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Section	SUPERFUND
Program	IHS (IHS)
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Highlands Environmental Solutions, Inc.
8410-D Falls of Neuse Road; Raleigh, NC 27615
Phone: 919-848-3155 / Fax: 919-848-4265 / www.hesnc.com

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July 7, 2010

Mr. S. Wade Kirby
NCDENR – Inactive Hazardous Sites Branch
401 Oberlin Road, Suite 150
Raleigh, NC 27699-1646

Subject: Submittal of Request for Additional Information
Former Nello Teer Quarry; Durham County
NONCD 0002873
NCDENR Incident #9357
HES Project #57003

Dear Mr. Kirby:

On behalf of our client, Hanson Aggregates (Hanson), Highlands Environmental Solutions, Inc. (HES) hereby submits the enclosed requested information for the above referenced site. The requested information, as listed below, is provided within this submittal based on your request dated May 4, 2010.

1. *Have all the onsite water supply wells been abandoned? Files transferred to the Branch from the Division of Water Quality's Aquifer Protection Section (APS) did not contain well abandonment reports for the water supply wells. Please forward this information to the branch for review.*

   HES Response: Documentation with regards to well abandonment could not be obtained. However, the locations of the water supply wells were identified and photographs taken to document inactivity. Copies of the photographs have been included as an attachment. (**Attachment A**)

2. *The February 22, 2010 Groundwater Monitoring Report indicates six water supply wells are within 1500 feet of the site and still in use. Have these wells been sampled by Hanson Aggregates? If not, the wells will need to be sampled and the data provided to the Branch.*

   HES Response: HES obtained verbal permission from well owners to sample subject wells. The supply wells were sampled on May 21 and June 3, 2010. Included in **Table 1 (Attachment B)** is a summary of the information for the six water supply wells. The locations of the water supply wells are depicted on **Figure 1(Attachment C)**. A copy of the complete laboratory data report is also included as a separate attachment. Analytical results from the sampled wells identified detectable concentrations of acetone and methylene chloride which attributed to laboratory artifacts. These detected concentrations are below NCDENR 2L standards. Other detected compounds detected in water well samples were:
   - Chloroform in WSW-E. A source for chloroform has not been determined, but may be a chlorination by-product.
   - 1,1 Dichloropropane in WSW-E. A source for this compound has not been established, but is not considered to be related to the Hanson site.

- MTBE in WSW-B, WSW-D, WSW-E and WSW-F. MTBE is a compound of gasoline; however, the detected concentrations were very low, and are not considered to be related to the Hanson site given the locations of the subject wells.
- Toluene and Xylenes in WSW-D. These compounds are components of gasoline. However, the detected concentrations were very low and are not considered to be related to the Hanson site, given the location of subject water supply well.

Activities of associated with property activities and water supply well identification:

- WSW-A: Mechanical repair shop.
- WSW-B: Mechanical repair shop
- WSW-C: Residential property
- WSW-D: Metal works facility
- WSW-E: Automotive repair facility (additionally, pole-mounted electric transformer located directly over water supply well)
- WSW-F: Construction contractor

The Detection of regulated constituents in samples collected from water supply wells WSW-B, WSW-D, WSW-E, and WSW-F may be related to land use activities on these properties.

Should you have any questions or require additional information regarding this submittal, or the project in general, please contact Bill Frederick at (919) 848-3155, ext. 22.

Sincerely,

Highlands Environmental Solutions, Inc.

William C Frederick
Senior Environmental Scientist

Joe Beaman, P.G., RSM
Principal Geologist

NORTH CAROLINA LICENSED 7/7/10 SEAL 1468 GEOLOGIST BOBBY JOE BEAMAN

Attachments

cc: Mr. Steve Edgerton – Hanson Aggregates North America
File

ATTACHMENT A

Highlands
Environmental
Solutions, Inc.

Photograph Number 1: Hanson water supply well house Looking North

Photograph Number 1: Hanson water Supply well house interior

ATTACHMENT B

Table 1

Hanson Denfield Quarry
HES Project #57001

Summary of Water Supply Wells

WELL ID	Well Owner/User	Parcel #	Address	Phone Number	water meter	Well In Use
WSW-A	ROBINS DOUGLAS M	177621	4918 DENFIELD ST	919-477-5375	No	Yes
WSW-B	ROBINS DOUGLAS M	177612	5010 DENFIELD ST	919-477-5375	No	Yes
WSW-C	BARTELL JULIUS TRAVIS BARTELL CHERI DIANE	172634	4911 DENFIELD ST		No	Yes
WSW-D	THOMAS RODNEY T	177630	1002 COMMUNICATION DR	919-471-6852	No	Yes
WSW-E	HARRIS HARVEY L	177629	1003 COMMUNICATION DR	919-477-8706	No	Yes
WSW-F	WARD DONALD W	177632	1006 COMMUNICATION DR	919-477-0471	No	Yes
Hanson WSW	HANSON				No	No

Table 2

Hanson Denfield Quarry
HES Project #57001

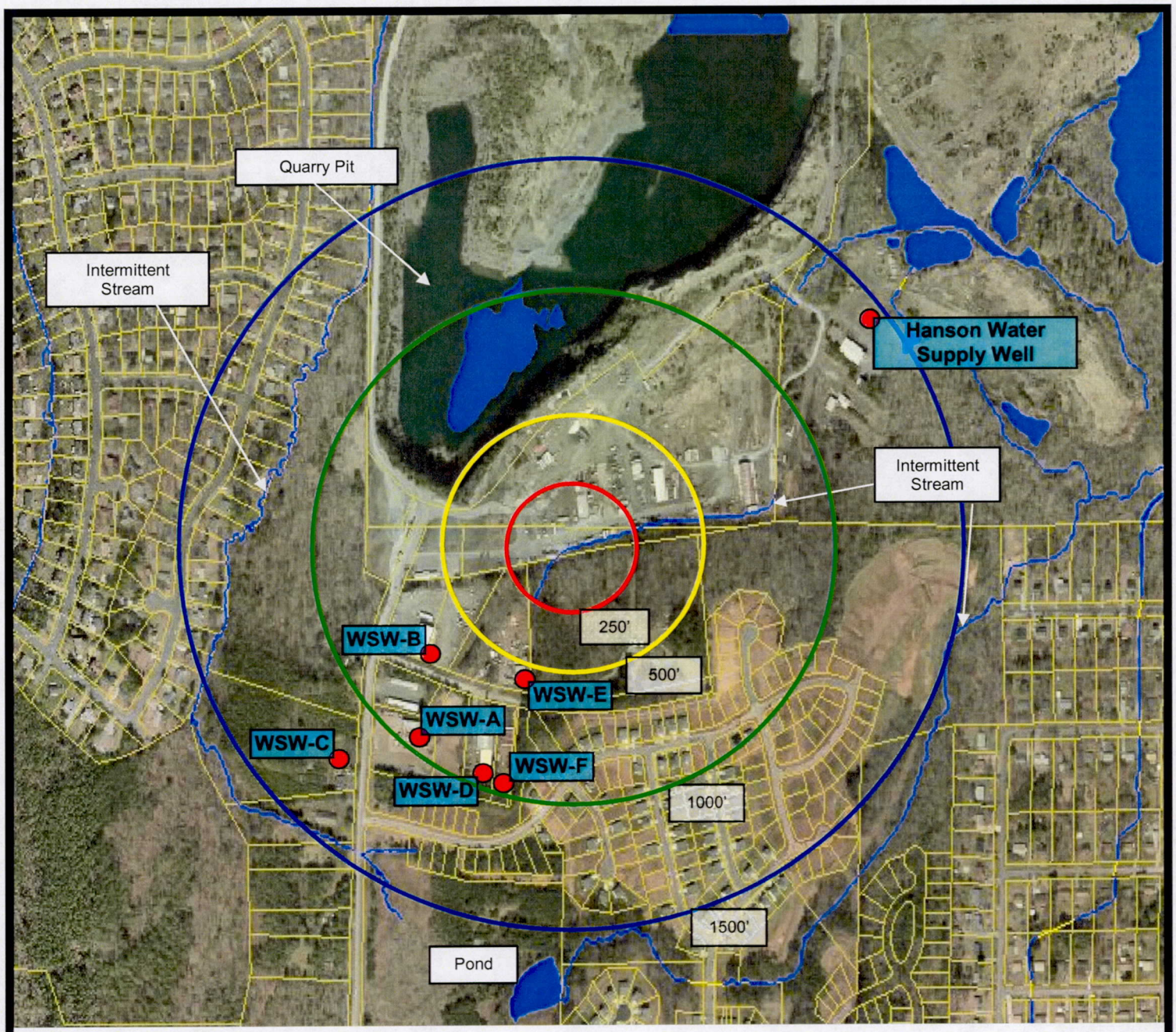
Summary of Analytical Data
(Water Supply Well Samples)

Analytical Method (e.g., VOC by EPA 8260B) →		6210d (µg/l)							625 (µg/l)
Contaminant of Concern →									
Well Number	Date of Collection	Acetone	Chloroform	1,2-Dichloropropane	Methyl Chloride	Methyl tert-butyl ether	Toluene	Xylenes	Analyzed Compounds
WSW-A	5/21/2010	5.1[J]	ND	ND	ND	ND	ND	ND	ND
WSW-B	5/21/2010	9.2[J]	ND	ND	0.41[J]	0.78	ND	ND	ND
WSW-C	5/21/2010	2.7[J]	ND	ND	0.33[J]	ND	ND	ND	ND
WSW-D	6/3/2010	9.3[J]	ND	ND	0.28[J]	0.15[J]	1.0[J]	0.38[J]	ND
WSW-E	5/21/2010	11.8	0.2[J]	1.3[J]	ND	0.59	ND	ND	ND
WSW-F	5/21/2010	6.1[J]	ND	ND	0.35[J]	1.7	ND	ND	ND
North Carolina 2L Quality Standard (ug/L)		6000	70	0.6	5	20	600	500	CS

NOTES:

ND - Denotes not detectable at dection limit.
CS - Denotes compound specific.
Bold - Denotes concentration exeeds North Carolina 2L Quality Standards
[J] - Indicates an estimated value. Compound found in QC blank

ATTACHMENT C



Approximate Scale

0 — 735 feet — 1470

Confirmed water supply well location.

Receptor Survey Diagram

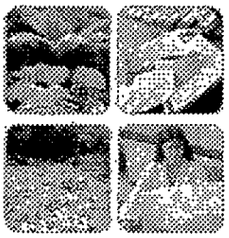
Highlands Environmental Solutions, Inc.

Project Name	**Former Nello Teer Quarry** **5013 Denfield Street; Durham, North Carolina**
Client	Hanson Aggregates of North America Irving, Texas
Project #	57003
Drawn by	TD
Scale	As shown
Date	8-14-08
Fig. #	**1**

ATTACHMENT D

Southeast ACCUTEST Laboratories

06/02/10



Technical Report for

Highlands Environmental Solutions, Inc

Hanson; Durham, NC

57001

Accutest Job Number: F73898

Sampling Date: 05/21/10

Report to:

Highlands Environmental Solutions, Inc
8410-D Falls of Neuse Rd
Raleigh, NC 27615
jbeaman@hesnc.com

ATTN: Joe Beaman

Total number of pages in report: **42**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956 2006

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Sample Summary

Highlands Environmental Solutions, Inc

Job No: F73898

Hanson; Durham, NC
Project No: 57001

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F73898-1	05/21/10	12:05 WF	05/22/10	AQ	Water	WSW-A
F73898-2	05/21/10	11:30 WF	05/22/10	AQ	Water	WSW-B
F73898-3	05/21/10	13:40 WF	05/22/10	AQ	Water	WSW-C
F73898-4	05/21/10	12:35 WF	05/22/10	AQ	Water	WSW-E
F73898-5	05/21/10	13:10 WF	05/22/10	AQ	Water	WSW-F

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-A		
Lab Sample ID:	F73898-1	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	SM 6200B	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A013698.D	1	05/27/10	TD	n/a	n/a	VA504
Run #2 [a]	A013671.D	1	05/26/10	TD	n/a	n/a	VA503

	Purge Volume
Run #1	25.0 ml
Run #2	25.0 ml

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.1	10	2.0	ug/l	J
71-43-2	Benzene	ND	0.50	0.11	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.12	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.12	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.11	ug/l	
75-25-2	Bromoform	ND	0.50	0.25	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.10	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.10	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.11	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.11	ug/l	
75-00-3	Chloroethane	ND	0.50	0.14	ug/l	
67-66-3	Chloroform	ND	0.50	0.18	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.11	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.11	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.10	ug/l	
108-20-3	Di-Isopropyl ether	ND	0.50	0.12	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.14	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.11	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.11	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.11	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.12	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WSW-A		
Lab Sample ID:	F73898-1	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	SM 6200B	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.10	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.11	ug/l	
64-17-5	Ethyl Alcohol	ND	100	20	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.10	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.5	1.0	ug/l	
74-83-9	Methyl bromide	ND	0.50	0.15	ug/l	
74-87-3	Methyl chloride	ND	0.50	0.15	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	2.5	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.12	ug/l	
91-20-3	Naphthalene	ND	0.50	0.11	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.11	ug/l	
100-42-5	Styrene	ND	0.50	0.10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.11	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.11	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.12	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.13	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.13	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	0.21	ug/l	
95-47-6	o-Xylene	ND	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	105%	70-130%
17060-07-0	1,2-Dichloroethane-D4	101%	103%	70-130%
2037-26-5	Toluene-D8	103%	102%	70-130%
460-00-4	4-Bromofluorobenzene	104%	103%	70-130%

(a) Confirmation run for internal standard areas.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-A		
Lab Sample ID:	F73898-1	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U018736.D	1	05/29/10	NAF	05/27/10	OP33038	SU906
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	24	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.95	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.95	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.95	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.95	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	0.95	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.95	ug/l	
	3&4-Methylphenol	ND	4.8	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.95	ug/l	
100-02-7	4-Nitrophenol	ND	24	9.5	ug/l	
87-86-5	Pentachlorophenol	ND	24	9.5	ug/l	
108-95-2	Phenol	ND	4.8	0.95	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.95	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.95	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.95	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.95	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.95	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.95	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.95	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.95	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WSW-A		
Lab Sample ID:	F73898-1	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.95	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.95	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.95	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.95	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.95	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.95	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.95	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.9	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	1.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	0.95	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.95	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	2.5	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	4.7	ug/l	
67-72-1	Hexachloroethane	ND	4.8	2.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.95	ug/l	
78-59-1	Isophorone	ND	4.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.95	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.95	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		14-62%
4165-62-2	Phenol-d5	18%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-B		
Lab Sample ID:	F73898-2	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	SM 6200B	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A013699.D	1	05/27/10	TD	n/a	n/a	VA504
Run #2 [a]	A013672.D	1	05/26/10	TD	n/a	n/a	VA503

	Purge Volume
Run #1	25.0 ml
Run #2	25.0 ml

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	9.2	10	2.0	ug/l	J
71-43-2	Benzene	ND	0.50	0.11	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.12	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.12	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.11	ug/l	
75-25-2	Bromoform	ND	0.50	0.25	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.10	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.10	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.11	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.11	ug/l	
75-00-3	Chloroethane	ND	0.50	0.14	ug/l	
67-66-3	Chloroform	ND	0.50	0.18	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.11	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.11	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.10	ug/l	
108-20-3	Di-Isopropyl ether	ND	0.50	0.12	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.14	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.11	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.11	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.11	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.12	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WSW-B		
Lab Sample ID:	F73898-2	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	SM 6200B	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.10	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.11	ug/l	
64-17-5	Ethyl Alcohol	ND	100	20	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.10	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.5	1.0	ug/l	
74-83-9	Methyl bromide	ND	0.50	0.15	ug/l	
74-87-3	Methyl chloride	0.41	0.50	0.15	ug/l	J
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	2.5	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.78	0.50	0.12	ug/l	
91-20-3	Naphthalene	ND	0.50	0.11	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.11	ug/l	
100-42-5	Styrene	ND	0.50	0.10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.11	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.11	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.12	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.13	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.13	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	0.21	ug/l	
95-47-6	o-Xylene	ND	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	106%	70-130%
17060-07-0	1,2-Dichloroethane-D4	100%	107%	70-130%
2037-26-5	Toluene-D8	103%	101%	70-130%
460-00-4	4-Bromofluorobenzene	105%	105%	70-130%

(a) Confirmation run for internal standard areas.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-B		
Lab Sample ID:	F73898-2	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U018739.D	1	05/29/10	NAF	05/27/10	OP33038	SU906
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	24	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.95	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.95	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.95	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.95	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	0.95	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.95	ug/l	
	3&4-Methylphenol	ND	4.8	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.95	ug/l	
100-02-7	4-Nitrophenol	ND	24	9.5	ug/l	
87-86-5	Pentachlorophenol	ND	24	9.5	ug/l	
108-95-2	Phenol	ND	4.8	0.95	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.95	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.95	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.95	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.95	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.95	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.95	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.95	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.95	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WSW-B		
Lab Sample ID:	F73898-2	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.95	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.95	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.95	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.95	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.95	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.95	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.95	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.9	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	1.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	0.95	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.95	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	2.5	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	4.7	ug/l	
67-72-1	Hexachloroethane	ND	4.8	2.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.95	ug/l	
78-59-1	Isophorone	ND	4.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.95	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.95	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		14-62%
4165-62-2	Phenol-d5	18%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-C		
Lab Sample ID:	F73898-3	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	SM 6200B	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A013700.D	1	05/27/10	TD	n/a	n/a	VA504
Run #2 [a]	A013673.D	1	05/26/10	TD	n/a	n/a	VA503

	Purge Volume
Run #1	25.0 ml
Run #2	25.0 ml

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	2.7	10	2.0	ug/l	J
71-43-2	Benzene	ND	0.50	0.11	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.12	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.12	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.11	ug/l	
75-25-2	Bromoform	ND	0.50	0.25	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.10	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.10	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.11	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.11	ug/l	
75-00-3	Chloroethane	ND	0.50	0.14	ug/l	
67-66-3	Chloroform	ND	0.50	0.18	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.11	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.11	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.10	ug/l	
108-20-3	Di-Isopropyl ether	ND	0.50	0.12	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.14	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.11	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.11	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.11	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.12	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WSW-C		
Lab Sample ID:	F73898-3	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	SM 6200B	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.10	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.11	ug/l	
64-17-5	Ethyl Alcohol	ND	100	20	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.10	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.5	1.0	ug/l	
74-83-9	Methyl bromide	ND	0.50	0.15	ug/l	
74-87-3	Methyl chloride	0.33	0.50	0.15	ug/l	J
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	2.5	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.12	ug/l	
91-20-3	Naphthalene	ND	0.50	0.11	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.11	ug/l	
100-42-5	Styrene	ND	0.50	0.10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.11	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.11	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.12	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.13	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.13	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	0.21	ug/l	
95-47-6	o-Xylene	ND	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	105%	70-130%
17060-07-0	1,2-Dichloroethane-D4	101%	104%	70-130%
2037-26-5	Toluene-D8	104%	102%	70-130%
460-00-4	4-Bromofluorobenzene	105%	105%	70-130%

(a) Confirmation run for internal standard areas.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-C		
Lab Sample ID:	F73898-3	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U018740.D	1	05/29/10	NAF	05/27/10	OP33038	SU906
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	24	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.95	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.95	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.95	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.95	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	0.95	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.95	ug/l	
	3&4-Methylphenol	ND	4.8	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.95	ug/l	
100-02-7	4-Nitrophenol	ND	24	9.5	ug/l	
87-86-5	Pentachlorophenol	ND	24	9.5	ug/l	
108-95-2	Phenol	ND	4.8	0.95	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.95	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.95	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.95	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.95	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.95	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.95	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.95	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.95	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WSW-C		
Lab Sample ID:	F73898-3	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.95	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.95	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.95	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.95	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.95	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.95	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.95	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.9	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	1.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	0.95	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.95	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	2.5	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	4.7	ug/l	
67-72-1	Hexachloroethane	ND	4.8	2.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.95	ug/l	
78-59-1	Isophorone	ND	4.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.95	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.95	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-62%
4165-62-2	Phenol-d5	19%		10-40%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	91%		39-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-E		
Lab Sample ID:	F73898-4	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	SM 6200B	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A013701.D	1	05/27/10	TD	n/a	n/a	VA504
Run #2 [a]	A013674.D	1	05/26/10	TD	n/a	n/a	VA503

	Purge Volume
Run #1	25.0 ml
Run #2	25.0 ml

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	11.8	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.11	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.12	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.12	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.11	ug/l	
75-25-2	Bromoform	ND	0.50	0.25	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.10	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.10	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.11	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.11	ug/l	
75-00-3	Chloroethane	ND	0.50	0.14	ug/l	
67-66-3	Chloroform	0.20	0.50	0.18	ug/l	J
95-49-8	o-Chlorotoluene	ND	0.50	0.11	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.11	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	ug/l	
78-87-5	1,2-Dichloropropane	1.3	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.10	ug/l	
108-20-3	Di-Isopropyl ether	ND	0.50	0.12	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.14	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.11	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.11	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.11	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.12	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WSW-E		
Lab Sample ID:	F73898-4	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	SM 6200B	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.10	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.11	ug/l	
64-17-5	Ethyl Alcohol	ND	100	20	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.10	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.5	1.0	ug/l	
74-83-9	Methyl bromide	ND	0.50	0.15	ug/l	
74-87-3	Methyl chloride	ND	0.50	0.15	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	2.5	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.59	0.50	0.12	ug/l	
91-20-3	Naphthalene	ND	0.50	0.11	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.11	ug/l	
100-42-5	Styrene	ND	0.50	0.10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.11	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.11	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.12	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.13	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.13	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	0.21	ug/l	
95-47-6	o-Xylene	ND	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	106%	70-130%
17060-07-0	1,2-Dichloroethane-D4	101%	104%	70-130%
2037-26-5	Toluene-D8	104%	101%	70-130%
460-00-4	4-Bromofluorobenzene	106%	104%	70-130%

(a) Confirmation run for internal standard areas.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-E		
Lab Sample ID:	F73898-4	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U018741.D	1	05/29/10	NAF	05/27/10	OP33038	SU906
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	1.0	ug/l	
	3&4-Methylphenol	ND	5.0	1.6	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	1.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	1.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WSW-E		
Lab Sample ID:	F73898-4	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	1.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	1.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.6	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	4.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	1.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	1.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	WSW-F		
Lab Sample ID:	F73898-5	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	SM 6200B	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A013702.D	1	05/27/10	TD	n/a	n/a	VA504
Run #2 [a]	A013670.D	1	05/26/10	TD	n/a	n/a	VA503

	Purge Volume
Run #1	25.0 ml
Run #2	25.0 ml

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	6.1	10	2.0	ug/l	J
71-43-2	Benzene	ND	0.50	0.11	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.12	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.12	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.11	ug/l	
75-25-2	Bromoform	ND	0.50	0.25	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.10	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.10	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.11	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.11	ug/l	
75-00-3	Chloroethane	ND	0.50	0.14	ug/l	
67-66-3	Chloroform	ND	0.50	0.18	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.11	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.11	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.10	ug/l	
108-20-3	Di-Isopropyl ether	ND	0.50	0.12	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.14	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.11	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.11	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.11	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.12	ug/l	

ND = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-F		
Lab Sample ID:	F73898-5	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	SM 6200B	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.10	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.11	ug/l	
64-17-5	Ethyl Alcohol	ND	100	20	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.10	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.5	1.0	ug/l	
74-83-9	Methyl bromide	ND	0.50	0.15	ug/l	
74-87-3	Methyl chloride	0.35	0.50	0.15	ug/l	J
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	2.5	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.7	0.50	0.12	ug/l	
91-20-3	Naphthalene	ND	0.50	0.11	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.11	ug/l	
100-42-5	Styrene	ND	0.50	0.10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.11	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.11	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.12	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.13	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.13	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	0.21	ug/l	
95-47-6	o-Xylene	ND	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	107%	70-130%
17060-07-0	1,2-Dichloroethane-D4	100%	106%	70-130%
2037-26-5	Toluene-D8	105%	101%	70-130%
460-00-4	4-Bromofluorobenzene	104%	105%	70-130%

(a) Confirmation run for internal standard areas.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-F		
Lab Sample ID:	F73898-5	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U018742.D	1	05/29/10	NAF	05/27/10	OP33038	SU906
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	31	13	ug/l	
95-57-8	2-Chlorophenol	ND	6.3	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	6.3	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	6.3	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	6.3	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	31	13	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	13	1.3	ug/l	
95-48-7	2-Methylphenol	ND	6.3	1.3	ug/l	
	3&4-Methylphenol	ND	6.3	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	6.3	1.3	ug/l	
100-02-7	4-Nitrophenol	ND	31	13	ug/l	
87-86-5	Pentachlorophenol	ND	31	13	ug/l	
108-95-2	Phenol	ND	6.3	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	6.3	1.3	ug/l	
83-32-9	Acenaphthene	ND	6.3	1.3	ug/l	
208-96-8	Acenaphthylene	ND	6.3	1.3	ug/l	
120-12-7	Anthracene	ND	6.3	1.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	6.3	1.3	ug/l	
50-32-8	Benzo(a)pyrene	ND	6.3	1.3	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	6.3	1.3	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	6.3	1.3	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	6.3	1.3	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	6.3	1.3	ug/l	
85-68-7	Butyl benzyl phthalate	ND	6.3	1.3	ug/l	
100-51-6	Benzyl Alcohol	ND	6.3	1.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	6.3	1.3	ug/l	
106-47-8	4-Chloroaniline	ND	6.3	1.3	ug/l	
218-01-9	Chrysene	ND	6.3	1.3	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	6.3	1.3	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	6.3	1.3	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	6.3	1.3	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	6.3	1.3	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WSW-F		
Lab Sample ID:	F73898-5	**Date Sampled:**	05/21/10
Matrix:	AQ - Water	**Date Received:**	05/22/10
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	6.3	1.3	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	6.3	1.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	6.3	1.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	6.3	1.3	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	6.3	1.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	6.3	1.3	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	13	2.5	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	6.3	1.3	ug/l	
132-64-9	Dibenzofuran	ND	6.3	1.3	ug/l	
84-74-2	Di-n-butyl phthalate	ND	6.3	1.3	ug/l	
117-84-0	Di-n-octyl phthalate	ND	6.3	1.3	ug/l	
84-66-2	Diethyl phthalate	ND	6.3	2.5	ug/l	
131-11-3	Dimethyl phthalate	ND	6.3	1.4	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	6.3	2.5	ug/l	
206-44-0	Fluoranthene	ND	6.3	1.3	ug/l	
86-73-7	Fluorene	ND	6.3	1.3	ug/l	
118-74-1	Hexachlorobenzene	ND	6.3	1.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	6.3	3.3	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	13	6.1	ug/l	
67-72-1	Hexachloroethane	ND	6.3	2.8	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	6.3	1.3	ug/l	
78-59-1	Isophorone	ND	6.3	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	6.3	1.3	ug/l	
91-20-3	Naphthalene	ND	6.3	1.3	ug/l	
98-95-3	Nitrobenzene	ND	6.3	1.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	6.3	1.3	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.3	1.3	ug/l	
85-01-8	Phenanthrene	ND	6.3	1.3	ug/l	
129-00-0	Pyrene	ND	6.3	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	6.3	1.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

ACCUTEST

CHAIN OF CUSTODY

4405 Vineland Rd., Suite C15
Orlando, FL 32811
Phone: 407-425-6700 Fax: 407-425-0707

Page 1 of 1

Accutest Job #:
Accutest Control #: F73898

Client Information

Name: HES- Highlands
Address: 8410-D Falls of Neuse Rd.
City: Raleigh State: NC Zip: 27615
Send Report to: Jpeamark@hesnc.com
Email: wfrederick@hesnc.com

Facility Information

Project Name: ~~57001~~ HANSON
Location: DURHAM, NC
Project No: 57001
Phone #: 919-848-3155
FAX #: 919-848-4265

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation: NONE	HCL	HNO3	H2SO4	NaOH	DI H2O	NaHSO4	NaOH	6210D	625
(1) WSW-A	5/21/10	1200	WCF	W	6	X	X							X	X
(2) WSW-B		1130													
(3) WSW-C		1340													
~~(4) WSW-D~~															
(5) WSW-E (9)		~~1235~~													
(6) WSW-F (5)		1310													

Turnaround Time (Business Days)

[X] 5-7 Day STD
[ ] 3 Day *RUSH*
[ ] Other _____ (Days)
RUSH TAT is by Email only
Data unless previously approved.

Approved By:

Data Deliverable Information

[ ] Level I (Results only)
[ ] Level II (Results + QC)
[ ] Level III (Full Data Package less Raw Data)
[ ] Level IV (Full Data Package plus Raw Data)
[ ] EDD

Comments / Remarks

Sample Custody must be documented below each time samples change possession (including courier delivery).

Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:
1 [signature]	5/21/10; 1430	1 [signature]		2 FX		2 [signature] Accutest	05-22-10 1030
3		3		4		4	
5		5					

Lab use only; Custody Seal Intact: YES [ ] NO [ ] Cooler Temperature(s) °C 2.8 3.4

F73898: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F73898 CLIENT: HES PROJECT: Hanson

DATE/TIME RECEIVED: 05-22-2010 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7935 6604 2060

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

NUMBER OR LAB FILTERED METALS ? 0

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR +4
- [ ] OBSERVED TEMPS: 1.4 2.0
- [ ] CORRECTED TEMPS: 2.8 3.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE E.T. 05-22-10 REVIEWER SIGNATURE/DATE CL 5/22/10

NF 10/09 RECEIPT CONFIRMATION 100609 (2).xls

F73898: Chain of Custody
Page 2 of 2

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA504-MB	A013697.D	1	05/27/10	TD	n/a	n/a	VA504

The QC reported here applies to the following samples: **Method:** SM 6200B

F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.11	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.12	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.12	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.11	ug/l	
75-25-2	Bromoform	ND	0.50	0.25	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.10	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.10	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.11	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.11	ug/l	
75-00-3	Chloroethane	ND	0.50	0.14	ug/l	
67-66-3	Chloroform	ND	0.50	0.18	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.11	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.11	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.10	ug/l	
108-20-3	Di-Isopropyl ether	ND	0.50	0.12	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.14	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.11	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.11	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.11	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.12	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.10	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.11	ug/l	
64-17-5	Ethyl Alcohol	ND	100	20	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA504-MB	A013697.D	1	05/27/10	TD	n/a	n/a	VA504

The QC reported here applies to the following samples: **Method:** SM 6200B

F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	0.50	0.10	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.5	1.0	ug/l	
74-83-9	Methyl bromide	ND	0.50	0.15	ug/l	
74-87-3	Methyl chloride	ND	0.50	0.15	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	2.5	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.12	ug/l	
91-20-3	Naphthalene	ND	0.50	0.11	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.11	ug/l	
100-42-5	Styrene	ND	0.50	0.10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.11	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.11	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.12	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.13	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.13	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	0.21	ug/l	
95-47-6	o-Xylene	ND	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
17060-07-0	1,2-Dichloroethane-D4	100%	70-130%
2037-26-5	Toluene-D8	103%	70-130%
460-00-4	4-Bromofluorobenzene	106%	70-130%

Blank Spike Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA504-BS	A013696.D	1	05/27/10	TD	n/a	n/a	VA504

The QC reported here applies to the following samples: **Method:** SM 6200B

F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	25	34.7	139*	70-130
71-43-2	Benzene	5	6.0	120	70-130
108-86-1	Bromobenzene	5	5.5	110	70-130
74-97-5	Bromochloromethane	5	5.9	118	70-130
75-27-4	Bromodichloromethane	5	6.1	122	70-130
75-25-2	Bromoform	5	5.9	118	70-130
104-51-8	n-Butylbenzene	5	6.2	124	70-130
135-98-8	sec-Butylbenzene	5	5.6	112	70-130
98-06-6	tert-Butylbenzene	5	6.2	124	70-130
108-90-7	Chlorobenzene	5	5.7	114	70-130
75-00-3	Chloroethane	5	8.1	162*	60-140
67-66-3	Chloroform	5	5.8	116	70-130
95-49-8	o-Chlorotoluene	5	6.0	120	70-130
106-43-4	p-Chlorotoluene	5	5.8	116	70-130
56-23-5	Carbon tetrachloride	5	6.3	126	70-130
75-34-3	1,1-Dichloroethane	5	6.1	122	70-130
75-35-4	1,1-Dichloroethylene	5	7.5	150*	70-130
563-58-6	1,1-Dichloropropene	5	6.1	122	70-130
106-93-4	1,2-Dibromoethane	5	5.4	108	70-130
107-06-2	1,2-Dichloroethane	5	5.8	116	70-130
78-87-5	1,2-Dichloropropane	5	5.8	116	70-130
142-28-9	1,3-Dichloropropane	5	5.4	108	70-130
108-20-3	Di-Isopropyl ether	5	6.4	128	70-130
594-20-7	2,2-Dichloropropane	5	6.4	128	70-130
124-48-1	Dibromochloromethane	5	5.7	114	70-130
75-71-8	Dichlorodifluoromethane	5	5.9	118	60-140
156-59-2	cis-1,2-Dichloroethylene	5	5.8	116	70-130
10061-01-5	cis-1,3-Dichloropropene	5	6.3	126	70-130
541-73-1	m-Dichlorobenzene	5	5.6	112	70-130
95-50-1	o-Dichlorobenzene	5	5.5	110	70-130
106-46-7	p-Dichlorobenzene	5	5.6	112	70-130
156-60-5	trans-1,2-Dichloroethylene	5	6.1	122	70-130
10061-02-6	trans-1,3-Dichloropropene	5	6.0	120	70-130
100-41-4	Ethylbenzene	5	5.7	114	70-130
64-17-5	Ethyl Alcohol	500	484	97	70-130
591-78-6	2-Hexanone	25	26.3	105	70-130

Blank Spike Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA504-BS	A013696.D	1	05/27/10	TD	n/a	n/a	VA504

The QC reported here applies to the following samples: **Method:** SM 6200B

F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
98-82-8	Isopropylbenzene	5	5.3	106	70-130
99-87-6	p-Isopropyltoluene	5	5.4	108	70-130
108-10-1	4-Methyl-2-pentanone	25	27.8	111	70-130
74-83-9	Methyl bromide	5	7.7	154*	60-140
74-87-3	Methyl chloride	5	6.7	134	60-140
75-09-2	Methylene chloride	5	6.4	128	70-130
78-93-3	Methyl ethyl ketone	25	28.2	113	70-130
1634-04-4	Methyl Tert Butyl Ether	5	6.0	120	70-130
91-20-3	Naphthalene	5	5.3	106	70-130
103-65-1	n-Propylbenzene	5	6.0	120	70-130
100-42-5	Styrene	5	5.2	104	70-130
71-55-6	1,1,1-Trichloroethane	5	6.2	124	70-130
79-34-5	1,1,2,2-Tetrachloroethane	5	5.5	110	70-130
79-00-5	1,1,2-Trichloroethane	5	5.5	110	70-130
87-61-6	1,2,3-Trichlorobenzene	5	5.3	106	70-130
96-18-4	1,2,3-Trichloropropane	5	5.4	108	70-130
120-82-1	1,2,4-Trichlorobenzene	5	5.2	104	70-130
95-63-6	1,2,4-Trimethylbenzene	5	5.4	108	70-130
108-67-8	1,3,5-Trimethylbenzene	5	5.3	106	70-130
127-18-4	Tetrachloroethylene	5	5.7	114	70-130
108-88-3	Toluene	5	5.6	112	70-130
79-01-6	Trichloroethylene	5	5.9	118	70-130
75-69-4	Trichlorofluoromethane	5	6.0	120	60-140
75-01-4	Vinyl chloride	5	6.2	124	60-140
108-05-4	Vinyl Acetate	25	34.1	136*	70-130
	m,p-Xylene	10	12.0	120	70-130
95-47-6	o-Xylene	5	5.9	118	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
17060-07-0	1,2-Dichloroethane-D4	103%	70-130%
2037-26-5	Toluene-D8	96%	70-130%
460-00-4	4-Bromofluorobenzene	95%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F73899-5MS	A013715.D	250	05/27/10	TD	n/a	n/a	VA504
F73899-5MSD	A013716.D	250	05/27/10	TD	n/a	n/a	VA504
F73899-5	A013705.D	250	05/27/10	TD	n/a	n/a	VA504

The QC reported here applies to the following samples: **Method:** SM 6200B

F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

CAS No.	Compound	F73899-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		6250	8530	136*	8430	135*	1	70-130/20
71-43-2	Benzene	ND		1250	1530	122	1530	122	0	70-130/20
108-86-1	Bromobenzene	ND		1250	1370	110	1410	113	3	70-130/20
74-97-5	Bromochloromethane	ND		1250	1480	118	1480	118	0	70-130/20
75-27-4	Bromodichloromethane	ND		1250	1550	124	1540	123	1	70-130/20
75-25-2	Bromoform	ND		1250	1480	118	1470	118	1	70-130/20
104-51-8	n-Butylbenzene	ND		1250	1640	131*	1630	130	1	70-130/20
135-98-8	sec-Butylbenzene	ND		1250	1420	114	1420	114	0	70-130/20
98-06-6	tert-Butylbenzene	ND		1250	1580	126	1610	129	2	70-130/20
108-90-7	Chlorobenzene	ND		1250	1470	118	1460	117	1	70-130/20
75-00-3	Chloroethane	ND		1250	1950	156*	2110	169*	8	60-140/20
67-66-3	Chloroform	ND		1250	1470	118	1470	118	0	70-130/20
95-49-8	o-Chlorotoluene	ND		1250	1590	127	1600	128	1	70-130/20
106-43-4	p-Chlorotoluene	ND		1250	1450	116	1490	119	3	70-130/20
56-23-5	Carbon tetrachloride	ND		1250	1580	126	1600	128	1	70-130/20
75-34-3	1,1-Dichloroethane	ND		1250	1540	123	1540	123	0	70-130/20
75-35-4	1,1-Dichloroethylene	ND		1250	1980	158*	1980	158*	0	70-130/20
563-58-6	1,1-Dichloropropene	ND		1250	1550	124	1560	125	1	70-130/20
106-93-4	1,2-Dibromoethane	ND		1250	1360	109	1360	109	0	70-130/20
107-06-2	1,2-Dichloroethane	ND		1250	1500	120	1470	118	2	70-130/20
78-87-5	1,2-Dichloropropane	ND		1250	1490	119	1470	118	1	70-130/20
142-28-9	1,3-Dichloropropane	ND		1250	1390	111	1370	110	1	70-130/20
108-20-3	Di-Isopropyl ether	ND		1250	1560	125	1590	127	2	70-130/20
594-20-7	2,2-Dichloropropane	ND		1250	1550	124	1540	123	1	70-130/20
124-48-1	Dibromochloromethane	ND		1250	1400	112	1440	115	3	70-130/20
75-71-8	Dichlorodifluoromethane	ND		1250	1340	107	1450	116	8	60-140/20
156-59-2	cis-1,2-Dichloroethylene	ND		1250	1460	117	1500	120	3	70-130/20
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1560	125	1530	122	2	70-130/20
541-73-1	m-Dichlorobenzene	ND		1250	1430	114	1430	114	0	70-130/20
95-50-1	o-Dichlorobenzene	ND		1250	1420	114	1400	112	1	70-130/20
106-46-7	p-Dichlorobenzene	ND		1250	1450	116	1450	116	0	70-130/20
156-60-5	trans-1,2-Dichloroethylene	ND		1250	1550	124	1560	125	1	70-130/20
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1490	119	1500	120	1	70-130/20
100-41-4	Ethylbenzene	66.5	J	1250	1560	119	1560	119	0	70-130/20
64-17-5	Ethyl Alcohol	ND		125000	89100	71	87400	70	2	70-130/20
591-78-6	2-Hexanone	ND		6250	6490	104	6360	102	2	70-130/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F73899-5MS	A013715.D	250	05/27/10	TD	n/a	n/a	VA504
F73899-5MSD	A013716.D	250	05/27/10	TD	n/a	n/a	VA504
F73899-5	A013705.D	250	05/27/10	TD	n/a	n/a	VA504

The QC reported here applies to the following samples: **Method:** SM 6200B

F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

CAS No.	Compound	F73899-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
98-82-8	Isopropylbenzene	ND		1250	1390	111	1410	113	1	70-130/20
99-87-6	p-Isopropyltoluene	ND		1250	1350	108	1370	110	1	70-130/20
108-10-1	4-Methyl-2-pentanone	ND		6250	6940	111	6890	110	1	70-130/20
74-83-9	Methyl bromide	ND		1250	1790	143*	1930	154*	8	60-140/20
74-87-3	Methyl chloride	ND		1250	1550	124	1740	139	12	60-140/20
75-09-2	Methylene chloride	ND		1250	1670	134*	1650	132*	1	70-130/20
78-93-3	Methyl ethyl ketone	ND		6250	6870	110	6670	107	3	70-130/20
1634-04-4	Methyl Tert Butyl Ether	ND		1250	1500	120	1510	121	1	70-130/20
91-20-3	Naphthalene	496		1250	2090	128	1980	119	5	70-130/20
103-65-1	n-Propylbenzene	ND		1250	1520	122	1550	124	2	70-130/20
100-42-5	Styrene	ND		1250	1350	108	1360	109	1	70-130/20
71-55-6	1,1,1-Trichloroethane	ND		1250	1580	126	1600	128	1	70-130/20
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1400	112	1370	110	2	70-130/20
79-00-5	1,1,2-Trichloroethane	ND		1250	1410	113	1410	113	0	70-130/20
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1440	115	1400	112	3	70-130/20
96-18-4	1,2,3-Trichloropropane	ND		1250	1360	109	1380	110	1	70-130/20
120-82-1	1,2,4-Trichlorobenzene	ND		1250	1430	114	1400	112	2	70-130/20
95-63-6	1,2,4-Trimethylbenzene	1210		1250	2790	126	2690	118	4	70-130/20
108-67-8	1,3,5-Trimethylbenzene	315		1250	1770	116	1760	116	1	70-130/20
127-18-4	Tetrachloroethylene	ND		1250	1420	114	1460	117	3	70-130/20
108-88-3	Toluene	400		1250	1860	117	1850	116	1	70-130/20
79-01-6	Trichloroethylene	ND		1250	1540	123	1550	124	1	70-130/20
75-69-4	Trichlorofluoromethane	ND		1250	1490	119	1550	124	4	60-140/20
75-01-4	Vinyl chloride	ND		1250	1440	115	1600	128	11	60-140/20
108-05-4	Vinyl Acetate	ND		6250	9090	145*	8910	143*	2	70-130/20
	m,p-Xylene	1820		2500	5270	138*	5060	130	4	70-130/20
95-47-6	o-Xylene	2560		1250	4280	138* a	4050	119	6	70-130/20

CAS No.	Surrogate Recoveries	MS	MSD	F73899-5	Limits
1868-53-7	Dibromofluoromethane	102%	102%	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	103%	100%	102%	70-130%
2037-26-5	Toluene-D8	96%	98%	103%	70-130%
460-00-4	4-Bromofluorobenzene	93%	94%	97%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F73899-5MS	A013715.D	250	05/27/10	TD	n/a	n/a	VA504
F73899-5MSD	A013716.D	250	05/27/10	TD	n/a	n/a	VA504
F73899-5	A013705.D	250	05/27/10	TD	n/a	n/a	VA504

The QC reported here applies to the following samples: **Method:** SM 6200B

F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

(a) Outside control limits due to high level in sample relative to spike amount.

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33038-MB	U018735.D	1	05/29/10	NAF	05/27/10	OP33038	SU906

The QC reported here applies to the following samples: **Method:** EPA 625

F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	1.0	ug/l	
	3&4-Methylphenol	ND	5.0	1.6	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	1.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	1.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33038-MB	U018735.D	1	05/29/10	NAF	05/27/10	OP33038	SU906

The QC reported here applies to the following samples: **Method:** EPA 625

F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

CAS No.	Compound	Result	RL	MDL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	1.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	1.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.6	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	4.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	1.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	1.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	29%	14-62%
4165-62-2	Phenol-d5	18%	10-40%
118-79-6	2,4,6-Tribromophenol	69%	33-118%
4165-60-0	Nitrobenzene-d5	57%	42-108%
321-60-8	2-Fluorobiphenyl	58%	40-106%
1718-51-0	Terphenyl-d14	69%	39-121%

Blank Spike Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33038-BS	U018734.D	1	05/29/10	NAF	05/27/10	OP33038	SU906

The QC reported here applies to the following samples: **Method:** EPA 625

F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	16.4	16	10-50
95-57-8	2-Chlorophenol	50	34.2	68	44-103
59-50-7	4-Chloro-3-methyl phenol	50	40.7	81	53-105
120-83-2	2,4-Dichlorophenol	50	40.9	82	53-108
105-67-9	2,4-Dimethylphenol	50	28.2	56	37-91
51-28-5	2,4-Dinitrophenol	100	76.9	77	37-111
534-52-1	4,6-Dinitro-o-cresol	100	88.1	88	62-115
95-48-7	2-Methylphenol	50	30.4	61	35-91
	3&4-Methylphenol	100	52.9	53	32-85
88-75-5	2-Nitrophenol	50	38.9	78	49-111
100-02-7	4-Nitrophenol	100	33.4	33	13-55
87-86-5	Pentachlorophenol	100	85.2	85	57-118
108-95-2	Phenol	50	13.6	27	13-54
88-06-2	2,4,6-Trichlorophenol	50	42.1	84	58-107
83-32-9	Acenaphthene	50	43.6	87	58-106
208-96-8	Acenaphthylene	50	40.9	82	58-105
120-12-7	Anthracene	50	42.1	84	65-108
56-55-3	Benzo(a)anthracene	50	46.2	92	63-111
50-32-8	Benzo(a)pyrene	50	44.8	90	62-106
205-99-2	Benzo(b)fluoranthene	50	45.0	90	63-109
191-24-2	Benzo(g,h,i)perylene	50	46.0	92	61-111
207-08-9	Benzo(k)fluoranthene	50	49.9	100	64-111
101-55-3	4-Bromophenyl phenyl ether	50	45.4	91	64-107
85-68-7	Butyl benzyl phthalate	50	46.7	93	59-114
100-51-6	Benzyl Alcohol	50	33.2	66	34-98
91-58-7	2-Chloronaphthalene	50	37.1	74	54-105
106-47-8	4-Chloroaniline	50	32.4	65	53-103
218-01-9	Chrysene	50	46.8	94	64-111
111-91-1	bis(2-Chloroethoxy)methane	50	39.7	79	48-101
111-44-4	bis(2-Chloroethyl)ether	50	36.9	74	51-108
108-60-1	bis(2-Chloroisopropyl)ether	50	39.3	79	43-106
7005-72-3	4-Chlorophenyl phenyl ether	50	44.8	90	61-107
95-50-1	1,2-Dichlorobenzene	50	35.6	71	41-102
122-66-7	1,2-Diphenylhydrazine	50	42.9	86	61-110
541-73-1	1,3-Dichlorobenzene	50	33.6	67	38-100
106-46-7	1,4-Dichlorobenzene	50	34.0	68	40-100

Blank Spike Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33038-BS	U018734.D	1	05/29/10	NAF	05/27/10	OP33038	SU906

The QC reported here applies to the following samples: **Method:** EPA 625

F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	50	44.7	89	60-109
606-20-2	2,6-Dinitrotoluene	50	42.9	86	58-104
91-94-1	3,3'-Dichlorobenzidine	50	42.9	86	57-105
53-70-3	Dibenzo(a,h)anthracene	50	45.6	91	62-112
132-64-9	Dibenzofuran	50	41.4	83	61-108
84-74-2	Di-n-butyl phthalate	50	44.7	89	62-109
117-84-0	Di-n-octyl phthalate	50	48.0	96	60-120
84-66-2	Diethyl phthalate	50	46.4	93	62-109
131-11-3	Dimethyl phthalate	50	45.0	90	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	46.6	93	59-116
206-44-0	Fluoranthene	50	43.8	88	65-114
86-73-7	Fluorene	50	46.2	92	61-106
118-74-1	Hexachlorobenzene	50	44.8	90	62-107
87-68-3	Hexachlorobutadiene	50	34.4	69	38-107
77-47-4	Hexachlorocyclopentadiene	50	30.8	62	19-84
67-72-1	Hexachloroethane	50	33.4	67	35-101
193-39-5	Indeno(1,2,3-cd)pyrene	50	44.2	88	61-113
78-59-1	Isophorone	50	31.3	63	56-111
91-57-6	2-Methylnaphthalene	50	40.7	81	56-112
91-20-3	Naphthalene	50	36.2	72	50-104
98-95-3	Nitrobenzene	50	36.3	73	52-105
621-64-7	N-Nitroso-di-n-propylamine	50	38.1	76	51-104
86-30-6	N-Nitrosodiphenylamine	50	45.3	91	57-110
85-01-8	Phenanthrene	50	46.6	93	65-108
129-00-0	Pyrene	50	48.7	97	60-113
120-82-1	1,2,4-Trichlorobenzene	50	34.6	69	45-104

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	40%	14-62%
4165-62-2	Phenol-d5	26%	10-40%
118-79-6	2,4,6-Tribromophenol	92%	33-118%
4165-60-0	Nitrobenzene-d5	70%	42-108%
321-60-8	2-Fluorobiphenyl	73%	40-106%
1718-51-0	Terphenyl-d14	92%	39-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33038-MS	U018737.D	1	05/29/10	NAF	05/27/10	OP33038	SU906
OP33038-MSD	U018738.D	1	05/29/10	NAF	05/27/10	OP33038	SU906
F73898-1	U018736.D	1	05/29/10	NAF	05/27/10	OP33038	SU906

The QC reported here applies to the following samples: **Method:** EPA 625

F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

CAS No.	Compound	F73898-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		192	41.4	22	57.9	30	33	10-50/40
95-57-8	2-Chlorophenol	ND		96.2	76.3	79	77.3	80	1	44-103/29
59-50-7	4-Chloro-3-methyl phenol	ND		96.2	85.2	89	84.3	88	1	53-105/24
120-83-2	2,4-Dichlorophenol	ND		96.2	86.0	89	85.5	89	1	53-108/26
105-67-9	2,4-Dimethylphenol	ND		96.2	62.6	65	58.6	61	7	37-91/28
51-28-5	2,4-Dinitrophenol	ND		192	155	81	166	86	7	37-111/30
534-52-1	4,6-Dinitro-o-cresol	ND		192	179	93	181	94	1	62-115/26
95-48-7	2-Methylphenol	ND		96.2	72.2	75	70.3	73	3	35-91/30
	3&4-Methylphenol	ND		192	128	67	126	66	2	32-85/29
88-75-5	2-Nitrophenol	ND		96.2	84.5	88	80.7	84	5	49-111/30
100-02-7	4-Nitrophenol	ND		192	92.1	48	99.0	51	7	13-55/31
87-86-5	Pentachlorophenol	ND		192	168	87	172	89	2	57-118/26
108-95-2	Phenol	ND		96.2	39.9	41	40.0	42	0	13-54/34
88-06-2	2,4,6-Trichlorophenol	ND		96.2	86.2	90	85.6	89	1	58-107/24
83-32-9	Acenaphthene	ND		96.2	89.5	93	88.5	92	1	58-106/21
208-96-8	Acenaphthylene	ND		96.2	84.0	87	83.1	86	1	58-105/21
120-12-7	Anthracene	ND		96.2	83.3	87	83.8	87	1	65-108/19
56-55-3	Benzo(a)anthracene	ND		96.2	89.5	93	89.9	93	0	63-111/19
50-32-8	Benzo(a)pyrene	ND		96.2	88.5	92	87.4	91	1	62-106/20
205-99-2	Benzo(b)fluoranthene	ND		96.2	87.1	91	89.0	93	2	63-109/20
191-24-2	Benzo(g,h,i)perylene	ND		96.2	89.0	93	89.4	93	0	61-111/21
207-08-9	Benzo(k)fluoranthene	ND		96.2	101	105	99.0	103	2	64-111/20
101-55-3	4-Bromophenyl phenyl ether	ND		96.2	88.8	92	89.1	93	0	64-107/20
85-68-7	Butyl benzyl phthalate	ND		96.2	84.6	88	88.5	92	5	59-114/20
100-51-6	Benzyl Alcohol	ND		96.2	77.9	81	75.4	78	3	34-98/27
91-58-7	2-Chloronaphthalene	ND		96.2	78.2	81	76.9	80	2	54-105/24
106-47-8	4-Chloroaniline	ND		96.2	66.1	69	61.4	64	7	53-103/22
218-01-9	Chrysene	ND		96.2	90.6	94	93.1	97	3	64-111/19
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	85.3	89	82.5	86	3	48-101/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	81.1	84	79.9	83	1	51-108/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	84.5	88	83.3	87	1	43-106/27
7005-72-3	4-Chlorophenyl phenyl ether	ND		96.2	87.8	91	89.3	93	2	61-107/20
95-50-1	1,2-Dichlorobenzene	ND		96.2	79.5	83	78.5	82	1	41-102/28
122-66-7	1,2-Diphenylhydrazine	ND		96.2	84.9	88	83.6	87	2	61-110/20
541-73-1	1,3-Dichlorobenzene	ND		96.2	74.8	78	74.3	77	1	38-100/28
106-46-7	1,4-Dichlorobenzene	ND		96.2	76.7	80	75.0	78	2	40-100/28

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F73898
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33038-MS	U018737.D	1	05/29/10	NAF	05/27/10	OP33038	SU906
OP33038-MSD	U018738.D	1	05/29/10	NAF	05/27/10	OP33038	SU906
F73898-1	U018736.D	1	05/29/10	NAF	05/27/10	OP33038	SU906

The QC reported here applies to the following samples: **Method:** EPA 625

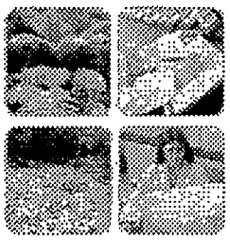
F73898-1, F73898-2, F73898-3, F73898-4, F73898-5

CAS No.	Compound	F73898-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
121-14-2	2,4-Dinitrotoluene	ND		96.2	84.9	88	88.1	92	4	60-109/20
606-20-2	2,6-Dinitrotoluene	ND		96.2	84.7	88	85.2	89	1	58-104/21
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	81.8	85	81.5	85	0	57-105/25
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	88.0	92	86.5	90	2	62-112/20
132-64-9	Dibenzofuran	ND		96.2	82.7	86	82.7	86	0	61-108/20
84-74-2	Di-n-butyl phthalate	ND		96.2	86.7	90	88.2	92	2	62-109/20
117-84-0	Di-n-octyl phthalate	ND		96.2	90.6	94	92.7	96	2	60-120/24
84-66-2	Diethyl phthalate	ND		96.2	87.5	91	90.4	94	3	62-109/19
131-11-3	Dimethyl phthalate	ND		96.2	86.7	90	88.2	92	2	63-106/19
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	84.2	88	88.7	92	5	59-116/21
206-44-0	Fluoranthene	ND		96.2	91.3	95	89.9	93	2	65-114/21
86-73-7	Fluorene	ND		96.2	90.0	94	90.9	95	1	61-106/19
118-74-1	Hexachlorobenzene	ND		96.2	86.9	90	87.2	91	0	62-107/20
87-68-3	Hexachlorobutadiene	ND		96.2	77.9	81	77.8	81	0	38-107/30
77-47-4	Hexachlorocyclopentadiene	ND		96.2	68.6	71	62.9	65	9	19-84/35
67-72-1	Hexachloroethane	ND		96.2	74.0	77	72.8	76	2	35-101/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	85.1	89	85.4	89	0	61-113/20
78-59-1	Isophorone	ND		96.2	65.6	68	65.0	68	1	56-111/26
91-57-6	2-Methylnaphthalene	ND		96.2	86.4	90	84.1	87	3	56-112/26
91-20-3	Naphthalene	ND		96.2	79.7	83	77.3	80	3	50-104/28
98-95-3	Nitrobenzene	ND		96.2	78.2	81	76.5	80	2	52-105/28
621-64-7	N-Nitroso-di-n-propylamine	ND		96.2	79.0	82	78.2	81	1	51-104/28
86-30-6	N-Nitrosodiphenylamine	ND		96.2	88.2	92	88.0	92	0	57-110/19
85-01-8	Phenanthrene	ND		96.2	91.8	95	92.7	96	1	65-108/20
129-00-0	Pyrene	ND		96.2	89.3	93	93.3	97	4	60-113/20
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	76.4	79	75.6	79	1	45-104/28

CAS No.	Surrogate Recoveries	MS	MSD	F73898-1	Limits
367-12-4	2-Fluorophenol	57%	58%	30%	14-62%
4165-62-2	Phenol-d5	41%*	41%*	18%	10-40%
118-79-6	2,4,6-Tribromophenol	92%	93%	72%	33-118%
4165-60-0	Nitrobenzene-d5	81%	78%	62%	42-108%
321-60-8	2-Fluorobiphenyl	83%	80%	62%	40-106%
1718-51-0	Terphenyl-d14	87%	91%	75%	39-121%

Southeast ACCUTEST Laboratories

06/16/10



Technical Report for

Highlands Environmental Solutions, Inc

Hanson; Durham, NC

57001

Accutest Job Number: F74155

Sampling Date: 06/03/10

Report to:

Highlands Environmental Solutions, Inc
8410-D Falls of Neuse Rd
Raleigh, NC 27615
jbeaman@hesnc.com

ATTN: Joe Beaman

Total number of pages in report: **23**

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Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

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Sample Summary

Highlands Environmental Solutions, Inc

Job No: F74155

Hanson; Durham, NC
Project No: 57001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F74155-1	06/03/10	08:50	TS	06/04/10	AQ	Ground Water	WSW-D

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-D		
Lab Sample ID:	F74155-1	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SM 6200B	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A014182.D	1	06/12/10	TD	n/a	n/a	VA521
Run #2							

	Purge Volume
Run #1	25.0 ml
Run #2	

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	9.3	10	2.0	ug/l	J
71-43-2	Benzene	ND	0.50	0.11	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.12	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.12	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.11	ug/l	
75-25-2	Bromoform	ND	0.50	0.25	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.10	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.10	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.11	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.11	ug/l	
75-00-3	Chloroethane	ND	0.50	0.14	ug/l	
67-66-3	Chloroform	ND	0.50	0.18	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.11	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.11	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.10	ug/l	
108-20-3	Di-Isopropyl ether	ND	0.50	0.12	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.14	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.11	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.11	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.11	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.12	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WSW-D		
Lab Sample ID:	F74155-1	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SM 6200B	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.10	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.11	ug/l	
64-17-5	Ethyl Alcohol	ND	100	20	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.10	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.5	1.0	ug/l	
74-83-9	Methyl bromide	ND	0.50	0.15	ug/l	
74-87-3	Methyl chloride	0.28	0.50	0.15	ug/l	J
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	2.5	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.15	0.50	0.12	ug/l	J
91-20-3	Naphthalene	ND	0.50	0.11	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.11	ug/l	
100-42-5	Styrene	ND	0.50	0.10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.11	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.11	ug/l	
108-88-3	Toluene	1.0	0.50	0.11	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.12	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.13	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.13	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.0	ug/l	J
	m,p-Xylene	0.38	1.0	0.21	ug/l	J
95-47-6	o-Xylene	ND	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		70-130%
17060-07-0	1,2-Dichloroethane-D4	115%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	109%		70-130%

(a) CCV outside of control limits; results may be biased low.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-D		
Lab Sample ID:	F74155-1	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L047438.D	1	06/10/10	RB	06/09/10	OP33192	SL2429
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	26	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.1	1.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.1	1.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	26	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.0	ug/l	
95-48-7	2-Methylphenol	ND	5.1	1.0	ug/l	
	3&4-Methylphenol	ND	5.1	1.6	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	26	10	ug/l	
87-86-5	Pentachlorophenol	ND	26	10	ug/l	
108-95-2	Phenol	ND	5.1	1.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	1.0	ug/l	
83-32-9	Acenaphthene	ND	5.1	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.1	1.0	ug/l	
120-12-7	Anthracene	ND	5.1	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.1	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.1	1.0	ug/l	
218-01-9	Chrysene	ND	5.1	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	1.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WSW-D		
Lab Sample ID:	F74155-1	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Hanson; Durham, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.1	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.1	1.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.1	1.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	1.0	ug/l	
132-64-9	Dibenzofuran	ND	5.1	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	1.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	1.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.1	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.1	1.0	ug/l	
86-73-7	Fluorene	ND	5.1	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	2.7	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.1	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	1.0	ug/l	
78-59-1	Isophorone	ND	5.1	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	1.0	ug/l	
91-20-3	Naphthalene	ND	5.1	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.1	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	1.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.1	1.0	ug/l	
129-00-0	Pyrene	ND	5.1	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST

4405 Vineland Rd., Suite C15
Orlando, FL 32811
Phone: 407-425-6700 Fax: 407-425-0707

Page 1 of 1

Accutest Job #:

Accutest Control #: F74155

Client Information

Name: HES-Highlands
Address: 5410-D Falls of Neuse
City: Raleigh State: NC Zip: 27615
Send Report to: JBeaver@hesnc.com
Email:

Facility Information

Project Name: Hanson
Location: Durham, NC
Project No.: 57001
Phone #: 919-848-3155
FAX #: 919-848-4265

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation NONE	HCL	HNO3	H2SO4	NaOH	DI H2O	NaHSO4	MeOH	625	6010-D							
1 WSW-D	6/3/10	8:50	TD	W	5	X	X							X	X							

Turnaround Time (Business Days)

- [X] 5-7 Day STD
- [ ] 3 Day *RUSH*
- [ ] Other _____ (Days)

Approved By: TD

RUSH TAT is by Email only
Data unless previously approved.

Data Deliverable Information

- [ ] Level I (Results only)
- [X] Level II (Results + QC)
- [ ] Level III (Full Data Package less Raw Data)
- [ ] Level IV (Full Data Package plus Raw Data)
- [ ] EDD

Comments / Remarks

Sample Custody must be documented below each time samples change possession (including courier delivery).

Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:
1 [signature]	6/3/10 0935	1 [signature]		2 [signature]	6/4/10 0900	2 [signature] Accutest	
3		3		4		4	
5		5					

Lab use only: Custody Seal Intact: YES [ ] NO [ ] Cooler Temperature(s) °C 2-8

F74155: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F74155 CLIENT: HES PROJECT: Hanson

DATE/TIME RECEIVED: 060410 0900 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7987 2568 3450

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

NUMBER OR LAB FILTERED METALS ? 0

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR: +1.4
- [ ] OBSERVED TEMPS: 1.4
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [x] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: only (Amber (vp) received

TECHNICIAN SIGNATURE/DATE FTV 060410 REVIEWER SIGNATURE/DATE JC 6-4-10

NF 10/09 RECEIPT CONFIRMATION 100609 (2).xls

F74155: Chain of Custody
Page 2 of 2

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F74155
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA521-MB	A014165.D	1	06/11/10	TD	n/a	n/a	VA521

The QC reported here applies to the following samples: **Method:** SM 6200B

F74155-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.11	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.12	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.12	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.11	ug/l	
75-25-2	Bromoform	ND	0.50	0.25	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.10	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.10	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.11	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.11	ug/l	
75-00-3	Chloroethane	ND	0.50	0.14	ug/l	
67-66-3	Chloroform	ND	0.50	0.18	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.11	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.11	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.10	ug/l	
108-20-3	Di-Isopropyl ether	ND	0.50	0.12	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.14	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.11	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.11	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.11	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.12	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.10	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.11	ug/l	
64-17-5	Ethyl Alcohol	ND	100	20	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F74155
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA521-MB	A014165.D	1	06/11/10	TD	n/a	n/a	VA521

The QC reported here applies to the following samples: **Method:** SM 6200B

F74155-1

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	0.50	0.10	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.5	1.0	ug/l	
74-83-9	Methyl bromide	ND	0.50	0.15	ug/l	
74-87-3	Methyl chloride	ND	0.50	0.15	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	2.5	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.12	ug/l	
91-20-3	Naphthalene	ND	0.50	0.11	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.11	ug/l	
100-42-5	Styrene	ND	0.50	0.10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.11	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.11	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.12	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.13	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.13	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	0.21	ug/l	
95-47-6	o-Xylene	ND	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	106%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	106%	70-130%

Blank Spike Summary

Job Number: F74155
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA521-BS	A014164.D	1	06/11/10	TD	n/a	n/a	VA521

The QC reported here applies to the following samples: **Method:** SM 6200B

F74155-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	25	28.5	114	70-130
71-43-2	Benzene	5	5.6	112	70-130
108-86-1	Bromobenzene	5	5.4	108	70-130
74-97-5	Bromochloromethane	5	5.4	108	70-130
75-27-4	Bromodichloromethane	5	5.8	116	70-130
75-25-2	Bromoform	5	5.5	110	70-130
104-51-8	n-Butylbenzene	5	5.9	118	70-130
135-98-8	sec-Butylbenzene	5	5.8	116	70-130
98-06-6	tert-Butylbenzene	5	5.9	118	70-130
108-90-7	Chlorobenzene	5	5.6	112	70-130
75-00-3	Chloroethane	5	6.0	120	60-140
67-66-3	Chloroform	5	5.6	112	70-130
95-49-8	o-Chlorotoluene	5	5.6	112	70-130
106-43-4	p-Chlorotoluene	5	5.6	112	70-130
56-23-5	Carbon tetrachloride	5	6.3	126	70-130
75-34-3	1,1-Dichloroethane	5	5.8	116	70-130
75-35-4	1,1-Dichloroethylene	5	6.4	128	70-130
563-58-6	1,1-Dichloropropene	5	6.0	120	70-130
106-93-4	1,2-Dibromoethane	5	5.5	110	70-130
107-06-2	1,2-Dichloroethane	5	6.0	120	70-130
78-87-5	1,2-Dichloropropane	5	5.6	112	70-130
142-28-9	1,3-Dichloropropane	5	5.5	110	70-130
108-20-3	Di-Isopropyl ether	5	5.6	112	70-130
594-20-7	2,2-Dichloropropane	5	5.7	114	70-130
124-48-1	Dibromochloromethane	5	5.8	116	70-130
75-71-8	Dichlorodifluoromethane	5	6.8	136	60-140
156-59-2	cis-1,2-Dichloroethylene	5	5.6	112	70-130
10061-01-5	cis-1,3-Dichloropropene	5	5.6	112	70-130
541-73-1	m-Dichlorobenzene	5	5.5	110	70-130
95-50-1	o-Dichlorobenzene	5	5.5	110	70-130
106-46-7	p-Dichlorobenzene	5	5.5	110	70-130
156-60-5	trans-1,2-Dichloroethylene	5	5.9	118	70-130
10061-02-6	trans-1,3-Dichloropropene	5	5.6	112	70-130
100-41-4	Ethylbenzene	5	5.6	112	70-130
64-17-5	Ethyl Alcohol	500	609	122	70-130
591-78-6	2-Hexanone	25	28.6	114	70-130

Blank Spike Summary

Job Number: F74155
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA521-BS	A014164.D	1	06/11/10	TD	n/a	n/a	VA521

The QC reported here applies to the following samples: **Method:** SM 6200B

F74155-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
98-82-8	Isopropylbenzene	5	5.9	118	70-130
99-87-6	p-Isopropyltoluene	5	5.8	116	70-130
108-10-1	4-Methyl-2-pentanone	25	27.9	112	70-130
74-83-9	Methyl bromide	5	6.2	124	60-140
74-87-3	Methyl chloride	5	6.9	138	60-140
75-09-2	Methylene chloride	5	6.5	130	70-130
78-93-3	Methyl ethyl ketone	25	27.2	109	70-130
1634-04-4	Methyl Tert Butyl Ether	5	5.6	112	70-130
91-20-3	Naphthalene	5	5.7	114	70-130
103-65-1	n-Propylbenzene	5	5.6	112	70-130
100-42-5	Styrene	5	5.6	112	70-130
71-55-6	1,1,1-Trichloroethane	5	6.1	122	70-130
79-34-5	1,1,2,2-Tetrachloroethane	5	5.2	104	70-130
79-00-5	1,1,2-Trichloroethane	5	5.3	106	70-130
87-61-6	1,2,3-Trichlorobenzene	5	5.6	112	70-130
96-18-4	1,2,3-Trichloropropane	5	5.5	110	70-130
120-82-1	1,2,4-Trichlorobenzene	5	5.6	112	70-130
95-63-6	1,2,4-Trimethylbenzene	5	5.7	114	70-130
108-67-8	1,3,5-Trimethylbenzene	5	5.7	114	70-130
127-18-4	Tetrachloroethylene	5	5.8	116	70-130
108-88-3	Toluene	5	5.6	112	70-130
79-01-6	Trichloroethylene	5	5.9	118	70-130
75-69-4	Trichlorofluoromethane	5	6.4	128	60-140
75-01-4	Vinyl chloride	5	6.6	132	60-140
108-05-4	Vinyl Acetate	25	23.3	93	70-130
	m,p-Xylene	10	11.6	116	70-130
95-47-6	o-Xylene	5	5.7	114	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	70-130%
17060-07-0	1,2-Dichloroethane-D4	107%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F74155
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F74155-1MS	A014183.D	1	06/12/10	TD	n/a	n/a	VA521
F74155-1MSD	A014184.D	1	06/12/10	TD	n/a	n/a	VA521
F74155-1	A014182.D	1	06/12/10	TD	n/a	n/a	VA521

The QC reported here applies to the following samples: **Method:** SM 6200B

F74155-1

CAS No.	Compound	F74155-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	9.3	J	25	34.2	100	39.5	121	14	70-130/20
71-43-2	Benzene	ND		5	4.1	82	4.7	94	14	70-130/20
108-86-1	Bromobenzene	ND		5	4.0	80	4.6	92	14	70-130/20
74-97-5	Bromochloromethane	ND		5	4.1	82	4.6	92	11	70-130/20
75-27-4	Bromodichloromethane	ND		5	4.4	88	4.9	98	11	70-130/20
75-25-2	Bromoform	ND		5	3.5	70	4.0	80	13	70-130/20
104-51-8	n-Butylbenzene	ND		5	4.1	82	4.8	96	16	70-130/20
135-98-8	sec-Butylbenzene	ND		5	4.3	86	4.9	98	13	70-130/20
98-06-6	tert-Butylbenzene	ND		5	4.5	90	5.2	104	14	70-130/20
108-90-7	Chlorobenzene	ND		5	4.1	82	4.8	96	16	70-130/20
75-00-3	Chloroethane	ND		5	5.1	102	5.0	100	2	60-140/20
67-66-3	Chloroform	ND		5	4.4	88	5.0	100	13	70-130/20
95-49-8	o-Chlorotoluene	ND		5	4.2	84	4.9	98	15	70-130/20
106-43-4	p-Chlorotoluene	ND		5	4.3	86	4.9	98	13	70-130/20
56-23-5	Carbon tetrachloride	ND		5	4.9	98	5.4	108	10	70-130/20
75-34-3	1,1-Dichloroethane	ND		5	4.4	88	5.0	100	13	70-130/20
75-35-4	1,1-Dichloroethylene	ND		5	4.7	94	5.3	106	12	70-130/20
563-58-6	1,1-Dichloropropene	ND		5	4.5	90	5.1	102	13	70-130/20
106-93-4	1,2-Dibromoethane	ND		5	4.1	82	4.8	96	16	70-130/20
107-06-2	1,2-Dichloroethane	ND		5	4.8	96	5.4	108	12	70-130/20
78-87-5	1,2-Dichloropropane	ND		5	4.3	86	4.8	96	11	70-130/20
142-28-9	1,3-Dichloropropane	ND		5	4.1	82	4.7	94	14	70-130/20
108-20-3	Di-Isopropyl ether	ND		5	4.5	90	5.1	102	13	70-130/20
594-20-7	2,2-Dichloropropane	ND		5	3.9	78	4.4	88	12	70-130/20
124-48-1	Dibromochloromethane	ND		5	4.0	80	4.6	92	14	70-130/20
75-71-8	Dichlorodifluoromethane	ND		5	7.3	146*	7.2	144*	1	60-140/20
156-59-2	cis-1,2-Dichloroethylene	ND		5	4.3	86	4.8	96	11	70-130/20
10061-01-5	cis-1,3-Dichloropropene	ND		5	3.9	78	4.4	88	12	70-130/20
541-73-1	m-Dichlorobenzene	ND		5	4.1	82	4.8	96	16	70-130/20
95-50-1	o-Dichlorobenzene	ND		5	4.2	84	4.8	96	13	70-130/20
106-46-7	p-Dichlorobenzene	ND		5	4.1	82	4.8	96	16	70-130/20
156-60-5	trans-1,2-Dichloroethylene	ND		5	4.4	88	4.9	98	11	70-130/20
10061-02-6	trans-1,3-Dichloropropene	ND		5	4.3	86	4.8	96	11	70-130/20
100-41-4	Ethylbenzene	ND		5	4.3	86	4.9	98	13	70-130/20
64-17-5	Ethyl Alcohol	ND		500	463	93	528	106	13	70-130/20
591-78-6	2-Hexanone	ND		25	21.7	87	24.6	98	13	70-130/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F74155
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F74155-1MS	A014183.D	1	06/12/10	TD	n/a	n/a	VA521
F74155-1MSD	A014184.D	1	06/12/10	TD	n/a	n/a	VA521
F74155-1	A014182.D	1	06/12/10	TD	n/a	n/a	VA521

4.3.1

The QC reported here applies to the following samples: **Method:** SM 6200B

F74155-1

CAS No.	Compound	F74155-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
98-82-8	Isopropylbenzene	ND		5	4.9	98	5.7	114	15	70-130/20
99-87-6	p-Isopropyltoluene	ND		5	4.2	84	4.9	98	15	70-130/20
108-10-1	4-Methyl-2-pentanone	ND		25	22.1	88	24.5	98	10	70-130/20
74-83-9	Methyl bromide	ND		5	5.2	104	4.9	98	6	60-140/20
74-87-3	Methyl chloride	0.28	J	5	5.4	102	5.7	108	5	60-140/20
75-09-2	Methylene chloride	ND		5	5.2	104	5.7	114	9	70-130/20
78-93-3	Methyl ethyl ketone	ND		25	22.2	89	24.7	99	11	70-130/20
1634-04-4	Methyl Tert Butyl Ether	0.15	J	5	4.7	91	5.1	99	8	70-130/20
91-20-3	Naphthalene	ND		5	4.1	82	4.8	96	16	70-130/20
103-65-1	n-Propylbenzene	ND		5	4.1	82	4.8	96	16	70-130/20
100-42-5	Styrene	ND		5	3.8	76	4.2	84	10	70-130/20
71-55-6	1,1,1-Trichloroethane	ND		5	4.8	96	5.3	106	10	70-130/20
79-34-5	1,1,2,2-Tetrachloroethane	ND		5	4.4	88	4.9	98	11	70-130/20
79-00-5	1,1,2-Trichloroethane	ND		5	4.1	82	4.6	92	11	70-130/20
87-61-6	1,2,3-Trichlorobenzene	ND		5	4.2	84	4.9	98	15	70-130/20
96-18-4	1,2,3-Trichloropropane	ND		5	3.9	78	4.4	88	12	70-130/20
120-82-1	1,2,4-Trichlorobenzene	ND		5	4.1	82	4.9	98	18	70-130/20
95-63-6	1,2,4-Trimethylbenzene	ND		5	4.2	84	4.8	96	13	70-130/20
108-67-8	1,3,5-Trimethylbenzene	ND		5	4.2	84	4.9	98	15	70-130/20
127-18-4	Tetrachloroethylene	ND		5	4.2	84	4.8	96	13	70-130/20
108-88-3	Toluene	1.0		5	5.1	82	5.7	94	11	70-130/20
79-01-6	Trichloroethylene	ND		5	4.4	88	4.9	98	11	70-130/20
75-69-4	Trichlorofluoromethane	ND		5	6.6	132	6.2	124	6	60-140/20
75-01-4	Vinyl chloride	ND		5	5.1	102	5.4	108	6	60-140/20
108-05-4	Vinyl Acetate	ND	J	25	19.9	80	20.0	80	1	70-130/20
	m,p-Xylene	0.38	J	10	8.9	85	10.3	99	15	70-130/20
95-47-6	o-Xylene	ND		5	4.3	86	5.0	100	15	70-130/20

CAS No.	Surrogate Recoveries	MS	MSD	F74155-1	Limits
1868-53-7	Dibromofluoromethane	111%	110%	109%	70-130%
17060-07-0	1,2-Dichloroethane-D4	119%	115%	115%	70-130%
2037-26-5	Toluene-D8	99%	100%	100%	70-130%
460-00-4	4-Bromofluorobenzene	101%	102%	109%	70-130%

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F74155
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33192-MB	L047437.D	1	06/10/10	RB	06/09/10	OP33192	SL2429

The QC reported here applies to the following samples: **Method:** EPA 625

F74155-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	1.0	ug/l	
	3&4-Methylphenol	ND	5.0	1.6	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	1.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	1.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F74155
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33192-MB	L047437.D	1	06/10/10	RB	06/09/10	OP33192	SL2429

The QC reported here applies to the following samples: **Method:** EPA 625

F74155-1

CAS No.	Compound	Result	RL	MDL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	1.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	1.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.6	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	4.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	1.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	1.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	49%	14-62%
4165-62-2	Phenol-d5	33%	10-40%
118-79-6	2,4,6-Tribromophenol	88%	33-118%
4165-60-0	Nitrobenzene-d5	75%	42-108%
321-60-8	2-Fluorobiphenyl	76%	40-106%
1718-51-0	Terphenyl-d14	83%	39-121%

Blank Spike Summary

Job Number: F74155
Account: HESNCR Highlands Environmental Solutions, Inc
Project: Hanson; Durham, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33192-BS	L047436.D	1	06/10/10	RB	06/09/10	OP33192	SL2429

The QC reported here applies to the following samples: **Method:** EPA 625

F74155-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	19.0	19	10-50
95-57-8	2-Chlorophenol	50	35.9	72	44-103
59-50-7	4-Chloro-3-methyl phenol	50	39.2	78	53-105
120-83-2	2,4-Dichlorophenol	50	42.0	84	53-108
105-67-9	2,4-Dimethylphenol	50	31.3	63	37-91
51-28-5	2,4-Dinitrophenol	100	82.6	83	37-111
534-52-1	4,6-Dinitro-o-cresol	100	90.3	90	62-115
95-48-7	2-Methylphenol	50	31.8	64	35-91
	3&4-Methylphenol	100	54.5	55	32-85
88-75-5	2-Nitrophenol	50	40.6	81	49-111
100-02-7	4-Nitrophenol	100	27.8	28	13-55
87-86-5	Pentachlorophenol	100	83.0	83	57-118
108-95-2	Phenol	50	16.7	33	13-54
88-06-2	2,4,6-Trichlorophenol	50	40.7	81	58-107
83-32-9	Acenaphthene	50	41.6	83	58-106
208-96-8	Acenaphthylene	50	39.5	79	58-105
120-12-7	Anthracene	50	39.5	79	65-108
56-55-3	Benzo(a)anthracene	50	44.0	88	63-111
50-32-8	Benzo(a)pyrene	50	42.3	85	62-106
205-99-2	Benzo(b)fluoranthene	50	44.3	89	63-109
191-24-2	Benzo(g,h,i)perylene	50	46.6	93	61-111
207-08-9	Benzo(k)fluoranthene	50	44.6	89	64-111
101-55-3	4-Bromophenyl phenyl ether	50	43.3	87	64-107
85-68-7	Butyl benzyl phthalate	50	43.7	87	59-114
100-51-6	Benzyl Alcohol	50	34.8	70	34-98
91-58-7	2-Chloronaphthalene	50	36.7	73	54-105
106-47-8	4-Chloroaniline	50	33.1	66	53-103
218-01-9	Chrysene	50	44.4	89	64-111
111-91-1	bis(2-Chloroethoxy)methane	50	38.7	77	48-101
111-44-4	bis(2-Chloroethyl)ether	50	37.6	75	51-108
108-60-1	bis(2-Chloroisopropyl)ether	50	33.9	68	43-106
7005-72-3	4-Chlorophenyl phenyl ether	50	41.5	83	61-107
95-50-1	1,2-Dichlorobenzene	50	33.9	68	41-102
122-66-7	1,2-Diphenylhydrazine	50	40.3	81	61-110
541-73-1	1,3-Dichlorobenzene	50	32.3	65	38-100
106-46-7	1,4-Dichlorobenzene	50	32.2	64	40-100