9	69.9
	10/6/2011	1.03	NA	5.04	21.2	73.9
	5/14/2012	1.61	291	4.98	18.4	80.1
	11/13/2012	0.81	199	4.76	21.9	66.0
	5/1/2013	1.57	191	5.23	17.9	82.7
	10/16/2013	2.46	253	4.96	23.0	77.0
	5/15/2014	3.01	283	4.98	23.4	82.0
MW-3	4/3/2009	NA	NA	6.09	18.1	173.0
	7/27/2009	NA	7	6.05	22.3	114.9
	10/26/2009	0.90	209	5.76	24.0	96.8
	1/25/2010	7.28	232	5.62	10.2	NA
	4/27/2010	0.32	30	6.22	17.5	122.0
	9/9/2010	0.19	3	6.04	24.4	123.6
	3/4/2011	0.20	NA	6.03	17.2	87.9
	10/6/2011	0.51	NA	5.89	24.4	100.1
	5/14/2012	1.11	171	5.51	20.0	65.1
	11/13/2012	1.27	176	5.62	22.4	51.0
	5/1/2013	5.02	255	5.93	18.3	112.3
	10/16/2013	4.98	186	5.53	26.1	126.8
	5/15/2014	5.16	NA	NA	NA	NA
MW-5B	4/3/2009	NA	NA	6.49	16.9	382.0
	7/27/2009	NA	-80	6.44	21.8	436.9
	10/26/2009	0.08	-76	6.38	22.4	439.0
	1/25/2010	0.32	-3	6.51	16.95	NA
	4/27/2010	2.46	-16	6.34	16.5	349.0
	9/9/2010	0.40	-53	6.35	23.9	306.2
	3/4/2011	0.32	NA	6.23	17.1	330.5
	10/6/2011	0.62	NA	5.94	20.4	348.1
	5/14/2012	1.21	66	6.06	18.6	192.3
	11/13/2012	1.26	7	6.20	21.9	211.0
	5/1/2013	0.73	261	5.24	16.5	423.1
	10/16/2013	5.52	171	6.41	24.5	61.5
	5/15/2014	6.17	99	6.61	24.0	68.17
MW-6B	4/3/2009	NA	NA	5.10	NA	200.0
	7/27/2009	NA	300	5.78	28.3	130.3
	10/26/2009	0.97	245	5.66	22.5	129.4
	1/25/2010	6.42	207	5.37	10.16	NA
	4/27/2010	0.48	121	5.69	18.2	132.2
	9/9/2010	1.04	299	4.76	24.2	174.1
	3/4/2011	0.37	NA	5.60	14.5	109.6
	10/6/2011	0.68	NA	5.66	24.3	178.1
	5/14/2012	1.29	198	5.80	22.6	115.4
	11/13/2012	3.26	147	4.51	23.0	154.0
	5/1/2013	1.50	257	5.81	17.4	132.3
	10/16/2013	0.64	160	5.59	25.9	139.1
	5/15/2014	1.12	NA	NA	NA	NA

Table 3
Groundwater Geochemical Results
Former Skippers Marina
Troutman, North Carolina
H&H Job No. KID-020

Well ID	Sample Date	Dissolved Oxygen (mg/l)	ORP (mV)	pH (standard units)	Temperature (°C)	Specific Conductivity (umhos/cm)
MW-7	4/3/2009	NA	NA	4.92	NA	155.0
	7/27/2009	NA	306	4.86	22.8	129.7
	10/26/2009	0.17	275	4.90	23.7	191.5
	1/25/2010	2.58	206	4.62	18.19	NA
	4/27/2010	1.56	341	4.87	17.1	185.0
	9/9/2010	0.27	105	5.75	19.4	166.7
	3/4/2011	0.12	NA	5.01	17.0	156.7
	10/6/2011	0.21	NA	4.65	25.1	150.9
	5/14/2012	1.73	346	4.58	19.3	144.3
	11/13/2012	1.54	242	4.51	23.0	191.0
	5/1/2013	2.61	300	4.87	17.6	209.7
	10/16/2013	2.28	286	4.49	24.4	187.8
	5/15/2014	NA	NA	NA	NA	NA
MW-8	4/3/2009	NA	NA	5.37	16.33	136.0
	7/27/2009	NA	179	5.68	18.5	174.8
	10/26/2009	0.61	104	5.60	19.3	200.6
	1/25/2010	8.60	172	5.71	16.25	NA
	4/27/2010	5.85	240	5.78	15.4	139.0
	9/9/2010	0.27	105	5.75	19.4	166.7
	3/4/2011	0.19	NA	5.75	16.4	904.3
	10/6/2011	0.30	NA	5.76	19.4	198.4
	5/25/2012	1.64	141	5.61	16.8	166.7
	11/13/2012	0.78	127	5.60	19.2	142.0
	5/1/2013	2.53	161	6.12	15.7	122.3
	10/16/2013	0.63	82	5.82	19.6	129.1
	5/15/2014	0.97	79	5.26	21.3	177.9
MW-9	4/3/2009	NA	NA	5.44	15.33	173.0
	7/27/2009	NA	85	5.92	18.1	154.3
	10/26/2009	0.46	45	5.79	19.3	160.8
	1/25/2010	7.95	166	5.87	14.29	NA
	4/27/2010	3.58	112	5.92	14.6	155.6
	9/9/2010	0.23	14	5.96	19	148.9
	3/4/2011	0.15	NA	5.64	15.9	472.3
	10/6/2011	0.28	NA	5.91	19.6	148.6
	5/25/2012	0.56	165	5.71	17.4	116.4
	11/13/2012	0.70	40	5.69	19.3	143.0
	5/1/2013	2.56	161	6.12	15.7	122.3
	10/16/2013	0.58	48	5.91	19.5	176.1
	5/15/2014	0.72	NA	NA	NA	NA
MW-10	4/3/2009	NA	NA	4.38	16.56	111.0
	7/27/2009	NA	374	4.67	19.1	101.1
	10/26/2009	0.69	292	4.78	19.5	124.0
	1/25/2010	0.77	188	4.37	15.89	NA
	4/27/2010	1.29	320	4.87	14.9	103.0
	9/9/2010	0.47	331	4.72	19.3	98.6
	3/4/2011	1.22	NA	5.04	14.7	96.5
	10/6/2011	1.33	NA	4.80	18.4	109.3
	5/25/2012	1.55	173	5.01	17.3	103.6
	11/13/2012	0.91	240	4.48	19.4	113.0
	5/2/2013	1.29	265	4.96	16.3	122.3
	10/16/2013	0.71	214	4.77	19.6	123.8
	5/15/2014	1.22	NA	NA	NA	NA
MW-11	4/3/2009	NA	NA	4.52	14.33	34.0
	7/27/2009	NA	344	5.01	15.1	42.9
	10/26/2009	1.47	261	5.09	15.9	55.1
	1/25/2010	1.20	182	4.55	14.1	NA
	4/27/2010	6.34	297	5.02	13.3	47.7
	9/9/2010	1.29	301	4.98	16.3	44.2
	3/4/2011	0.97	NA	5.18	14.5	48.9
	10/6/2011	1.18	NA	5.13	15.3	55.2
	5/25/2012	1.61	348	3.98	15.4	49.9
	11/13/2012	3.02	348	3.98	15.4	49.9
	5/2/2013	2.82	252	5.21	14.0	48.4
	10/16/2013	3.43	255	4.81	16.2	51.8
	5/15/2014	3.96	137	5.19	18.0	65.5

Table 3
Groundwater Geochemical Results
Former Skippers Marina
Troutman, North Carolina
H&H Job No. KID-020

Well ID	Sample Date	Dissolved Oxygen (mg/l)	ORP (mV)	pH (standard units)	Temperature (°C)	Specific Conductivity (umhos/cm)
MW-12	4/3/2009	NA	NA	4.72	14.0	67.0
	7/27/2009	NA	224	5.09	15.6	76.1
	10/26/2009	0.65	205	5.05	16.5	88.4
	1/25/2010	0.78	169	4.77	14.33	NA
	4/27/2010	2.15	240	5.02	12.9	118.7
	9/9/2010	0.28	231	5.11	16.5	109.6
	3/4/2011	0.92	NA	5.22	13.7	113.4
	10/6/2011	0.98	NA	5.00	16.0	121.1
	5/25/2012	1.18	251	4.96	17.2	84.3
	11/13/2012	1.14	248	4.78	15.8	110.0
	5/2/2013	1.97	218	5.15	13.8	122.1
	10/16/2013	2.74	88	5.32	17.1	155.9
	5/15/2014	3.34	NA	NA	NA	NA
MW-13	4/3/2009	NA	NA	5.10	12.78	210.0
	7/27/2009	NA	60	5.50	19.4	138.1
	10/26/2009	1.17	67	5.47	18.2	229.5
	1/25/2010	0.46	100	5.21	12.07	NA
	4/27/2010	0.63	93	5.36	13.3	238.0
	9/9/2010	1.22	101	5.53	21.1	205.3
	3/4/2011	1.11	NA	5.35	12.7	206.3
	10/6/2011	1.21	NA	5.21	18.9	186.6
	5/14/2012	1.33	98	5.39	15.8	210.9
	11/13/2012	0.91	160	5.22	19.4	113.0
	5/2/2013	0.63	173	5.61	13.8	197.6
	10/16/2013	0.78	97	5.44	19.3	198.9
	5/15/2014	1.42	NA	NA	NA	NA
MW-15B	4/3/2009	NA	NA	5.29	16.9	354.0
	7/27/2009	NA	297	5.26	19.7	458.1
	10/26/2009	0.74	261	5.09	21.1	516.4
	1/25/2010	0.41	203	5.08	16.4	NA
	4/27/2010	0.28	303	5.48	15.5	395.0
	9/9/2010	0.38	262	5.01	20.2	367.3
	3/4/2011	0.74	NA	4.90	17.0	1025
	10/6/2011	0.91	NA	4.80	20.3	291.9
	5/14/2012	1.41	314	4.77	17.3	433.0
	11/13/2012	1.08	228	4.69	20.7	458.0
	5/1/2013	1.27	261	5.24	16.5	423.1
	10/16/2013	2.78	260	4.98	22.0	245.3
	5/15/2014	3.07	NA	NA	NA	NA
TW-1	4/3/2009	NA	NA	5.45	19.2	58.0
	7/27/2009	NA	210	6.37	20.2	66.7
	10/26/2009	3.93	49	6.22	19.5	71.4
	1/25/2010	5.88	120	6.02	17.72	NA
	4/27/2010	7.28	-16	6.34	16.5	349.0
	9/9/2010	5.89	190	6.25	19.9	59.9
	3/9/2011	3.85	NA	6.55	17.1	61.0
	10/6/2011	1.29	NA	6.34	19.4	65.2
	5/14/2012	1.38	267	6.21	18.9	68.8
	11/13/2012	3.62	177	6.06	19.6	59.0
	5/1/2013	5.57	197	6.51	19.4	60.2
	10/16/2013	3.97	202	6.13	24.0	61.4
	5/15/2014	3.47	NA	NA	NA	NA

Notes:
NA = Not Analyzed
On April 3, 2009 equipment malfunctions prevented reading ORP and Specific Conductivity
On January 25, 2010 equipment malfunctions prevented accurate Specific Conductivity readings
May 2012 DO measurments for MW-8 through MW-12 collected on May 14, 2012

Table 4
Soil Vapor Extraction System Data
Former Skippers Marina
Troutman, North Carolina
H&H Job No. KID-020

O&M Date	System Running Upon Arrival	Blower Hour Meter	Blower Vacuum ("H_2O)	Field # 1Air Flow (scfm/"H_2O)	Field # 2 Air Flow (scfm/"H_2O)	Total Air Flow (scfm)	Discharge Temp (°F)	PID Off-Gas Concentration (ppm)	Additional Comments
4/27/2009	No	0.0	54	5.5 / 30	9.0 / 30	171	<130	245	Initial start-up of system
5/5/2009	Yes	28.2	54	5.2 / 34	3.6 / 34	168	130	430	Hour meter rewired since last visit
5/11/2009	Yes	171.4	56	5.2 / 36	3.6 / 36	168	<130	160	Sampled SVE051109 @ 14:30
5/19/2009	Yes	358.8	52-68	5.2 / 55	3.6 / 55	150	135	190	Increased vacuum to wells after arriving
6/23/2009	Yes	1201.7	55	5.2 / 55	3.6 / 55	140	175	225	
7/27/2009	Yes	2015.2	55	5.2 / 55	3.6 / 55	133	180	78	Sampled SVE072709 @ 10:30
8/14/2009	Yes	2449.0	55	5.2 / 55	3.6 / 55	126	180	140	
9/25/2009	Yes	3413.3	78	5.2 / 50	3.6 / 50	126	170	158	
10/23/2009	Yes	4091.1	NA	5.2 / 45	3.6 / 45	157	180	NA	Bleed-air obstruction removed.
10/26/2009	Yes	4156.2	70	5.2 / 52	3.0 / 52	154	145	28.3	Sampled SVE102609 @ 1045
11/6/2009	Yes	4421.6	70	5.2 / 52	3.6 / 52	157	145	38	
12/30/2009	Yes	5717.1	74	5.2 / 42	3.6 / 48	165	130	70	
1/28/2010	Yes	6416.5	72	5.2 / 50	3.6 / 50	155	140	12	Sampled SVE012810 @ 13:50
2/17/2010	Yes	6899.9	70	5.2 / 55	3.6 / 55	145	145	22	
3/29/2010	Yes	7859.3	NA	15.6 / 55	<3.6 / 55	147	158	9.8	Vacuum gauge not working
4/27/2010	Yes	8552.6	50	5.2/50	3.6 / 50	140	150	1.8	Sampled SVE052710 @ 15:00
5/19/2010	Yes	9081.3	52	5.2/48	3.6 / 50	157	154	0.9	
6/25/2010	No	9964.5	NA	NA	NA	NA	NA	NA	Blower not working; System down
8/13/2010	No	9964.5	NA	5.2/40	3.6/40	NA	165	32	Blower replaced and system restarted
9/9/2010	Yes	10616.6	36	NA	NA	161	NA	1.8	Sampled SVE09092010 @ 1610
10/26/2010	Yes	11744.6	40	5.2/40	9/40	140	140	6	
11/18/2010	Yes	12091.0	47	4.5/45	9/47	161	130	4.5	
12/10/2010	Yes	12821.5	45	4.5/45	9/45	161	130	2	
1/20/2011	Yes	13802.3	44	5.2/42	3.6/44	161	130	2.2	
2/22/2011	Yes	14602.5	40	4.5/40	9/40	165	130	4.5	
3/9/2011	Yes	14958.5	40	4/40	9/40	163	130	NA	
4/29/2011	Yes	16179.2	60	4.5/40	9/46	150	150	4.2	
5/11/2011	Yes	16467.7	60	4.5/40	9/46	147	150	3.7	
6/16/2011	Yes	17328.4	62	4.5/48	9/46	147	150	3.7	
7/8/2011	Yes	17861.2	60	4.0/42	9/44	162	160	6.9	
8/22/2011	Yes	18938.4	60	4.0/44	7.5/42	150	160	5.1	
9/16/2011	Yes	19538.1	60	10.0/44	8.5/42	150	140	4.7	
10/28/2011	Yes	20549.1	60	12.6/45	9.0/40	147	130	1.5	
11/28/2011	Yes	21293.6	60	12.6/45	9.0/40	150	140	2.7	
12/30/2011	Yes	22063.4	68	30/30	18/34	147	130	2.5	
1/19/2012	Yes	22542.8	65	18/49	42/46	147	130	0.8	
2/28/2012	Yes	23500.0	65	42/49	18/46	147	132	0.2	
3/15/2012	Yes	23882.5	60	42/44	18/42	154	145	1.1	
4/30/2012	Yes	24982.2	60	5/44	44/42	147	145	1.2	
5/16/2012	Yes	25364.7	60	4/46	44/44	150	140	2.7	
6/14/2012	Yes	26060.7	64	4/45	44/44	147	160	1.7	
7/11/2012	Yes	26708.7	64	4/45	44/44	147	162	2.1	
8/16/2012	Yes	27572.7	60	4/40	44/38	152	155	4.3	
9/25/2012	Yes	28532.7	66	4/40	44/40	147	150	0.0	
10/26/2012	Yes	29276.7	66	4/40	44/40	147	145	1.2	
11/26/2012	No	29636.7	NA	NA	NA	NA	NA	NA	Blower malfunctioning; removed for repair on 12/6/12
3/6/2013	No	29636.7	80	3/44	10/42	160	60	NA	Blower malfunctioning; repaired blower installed and system restarted
4/24/2013	Yes	30377.8	85	3/36	10/38	160	145	5.4	
5/23/2013	Yes	31118.9	70	4/22	9/20	170	150	0.2	
6/25/2013	Yes	31910.9	70	3/18	10/17	175	140	1.5	
7/25/2013	Yes	32630.9	70	2/20	10/18	170	140	2.7	
8/8/2013	Yes	32966.9	72	2/18	10/16	168	150	1.5	
9/27/2013	Yes	34166.9	76	2/16	10/18	175	130	1.3	
10/23/2013	Yes	34790.9	76	2/16	10/18	175	120	0.9	
11/20/2013	Yes	35462.9	80	3/22	10/20	175	130	0.5	
12/31/2013	Yes	36446.9	82	3/20	8/20	160	130	0.0	
1/21/2014	Yes	36950.9	84	3/24	5/24	175	130	0.0	
2/19/2014	Yes	37646.9	80	3/30	8/30	175	130	0.0	
3/31/2014	Yes	38606.9	80	3/30	3/28	175	130	0.0	
4/22/2014	Yes	39134.9	78	5/25	5/24	175	135	0.4	
5/16/2014	Yes	39710.9	80	3/30	8/30	175	130	0.0	

Notes:
SVE System Started on April 27, 2009
PID = Photo Ionization Detector
NA = Not Available
Blower hour meter not operating; meter value is estimated based on days of operation

Table 5
Air Sparge System Data
Former Skippers Marina
Troutman, North Carolina
H&H Job No. KID-024

O&M Date	System Running Upon Arrival	Compressor Hour Meter	Compressor Pressure (psi)	Manifold Pressure (psi)	Sparge Well AS-1		Sparge Well AS-2		Sparge Well AS-3		Sparge Well AS-4		Sparge Well AS-5		Sparge Well AS-6		Sparge Well AS-7		Additional Comments
					Air Flow (scfm)	Pressure (psi)	Air Flow (scfm)	Pressure (psi)	Air Flow (scfm)	Pressure (psi)	Air Flow (scfm)	Pressure (psi)	Air Flow (scfm)	Pressure (psi)	Air Flow (scfm)	Pressure (psi)	Air Flow (scfm)	Pressure (psi)	
5/5/2009	Yes	30.0	100	35	1.4	6.0	1.50	7.0	1.5	8.0	1.60	8.0	1.5	7.0	1.50	7.0	1.50	8.0	Initial system start-up by Enviro-Equipment, 5/4/09
5/11/2009	Yes	172.0	98	35	1.5	7.0	1.50	9.5	1.6	9.5	1.60	10.0	1.5	9.0	1.50	9.0	1.50	9.0	
5/19/2009	Yes	360.0	100	35	1.8	8.0	1.60	9.0	1.5	10.0	1.60	9.0	1.5	8.5	1.50	9.0	1.50	8.0	
6/23/2009	Yes	1202.0	80	40	2.4	8.0	2.50	8.0	2.5	10.0	2.60	9.5	2.4	8.0	2.40	9.0	2.50	9.5	
7/27/2009	Yes	1420.0	90	38	2.2	6.0	2.20	8.0	2.0	10.0	2.00	9.0	2.2	8.0	2.00	8.0	2.00	8.0	
8/14/2009	No	1587.0	90	40	2.0	6.0	2.00	9.0	2.0	11.0	2.10	10.0	2.0	8.0	2.00	8.0	2.00	8.0	
9/25/2009	Yes	2594	80	35	2.0	5.0	2.00	8.0	2.0	9.0	2.00	8.0	2.0	8.0	2.00	9.0	2.00	8.0	
10/23/2009	Yes	3272	85	35	2.5	9.0	2.50	9.0	2.4	10.0	2.50	10.0	2.5	8.0	2.50	9.0	2.50	8.5	
10/26/2009	Yes	3337	100	35	2.5	8.0	2.50	8.0	2.5	10.0	2.50	10.0	2.5	8.0	2.50	9.0	2.50	8.5	
11/6/2009	Yes	3602	100	36	2.5	8.0	2.50	10.0	2.5	10.0	2.50	10.0	2.5	8.0	2.50	9.0	2.50	8.0	
12/30/2009	Yes	4898	90	35	2.5	8.0	2.40	9.0	2.4	10.0	2.40	10.0	2.5	9.0	2.50	9.0	2.60	9.0	Performed oil change & oil filter, separator and air filter change
1/28/2010	Yes	5595	105	35	2.5	7.0	2.40	8.0	2.4	9.0	2.40	9.0	2.5	8.0	2.50	9.0	2.50	8.0	
2/17/2010	Yes	6079	95	35	2.5	7.0	2.60	9.0	2.4	10.0	2.50	10.0	2.5	9.0	2.60	9.0	2.60	8.0	
3/29/2010	Yes	7035	85	35	3.0	7.0	3.00	7.0	3.0	9.0	3.00	9.0	3.3	8.0	3.00	8.0	3.25	8.0	
4/27/2010	Yes	7732	90	35	3.0	8.0	2.80	10.0	2.8	10.0	3.00	11.0	3.2	9.0	3.00	10.0	3.20	9.0	
5/19/2010	Yes	8259	90	35	3.0	8.0	3.10	10.0	2.8	11.0	3.00	11.0	3.0	9.0	3.00	10.5	3.10	9.0	
6/25/2010	No	8665	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Blower not operating due to SVE malfunction
8/13/2010	No	8665	25	18	3.0	8.0	2.00	10.0	3.0	15.0	3.00	17.0	3.0	11.0	2.00	10.0	2.00	11.0	Blower replaced and system restarted
9/24/2010	Yes	9670	30	18	3.0	7.0	2.00	8.0	3.0	9.0	3.00	10.0	3.0	8.0	2.00	9.0	2.00	8.0	
10/26/2010	Yes	10445	10	10	2.0	5.0	2.00	5.0	3.8	8.0	4.00	8.0	4.0	7.0	2.00	8.0	3.80	7.0	
11/18/2010	Yes	10792	14	12	2.0	6.0	2.00	6.0	4.0	8.0	4.00	7.0	4.0	7.0	2.00	8.0	4.00	8.0	
12/10/2010	Yes	11522	12	12	2.0	5.0	2.00	6.0	4.0	9.0	4.00	9.0	4.0	7.0	2.00	8.0	4.00	8.0	
1/20/2011	Yes	12502	16	12	2.0	6.0	2.25	6.0	3.75	10.0	4.00	9.0	4.0	7.0	2.25	8.5	4.00	7.5	
2/22/2011	Yes	13303	28	20	3.0	7.5	2.00	9.0	3.0	9.0	4.00	10.0	3.0	8.0	2.00	8.0	2.00	8.0	
3/9/2011	No	13447	28	20	3.5	10.0	3.00	12.0	2.8	15.0	3.00	15.0	3.3	13.0	3.00	14.0	2.50	13.0	Compressor inline air filter cleaned and system restarted
4/29/2011	No	13879	30	17	3.5	9.0	3.00	10.0	3.0	12.0	3.25	12.0	3.5	9.0	3.00	10.0	2.50	9.0	Compressor Contactor Tripped; reset
5/11/2011	Yes	14182	30	17	3.5	7.0	3.00	8.0	3.0	10.0	3.25	10.0	3.75	8.0	3.00	9.0	3.00	8.0	
6/16/2011	Yes	15042	25	17	3.25	8.0	3.00	10.0	3.25	11.0	3.50	11.0	3.75	9.0	3.00	10.0	3.00	9.0	
7/8/2011	Yes	15575	25	17	3.25	7.0	2.75	9.0	3.25	10.0	3.50	10.0	3.75	8.0	3.00	9.0	3.00	8.0	
8/22/2011	No	15583	25	17	4.0	10.0	3.25	13.0	2.5	17.0	2.75	17.0	3.0	15.0	2.75	15.0	2.50	15.0	Compressor down due to apparent electrical interruption; reset
9/16/2011	Yes	16183	25	17	3.25	7.0	3.00	8.0	3.0	10.0	3.50	10.0	3.75	8.0	3.00	9.0	3.00	8.0	
10/28/2011	Yes	17194	25	17	3.5	7.0	3.25	9.0	3.5	10.0	3.50	10.0	4.0	9.0	3.00	9.0	3.00	9.0	
11/28/2011	Yes	17938	25	17	3.25	6.0	3.00	8.0	3.0	9.0	3.50	9.0	3.5	7.0	3.00	8.0	3.00	7.0	
12/30/2011	No	18035	35	20	4.0	10.0	3.00	13.0	2.5	17.0	2.75	16.0	3.0	15.0	3.00	15.0	2.50	15.0	Compressor down due to apparent electrical interruption; reset
1/19/2012	Yes	18514	35	20	4.0	12.0	3.00	17.0	2.5	19.0	3.00	20.0	3.00	18.0	2.75	18.0	2.75	17.0	
2/28/2012	No	18607	35	20	3.5	10.0	3.00	12.0	2.75	15.0	3.00	15.0	3.25	14.0	3.00	13.0	2.75	3.0	Compressor down due to low oil condition; oil added
3/15/2012	No	18685	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Compressor down due to low oil condition; parts ordered
4/30/2012	No	18686	35	20	3.5	11.0	3.00	13.0	2.75	15.0	3.00	16.0	3.25	14.0	3.00	13.0	2.75	14.0	Parts replaced and compressor restarted
5/16/2012	Yes	19069	25	20	3.3	7.0	3.00	9.0	3.00	10.0	3.75	10.0	3.75	9.0	3.00	9.0	3.00	9.0	
6/14/2012	Yes	19768	25	18	3.3	8.0	3.00	9.0	3.00	11.0	3.50	11.0	3.50	9.0	3.00	9.0	3.00	9.0	
7/11/2012	Yes	20417	25	18	3.0	8.0	3.00	10.0	3.00	11.0	3.50	11.0	3.75	10.0	3.00	10.0	3.00	9.0	
8/16/2012	Yes	21276	25	18	3.0	8.0	3.00	10.0	3.00	11.0	3.50	11.0	3.50	10.0	3.00	10.0	3.00	9.0	
9/25/2012	Yes	22241	30	15	3.0	7.0	2.75	9.0	3.25	9.0	3.75	10.0	3.75	8.0	3.00	7.0	3.00	7.0	
10/26/2012	No	22575	30	20	3.5	10.0	3.00	12.0	2.50	15.0	2.75	15.0	3.50	13.0	3.00	13.0	2.50	13.0	Compressor down due to apparent electrical interruption; reset
11/26/2012	Yes	23315	30	8	3.5	7.0	3.00	9.0	3.25	10.0	3.50	10.0	3.75	8.0	3.00	8.5	3.00	8.5	AS system off until SVE blower is repaired
3/6/2013	No	23315	35	15	3.0	15.0	3.00	15.0	2.40	17.0	2.80	17.0	3.40	15.0	3.20	15.0	2.60	15.0	Repaired SVE blower installed and system restarted
4/24/2013	Yes	24495	30	15	3.1	8.0	2.89	9.0	3.10	10.5	3.50	10.0	3.80	9.5	3.10	9.5	3.00	9.0	
5/23/2013	Yes	25188	25	10	3.0	9.0	2.80	10.0	3.10	11.0	3.50	11.0	3.80	9.5	3.00	9.0	2.90	9.0	
6/25/2013	No	25696	35	15	3.2	12.0	3.00	13.0	2.60	16.0	2.80	13.0	3.60	14.0	3.00	14.0	2.80	14.0	Compressor down due to apparent electrical interruption; reset
7/25/2013	No	26043	35	18	3.5	11.0	3.00	12.5	2.60	15.0	2.70	9.0	3.20	14.0	3.00	14.5	2.50	14.5	Compressor down due to apparent electrical interruption; reset
8/8/2013	Yes	26383	30	18	3.5	9.0	2.50	12.0	3.00	13.0	3.00	10.0	3.00	13.0	3.00	12.0	3.00	10.0	
9/27/2013	Yes	27578	30	12	3.4	9.0	2.80	10.0	3.10	11.0	3.50	11.0	3.80	10.0	3.00	10.0	2.90	10.0	
10/23/2013	No	27710	20	20	3.3	15.0	2.75	16.0	2.50	19.0	2.50	19.0	3.00	18.0	3.00	17.0	2.50	17.0	Compressor down due to apparent electrical interruption; reset
11/20/2013	Yes	28381	30	10	3.4	9.0	2.80	11.0	3.20	11.0	3.60	11.0	3.90	10.0	3.10	10.0	2.90	10.0	
12/31/2013	Yes	29366	32	10	3.3	8.0	2.80	10.5	3.20	11.0	3.50	10.5	3.80	10.0	3.00	10.0	3.00	10.0	
1/21/2014	No	29532	35	20	3.2	12.0	2.90	13.0	2.90	18.0	3.00	18.0	2.90	15.0	2.90	15.0	2.80	15.0	Compressor down due to apparent electrical interruption; reset
2/19/2014	Yes	30227	30	10	3.2	7.0	3.00	8.0	3.60	9.5	3.80	10.0	3.40	8.0	3.20	8.0	3.00	8.0	
3/31/2014	Yes	31062	30	10	3.2	8.0	3.20	10.5	3.00	11.0	3.30	10.5	3.10	10.0	3.40	10.0	2.90	10.0	
4/22/2014	No	31360	35	15	3.4	10.5	3.10	12.0	2.30	14.0	2.50	14.0	2.70	12.0	3.20	15.0	2.50	15.0	Compressor down due to apparent electrical interruption; reset
5/16/2014	Yes	31936	30	10	2.8	8.0	2.75	11.0	3.00	12.0	4.00	12.0	3.00	10.0	3.00	10.0	3.25	10.0	

Notes:
Air sparging system started on May 4, 2009
NA = Not Available

Table 6
Summary of Off-Gas Sampling Results (mg/m3)
Former Skippers Marina
Troutman, North Carolina
H&H Job No. KID-020

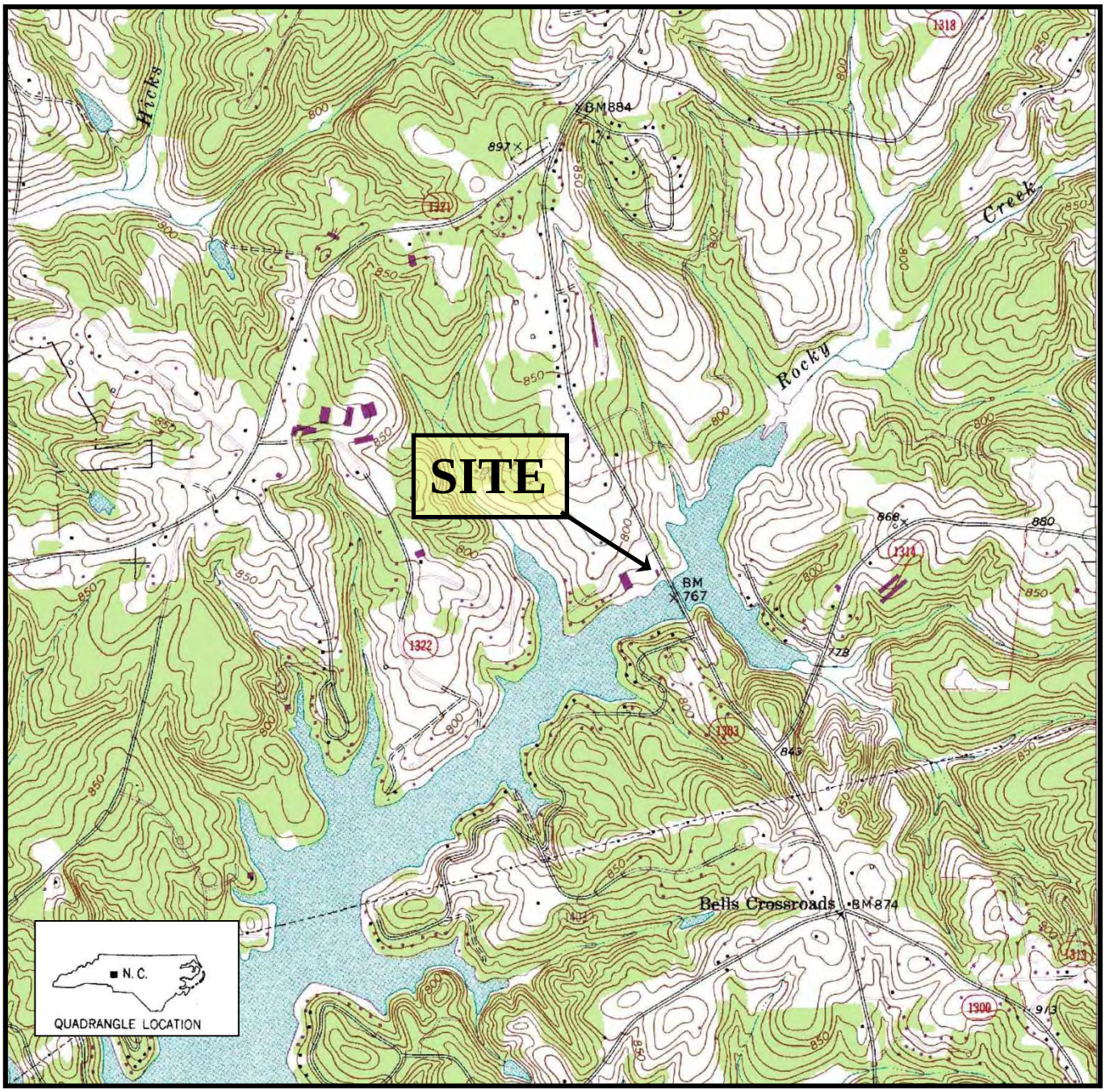
Sample ID	**SVE051109**	**SVE072709**	**SVE102609**	**SVE012810**	**SVE042710**	**SVE042710**	**SVE012011**	**SVE100611**	**SVE051412**	**SVE050213**	**SVE101613**	**SVE101613**
Sampling Date	**5/11/2009**	**7/27/2009**	**10/26/2009**	**1/28/2010**	**4/27/2010**	**9/9/2010**	**1/20/2011**	**10/6/2011**	**5/14/2012**	**5/2/2013**	**10/16/2013**	**5/15/2014**
Analytical method	**VOC's (Method 18)**	**VOC's (Method 18)**	**VOC's (Method 18)**	**VOC's (Method 18)**	**VOC's (Method 18)**	**VOC's (TO-3)**	**VOC's (Method 18)**	**VOC's (Method 18)**	**VOC's (TO-3)**	**VOC's (TO-3)**	**VOC's (TO-3)**	**VOC's (TO-3)**
Benzene	<5.0	5.7	<2.0	<2.0	<2.0	<0.65	<0.50	<0.50	<0.32	<0.32	9.42	<0.32
Ethylbenzene	5.2	<2.0	<2.0	<2.0	<2.0	<0.88	<0.50	<0.50	<0.44	<0.44	<0.75	<0.44
Toluene	7	10	<10	<10	<10	<0.77	<0.50	<0.50	<0.38	<0.38	2.45	<0.38
Xylene	3.3	8.2	<6.0	<6.0	<6.0	<2.68	<1.50	<1.50	<1.32	<1.32	2.21	<1.32
MTBE	<5.0	<10.0	<10	<10	<10	<0.73	<0.50	<0.50	<0.37	<0.37	13.9	<0.37
TRPH (based on Benzene)	600	490	140	110	<100	<8.7	<50	<50	<4.3	12.6	534	<4.3

Notes:
TRPH = Total recoverable petroleum hydrocarbons
THC = Total hydrocarbons
VOCs = Volatile organic compounds
MTBE = methyl tert butyl ether
NA = Not analyzed

Table 7
Estimated Mass Removal Rates
Soil Vapor Extraction/Air Sparge Remedial System
Former Skippers Marina
Troutman, North Carolina
H&H Job No. KID-024

				Off-Gas Analytical Results						Estimated Mass Removal Rate						Estimated Mass Removed During Period					
No. of days of operation in period	Dates of operation	Average Flow Rate (scfm)	Off-Gas sample collection date	Benzene (mg/m^3)	Toluene (mg/m^3)	Ethyl-benzene (mg/m^3)	Xylenes (mg/m^3)	MTBE (mg/m^3)	TRPH C4-C10 (mg/m^3)	Benzene (lb/day)	Toluene (lb/day)	Ethyl-benzene (lb/day)	Xylenes (lb/day)	MTBE (lb/day)	TRPH C4-C10 (lb/day)	Benzene (lb)	Toluene (lb)	Ethyl-benzene (lb)	Xylenes (lb)	MTBE (lb)	TRPH C4-C10 (lb)
14	4/27/2009 to 5/11/2009	168	5/11/2009	<5.0	7	5.2	3.3	<5.0	600	0.00	0.11	0.08	0.05	0.00	9.07	0.00	1.48	1.10	0.70	0.00	126.95
93	5/11/2009 to 8/14/2009	133	7/27/2009	5.7	10	<2.0	8.2	<10	490	0.07	0.12	0.00	0.10	0.00	5.86	6.34	11.13	0.00	9.12	0.00	545.22
81	8/15/2009 to 11/06/2009	145	10/26/2009	<2	<2	<10	<6	<10	140	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00	0.00	147.92
100	11/7/2009 to 2/17/2010	155	1/28/2010	<2	<2	<10	<6	<10	110	0.00	0.00	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00	0.00	153.38
92	2/18/2010 to 5/19/10	154	4/27/2010	<2	<2	<10	<6	<10	<100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	5/20/10 to 9/24/10*	158	9/9/2010	<0.65	<0.88	<0.77	<2.68	<0.73	<8.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	9/24/10 to 3/9/11	166	1/20/2011	<0.50	<0.50	<0.50	<1.50	<0.50	<50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
264	3/9/11 to 11/28/11	152	10/6/2011	<0.50	<0.50	<0.50	<1.50	<0.50	<50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	11/28/11 to 5/14/12	149	5/14/2012	<0.32	<0.38	<0.44	<1.32	<0.37	<4.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	5/14/12 to 11/10/12	148	5/14/2012**	<0.32	<0.38	<0.44	<1.32	<0.37	<4.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	11/10/12 to 5/5/13	163	5/2/2013	<0.32	<0.38	<0.44	<1.32	<0.37	12.6	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	14.41
199	5/5/13 to 11/20/13	173	10/16/2013	9.42	2.45	<0.75	2.21	13.9	534	0.15	0.04	0.00	0.03	0.22	8.31	29.17	7.59	0.00	6.84	43.05	1653.78
176	11/20/13 to 5/15/14	173	5/15/2014	<0.32	<0.38	<0.44	<1.32	<0.37	<4.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
															Totals	36	1	1	17	43	2,642

Notes:
System start-up was April 27, 2009
Mass removed = off-gas emission rate X average flow rate (applying appropriate unit conversions)
Totals = daily mass removed X number of days in period
TRPH = Total Recoverable Petroleum Hydrocarbons
* = System reported down from 6/25/10 to 8/13/10
** = May 14, 2012 off-gas data utlized because SVE system down during planned samping event.



N

APPROXIMATE

0 2000 4000

SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

TROUTMAN, NC 1993

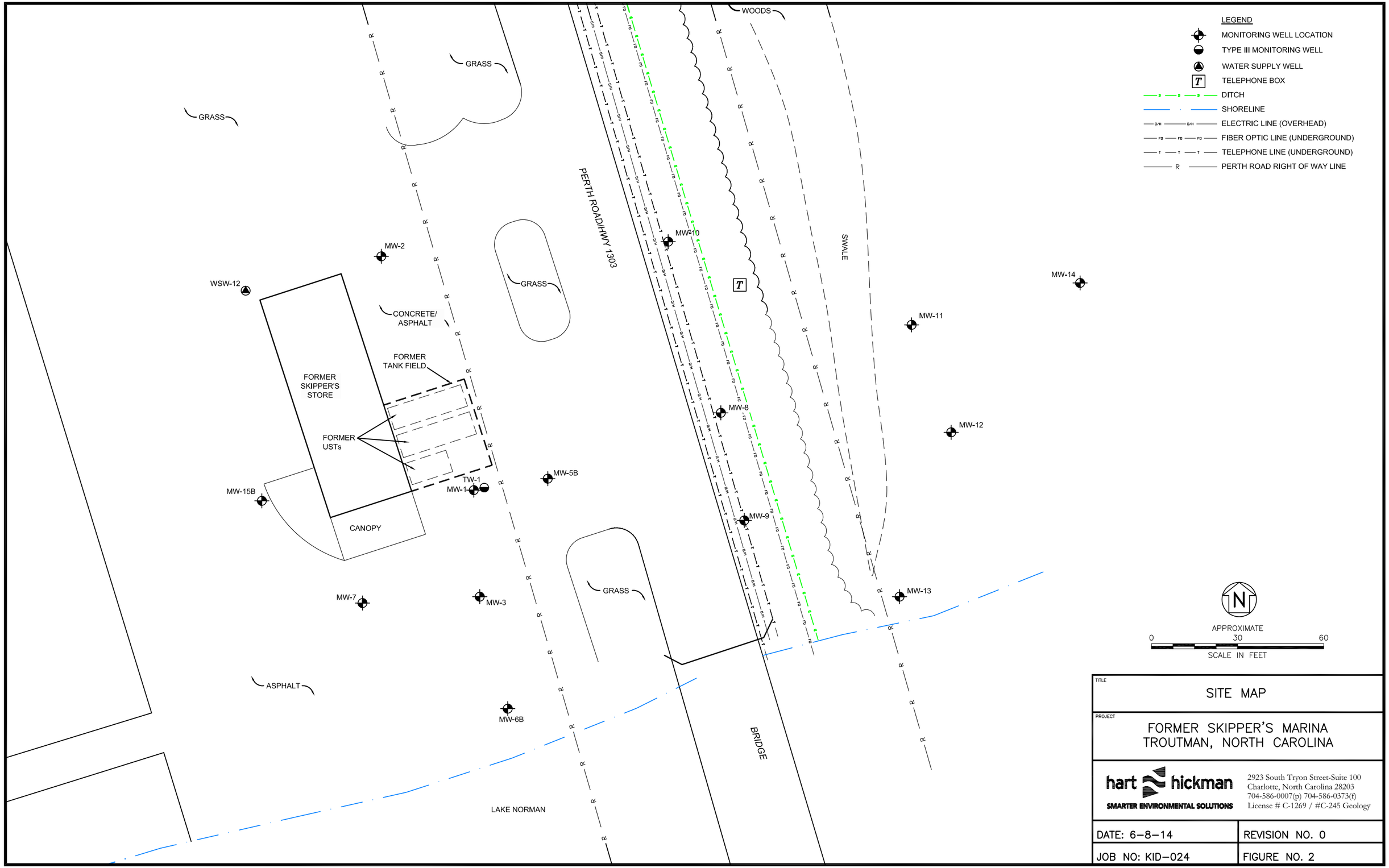
QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	SITE LOCATION MAP
PROJECT	FORMER SKIPPERS MARINA TROUTMAN, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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

DATE:	6-8-14	REVISION NO:	0
JOB NO:	KID-024	FIGURE:	1



TITLE

SITE MAP

PROJECT

FORMER SKIPPER'S MARINA
TROUTMAN, NORTH CAROLINA

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: 6–8–14	REVISION NO. 0
JOB NO: KID–024	FIGURE NO. 2

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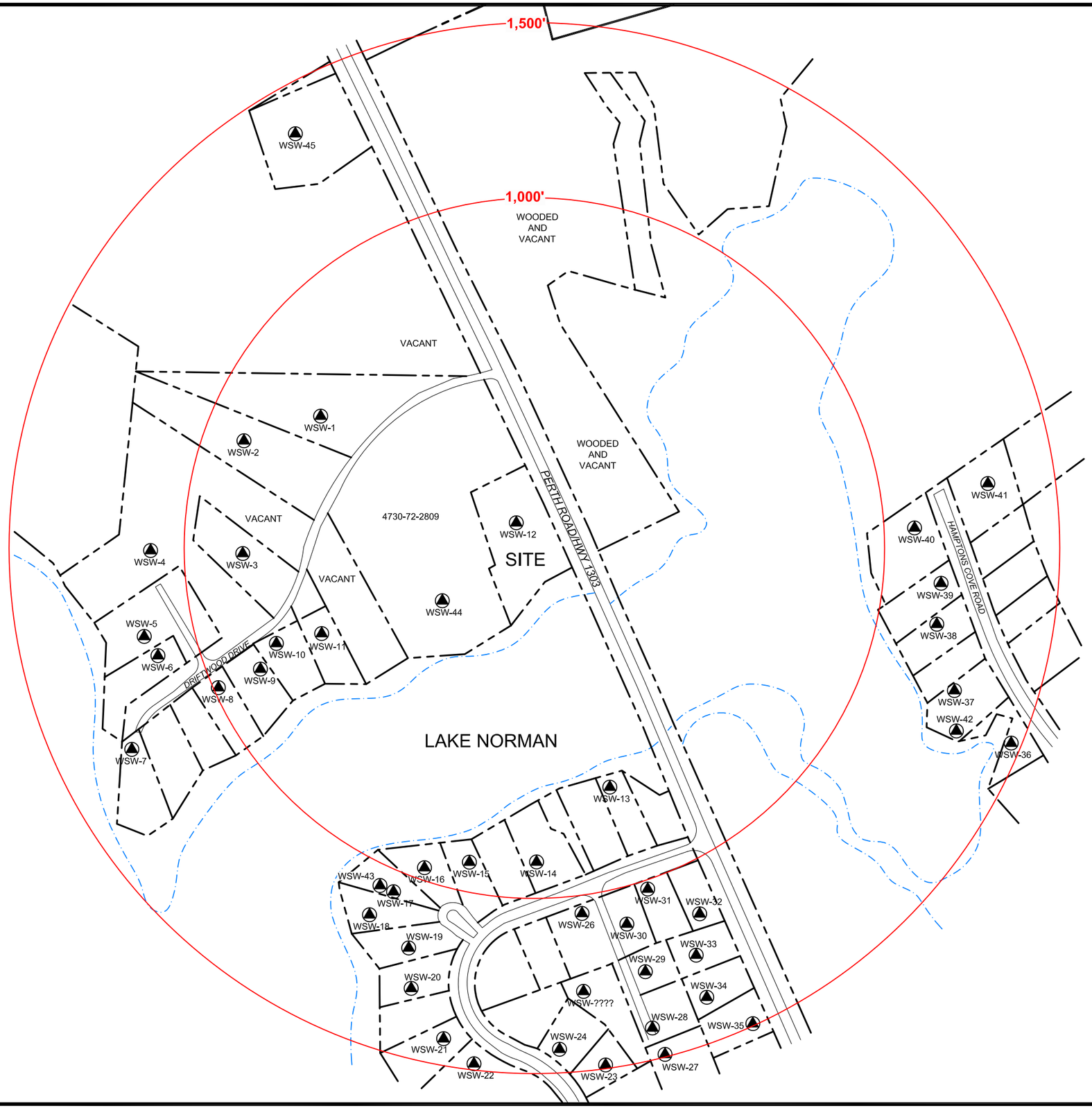

LEGEND

PROPERTY BOUNDARY

EDGE OF WATER

WATER SUPPLY WELL

BASED ON 2001 RECEPTOR SURVEY BY OTHERS AND JULY 2009 UPDATE PERFORMED BY H&H

N

APPROXIMATE

0 300 600

SCALE IN FEET

TITLE

WATER SUPPLY WELL LOCATION MAP

PROJECT

FORMER SKIPPER'S MARINA
TROUTMAN, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
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DATE: 6–8–14	REVISION NO. 0
JOB NO: KID–024	FIGURE NO. 3

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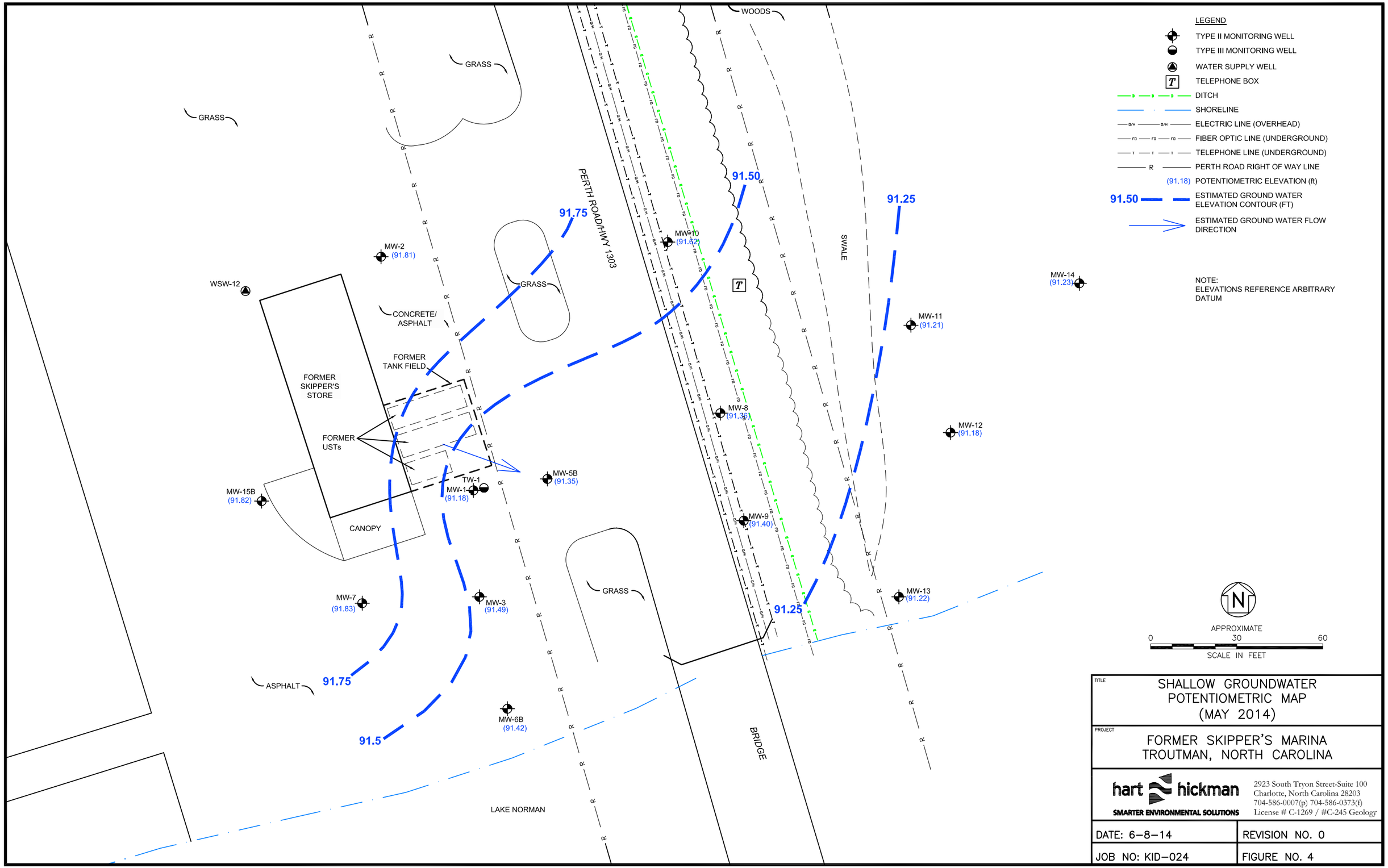

TITLE
SHALLOW GROUNDWATER POTENTIOMETRIC MAP (MAY 2014)

PROJECT
FORMER SKIPPER'S MARINA
TROUTMAN, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
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License # C-1269 / #C-245 Geology

DATE: 6-8-14	REVISION NO. 0
JOB NO: KID-024	FIGURE NO. 4

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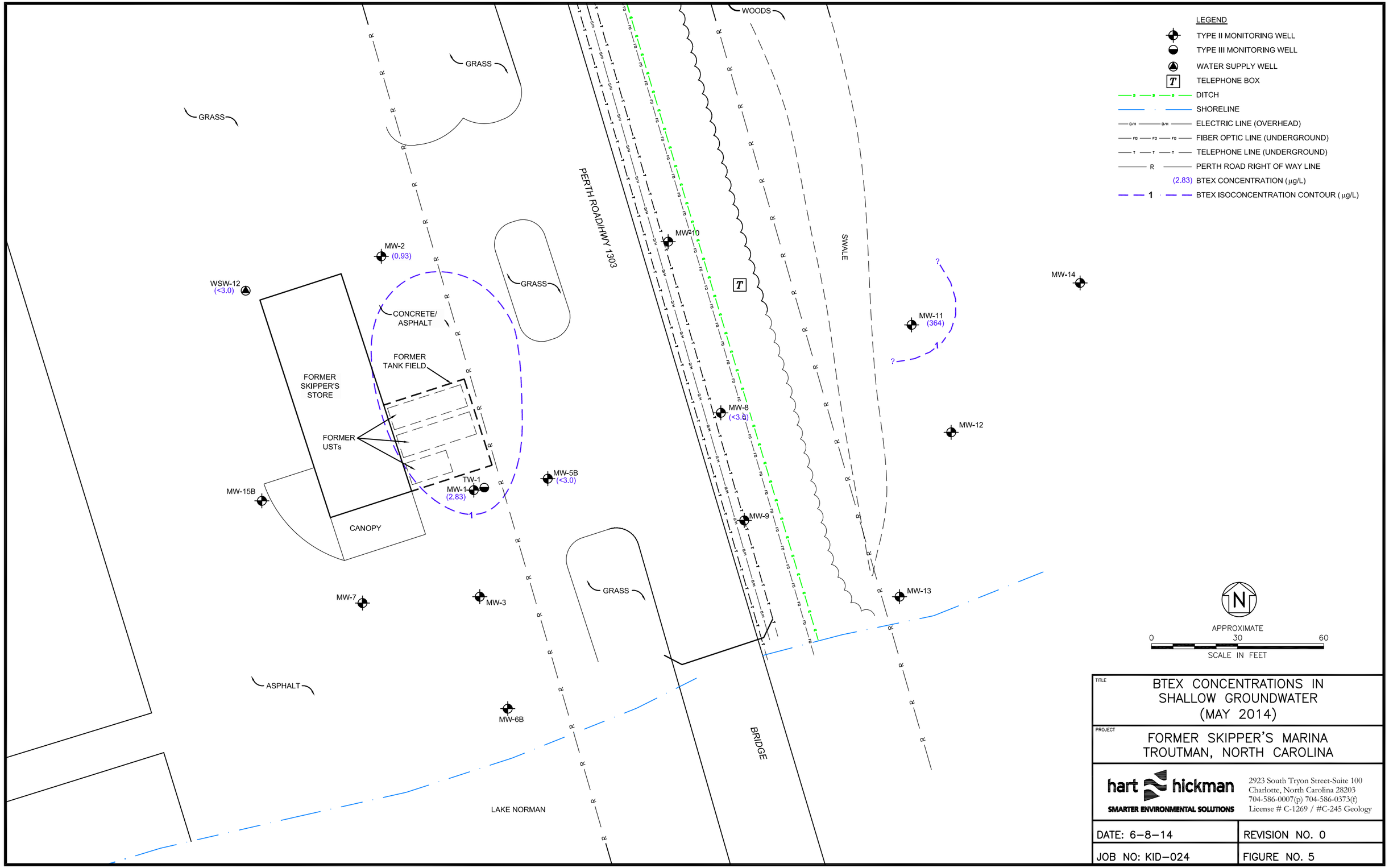

TITLE

BTEX CONCENTRATIONS IN SHALLOW GROUNDWATER (MAY 2014)

PROJECT

FORMER SKIPPER'S MARINA
TROUTMAN, NORTH CAROLINA

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: 6–8–14	REVISION NO. 0
JOB NO: KID–024	FIGURE NO. 5

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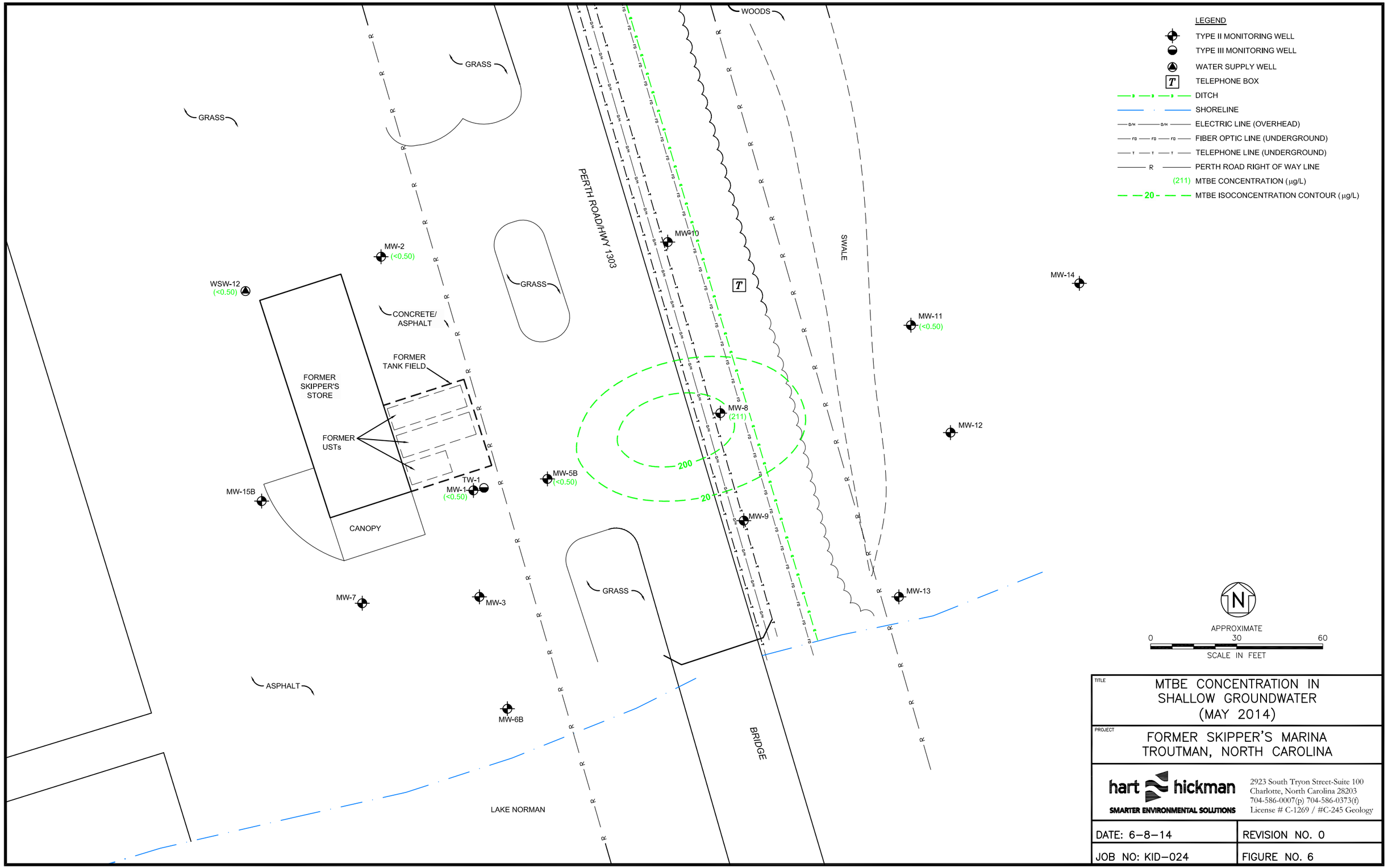

TITLE

MTBE CONCENTRATION IN SHALLOW GROUNDWATER (MAY 2014)

PROJECT

FORMER SKIPPER'S MARINA
TROUTMAN, NORTH CAROLINA

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License # C-1269 / #C-245 Geology

DATE: 6-8-14	REVISION NO. 0
JOB NO: KID-024	FIGURE NO. 6

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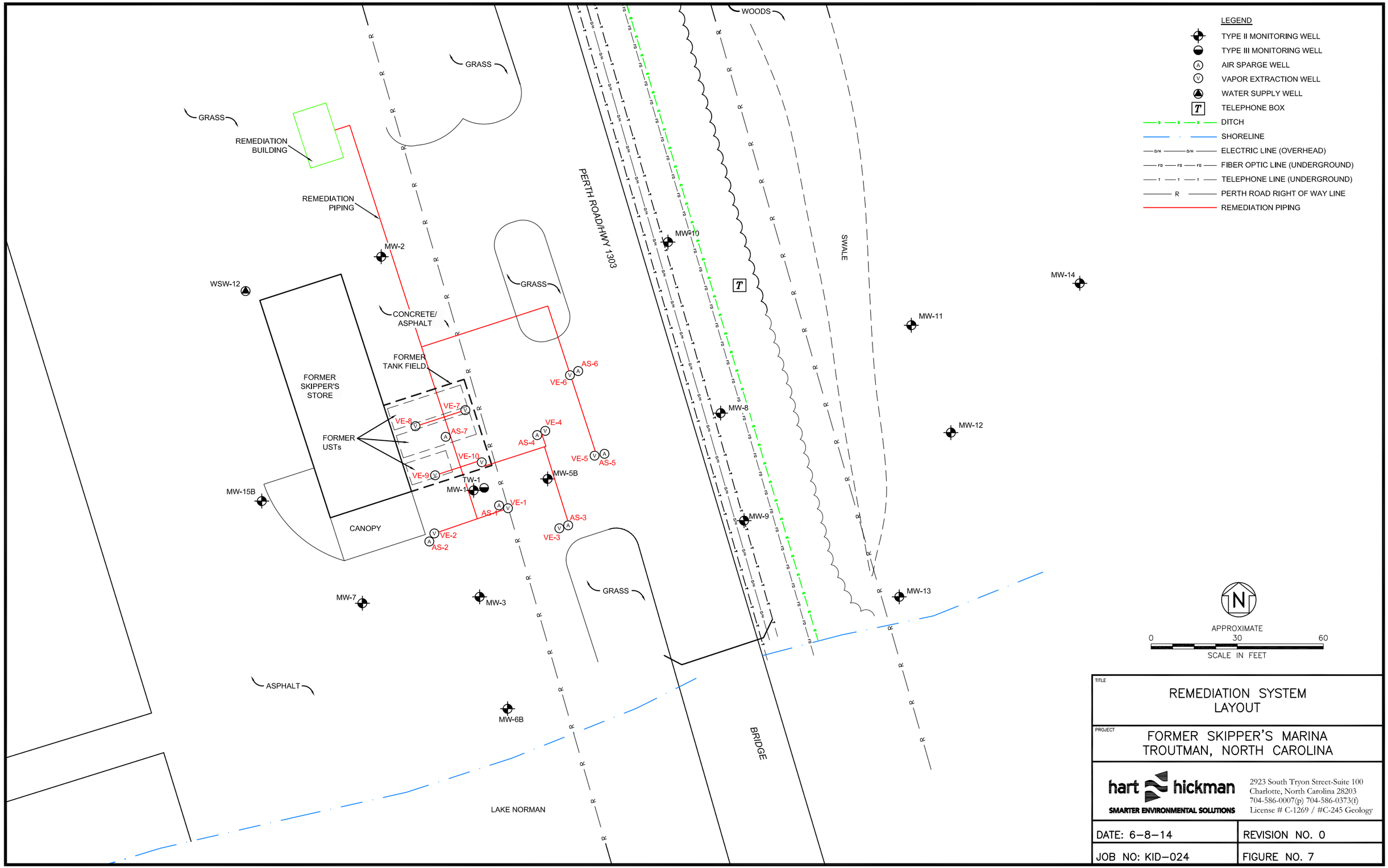

TITLE

REMEDIATION SYSTEM LAYOUT

PROJECT

FORMER SKIPPER'S MARINA
TROUTMAN, NORTH CAROLINA

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: 6–8–14	REVISION NO. 0
JOB NO: KID–024	FIGURE NO. 7

S:\AAA-Master Projects\Kindley - Skippers Marina (KID)\KID-024\Figures\Maps_KID-020.dwg, fig 7 Remediation System Layout, 6/13/2014 2:01:09 PM,

Appendix A

Water Supply Well Inventory

WATER SUPPLY WELL SURVEY
FORMER SKIPPER'S MARINA
TROUTMAN, NORTH CAROLINA
H&H JOB No. KID-024

WELL #	PARCEL NUMBER	DISTANCE FROM SOURCE AREA (ft)	WELL DEPTH	ACTIVE/INACTIVE
WSW - 1	4730-60-8292	~700	Unknown	Active
WSW - 2	4730-63-7131	~900	Unknown	Active
WSW - 3	4730-62-7800	~850	Unknown	Active
WSW - 4	4730-62-4886	~1,100	Unknown	Active
WSW - 5	4730-62-3682	~1,150	Unknown	Active
WSW - 6	4730-62-4408	~1,125	Unknown	Active
WSW - 7	4730-62-3197	~1,250	Unknown	Active
WSW - 8	4730-62-6368	~950	Unknown	Active
WSW - 9	4730-62-7443	~850	Unknown	Active
WSW - 10	4730-62-8540	~800	Unknown	Active
WSW - 11	4730-62-9699	~550	Unknown	Active
WSW - 12	4730-72-5706	~50	Unknown	Active

WATER SUPPLY WELL SURVEY
FORMER SKIPPER'S MARINA
TROUTMAN, NORTH CAROLINA
H&H JOB No. KID-024

WELL #	PARCEL NUMBER	DISTANCE FROM SOURCE AREA (ft)	WELL DEPTH	ACTIVE/INACTIVE
WSW - 13	4730-72-7067	~650	Unknown	Active
WSW - 14	4730-71-5929	~850	Unknown	Active
WSW - 15	4730-71-3932	~850	Unknown	Active
WSW - 16	4370-71-2904	~900	Unknown	Active
WSW - 17	4730-71-1902	~1,020	Unknown	Inactive
WSW - 18	4730-71-0873	~1,075	Unknown	Active
WSW - 19	4730-71-1735	~1,150	Unknown	Active
WSW - 20	4730-71-1666	~1,230	Unknown	Active
WSW - 21	4730-71-1496	~1,350	Unknown	Active
WSW - 22	4730-71-2377	~1,340	Unknown	Active
WSW - 23	4730-71-6471	~1,390	Unknown	Active
WSW - 24	4730-71-5489	~1,360	Unknown	Active

WATER SUPPLY WELL SURVEY
FORMER SKIPPER'S MARINA
TROUTMAN, NORTH CAROLINA
H&H JOB No. KID-024

WELL #	PARCEL NUMBER	DISTANCE FROM SOURCE AREA (ft)	WELL DEPTH	ACTIVE/INACTIVE
WSW - 25	4730-71-7533	~1,200	Unknown	Active
WSW - 26	4730-71-6725	~1,500	Unknown	Active
WSW - 27	4730-71-9473	~1,390	Unknown	Active
WSW - 28	4730-71-9525	~1,340	Unknown	Active
WSW - 29	4730-71-8676	~1,180	Unknown	Active
WSW - 30	4730-71-7891	~1,050	Unknown	Active
WSW - 31	4730-71-9804	~1,020	Unknown	Active
WSW - 32	4730-71-0817	~1,080	Unknown	Active
WSW - 33	4730-81-0733	~1,170	Unknown	Active
WSW - 34	4730-81-0683	~1,300	Unknown	Active
WSW - 35	4730-81-1534	~1,410	Unknown	Active
WSW - 36	4730-82-9206	~1,400	Unknown	Active

WATER SUPPLY WELL SURVEY
FORMER SKIPPER'S MARINA
TROUTMAN, NORTH CAROLINA
H&H JOB No. KID-024

WELL #	PARCEL NUMBER	DISTANCE FROM SOURCE AREA (ft)	WELL DEPTH	ACTIVE/INACTIVE
WSW - 37	4730-82-7349	~1,200	Unknown	Active
WSW - 38	4730-82-6627	~1,020	Unknown	Active
WSW - 39	4730-82-5787	~1,080	Unknown	Active
WSW - 40	4730-82-5846	~1,040	Unknown	Active
WSW - 41	4730-82-7987	~1,260	Unknown	Active
WSW - 42	4730-82-7349	~1,300	Unknown	Active
WSW - 43	4730-71-1902	~1,100	281	Active
WSW - 44	4730-72-2809	~275	230	Actrive
WSW - 45	4730-63-9919	~1,400	Unknown	Active

Note: WSWs are keyed to Figure 3

Appendix B

Laboratory Analytical Data

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 28, 2014

Mr. Steve Libbey
Hart & Hickman
2923 South Tryon Street
Charlotte, NC 28203

RE: Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Dear Mr. Libbey:
Enclosed are the analytical results for sample(s) received by the laboratory on May 15, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #40770
Alabama Certification #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #: Pace
Georgia Certification #: 959
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
Wisconsin Certification #: 999407970
West Virginia Certification #: 382
West Virginia TO-15 Approval
West Virginia DHHR #:9952C

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92201501001	**MW-1**	Water	05/15/14 11:00	05/15/14 13:31
92201501002	**MW-2**	Water	05/15/14 11:35	05/15/14 13:31
92201501003	**MW-5B**	Water	05/15/14 11:50	05/15/14 13:31
92201501004	**MW-8**	Water	05/15/14 12:20	05/15/14 13:31
92201501005	**MW-11**	Water	05/15/14 12:50	05/15/14 13:31
92201501006	**WSW-12**	Water	05/15/14 13:05	05/15/14 13:31
92201501007	**SVE**	Air	05/15/14 13:10	05/15/14 13:31

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SAMPLE ANALYTE COUNT

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92201501001	**MW-1**	SM 6200B	CAH	63	PASI-C
92201501002	**MW-2**	SM 6200B	CAH	63	PASI-C
92201501003	**MW-5B**	SM 6200B	CAH	63	PASI-C
92201501004	**MW-8**	SM 6200B	CAH	63	PASI-C
92201501005	**MW-11**	SM 6200B	CAH	63	PASI-C
92201501006	**WSW-12**	SM 6200B	CAH	63	PASI-C
92201501007	**SVE**	TO-3 Air	JRB	7	PASI-M

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: MW-1 **Lab ID: 92201501001** Collected: 05/15/14 11:00 Received: 05/15/14 13:31 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Benzene	**0.53**	ug/L	0.50	1		05/20/14 17:41	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		05/20/14 17:41	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		05/20/14 17:41	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		05/20/14 17:41	75-27-4	
Bromoform	ND	ug/L	0.50	1		05/20/14 17:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/20/14 17:41	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		05/20/14 17:41	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		05/20/14 17:41	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		05/20/14 17:41	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		05/20/14 17:41	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		05/20/14 17:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/20/14 17:41	75-00-3	
Chloroform	ND	ug/L	0.50	1		05/20/14 17:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/20/14 17:41	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		05/20/14 17:41	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		05/20/14 17:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		05/20/14 17:41	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		05/20/14 17:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		05/20/14 17:41	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		05/20/14 17:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		05/20/14 17:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		05/20/14 17:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		05/20/14 17:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		05/20/14 17:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		05/20/14 17:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		05/20/14 17:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		05/20/14 17:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		05/20/14 17:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		05/20/14 17:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		05/20/14 17:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		05/20/14 17:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		05/20/14 17:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		05/20/14 17:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		05/20/14 17:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		05/20/14 17:41	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		05/20/14 17:41	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		05/20/14 17:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/20/14 17:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		05/20/14 17:41	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		05/20/14 17:41	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		05/20/14 17:41	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/20/14 17:41	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		05/20/14 17:41	103-65-1	
Styrene	ND	ug/L	0.50	1		05/20/14 17:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		05/20/14 17:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		05/20/14 17:41	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		05/20/14 17:41	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: MW-1 **Lab ID: 92201501001** Collected: 05/15/14 11:00 Received: 05/15/14 13:31 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Toluene	ND	ug/L	0.50	1		05/20/14 17:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		05/20/14 17:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		05/20/14 17:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		05/20/14 17:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		05/20/14 17:41	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		05/20/14 17:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/20/14 17:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		05/20/14 17:41	96-18-4	
1,2,4-Trimethylbenzene	**0.76**	ug/L	0.50	1		05/20/14 17:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		05/20/14 17:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/20/14 17:41	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		05/20/14 17:41	179601-23-1	
o-Xylene	**2.3**	ug/L	0.50	1		05/20/14 17:41	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		05/20/14 17:41	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		05/20/14 17:41	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		05/20/14 17:41	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: MW-2 **Lab ID: 92201501002** Collected: 05/15/14 11:35 Received: 05/15/14 13:31 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	0.50	1		05/20/14 17:58	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		05/20/14 17:58	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		05/20/14 17:58	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		05/20/14 17:58	75-27-4	
Bromoform	ND	ug/L	0.50	1		05/20/14 17:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/20/14 17:58	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		05/20/14 17:58	104-51-8	
sec-Butylbenzene	**3.3**	ug/L	0.50	1		05/20/14 17:58	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		05/20/14 17:58	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		05/20/14 17:58	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		05/20/14 17:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/20/14 17:58	75-00-3	
Chloroform	ND	ug/L	0.50	1		05/20/14 17:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/20/14 17:58	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		05/20/14 17:58	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		05/20/14 17:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		05/20/14 17:58	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		05/20/14 17:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		05/20/14 17:58	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		05/20/14 17:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		05/20/14 17:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		05/20/14 17:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		05/20/14 17:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		05/20/14 17:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		05/20/14 17:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		05/20/14 17:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		05/20/14 17:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		05/20/14 17:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		05/20/14 17:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		05/20/14 17:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		05/20/14 17:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		05/20/14 17:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		05/20/14 17:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		05/20/14 17:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		05/20/14 17:58	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		05/20/14 17:58	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		05/20/14 17:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/20/14 17:58	87-68-3	
Isopropylbenzene (Cumene)	**1.4**	ug/L	0.50	1		05/20/14 17:58	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		05/20/14 17:58	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		05/20/14 17:58	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/20/14 17:58	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		05/20/14 17:58	103-65-1	
Styrene	ND	ug/L	0.50	1		05/20/14 17:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		05/20/14 17:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		05/20/14 17:58	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		05/20/14 17:58	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: MW-2 **Lab ID: 92201501002** Collected: 05/15/14 11:35 Received: 05/15/14 13:31 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Toluene	ND	ug/L	0.50	1		05/20/14 17:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		05/20/14 17:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		05/20/14 17:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		05/20/14 17:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		05/20/14 17:58	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		05/20/14 17:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/20/14 17:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		05/20/14 17:58	96-18-4	
1,2,4-Trimethylbenzene	**0.66**	ug/L	0.50	1		05/20/14 17:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		05/20/14 17:58	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/20/14 17:58	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		05/20/14 17:58	179601-23-1	
o-Xylene	**0.93**	ug/L	0.50	1		05/20/14 17:58	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		05/20/14 17:58	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		05/20/14 17:58	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		05/20/14 17:58	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: MW-5B **Lab ID: 92201501003** Collected: 05/15/14 11:50 Received: 05/15/14 13:31 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	0.50	1		05/20/14 18:15	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		05/20/14 18:15	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		05/20/14 18:15	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		05/20/14 18:15	75-27-4	
Bromoform	ND	ug/L	0.50	1		05/20/14 18:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/20/14 18:15	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		05/20/14 18:15	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		05/20/14 18:15	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		05/20/14 18:15	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		05/20/14 18:15	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		05/20/14 18:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/20/14 18:15	75-00-3	
Chloroform	ND	ug/L	0.50	1		05/20/14 18:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/20/14 18:15	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		05/20/14 18:15	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		05/20/14 18:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		05/20/14 18:15	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		05/20/14 18:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		05/20/14 18:15	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		05/20/14 18:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		05/20/14 18:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		05/20/14 18:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		05/20/14 18:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		05/20/14 18:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		05/20/14 18:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		05/20/14 18:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		05/20/14 18:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		05/20/14 18:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		05/20/14 18:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		05/20/14 18:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		05/20/14 18:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		05/20/14 18:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		05/20/14 18:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		05/20/14 18:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		05/20/14 18:15	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		05/20/14 18:15	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		05/20/14 18:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/20/14 18:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		05/20/14 18:15	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		05/20/14 18:15	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		05/20/14 18:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/20/14 18:15	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		05/20/14 18:15	103-65-1	
Styrene	ND	ug/L	0.50	1		05/20/14 18:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		05/20/14 18:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		05/20/14 18:15	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		05/20/14 18:15	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: MW-5B **Lab ID: 92201501003** Collected: 05/15/14 11:50 Received: 05/15/14 13:31 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Toluene	ND	ug/L	0.50	1		05/20/14 18:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		05/20/14 18:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		05/20/14 18:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		05/20/14 18:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		05/20/14 18:15	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		05/20/14 18:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/20/14 18:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		05/20/14 18:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		05/20/14 18:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		05/20/14 18:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/20/14 18:15	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		05/20/14 18:15	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		05/20/14 18:15	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		05/20/14 18:15	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		05/20/14 18:15	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		05/20/14 18:15	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: MW-8 **Lab ID: 92201501004** Collected: 05/15/14 12:20 Received: 05/15/14 13:31 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	1.0	2		05/20/14 21:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	2		05/20/14 21:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	2		05/20/14 21:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	2		05/20/14 21:50	75-27-4	
Bromoform	ND	ug/L	1.0	2		05/20/14 21:50	75-25-2	
Bromomethane	ND	ug/L	10.0	2		05/20/14 21:50	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	2		05/20/14 21:50	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	2		05/20/14 21:50	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	2		05/20/14 21:50	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	2		05/20/14 21:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	2		05/20/14 21:50	108-90-7	
Chloroethane	ND	ug/L	2.0	2		05/20/14 21:50	75-00-3	
Chloroform	ND	ug/L	1.0	2		05/20/14 21:50	67-66-3	
Chloromethane	ND	ug/L	2.0	2		05/20/14 21:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	2		05/20/14 21:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	2		05/20/14 21:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2		05/20/14 21:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	2		05/20/14 21:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	2		05/20/14 21:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	2		05/20/14 21:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	2		05/20/14 21:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	2		05/20/14 21:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	2		05/20/14 21:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	2		05/20/14 21:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	2		05/20/14 21:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	2		05/20/14 21:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	2		05/20/14 21:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	2		05/20/14 21:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	2		05/20/14 21:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	2		05/20/14 21:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	2		05/20/14 21:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	2		05/20/14 21:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	2		05/20/14 21:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	2		05/20/14 21:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	2		05/20/14 21:50	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	2		05/20/14 21:50	108-20-3	
Ethylbenzene	ND	ug/L	1.0	2		05/20/14 21:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	2		05/20/14 21:50	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	2		05/20/14 21:50	98-82-8	
Methylene Chloride	ND	ug/L	4.0	2		05/20/14 21:50	75-09-2	
Methyl-tert-butyl ether	**211**	ug/L	1.0	2		05/20/14 21:50	1634-04-4	
Naphthalene	ND	ug/L	4.0	2		05/20/14 21:50	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	2		05/20/14 21:50	103-65-1	
Styrene	ND	ug/L	1.0	2		05/20/14 21:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	2		05/20/14 21:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	2		05/20/14 21:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	2		05/20/14 21:50	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: MW-8 **Lab ID: 92201501004** Collected: 05/15/14 12:20 Received: 05/15/14 13:31 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Toluene	ND	ug/L	1.0	2		05/20/14 21:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	4.0	2		05/20/14 21:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	2		05/20/14 21:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	2		05/20/14 21:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	2		05/20/14 21:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	2		05/20/14 21:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		05/20/14 21:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	2		05/20/14 21:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	2		05/20/14 21:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	2		05/20/14 21:50	108-67-8	
Vinyl chloride	ND	ug/L	2.0	2		05/20/14 21:50	75-01-4	
m&p-Xylene	ND	ug/L	2.0	2		05/20/14 21:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	2		05/20/14 21:50	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	2		05/20/14 21:50	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	2		05/20/14 21:50	460-00-4	
Toluene-d8 (S)	101	%	70-130	2		05/20/14 21:50	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: MW-11 **Lab ID: 92201501005** Collected: 05/15/14 12:50 Received: 05/15/14 13:31 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Benzene	**364**	ug/L	1.0	2		05/20/14 21:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	2		05/20/14 21:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	2		05/20/14 21:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	2		05/20/14 21:33	75-27-4	
Bromoform	ND	ug/L	1.0	2		05/20/14 21:33	75-25-2	
Bromomethane	ND	ug/L	10.0	2		05/20/14 21:33	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	2		05/20/14 21:33	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	2		05/20/14 21:33	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	2		05/20/14 21:33	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	2		05/20/14 21:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	2		05/20/14 21:33	108-90-7	
Chloroethane	ND	ug/L	2.0	2		05/20/14 21:33	75-00-3	
Chloroform	ND	ug/L	1.0	2		05/20/14 21:33	67-66-3	
Chloromethane	ND	ug/L	2.0	2		05/20/14 21:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	2		05/20/14 21:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	2		05/20/14 21:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2		05/20/14 21:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	2		05/20/14 21:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	2		05/20/14 21:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	2		05/20/14 21:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	2		05/20/14 21:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	2		05/20/14 21:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	2		05/20/14 21:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	2		05/20/14 21:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	2		05/20/14 21:33	75-34-3	
1,2-Dichloroethane	**76.1**	ug/L	1.0	2		05/20/14 21:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	2		05/20/14 21:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	2		05/20/14 21:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	2		05/20/14 21:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	2		05/20/14 21:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	2		05/20/14 21:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	2		05/20/14 21:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	2		05/20/14 21:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	2		05/20/14 21:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	2		05/20/14 21:33	10061-02-6	
Diisopropyl ether	**4.6**	ug/L	1.0	2		05/20/14 21:33	108-20-3	
Ethylbenzene	ND	ug/L	1.0	2		05/20/14 21:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	2		05/20/14 21:33	87-68-3	
Isopropylbenzene (Cumene)	**1.1**	ug/L	1.0	2		05/20/14 21:33	98-82-8	
Methylene Chloride	**8.1**	ug/L	4.0	2		05/20/14 21:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	2		05/20/14 21:33	1634-04-4	
Naphthalene	ND	ug/L	4.0	2		05/20/14 21:33	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	2		05/20/14 21:33	103-65-1	
Styrene	ND	ug/L	1.0	2		05/20/14 21:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	2		05/20/14 21:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	2		05/20/14 21:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	2		05/20/14 21:33	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: MW-11 **Lab ID: 92201501005** Collected: 05/15/14 12:50 Received: 05/15/14 13:31 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Toluene	ND	ug/L	1.0	2		05/20/14 21:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	4.0	2		05/20/14 21:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	2		05/20/14 21:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	2		05/20/14 21:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	2		05/20/14 21:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	2		05/20/14 21:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		05/20/14 21:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	2		05/20/14 21:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	2		05/20/14 21:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	2		05/20/14 21:33	108-67-8	
Vinyl chloride	ND	ug/L	2.0	2		05/20/14 21:33	75-01-4	
m&p-Xylene	ND	ug/L	2.0	2		05/20/14 21:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	2		05/20/14 21:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	2		05/20/14 21:33	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	2		05/20/14 21:33	460-00-4	
Toluene-d8 (S)	102	%	70-130	2		05/20/14 21:33	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: WSW-12 **Lab ID: 92201501006** Collected: 05/15/14 13:05 Received: 05/15/14 13:31 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	0.50	1		05/20/14 18:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		05/20/14 18:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		05/20/14 18:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		05/20/14 18:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		05/20/14 18:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/20/14 18:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		05/20/14 18:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		05/20/14 18:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		05/20/14 18:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		05/20/14 18:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		05/20/14 18:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/20/14 18:31	75-00-3	
Chloroform	ND	ug/L	0.50	1		05/20/14 18:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/20/14 18:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		05/20/14 18:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		05/20/14 18:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		05/20/14 18:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		05/20/14 18:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		05/20/14 18:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		05/20/14 18:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		05/20/14 18:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		05/20/14 18:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		05/20/14 18:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		05/20/14 18:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		05/20/14 18:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		05/20/14 18:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		05/20/14 18:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		05/20/14 18:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		05/20/14 18:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		05/20/14 18:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		05/20/14 18:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		05/20/14 18:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		05/20/14 18:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		05/20/14 18:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		05/20/14 18:31	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		05/20/14 18:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		05/20/14 18:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/20/14 18:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		05/20/14 18:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		05/20/14 18:31	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		05/20/14 18:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/20/14 18:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		05/20/14 18:31	103-65-1	
Styrene	ND	ug/L	0.50	1		05/20/14 18:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		05/20/14 18:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		05/20/14 18:31	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		05/20/14 18:31	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: WSW-12 **Lab ID: 92201501006** Collected: 05/15/14 13:05 Received: 05/15/14 13:31 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Toluene	ND	ug/L	0.50	1		05/20/14 18:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		05/20/14 18:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		05/20/14 18:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		05/20/14 18:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		05/20/14 18:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		05/20/14 18:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/20/14 18:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		05/20/14 18:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		05/20/14 18:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		05/20/14 18:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/20/14 18:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		05/20/14 18:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		05/20/14 18:31	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		05/20/14 18:31	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		05/20/14 18:31	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		05/20/14 18:31	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Sample: SVE **Lab ID: 92201501007** Collected: 05/15/14 13:10 Received: 05/15/14 13:31 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG	Analytical Method: TO-3 Air							
Benzene	ND	ppmv	0.10	1		05/16/14 16:22	71-43-2	
Ethylbenzene	ND	ppmv	0.10	1		05/16/14 16:22	100-41-4	
Methyl-tert-butyl ether	ND	ppmv	0.10	1		05/16/14 16:22	1634-04-4	
THC as Gas	ND	ppmv	1.0	1		05/16/14 16:22		
Toluene	ND	ppmv	0.10	1		05/16/14 16:22	108-88-3	
m&p-Xylene	ND	ppmv	0.20	1		05/16/14 16:22	179601-23-1	
o-Xylene	ND	ppmv	0.10	1		05/16/14 16:22	95-47-6	

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QUALITY CONTROL DATA

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

QC Batch: AIR/20274
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR BTEX BAG
Associated Lab Samples: 92201501007

METHOD BLANK: 1683344
Matrix: Air
Associated Lab Samples: 92201501007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.10	05/16/14 15:17	
Ethylbenzene	ppmv	ND	0.10	05/16/14 15:17	
m&p-Xylene	ppmv	ND	0.20	05/16/14 15:17	
Methyl-tert-butyl ether	ppmv	ND	0.10	05/16/14 15:17	
o-Xylene	ppmv	ND	0.10	05/16/14 15:17	
THC as Gas	ppmv	ND	1.0	05/16/14 15:17	
Toluene	ppmv	ND	0.10	05/16/14 15:17	

LABORATORY CONTROL SAMPLE & LCSD: 1683345 1683346

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ppmv	1	0.97	0.93	97	93	70-130	4	30	
Ethylbenzene	ppmv	1	0.97	0.96	97	96	70-130	.9	30	
m&p-Xylene	ppmv	2	1.9	1.8	97	92	70-130	6	30	
Methyl-tert-butyl ether	ppmv	1	0.95	0.94	95	94	70-130	1	30	
o-Xylene	ppmv	1	0.99	0.92	99	92	70-130	7	30	
THC as Gas	ppmv	10	9.9	9.6	99	96	70-130	2	30	
Toluene	ppmv	1	0.96	0.91	96	91	70-130	5	30	

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QUALITY CONTROL DATA

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

QC Batch: MSV/26851 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Associated Lab Samples: 92201501001, 92201501002, 92201501003, 92201501004, 92201501005, 92201501006

METHOD BLANK: 1201636 Matrix: Water
Associated Lab Samples: 92201501001, 92201501002, 92201501003, 92201501004, 92201501005, 92201501006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	05/20/14 17:25	
1,1,1-Trichloroethane	ug/L	ND	0.50	05/20/14 17:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	05/20/14 17:25	
1,1,2-Trichloroethane	ug/L	ND	0.50	05/20/14 17:25	
1,1-Dichloroethane	ug/L	ND	0.50	05/20/14 17:25	
1,1-Dichloroethene	ug/L	ND	0.50	05/20/14 17:25	
1,1-Dichloropropene	ug/L	ND	0.50	05/20/14 17:25	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	05/20/14 17:25	
1,2,3-Trichloropropane	ug/L	ND	0.50	05/20/14 17:25	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	05/20/14 17:25	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	05/20/14 17:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	05/20/14 17:25	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	05/20/14 17:25	
1,2-Dichlorobenzene	ug/L	ND	0.50	05/20/14 17:25	
1,2-Dichloroethane	ug/L	ND	0.50	05/20/14 17:25	
1,2-Dichloropropane	ug/L	ND	0.50	05/20/14 17:25	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	05/20/14 17:25	
1,3-Dichlorobenzene	ug/L	ND	0.50	05/20/14 17:25	
1,3-Dichloropropane	ug/L	ND	0.50	05/20/14 17:25	
1,4-Dichlorobenzene	ug/L	ND	0.50	05/20/14 17:25	
2,2-Dichloropropane	ug/L	ND	0.50	05/20/14 17:25	
2-Chlorotoluene	ug/L	ND	0.50	05/20/14 17:25	
4-Chlorotoluene	ug/L	ND	0.50	05/20/14 17:25	
Benzene	ug/L	ND	0.50	05/20/14 17:25	
Bromobenzene	ug/L	ND	0.50	05/20/14 17:25	
Bromochloromethane	ug/L	ND	0.50	05/20/14 17:25	
Bromodichloromethane	ug/L	ND	0.50	05/20/14 17:25	
Bromoform	ug/L	ND	0.50	05/20/14 17:25	
Bromomethane	ug/L	ND	5.0	05/20/14 17:25	
Carbon tetrachloride	ug/L	ND	0.50	05/20/14 17:25	
Chlorobenzene	ug/L	ND	0.50	05/20/14 17:25	
Chloroethane	ug/L	ND	1.0	05/20/14 17:25	
Chloroform	ug/L	ND	0.50	05/20/14 17:25	
Chloromethane	ug/L	ND	1.0	05/20/14 17:25	
cis-1,2-Dichloroethene	ug/L	ND	0.50	05/20/14 17:25	
cis-1,3-Dichloropropene	ug/L	ND	0.50	05/20/14 17:25	
Dibromochloromethane	ug/L	ND	0.50	05/20/14 17:25	
Dibromomethane	ug/L	ND	0.50	05/20/14 17:25	
Dichlorodifluoromethane	ug/L	ND	0.50	05/20/14 17:25	
Diisopropyl ether	ug/L	ND	0.50	05/20/14 17:25	
Ethylbenzene	ug/L	ND	0.50	05/20/14 17:25	

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QUALITY CONTROL DATA

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

METHOD BLANK: 1201636 Matrix: Water
Associated Lab Samples: 92201501001, 92201501002, 92201501003, 92201501004, 92201501005, 92201501006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	2.0	05/20/14 17:25	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	05/20/14 17:25	
m&p-Xylene	ug/L	ND	1.0	05/20/14 17:25	
Methyl-tert-butyl ether	ug/L	ND	0.50	05/20/14 17:25	
Methylene Chloride	ug/L	ND	2.0	05/20/14 17:25	
n-Butylbenzene	ug/L	ND	0.50	05/20/14 17:25	
n-Propylbenzene	ug/L	ND	0.50	05/20/14 17:25	
Naphthalene	ug/L	ND	2.0	05/20/14 17:25	
o-Xylene	ug/L	ND	0.50	05/20/14 17:25	
sec-Butylbenzene	ug/L	ND	0.50	05/20/14 17:25	
Styrene	ug/L	ND	0.50	05/20/14 17:25	
tert-Butylbenzene	ug/L	ND	0.50	05/20/14 17:25	
Tetrachloroethene	ug/L	ND	0.50	05/20/14 17:25	
Toluene	ug/L	ND	0.50	05/20/14 17:25	
trans-1,2-Dichloroethene	ug/L	ND	0.50	05/20/14 17:25	
trans-1,3-Dichloropropene	ug/L	ND	0.50	05/20/14 17:25	
Trichloroethene	ug/L	ND	0.50	05/20/14 17:25	
Trichlorofluoromethane	ug/L	ND	1.0	05/20/14 17:25	
Vinyl chloride	ug/L	ND	1.0	05/20/14 17:25	
1,2-Dichloroethane-d4 (S)	%	96	70-130	05/20/14 17:25	
4-Bromofluorobenzene (S)	%	96	70-130	05/20/14 17:25	
Toluene-d8 (S)	%	100	70-130	05/20/14 17:25	

LABORATORY CONTROL SAMPLE: 1201637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	60.8	122	60-140	
1,1,1-Trichloroethane	ug/L	50	56.6	113	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	56.7	113	60-140	
1,1,2-Trichloroethane	ug/L	50	56.8	114	60-140	
1,1-Dichloroethane	ug/L	50	54.0	108	60-140	
1,1-Dichloroethene	ug/L	50	55.8	112	60-140	
1,1-Dichloropropene	ug/L	50	59.4	119	60-140	
1,2,3-Trichlorobenzene	ug/L	50	59.1	118	60-140	
1,2,3-Trichloropropane	ug/L	50	53.9	108	60-140	
1,2,4-Trichlorobenzene	ug/L	50	59.2	118	60-140	
1,2,4-Trimethylbenzene	ug/L	50	58.3	117	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.1	106	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	57.0	114	60-140	
1,2-Dichlorobenzene	ug/L	50	56.2	112	60-140	
1,2-Dichloroethane	ug/L	50	55.0	110	60-140	
1,2-Dichloropropane	ug/L	50	54.7	109	60-140	
1,3,5-Trimethylbenzene	ug/L	50	55.7	111	60-140	
1,3-Dichlorobenzene	ug/L	50	54.9	110	60-140	

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QUALITY CONTROL DATA

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

LABORATORY CONTROL SAMPLE: 1201637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	56.6	113	60-140	
1,4-Dichlorobenzene	ug/L	50	54.4	109	60-140	
2,2-Dichloropropane	ug/L	50	57.4	115	60-140	
2-Chlorotoluene	ug/L	50	53.8	108	60-140	
4-Chlorotoluene	ug/L	50	55.0	110	60-140	
Benzene	ug/L	50	60.3	121	60-140	
Bromobenzene	ug/L	50	54.5	109	60-140	
Bromochloromethane	ug/L	50	60.0	120	60-140	
Bromodichloromethane	ug/L	50	56.9	114	60-140	
Bromoform	ug/L	50	50.3	101	60-140	
Bromomethane	ug/L	50	57.6	115	60-140	
Carbon tetrachloride	ug/L	50	60.2	120	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	51.5	103	60-140	
Chloroform	ug/L	50	54.1	108	60-140	
Chloromethane	ug/L	50	47.4	95	60-140	
cis-1,2-Dichloroethene	ug/L	50	55.2	110	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.0	104	60-140	
Dibromochloromethane	ug/L	50	48.8	98	60-140	
Dibromomethane	ug/L	50	58.6	117	60-140	
Dichlorodifluoromethane	ug/L	50	59.3	119	60-140	
Diisopropyl ether	ug/L	50	46.5	93	60-140	
Ethylbenzene	ug/L	50	54.4	109	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.9	114	60-140	
Isopropylbenzene (Cumene)	ug/L	50	58.7	117	60-140	
m&p-Xylene	ug/L	100	110	110	60-140	
Methyl-tert-butyl ether	ug/L	50	47.1	94	60-140	
Methylene Chloride	ug/L	50	54.5	109	60-140	
n-Butylbenzene	ug/L	50	58.5	117	60-140	
n-Propylbenzene	ug/L	50	55.1	110	60-140	
Naphthalene	ug/L	50	60.5	121	60-140	
o-Xylene	ug/L	50	57.0	114	60-140	
sec-Butylbenzene	ug/L	50	56.7	113	60-140	
Styrene	ug/L	50	62.4	125	60-140	
tert-Butylbenzene	ug/L	50	56.9	114	60-140	
Tetrachloroethene	ug/L	50	58.8	118	60-140	
Toluene	ug/L	50	55.1	110	60-140	
trans-1,2-Dichloroethene	ug/L	50	55.8	112	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.4	101	60-140	
Trichloroethene	ug/L	50	59.9	120	60-140	
Trichlorofluoromethane	ug/L	50	50.0	100	60-140	
Vinyl chloride	ug/L	50	65.8	132	60-140	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1201638 1201639

Parameter	Units	92201501006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.0	23.5	110	118	60-140	7	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.4	23.2	112	116	60-140	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.2	22.9	111	115	60-140	3	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.5	23.3	108	116	60-140	8	30	
1,1-Dichloroethane	ug/L	ND	20	20	20.9	22.1	104	111	60-140	6	30	
1,1-Dichloroethene	ug/L	ND	20	20	22.5	22.9	113	114	60-140	1	30	
1,1-Dichloropropene	ug/L	ND	20	20	23.7	24.2	119	121	60-140	2	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.3	21.4	102	107	60-140	5	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.6	22.4	108	112	60-140	4	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.2	21.0	101	105	60-140	4	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.7	22.8	109	114	60-140	5	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	18.8	19.9	94	99	60-140	6	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.8	22.7	109	114	60-140	4	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.0	22.0	105	110	60-140	5	30	
1,2-Dichloroethane	ug/L	ND	20	20	21.5	22.5	108	113	60-140	5	30	
1,2-Dichloropropane	ug/L	ND	20	20	21.3	22.5	106	113	60-140	6	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.3	22.3	107	112	60-140	4	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	21.1	102	105	60-140	4	30	
1,3-Dichloropropane	ug/L	ND	20	20	21.8	23.4	109	117	60-140	7	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	21.5	102	108	60-140	6	30	
2,2-Dichloropropane	ug/L	ND	20	20	20.3	21.7	101	108	60-140	7	30	
2-Chlorotoluene	ug/L	ND	20	20	20.9	21.8	105	109	60-140	4	30	
4-Chlorotoluene	ug/L	ND	20	20	20.6	21.2	103	106	60-140	3	30	
Benzene	ug/L	ND	20	20	23.7	24.7	119	124	60-140	4	30	
Bromobenzene	ug/L	ND	20	20	21.1	21.6	106	108	60-140	2	30	
Bromochloromethane	ug/L	ND	20	20	23.0	24.2	115	121	60-140	5	30	
Bromodichloromethane	ug/L	ND	20	20	21.1	22.2	106	111	60-140	5	30	
Bromoform	ug/L	ND	20	20	17.0	18.2	85	91	60-140	7	30	
Bromomethane	ug/L	ND	20	20	18.7	20.6	94	103	60-140	10	30	
Carbon tetrachloride	ug/L	ND	20	20	22.2	24.3	111	122	60-140	9	30	
Chlorobenzene	ug/L	ND	20	20	20.7	22.2	103	111	60-140	7	30	
Chloroethane	ug/L	ND	20	20	19.9	21.6	99	108	60-140	8	30	
Chloroform	ug/L	ND	20	20	21.1	22.2	106	111	60-140	5	30	
Chloromethane	ug/L	ND	20	20	18.3	18.3	91	92	60-140	0	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.6	22.2	108	111	60-140	3	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.2	19.7	91	99	60-140	8	30	
Dibromochloromethane	ug/L	ND	20	20	17.7	19.2	88	96	60-140	8	30	
Dibromomethane	ug/L	ND	20	20	22.4	22.9	112	115	60-140	2	30	
Dichlorodifluoromethane	ug/L	ND	20	20	25.3	25.6	127	128	60-140	1	30	
Diisopropyl ether	ug/L	ND	20	20	17.7	18.5	89	92	60-140	4	30	
Ethylbenzene	ug/L	ND	20	20	21.3	22.8	107	114	60-140	7	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.6	21.4	103	107	60-140	4	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.9	24.1	114	121	60-140	5	30	
m&p-Xylene	ug/L	ND	40	40	43.8	46.7	109	117	60-140	6	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.0	18.5	90	92	60-140	2	30	
Methylene Chloride	ug/L	ND	20	20	19.1	20.3	96	102	60-140	6	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1201638 1201639

Parameter	Units	92201501006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	20.8	22.4	104	112	60-140	8	30	
n-Propylbenzene	ug/L	ND	20	20	21.2	22.3	106	112	60-140	5	30	
Naphthalene	ug/L	ND	20	20	21.0	22.1	105	110	60-140	5	30	
o-Xylene	ug/L	ND	20	20	22.2	23.2	111	116	60-140	5	30	
sec-Butylbenzene	ug/L	ND	20	20	21.4	22.6	107	113	60-140	5	30	
Styrene	ug/L	ND	20	20	23.6	24.4	118	122	60-140	4	30	
tert-Butylbenzene	ug/L	ND	20	20	21.5	22.6	108	113	60-140	5	30	
Tetrachloroethene	ug/L	ND	20	20	23.0	24.2	113	119	60-140	5	30	
Toluene	ug/L	ND	20	20	21.7	22.8	108	114	60-140	5	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	22.3	110	111	60-140	2	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.9	19.7	90	98	60-140	9	30	
Trichloroethene	ug/L	ND	20	20	23.3	24.6	117	123	60-140	6	30	
Trichlorofluoromethane	ug/L	ND	20	20	21.5	22.3	107	111	60-140	4	30	
Vinyl chloride	ug/L	ND	20	20	26.7	27.4	134	137	60-140	2	30	
1,2-Dichloroethane-d4 (S)	%						95	95	70-130			
4-Bromofluorobenzene (S)	%						102	101	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORMER SKIPPER'S MARINA
Pace Project No.: 92201501

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92201501007	**SVE**	TO-3 Air	AIR/20274		
92201501001	**MW-1**	SM 6200B	MSV/26851		
92201501002	**MW-2**	SM 6200B	MSV/26851		
92201501003	**MW-5B**	SM 6200B	MSV/26851		
92201501004	**MW-8**	SM 6200B	MSV/26851		
92201501005	**MW-11**	SM 6200B	MSV/26851		
92201501006	**WSW-12**	SM 6200B	MSV/26851		

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: April 07, 2014 Page 1 of 2
	Document Number: **F-CHR-CS-003-rev.14**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Mart Hillman

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1102 T1401 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

Corrected Cooler Temp.: 5.5 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: SMF 5/15/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 5/15/14

SRF Review: [signature] Date: 5/15/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92201501

92201501

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1799522

Section A Required Client Information:

Company: Hart & Hickman, PC
Address: 2923 S Tryon St. Ste 100, Charlotte, NC 28203
Email To: tdesa@hanthickman.com
Phone: 704 580 0007 Fax:
Requested Due Date/TAT: standard

Section B Required Project Information:

Report To: Trinh DeSa
Copy To:
Purchase Order No.:
Project Name: Former Skipper's Marina
Project Number: KID-024

Section C Invoice Information:

Attention:
Company Name: H+H
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 1667-2, 1

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): 6200B+MTBE, EPA 18 (GTEX+TPH, MTBE)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	COLLECTED Composite Start Time	COLLECTED Composite End/Grab Date	COLLECTED Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) 6200B+MTBE	EPA 18 (GTEX+TPH, MTBE)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9212015D1
1	MW-1	WT	G	5/15/14	1100				4				4					X			001
2	MW-2	↓	↓	↓	1135				4				4					X			002
3	MW-5B				1150				4				4					X			003
4	MW-8				1210				4				4					X			004
5	MW-11				1250				4				4					X			005
6	WSW-12	↓			1305				4				4					X			006
7	SVE	AR	↓	↓	1310				1	1									X		007
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] H+H	5/15/14	13:31	[signature]	5/15/14	13:31	[illegible]

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Brandt Kayser
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/15/14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Appendix C

Historical Groundwater Sampling Results

SUMMARY OF HISTORICAL LABORATORY ANALYSES[1]
GROUNDWATER SAMPLES
FORMER SKIPPER'S MARINA

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	IPE	Naphthalene	EDB	Lead
MW-1	02/05/01	1,820[2]	2,280	1,440	4,290	NR[3]	NR	NR	<0.02[4]	51
	02/28/01	1,270	1,440	796	2,110	153	142	NR	<0.02	87
	05/31/01	3,000	4,300	1,600	4,500	79	340	NR	1.0	62
	04/25/02	6,500	6,000	1,900	5,700	<50[2]	240	440	NR	NR
MW-2	02/28/01	1.2	<1.0	<1.0	56.7	3.0	<1.0	NR	<0.02	22
	05/31/01	1.2	<1.0	1.2	21	<5.0	<5.0	NR	<0.02	41
	04/25/02	3.7	<1	<1	12	<5	<5	16	NR	NR
MW-3	02/28/01	45.2	73.2	165	218	77	24	NR	<0.02	37
	05/31/01	2.4	<1.0	7.0	<3.0	<5.0	<5.0	NR	<0.02	<15
	04/25/02	<1	<1	<1	<3	<5	<5	<5	NR	NR
MW-4	02/28/01	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<0.02	3.0
	05/31/01	<1.0	<1.0	<1.0	<3.0	<5.0	<5.0	NR	<0.02	31
	04/25/02	<1	<1	<1	<3	<5	<5	<5	NR	NR
MW-5	05/31/01	6,200	150	960	130	370	93	NR	<0.02	600
	04/25/02	1,700	35	290	40	61	120	<50	NR	NR
MW-6	05/31/01	<1.0	<1.0	<1.0	<3.0	<5.0	<5.0	NR	<0.02	78
	04/25/02	<1	<1	<1	<3	<5	<5	<5	NR	NR
MW-7	05/31/01	<1.0	<1.0	5.4	<3.0	<5.0	<5.0	NR	<0.02	<15
	04/25/02	<1	<1	<1	<3	<5	<5	<5	NR	NR
MW-8	08/15/01	1,600	<40	<40	<100	490	<200	NR	<0.02	170
	04/25/02	760	<10	<10	<30	310	<50	<50	NR	NR
MW-9	08/15/01	490	<1.0	<1.0	<3.0	150	<5.0	NR	<0.02	15
	04/25/02	34	<1	<1	<3	35	<5	<5	NR	NR
MW-10	08/31/01	<1.0	5.0	<1.0	<3.0	<5.0	<5.0	NR	<0.02	240
	04/25/02	<1	<1	<1	<3	<5	<5	<5	NR	NR
	MAC[5]	1	1,000	29	530	200	70	21	4.0×10^{-4}	15
	GCL[6]	5,000	257,500	29,000	87,500	200,000	70,000	15,500	50	15,000

SUMMARY OF HISTORICAL LABORATORY ANALYSES
GROUNDWATER SAMPLES
FORMER SKIPPER'S MARINA

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	IPE	Naphthalene	EDB	Lead
MW-11	08/31/01	22	<1.0	<1.0	<3.0	<5.0	<5.0	NR	<0.02	<15
	04/25/02	<1	<1	<1	<3	<5	<5	<5	<5	NR
MW-12	08/31/01	<1.0	<1.0	<1.0	<3.0	<5.0	<5.0	NR	<0.02	<15
	04/25/02	<1	<1	<1	<3	<5	<5	<5	NR	NR
MW-13	08/31/01	<1.0	18	<1.0	<3.0	<5.0	<5.0	NR	<0.02	66
	04/25/02	<1	<1	<1	<3	<5	<5	<5	NR	NR
MW-14	10/08/01	<1.0	<1.0	<1.0	<3.0	<5.0	<5.0	NR	<0.02	18
	04/25/02	<1	<1	<1	<3	<5	<5	<5	NR	NR
MW-15	01/10/02	<1.0	<1.0	<1.0	<3.0	<5.0	<5.0	NR	<0.02	81
	04/25/02	NS[7]	NS	NS	NS	NS	NS	NS	NS	NS
TW-1	02/28/01	<1.00	<1.00	<1.00	<1.00	<1	<1	NR	<0.02	<3
	05/31/01	<1.0	<1.0	<1.0	<3.0	<5.0	<5.0	NR	<0.02	<15
	04/25/02	<1	<1	<1	<3	<5	<5	<5	NR	NR
WSW-11	05/31/01	<1.0	<1.0	<1.0	<3.0	<5.0	<5.0	NR	NR	<15
	04/25/02	<1	<1	<1	<3	<5	<5	<5	<0.02	<15
WSW-12	05/31/01	<1.0	<1.0	<1.0	<3.0	<5.0	<5.0	NR	NR	---[8]
	01/10/02	<1.0	<1.0	<1.0	<3.0	<5.0	<5.0	NR	<0.02	<15
	04/25/02	<1	<1	<1	<3	<5	<5	<5	<0.02	<15
	MAC	1	1,000	29	530	200	70	21	4.0x10-4	15
	GCL	5,000	257,500	29,000	87,500	200,000	70,000	15,500	50	15,000

Notes:

1. Analyses for purgeable halocarbons and aromatics by EPA Methods 601/602; analyses for semi-volatile organics by EPA Method 625 (where applicable); analyses for EDB by EPA Method 504.1; analyses for lead by Method 6010 with Method 3030C digestion; results reported in µg/L.
2. Concentrations in bold face type exceeded the MAC.
3. Analysis not requested.
4. Less than the method detection limit specified in the laboratory report.
5. Maximum allowable concentration specified in T15A NCAC 2L.0202.
6. Gross contaminant level.
7. Not Sampled.
8. Insufficient sample for analysis; pump on water supply well not working.

INENCO, INC
132 W. Statesville Ave.
Mooresville, NC 28115
704-662-8192

Groundwater Sample Results

Former Skippers Marina
1156 Perth Road
Troutman, NC

Monitoring Well ID#:	MW-1		MW-2		MW-3		MW-4	MW-5	MW-5b
Sample Date:	4/25/02	8/7/07	4/25/02	8/7/07	4/25/02	8/7/07	8/7/07	4/25/02	6/2/08

Level Indication (ft)

TOC Elevation*	100.00		101.97		98.37		94.85	98.55	97.51
Static Water Depth (BLS)	7.77	11.32	9.85	12.92	6.09	9.32	5.48	6.25	7.94
Elev. of GW*	92.23	88.68	92.12	89.05	92.28	89.05	92.28	92.30	89.57

Analytical Results (µg/l)

EPA Method 601/602

										2L Standards	GCL
Benzene	6500	868	3.7	<MQL	<MQL	3.2	<MQL	1700	1023	1 µg/l	5,000 µg/l
Toluene	6000	847	<MQL	<MQL	<MQL	<MQL	<MQL	35	92.9	1,000 µg/l	257,500 µg/l
Ethylbenzene	1900	425	<MQL	<MQL	<MQL	2.2	<MQL	290	306	29 µg/l	29,000 µg/l
Xylenes (mixed)	5700	1053	12	8.1	<MQL	2.7	<MQL	40	250	530 µg/l	87,500 µg/l
MTBE	ND	702	<MQL	<MQL	<MQL	7.7	<MQL	61	<MQL	200 µg/l	200,000 µg/l
Isopropylether	240	1361	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	70 µg/l	7000 µg/l
Naphthalene	440	55.8	16	<MQL	<MQL	29.9	<MQL	120	112	21 µg/l	15,500 µg/l

*=relative elevation from previous reports --- = test not conducted < MQL = Below Minimum Quantification Limits

INENCO, INC
132 W. Statesville Ave.
Mooresville, NC 28115
704-662-8192

Groundwater Sample Results

Former Skippers Marina
1156 Perth Road
Troutman, NC

Monitoring Well ID#:	MW-5	MW-6C	MW-7		MW-8		MW-9		MW-10	
Sample Date:	4/25/02	6/2/08	4/25/02	8/7/07	4/25/02	8/7/07	4/25/02	8/7/07	4/25/02	8/7/07
Level Indication (ft)										
TOC Elevation*	93.79	90.98	96.88		99.13		98.60		99.97	
Static Water Depth (BLS)	1.92	1.71	6.42	9.63	6.94	10.41	6.36	9.89	7.91	11.42
Elev. of GW*	91.87	89.27	90.46	87.25	92.19	88.72	92.24	88.71	92.06	88.55
Analytical Results (µg/l)										
EPA Method 601/602										
Benzene	<MQL	<MQL	<MQL	<MQL	760	35.3	34	<MQL	<MQL	<MQL
Toluene	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL
Ethylbenzene	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL
Xylenes (mixed)	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL
MTBE	<MQL	<MQL	<MQL	<MQL	310	<MQL	35	<MQL	<MQL	<MQL
Isopropylether	<MQL	<MQL	<MQL	<MQL	<MQL	1115	<MQL	<MQL	<MQL	<MQL
Naphthalene	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL

	2L Standards	GCL
Benzene	1 µg/l	5,000 µg/l
Toluene	1,000 µg/l	257,500 µg/l
Ethylbenzene	29 µg/l	29,000 µg/l
Xylenes (mixed)	530 µg/l	87,500 µg/l
MTBE	200 µg/l	200,000 µg/l
Isopropylether	70 µg/l	7000 µg/l
Naphthalene	21 µg/l	15,500 µg/l

*=relative elevation from previous reports --- = test not conducted < MQL = Below Minimum Quantification Limits

INENCO, INC
132 W. Statesville Ave.
Mooresville, NC 28115
704-662-8192

Groundwater Sample Results

Former Skippers Marina
1156 Perth Road
Troutman, NC

Monitoring Well ID#:	MW-11		MW-12		MW-13		MW-14		MW-15	MW-15D	MW-16	
Sample Date:	4/25/02	8/7/07	4/25/02	8/7/07	4/25/02	8/7/07	4/25/02	8/7/07	4/25/02	6/2/08	4/25/02	8/7/07
Level Indication (ft)												
TOC Elevation*	97.96		101.48		94.34		96.38		99.60	99.53	99.82	
Static Water Depth (BLS)	12.70	16.04	9.13	12.79	1.92	5.39	11.18	14.74	NM	9.89	7.63	11.03
Elev. of GW*	85.26	81.92	92.35	88.69	92.42	88.95	85.20	81.64	NM	89.64	92.19	88.79

Analytical Results (µg/l)

EPA Method 601/602

													2L Standards	GCL
Benzene	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	NM	<MQL	<MQL	<MQL	1 µg/l	5,000 µg/l
Toluene	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	NM	<MQL	<MQL	<MQL	1,000 µg/l	257,500 µg/l
Ethylbenzene	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	NM	<MQL	<MQL	<MQL	29 µg/l	29,000 µg/l
Xylenes (mixed)	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	NM	<MQL	<MQL	<MQL	530 µg/l	87,500 µg/l
MTBE	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	NM	<MQL	<MQL	<MQL	200 µg/l	200,000 µg/l
Isopropylether	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	NM	<MQL	<MQL	<MQL	70 µg/l	7000 µg/l
Naphthalene	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	<MQL	NM	<MQL	<MQL	<MQL	21 µg/l	15,500 µg/l

*=relative elevation from previous reports -- = test not conducted < MQL = Below Minimum Quantification Limits NM= Not Measured