North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue, Governor
Dee Freeman, Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

TO: Charlotte Jesneck

FROM: Scott Bullock JSB 252 948 3906

COPY: Bob Davies

DATE: April 25, 2012

RECEIVED APR 30 2012 SUPERFUND SECTION

RE: Referral of Solvent Groundwater Contamination
Bridgeton Harbour Marina
1101 B Street, Bridgeton, NC
Craven County
UST Incident Number: 88372
Risk Classification: Low
Ranking: 105D

The Washington Regional Office (WaRO) Underground Storage Tank (UST) Section received a Comprehensive Site Assessment Report Addendum (Report) that included information for a petroleum release and a release of solvents to groundwater. The UST Section has ranked the petroleum release as Low 105D and we are pursuing the property owner to define the extent of petroleum contamination only. The Report indicates that solvents are present at high levels. **Therefore, the UST Section is referring the solvent groundwater contamination to the Inactive Hazardous Waste Branch.** Please find attached a copy of the Report.

If you have any questions or need additional information, please contact me at 252-948-3906.

NCDENR
North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

May 23, 2012

Manager
Harborside 17 Partners, LLC
2404 N. Rio Grande Avenue
Orlando, FL 32804

Re: **NOTICE OF REGULATORY REQUIREMENTS FOR CONTAMINANT ASSESSMENT AND CLEANUP**

Bridgeton Harbour Marina
1101 B Street
Bridgeton, Craven County, NC

Dear Harborside 17 Partners, LLC Manager:

The Underground Storage Tank Section of the Division of Waste Management ("Division") recently referred the May 1, 2009 report entitled "Comprehensive Site Assessment Addendum for Bridgeton Harbour Marina" to the Inactive Hazardous Sites Branch of the Division's Superfund Section. This report indicates that your site has been contaminated by one or more hazardous substances. Depending on the contaminants involved and whether the contaminants have impacted or may impact groundwater quality, you will be required to assess and cleanup the contamination under one or more cleanup authorities. Regulatory oversight for the assessment and cleanup under all applicable authorities will be provided by the Division of Waste Management through its Superfund Section, Inactive Hazardous Sites Branch ("Branch").

Based on information provided to date, the Inactive Hazardous Sites Response Act ("IHSRA"), codified under N.C. Gen. Stat. § 130A-310, et seq., applies to your site. In addition, initial immediate actions may be required under 15A NCAC 2L, Groundwater Classifications and Standards.

I. ACTIONS REQUIRED AT THIS TIME:

Complete the Site Cleanup Questionnaire.
To comply with the requirements of State law, a Site Cleanup Questionnaire, available on the website noted at the end of this letter, must be completed and returned to this office. The information you provide will be reviewed along with other information to prioritize the site, so please make certain that the information you provide is complete and accurate. Please note that your failure to inform the Branch of any nearby potable wells or other high risk conditions may adversely affect the Branch's ability to identify this site as a higher-risk site.

Agreement to Conduct Assessment and Remediation Under State Oversight.
If the Branch determines that the site should be assessed and remediated pursuant to direct State oversight, it will not be eligible for a REC-directed cleanup. Rather, the remedial action will receive direct oversight by Branch staff.

IV. FAILURE TO RESPOND:

If we do not receive a completed questionnaire, the Branch will take further action to prioritize the site without your input. Failure to take the initial abatement steps required in 15A NCAC 2L may result in the assessment of a civil penalty against you. In addition, the Branch may seek an injunction compelling compliance with the initial abatement steps required in 15A NCAC 2L. For future work beyond the initial abatement steps required pursuant to 15A NCAC 2L, a unilateral Order may be issued pursuant to N.C. Gen. Stat. § 130A-310.3 to compel assessment and cleanup.

V. ADDITIONAL INFORMATION REGARDING THE IHSRA AND THE BRANCH:

People are often confused by the name of the Inactive Hazardous Sites Response Act and the Branch. By definition, "Inactive Hazardous Sites" are any areas where hazardous substances have come to be located and would include active and inactive facilities and a variety of property types. The term "inactive" simply refers to the fact that cleanup was inactive at large numbers of sites at the time of program enactment. Additional information about the Branch may be found at: http://portal.ncdenr.org/web/wm/sf/ihshome.

Submit completed questionnaire to: Sue Murphy
Inactive Hazardous Sites Branch
NC Division of Waste Management

Mailing address: 1646 Mail Service Center
Raleigh, NC 27699

Physical address: 217 West Jones Street
Raleigh, NC 27603

All documents submitted to the Division in relation to this work must be provided in both paper and in an electronic format designated by the Division (see the Inactive Hazardous Sites Branch website located at http://portal.ncdenr.org/web/wm/sf/ihshome for current specifications on electronic document submittal).

If you have additional questions about the requirements that apply to your site, please contact me at (919) 707-8354.

Sincerely,

Sue Murphy

Sue Murphy, Engineer
Inactive Hazardous Sites Branch
Superfund Section

Cc: S. Newsome-Hunneke, NC DWM UST Section

Received
Wero DWM
MAY 06 2009

COMPREHENSIVE SITE ASSESSMENT ADDENDUM

Bridgeton Harbour Marina
1101 "B" Street
Bridgeton, Craven County, North Carolina

AVOLIS ENGINEERING, P.A.

P.O. Box 15564 ◆ New Bern, NC 28561 ◆ (252) 633-0068 ◆ (252) 633-6507 Fax

Comprehensive Site Assessment Addendum
Bridgeton Harbour Marina

1101 "B" Street
Bridgeton, NC
Craven County

Groundwater Incident # 88372
Discovery Date: May 2, 2008
Quantity of Release: Unknown
Source of Release: AST & Unknown

N35°-07'-41"
W77°-01'-38"

Property Owner:

Harbourside 17 Partners
2404 North Rio Grande Avenue
Orlando, Florida 32804
(407) 245-8360

Consultant:

Avolis Engineering, PA
PO Box 15564
New Bern, NC 28561
(252) 633-0068

May 1, 2009

NORTH CAROLINA PROFESSIONAL SEAL 15360 ENGINEER JOSEPH C. AVOLIS

1.0 Executive Summary

After review of the CSA dated December 31, 2009, the NCDENR requested additional information including resampling of the three existing monitoring wells and collection of soil samples at each of the monitoring wells.

Gasoline TPH levels were less than 4.2 ppm at all three groundwater monitoring well locations. Diesel range TPH levels produced results of <8.6 ppm, 25 ppm and 58 ppm. A previous TCLP analysis of the petroleum contaminated soils did not indicate any hazardous waste characteristics.

The groundwater was determined to contain hazardous and petroleum compounds. The detected contaminants and their peak concentrations were as follows:

- 1,1 Dichloroethane = 60 ppb, (70 ppb standard)
- 1,2-Dichloroethene = 1600 ppb, (70 ppb standard)
- 1,1-Dichloroethene = 25 ppb, (no standard)
- 1,1,1-Trichloroethane = 13 ppb, (200 ppb)
- Benzene = <1.9 ppb, (1 ppb)
- Toluene = 180 ppb, (1000 ppb)
- Ethylbenzene = 8.7 ppb, (550 ppb)
- Xylenes = 31.3 ppb, (530 ppb)
- Trichloroethene = 2600 ppb, (no standard)
- Vinyl Chloride = 170 ppb, (.015 ppb)
- Naphthalene = 11 ppb, (21 ppb)

Potentiometric surface maps indicate that the direction of groundwater flow on the site is towards the adjacent Neuse River. The highest trichloroethene concentration during this sampling event occurred at the downgradient groundwater monitoring well.

Petroleum contaminated soils on the site are proposed to be removed by excavation and then treated at a landfarming facility. The cleanup levels for groundwater contaminants would need to be determined.

The petroleum contaminated soil on the site is planned to be remediated by excavation. The groundwater impact from petroleum constituents is limited and does not appear to necessitate active remediation.

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1.0 Site History and Source Characterization

Petroleum contamination was detected on the site during the course of preparing an area for the installation of two underground fuel storage tanks. Petroleum odors were detected when the well point system was first made operational. Fuel tank installation was terminated. The incident was reported to the Underground Storage Tank Section of the NCDENR on May 2, 2008.

The petroleum release is apparently associated with a former above-ground fuel storage tank which was associated with a former 1940 - 1950's era lumber kiln. The aboveground fuel storage tank has been long gone from the site.

The site is located in a geographically flat area along the Neuse River waterfront. The area is in the process of being converted into a marina development. The surrounding area is largely undeveloped with one upgradient metal fabrication facility.

2.0 Additional Soil Sampling Results

A total of five soil samples were previously collected with a hand auger from boreholes on the site in order to delineate the extent of petroleum contamination that was detected apparently as a result of a 1940 - 1950's era aboveground fuel oil storage tank. The soil samples all came from a depth of approximately three feet, just above the groundwater level. The soil samples were analyzed for total petroleum hydrocarbons in the diesel fuel and gasoline ranges. The peak TPH concentration for contaminants in the diesel fuel range was 3500 ppm. The peak TPH concentration for contaminants in the gasoline range was 20 ppm.

The additional soil sampling event included soil samples at each of the three groundwater monitoring well locations. All TPH levels for gasoline range constituents were less than 4.2 ppm. The TPH levels in the diesel fuel range were as follows: 9.2 ppm at MW #1, 58 ppm at MW #2 and 25 ppm at MW #3. Based on the additional soil data, the petroleum contamination extends below the existing metal building on the site.

A TCLP analysis of a sample of the petroleum contaminated soil was completed to determine if the soil planned for excavation exhibited any hazardous waste characteristics. The analysis was completed for mercury, metals, organochlorine pesticides and semi-volatile organics. All compounds were below minimum laboratory detection limits.

3.0 Additional Groundwater Sampling Results

The three existing groundwater monitoring wells on the site were resampled. The results of the samples are shown on the attached appendices. The peak contaminant of concern continues to be trichloroethene which was present at concentrations of 72 ppb, 430 ppb and 2,600 ppb. The downgradient MW #2 produced the highest concentration at 2,600 ppb compared to 170 ppb during the last sampling event. Vinyl chloride was present at 170 ppb in the downgradient monitoring well.

4.0 Additional Hydrogeologic Investigation

Groundwater potentiometric surface measurements indicated that the direction of groundwater flow on the site is consistently towards the west in the direction of the Neuse River. The average hydraulic gradient is 0.0079 ft/ft.

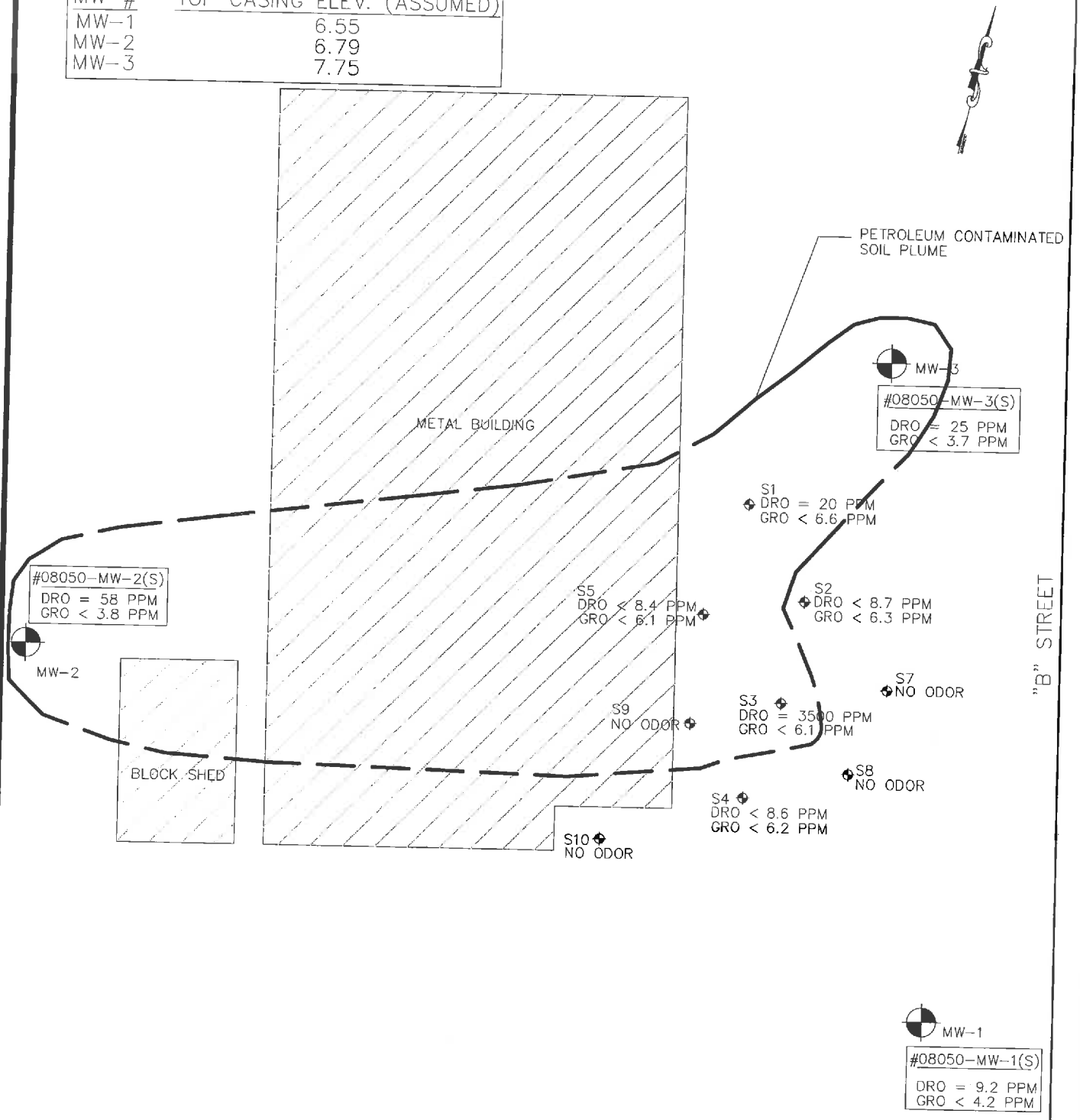
5.0 Conclusions and Recommendations

The petroleum contaminated soil plume on the site can be remediated by excavation. A portion of the contaminated soil plume is under the building and is proposed to remain until the building is eventually demolished. TCLP analysis has indicated that the petroleum contaminated soil does not have hazardous waste characteristics.

The groundwater contaminant plume is primarily composed of three compounds. The full location of the contaminant plume would require additional testing including going off site possibly onto other private property in the upgradient direction.

FIGURE 1

MONITORING WELL ELEVATION DATA	
MW-#	TOP CASING ELEV. (ASSUMED)
MW-1	6.55
MW-2	6.79
MW-3	7.75



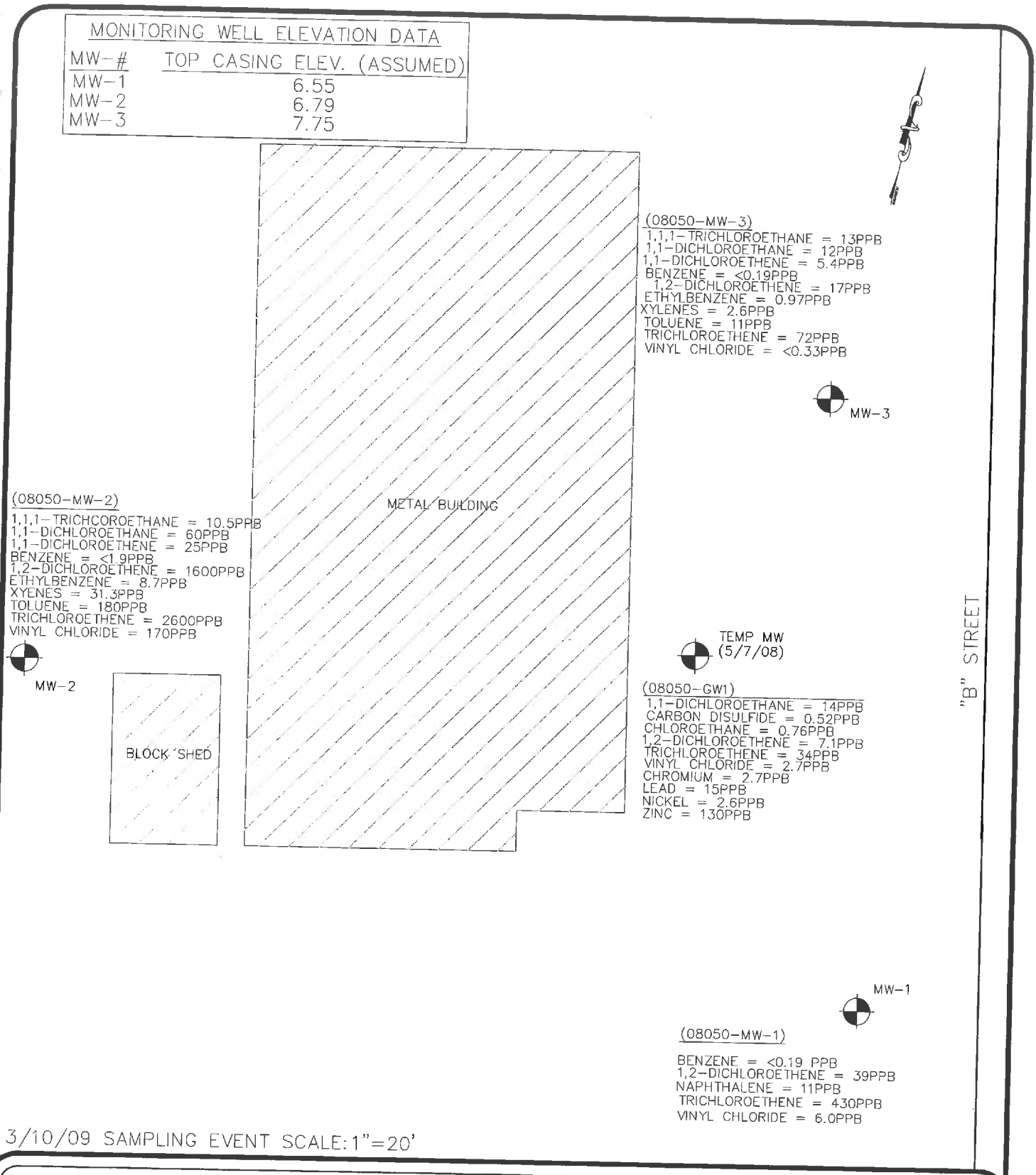
3/10/09 SAMPLING EVENT SCALE: 1"=20'

AVOLIS ENGINEERING, P.A.
Civil and Environmental Engineering
P.O. BOX 15564 NEW BERN, NORTH CAROLINA 28561
PHONE: (252) 633-0068 FAX: (252) 633-6507

SOIL ANALYTICAL DATA
HARBOURSIDE MARINA
1101 B STREET
BRIDGETON, NORTH CAROLINA

FIGURE 2

MONITORING WELL ELEVATION DATA	
MW-#	TOP CASING ELEV. (ASSUMED)
MW-1	6.55
MW-2	6.79
MW-3	7.75



3/10/09 SAMPLING EVENT SCALE:1"=20'

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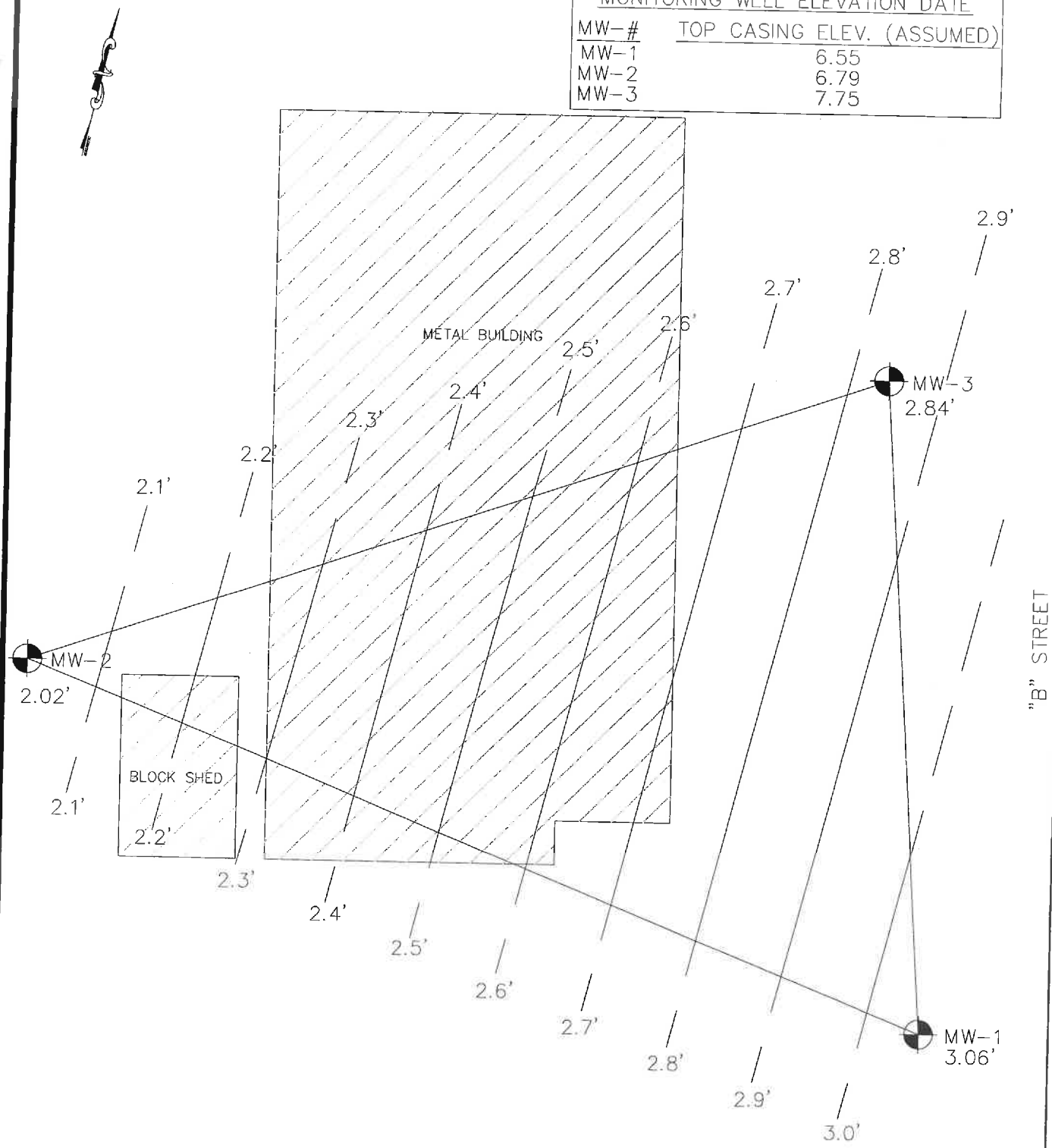
GROUNDWATER ANALYTICAL DATA
HARBOURSIDE MARINA
1101 B STREET
BRIDGETON, NORTH CAROLINA

FIGURE 3

MONITORING WELL ELEVATION DATE	
MW-#	TOP CASING ELEV. (ASSUMED)
MW-1	6.55
MW-2	6.79
MW-3	7.75



SCALE: 1"=20' 3/10/09

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P.O. BOX 15564 NEW BERN, NORTH CAROLINA 28561
PHONE: (252) 633-0068 FAX: (252) 633-6507

POTENTIOMATIC SURFACE MAP
HARBOURSIDE MARINA
1101 B STREET
BRIDGETON, NORTH CAROLINA

TABLE 1

Bridgeton Harbour Marina
1101 "B" Street
Bridgeton, NC

Monitoring Well #1

Compound	3/10/2009	9/22/2008	8/18/2008	NCAC 2l Std.
1,1,1-Trichloroethane	BRL	BRL	NS	200
1,1,2,2-Tetrachloroethane	BRL	BRL	NS	0.7
1,1,2-Trichloroethane	BRL	BRL	NS	
1,1-Dichloroethane	BRL	BRL	NS	70
1,1-Dichloroethene	BRL	0.71	NS	
1,2-Dibromoethane(EDB)	BRL	BRL	NS	0.0004
1,2-Dichlorobenzene	BRL	BRL	BRL	24
1,2-Dichloroethane	BRL	BRL	NS	0.38
1,2-Dichloropropane	BRL	BRL	NS	0.51
1,3-Dichlorobenzene	BRL	BRL	NS	170
1,4-Dichlorobenzene	BRL	BRL	NS	1.4
Benzene	BRL	1.2	BRL	1
Bromodichloromethane	BRL	BRL	NS	
Bromoform	BRL	BRL	NS	0.19
Bromoethane	BRL	BRL	NS	
Carbon tetrachloride	BRL	BRL	NS	
Chlorobenzene	BRL	BRL	NS	50
Chloroethane	BRL	BRL	NS	
Chloroform	BRL	BRL	NS	70
Chloromethane	BRL	BRL	NS	2.6
cis-1,2-Dichloroethene	39	68	NS	70
cis-1,2-Dichloropropene	BRL	BRL	NS	100
Dibromochloromethane	BRL	BRL	NS	
Dichlorodifluoromethane	BRL	BRL	NS	1400
Ethylbenzene	BRL	BRL	BRL	550
Isopropyl ether	BRL	BRL	BRL	70
m,p-Xylenes	BRL	BRL	BRL	530
MTBE	BRL	BRL	BRL	200
Methylene Chloride	BRL	BRL	NS	4.6
Naphthalene	11	3.9	BRL	21
o-Xylene	BRL	BRL	BRL	530
Tetrachloroethene	BRL	BRL	NS	
Toluene	BRL	BRL	BRL	1000
trans-1,2-Dichloroethene	BRL	2.5	NS	100
trans-1,3-Dichloropropene	BRL	BRL	NS	0.019
Trichloroethene	430	1600	NS	2.8
Trichlorofluormethane	BRL	BRL	NS	2100
Vinyl chloride	6	11	NS	0.015

Bridgeton Harbour Marina
1101 "B" Street
Bridgeton, NC

Monitoring Well #2

Compound	3/10/2009	9/22/2008	8/18/2008	NCAC 2l Std.
1,1,1-Trichloroethane	10	22	NS	200
1,1,2,2-Tetrachloroethane	BRL	BRL	NS	0.7
1,1,2-Trichloroethane	BRL	BRL	NS	
1,1-Dichloroethane	60	86	NS	70
1,1-Dichloroethene	25	12	NS	
1,2-Dibromoethane(EDB)	BRL	BRL	NS	0.0004
1,2-Dichlorobenzene	BRL	BRL	BRL	24
1,2-Dichloroethane	BRL	BRL	NS	0.38
1,2-Dichloropropane	BRL	BRL	NS	0.51
1,3-Dichlorobenzene	BRL	BRL	NS	170
1,4-Dichlorobenzene	BRL	BRL	NS	1.4
Benzene	BRL	BRL	BRL	1
Bromodichloromethane	BRL	BRL	NS	
Bromoform	BRL	BRL	NS	0.19
Bromoethane	BRL	BRL	NS	
Carbon tetrachloride	BRL	BRL	NS	
Chlorobenzene	BRL	BRL	NS	50
Chloroethane	BRL	BRL	NS	
Chloroform	BRL	BRL	NS	70
Chloromethane	BRL	BRL	NS	2.6
cis-1,2-Dichloroethene	1600	1400	NS	70
cis-1,2-Dichloropropene	BRL	BRL	NS	100
Dibromochloromethane	BRL	BRL	NS	
Dichlorodifluoromethane	BRL	BRL	NS	1400
Ethylbenzene	8.7	14	29	550
Isopropyl ether	BRL	BRL	BRL	70
m,p-Xylenes	22	48	60	530
MTBE	BRL	BRL	BRL	200
Methylene Chloride	BRL	BRL	NS	4.6
Naphthalene	11	BRL	BRL	21
o-Xylene	9.3	34	38	530
Tetrachloroethene	BRL	BRL	NS	
Toluene	180	590	1300	1000
trans-1,2-Dichloroethene	BRL	8.3	NS	100
trans-1,3-Dichloropropene	BRL	BRL	NS	0.019
Trichloroethene	2600	170	NS	2.8
Trichlorofluormethane	BRL	BRL	NS	2100
Vinyl chloride	170	330	NS	0.015

Bridgeton Harbour Marina
1101 "B" Street
Bridgeton, NC

Monitoring Well #3

Compound	3/10/2009	9/22/2008	8/18/2008	NCAC 2l Std.
1,1,1-Trichloroethane	13	5.5	NS	200
1,1,2,2-Tetrachloroethane	BRL	BRL	NS	0.7
1,1,2-Trichloroethane	BRL	BRL	NS	
1,1-Dichloroethane	12	17	NS	70
1,1-Dichloroethene	5.4	3.9	NS	
1,2-Dibromoethane(EDB)	BRL	BRL	NS	0.0004
1,2-Dichlorobenzene	BRL	BRL	BRL	24
1,2-Dichloroethane	BRL	BRL	NS	0.38
1,2-Dichloropropane	BRL	BRL	NS	0.51
1,3-Dichlorobenzene	BRL	BRL	NS	170
1,4-Dichlorobenzene	BRL	BRL	NS	1.4
Benzene	BRL	0.66	1.3	1
Bromodichloromethane	BRL	BRL	NS	
Bromoform	BRL	BRL	NS	0.19
Bromoethane	BRL	BRL	NS	
Carbon tetrachloride	BRL	BRL	NS	
Chlorobenzene	BRL	BRL	NS	50
Chloroethane	BRL	BRL	NS	
Chloroform	BRL	BRL	NS	70
Chloromethane	BRL	BRL	NS	2.6
cis-1,2-Dichloroethene	17	57	NS	70
cis-1,2-Dichloropropene	BRL	BRL	NS	100
Dibromochloromethane	BRL	BRL	NS	
Dichlorodifluoromethane	BRL	BRL	NS	1400
Ethylbenzene	0.97	1.1	1.7	550
Isopropyl ether	BRL	BRL	BRL	70
m,p-Xylenes	1.5	3.8	BRL	530
MTBE	BRL	BRL	BRL	200
Methylene Chloride	BRL	BRL	NS	4.6
Naphthalene	BRL	BRL	1.5	21
o-Xylene	1.1	2.8	1.7	530
Tetrachloroethene	BRL	BRL	NS	
Toluene	11	5.6	22	1000
trans-1,2-Dichloroethene	BRL	BRL	NS	100
trans-1,3-Dichloropropene	BRL	BRL	NS	0.019
Trichloroethene	72	25	NS	2.8
Trichlorofluormethane	BRL	BRL	NS	2100
Vinyl chloride	BRL	4.7	NS	0.015

APPENDIX 1

PRISM LABORATORIES, INC.

Case Narrative

Date:	03/27/09	**Client Project ID:**	Bridgeton Harbor
Company:	Avolis Engineering P.A.	**Prism COC Group No:**	G0309254
Contact:	Joe Avolis	**Collection Date(s):**	03/10/09
Address:	P.O. Box 15564 New Bern, NC 28563	**Lab Submittal Date(s):**	03/11/09

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 17 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

Analysis Note for Q39877 MSD o-Xylene: RPD value outside the control limit.

Metals Analysis

N/A

Wet Lab and Micro Analysis

N/A

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

Data Reviewed by:	Robbi A. Jones	**Project Manager:**	Angela D. Overcash
Signature:	Robbi A. Jones	**Signature:**	
Review Date:	03/27/09	**Approval Date:**	03/27/09

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.
#: Result outside of the QC limits.
DO: Compound diluted out.
E: Estimated concentration, calibration range exceeded.
J: The analyte was positively identified but the value is estimated below the reporting limit.
H: Estimated concentration with a high bias.
L: Estimated concentration with a low bias.
M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the writtten consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.

449 Springbrook Road, P.O. Box 240543, Charlotte NC 28224-0403
Phone: 704/529-6364 Toll Free: 800/529-6364 Fax: 704/525-0409

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

03/27/09

Avolis Engineering P.A.
Attn Joe Avolis
P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor
Sample Matrix: Water

Client Sample ID 08050-MW1
Prism Sample ID 240082
COC Group: G0309254
Time Collected: 03/10/09 9:30
Time Submitted: 03/11/09 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Purgeable Halocarbons and Aromatics by GC-PID/ELCD									
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.21	1	601/602	03/17/09 19:20	dliamm	Q39877
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.21	1	601/602	03/17/09 19:20	dliamm	Q39877
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.13	1	601/602	03/17/09 19:20	dliamm	Q39877
1,1-Dichloroethane	BRL	µg/L	1.0	0.14	1	601/602	03/17/09 19:20	dliamm	Q39877
1,1-Dichloroethene	BRL	µg/L	1.0	0.19	1	601/602	03/17/09 19:20	dliamm	Q39877
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.12	1	601/602	03/17/09 19:20	dliamm	Q39877
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.096	1	601/602	03/17/09 19:20	dliamm	Q39877
1,2-Dichloroethane	BRL	µg/L	1.0	0.16	1	601/602	03/17/09 19:20	dliamm	Q39877
1,2-Dichloropropane	BRL	µg/L	1.0	0.16	1	601/602	03/17/09 19:20	dliamm	Q39877
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.17	1	601/602	03/17/09 19:20	dliamm	Q39877
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	601/602	03/17/09 19:20	dliamm	Q39877
Benzene	BRL	µg/L	0.50	0.19	1	601/602	03/17/09 19:20	dliamm	Q39877
Bromodichloromethane	BRL	µg/L	1.0	0.11	1	601/602	03/17/09 19:20	dliamm	Q39877
Bromoform	BRL	µg/L	1.0	0.094	1	601/602	03/17/09 19:20	dliamm	Q39877
Bromomethane	BRL	µg/L	5.0	0.087	1	601/602	03/17/09 19:20	dliamm	Q39877
Carbon tetrachloride	BRL	µg/L	1.0	0.23	1	601/602	03/17/09 19:20	dliamm	Q39877
Chlorobenzene	BRL	µg/L	1.0	0.37	1	601/602	03/17/09 19:20	dliamm	Q39877
Chloroethane	BRL	µg/L	5.0	0.25	1	601/602	03/17/09 19:20	dliamm	Q39877
Chloroform	BRL	µg/L	1.0	0.18	1	601/602	03/17/09 19:20	dliamm	Q39877
Chloromethane	BRL	µg/L	5.0	0.24	1	601/602	03/17/09 19:20	dliamm	Q39877
cis-1,2-Dichloroethene	39	µg/L	1.0	0.51	1	601/602	03/17/09 19:20	dliamm	Q39877
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.16	1	601/602	03/17/09 19:20	dliamm	Q39877
Dibromochloromethane	BRL	µg/L	1.0	0.12	1	601/602	03/17/09 19:20	dliamm	Q39877
Dichlorodifluoromethane	BRL	µg/L	5.0	0.21	1	601/602	03/17/09 19:20	dliamm	Q39877
Ethylbenzene	BRL	µg/L	1.0	0.28	1	601/602	03/17/09 19:20	dliamm	Q39877
Isopropyl ether (IPE)	BRL	µg/L	5.0	0.18	1	601/602	03/17/09 19:20	dliamm	Q39877
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	601/602	03/17/09 19:20	dliamm	Q39877

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SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

03/27/09

Avolis Engineering P.A.
Attn Joe Avolis
P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor
Sample Matrix: Water

Client Sample ID 08050-MW1
Prism Sample ID 240082
COC Group: G0309254
Time Collected: 03/10/09 9:30
Time Submitted: 03/11/09 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl t-butyl ether (MTBE)	BRL	µg/L	5.0	0.17	1	601/602	03/17/09 19:20	dliamm	Q39877
Methylene Chloride	BRL	µg/L	1.0	0.12	1	601/602	03/17/09 19:20	dliamm	Q39877
Naphthalene	11	µg/L	1.0	0.63	1	601/602	03/17/09 19:20	dliamm	Q39877
o-Xylene	BRL	µg/L	1.0	0.31	1	601/602	03/17/09 19:20	dliamm	Q39877
Tetrachloroethene	BRL	µg/L	1.0	0.26	1	601/602	03/17/09 19:20	dliamm	Q39877
Toluene	BRL	µg/L	1.0	0.23	1	601/602	03/17/09 19:20	dliamm	Q39877
trans-1,2-Dichloroethene	BRL	µg/L	1.0	0.17	1	601/602	03/17/09 19:20	dliamm	Q39877
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.19	1	601/602	03/17/09 19:20	dliamm	Q39877
Trichloroethene	430	µg/L	10	2.0	10	601/602	03/14/09 20:40	dliamm	Q39877
Trichlorofluoromethane	BRL	µg/L	5.0	0.24	1	601/602	03/17/09 19:20	dliamm	Q39877
Vinyl chloride	6.0	µg/L	1.0	0.33	1	601/602	03/17/09 19:20	dliamm	Q39877

Surrogate	% Recovery	Control Limits
Bromochlorobenzene-ELCD	128	56 - 148
1,4-Difluorobenzene-PID	95	69 - 140

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Angela D. Overcash, V.P. Laboratory Services

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Full Service Analytical & Environmental Solutions

Laboratory Report

03/27/09

Avolis Engineering P.A.
Attn Joe Avolis
P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor
Sample Matrix: Water

Client Sample ID 08050-MW2
Prism Sample ID 240083
COC Group: G0309254
Time Collected: 03/10/09 10:00
Time Submitted: 03/11/09 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Purgeable Halocarbons and Aromatics by GC-PID/ELCD									
1,1,1-Trichloroethane	**10**	µg/L	10	2.1	10	601/602	03/16/09 22:51	dliamm	Q39877
1,1,2,2-Tetrachloroethane	**BRL**	µg/L	10	2.1	10	601/602	03/16/09 22:51	dliamm	Q39877
1,1,2-Trichloroethane	**BRL**	µg/L	10	1.3	10	601/602	03/16/09 22:51	dliamm	Q39877
1,1-Dichloroethane	**60**	µg/L	10	1.4	10	601/602	03/16/09 22:51	dliamm	Q39877
1,1-Dichloroethene	**25**	µg/L	10	1.9	10	601/602	03/16/09 22:51	dliamm	Q39877
1,2-Dibromoethane (EDB)	**BRL**	µg/L	10	1.2	10	601/602	03/16/09 22:51	dliamm	Q39877
1,2-Dichlorobenzene	**BRL**	µg/L	10	0.96	10	601/602	03/16/09 22:51	dliamm	Q39877
1,2-Dichloroethane	**BRL**	µg/L	10	1.6	10	601/602	03/16/09 22:51	dliamm	Q39877
1,2-Dichloropropane	**BRL**	µg/L	10	1.6	10	601/602	03/16/09 22:51	dliamm	Q39877
1,3-Dichlorobenzene	**BRL**	µg/L	10	1.8	10	601/602	03/16/09 22:51	dliamm	Q39877
1,4-Dichlorobenzene	**BRL**	µg/L	10	1.2	10	601/602	03/16/09 22:51	dliamm	Q39877
Benzene	**BRL**	µg/L	5.0	1.9	10	601/602	03/16/09 22:51	dliamm	Q39877
Bromodichloromethane	**BRL**	µg/L	10	1.1	10	601/602	03/16/09 22:51	dliamm	Q39877
Bromoform	**BRL**	µg/L	10	0.94	10	601/602	03/16/09 22:51	dliamm	Q39877
Bromomethane	**BRL**	µg/L	50	0.87	10	601/602	03/16/09 22:51	dliamm	Q39877
Carbon tetrachloride	**BRL**	µg/L	10	2.3	10	601/602	03/16/09 22:51	dliamm	Q39877
Chlorobenzene	**BRL**	µg/L	10	3.7	10	601/602	03/16/09 22:51	dliamm	Q39877
Chloroethane	**BRL**	µg/L	50	2.5	10	601/602	03/16/09 22:51	dliamm	Q39877
Chloroform	**BRL**	µg/L	10	1.8	10	601/602	03/16/09 22:51	dliamm	Q39877
Chloromethane	**BRL**	µg/L	50	2.4	10	601/602	03/16/09 22:51	dliamm	Q39877
cis-1,2-Dichloroethene	**1600**	µg/L	40	20	40	601/602	03/17/09 20:55	dliamm	Q39877
cis-1,3-Dichloropropene	**BRL**	µg/L	10	1.6	10	601/602	03/16/09 22:51	dliamm	Q39877
Dibromochloromethane	**BRL**	µg/L	10	1.2	10	601/602	03/16/09 22:51	dliamm	Q39877
Dichlorodifluoromethane	**BRL**	µg/L	50	2.1	10	601/602	03/16/09 22:51	dliamm	Q39877
Ethylbenzene	**8.7 J**	µg/L	10	2.8	10	601/602	03/16/09 22:51	dliamm	Q39877
Isopropyl ether (IPE)	**BRL**	µg/L	50	1.8	10	601/602	03/16/09 22:51	dliamm	Q39877
m,p-Xylenes	**22**	µg/L	20	5.0	10	601/602	03/16/09 22:51	dliamm	Q39877

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Full Service Analytical & Environmental Solutions

Laboratory Report

03/27/09

Avolis Engineering P.A.
Attn Joe Avolis
P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor
Sample Matrix: Water

Client Sample ID 08050-MW2
Prism Sample ID 240083
COC Group: G0309254
Time Collected: 03/10/09 10:00
Time Submitted: 03/11/09 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl t-butyl ether (MTBE)	BRL	µg/L	50	1.7	10	601/602	03/16/09 22:51	dliamm	Q39877
Methylene Chloride	BRL	µg/L	10	1.2	10	601/602	03/16/09 22:51	dliamm	Q39877
Naphthalene	BRL	µg/L	10	6.3	10	601/602	03/16/09 22:51	dliamm	Q39877
o-Xylene	9.3 J	µg/L	10	3.1	10	601/602	03/16/09 22:51	dliamm	Q39877
Tetrachloroethene	BRL	µg/L	10	2.6	10	601/602	03/16/09 22:51	dliamm	Q39877
Toluene	180	µg/L	10	2.3	10	601/602	03/16/09 22:51	dliamm	Q39877
trans-1,2-Dichloroethene	BRL	µg/L	10	1.7	10	601/602	03/16/09 22:51	dliamm	Q39877
trans-1,3-Dichloropropene	BRL	µg/L	10	1.9	10	601/602	03/16/09 22:51	dliamm	Q39877
Trichloroethene	2600	µg/L	40	8.0	40	601/602	03/17/09 20:55	dliamm	Q39877
Trichlorofluoromethane	BRL	µg/L	50	2.5	10	601/602	03/16/09 22:51	dliamm	Q39877
Vinyl chloride	170	µg/L	10	3.3	10	601/602	03/16/09 22:51	dliamm	Q39877

Surrogate	% Recovery	Control Limits
Bromochlorobenzene-ELCD	97	56 - 148
1,4-Difluorobenzene-PID	99	69 - 140

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

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Angela D. Overcash, V.P. Laboratory Services

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Full Service Analytical & Environmental Solutions

Laboratory Report

03/27/09

Avolis Engineering P.A.
Attn Joe Avolis
P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor
Sample Matrix: Water

Client Sample ID 08050-MW3
Prism Sample ID 240084
COC Group: G0309254
Time Collected: 03/10/09 10:35
Time Submitted: 03/11/09 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Purgeable Halocarbons and Aromatics by GC-PID/ELCD									
1,1,1-Trichloroethane	13	µg/L	1.0	0.21	1	601/602	03/16/09 16:31	dliamm	Q39877
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.21	1	601/602	03/16/09 16:31	dliamm	Q39877
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.13	1	601/602	03/16/09 16:31	dliamm	Q39877
1,1-Dichloroethane	12	µg/L	1.0	0.14	1	601/602	03/16/09 16:31	dliamm	Q39877
1,1-Dichloroethene	5.4	µg/L	1.0	0.19	1	601/602	03/16/09 16:31	dliamm	Q39877
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.12	1	601/602	03/16/09 16:31	dliamm	Q39877
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.096	1	601/602	03/16/09 16:31	dliamm	Q39877
1,2-Dichloroethane	BRL	µg/L	1.0	0.16	1	601/602	03/16/09 16:31	dliamm	Q39877
1,2-Dichloropropane	BRL	µg/L	1.0	0.16	1	601/602	03/16/09 16:31	dliamm	Q39877
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.17	1	601/602	03/16/09 16:31	dliamm	Q39877
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	601/602	03/16/09 16:31	dliamm	Q39877
Benzene	BRL	µg/L	0.50	0.19	1	601/602	03/16/09 16:31	dliamm	Q39877
Bromodichloromethane	BRL	µg/L	1.0	0.11	1	601/602	03/16/09 16:31	dliamm	Q39877
Bromoform	BRL	µg/L	1.0	0.094	1	601/602	03/16/09 16:31	dliamm	Q39877
Bromomethane	BRL	µg/L	5.0	0.087	1	601/602	03/16/09 16:31	dliamm	Q39877
Carbon tetrachloride	BRL	µg/L	1.0	0.23	1	601/602	03/16/09 16:31	dliamm	Q39877
Chlorobenzene	BRL	µg/L	1.0	0.37	1	601/602	03/16/09 16:31	dliamm	Q39877
Chloroethane	BRL	µg/L	5.0	0.25	1	601/602	03/16/09 16:31	dliamm	Q39877
Chloroform	BRL	µg/L	1.0	0.18	1	601/602	03/16/09 16:31	dliamm	Q39877
Chloromethane	BRL	µg/L	5.0	0.24	1	601/602	03/16/09 16:31	dliamm	Q39877
cis-1,2-Dichloroethene	17	µg/L	1.0	0.51	1	601/602	03/16/09 16:31	dliamm	Q39877
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.16	1	601/602	03/16/09 16:31	dliamm	Q39877
Dibromochloromethane	BRL	µg/L	1.0	0.12	1	601/602	03/16/09 16:31	dliamm	Q39877
Dichlorodifluoromethane	BRL	µg/L	5.0	0.21	1	601/602	03/16/09 16:31	dliamm	Q39877
Ethylbenzene	0.97 J	µg/L	1.0	0.28	1	601/602	03/16/09 16:31	dliamm	Q39877
Isopropyl ether (IPE)	BRL	µg/L	5.0	0.18	1	601/602	03/16/09 16:31	dliamm	Q39877
m,p-Xylenes	1.5 J	µg/L	2.0	0.51	1	601/602	03/16/09 16:31	dliamm	Q39877

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NC Drinking Water Cert. No. 37735

Laboratory Report

03/27/09

Avolis Engineering P.A.
Attn Joe Avolis
P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor
Sample Matrix: Water

Client Sample ID 08050-MW3
Prism Sample ID 240084
COC Group: G0309254
Time Collected: 03/10/09 10:35
Time Submitted: 03/11/09 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl t-butyl ether (MTBE)	BRL	µg/L	5.0	0.17	1	601/602	03/16/09 16:31	dliamm	Q39877
Methylene Chloride	BRL	µg/L	1.0	0.12	1	601/602	03/16/09 16:31	dliamm	Q39877
Naphthalene	BRL	µg/L	1.0	0.63	1	601/602	03/16/09 16:31	dliamm	Q39877
o-Xylene	1.1	µg/L	1.0	0.31	1	601/602	03/16/09 16:31	dliamm	Q39877
Tetrachloroethene	BRL	µg/L	1.0	0.26	1	601/602	03/16/09 16:31	dliamm	Q39877
Toluene	11	µg/L	1.0	0.23	1	601/602	03/16/09 16:31	dliamm	Q39877
trans-1,2-Dichloroethene	BRL	µg/L	1.0	0.17	1	601/602	03/16/09 16:31	dliamm	Q39877
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.19	1	601/602	03/16/09 16:31	dliamm	Q39877
Trichloroethene	72	µg/L	1.0	0.21	1	601/602	03/16/09 16:31	dliamm	Q39877
Trichlorofluoromethane	BRL	µg/L	5.0	0.24	1	601/602	03/16/09 16:31	dliamm	Q39877
Vinyl chloride	BRL	µg/L	1.0	0.33	1	601/602	03/16/09 16:31	dliamm	Q39877

Surrogate	% Recovery	Control Limits
Bromochlorobenzene-ELCD	123	56 - 148
1,4-Difluorobenzene-PID	96	69 - 140

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Full Service Analytical & Environmental Solutions

Laboratory Report

03/27/09

Avolis Engineering P.A.
Attn Joe Avolis
P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor
Sample Matrix: Soil

Client Sample ID 08050-MW1(S)
Prism Sample ID 240085
COC Group: G0309254
Time Collected: 03/10/09 11:00
Time Submitted: 03/11/09 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	73.7	%			1	SM2540 G	03/16/09 15:30	dsullivan	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	9.2 J	mg/kg	9.5	1.5	1	8015B	03/20/09 8:27	jvogel	Q40036
Sample Preparation:			25.04 g /		1 mL	3545	03/18/09 14:00	pbarr	P24042

Surrogate	% Recovery	Control Limits
o-Terphenyl	79	49 - 124

Sample Weight Determination									
Weight 1	4.38	g			1	GRO	03/16/09 0:00	tbrown	
Weight 2	5.07	g			1	GRO	03/16/09 0:00	tbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.8	4.2	50	8015B	03/18/09 17:38	dliamm	Q39979

Surrogate	% Recovery	Control Limits
aaa-TFT	64	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

03/27/09

Avolis Engineering P.A.
Attn Joe Avolis
P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor
Sample Matrix: Soil

Client Sample ID 08050-MW2(S)
Prism Sample ID 240086
COC Group: G0309254
Time Collected: 03/10/09 11:25
Time Submitted: 03/11/09 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.5	%			1	SM2540 G	03/16/09 15:30	dsullivan	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	58	mg/kg	8.6	1.4	1	8015B	03/20/09 8:59	jvogel	Q40036
Sample Preparation:			25.01 g /		1 mL	3545	03/18/09 14:00	pbarr	P24042

Surrogate	% Recovery	Control Limits
o-Terphenyl	94	49 - 124

Sample Weight Determination									
Weight 1	5.52	g			1	GRO	03/16/09 0:00	lbrown	
Weight 2	6.10	g			1	GRO	03/16/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	3.8	50	8015B	03/18/09 18:10	dliamm	Q39979

Surrogate	% Recovery	Control Limits
aaa-TFT	66	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

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Laboratory Report

03/27/09

Avolis Engineering P.A.
Attn Joe Avolis
P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor
Sample Matrix: Soil

Client Sample ID 08050-MW3(S)
Prism Sample ID 240087
COC Group: G0309254
Time Collected: 03/10/09 11:45
Time Submitted: 03/11/09 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**85.0**	%			1	SM2540 G	03/16/09 15:30	dsullivan	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**25**	mg/kg	8.2	1.3	1	8015B	03/19/09 17:50	jvogel	Q40036
Sample Preparation:			25.06 g	/	1 mL	3545	03/18/09 14:00	pbarr	P24042

Surrogate	% Recovery	Control Limits
o-Terphenyl	101	49 - 124

Sample Weight Determination									
Weight 1	**5.15**	g			1	GRO	03/16/09 0:00	lbrown	
Weight 2	**5.46**	g			1	GRO	03/16/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	5.9	3.7	50	8015B	03/19/09 1:30	dliamm	Q39979

Surrogate	% Recovery	Control Limits
aaa-TFT	69	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

3/27/2009

Avolis Engineering P.A.
Attn: Joe Avolis
P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor

COC Group Number: G0309254
Date/Time Submitted: 3/11/200 9:20

Purgeable Halocarbons by GC-ELCD, method 601/602

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	1	<0.5	µg/L	Q39877
1,1,2,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q39877
1,1,2-Trichloroethane	ND	1	<0.5	µg/L	Q39877
1,1-Dichloroethane	ND	1	<0.5	µg/L	Q39877
1,1-Dichloroethene	ND	1	<0.5	µg/L	Q39877
1,2-Dibromoethane (EDB)	ND	1	<0.5	µg/L	Q39877
1,2-Dichlorobenzene	ND	1	<0.5	µg/L	Q39877
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q39877
1,2-Dichloropropane	ND	1	<0.5	µg/L	Q39877
1,3-Dichlorobenzene	ND	1	<0.5	µg/L	Q39877
1,4-Dichlorobenzene	ND	1	<0.5	µg/L	Q39877
Bromodichloromethane	ND	1	<0.5	µg/L	Q39877
Bromoform	ND	1	<0.5	µg/L	Q39877
Bromomethane	ND	5	<2.5	µg/L	Q39877
Carbon tetrachloride	ND	1	<0.5	µg/L	Q39877
Chlorobenzene	ND	1	<0.5	µg/L	Q39877
Chloroethane	ND	5	<2.5	µg/L	Q39877
Chloroform	ND	1	<0.5	µg/L	Q39877
Chloromethane	ND	5	<2.5	µg/L	Q39877
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q39877
cis-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q39877
Dibromochloromethane	ND	1	<0.5	µg/L	Q39877
Dichlorodifluoromethane	ND	5	<2.5	µg/L	Q39877
Methylene Chloride	ND	1	<0.5	µg/L	Q39877
Tetrachloroethene	ND	1	<0.5	µg/L	Q39877
trans-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q39877
trans-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q39877
Trichloroethene	ND	1	<0.5	µg/L	Q39877
Trichlorofluoromethane	ND	5	<2.5	µg/L	Q39877
Vinyl chloride	ND	5	<2.5	µg/L	Q39877
1,1,1-Trichloroethane	ND	1	<0.5	µg/L	Q39877
1,1,2,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q39877
1,1,2-Trichloroethane	ND	1	<0.5	µg/L	Q39877
1,1-Dichloroethane	ND	1	<0.5	µg/L	Q39877

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Project ID: Bridgeton Harbor

COC Group Number: G0309254
Date/Time Submitted: 3/11/200 9:20

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,1-Dichloroethene	ND	1	<0.5	µg/L	Q39877
1,2-Dibromoethane (EDB)	ND	1	<0.5	µg/L	Q39877
1,2-Dichlorobenzene	ND	1	<0.5	µg/L	Q39877
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q39877
1,2-Dichloropropane	ND	1	<0.5	µg/L	Q39877
1,3-Dichlorobenzene	ND	1	<0.5	µg/L	Q39877
1,4-Dichlorobenzene	ND	1	<0.5	µg/L	Q39877
Benzene	ND	0.5	<0.25	µg/L	Q39877
Bromodichloromethane	ND	1	<0.5	µg/L	Q39877
Bromoform	ND	1	<0.5	µg/L	Q39877
Bromomethane	ND	5	<2.5	µg/L	Q39877
Carbon tetrachloride	ND	1	<0.5	µg/L	Q39877
Chlorobenzene	ND	1	<0.5	µg/L	Q39877
Chloroethane	ND	5	<2.5	µg/L	Q39877
Chloroform	ND	1	<0.5	µg/L	Q39877
Chloromethane	ND	5	<2.5	µg/L	Q39877
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q39877
cis-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q39877
Dibromochloromethane	ND	1	<0.5	µg/L	Q39877
Dichlorodifluoromethane	ND	5	<2.5	µg/L	Q39877
Ethylbenzene	ND	1	<0.5	µg/L	Q39877
Isopropyl ether (IPE)	ND	5	<2.5	µg/L	Q39877
m,p-Xylenes	ND	2	<1	µg/L	Q39877
Methyl t-butyl ether (MTBE)	ND	5	<2.5	µg/L	Q39877
Methylene Chloride	ND	1	<0.5	µg/L	Q39877
Naphthalene	ND	1	<0.5	µg/L	Q39877
o-Xylene	ND	1	<0.5	µg/L	Q39877
Tetrachloroethene	ND	1	<0.5	µg/L	Q39877
Toluene	ND	1	<0.5	µg/L	Q39877
trans-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q39877
trans-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q39877
Trichloroethene	ND	1	<0.5	µg/L	Q39877
Trichlorofluoromethane	ND	5	<2.5	µg/L	Q39877
Vinyl chloride	ND	1	<0.5	µg/L	Q39877

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID

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P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor

COC Group Number: G0309254
Date/Time Submitted: 3/11/200 9:20

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,1,1-Trichloroethane	23.216	20	µg/L	116	41-138	Q39877
1,1,2,2-Tetrachloroethane	18.134	20	µg/L	91	10-184	Q39877
1,1,2-Trichloroethane	20.885	20	µg/L	104	39-136	Q39877
1,1-Dichloroethane	21.385	20	µg/L	107	47-132	Q39877
1,1-Dichloroethene	25.499	20	µg/L	127	28-167	Q39877
1,2-Dibromoethane (EDB)	18.836	20	µg/L	94	78-131	Q39877
1,2-Dichlorobenzene	20.254	20	µg/L	101	37-154	Q39877
1,2-Dichloroethane	23.747	20	µg/L	119	51-147	Q39877
1,2-Dichloropropane	23.61	20	µg/L	118	44-156	Q39877
1,3-Dichlorobenzene	20.05	20	µg/L	100	50-141	Q39877
1,4-Dichlorobenzene	21.309	20	µg/L	107	42-143	Q39877
Benzene	21.531	20	µg/L	108	39-150	Q39877
Bromodichloromethane	23.538	20	µg/L	118	42-172	Q39877
Bromoform	18.509	20	µg/L	93	13-159	Q39877
Bromomethane	18.987	20	µg/L	95	10-144	Q39877
Carbon tetrachloride	25.598	20	µg/L	128	43-143	Q39877
Chlorobenzene	19.713	20	µg/L	99	38-150	Q39877
Chloroethane	22.786	20	µg/L	114	46-137	Q39877
Chloroform	22.894	20	µg/L	114	49-133	Q39877
Chloromethane	24.438	20	µg/L	122	10-193	Q39877
cis-1,2-Dichloroethene	22.398	20	µg/L	112	62-145	Q39877
cis-1,3-Dichloropropene	22.427	20	µg/L	112	22-178	Q39877
Dibromochloromethane	19.838	20	µg/L	99	24-191	Q39877
Dichlorodifluoromethane	22.24	20	µg/L	111	48-148	Q39877
Ethylbenzene	21.86	20	µg/L	109	32-160	Q39877
Isopropyl ether (IPE)	19.911	20	µg/L	100	61-134	Q39877
m,p-Xylenes	42.782	40	µg/L	107	69-130	Q39877
Methyl t-butyl ether (MTBE)	20.725	20	µg/L	104	74-130	Q39877
Methylene Chloride	22.786	20	µg/L	114	25-162	Q39877
Naphthalene	19.487	20	µg/L	97	60-136	Q39877
o-Xylene	21.572	20	µg/L	108	66-129	Q39877
Tetrachloroethene	22.149	20	µg/L	111	26-162	Q39877
Toluene	21.424	20	µg/L	107	46-148	Q39877
trans-1,2-Dichloroethene	22.207	20	µg/L	111	38-155	Q39877
trans-1,3-Dichloropropene	21.032	20	µg/L	105	22-178	Q39877
Trichloroethene	22.831	20	µg/L	114	35-146	Q39877

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Full Service Analytical & Environmental Solutions

Level II QC Report

3/27/2009

Avolis Engineering P.A.
Attn: Joe Avolis
P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor

COC Group Number: G0309254
Date/Time Submitted: 3/11/200 9:20

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Trichlorofluoromethane	24.67	20	µg/L	123	21-156	Q39877
Vinyl chloride	22.596	20	µg/L	113	28-163	Q39877

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
240108	1,1,1-Trichloroethane	89.304	80	µg/L	112	41-138	Q39877
	1,1,2,2-Tetrachloroethane	85.076	80	µg/L	106	10-184	Q39877
	1,1,2-Trichloroethane	83.388	80	µg/L	104	39-136	Q39877
	1,1-Dichloroethane	82.828	80	µg/L	104	47-132	Q39877
	1,1-Dichloroethene	100.284	80	µg/L	125	28-167	Q39877
	1,2-Dibromoethane (EDB)	90.324	80	µg/L	113	78-131	Q39877
	1,2-Dichlorobenzene	81.504	80	µg/L	102	37-154	Q39877
	1,2-Dichloroethane	89.296	80	µg/L	112	51-147	Q39877
	1,2-Dichloropropane	86.704	80	µg/L	108	44-156	Q39877
	1,3-Dichlorobenzene	78.964	80	µg/L	99	50-141	Q39877
	1,4-Dichlorobenzene	84.212	80	µg/L	105	42-143	Q39877
	Benzene	85.368	80	µg/L	107	39-150	Q39877
	Bromodichloromethane	84.712	80	µg/L	106	42-172	Q39877
	Bromoform	78.524	80	µg/L	98	13-159	Q39877
	Bromomethane	82.516	80	µg/L	103	10-144	Q39877
	Carbon tetrachloride	94.004	80	µg/L	118	43-143	Q39877
	Chlorobenzene	78.692	80	µg/L	98	38-150	Q39877
	Chloroethane	90.16	80	µg/L	113	46-137	Q39877
	Chloroform	90.116	80	µg/L	113	49-133	Q39877
	Chloromethane	97.9	80	µg/L	122	10-193	Q39877
	cis-1,2-Dichloroethene	89.664	80	µg/L	112	57-137	Q39877
	cis-1,3-Dichloropropene	81.2	80	µg/L	102	22-178	Q39877
	Dibromochloromethane	79.98	80	µg/L	100	24-191	Q39877
	Dichlorodifluoromethane	86.248	80	µg/L	108	47-143	Q39877
	Ethylbenzene	85.132	80	µg/L	106	32-160	Q39877
	Isopropyl ether (IPE)	78.892	80	µg/L	99	60-132	Q39877
	m,p-Xylenes	166.964	160	µg/L	104	59-126	Q39877
	Methyl t-butyl ether (MTBE)	84.184	80	µg/L	105	73-130	Q39877
	Methylene Chloride	90.308	80	µg/L	113	25-162	Q39877
	Naphthalene	74.992	80	µg/L	94	58-132	Q39877
	o-Xylene	70.944	80	µg/L	89	62-125	Q39877
	Tetrachloroethene	85.8	80	µg/L	107	26-162	Q39877

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Level II QC Report

3/27/2009

Avolis Engineering P.A.
Attn: Joe Avolis
P.O. Box 15564
New Bern, NC 28563

Project ID: Bridgeton Harbor

COC Group Number: G0309254
Date/Time Submitted: 3/11/200 9:20

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
240108 Toluene	85.228	80	µg/L	107	46-148	Q39877
trans-1,2-Dichloroethene	87.66	80	µg/L	110	38-155	Q39877
trans-1,3-Dichloropropene	76.768	80	µg/L	96	22-178	Q39877
Trichloroethene	84.22	80	µg/L	105	35-146	Q39877
Trichlorofluoromethane	98.332	80	µg/L	123	21-156	Q39877
Vinyl chloride	110.768	80	µg/L	138	28-163	Q39877

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
240108 1,1,1-Trichloroethane	99.092	80	µg/L	124	41-138	10	0 - 16	Q39877
1,1,2,2-Tetrachloroethane	79.056	80	µg/L	99	10-184	7	0 - 14	Q39877
1,1,2-Trichloroethane	89.292	80	µg/L	112	39-136	7	0 - 13	Q39877
1,1-Dichloroethane	92.888	80	µg/L	116	47-132	11	0 - 14	Q39877
1,1-Dichloroethene	95.936	80	µg/L	120	28-167	4	0 - 17	Q39877
1,2-Dibromoethane (EDB)	95.868	80	µg/L	120	78-131	6	0 - 13	Q39877
1,2-Dichlorobenzene	79.716	80	µg/L	100	37-154	2	0 - 15	Q39877
1,2-Dichloroethane	99.4	80	µg/L	124	51-147	11	0 - 15	Q39877
1,2-Dichloropropane	89.24	80	µg/L	112	44-156	3	0 - 12	Q39877
1,3-Dichlorobenzene	77.428	80	µg/L	97	50-141	2	0 - 13	Q39877
1,4-Dichlorobenzene	82.924	80	µg/L	104	42-143	2	0 - 14	Q39877
Benzene	82.884	80	µg/L	104	39-150	3	0 - 12	Q39877
Bromodichloromethane	88.096	80	µg/L	110	42-172	4	0 - 11	Q39877
Bromoform	78.792	80	µg/L	98	13-159	0	0 - 10	Q39877
Bromomethane	80.068	80	µg/L	100	10-144	3	0 - 21	Q39877
Carbon tetrachloride	101.38	80	µg/L	127	43-143	8	0 - 14	Q39877
Chlorobenzene	76.976	80	µg/L	96	38-150	2	0 - 12	Q39877
Chloroethane	89.768	80	µg/L	112	46-137	0	0 - 18	Q39877
Chloroform	97.644	80	µg/L	122	49-133	8	0 - 13	Q39877
Chloromethane	95.652	80	µg/L	120	10-193	2	0 - 21	Q39877
cis-1,2-Dichloroethene	85.584	80	µg/L	107	57-137	5	0 - 15	Q39877
cis-1,3-Dichloropropene	86.396	80	µg/L	108	22-178	6	0 - 13	Q39877
Dibromochloromethane	80.268	80	µg/L	100	24-191	0	0 - 10	Q39877
Dichlorodifluoromethane	93.712	80	µg/L	117	47-143	8	0 - 21	Q39877
Ethylbenzene	82.808	80	µg/L	104	32-160	3	0 - 10	Q39877
Isopropyl ether (IPE)	78.896	80	µg/L	99	60-132	0	0 - 15	Q39877
m,p-Xylenes	164.324	160	µg/L	103	59-126	2	0 - 11	Q39877
Methyl t-butyl ether (MTBE)	86.18	80	µg/L	108	73-130	2	0 - 16	Q39877

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New Bern, NC 28563

Project ID: Bridgeton Harbor

COC Group Number: G0309254
Date/Time Submitted: 3/11/200 9:20

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %		RPD Range %	QC Batch ID
240108	Methylene Chloride	97.732	80	µg/L	122	25-162	8		0 - 16	Q39877
	Naphthalene	73.368	80	µg/L	92	58-132	2		0 - 17	Q39877
	o-Xylene	84.712	80	µg/L	106	62-125	18	#	0 - 13	Q39877
	Tetrachloroethene	83.408	80	µg/L	104	26-162	3		0 - 14	Q39877
	Toluene	82.504	80	µg/L	103	46-148	3		0 - 11	Q39877
	trans-1,2-Dichloroethene	83.504	80	µg/L	104	38-155	5		0 - 17	Q39877
	trans-1,3-Dichloropropene	84.332	80	µg/L	105	22-178	9		0 - 10	Q39877
	Trichloroethene	81.572	80	µg/L	102	35-146	3		0 - 14	Q39877
	Trichlorofluoromethane	99.028	80	µg/L	124	21-156	1		0 - 19	Q39877
	Vinyl chloride	112.324	80	µg/L	140	28-163	1		0 - 20	Q39877

Gasoline Range Organics (GRO) by GC-FID, method 8015B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q39979

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Gasoline Range Organics (GRO)	37.0	50	mg/kg	74	67-116	Q39979

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
240679	Gasoline Range Organics (GRO)	30.5	50	mg/kg	61	57-113	Q39979

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
240679	Gasoline Range Organics (GRO)	32.5	50	mg/kg	65	57-113	6	0 - 23	Q39979

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New Bern, NC 28563

Project ID: Bridgeton Harbor

COC Group Number: G0309254
Date/Time Submitted: 3/11/200 9:20

Diesel Range Organics (DRO) by GC-FID, method 8015B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg	Q40036

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Diesel Range Organics (DRO)	65.1	80	mg/kg	81	55-109	Q40036

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
240679 Diesel Range Organics (DRO)	56.9	80	mg/kg	71	50-117	Q40036

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
240679 Diesel Range Organics (DRO)	65.8	80	mg/kg	82	50-117	15	0 - 24	Q40036

#-See Case Narrative

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CHAIN OF CUSTODY RECORD

PAGE ___ OF ___ QUOTE # TO ENSURE PROPER BILLING: 08050

Client Company Name: Avolis Engineering, PA
Report To/Contact Name: JOE Avolis
Reporting Address: PO Box 15564
New Bern, NC 28561
Phone: (252) 633-0068 Fax (Yes) (No): 633-6507
Email (Yes) (No) Email Address: avolisengineering@embarqmail.com
EDD Type: PDF ✓ Excel ___ Other ___
Site Location Name: Bridgeton HARBOUR
Site Location Physical Address: 1101 'B' Street
Bridgeton NC

Project Name: ~~HARBORSIDE~~ Bridgeton HARBOUR
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: SAME
Address: ___

Purchase Order No./Billing Reference ___
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 2	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

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

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED: CO/TOX	MTBE, TPH, EDB	MTBE, TPH, EDB	DRO	GRO		REMARKS	PRISM LAB ID NO.
08050-MW1	3/10/09	0930	GW	VOA	3	40ml		X	X	X					240082
08050-MW2	3/10/09	1000	GW	VOA	3	40ml		X	X	X					240083
08050-MW3	3/10/09	1035	GW	VOA	3	40ml		X	X	X					240084
08050-MW1(S)	3/10/09	1100	SOIL	CG	1	100 200	None				X				240085
08050-MW1(S)	3/10/09	1100	SOIL	VOA	2	40ml	Methanol					X		08050-MW1(S)	↓
08050-MW2(S)	3/10/09	1125	SOIL	CG	1	100 200	None				X				240086
08050-MW2(S)	3/10/09	1125	SOIL	VOA	2	40ml	Methanol					X			↓
08050-MW3(S)	3/10/09	1145	SOIL	CG	1	100 200	None				X				240087
08050-MW3(S)	3/10/09	1145	SOIL	VOA	2	40ml	Methanol					X			↓

Sampler's Signature [signature] Sampled By (Print Name) Joseph C. Avolis Affiliation Avolis Engineering PA

PRESS DOWN FIRMLY - 3 COPIES

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

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]			
Relinquished By: (Signature)	Received By: (Signature)	Date	
	[signature]		
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
		3/11/09	920

Additional Comments:

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

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☒ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other ___
COC Group No. G0309254

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

SEE REVERSE FOR TERMS & CONDITIONS

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

ORIGINAL