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

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

June 25, 2013

Brett & Christen Austin
512 Chrismill Ln
Holly Springs, NC 27540

RE: Water Supply Well Sampling Results – Randalls Ferry Rd Site (NONCD0002812)
17586 Randalls Ferry Rd – Well ID RF-1
Norwood, NC 28128

Dear Mr. or Ms. Austin:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on May 1, 2013. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). VOCs were detected in the water sample as shown on the attached sheets.

Because VOCs were detected in the water sample, a Health Risk Evaluation (HRE) of the water supply was performed by our toxicologist. The HRE, which is enclosed, compares the concentration of detected contaminants to acceptable concentrations and provides a recommendation for acceptable uses of the water.

In accordance with the residential property disclosure act, it is your responsibility to disclose this contamination as part of the property sale. You should also notify all current and future tenants of your property of the contamination detected in your well.

If you have any questions regarding the Health Risk Evaluation, please contact Hanna Assefa at (919) 707-8351 or me at (919) 707-8353.

Sincerely,

Vincent Antrilli, Jr.

Vincent Antrilli, Jr.
Environmental Specialist
Inactive Hazardous Sites Branch
Superfund Section

Enclosure

CC: Stanly County Health Department
Resident @ 17586 Randalls Ferry Ln, Norwood, NC 28128

June 25, 2013

MEMORANDUM

TO: Vince Antrilli
Inactive Hazardous Sites Branch
Superfund Section

FROM: Hanna Assefa, Industrial Hygiene Consultant
Inactive Hazardous Sites Branch
Superfund Section

RE: Health Risk Evaluation
Randalls Ferry Site
17586 Randalls Ferry Rd. (RF-1)
Norwood, Stanley County
NONCD 000 2812

A water sample was collected from the subject well on May 01, 2013. Chloroform was detected in the water sample at a concentration below its applicable standard. The standards used to determine if the water is suitable for drinking and cooking are the federal drinking water standards (USEPA MCL), or where there is no MCL, the North Carolina Groundwater Quality Standard (NC 2L). If there is no USEPA MCL or health- based North Carolina 2L available a health –based concentration is calculated.

If contaminant concentrations exceed the applicable standards for using the water for drinking and cooking, the contaminant concentrations are further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. **Therefore, based on this evaluation, the water from this can be used for drinking, cooking and all other purposes listed above.** The table below compares the detected contaminant concentrations with the applicable standards:

Sample #	Contaminant	Concent ration (ug/L)	US EPA MCL (ug/L)	NC 2L (ug/L)	Calculated Health-based Concentration(ug/L)
OE 02013-007	Chloroform	0.54	80	**	**

** Not Applicable
ug/L= Micrograms of contaminant per liter of water.

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-007**
Description: **RF-1**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1505**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/15/2013 0127	MLH		20460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Description: **RF-1**
Date Sampled: **05/01/2013 1505**
Date Received: **05/02/2013**

Laboratory ID: **OE02013-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0437	JAC		20458

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	**67-66-3**	**8260B**	**0.54**		**0.50**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
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J = Estimated result < PQL and ≥ MDL
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P = The RPD between two GC columns exceeds 40%
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N = Recovery is out of criteria
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L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Description: **RF-1**
Date Sampled: **05/01/2013 1505**
Date Received: **05/02/2013**

Laboratory ID: **OE02013-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0437	JAC		20458

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		85	70-130
Toluene-d8		81	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
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Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

June 24, 2013

MEMORANDUM

TO: Hanna Assefa, Industrial Hygienist
Superfund Section, IHSB

FROM: Vince Antrilli
Superfund Section, Inactive Hazardous Sites Branch (IHSB)

RE: Health Risk Evaluation Request
Randalls Ferry Site
17586 Randalls Ferry Rd (RF-1)
Norwood, Stanly County
NONCD 000 2812

Please find attached a copy of the laboratory analytical results for one water supply well sample. This sample was collected on May 1, 2013. Because this sample was collected from a water supply well, the IHSB requests a health risk evaluation and a recommendation for the continued use of this well. This information will be provided to the well user. The following table summarizes the detected compounds and the corresponding concentrations.

Well ID	Compound	Concentration (μg/L)	US EPA MCL (μg/L)	NC 2L (μg/L)
OE02013-007	Chloroform	0.54	80	70

If you have any questions, please contact me at 707-8353.

Attachment

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

NCDENR - DWM - DSCA
401 Oberlin Rd
Suite 210
Raleigh, NC 27605
Attention: Vincent Antrilli

Project Name: **Reinhardt Circle - Randall Ferrys Rd**

Project Number: **NONCD0002386 NONCD0002812**

Lot Number: **OE02013**

Date Completed: **05/16/2013**

N. Saikaly

Nisreen Saikaly
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

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Case Narrative
NCDENR - DWM - DSCA
Lot Number: OE02013

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
NCDENR - DWM - DSCA
Lot Number: OE02013

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Trip Blank	Aqueous	05/01/2013	05/02/2013
002	L-1	Aqueous	05/01/2013 1045	05/02/2013
003	R-1	Aqueous	05/01/2013 1115	05/02/2013
004	R-2	Aqueous	05/01/2013 1135	05/02/2013
005	R-3	Aqueous	05/01/2013 1200	05/02/2013
006	R-4	Aqueous	05/01/2013 1220	05/02/2013
007	RF-1	Aqueous	05/01/2013 1505	05/02/2013

(7 samples)

Executive Summary
NCDENR - DWM - DSCA
Lot Number: OE02013

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	L-1	Aqueous	Trichloroethene	8260B	1.1		ug/L	9
007	RF-1	Aqueous	Chloroform	8260B	0.54		ug/L	23

(2 detections)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-001**
Description: **Trip Blank**
Matrix: **Aqueous**
Date Sampled: **05/01/2013**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0032	JAC		20465

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-001**
Description: **Trip Blank**
Matrix: **Aqueous**
Date Sampled: **05/01/2013**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0032	JAC		20465

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the PQL
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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-002**
Description: **L-1**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1045**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/14/2013 2333	MLH		20460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		122	40-170

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
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L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-002**
Description: **L-1**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1045**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0054	JAC		20465

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
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Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-002**
Description: **L-1**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1045**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0054	JAC		20465

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**1.1**		**0.50**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-003**
Description: **R-1**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1115**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/14/2013 2356	MLH		20460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		136	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-003**
Description: **R-1**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1115**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0351	JAC		20458

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-003**
Description: **R-1**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1115**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0351	JAC		20458

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		81	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-004**
Description: **R-2**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1135**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/15/2013 0018	MLH		20460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		139	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-004**
Description: **R-2**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1135**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0414	JAC		20458

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time | Q = Surrogate failure
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria | L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-004**
Description: **R-2**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1135**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0414	JAC		20458

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		85	70-130
Toluene-d8		83	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-005**
Description: **R-3**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1200**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/15/2013 0041	MLH		20460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		152	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-005**
Description: **R-3**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1200**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0524	JAC		20458

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time | Q = Surrogate failure
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria | L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-005**
Description: **R-3**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1200**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0524	JAC		20458

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		84	70-130
Toluene-d8		82	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-006**
Description: **R-4**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1220**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	05/15/2013 1145	AAC		20542

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-006**
Description: **R-4**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1220**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0500	JAC		20458

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-006**
Description: **R-4**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1220**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0500	JAC		20458

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		84	70-130
Toluene-d8		80	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-007**
Description: **RF-1**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1505**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/15/2013 0127	MLH		20460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-007**
Description: **RF-1**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1505**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0437	JAC		20458

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	**67-66-3**	**8260B**	**0.54**		**0.50**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time | Q = Surrogate failure
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria | L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **OE02013-007**
Description: **RF-1**
Matrix: **Aqueous**
Date Sampled: **05/01/2013 1505**
Date Received: **05/02/2013**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2013 0437	JAC		20458

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		85	70-130
Toluene-d8		81	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ20458-001
Batch: 20458
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	05/15/2013 0046
Benzene	ND		1	0.50	ug/L	05/15/2013 0046
Bromodichloromethane	ND		1	0.50	ug/L	05/15/2013 0046
Bromoform	ND		1	0.50	ug/L	05/15/2013 0046
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	05/15/2013 0046
2-Butanone (MEK)	ND		1	10	ug/L	05/15/2013 0046
Carbon disulfide	ND		1	0.50	ug/L	05/15/2013 0046
Carbon tetrachloride	ND		1	0.50	ug/L	05/15/2013 0046
Chlorobenzene	ND		1	0.50	ug/L	05/15/2013 0046
Chloroethane	ND		1	0.50	ug/L	05/15/2013 0046
Chloroform	ND		1	0.50	ug/L	05/15/2013 0046
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	05/15/2013 0046
Cyclohexane	ND		1	0.50	ug/L	05/15/2013 0046
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	05/15/2013 0046
Dibromochloromethane	ND		1	0.50	ug/L	05/15/2013 0046
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	05/15/2013 0046
1,2-Dichlorobenzene	ND		1	0.50	ug/L	05/15/2013 0046
1,3-Dichlorobenzene	ND		1	0.50	ug/L	05/15/2013 0046
1,4-Dichlorobenzene	ND		1	0.50	ug/L	05/15/2013 0046
Dichlorodifluoromethane	ND		1	0.50	ug/L	05/15/2013 0046
1,2-Dichloroethane	ND		1	0.50	ug/L	05/15/2013 0046
1,1-Dichloroethane	ND		1	0.50	ug/L	05/15/2013 0046
1,1-Dichloroethene	ND		1	0.50	ug/L	05/15/2013 0046
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	05/15/2013 0046
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	05/15/2013 0046
1,2-Dichloropropane	ND		1	0.50	ug/L	05/15/2013 0046
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	05/15/2013 0046
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	05/15/2013 0046
Ethylbenzene	ND		1	0.50	ug/L	05/15/2013 0046
2-Hexanone	ND		1	10	ug/L	05/15/2013 0046
Isopropylbenzene	ND		1	0.50	ug/L	05/15/2013 0046
Methyl acetate	ND		1	1.0	ug/L	05/15/2013 0046
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	ug/L	05/15/2013 0046
4-Methyl-2-pentanone	ND		1	10	ug/L	05/15/2013 0046
Methylcyclohexane	ND		1	5.0	ug/L	05/15/2013 0046
Methylene chloride	ND		1	0.50	ug/L	05/15/2013 0046
Styrene	ND		1	0.50	ug/L	05/15/2013 0046
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	05/15/2013 0046
Tetrachloroethene	ND		1	0.50	ug/L	05/15/2013 0046
Toluene	ND		1	0.50	ug/L	05/15/2013 0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	0.50	ug/L	05/15/2013 0046
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	05/15/2013 0046
1,1,2-Trichloroethane	ND		1	0.50	ug/L	05/15/2013 0046
1,1,1-Trichloroethane	ND		1	0.50	ug/L	05/15/2013 0046

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ20458-001
Batch: 20458
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	0.50	ug/L	05/15/2013 0046
Trichlorofluoromethane	ND		1	0.50	ug/L	05/15/2013 0046
Vinyl chloride	ND		1	0.50	ug/L	05/15/2013 0046
Xylenes (total)	ND		1	0.50	ug/L	05/15/2013 0046

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		86	70-130
1,2-Dichloroethane-d4		95	70-130
Toluene-d8		81	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ20458-002
Batch: 20458
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	113	46-153	05/14/2013 2313
Benzene	50	49		1	98	70-130	05/14/2013 2313
Bromodichloromethane	50	45		1	90	70-130	05/14/2013 2313
Bromoform	50	48		1	96	70-130	05/14/2013 2313
Bromomethane (Methyl bromide)	50	47		1	94	60-140	05/14/2013 2313
2-Butanone (MEK)	100	120		1	125	60-140	05/14/2013 2313
Carbon disulfide	50	55		1	110	60-140	05/14/2013 2313
Carbon tetrachloride	50	45		1	89	70-130	05/14/2013 2313
Chlorobenzene	50	49		1	98	70-130	05/14/2013 2313
Chloroethane	50	52		1	103	42-163	05/14/2013 2313
Chloroform	50	50		1	101	70-130	05/14/2013 2313
Chloromethane (Methyl chloride)	50	60		1	120	20-158	05/14/2013 2313
Cyclohexane	50	48		1	96	70-130	05/14/2013 2313
1,2-Dibromo-3-chloropropane (DBCP)	50	46		1	92	70-130	05/14/2013 2313
Dibromochloromethane	50	47		1	94	70-130	05/14/2013 2313
1,2-Dibromoethane (EDB)	50	49		1	97	70-130	05/14/2013 2313
1,2-Dichlorobenzene	50	44		1	89	70-130	05/14/2013 2313
1,3-Dichlorobenzene	50	46		1	92	70-130	05/14/2013 2313
1,4-Dichlorobenzene	50	47		1	95	70-130	05/14/2013 2313
Dichlorodifluoromethane	50	54		1	108	60-140	05/14/2013 2313
1,2-Dichloroethane	50	52		1	104	70-130	05/14/2013 2313
1,1-Dichloroethane	50	47		1	93	70-130	05/14/2013 2313
1,1-Dichloroethene	50	48		1	96	70-130	05/14/2013 2313
trans-1,2-Dichloroethene	50	51		1	102	70-130	05/14/2013 2313
cis-1,2-Dichloroethene	50	50		1	99	70-130	05/14/2013 2313
1,2-Dichloropropane	50	47		1	95	70-130	05/14/2013 2313
cis-1,3-Dichloropropene	50	54		1	109	70-130	05/14/2013 2313
trans-1,3-Dichloropropene	50	53		1	107	70-130	05/14/2013 2313
Ethylbenzene	50	52		1	103	70-130	05/14/2013 2313
2-Hexanone	100	120		1	120	60-140	05/14/2013 2313
Isopropylbenzene	50	48		1	97	70-130	05/14/2013 2313
Methyl acetate	50	56		1	113	15-128	05/14/2013 2313
Methyl tertiary butyl ether (MTBE)	50	58		1	115	70-130	05/14/2013 2313
4-Methyl-2-pentanone	100	110		1	108	60-140	05/14/2013 2313
Methylcyclohexane	50	46		1	93	70-130	05/14/2013 2313
Methylene chloride	50	51		1	102	70-130	05/14/2013 2313
Styrene	50	48		1	97	70-130	05/14/2013 2313
1,1,2,2-Tetrachloroethane	50	53		1	106	70-130	05/14/2013 2313
Tetrachloroethene	50	47		1	93	70-130	05/14/2013 2313
Toluene	50	48		1	95	70-130	05/14/2013 2313
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	45		1	91	70-130	05/14/2013 2313
1,2,4-Trichlorobenzene	50	41		1	83	70-130	05/14/2013 2313
1,1,2-Trichloroethane	50	47		1	95	70-130	05/14/2013 2313
1,1,1-Trichloroethane	50	45		1	91	70-130	05/14/2013 2313

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ20458-002
Batch: 20458
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	46		1	92	70-130	05/14/2013 2313
Trichlorofluoromethane	50	53		1	106	60-140	05/14/2013 2313
Vinyl chloride	50	54		1	109	60-140	05/14/2013 2313
Xylenes (total)	100	96		1	96	70-130	05/14/2013 2313

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		98	70-130
1,2-Dichloroethane-d4		81	70-130
Toluene-d8		90	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ20458-003
Batch: 20458
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	110		1	111	1.8	46-153	20	05/14/2013 2336
Benzene	50	52		1	103	5.6	70-130	20	05/14/2013 2336
Bromodichloromethane	50	46		1	92	1.5	70-130	20	05/14/2013 2336
Bromoform	50	49		1	98	2.3	70-130	20	05/14/2013 2336
Bromomethane (Methyl bromide)	50	48		1	97	2.6	60-140	20	05/14/2013 2336
2-Butanone (MEK)	100	120		1	123	1.4	60-140	20	05/14/2013 2336
Carbon disulfide	50	59		1	118	7.3	60-140	20	05/14/2013 2336
Carbon tetrachloride	50	47		1	94	5.0	70-130	20	05/14/2013 2336
Chlorobenzene	50	52		1	103	5.5	70-130	20	05/14/2013 2336
Chloroethane	50	56		1	111	7.4	42-163	20	05/14/2013 2336
Chloroform	50	52		1	105	3.9	70-130	20	05/14/2013 2336
Chloromethane (Methyl chloride)	50	64		1	128	6.5	20-158	20	05/14/2013 2336
Cyclohexane	50	51		1	103	6.7	70-130	20	05/14/2013 2336
1,2-Dibromo-3-chloropropane (DBCP)	50	45		1	89	3.3	70-130	20	05/14/2013 2336
Dibromochloromethane	50	48		1	95	1.8	70-130	20	05/14/2013 2336
1,2-Dibromoethane (EDB)	50	49		1	99	1.6	70-130	20	05/14/2013 2336
1,2-Dichlorobenzene	50	45		1	90	1.5	70-130	20	05/14/2013 2336
1,3-Dichlorobenzene	50	48		1	96	4.4	70-130	20	05/14/2013 2336
1,4-Dichlorobenzene	50	49		1	99	4.3	70-130	20	05/14/2013 2336
Dichlorodifluoromethane	50	58		1	116	7.4	60-140	20	05/14/2013 2336
1,2-Dichloroethane	50	51		1	102	1.1	70-130	20	05/14/2013 2336
1,1-Dichloroethane	50	49		1	98	4.9	70-130	20	05/14/2013 2336
1,1-Dichloroethene	50	51		1	103	7.2	70-130	20	05/14/2013 2336
trans-1,2-Dichloroethene	50	54		1	109	5.9	70-130	20	05/14/2013 2336
cis-1,2-Dichloroethene	50	52		1	104	4.8	70-130	20	05/14/2013 2336
1,2-Dichloropropane	50	49		1	97	2.7	70-130	20	05/14/2013 2336
cis-1,3-Dichloropropene	50	56		1	112	3.1	70-130	20	05/14/2013 2336
trans-1,3-Dichloropropene	50	55		1	111	3.6	70-130	20	05/14/2013 2336
Ethylbenzene	50	56		1	112	8.2	70-130	20	05/14/2013 2336
2-Hexanone	100	120		1	125	4.3	60-140	20	05/14/2013 2336
Isopropylbenzene	50	51		1	103	6.1	70-130	20	05/14/2013 2336
Methyl acetate	50	55		1	110	2.9	15-128	20	05/14/2013 2336
Methyl tertiary butyl ether (MTBE)	50	55		1	111	3.8	70-130	20	05/14/2013 2336
4-Methyl-2-pentanone	100	110		1	106	2.6	60-140	20	05/14/2013 2336
Methylcyclohexane	50	50		1	101	8.7	70-130	20	05/14/2013 2336
Methylene chloride	50	52		1	104	2.0	70-130	20	05/14/2013 2336
Styrene	50	51		1	102	5.4	70-130	20	05/14/2013 2336
1,1,2,2-Tetrachloroethane	50	52		1	105	0.85	70-130	20	05/14/2013 2336
Tetrachloroethene	50	51		1	102	9.3	70-130	20	05/14/2013 2336
Toluene	50	50		1	101	5.5	70-130	20	05/14/2013 2336
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	49		1	97	7.4	70-130	20	05/14/2013 2336
1,2,4-Trichlorobenzene	50	42		1	84	1.3	70-130	20	05/14/2013 2336
1,1,2-Trichloroethane	50	48		1	96	1.5	70-130	20	05/14/2013 2336
1,1,1-Trichloroethane	50	47		1	95	4.1	70-130	20	05/14/2013 2336

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ20458-003
Batch: 20458
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	50		1	99	7.0	70-130	20	05/14/2013 2336
Trichlorofluoromethane	50	57		1	113	6.6	60-140	20	05/14/2013 2336
Vinyl chloride	50	59		1	117	7.8	60-140	20	05/14/2013 2336
Xylenes (total)	100	100		1	103	6.3	70-130	20	05/14/2013 2336

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		81	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: OQ20460-001
Batch: 20460
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	05/14/2013 2310

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		85	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: OQ20460-002
Batch: 20460
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	44		1	88	43-173	05/14/2013 2215

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		87	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - Duplicate

Sample ID: OE02013-005DU
Batch: 20460
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
1,4-Dioxane	ND	ND		1	0.00	20	05/15/2013 0652

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4	N	175	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MS

Sample ID: OE02013-006MS
Batch: 20460
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	ND	50	39		1	79	43-173	05/15/2013 0715

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		157	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ20465-001
Batch: 20465
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	05/14/2013 2217
Benzene	ND		1	0.50	ug/L	05/14/2013 2217
Bromodichloromethane	ND		1	0.50	ug/L	05/14/2013 2217
Bromoform	ND		1	0.50	ug/L	05/14/2013 2217
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	05/14/2013 2217
2-Butanone (MEK)	ND		1	10	ug/L	05/14/2013 2217
Carbon disulfide	ND		1	0.50	ug/L	05/14/2013 2217
Carbon tetrachloride	ND		1	0.50	ug/L	05/14/2013 2217
Chlorobenzene	ND		1	0.50	ug/L	05/14/2013 2217
Chloroethane	ND		1	0.50	ug/L	05/14/2013 2217
Chloroform	ND		1	0.50	ug/L	05/14/2013 2217
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	05/14/2013 2217
Cyclohexane	ND		1	0.50	ug/L	05/14/2013 2217
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	05/14/2013 2217
Dibromochloromethane	ND		1	0.50	ug/L	05/14/2013 2217
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	05/14/2013 2217
1,2-Dichlorobenzene	ND		1	0.50	ug/L	05/14/2013 2217
1,4-Dichlorobenzene	ND		1	0.50	ug/L	05/14/2013 2217
1,3-Dichlorobenzene	ND		1	0.50	ug/L	05/14/2013 2217
Dichlorodifluoromethane	ND		1	0.50	ug/L	05/14/2013 2217
1,1-Dichloroethane	ND		1	0.50	ug/L	05/14/2013 2217
1,2-Dichloroethane	ND		1	0.50	ug/L	05/14/2013 2217
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	05/14/2013 2217
1,1-Dichloroethene	ND		1	0.50	ug/L	05/14/2013 2217
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	05/14/2013 2217
1,2-Dichloropropane	ND		1	0.50	ug/L	05/14/2013 2217
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	05/14/2013 2217
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	05/14/2013 2217
Ethylbenzene	ND		1	0.50	ug/L	05/14/2013 2217
2-Hexanone	ND		1	10	ug/L	05/14/2013 2217
Isopropylbenzene	ND		1	0.50	ug/L	05/14/2013 2217
Methyl acetate	ND		1	1.0	ug/L	05/14/2013 2217
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	ug/L	05/14/2013 2217
4-Methyl-2-pentanone	ND		1	10	ug/L	05/14/2013 2217
Methylcyclohexane	ND		1	5.0	ug/L	05/14/2013 2217
Methylene chloride	ND		1	0.50	ug/L	05/14/2013 2217
Styrene	ND		1	0.50	ug/L	05/14/2013 2217
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	05/14/2013 2217
Tetrachloroethene	ND		1	0.50	ug/L	05/14/2013 2217
Toluene	ND		1	0.50	ug/L	05/14/2013 2217
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	0.50	ug/L	05/14/2013 2217
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	05/14/2013 2217
1,1,2-Trichloroethane	ND		1	0.50	ug/L	05/14/2013 2217
1,1,1-Trichloroethane	ND		1	0.50	ug/L	05/14/2013 2217

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ20465-001
Batch: 20465
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	0.50	ug/L	05/14/2013 2217
Trichlorofluoromethane	ND		1	0.50	ug/L	05/14/2013 2217
Vinyl chloride	ND		1	0.50	ug/L	05/14/2013 2217
Xylenes (total)	ND		1	0.50	ug/L	05/14/2013 2217

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		88	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ20465-002
Batch: 20465
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	130		1	126	46-153	05/14/2013 2048
Benzene	50	46		1	91	70-130	05/14/2013 2048
Bromodichloromethane	50	47		1	95	70-130	05/14/2013 2048
Bromoform	50	45		1	90	70-130	05/14/2013 2048
Bromomethane (Methyl bromide)	50	48		1	95	60-140	05/14/2013 2048
2-Butanone (MEK)	100	110		1	110	60-140	05/14/2013 2048
Carbon disulfide	50	48		1	96	60-140	05/14/2013 2048
Carbon tetrachloride	50	47		1	94	70-130	05/14/2013 2048
Chlorobenzene	50	46		1	91	70-130	05/14/2013 2048
Chloroethane	50	48		1	97	42-163	05/14/2013 2048
Chloroform	50	46		1	92	70-130	05/14/2013 2048
Chloromethane (Methyl chloride)	50	49		1	98	20-158	05/14/2013 2048
Cyclohexane	50	47		1	93	70-130	05/14/2013 2048
1,2-Dibromo-3-chloropropane (DBCP)	50	40		1	80	70-130	05/14/2013 2048
Dibromochloromethane	50	46		1	93	70-130	05/14/2013 2048
1,2-Dibromoethane (EDB)	50	48		1	96	70-130	05/14/2013 2048
1,2-Dichlorobenzene	50	46		1	92	70-130	05/14/2013 2048
1,4-Dichlorobenzene	50	45		1	91	70-130	05/14/2013 2048
1,3-Dichlorobenzene	50	45		1	90	70-130	05/14/2013 2048
Dichlorodifluoromethane	50	50		1	99	60-140	05/14/2013 2048
1,1-Dichloroethane	50	46		1	93	70-130	05/14/2013 2048
1,2-Dichloroethane	50	47		1	93	70-130	05/14/2013 2048
cis-1,2-Dichloroethene	50	46		1	93	70-130	05/14/2013 2048
1,1-Dichloroethene	50	47		1	95	70-130	05/14/2013 2048
trans-1,2-Dichloroethene	50	46		1	91	70-130	05/14/2013 2048
1,2-Dichloropropane	50	46		1	93	70-130	05/14/2013 2048
trans-1,3-Dichloropropene	50	47		1	94	70-130	05/14/2013 2048
cis-1,3-Dichloropropene	50	46		1	93	70-130	05/14/2013 2048
Ethylbenzene	50	45		1	91	70-130	05/14/2013 2048
2-Hexanone	100	95		1	95	60-140	05/14/2013 2048
Isopropylbenzene	50	49		1	97	70-130	05/14/2013 2048
Methyl acetate	50	50		1	101	15-128	05/14/2013 2048
Methyl tertiary butyl ether (MTBE)	50	48		1	97	70-130	05/14/2013 2048
4-Methyl-2-pentanone	100	100		1	102	60-140	05/14/2013 2048
Methylcyclohexane	50	46		1	93	70-130	05/14/2013 2048
Methylene chloride	50	47		1	94	70-130	05/14/2013 2048
Styrene	50	47		1	94	70-130	05/14/2013 2048
1,1,2,2-Tetrachloroethane	50	49		1	97	70-130	05/14/2013 2048
Tetrachloroethene	50	46		1	91	70-130	05/14/2013 2048
Toluene	50	46		1	92	70-130	05/14/2013 2048
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	47		1	93	70-130	05/14/2013 2048
1,2,4-Trichlorobenzene	50	45		1	90	70-130	05/14/2013 2048
1,1,2-Trichloroethane	50	47		1	95	70-130	05/14/2013 2048
1,1,1-Trichloroethane	50	47		1	93	70-130	05/14/2013 2048

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ20465-002
Batch: 20465
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	46		1	91	70-130	05/14/2013 2048
Trichlorofluoromethane	50	51		1	102	60-140	05/14/2013 2048
Vinyl chloride	50	48		1	97	60-140	05/14/2013 2048
Xylenes (total)	100	93		1	93	70-130	05/14/2013 2048

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ20465-003
Batch: 20465
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	130		1	125	0.70	46-153	20	05/14/2013 2110
Benzene	50	49		1	98	6.6	70-130	20	05/14/2013 2110
Bromodichloromethane	50	50		1	99	5.1	70-130	20	05/14/2013 2110
Bromoform	50	48		1	95	5.3	70-130	20	05/14/2013 2110
Bromomethane (Methyl bromide)	50	51		1	102	6.9	60-140	20	05/14/2013 2110
2-Butanone (MEK)	100	110		1	109	1.6	60-140	20	05/14/2013 2110
Carbon disulfide	50	52		1	104	8.8	60-140	20	05/14/2013 2110
Carbon tetrachloride	50	51		1	102	8.5	70-130	20	05/14/2013 2110
Chlorobenzene	50	48		1	97	5.8	70-130	20	05/14/2013 2110
Chloroethane	50	51		1	103	6.1	42-163	20	05/14/2013 2110
Chloroform	50	49		1	98	6.4	70-130	20	05/14/2013 2110
Chloromethane (Methyl chloride)	50	53		1	106	7.0	20-158	20	05/14/2013 2110
Cyclohexane	50	50		1	100	6.8	70-130	20	05/14/2013 2110
1,2-Dibromo-3-chloropropane (DBCP)	50	39		1	77	3.2	70-130	20	05/14/2013 2110
Dibromochloromethane	50	49		1	97	4.7	70-130	20	05/14/2013 2110
1,2-Dibromoethane (EDB)	50	49		1	98	2.4	70-130	20	05/14/2013 2110
1,2-Dichlorobenzene	50	47		1	94	3.0	70-130	20	05/14/2013 2110
1,4-Dichlorobenzene	50	47		1	95	4.4	70-130	20	05/14/2013 2110
1,3-Dichlorobenzene	50	48		1	95	5.1	70-130	20	05/14/2013 2110
Dichlorodifluoromethane	50	54		1	107	7.8	60-140	20	05/14/2013 2110
1,1-Dichloroethane	50	50		1	99	6.6	70-130	20	05/14/2013 2110
1,2-Dichloroethane	50	48		1	96	2.9	70-130	20	05/14/2013 2110
cis-1,2-Dichloroethene	50	49		1	99	6.2	70-130	20	05/14/2013 2110
1,1-Dichloroethene	50	51		1	102	7.5	70-130	20	05/14/2013 2110
trans-1,2-Dichloroethene	50	49		1	98	7.7	70-130	20	05/14/2013 2110
1,2-Dichloropropane	50	49		1	98	5.3	70-130	20	05/14/2013 2110
trans-1,3-Dichloropropene	50	49		1	98	3.9	70-130	20	05/14/2013 2110
cis-1,3-Dichloropropene	50	48		1	97	4.1	70-130	20	05/14/2013 2110
Ethylbenzene	50	49		1	97	6.7	70-130	20	05/14/2013 2110
2-Hexanone	100	95		1	95	0.034	60-140	20	05/14/2013 2110
Isopropylbenzene	50	51		1	102	4.8	70-130	20	05/14/2013 2110
Methyl acetate	50	50		1	100	1.2	15-128	20	05/14/2013 2110
Methyl tertiary butyl ether (MTBE)	50	50		1	100	3.0	70-130	20	05/14/2013 2110
4-Methyl-2-pentanone	100	100		1	100	1.6	60-140	20	05/14/2013 2110
Methylcyclohexane	50	50		1	99	6.9	70-130	20	05/14/2013 2110
Methylene chloride	50	49		1	99	4.8	70-130	20	05/14/2013 2110
Styrene	50	50		1	100	6.6	70-130	20	05/14/2013 2110
1,1,2,2-Tetrachloroethane	50	48		1	95	2.1	70-130	20	05/14/2013 2110
Tetrachloroethene	50	49		1	99	7.8	70-130	20	05/14/2013 2110
Toluene	50	49		1	98	6.1	70-130	20	05/14/2013 2110
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	50		1	100	6.6	70-130	20	05/14/2013 2110
1,2,4-Trichlorobenzene	50	46		1	91	1.5	70-130	20	05/14/2013 2110
1,1,2-Trichloroethane	50	49		1	97	2.5	70-130	20	05/14/2013 2110
1,1,1-Trichloroethane	50	50		1	100	7.3	70-130	20	05/14/2013 2110

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ20465-003
Batch: 20465
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	49		1	99	8.3	70-130	20	05/14/2013 2110
Trichlorofluoromethane	50	56		1	111	8.3	60-140	20	05/14/2013 2110
Vinyl chloride	50	53		1	105	8.7	60-140	20	05/14/2013 2110
Xylenes (total)	100	100		1	100	6.9	70-130	20	05/14/2013 2110

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: OE02013-002MS
Batch: 20465
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	ND	100	130		1	127	60-140	05/15/2013 0116
Benzene	ND	50	51		1	102	70-130	05/15/2013 0116
Bromodichloromethane	ND	50	51		1	101	70-130	05/15/2013 0116
Bromoform	ND	50	43		1	86	70-130	05/15/2013 0116
Bromomethane (Methyl bromide)	ND	50	52		1	104	60-140	05/15/2013 0116
2-Butanone (MEK)	ND	100	110		1	109	60-140	05/15/2013 0116
Carbon disulfide	ND	50	47		1	94	60-140	05/15/2013 0116
Carbon tetrachloride	ND	50	54		1	108	70-130	05/15/2013 0116
Chlorobenzene	ND	50	50		1	100	70-130	05/15/2013 0116
Chloroethane	ND	50	54		1	107	42-163	05/15/2013 0116
Chloroform	ND	50	51		1	102	70-130	05/15/2013 0116
Chloromethane (Methyl chloride)	ND	50	55		1	110	20-158	05/15/2013 0116
Cyclohexane	ND	50	54		1	108	70-130	05/15/2013 0116
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	37		1	74	70-130	05/15/2013 0116
Dibromochloromethane	ND	50	47		1	95	70-130	05/15/2013 0116
1,2-Dibromoethane (EDB)	ND	50	50		1	101	70-130	05/15/2013 0116
1,2-Dichlorobenzene	ND	50	48		1	96	70-130	05/15/2013 0116
1,3-Dichlorobenzene	ND	50	50		1	99	70-130	05/15/2013 0116
1,4-Dichlorobenzene	ND	50	49		1	99	70-130	05/15/2013 0116
Dichlorodifluoromethane	ND	50	59		1	118	60-140	05/15/2013 0116
1,1-Dichloroethane	ND	50	51		1	103	70-130	05/15/2013 0116
1,2-Dichloroethane	ND	50	50		1	99	70-130	05/15/2013 0116
1,1-Dichloroethene	ND	50	55		1	109	70-130	05/15/2013 0116
cis-1,2-Dichloroethene	ND	50	51		1	103	70-130	05/15/2013 0116
trans-1,2-Dichloroethene	ND	50	52		1	103	70-130	05/15/2013 0116
1,2-Dichloropropane	ND	50	51		1	102	70-130	05/15/2013 0116
cis-1,3-Dichloropropene	ND	50	48		1	95	70-130	05/15/2013 0116
trans-1,3-Dichloropropene	ND	50	47		1	94	70-130	05/15/2013 0116
Ethylbenzene	ND	50	51		1	102	70-130	05/15/2013 0116
2-Hexanone	ND	100	99		1	99	60-140	05/15/2013 0116
Isopropylbenzene	ND	50	53		1	106	70-130	05/15/2013 0116
Methyl acetate	ND	50	50		1	99	15-128	05/15/2013 0116
Methyl tertiary butyl ether (MTBE)	ND	50	50		1	100	70-130	05/15/2013 0116
4-Methyl-2-pentanone	ND	100	100		1	103	60-140	05/15/2013 0116
Methylcyclohexane	ND	50	55		1	111	70-130	05/15/2013 0116
Methylene chloride	ND	50	51		1	102	70-130	05/15/2013 0116
Styrene	ND	50	52		1	103	70-130	05/15/2013 0116
1,1,2,2-Tetrachloroethane	ND	50	50		1	100	70-130	05/15/2013 0116
Tetrachloroethene	ND	50	52		1	105	70-130	05/15/2013 0116
Toluene	ND	50	52		1	104	70-130	05/15/2013 0116
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	54		1	108	70-130	05/15/2013 0116
1,2,4-Trichlorobenzene	ND	50	45		1	90	70-130	05/15/2013 0116
1,1,1-Trichloroethane	ND	50	53		1	106	70-130	05/15/2013 0116
1,1,2-Trichloroethane	ND	50	50		1	100	70-130	05/15/2013 0116

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: OE02013-002MS
Batch: 20465
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	1.1	50	52		1	103	70-130	05/15/2013 0116
Trichlorofluoromethane	ND	50	59		1	119	60-140	05/15/2013 0116
Vinyl chloride	ND	50	56		1	111	60-140	05/15/2013 0116
Xylenes (total)	ND	100	100		1	104	70-130	05/15/2013 0116

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: OE02013-002MD
Batch: 20465
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	ND	100	130		1	129	1.3	60-140	20	05/15/2013 0138
Benzene	ND	50	51		1	103	0.24	70-130	20	05/15/2013 0138
Bromodichloromethane	ND	50	51		1	102	0.98	70-130	20	05/15/2013 0138
Bromoform	ND	50	43		1	85	1.2	70-130	20	05/15/2013 0138
Bromomethane (Methyl bromide)	ND	50	52		1	104	0.081	60-140	20	05/15/2013 0138
2-Butanone (MEK)	ND	100	110		1	114	5.0	60-140	20	05/15/2013 0138
Carbon disulfide	ND	50	45		1	91	3.2	60-140	20	05/15/2013 0138
Carbon tetrachloride	ND	50	54		1	108	0.67	70-130	20	05/15/2013 0138
Chlorobenzene	ND	50	50		1	100	0.016	70-130	20	05/15/2013 0138
Chloroethane	ND	50	53		1	107	0.30	42-163	20	05/15/2013 0138
Chloroform	ND	50	51		1	102	0.43	70-130	20	05/15/2013 0138
Chloromethane (Methyl chloride)	ND	50	55		1	110	0.11	20-158	20	05/15/2013 0138
Cyclohexane	ND	50	54		1	108	0.24	70-130	20	05/15/2013 0138
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	38		1	77	3.4	70-130	20	05/15/2013 0138
Dibromochloromethane	ND	50	47		1	94	1.3	70-130	20	05/15/2013 0138
1,2-Dibromoethane (EDB)	ND	50	51		1	101	0.48	70-130	20	05/15/2013 0138
1,2-Dichlorobenzene	ND	50	48		1	96	0.36	70-130	20	05/15/2013 0138
1,3-Dichlorobenzene	ND	50	50		1	100	0.51	70-130	20	05/15/2013 0138
1,4-Dichlorobenzene	ND	50	49		1	98	0.024	70-130	20	05/15/2013 0138
Dichlorodifluoromethane	ND	50	58		1	116	1.8	60-140	20	05/15/2013 0138
1,1-Dichloroethane	ND	50	52		1	103	0.22	70-130	20	05/15/2013 0138
1,2-Dichloroethane	ND	50	50		1	100	0.24	70-130	20	05/15/2013 0138
1,1-Dichloroethene	ND	50	54		1	108	1.3	70-130	20	05/15/2013 0138
cis-1,2-Dichloroethene	ND	50	52		1	103	0.23	70-130	20	05/15/2013 0138
trans-1,2-Dichloroethene	ND	50	52		1	103	0.058	70-130	20	05/15/2013 0138
1,2-Dichloropropane	ND	50	51		1	102	0.39	70-130	20	05/15/2013 0138
cis-1,3-Dichloropropene	ND	50	48		1	97	1.1	70-130	20	05/15/2013 0138
trans-1,3-Dichloropropene	ND	50	47		1	94	0.96	70-130	20	05/15/2013 0138
Ethylbenzene	ND	50	51		1	102	0.25	70-130	20	05/15/2013 0138
2-Hexanone	ND	100	100		1	101	2.4	60-140	20	05/15/2013 0138
Isopropylbenzene	ND	50	54		1	107	0.99	70-130	20	05/15/2013 0138
Methyl acetate	ND	50	50		1	100	0.83	15-128	20	05/15/2013 0138
Methyl tertiary butyl ether (MTBE)	ND	50	50		1	101	0.53	70-130	20	05/15/2013 0138
4-Methyl-2-pentanone	ND	100	100		1	105	1.6	60-140	20	05/15/2013 0138
Methylcyclohexane	ND	50	55		1	111	0.043	70-130	20	05/15/2013 0138
Methylene chloride	ND	50	51		1	101	0.47	70-130	20	05/15/2013 0138
Styrene	ND	50	52		1	103	0.28	70-130	20	05/15/2013 0138
1,1,2,2-Tetrachloroethane	ND	50	51		1	102	1.9	70-130	20	05/15/2013 0138
Tetrachloroethene	ND	50	53		1	106	1.3	70-130	20	05/15/2013 0138
Toluene	ND	50	52		1	105	0.58	70-130	20	05/15/2013 0138
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	54		1	108	0.55	70-130	20	05/15/2013 0138
1,2,4-Trichlorobenzene	ND	50	46		1	91	2.0	70-130	20	05/15/2013 0138
1,1,1-Trichloroethane	ND	50	53		1	106	0.017	70-130	20	05/15/2013 0138
1,1,2-Trichloroethane	ND	50	50		1	100	0.094	70-130	20	05/15/2013 0138

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: OE02013-002MD
Batch: 20465
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	1.1	50	52		1	102	0.35	70-130	20	05/15/2013 0138
Trichlorofluoromethane	ND	50	58		1	115	3.0	60-140	20	05/15/2013 0138
Vinyl chloride	ND	50	56		1	112	0.64	60-140	20	05/15/2013 0138
Xylenes (total)	ND	100	100		1	103	0.61	70-130	20	05/15/2013 0138

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: OQ20542-001
Batch: 20542
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	05/15/2013 1020

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: OQ20542-002
Batch: 20542
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	44		1	88	43-173	05/15/2013 0911

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		97	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: OQ20542-003
Batch: 20542
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	56	+	1	112	24	43-173	20	05/15/2013 0933

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		130	40-170

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number 15579

Client: NC DENR/DWM	Report to Contact: VINCE ANTPILLI	Sampler (Printed Name): LUTFI & KIRBY	Quote No.
Address: 217 W. JONES ST	Telephone No. / Fax No. / Email: (919) 707-8353	Waybill No.	Page 1 of 1
City: RALEIGH State: NC Zip Code: 27603	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio. 7. NaOH		Number of Containers / Bottle (See Instructions on back) / Preservative
Project Name: REINHARDT CIRCLE / RANDOLL FERRY RD			Lot No. 0 E 8 2013
Project Number: N0ACD000 2366 / NONCD 000 2812	P.O. Number		

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: GW	DW	WW	S	Other	Analysis: VOCs	1,4-Dioxane	Remarks / Cooler ID
TRIP BLANK	5/1/2013								✓		
L-1		1045	G	✓						✓	
R-1		1115									
R-2		1135									
R-3		1200									
R-4		1220									
RF-1		1505		✓					✓	✓	

Turn Around Time Required (Prior lab approval required for expedited TAT)	Sample Disposal	QC Requirements (Specify)	Possible Hazard Identification
☒ Standard ☐ Rush (Please Specify)	☐ Return to Client ☐ Disposal by Lab		☐Non Hazard ☐Flammable ☐Skin Irritant ☐Poison ☐Unknown

1. Relinquished by / Sampler: [signature]	Date: 5/1/13	Time: 1800	1. Received by	Date	Time
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by: Fedex	Date: 5/2/13	Time: 0900	4. Laboratory Received by: [signature]	Date: 5-2-13	Time: 0900

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on Ice (Check) ☒ Yes ☐ No ☐ Ice Pack | Receipt Temp. 3.8 °C | Temp. Blank ☒ Y / ☐ N

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc
Document Number: F-AD-016
Revision Number: 11

Replaces Date: 01/28/13
Effective Date: 04/18/13

Sample Receipt Checklist (SRC)

Client: NC DENR Cooler Inspected by/date: 5/2/13 Lot #: 0E0313

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☒ FedEx ☐ Airborne Exp ☐ Other

Yes ☒	No ☐	1. Were custody seals present on the cooler?
Yes ☒	No ☐	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt 843 / 3.8 °C / °C / °C / °C
Method: ☒ Temperature Blank ☒ Against Bottles
Method of coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☒	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☒	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☐	No ☒		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☒	NA ☐	5a Were samples relinquished by client to commercial courier?
Yes ☒	No ☐		6. Were sample IDs listed?
Yes ☒	No ☐		7. Was collection date & time listed?
Yes ☒	No ☐		8. Were tests to be performed listed on the COC?
Yes ☒	No ☐		9. Did all samples arrive in the proper containers for each test?
Yes ☒	No ☐		10. Did all container label information (ID, date, time) agree with COC?
Yes ☒	No ☐		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☒	No ☐		12. Was adequate sample volume available?
Yes ☒	No ☐		13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☒		14. Were any samples containers missing?
Yes ☐	No ☒		15. Were there any excess samples not listed on COC?
Yes ☒	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☒	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☒	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☒	19. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☒	NA ☒	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☒	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) with the SR # (number)

Sample(s) 1 (2) were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/phenol

Sample labels verified by: [signature] Date: 5/2/13

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐
SESI employee: _____ Date of response: _____
Comments: _____

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

MEMORANDUM

Date: May 3, 2013

To: File

From: Vince Antrilli
Raleigh Regional Office
Inactive Hazardous Sites Branch

Re: Randall's Ferry Rd – Sampling Trip Summary
NONCD0002812

- Wade Kirby & Bobby Lutfy visited the site on May 1, 2013 to perform well sampling in the area. They sampled the addresses list below:
  17586 Randall's Ferry Rd (RF-1)
- They only other resident in the area not connected to the public water system did not responded to sample request letters, were not available by phone and were not home during the time that we were on site to sample.
- The samples collected were sent to Shealy Lab on May 1, 2013.

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone 919-707-8200
An Equal Opportunity / Affirmative Action Employer – Printed on Dual Purpose Recycled Paper

Well Log Sheet

Site Name: Randalls Ferry Road
Site Id #: NONCD 0002812
Owner Name: Brett Austin
Well Address: 17586 Randalls Ferry Rd.
Well ID #: RF-1

Weather
Temp: 61°F
Wind: Windy
Percip: Overcast

Date: 5/1/13
Sample Team: Kirby + Laffy

Coordinates: _____ N
_____ E

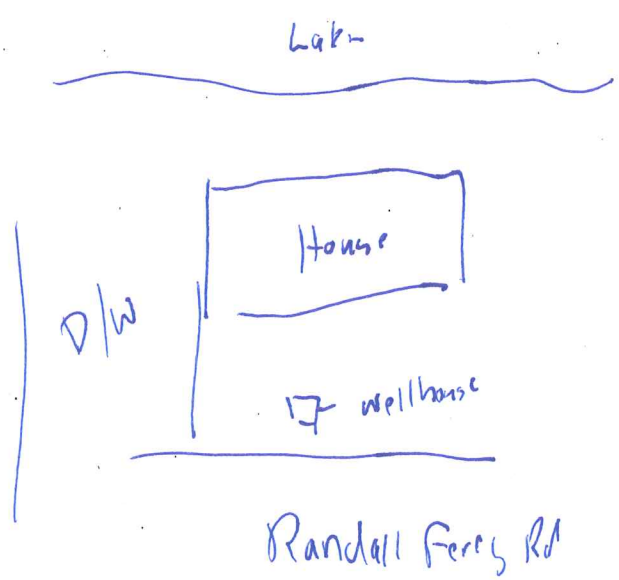
Comments (well construction, etc.) Sampled at well

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	17.2	17.2	17.3		
pH	7.59	7.52	7.50		
S.C.	182.6	183.1	181.5		
Turbidity	0.58	0.80	1.05		

Time Sample Collected: 1505

Water Condition (turbodity, color, odor): clear

Lot Layout



Samples Collected:
- X VOCs (3 - 40ml vials)
- X 1,4 Dioxane (3 - 40ml vials)
- ____ SVOCs/PCBs (1 - 2L Amber bottle)
- ____ Metals (1 - 1L HDPE bottle)
- ____ Dioxin (1 - 1L bottle)
- ____ Pest./Herb. (1 - 2L Amber bottle)

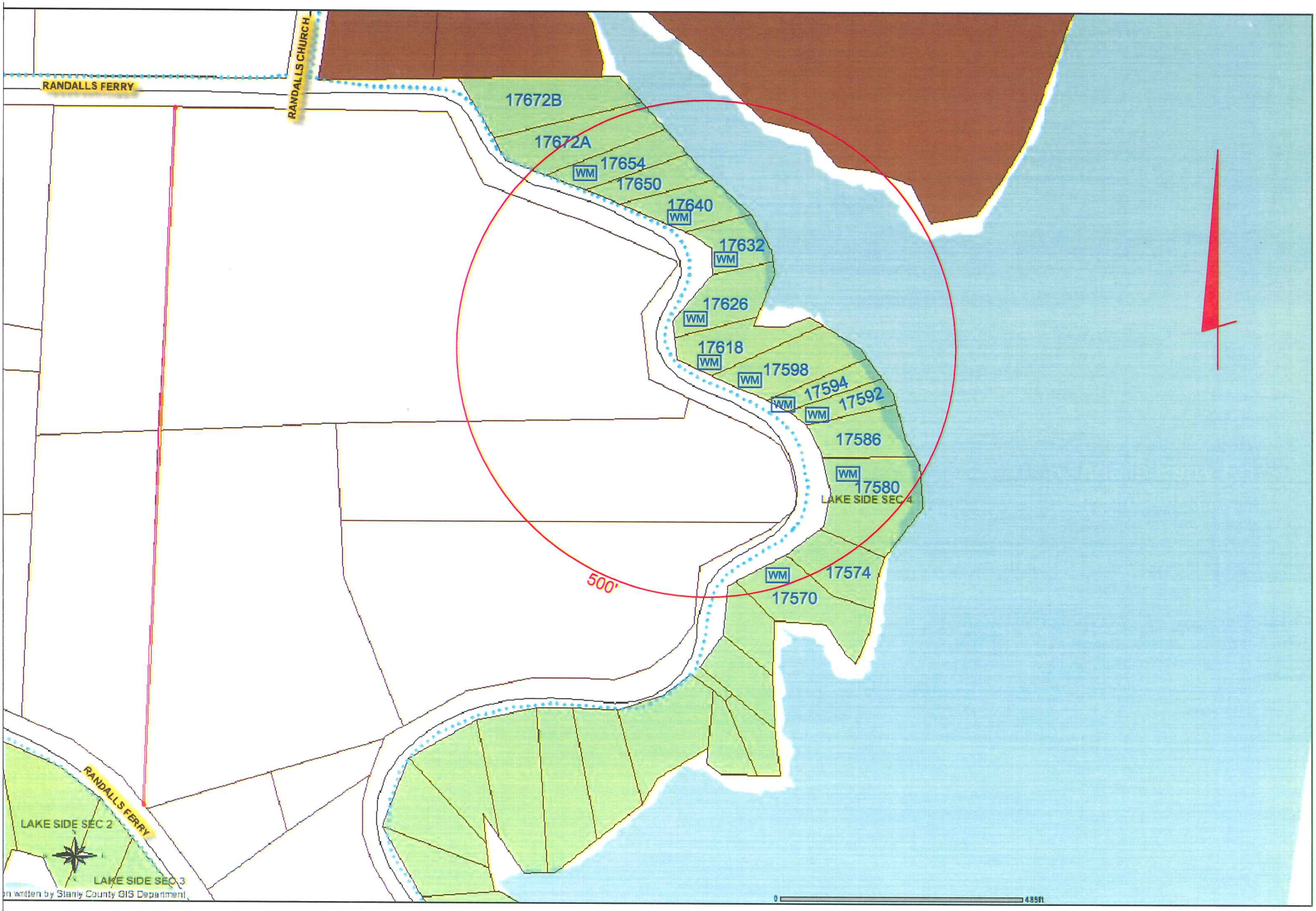
Comments:

Randalls Ferry - NONCD0002812

Well Address	Sample Date	Sample By	Well ID#	PCE 2L= 0.7 MCL= 5 RAL= 100	TCE 2L= 3 MCL= 5 RAL= 8	1,4-Dioxane 2L= 3 MCL= RAL= 611	Chloroform 2L= 70 MCL= 80 RAL= 100	1,1-DCA 2L= 6 MCL= RAL= 242	1,2-DCA 2L= 0.4 MCL= RAL=	1,1-DCE 2L= 7 MCL= 7 RAL= 7	cis-1,2-DCE 2L= 70 MCL= 70 RAL=	1,1,1-TCA 2L= 200 MCL= 200 RAL=	HRE Sent	Comments
17586 Randalls Ferry Rd	8/17/1993						1.1						y	
17618 Randalls Ferry Rd	8/17/1993											0.51	y	Connected to public water
17650 Randalls Ferry Rd														

Notes:
All units in ug/l (ppb)
Above MDL Limt = BOLD
Above 2L Limit = BOLD
Above MCL Limit = BOLD
Above RAL = BOLD
Chloroform Below 2L = NOT BOLD
HRE Sent =
*=Sample collected after filter system
(T) or (t) = Total

1,1-DCA = 1,1-Dichloroethane
1,1-DCE = 1,1-Dichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
Chloromethane (AKA - Methyl Chloride)
PCE = Tetrachloroethene
TCE = Trichloroethene



Randalls Ferry Rd
NONCD 000 2812

The information contained on this page is NOT to be construed or used as a "legal description". Map information is believed to be accurate but accuracy is not guaranteed. Any errors or omis County Geographic Information Systems Division of the Office of Information Technology. In no event will Stanly County be liable for any damages, including loss of data, lost profits, business other pecuniary loss that might arise from the use of this map or the information it contains.

• = Connected to Public Water

~~Stanly Co Public Works~~
~~704-986-3686~~

Town of Norwood
704-474-3416

= Water Main

8/27/2012 2:05:36 PM Quick Customer Listing by Location.
TOWN OF NORWOOD
Report Options - Status(ACTIVE), Book Range(10 - 10)

Location	Acct No	Customer Name	Service Address	Acct Status
10-000570	5083	DWIGHT MCCORMICK	17926 MARGIE LANE	A
10-005042	3827	JODY & LISA KIKER	17945 MARGIE LANE	A
10-005060	3838	JOHN & DIANE ZIEBARTH	17937 MARGIE LANE	A
10-005082	3522	WILLIAM S. JONES	17919 MARGIE LANE	A
10-005090	4003	STAN LEGGETT	17907 MARGIE LANE	A
10-005185	4646	TERRY TREIBER	17954 MARGIE LN	A
10-005190	4727	JOHN RITCHIE	17974 MARGIE LN	A
10-005195	4693	KRISTI HEDRICK	17988 MARGIE LN	A
10-005400	4097	RANDALL'S UMC	48144 RANDALL'S CHURCH RD	A
10-005600	4034	CHRISTOPHER WALLACE	17654 SHORE FARM RD	A
10-005999	3943	EVERETT L. HUNEYCUTT	16916 RANDALL'S FERRY RD	A
10-006040	5193	JEFFREY SMITH	47267 PARADISE LANE	A
10-006060	5035	JOHN CARPENTER	47297 PARADISE LANE	A
10-006070	3621	ALAN P. DAVIS	47303 PARADISE LANE	A
10-006080	3622	RONNIE L. HURST	47309 PARADISE LANE	A
10-006090	3623	WILLIAM HARVEY	47313 PARADISE LANE	A
10-006130	3519	ROBERT B. BRANNAN III	47333 PARADISE LN	A
10-006140	3518	LINN ALEXANDER FRYE	47343 PARADISE LN	A
10-006470	3441	JEFF WIGGINS	16869 RANDALL'S FERRY RD	A
10-006520	5876	SUSAN GRIFFIN	16976 RANDALL'S FERRY RD	A
10-006530	3620	JEANIE C. NUGENT	16986 RANDALL'S FERRY RD	A
10-006590	5805	ROBIN LEMONS	17062 RANDALL'S FERRY RD	A
10-006600	4154	JOHN CRIDER	17074 RANDALL'S FERRY RD	A
10-006602	5519	BRANDON REEVES	17092 RANDALL'S FERRY RD	A
10-006605	5479	KENT & SYBIL STOKER	16827 POINT RANDALL	A
10-006610	4436	WILLIAM KENNEDY	17100 RANDALL'S FERRY RD	A
10-006640	5008	MICHAEL G. SELLS	17146 RANDALL'S FERRY RD	A
10-006680	4499	JUDY LATHAM	17170 RANDALL'S FERRY RD	A
10-006760	3434	MARK BARRINGER	17246 RANDALL'S FERRY RD	A
10-006790	3435	WILLIAM R. HATLEY	17263 RANDALL'S FERRY RD	A
10-006800	3624	PAT KELLEY	17290 RANDALL'S FERRY RD	A
10-006860	3866	HORACE SPRINGER	17338 RANDALL'S FERRY RD	A
10-006870	3893	SHERRILL D. WILLIAMS	17344 RANDALL'S FERRY RD	A
10-006895	5892	LARRY LITAKER	48373 WEST WIND WAY	A
10-006920	4549	BOBBIE/MICKY SWAIM	17398 RANDALL'S FERRY RD	A
10-006950	3436	EVELYN M. NORRIS	17406 RANDALL'S FERRY RD	A
10-006955	3437	DELORES WIGGINS	17411 RANDALL'S FERRY RD	A
10-006960	3868	PHILIP COPE	17412 RANDALL'S FERRY RD	A
10-006970	5042	LEANNE JOHNSTON	17416 RANDALL'S FERRY RD	A
10-006980	3712	KELLY HASELEY	17426 RANDALL'S FERRY RD	A
10-006990	4275	DONALD WAIT	17434 RANDALL'S FERRY RD	A
10-006992	3692	DENNIS LATON	48020 LAND'S END RD	A
10-006994	4091	TOMMY & CHRIS VAUGHN	48007 LAND'S END RD	A
10-006995	3462	YATES TYSON	17454 RANDALL'S FERRY RD	A
10-007010	5852	ERIK & GAY VAN BRERO	17524 RANDALL'S FERRY RD	A
10-007020	4502	TIM BENNETT	17534 RANDALL'S FERRY RD	A
10-007060	3900	WADE DENNIS	17552 RANDALL'S FERRY RD	A
10-007070	4059	MAXINE LEISTER	17570 RANDALL'S FERRY RD	A
10-007090	3690	CALDWELL G. MCALISTER	17580 RANDALL'S FERRY RD	A
10-007100	4753	RANDY DULIN	17594 RANDALL'S FERRY RD	A
10-007110	3691	KENNETH R. CARPENTER	17592 RANDALL'S FERRY RD	A
10-007130	5204	JOSEPH VAUGHAN	17598 RANDALL'S FERRY RD	A
10-007140	3388	OLIVER R. STEPHENSON, JR.	17618 RANDALL'S FERRY RD	A
10-007150	5803	AMY HOUSE	17626 RANDALLS FERRY RD	A
10-007160	3439	J. DONALD BRUMMITT	17632 RANDALL'S FERRY RD	A
10-007170	3438	WILLIAM MORRIS	17640 RANDALL'S FERRY RD	A
10-007200	5478	JENNIFER MCSWAIN	17654 RANDALL'S FERRY RD	A
10-008000	4221	GEORGE GOOD	48019 LAND'S END RD	A
10-008010	4224	DEWEY POPLIN	48025 LAND'S END RD	A
10-008020	4601	ELAINE CLODFELTER	48034 LAND'S END RD	A
10-008030	4934	TOMMY VAUGHN	48026 LAND'S END RD.	A

*Town of Norwood 704-474-3416

~~Stanly County Public Works (704)986-3686~~

Connected to city water- 17618 Randalls Ferry Rd. Y

17592 Randalls Ferry Rd. Y

17594 Randalls Ferry Rd. Y

17598 Randalls Ferry Rd. Y

17586 -

17580 - Y

17574 -

17626 - Y

17632 - Y

17640 - Y

17650 -

17654 - Y

Randall's Ferry Rd, Stanly County Addresses (NONCD0002812)

Well Address	Parcel ID#	Owner / Mailing Address	Phone # / email	Sampling Permission
17650 Randalls Ferry Rd		Brian Irving 100 Townton Ct Waxhaw, NC 28173		
17586 Randalls Ferry Rd		Brett & Christen Austin 512 Chrismill Ln Holly Springs, NC 27540		yes, email

NCDENR
North Carolina Department of Environment and Natural Resources
Division of Waste Management
Dexter R. Matthews
Director

Pat McCrory
Governor

John E. Skvarla, III
Secretary

April 9, 2013

Brian A Irving Sr
100 Towton Court
Waxhaw, NC 28173

RE: Water Supply Well Sampling – Randalls Ferry Rd Supply Wells site (NONCD 0002812)

Dear Mr. Irving:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well located at **17650 Randalls Ferry Road in Norwood, Stanly County,** as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

Please contact me by one of the following ways to confirm that ***we may*** collect a sample from your well. You can reach me by calling **(919) 707-8353**, emailing me at **Vincent.Antrilli@ncdenr.gov** or by responding to this letter stating that you are granting permission for the State to sample your well. **If you have any questions, comments, or concerns, please contact me.**

Sincerely,

Vincent Antrilli, Jr.

Vincent Antrilli, Jr.
Environmental Specialist
Inactive Hazardous Sites Branch
Superfund Section

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-707-8200 \ Internet: http://portal.ncdenr.org/web/wm

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NCDENR
North Carolina Department of Environment and Natural Resources
Division of Waste Management
Dexter R. Matthews
Director

Pat McCrory
Governor

John E. Skvarla, III
Secretary

April 9, 2013

Brett H. & Christen S. Austin
512 Chrismill Lane
Holly Springs, NC 27540

RE: Water Supply Well Sampling – Randalls Ferry Rd Supply Wells site (NONCD 0002812)

Dear Mr. & Mrs. Austin:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well located at **17586 Randalls Ferry Road in Norwood, Stanly County,** as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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Sincerely,

Vincent Antrilli, Jr.

Vincent Antrilli, Jr.
Environmental Specialist
Inactive Hazardous Sites Branch
Superfund Section

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-707-8200 \ Internet: http://portal.ncdenr.org/web/wm

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SITE HEALTH AND SAFETY PLAN

A. General Information

Site Name Randalls Ferry Road Wells ID # NONCD 000 2812

Location 17586 Randalls Ferry Road, Norwood, Stanly County, NC

Proposed Date of Investigation 5/1/13 to 6/1/13

Date of Briefing 4/30/13

Date of Debriefing 6/3/13

Nature of Visit (check one):

On-Site Reconnaissance	
Off-Site Reconnaissance	
Sampling	X
Sampling Overview	
Remediation Overview	

Health Department Official Contacted David Ezzell's voice mail

Date of Contact 4/30/13

Site Investigation Team: All site personnel have read the Site Health and Safety Plan and are familiar with its provisions.

	Personnel	Responsibilities	Signature
Team 1	Vince Antrilli	team leader, sampling	
Team 1	Bobby Lutfy	sampling	
Team 1	Wade Kirby	sampling	

Plan Preparation:

Prepared By: David Lilley, Industrial Hygiene Consultant

Reviewed By: Jim Bateson, Superfund Section Chief

B. SITE/WASTE CHARACTERISTICS

Waste Type(s) __X__ Liquid _____ Solid _____ Sludge __X__ Gas __X__ Vapor

Characteristics _____ Corrosive _____ Ignitable _____ Radioactive

__X__ Volatile __X__ Toxic _____ Reactive _____ Other

List Known or Suspected Hazards (physical, chemical biological or radioactive) on Site and their toxicological effects. Also, if known, list chemical amounts

HAZARD	WARNING PROPERTIES	EXPOSURE LIMIT
1,1,1-Trichloroethane	Odor Threshold = 400 ppm	350 ppm

UNDERGROUND UTILITIES CHECKLIST

Utility Location	Locator/Contact Person	Phone #	Date of
Power			
Telephone			
Gas			
Water			
Sewer			

Call made by:

ID # NONCD 000 2812

Facility Description: Size unknown Buildings unknown

Disposal Methods Being Investigated No disposal of material or methods of disposal have been reported.

Unusual Features on Site (dike integrity, power lines, terrain, etc.):

None known

History of the Site: Limited groundwater contamination from an unknown source.

C. HAZARD EVALUATION

The site can be toured and sampled in level D protection. PVC gloves will be worn while collecting water samples. Chemically resistant knee length boots will be worn on site if the potential for surface soil contamination exists.

D. WORK PLAN INSTRUCTION

Map or Sketch Attached? yes

Perimeter Identified? no

Command Post Identified? no

Zones of Contamination Identified? no

Personal Protective Equipment/Level of Protection: _____C ___X_D

Modifications Wear goggles, face shield, and PVC gloves while preparing acid preserved samples, goggles and PVC gloves while collecting acid preserved samples. Avoid breathing acid vapors.

ID # NONCD 000 2812

Surveillance Equipment:

_____	HNU	_____	Detector Tubes and Pumps
_____	OVA	_____	02 Meter
_____	Explosimeter	_____	Radiation Monitor

Decontamination Procedures

_____Level C Respirator wash, respirator removal, suit wash (if needed), suit removal, boot wash, boot removal and glove removal.

__X__Level D Boot wash and rinse and boot removal, suit removal, glove and goggle removal.

Modifications Dispose of trash properly, on-site if possible.

Work Schedule/Visit Objectives The purpose of this visit is to determine if the site poses a threat to the public health or environment because of releases of contaminants to soil, surface water, groundwater, or air. Sampling may consist of groundwater sampling.

EMERGENCY PRECAUTIONS

Route of Exposure	First Aid
Eyes	irrigate immediately
Skin	soap and water wash
Inhalation	fresh air and artificial respiration
Ingestion	get medical attention immediately

ID # NONCD 000 2812

Location of Nearest Phone: nearby residences

Hospital (Address and Phone Number)

Stanly Memorial Hospital, 301 Yadkin Street, Albermarle, NC (704) 984-4347

Emergency Transportation Systems (Phone Numbers)

Fire 911

Ambulance 911

Rescue Squad 911

Emergency Route to Hospital see next page

PREVAILING WEATHER CONDITIONS AND FORECAST

		EQUIPMENT CHECKLIST	
	Air purifying respirator	X	First Aid Kit
	Cartridges for respirator	X	3 gal. Deionized H20
X	Eye Wash Unit	X	Rain suit
	HNU	X	Gloves (PE/PVC/nitrile/cloth)
	OVA	X	Boots/Boot Covers
	Explosimeter	X	Coveralls (tyvek/saranex)
	Radiation Monitor	X	Eye Protection (goggles/shield)
X	Decontamination Materials	X	Hard Hat

STATE POISON CONTROL CENTER
1-800-848-6946

North Carolina OSHA
1-800-LABOR-NC

Please complete and submit the Air Monitoring and Injury Report Form.

mapquest

Trip to:

301 Yadkin St

Albemarle, NC 28001-3441

11.94 miles / 24 minutes

Notes

New Rule in North Carolina

(Apr 2013) Raleigh - If you drive in North Carolina you better read this... **Learn More »**

Insurance.Comparisons.org

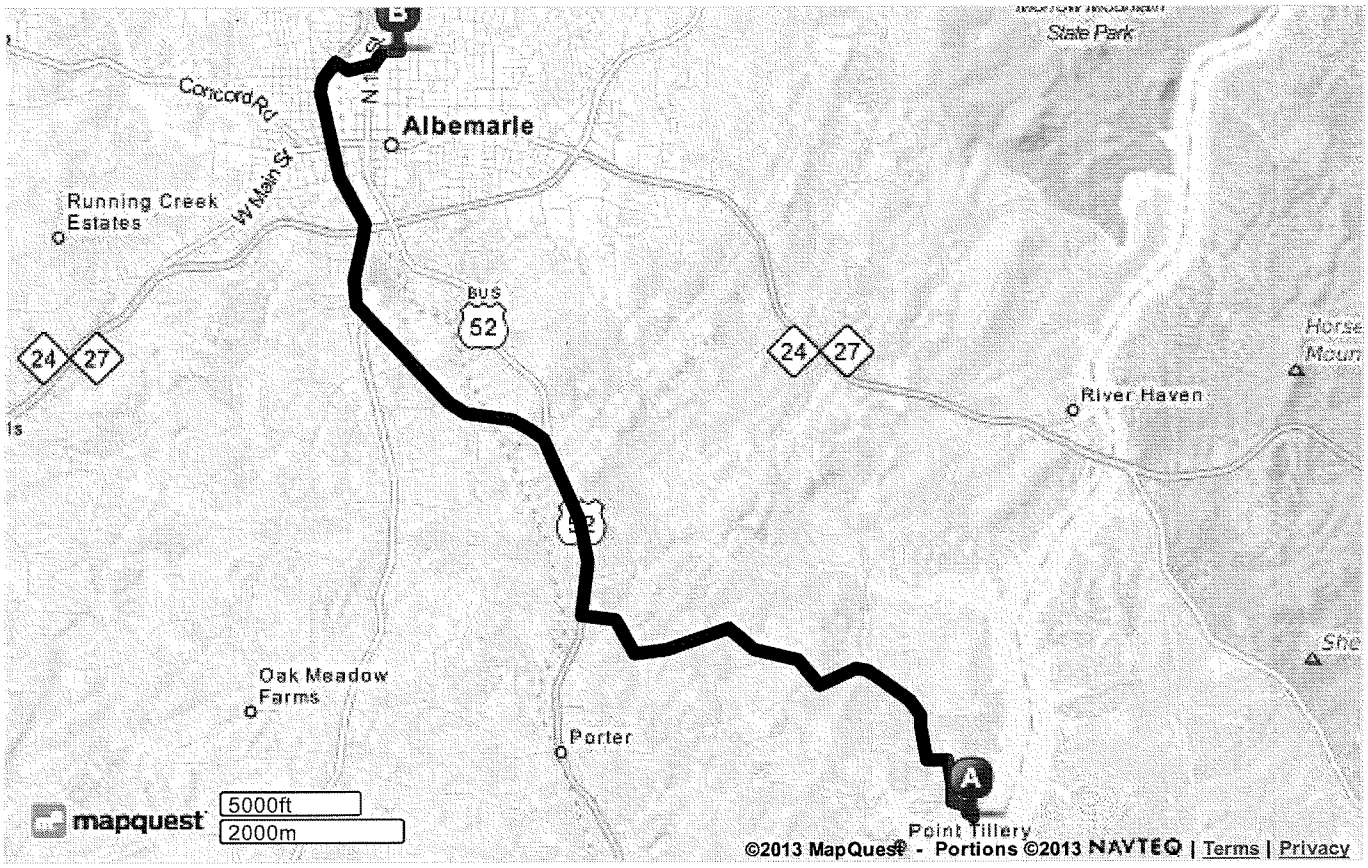
17586 Randalls Ferry Rd, Norwood, NC 28128-7461

1.	Start out going **northwest** on **Randalls Ferry Rd** toward **Randalls Church Rd.** Map	**0.3 Mi** *0.3 Mi Total*
2.	Take the 1st **right** onto **Randalls Church Rd.** Map *If you reach Paradise Ln you've gone about 0.3 miles too far*	**0.6 Mi** *0.9 Mi Total*
3.	Turn **right** onto **Shore Farm Rd.** Map *Shore Farm Rd is 0.3 miles past Snuggs Ridge Ln* *If you reach Margie Ln you've gone about 0.3 miles too far*	**0.4 Mi** *1.3 Mi Total*
4.	Take the 1st **left** onto **Mark Joseph Rd.** Map *If you reach Indian Mound Rd you've gone about 0.9 miles too far*	**0.5 Mi** *1.8 Mi Total*
5.	Turn **right** onto **Indian Mound Rd.** Map	**0.01 Mi** *1.8 Mi Total*
6.	Take the 1st **left** onto **Dennis Rd.** Map *If you reach Shore Farm Rd you've gone about 0.2 miles too far*	**3.2 Mi** *5.0 Mi Total*
7.	Turn **right** onto **US-52**. Map	**6.2 Mi** *11.3 Mi Total*
8.	Turn **right** onto **Salisbury Ave.** Map *Salisbury Ave is just past Corbin St* *EXPRESS MART is on the corner* *If you reach Ash St you've gone a little too far*	**0.4 Mi** *11.6 Mi Total*
9.	Turn **slight left** onto **N 2nd St.** Map *N 2nd St is just past N 1st St* *Ly Cuisine is on the corner*	**0.1 Mi** *11.8 Mi Total*
10.	Take the 2nd **right** onto **Yadkin St.** Map *Yadkin St is just past East St* *If you reach Penny St you've gone about 0.1 miles too far*	**0.2 Mi** *11.9 Mi Total*
11.	**301 YADKIN ST** is on the **left**. Map	

Your destination is just past N 3rd St
If you reach N 5th St you've gone a little too far

301 Yadkin St, Albemarle, NC 28001-3441

Total Travel Estimate: **11.94 miles - about 24 minutes**



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HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: 1,1,1 Trichloroethane (Methyl Chloroform)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula C2 H3 C13	1
Natural Physical State at 25EC liquid	1
Vapor Pressure 100 mm Hg at 20EC	2
Melting Point -23EF/EC Boiling Point 165 EF/EC	2
Flash Point (open or closed cup) autoignitionEC/EF	3
Solubility - H_2O 0.4% temperature = 500EC	2
Other Soluble in acetone, benzene, carbon tetrachloride, methanol, ether	1

Physical Features: (odor, color, etc.) Colorless liquid with a mild chloroform-like odor (2) IP = 11.5 eV

II. TOXICOLOGICAL DATA

Standards: 350 ppm (4) TLV 350 ppm (5) PEL 1000 ppm (2) IDLH

Routes of Exposure: Inhalation, Ingestion, and skin and/or eye contact.

Acute/Chronic Symptoms: Headaches, lassitude, central nervous system depression, poor equilibrium, eye irritation, dermatitis, cardiac arrhythmias (irregular heart beat) (2)

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately.

Chemical Name: 1,1,1 Trichlorethane

III. HAZARDOUS CHARACTERISTICS Reference

A. Combustibility Yes X No ____ 2

Toxic by-products _____ _____

_____ _____

B. Flammability LEL 8% UEL 10.5% 3

C. Reactivity Hazard Incompatible with strong caustics, strong oxidizers, chemically active metals, such as aluminum, magnesium, powders, sodium, potassium. 2

D. Corrosivity Hazard yes/no pH: _____
Neutralizing agent: _____

E. Radioactive Hazard Exposure Rate

Background	yes/no	_____
Alpha particles	yes/no	_____
Beta particles	yes/no	_____
Gamma radiation	yes/no	_____

IV. REFERENCES

1. The Merck Index, 11th Edition, 1989
2. Pocket Guide to Chemical Hazards, NIOSH, 1990
3. Chemical and Engineering News, December 12, 1988.
4. Threshold Limit Values and Biological Exposure Indices for 2003 ACGIH
5. CFR 1910.1000

CORVEL

WC Authorization | Physician's Report | Pharmacy Guide

MAILING ADDRESS: P.O. Box 77880, Charlotte, NC 28271
800-365-5998 www.corvel.com

EMPLOYER: Please complete the top section and give to the injured employee to take with them to their authorized treating physician. If you already have transitional duty job descriptions available, please attach a copy for the treating physician's review.

Name of Employee: **Last:**	**First:**
Date of Injury:	
Name of Employer:	
Employer Signature:	Treating Physician:

EMPLOYEE: Please take this form with you to an authorized treating physician. Please have the physician complete the middle section and return this immediately to your employer. The bottom section is for you to show the pharmacist should you need to have any prescriptions filled as prescribed by your authorized treating physician for this work related injury.

AUTHORIZED PHYSICIAN, PLEASE COMPLETE

Diagnosis: _____

A post accident drug test (check one) ( ) **has** been completed ( ) **has not** been completed

In accordance with this patient's physical capability, check all that apply:

( ) May resume work immediately, no restriction.
( ) May resume work immediately with the following restrictions:
- ( ) Sedentary work (sitting, occasional walking, standing, lifting less than 10 pounds)
- ( ) Light work (lifting less than 20 pounds)
- ( ) Medium work (lifting less than 50 pounds)
- ( ) Heavy work (lifting less than 100 pounds)
- ( ) Normal shift
- ( ) Limited hours: ____ hrs, _____hrs, _____hrs per day
- ( ) Other: _____

( ) Repetitive Motion Restrictions (specific to hand/arm injuries):

Frequency	**Left**	**Right**
No Use		
Occasional <33% of time		
Frequent 34-66% of time		
Regular 67-100% of time		

( ) Patient may return to work at full duty on (date) _____
( ) Patient has a return appointment on (date) _____ at (time) _____

Please indicate any referrals that are required: _____

_____ **Physician's Signature** _____ **Date** _____ **Physician's Name (type or print)**

Physician Offices – Be sure to contact CorVel's Claim Department at 800-365-5998 for authorization for the referral.

PHARMACIST: Please use the Injured Worker's **SSN and Date of Injury (SSN+MMDDYYYY)** as their 17 digit Identification Number when entering information to process an online claim to CorVel on behalf of Department of Environmental and Natural Resources injured employees. Pharmacies can contact the **CorVel Customer Service at 800-563-8438 or CVS/Caremark Pharmacy Help Desk at 877-876-7216,** for assistance with claims processing.

DO NOT CHARGE THE PATIENT FOR THE PRESCRIPTION.

CHAIN NAME	CHAIN NAME	CHAIN NAME	CHAIN NAME
Bi-Lo Pharmacy	Horizon Pharmacy	Revco drugs	VIX Pharmacy
Bi-Mart	HyVee Drugtown	Rite-Aid drugs	Walgreen's
Brooks Drugs	J & J Pharmacy	RX Discount Pharmacy	Wal-Mart Pharmacy
Brookshire Brothers	Joel & Jerry's	Sack-n-Save	Wegman Pharmacy
Cub Pharmacy	Kash N Karry	Sav-A-Lot	Winn-Dixie
CVS Drugs	Kerr Drugs	Sams Club Pharmacy	
Drug Emporium	K-mart phcy	Save Mart	
Eckerds(all others)	Long's Phcy	Stop N Shop	
Franck's Pharmacy	Medicine Shoppe	Super D	
Fred Meyer	Medistat Phcy	Super Valu	
Fred's Pharmacy	Milner-Rushing Drugs	Super X (HSI)	
Giant Pharmacy	Pathmark Pharmacy	Tom Thumb Phcy	
Goodings	Perry Drg Str	Tops Pharmacy	
Hannaford Food &	Phar-Mor	Tri Daly Drugs	

Group Number: RXFFWC311
CCRx BIN: 004336
PCN: ADV Rev. 6/10
Dept. of Environ. & Natural Res.

CORVEL

*** All participating pharmacies have not been included on this list. Please have your pharmacy call regarding any questions/ authorizations 800-563-8438.**