Needmore General Store, Wake County Addresses (NONCD0002882)

Well Address	Parcel ID#	Owner / Mailing Address	Phone # / email	Sampling Permission
6528 Vintage Ridge Ln	668524109	Douglas & Kimberly McKinney 6528 Vintage Ridge Ln Fuquay Varina, NC 27526		
6532 Vintage Ridge Ln N-3	668524065	John & Judith Carroll 6532 Vintage Ridge Ln Fuquay Varina, NC 27526		Yes by email
6540 Vintage Ridge Ln N-4	668514971	Fleming & Carolyn Wester 6540 Vintage Ridge Ln Fuquay Varina, NC 27526		yes by phone. Left side of hse by holly tree or back of hse
6544 Vintage Ridge Ln	668515830	Maureen Tomshack 6544 Vintage Ridge Ln Fuquay Varina, NC 27526		
6548 Vintage Ridge Ln N-5	668514666	Nyle & Theresa Hothem 6548 Vintage Ridge Ln Fuquay Varina, NC 27526		Yes by email
6552 Vintage Ridge Ln N-6	668514427	Steven & Betty Silvers 6552 Vintage Ridge Ln Fuquay Varina, NC 27526		yes by phone
6556 Vintage Ridge Ln N-7	668516424	Wesley & Melinda Dunn 6556 Vintage Ridge Ln Fuquay Varina, NC 27526		Yes by phone
6557 Vintage Ridge Ln N-8	668517446	James & Tina Canfield 6557 Vintage Ridge Ln Fuquay Varina, NC 27526		Yes by email
6553 Vintage Ridge Ln	668519439 F-V	Curtis Phelan ~~PO Box 66~~ 6553 Vintage Ridge Ln ~~Holly Springs~~, NC 27540~~-~~ 26	919 422 1448 curtphelan@phelanbuilding.com	Yes 6-28-12
6549 Vintage Ridge Ln	668518667	Franklin & Teresa Jackson 6549 Vintage Ridge Ln Fuquay Varina, NC 27526		
6545 Vintage Ridge Ln N-9	668518841	Michael & Suzanne Alford 6545 Vintage Rige Ln Fuquay Varina, NC 27526		Yes by email
6541 Vintage Ridge Ln N-10	668518936	Bradley & Charlenne Rhinehalt 6541 Vintage Ridge Ln Fuquay Varina, NC 27526		Yes by email
6537 Vintage Ridge Ln	668527056	Jeffrey & Sarah Morrison 6537 Vintage Ridge Ln Fuquay Varina, NC 27526		
6533 Vintage Ridge Ln	668527117	Thomas & Lois Callaghan 6533 Vintage Ridge Ln Fuquay Varina, NC 27526		

Well Address	Parcel ID#	Owner / Mailing Address	Phone # / email	Sampling Permission
6529 Vintage Ridge Ln N-11	668526342	Carl & Eueletta Schoeneman 6529 Vintage Ridge Ln Fuquay Varina, NC 27526		Yes by email
6521 Vintage Ridge Ln N-12	668525498	Altina Taylor 6521 Vintage Ridge Ln Fuquay Varina, NC 27526	919-567-0567	Yes by Phone
6505 Vintage Ridge Ln	668526983	Marc & Joan Jarrad 6505 Vintage Ridge Ln Fuquay Varina, NC 27526		
6501 Vintage Ridge Ln	668538011	Olga & Sergey Zhitova 6501 Vintage Ridge Ln Fuquay Varina, NC 27526		
6500 Vintage Ridge Ln	688536128	Stephen & Jodie Sgroi 6500 Vintage Ridge Ln Fuquay Varina, NC 27526		
6408 Vintage Ridge Ln N-17	668537358	Sean & Mandi Loftis 6408 Vintage Ridge Ln Fuquay Varina, NC 27526		yes by email
6404 Vintage Ridge Ln	668539447	Charles Carter 6404 Vintage Ridge Ln Fuquay Varina, NC 27526		
6400 Vintage Ridge Ln N-16	668532458	Scott & Deborah ~~Culbertson~~ Jourdan 6400 Vintate Ridge Ln Fuquay Varina, NC 27526	919-606-4977	Yes email
6401 Vintage Ridge Ln N-15	668631395	Jeffery & Virgina Nottingham 6401 Vintage Ridge Ln Fuquay Varina, NC 27526	919-306-1444 cell	Yes by phone
6405 Vintage Ridge Ln N-13	668630274	William Barbour 6405 Vintage Ridge Ln Fuquay Varina, NC 27526	919-427-9047	Yes by phone
6409 Vintage Ridge Ln N-14	668539151	Thomas & Tari Ryan 6409 Vintage Ridge Ln Fuquay Varina, NC 27526		Yes in person
1828 Bass Lake Rd N-18	668435433	Patsy Sawyer & Melissa Williams 1828 Bass Lake Rd Fuquay Varina, NC 27526	City Water No Power to well well stopped being used because it was tainted	Yes by email
1833 Bass Lake Rd	668433677	Maurice Weaver 8029 Kensington Dr Fuquay Varina, NC 27526		
1808 Bass Lake Rd	668430414	James Bullock 1808 Bass Lake Rd Fuquay Varina, NC 27526	919-552-4832	Yes by phone

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

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

Project Name: **Needmore General Store**

Project Number: **NONCD 000 2882**

Lot Number: **NF22011**

Date Completed: **07/06/2012**

N. Saikaly

Nisreen Saikaly
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

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

Case Narrative
NCDENR - DWM - DSCA
Lot Number: NF22011

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.

Volatile Organic Compounds

The surrogate recovery for samples -006, -009, -010 and -011 was above the acceptance limit. The associated sample results were non-detect, therefore the results were reported and no corrective action was required.

The LCS/LCSD recovery for 1,1,2-Trichloro-1,2,2-Trifluoroethane exceeded method control limits in batch 88318; however, all other QA/QC criteria for the LCS/LCSD were within acceptance criteria and method control limits. The associated sample results were non-detect, therefore the results were reported and no corrective action was required.

The LCS/LCSD recovery for Carbon disulfide exceeded method control limits in batch 88445; however, all other QA/QC criteria for the LCS/LCSD were within acceptance criteria and method control limits. The associated sample results were non-detect, therefore the results were reported and no corrective action was required.

Sample Summary
NCDENR - DWM - DSCA
Lot Number: NF22011

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Trip Blank	Aqueous	06/21/2012	06/22/2012
002	N-3	Aqueous	06/21/2012 0810	06/22/2012
003	N-4	Aqueous	06/21/2012 0830	06/22/2012
004	N-5	Aqueous	06/21/2012 0845	06/22/2012
005	N-6	Aqueous	06/21/2012 0910	06/22/2012
006	N-7	Aqueous	06/21/2012 0925	06/22/2012
007	N-8	Aqueous	06/21/2012 0945	06/22/2012
008	N-9	Aqueous	06/21/2012 1005	06/22/2012
009	N-10	Aqueous	06/21/2012 1035	06/22/2012
010	N-11	Aqueous	06/21/2012 1105	06/22/2012
011	N-12	Aqueous	06/21/2012 1120	06/22/2012
012	N-13	Aqueous	06/21/2012 1145	06/22/2012
013	N-14	Aqueous	06/21/2012 1205	06/22/2012
014	N-15	Aqueous	06/21/2012 1355	06/22/2012
015	N-16	Aqueous	06/21/2012 1410	06/22/2012
016	N-17	Aqueous	06/21/2012 1435	06/22/2012
017	N-18	Aqueous	06/21/2012 1510	06/22/2012

(17 samples)

Executive Summary
NCDENR - DWM - DSCA
Lot Number: NF22011

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	N-3	Aqueous	1,2-Dichloropropane	8260B	0.41	J	ug/L	7
004	N-5	Aqueous	1,2-Dichloropropane	8260B	0.34	J	ug/L	11
010	N-11	Aqueous	1,2-Dichloropropane	8260B	0.80	J	ug/L	23
011	N-12	Aqueous	1,2-Dichloropropane	8260B	0.87	J	ug/L	25

(4 detections)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Description: **Trip Blank**
Date Sampled: **06/21/2012**
Date Received: **06/22/2012**

Laboratory ID: **NF22011-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 0955	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5 0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5 0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0 98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-001**

Description: **Trip Blank** Matrix: **Aqueous**

Date Sampled: **06/21/2012**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 0955	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		92	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-002**

Description: **N-3** Matrix. **Aqueous**

Date Sampled: **06/21/2012 0810**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1018	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1 7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5 0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	**78-87-5**	**8260B**	**0.41**	**J**	**5.0**	**0.30**	**ug/L**	**1**
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-002**

Description: **N-3** Matrix: **Aqueous**

Date Sampled: **06/21/2012 0810**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1018	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1 7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		120	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		112	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** | Laboratory ID: **NF22011-003**

Description: **N-4** | Matrix: **Aqueous**

Date Sampled: **06/21/2012 0830**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1041	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5 0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5 0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0 30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1 7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-003**
Description: **N-4**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 0830**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1041	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		99	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-004**
Description: **N-5**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 0845**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1104	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1 7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0 30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1 7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5 0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5 0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	**78-87-5**	**8260B**	**0.34**	**J**	**5.0**	**0.30**	**ug/L**	**1**
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-004**
Description: **N-5**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 0845**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1104	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1 7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		130	70-130
Bromofluorobenzene		119	70-130
Toluene-d8		121	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-005**

Description: **N-6** Matrix: **Aqueous**

Date Sampled: **06/21/2012 0910**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1127	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1 7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5 0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0 60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5 0	1 7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1 7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1 7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0 95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5 0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-005**
Description: **N-6**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 0910**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1127	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5 0	0 30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	N	225	70-130
Bromofluorobenzene	N	201	70-130
Toluene-d8	N	208	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-006**

Description: **N-7** Matrix: **Aqueous**

Date Sampled: **06/21/2012 0925**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/05/2012 1730	AAC		88445

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1 7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-006**
Description: **N-7**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 0925**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/05/2012 1730	AAC		88445

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1 7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
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%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-007**
Description: **N-8**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 0945**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1214	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-007**
Description: **N-8**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 0945**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1214	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
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%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-008**

Description: **N-9** Matrix: **Aqueous**

Date Sampled: **06/21/2012 1005**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1237	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6 7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1 7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1 7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1 7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1 0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1 0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-008**
Description: **N-9**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 1005**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1237	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0 30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0 30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		116	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		109	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-009**

Description: **N-10** Matrix: **Aqueous**

Date Sampled: **06/21/2012 1035**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1300	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1 7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1 7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0 30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5 0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5 0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5 0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-009**
Description: **N-10**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 1035**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1300	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5 0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	N	149	70-130
Bromofluorobenzene	N	137	70-130
Toluene-d8	N	136	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-010**
Description: **N-11**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 1105**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1323	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	**78-87-5**	**8260B**	**0.80**	**J**	**5.0**	**0.30**	**ug/L**	**1**
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-010**
Description: **N-11**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 1105**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1323	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	N	149	70-130
Bromofluorobenzene	N	137	70-130
Toluene-d8	N	139	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-011**

Description: **N-12** Matrix: **Aqueous**

Date Sampled: **06/21/2012 1120**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1347	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5 0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5 0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	**78-87-5**	**8260B**	**0.87**	**J**	**5.0**	**0.30**	**ug/L**	**1**
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5 0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-011**
Description: **N-12**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 1120**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1347	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0 30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0 10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	N	171	70-130
Bromofluorobenzene	N	162	70-130
Toluene-d8	N	161	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-012**

Description: **N-13** Matrix: **Aqueous**

Date Sampled: **06/21/2012 1145**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1410	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5 0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5 0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0 20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-012**

Description: **N-13** Matrix: **Aqueous**

Date Sampled: **06/21/2012 1145**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1410	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		101	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** | Laboratory ID: **NF22011-013**

Description: **N-14** | Matrix: **Aqueous**

Date Sampled: **06/21/2012 1205**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1433	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1 7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1 7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0 30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5 0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5 0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5 0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1 7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1 0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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

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

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Description: **N-14**
Date Sampled: **06/21/2012 1205**
Date Received: **06/22/2012**

Laboratory ID: **NF22011-013**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1433	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
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%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-014**

Description: **N-15** Matrix: **Aqueous**

Date Sampled: **06/21/2012 1355**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1457	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0 30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0 30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1 7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0 30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Description: **N-15**
Date Sampled: **06/21/2012 1355**
Date Received: **06/22/2012**

Laboratory ID: **NF22011-014**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1457	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-015**

Description: **N-16** Matrix: **Aqueous**

Date Sampled: **06/21/2012 1410**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1519	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1 7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0 50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5 0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5 0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5 0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Description: **N-16**
Date Sampled: **06/21/2012 1410**
Date Received: **06/22/2012**

Laboratory ID: **NF22011-015**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1519	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
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%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NF22011-016**

Description: **N-17** Matrix: **Aqueous**

Date Sampled: **06/21/2012 1435**

Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1543	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0 80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1 8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1 7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1 7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Description: **N-17**
Date Sampled: **06/21/2012 1435**
Date Received: **06/22/2012**

Laboratory ID: **NF22011-016**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1543	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-017**
Description: **N-18**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 1510**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1606	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0 30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5 0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0 30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5 0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1 7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NF22011-017**
Description: **N-18**
Matrix: **Aqueous**
Date Sampled: **06/21/2012 1510**
Date Received: **06/22/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/03/2012 1606	AAC		88318

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		82	70-130
Toluene-d8		89	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
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%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ88318-001
Batch: 88318
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	07/03/2012 0918
Benzene	ND		1	5.0	0.20	ug/L	07/03/2012 0918
Bromodichloromethane	ND		1	5.0	1.7	ug/L	07/03/2012 0918
Bromoform	ND		1	5.0	0.40	ug/L	07/03/2012 0918
Bromomethane (Methyl bromide)	ND		1	5.0	0.80	ug/L	07/03/2012 0918
2-Butanone (MEK)	ND		1	10	1.8	ug/L	07/03/2012 0918
Carbon disulfide	ND		1	5.0	0.30	ug/L	07/03/2012 0918
Carbon tetrachloride	ND		1	5.0	0.40	ug/L	07/03/2012 0918
Chlorobenzene	ND		1	5.0	1.7	ug/L	07/03/2012 0918
Chloroethane	ND		1	5.0	0 50	ug/L	07/03/2012 0918
Chloroform	ND		1	5.0	1.7	ug/L	07/03/2012 0918
Chloromethane (Methyl chloride)	ND		1	5.0	0 30	ug/L	07/03/2012 0918
Cyclohexane	ND		1	5.0	0.98	ug/L	07/03/2012 0918
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.60	ug/L	07/03/2012 0918
Dibromochloromethane	ND		1	5.0	1.7	ug/L	07/03/2012 0918
1,2-Dibromoethane (EDB)	ND		1	5.0	0.30	ug/L	07/03/2012 0918
1,4-Dichlorobenzene	ND		1	5.0	1.7	ug/L	07/03/2012 0918
1,3-Dichlorobenzene	ND		1	5.0	1.7	ug/L	07/03/2012 0918
1,2-Dichlorobenzene	ND		1	5.0	1.7	ug/L	07/03/2012 0918
Dichlorodifluoromethane	ND		1	5.0	0.20	ug/L	07/03/2012 0918
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	07/03/2012 0918
1,1-Dichloroethane	ND		1	5.0	0.30	ug/L	07/03/2012 0918
trans-1,2-Dichloroethene	ND		1	5.0	0.40	ug/L	07/03/2012 0918
cis-1,2-Dichloroethene	ND		1	5.0	0.20	ug/L	07/03/2012 0918
1,1-Dichloroethene	ND		1	5.0	0.50	ug/L	07/03/2012 0918
1,2-Dichloropropane	ND		1	5.0	0 30	ug/L	07/03/2012 0918
trans-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	07/03/2012 0918
cis-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	07/03/2012 0918
Ethylbenzene	ND		1	5.0	1.7	ug/L	07/03/2012 0918
2-Hexanone	ND		1	10	1.0	ug/L	07/03/2012 0918
Isopropylbenzene	ND		1	5.0	1.0	ug/L	07/03/2012 0918
Methyl acetate	ND		1	5.0	0.72	ug/L	07/03/2012 0918
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	07/03/2012 0918
4-Methyl-2-pentanone	ND		1	10	0.80	ug/L	07/03/2012 0918
Methylcyclohexane	ND		1	5.0	0.95	ug/L	07/03/2012 0918
Methylene chloride	ND		1	5.0	1.7	ug/L	07/03/2012 0918
Styrene	ND		1	5.0	0.10	ug/L	07/03/2012 0918
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.40	ug/L	07/03/2012 0918
Tetrachloroethene	ND		1	5.0	0.40	ug/L	07/03/2012 0918
Toluene	ND		1	5.0	1.7	ug/L	07/03/2012 0918
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.30	ug/L	07/03/2012 0918
1,2,4-Trichlorobenzene	ND		1	5.0	1.7	ug/L	07/03/2012 0918
1,1,2-Trichloroethane	ND		1	5.0	0.30	ug/L	07/03/2012 0918
1,1,1-Trichloroethane	ND		1	5.0	0.20	ug/L	07/03/2012 0918

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ88318-001
Batch: 88318
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.30	ug/L	07/03/2012 0918
Trichlorofluoromethane	ND		1	5.0	0.30	ug/L	07/03/2012 0918
Vinyl chloride	ND		1	2.0	0.10	ug/L	07/03/2012 0918
Xylenes (total)	ND		1	5.0	1.7	ug/L	07/03/2012 0918

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ88318-002
Batch: 88318
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	120		1	125	70-130	07/03/2012 0744
Benzene	50	49		1	98	70-130	07/03/2012 0744
Bromodichloromethane	50	50		1	100	70-130	07/03/2012 0744
Bromoform	50	50		1	100	70-130	07/03/2012 0744
Bromomethane (Methyl bromide)	50	44		1	88	60-140	07/03/2012 0744
2-Butanone (MEK)	100	120		1	116	60-140	07/03/2012 0744
Carbon disulfide	50	46		1	93	60-140	07/03/2012 0744
Carbon tetrachloride	50	51		1	102	70-130	07/03/2012 0744
Chlorobenzene	50	48		1	97	70-130	07/03/2012 0744
Chloroethane	50	46		1	93	42-163	07/03/2012 0744
Chloroform	50	50		1	100	70-130	07/03/2012 0744
Chloromethane (Methyl chloride)	50	39		1	78	70-130	07/03/2012 0744
Cyclohexane	50	53		1	106	70-130	07/03/2012 0744
1,2-Dibromo-3-chloropropane (DBCP)	50	48		1	95	70-130	07/03/2012 0744
Dibromochloromethane	50	50		1	100	70-130	07/03/2012 0744
1,2-Dibromoethane (EDB)	50	50		1	101	70-130	07/03/2012 0744
1,4-Dichlorobenzene	50	49		1	97	70-130	07/03/2012 0744
1,3-Dichlorobenzene	50	50		1	99	70-130	07/03/2012 0744
1,2-Dichlorobenzene	50	48		1	96	70-130	07/03/2012 0744
Dichlorodifluoromethane	50	37		1	74	60-140	07/03/2012 0744
1,2-Dichloroethane	50	51		1	102	70-130	07/03/2012 0744
1,1-Dichloroethane	50	53		1	106	70-130	07/03/2012 0744
trans-1,2-Dichloroethene	50	56		1	112	70-130	07/03/2012 0744
cis-1,2-Dichloroethene	50	50		1	100	70-130	07/03/2012 0744
1,1-Dichloroethene	50	43		1	86	70-130	07/03/2012 0744
1,2-Dichloropropane	50	49		1	97	70-130	07/03/2012 0744
trans-1,3-Dichloropropene	50	52		1	104	70-130	07/03/2012 0744
cis-1,3-Dichloropropene	50	52		1	104	70-130	07/03/2012 0744
Ethylbenzene	50	49		1	98	70-130	07/03/2012 0744
2-Hexanone	100	110		1	107	60-140	07/03/2012 0744
Isopropylbenzene	50	52		1	104	70-130	07/03/2012 0744
Methyl acetate	50	56		1	112	70-130	07/03/2012 0744
Methyl tertiary butyl ether (MTBE)	50	55		1	109	70-130	07/03/2012 0744
4-Methyl-2-pentanone	100	110		1	107	60-140	07/03/2012 0744
Methylcyclohexane	50	52		1	103	70-130	07/03/2012 0744
Methylene chloride	50	46		1	92	70-130	07/03/2012 0744
Styrene	50	52		1	104	70-130	07/03/2012 0744
1,1,2,2-Tetrachloroethane	50	51		1	102	70-130	07/03/2012 0744
Tetrachloroethene	50	46		1	93	70-130	07/03/2012 0744
Toluene	50	49		1	98	70-130	07/03/2012 0744
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	82	N	1	164	70-130	07/03/2012 0744
1,2,4-Trichlorobenzene	50	43		1	85	70-130	07/03/2012 0744
1,1,2-Trichloroethane	50	49		1	98	70-130	07/03/2012 0744
1,1,1-Trichloroethane	50	52		1	104	70-130	07/03/2012 0744

PQL = Practical quantitation limit
P = The RPD between two GC columns exceeds 40%
N - Recovery is out of criteria
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
+ - 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: NQ88318-002
Batch: 88318
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	48		1	95	70-130	07/03/2012 0744
Trichlorofluoromethane	50	52		1	104	70-130	07/03/2012 0744
Vinyl chloride	50	40		1	80	70-130	07/03/2012 0744
Xylenes (total)	100	99		1	99	70-130	07/03/2012 0744

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ88318-003
Batch: 88318
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	94	+	1	94	28	70-130	20	07/03/2012 0807
Benzene	50	49		1	98	0.16	70-130	20	07/03/2012 0807
Bromodichloromethane	50	50		1	100	0.67	70-130	20	07/03/2012 0807
Bromoform	50	50		1	101	1.0	70-130	20	07/03/2012 0807
Bromomethane (Methyl bromide)	50	46		1	93	5.0	60-140	20	07/03/2012 0807
2-Butanone (MEK)	100	100		1	104	11	60-140	20	07/03/2012 0807
Carbon disulfide	50	47		1	93	0.41	60-140	20	07/03/2012 0807
Carbon tetrachloride	50	55		1	110	7.4	70-130	20	07/03/2012 0807
Chlorobenzene	50	49		1	98	0.99	70-130	20	07/03/2012 0807
Chloroethane	50	49		1	99	6.3	42-163	20	07/03/2012 0807
Chloroform	50	51		1	103	2.7	70-130	20	07/03/2012 0807
Chloromethane (Methyl chloride)	50	44		1	88	12	70-130	20	07/03/2012 0807
Cyclohexane	50	60		1	119	12	70-130	20	07/03/2012 0807
1,2-Dibromo-3-chloropropane (DBCP)	50	47		1	94	1.3	70-130	20	07/03/2012 0807
Dibromochloromethane	50	50		1	100	0.17	70-130	20	07/03/2012 0807
1,2-Dibromoethane (EDB)	50	50		1	99	1.2	70-130	20	07/03/2012 0807
1,4-Dichlorobenzene	50	49		1	98	0.73	70-130	20	07/03/2012 0807
1,3-Dichlorobenzene	50	50		1	99	0.42	70-130	20	07/03/2012 0807
1,2-Dichlorobenzene	50	48		1	96	0.44	70-130	20	07/03/2012 0807
Dichlorodifluoromethane	50	46		1	91	20	60-140	20	07/03/2012 0807
1,2-Dichloroethane	50	52		1	105	2 9	70-130	20	07/03/2012 0807
1,1-Dichloroethane	50	54		1	109	2.7	70-130	20	07/03/2012 0807
trans-1,2-Dichloroethene	50	56		1	112	0.29	70-130	20	07/03/2012 0807
cis-1,2-Dichloroethene	50	51		1	103	2.5	70-130	20	07/03/2012 0807
1,1-Dichloroethene	50	45		1	89	3.3	70-130	20	07/03/2012 0807
1,2-Dichloropropane	50	49		1	97	0.0041	70-130	20	07/03/2012 0807
trans-1,3-Dichloropropene	50	53		1	105	1.5	70-130	20	07/03/2012 0807
cis-1,3-Dichloropropene	50	52		1	103	0.27	70-130	20	07/03/2012 0807
Ethylbenzene	50	50		1	100	1.4	70-130	20	07/03/2012 0807
2-Hexanone	100	100		1	103	4.2	60-140	20	07/03/2012 0807
Isopropylbenzene	50	52		1	104	0.092	70-130	20	07/03/2012 0807
Methyl acetate	50	53		1	107	5 0	70-130	20	07/03/2012 0807
Methyl tertiary butyl ether (MTBE)	50	55		1	111	1.3	70-130	20	07/03/2012 0807
4-Methyl-2-pentanone	100	100		1	103	3.7	60-140	20	07/03/2012 0807
Methylcyclohexane	50	53		1	106	3.0	70-130	20	07/03/2012 0807
Methylene chloride	50	48		1	96	3.4	70-130	20	07/03/2012 0807
Styrene	50	52		1	104	0.40	70-130	20	07/03/2012 0807
1,1,2,2-Tetrachloroethane	50	51		1	101	1.0	70-130	20	07/03/2012 0807
Tetrachloroethene	50	47		1	94	1.0	70-130	20	07/03/2012 0807
Toluene	50	49		1	97	0.078	70-130	20	07/03/2012 0807
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	90	N	1	179	9.1	70-130	20	07/03/2012 0807
1,2,4-Trichlorobenzene	50	43		1	86	0.64	70-130	20	07/03/2012 0807
1,1,2-Trichloroethane	50	49		1	97	0.46	70-130	20	07/03/2012 0807
1,1,1-Trichloroethane	50	54		1	107	3.1	70-130	20	07/03/2012 0807

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ88318-003
Batch: 88318
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	48		1	96	0.48	70-130	20	07/03/2012 0807
Trichlorofluoromethane	50	45		1	90	14	70-130	20	07/03/2012 0807
Vinyl chloride	50	42		1	84	4.9	70-130	20	07/03/2012 0807
Xylenes (total)	100	100		1	101	1.7	70-130	20	07/03/2012 0807

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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 - Duplicate

Sample ID: NF22011-002DU
Batch: 88318
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Acetone	ND	ND		1	0.00	20	07/03/2012 1756
Benzene	ND	ND		1	0.00	20	07/03/2012 1756
Bromodichloromethane	ND	ND		1	0.00	20	07/03/2012 1756
Bromoform	ND	ND		1	0 00	20	07/03/2012 1756
Bromomethane (Methyl bromide)	ND	ND		1	0.00	20	07/03/2012 1756
2-Butanone (MEK)	ND	ND		1	0.00	20	07/03/2012 1756
Carbon disulfide	ND	ND		1	0.00	20	07/03/2012 1756
Carbon tetrachloride	ND	ND		1	0.00	20	07/03/2012 1756
Chlorobenzene	ND	ND		1	0.00	20	07/03/2012 1756
Chloroethane	ND	ND		1	0.00	20	07/03/2012 1756
Chloroform	ND	ND		1	0.00	20	07/03/2012 1756
Chloromethane (Methyl chloride)	ND	ND		1	0 00	20	07/03/2012 1756
Cyclohexane	ND	ND		1	0.00	20	07/03/2012 1756
1,2-Dibromo-3-chloropropane (DBCP)	ND	ND		1	0.00	20	07/03/2012 1756
Dibromochloromethane	ND	ND		1	0.00	20	07/03/2012 1756
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	07/03/2012 1756
1,2-Dichlorobenzene	ND	ND		1	0.00	20	07/03/2012 1756
1,3-Dichlorobenzene	ND	ND		1	0.00	20	07/03/2012 1756
1,4-Dichlorobenzene	ND	ND		1	0.00	20	07/03/2012 1756
Dichlorodifluoromethane	ND	ND		1	0.00	20	07/03/2012 1756
1,1-Dichloroethane	ND	ND		1	0.00	20	07/03/2012 1756
1,2-Dichloroethane	ND	ND		1	0.00	20	07/03/2012 1756
1,1-Dichloroethene	ND	ND		1	0.00	20	07/03/2012 1756
cis-1,2-Dichloroethene	ND	ND		1	0.00	20	07/03/2012 1756
trans-1,2-Dichloroethene	ND	ND		1	0.00	20	07/03/2012 1756
1,2-Dichloropropane	0.41	0.32	J	1	0.00	20	07/03/2012 1756
cis-1,3-Dichloropropene	ND	ND		1	0.00	20	07/03/2012 1756
trans-1,3-Dichloropropene	ND	ND		1	0.00	20	07/03/2012 1756
Ethylbenzene	ND	ND		1	0.00	20	07/03/2012 1756
2-Hexanone	ND	ND		1	0.00	20	07/03/2012 1756
Isopropylbenzene	ND	ND		1	0.00	20	07/03/2012 1756
Methyl acetate	ND	ND		1	0.00	20	07/03/2012 1756
Methyl tertiary butyl ether (MTBE)	ND	ND		1	0.00	20	07/03/2012 1756
4-Methyl-2-pentanone	ND	ND		1	0.00	20	07/03/2012 1756
Methylcyclohexane	ND	ND		1	0.00	20	07/03/2012 1756
Methylene chloride	ND	ND		1	0.00	20	07/03/2012 1756
Styrene	ND	ND		1	0.00	20	07/03/2012 1756
1,1,2,2-Tetrachloroethane	ND	ND		1	0.00	20	07/03/2012 1756
Tetrachloroethene	ND	ND		1	0.00	20	07/03/2012 1756
Toluene	ND	ND		1	0.00	20	07/03/2012 1756
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND		1	0.00	20	07/03/2012 1756
1,2,4-Trichlorobenzene	ND	ND		1	0.00	20	07/03/2012 1756
1,1,1-Trichloroethane	ND	ND		1	0.00	20	07/03/2012 1756
1,1,2-Trichloroethane	ND	ND		1	0.00	20	07/03/2012 1756

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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 - Duplicate

Sample ID: NF22011-002DU
Batch: 88318
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Trichloroethene	ND	ND		1	0.00	20	07/03/2012 1756
Trichlorofluoromethane	ND	ND		1	0.00	20	07/03/2012 1756
Vinyl chloride	ND	ND		1	0.00	20	07/03/2012 1756
Xylenes (total)	ND	ND		1	0.00	20	07/03/2012 1756

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		81	70-130
Toluene-d8		88	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NF22011-003MS
Batch: 88318
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	74		1	74	60-140	07/03/2012 1819
Benzene	ND	50	47		1	94	70-130	07/03/2012 1819
Bromodichloromethane	ND	50	46		1	93	71-143	07/03/2012 1819
Bromoform	ND	50	41		1	82	65-131	07/03/2012 1819
Bromomethane (Methyl bromide)	ND	50	46		1	92	36-168	07/03/2012 1819
2-Butanone (MEK)	ND	100	76		1	76	60-140	07/03/2012 1819
Carbon disulfide	ND	50	40		1	80	60-140	07/03/2012 1819
Carbon tetrachloride	ND	50	50		1	100	37-166	07/03/2012 1819
Chlorobenzene	ND	50	45		1	90	78-129	07/03/2012 1819
Chloroethane	ND	50	47		1	94	60-140	07/03/2012 1819
Chloroform	ND	50	46		1	92	63-123	07/03/2012 1819
Chloromethane (Methyl chloride)	ND	50	45		1	91	20-158	07/03/2012 1819
Cyclohexane	ND	50	53		1	106	70-130	07/03/2012 1819
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	36		1	73	70-130	07/03/2012 1819
Dibromochloromethane	ND	50	42		1	85	74-134	07/03/2012 1819
1,2-Dibromoethane (EDB)	ND	50	44		1	87	70-130	07/03/2012 1819
1,2-Dichlorobenzene	ND	50	44		1	88	70-130	07/03/2012 1819
1,3-Dichlorobenzene	ND	50	44		1	89	70-130	07/03/2012 1819
1,4-Dichlorobenzene	ND	50	44		1	87	70-130	07/03/2012 1819
Dichlorodifluoromethane	ND	50	42		1	85	10-158	07/03/2012 1819
1,1-Dichloroethane	ND	50	46		1	93	69-132	07/03/2012 1819
1,2-Dichloroethane	ND	50	46		1	91	70-130	07/03/2012 1819
1,1-Dichloroethene	ND	50	43		1	85	50-132	07/03/2012 1819
cis-1,2-Dichloroethene	ND	50	46		1	91	70-130	07/03/2012 1819
trans-1,2-Dichloroethene	ND	50	51		1	101	70-130	07/03/2012 1819
1,2-Dichloropropane	ND	50	46		1	92	71-126	07/03/2012 1819
cis-1,3-Dichloropropene	ND	50	45		1	90	69-130	07/03/2012 1819
trans-1,3-Dichloropropene	ND	50	44		1	88	73-131	07/03/2012 1819
Ethylbenzene	ND	50	47		1	93	70-130	07/03/2012 1819
2-Hexanone	ND	100	84		1	84	60-140	07/03/2012 1819
Isopropylbenzene	ND	50	46		1	93	70-130	07/03/2012 1819
Methyl acetate	ND	50	37		1	74	15-128	07/03/2012 1819
Methyl tertiary butyl ether (MTBE)	ND	50	45		1	89	70-130	07/03/2012 1819
4-Methyl-2-pentanone	ND	100	86		1	86	60-140	07/03/2012 1819
Methylcyclohexane	ND	50	50		1	100	70-130	07/03/2012 1819
Methylene chloride	ND	50	44		1	88	69-129	07/03/2012 1819
Styrene	ND	50	49		1	98	70-130	07/03/2012 1819
1,1,2,2-Tetrachloroethane	ND	50	42		1	83	60-155	07/03/2012 1819
Tetrachloroethene	ND	50	46		1	93	70-130	07/03/2012 1819
Toluene	ND	50	47		1	94	70-130	07/03/2012 1819
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	77	N	1	154	70-130	07/03/2012 1819
1,2,4-Trichlorobenzene	ND	50	38		1	77	70-130	07/03/2012 1819
1,1,1-Trichloroethane	ND	50	49		1	98	77-132	07/03/2012 1819
1,1,2-Trichloroethane	ND	50	42		1	84	77-132	07/03/2012 1819

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NF22011-003MS
Batch: 88318
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	ND	50	46		1	92	73-124	07/03/2012 1819
Trichlorofluoromethane	ND	50	51		1	102	60-140	07/03/2012 1819
Vinyl chloride	ND	50	44		1	88	29-159	07/03/2012 1819
Xylenes (total)	ND	100	94		1	94	70-130	07/03/2012 1819

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		90	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ88445-001
Batch: 88445
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	07/05/2012 0845
Benzene	ND		1	5.0	0.20	ug/L	07/05/2012 0845
Bromodichloromethane	ND		1	5.0	1.7	ug/L	07/05/2012 0845
Bromoform	ND		1	5.0	0.40	ug/L	07/05/2012 0845
Bromomethane (Methyl bromide)	ND		1	5.0	0.80	ug/L	07/05/2012 0845
2-Butanone (MEK)	ND		1	10	1.8	ug/L	07/05/2012 0845
Carbon disulfide	ND		1	5.0	0.30	ug/L	07/05/2012 0845
Carbon tetrachloride	ND		1	5.0	0.40	ug/L	07/05/2012 0845
Chlorobenzene	ND		1	5.0	1.7	ug/L	07/05/2012 0845
Chloroethane	ND		1	5.0	0.50	ug/L	07/05/2012 0845
Chloroform	ND		1	5.0	1.7	ug/L	07/05/2012 0845
Chloromethane (Methyl chloride)	ND		1	5.0	0.30	ug/L	07/05/2012 0845
Cyclohexane	ND		1	5.0	0.98	ug/L	07/05/2012 0845
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.60	ug/L	07/05/2012 0845
Dibromochloromethane	ND		1	5.0	1.7	ug/L	07/05/2012 0845
1,2-Dibromoethane (EDB)	ND		1	5.0	0.30	ug/L	07/05/2012 0845
1,4-Dichlorobenzene	ND		1	5.0	1.7	ug/L	07/05/2012 0845
1,3-Dichlorobenzene	ND		1	5.0	1.7	ug/L	07/05/2012 0845
1,2-Dichlorobenzene	ND		1	5.0	1.7	ug/L	07/05/2012 0845
Dichlorodifluoromethane	ND		1	5.0	0.20	ug/L	07/05/2012 0845
1,1-Dichloroethane	ND		1	5.0	0.30	ug/L	07/05/2012 0845
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	07/05/2012 0845
1,1-Dichloroethene	ND		1	5.0	0.50	ug/L	07/05/2012 0845
cis-1,2-Dichloroethene	ND		1	5 0	0.20	ug/L	07/05/2012 0845
trans-1,2-Dichloroethene	ND		1	5.0	0.40	ug/L	07/05/2012 0845
1,2-Dichloropropane	ND		1	5.0	0.30	ug/L	07/05/2012 0845
cis-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	07/05/2012 0845
trans-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	07/05/2012 0845
Ethylbenzene	ND		1	5.0	1.7	ug/L	07/05/2012 0845
2-Hexanone	ND		1	10	1.0	ug/L	07/05/2012 0845
Isopropylbenzene	ND		1	5.0	1 0	ug/L	07/05/2012 0845
Methyl acetate	ND		1	5.0	0 72	ug/L	07/05/2012 0845
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	07/05/2012 0845
4-Methyl-2-pentanone	ND		1	10	0.80	ug/L	07/05/2012 0845
Methylcyclohexane	ND		1	5.0	0.95	ug/L	07/05/2012 0845
Methylene chloride	ND		1	5.0	1.7	ug/L	07/05/2012 0845
Styrene	ND		1	5.0	0.10	ug/L	07/05/2012 0845
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.40	ug/L	07/05/2012 0845
Tetrachloroethene	ND		1	5.0	0.40	ug/L	07/05/2012 0845
Toluene	ND		1	5.0	1.7	ug/L	07/05/2012 0845
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.30	ug/L	07/05/2012 0845
1,2,4-Trichlorobenzene	ND		1	5.0	1.7	ug/L	07/05/2012 0845
1,1,1-Trichloroethane	ND		1	5.0	0.20	ug/L	07/05/2012 0845
1,1,2-Trichloroethane	ND		1	5.0	0.30	ug/L	07/05/2012 0845

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ88445-001
Batch: 88445
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.30	ug/L	07/05/2012 0845
Trichlorofluoromethane	ND		1	5.0	0.30	ug/L	07/05/2012 0845
Vinyl chloride	ND		1	2.0	0.10	ug/L	07/05/2012 0845
Xylenes (total)	ND		1	5.0	1.7	ug/L	07/05/2012 0845

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ88445-002
Batch: 88445
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	120		1	120	70-130	07/05/2012 0704
Benzene	50	49		1	99	70-130	07/05/2012 0704
Bromodichloromethane	50	51		1	102	70-130	07/05/2012 0704
Bromoform	50	51		1	102	70-130	07/05/2012 0704
Bromomethane (Methyl bromide)	50	62		1	124	60-140	07/05/2012 0704
2-Butanone (MEK)	100	110		1	111	60-140	07/05/2012 0704
Carbon disulfide	50	3100	N	1	6110	60-140	07/05/2012 0704
Carbon tetrachloride	50	54		1	109	70-130	07/05/2012 0704
Chlorobenzene	50	49		1	97	70-130	07/05/2012 0704
Chloroethane	50	57		1	115	42-163	07/05/2012 0704
Chloroform	50	50		1	100	70-130	07/05/2012 0704
Chloromethane (Methyl chloride)	50	62		1	123	70-130	07/05/2012 0704
Cyclohexane	50	51		1	103	70-130	07/05/2012 0704
1,2-Dibromo-3-chloropropane (DBCP)	50	55		1	109	70-130	07/05/2012 0704
Dibromochloromethane	50	54		1	108	70-130	07/05/2012 0704
1,2-Dibromoethane (EDB)	50	52		1	105	70-130	07/05/2012 0704
1,4-Dichlorobenzene	50	54		1	109	70-130	07/05/2012 0704
1,3-Dichlorobenzene	50	55		1	109	70-130	07/05/2012 0704
1,2-Dichlorobenzene	50	51		1	103	70-130	07/05/2012 0704
Dichlorodifluoromethane	50	59		1	118	60-140	07/05/2012 0704
1,1-Dichloroethane	50	51		1	101	70-130	07/05/2012 0704
1,2-Dichloroethane	50	47		1	94	70-130	07/05/2012 0704
1,1-Dichloroethene	50	54		1	108	70-130	07/05/2012 0704
cis-1,2-Dichloroethene	50	52		1	104	70-130	07/05/2012 0704
trans-1,2-Dichloroethene	50	53		1	106	70-130	07/05/2012 0704
1,2-Dichloropropane	50	50		1	100	70-130	07/05/2012 0704
cis-1,3-Dichloropropene	50	52		1	104	70-130	07/05/2012 0704
trans-1,3-Dichloropropene	50	55		1	109	70-130	07/05/2012 0704
Ethylbenzene	50	50		1	100	70-130	07/05/2012 0704
2-Hexanone	100	110		1	111	60-140	07/05/2012 0704
Isopropylbenzene	50	52		1	104	70-130	07/05/2012 0704
Methyl acetate	50	53		1	106	70-130	07/05/2012 0704
Methyl tertiary butyl ether (MTBE)	50	53		1	107	70-130	07/05/2012 0704
4-Methyl-2-pentanone	100	110		1	109	60-140	07/05/2012 0704
Methylcyclohexane	50	52		1	104	70-130	07/05/2012 0704
Methylene chloride	50	51		1	103	70-130	07/05/2012 0704
Styrene	50	53		1	105	70-130	07/05/2012 0704
1,1,2,2-Tetrachloroethane	50	55		1	110	70-130	07/05/2012 0704
Tetrachloroethene	50	48		1	97	70-130	07/05/2012 0704
Toluene	50	48		1	95	70-130	07/05/2012 0704
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	53		1	106	70-130	07/05/2012 0704
1,2,4-Trichlorobenzene	50	48		1	97	70-130	07/05/2012 0704
1,1,1-Trichloroethane	50	50		1	100	70-130	07/05/2012 0704
1,1,2-Trichloroethane	50	51		1	101	70-130	07/05/2012 0704

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ88445-002
Batch: 88445
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	49		1	97	70-130	07/05/2012 0704
Trichlorofluoromethane	50	54		1	108	70-130	07/05/2012 0704
Vinyl chloride	50	56		1	113	70-130	07/05/2012 0704
Xylenes (total)	100	100		1	102	70-130	07/05/2012 0704

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ88445-003
Batch: 88445
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	120		1	120	0.22	70-130	20	07/05/2012 0729
Benzene	50	47		1	93	5.7	70-130	20	07/05/2012 0729
Bromodichloromethane	50	48		1	96	5.9	70-130	20	07/05/2012 0729
Bromoform	50	50		1	100	1.9	70-130	20	07/05/2012 0729
Bromomethane (Methyl bromide)	50	56		1	112	10	60-140	20	07/05/2012 0729
2-Butanone (MEK)	100	110		1	111	0.074	60-140	20	07/05/2012 0729
Carbon disulfide	50	2800	N	1	5530	10	60-140	20	07/05/2012 0729
Carbon tetrachloride	50	49		1	98	11	70-130	20	07/05/2012 0729
Chlorobenzene	50	45		1	91	7 0	70-130	20	07/05/2012 0729
Chloroethane	50	55		1	110	4 4	42-163	20	07/05/2012 0729
Chloroform	50	47		1	93	7.7	70-130	20	07/05/2012 0729
Chloromethane (Methyl chloride)	50	54		1	109	12	70-130	20	07/05/2012 0729
Cyclohexane	50	47		1	94	8.6	70-130	20	07/05/2012 0729
1,2-Dibromo-3-chloropropane (DBCP)	50	53		1	105	3.4	70-130	20	07/05/2012 0729
Dibromochloromethane	50	51		1	102	5.7	70-130	20	07/05/2012 0729
1,2-Dibromoethane (EDB)	50	51		1	101	3.1	70-130	20	07/05/2012 0729
1,4-Dichlorobenzene	50	51		1	103	5.7	70-130	20	07/05/2012 0729
1,3-Dichlorobenzene	50	51		1	102	6.8	70-130	20	07/05/2012 0729
1,2-Dichlorobenzene	50	49		1	98	5.0	70-130	20	07/05/2012 0729
Dichlorodifluoromethane	50	53		1	106	11	60-140	20	07/05/2012 0729
1,1-Dichloroethane	50	47		1	93	7.8	70-130	20	07/05/2012 0729
1,2-Dichloroethane	50	45		1	91	2.9	70-130	20	07/05/2012 0729
1,1-Dichloroethene	50	49		1	98	9.7	70-130	20	07/05/2012 0729
cis-1,2-Dichloroethene	50	48		1	97	7.0	70-130	20	07/05/2012 0729
trans-1,2-Dichloroethene	50	48		1	97	8.7	70-130	20	07/05/2012 0729
1,2-Dichloropropane	50	47		1	94	6.5	70-130	20	07/05/2012 0729
cis-1,3-Dichloropropene	50	49		1	98	6.8	70-130	20	07/05/2012 0729
trans-1,3-Dichloropropene	50	51		1	103	5.9	70-130	20	07/05/2012 0729
Ethylbenzene	50	46		1	93	7.3	70-130	20	07/05/2012 0729
2-Hexanone	100	110		1	109	1.7	60-140	20	07/05/2012 0729
Isopropylbenzene	50	48		1	96	8.0	70-130	20	07/05/2012 0729
Methyl acetate	50	53		1	106	0.74	70-130	20	07/05/2012 0729
Methyl tertiary butyl ether (MTBE)	50	52		1	103	3.2	70-130	20	07/05/2012 0729
4-Methyl-2-pentanone	100	110		1	108	1.0	60-140	20	07/05/2012 0729
Methylcyclohexane	50	48		1	97	6.9	70-130	20	07/05/2012 0729
Methylene chloride	50	48		1	97	6.4	70-130	20	07/05/2012 0729
Styrene	50	49		1	99	6.3	70-130	20	07/05/2012 0729
1,1,2,2-Tetrachloroethane	50	53		1	107	2.8	70-130	20	07/05/2012 0729
Tetrachloroethene	50	44		1	88	9 5	70-130	20	07/05/2012 0729
Toluene	50	44		1	88	8.0	70-130	20	07/05/2012 0729
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	48		1	97	9.0	70-130	20	07/05/2012 0729
1,2,4-Trichlorobenzene	50	47		1	93	3.9	70-130	20	07/05/2012 0729
1,1,1-Trichloroethane	50	46		1	91	9.1	70-130	20	07/05/2012 0729
1,1,2-Trichloroethane	50	49		1	98	3 1	70-130	20	07/05/2012 0729

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ88445-003
Batch: 88445
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	45		1	91	7.0	70-130	20	07/05/2012 0729
Trichlorofluoromethane	50	49		1	98	10	70-130	20	07/05/2012 0729
Vinyl chloride	50	50		1	101	11	70-130	20	07/05/2012 0729
Xylenes (total)	100	96		1	96	6.6	70-130	20	07/05/2012 0729

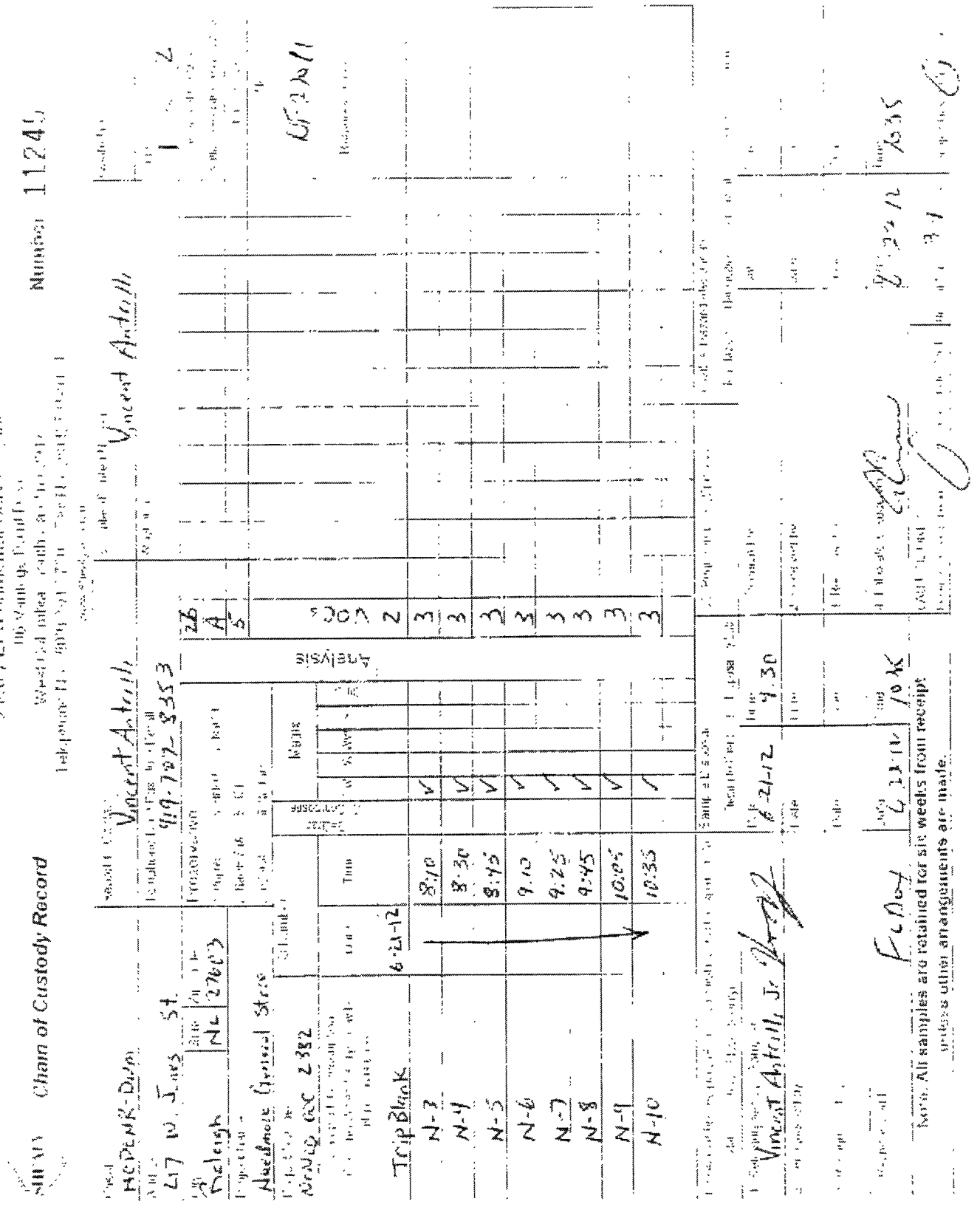
Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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 **Chain of Custody Record**



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

Number 11245

Client: HCDENR-DWM	Sampler Contact: Vincent Antrilli	Sample Collector: Vincent Antrilli	Sample Type:
Address: 217 W. Jones St.	Telephone Fax Email: 919-707-8353	Weight:	Page 1 of 2
City: Raleigh State: NC Zip Code: 27603	Preservative: 26 A 5		
Project Name: Needmore General Store			
Project Number: NrNCD GOC 2382			NF-27011

Sample Description	Date	Time	Sample Composite	Magnetic	Analysis	VOCs
Trip Blank	6-21-12					2
N-3		8:10		✓		3
N-4		8:30		✓		3
N-5		8:45		✓		3
N-6		9:10		✓		3
N-7		9:25		✓		3
N-8		9:45		✓		3
N-9		10:05		✓		3
N-10		10:35		✓		3

Sample Disposal: Dispose of Sample

1. Relinquished by: Vincent Antrilli, Jr. [signature]	Date: 6-21-12	Time: 4:30	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. Received by: FeDox	Date: 6-22-12	Time: 1035	4. Laboratory Received by: [signature]	Date: 6-22-12	Time: 1035

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

CAUTION: Received by: [signature] Received by: 3-1 Sample Disposal: [signature]

SHEALY **Chain of Custody Record**

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

Number 11246

Project Name: Needmore General Store

Project Number: NON CD 000 2832

Preservative: 24 / A / 5

Analysis: VOCs

Sample Description	Date	Time	Grab	Matrix: Dw	Matrix: Ww	Matrix: Ws	Matrix: Sw	Matrix: Other	Analysis	VOCs
N-11	6-21-12	11:05		✓						3
N-12		11:20		✓						3
N-13		11:45		✓						3
N-14		12:05		✓						3
N-15		1:55		✓						3
N-16		2:10		✓						3
N-17		2:35		✓						3
N-18		3:10		✓						3

Sample Disposal

Possible Hazard Identification

	Date	Time		Date	Time
1. Relinquished by: Vincent Antelli Jr.	6-21-12	4:30	1. Received by:		
2. Relinquished by:			2. Received by:		
3. Relinquished by:			3. Received by:		
4. Relinquished by: FEDex	6-21-12	1035	4. Received by:	6/22/12	1035

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

3.1

NF22011

Shealy Environmental Services, Inc.
Document Number: [illegible]
Revision Number: [illegible]

Page 1 of 1
Replaces Date: [illegible]
Effective Date: [illegible]

Sample Receipt Checklist (SRC)

Client: NCDENR Cooler Inspected by/date: [illegible] 6/22/12 Lot #: NF2281

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: 3.1 °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 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/BNA/pest/PCB/herb (<0.2 mg/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-SO4, HNO3, HCl, NaOH) with the SR # (number) ___

Sample(s) —001 (2) were received with bubbles >6 mm in diameter

Sample(s) ___ were received with TRC >0.2 mg/L for NH3/TKN cyanide/BNA/pest/PCB/herb.

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

Dexter R. Matthews, Director | Beverly Eaves Purdue, Governor | Dee Freeman, Secretary

MEMORANDUM

Date: June 22, 2012

To: File

From: Vince Antrilli
Raleigh Regional Office
Inactive Hazardous Sites Branch

Re: Needmore General Store – Sampling Trip Summary
NONCD 000 2882

- Larry Rose and I visited the site on June 21, 2012 to perform well sampling in the area. We sampled the addresses list below:
  6532, 6540, 6548, 6552, 6556, 6557, 6545, 6541, 6529, 6521, 6408, 6404, 6500, 6401, 6405, & 6409 Vintage Ridge Lane
  1828 Bass Lake Rd
- No other residents in the area responded to sample request letters, were not available by phone and were not home during the time that we were on site to sample.
- Many of the residences had water softeners installed to treat iron in the water.
- The samples collected were sent to Shealy Lab on June 21, 2012.

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

One NorthCarolina Naturally

Well Log Sheet

Site Name: Needmore

Site Id #:

Owner Name: Carroll

Well Address: 6532 Vintage Ridge Ln

Well ID #: N-3

Coordinates: _____ N

_____ E

Weather

Temp: _____

Wind: _____

Percip: _____

Date: 6-21-12

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	23.4	23.3			
pH	6.74	6.75			
S.C.	121.7	119.2			
Turbidity	2.1	2.0			

Time Sample Collected: 8:10

Water Condition (turbodity, color, odor): clear, odorless

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: _____

Well Log Sheet

Site Name: Needmore

Site Id #:

Owner Name:

Well Address: 6540 Vintage Ridge Ln

Well ID #: N-4

Coordinates: _____ N

_____ E

Weather

Temp:

Wind:

Percip:

Date: 6-21-12

Sample Team: Antrilli & Rose

Comments (well construction, etc.)

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	20.7	18.9			
pH	7.77	7.78			
S.C.	168.5	167.3			
Turbidity	3.7	4.3			

Time Sample Collected: 8:30

Water Condition (turbodity, color, odor):

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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:

Well Log Sheet

Site Name: Needmore

Site Id #:

Owner Name: Hathem

Well Address: 6548 Vintage Ridge Ln

Well ID #: N-5

Coordinates: _____ N

_____ E

Weather

Temp: _____

Wind: _____

Percip: _____

Date: 6-21-12

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	22.5	20.5	19.7		
pH	7.26	7.03	6.95		
S.C.	133.8	128.3	130.9		
Turbidity	4.4	3.3	3.4		

Time Sample Collected: 8:45

Water Condition (turbodity, color, odor): clear, odorless

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: _____

Well Log Sheet

Site Name: _____

Site Id #: _____

Owner Name: Silvers

Well Address: 6552 Vintage Ridge Lane

Well ID #: N-6

Coordinates: _____ N

_____ E

Weather

Temp: _____

Wind: _____

Percip: _____

Date: _____

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	18.8	18.5			
pH	6.43	6.35			
S.C.	105.4	105.8			
Turbidity	6.3	3.7			

Time Sample Collected: 9:10

Water Condition (turbodity, color, odor): _____

Lot Layout

Samples Collected:

____ VOCs (3 - 40ml vials)

____ 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: Sample from faucet @ wellhouse

Well Log Sheet

Site Name: Needmore

Site Id #:

Owner Name: Dunn

Well Address: 6556

Well ID #: N-7

Weather

Temp:

Wind:

Percip:

Date:

Coordinates: N

E

Sample Team: Antrilli & Rose

Comments (well construction, etc.)

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	21.5	20.5	19.7		
pH	6.45	6.38	6.27		
S.C.	86.6	86.9	87.3		
Turbidity	2.0	2.0	—		

Time Sample Collected: 9:25

Water Condition (turbodity, color, odor):

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet on right side of House

Well Log Sheet

Site Name: _____

Site Id #: _____

Owner Name: Canfield

Well Address: 6557 Vintage Ridge Ln

Well ID #: N-8

Coordinates: _____ N

_____ E

Weather

Temp: _____

Wind: _____

Percip: _____

Date: _____

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	19.9	18.8			
pH	7.87	7.75			
S.C.	167.9	164.7			
Turbidity	4.0	3.8			

Time Sample Collected: 9:45

Water Condition (turbodity, color, odor): _____

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet behind house

Well Log Sheet

Site Name: _____

Site Id #: _____

Owner Name: Alford

Well Address: 6545 Vintage Ridge Ln

Well ID #: N-9

Coordinates: _____ N

_____ E

Weather

Temp: _____

Wind: _____

Percip: _____

Date: 6-21-12

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	21.6	19.6	18.9		
pH	7.47	7.35	7.38		
S.C.	147.1	147.1	146.9		
Turbidity	2.1	3.4	—		

Time Sample Collected: 10:05

Water Condition (turbodity, color, odor): _____

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet back of house

Well Log Sheet

Site Name: _____

Site Id #: _____

Owner Name: Rhinehalt

Well Address: 6541 Vintage Ridge Ln

Well ID #: N-10

Coordinates: _____ N

_____ E

Weather

Temp: _____

Wind: _____

Percip: _____

Date: 6-21-12

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	25.1	19.9	19.5	19.2	
pH	6.40	6.15	6.65	6.77	
S.C.	95.9	79.5	119.8	125.6	
Turbidity	10.1	10.1	5.8	—	

Time Sample Collected: 10:35

Water Condition (turbodity, color, odor): _____

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet on left side of house

Crystal-Right CR-100 Silica Crystals

Well Log Sheet

Site Name: _____

Site Id #: _____

Owner Name: Schoeneman

Well Address: 6529 Vintage Ridge Ln

Well ID #: N-11

Weather

Temp: _____

Wind: _____

Percip: _____

Date: 6-21-12

Coordinates: _____ N

_____ E

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	23.6	20.8			
pH	7.10	7.01			
S.C.	138.0	137.4			
Turbidity	3.9	4.5			

Time Sample Collected: 11:05

Water Condition (turbodity, color, odor): C

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet in front of house

Well Log Sheet

Site Name: _____

Site Id #: _____

Owner Name: Taylor

Well Address: 6524 Vintage Ridge Ln

Well ID #: Nest

Weather

Temp: _____

Wind: _____

Percip: _____

Date: 6-21-12

Coordinates: _____ N

_____ E

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	20.9	18.9			
pH	6.50	6.53			
S.C.	105.7	105.6			
Turbidity	22.0	10.6			

Time Sample Collected: 11:20

Water Condition (turbodity, color, odor): _____

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet on right side of house

Well Log Sheet

Site Name: _____

Site Id #: _____

Owner Name: _____

Well Address: 6405 Vintage Ridge Ln

Well ID #: N-13

Coordinates: _____ N

_____ E

Weather

Temp: _____

Wind: _____

Percip: _____

Date: _____

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	20.8	20.2			
pH	6.66	6.63			
S.C.	117.5	116.6			
Turbidity	3.8	4.0			

Time Sample Collected: 11:45

Water Condition (turbodity, color, odor): _____

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet on right front of house

Well Log Sheet

Site Name: _____

Site Id #: _____

Owner Name: Ryan

Well Address: 6409 Vintage Ridge Ln

Well ID #: N-14

Coordinates: _____ N

_____ E

Weather

Temp: _____

Wind: _____

Percip: _____

Date: _____

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	23.1	21.9			
pH	6.97	6.89			
S.C.	131.8	130.0			
Turbidity	5.5	6.0			

Time Sample Collected: 12:05

Water Condition (turbodity, color, odor): _____

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet on left side of house

Well Log Sheet

Site Name: _____

Site Id #: _____

Owner Name: Nottingham

Well Address: 6401 Vintage Ridge Ln

Well ID #: N-15

Coordinates: _____ N

_____ E

Weather

Temp: _____

Wind: _____

Percip: _____

Date: _____

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	23.3	22,9			
pH	6.55	6,54			
S.C.	110	110.1			
Turbidity	3,6	2.5			

Time Sample Collected: 1:55

Water Condition (turbodity, color, odor): _____

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet on right side of house

Well Log Sheet

Site Name: _____

Site Id #: _____

Owner Name: Jourdan

Well Address: 6400 Vintage Ridge Ln

Well ID #: N-16

Coordinates: _____ N

_____ E

Weather

Temp: _____

Wind: _____

Percip: _____

Date: _____

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	23.2	21.4	20.1		
pH	7.31	7.04	6.95		
S.C.	137.3	128.3	126.8		
Turbidity	2.8	3.4	3.2		

Time Sample Collected: 2:10

Water Condition (turbodity, color, odor): _____

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet on right side of house

Well Log Sheet

Site Name: _____

Site Id #: _____

Owner Name: Loftis

Well Address: 6408 Vintage Ridge Ln

Well ID #: N-17

Coordinates: _____ N

_____ E

Weather

Temp: _____

Wind: _____

Percip: _____

Date: _____

Sample Team: Antrilli & Rose

Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	22.6	21.2			
pH	7.89	7.93			
S.C.	132.4	124.8			
Turbidity	4.2	3.5			

Time Sample Collected: 2:35

Water Condition (turbodity, color, odor): _____

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet on right side of house

Well Log Sheet

Site Name: _____

Site Id #: _____

Owner Name: Sawyer

Well Address: 1828 Bass Lake Rd

Well ID #: N-18

Coordinates: _____ N

_____ E

Weather

Temp: _____

Wind: _____

Percip: _____

Date: _____

Sample Team: Antrilli & Rose

Comments (well construction, etc.) 2nd well. Original well inventory

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	21.4	20.2			
pH	6.86	6.89			
S.C.	108.9	108.5			
Turbidity	3.0	3.6			

Time Sample Collected: 3:10

Water Condition (turbodity, color, odor): _____

Lot Layout

Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet on right side of house

SHEALY

Chain of Custody Record

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

Number 11245

Client: NCDENR-DWM	Report to Contact: Vincent Antrilli	Sampler (Printed Name): Vincent Antrilli	Quote No.
Address: 217 W. Jones St.	Telephone No. / Fax No. / Email: 919-707-8353	Waybill No.	Page ___ of ___
City: Raleigh / State: NC / Zip Code: 27603	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio. 7. NaOH		
Project Name: Needmore General Store			
Project Number: NONCD 000 2882	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	Number of Containers	Bottle (See Instructions on back)	Preservative	Lot No.	Remarks / Cooler ID
										26	A	5		
Trip Blank	6-21-12									2				
N-3		8:10		✓						3				
N-4		8:30		✓						3				
N-5		8:45		✓						3				
N-6		9:10		✓						3				
N-7		9:25		✓						3				
N-8		9:45		✓						3				
N-9		10:05		✓						3				
N-10		10:35		✓						3				

Turn Around Time Required (Prior lab approval required for expedited TAT)
☐ Standard ☐ Rush (Please Specify)

Sample Disposal
☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification
☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison ☐Unknown

	Date	Time		Date	Time
1. Relinquished by / Sampler: Vincent Antrilli Jr	6-21-12	4:30	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory Received by		

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. _____ °C
Temp. Blank ☐ Y / ☐ N

Instructions

Please complete as many fields possible. Contact your lab Project Manager with any questions reagrding Chain of Custody completion.

Bottle Types (Insert letter code for bottle type submitted)

A - 40ml Vial Clear

B - 40ml Vial Amber

C - 125ml Plastic

D - 250ml Plastic

E - 250ml Amber

F - 500ml Plastic

G - 500ml Amber

H - 1L Plastic

I - 1L Amber

J - 1L Widemouth

K - 2L Plastic

L - 2 oz. jar

M - 4 oz. jar

N - 9 oz jar

O - 100ml sterile

SHEALY

Chain of Custody Record

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

Number 11246

Client	Report to Contact	Sampler (Printed Name)	Quote No.
Address	Telephone No. / Fax No. / Email	Waybill No.	Page 2 of 2
City / State / Zip Code	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio. 7. NaOH		
Project Name: Needmore General Store			
Project Number: NoNCD 0002882	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	Number of Containers	Bottle (See Instructions on back)	Preservative	Lot No.	Remarks / Cooler ID
										24	A	5		
N-11	6-21-12	11:05		✓						3				
N-12		11:20		✓						3				
N-13		11:45		✓						3				
N-14		12:05		✓						3				
N-15		1:55		✓						3				
N-16		2:10		✓						3				
N-17		2:35		✓						3				
N-18		3:10		✓						3				

Turn Around Time Required (Prior lab approval required for expedited TAT)
☐ Standard ☐ Rush (Please Specify)

Sample Disposal
☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification
☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison ☐Unknown

1. Relinquished by / Sampler: Vincent Astrilli Jr	Date: 6-21-12	Time: 4:30	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	Date	Time	4. Laboratory Received by	Date	Time

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. _____ °C
Temp. Blank ☐ Y / ☐ N

Instructions

Please complete as many fields possible. Contact your lab Project Manager with any questions reagrding Chain of Custody completion.

Bottle Types (Insert letter code for bottle type submitted)

A - 40ml Vial Clear

B - 40ml Vial Amber

C - 125ml Plastic

D - 250ml Plastic

E - 250ml Amber

F - 500ml Plastic

G - 500ml Amber

H - 1L Plastic

I - 1L Amber

J - 1L Widemouth

K - 2L Plastic

L - 2 oz. jar

M - 4 oz. jar

N - 9 oz jar

O - 100ml sterile

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

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Director

Dee Freeman
Secretary

July 13, 2012

Fleming and Carolyn Wester
6540 Vintage Ridge Lane
Fuquay Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6540 Vintage Ridge Lane – Well ID # N-4
Fuquay Varina, NC 27526

Dear Mr. and Mrs. Wester:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on June 21, 2012. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8353.

Sincerely,

Sue Murphy for

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

Enclosure

CC: Wake County Health Department

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

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Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

July 13, 2012

Steven and Betty Silvers
6552 Vintage Ridge Lane
Fuquay Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6552 Vintage Ridge Lane – Well ID # N-6
Fuquay Varina, NC 27526

Dear Mr. and Mrs. Silvers:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on June 21, 2012. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8353.

Sincerely,

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

Enclosure

CC: Wake County Health Department

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

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Director

Dee Freeman
Secretary

July 13, 2012

Wesley and Melinda Dunn
6556 Vintage Ridge Lane
Fuquay Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6556 Vintage Ridge Lane – Well ID # N-7
Fuquay Varina, NC 27526

Dear Mr. and Mrs. Dunn:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on June 21, 2012. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8353.

Sincerely,

Sue Murphy for

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

Enclosure

CC: Wake County Health Department

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

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Secretary

July 13, 2012

James and Tina Canfield
6557 Vintage Ridge Lane
Fuquay Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6557 Vintage Ridge Lane – Well ID # N-8
Fuquay Varina, NC 27526

Dear Mr. and Mrs. Canfield:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on June 21, 2012. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8353.

Sincerely,

Sue Murphy for

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

Enclosure

CC: Wake County Health Department

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

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Dee Freeman
Secretary

July 13, 2012

Michael and Suzanne Alford
6545 Vintage Ridge Lane
Fuquay Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6545 Vintage Ridge Lane – Well ID # N-9
Fuquay Varina, NC 27526

Dear Mr. and Mrs. Alford:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on June 21, 2012. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8353.

Sincerely,

Sue Murphy

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

Enclosure

CC: Wake County Health Department

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

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Director

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July 13, 2012

Bradley and Charlenne Rhinehalt
6541 Vintage Ridge Lane
Fuquay Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6541 Vintage Ridge Lane – Well ID # N-10
Fuquay Varina, NC 27526

Dear Mr. and Mrs. Rhinehalt:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on June 21, 2012. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8353.

Sincerely,

Sue Murphy for

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

Enclosure

CC: Wake County Health Department

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

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Director

Dee Freeman
Secretary

July 13, 2012

William Barbour
6405 Vintage Ridge Lane
Fuquay Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6405 Vintage Ridge Lane – Well ID # N-13
Fuquay Varina, NC 27526

Dear Mr. Barbour:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on June 21, 2012. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8353.

Sincerely,

Sue Murphy for

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

Enclosure

CC: Wake County Health Department

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

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Dexter R. Matthews
Director

Dee Freeman
Secretary

July 13, 2012

Thomas and Tari Ryan
6409 Vintage Ridge Lane
Fuquay Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6409 Vintage Ridge Lane – Well ID # N-14
Fuquay Varina, NC 27526

Dear Mr. and Mrs. Ryan:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on June 21, 2012. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8353.

Sincerely,

Sue Murphy for

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

Enclosure

CC: Wake County Health Department

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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

July 13, 2012

Jeffrey and Virginia Nottingham
6401 Vintage Ridge Lane
Fuquay Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6401 Vintage Ridge Lane – Well ID # N-15
Fuquay Varina, NC 27526

Dear Mr. and Mrs. Nottingham:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on June 21, 2012. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8353.

Sincerely,

Sue Murphy for

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

Enclosure

CC: Wake County Health Department

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

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Secretary

July 13, 2012

Scott and Deborah Jourdan
6400 Vintage Ridge Lane
Fuquay Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6400 Vintage Ridge Lane – Well ID # N-16
Fuquay Varina, NC 27526

Dear Mr. and Mrs. Jourdan:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on June 21, 2012. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8353.

Sincerely,

Sue Murphy for

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

Enclosure

CC: Wake County Health Department

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

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Director

Dee Freeman
Secretary

July 13, 2012

Sean and Mandi Loftis
6408 Vintage Ridge Lane
Fuquay Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6408 Vintage Ridge Lane – Well ID # N-17
Fuquay Varina, NC 27526

Dear Mr. and Mrs. Loftis:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on June 21, 2012. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8353.

Sincerely,

Sue Murphy for

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

Enclosure

CC: Wake County Health Department

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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

July 13, 2012

Patsy Sawyer and Melissa Williams
1828 Bass Lake Road
Fuquay Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
1828 Bass Lake Road – Well ID # N-18
Fuquay Varina, NC 27526

Dear Ms. Sawyer and Ms. Williams:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on June 21, 2012. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8353.

Sincerely,

Sue Murphy for

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

Enclosure

CC: Wake County Health Department

Needmore General Store, Wake County Addresses (NONCD0002882)

Well Address	Parcel ID#	Owner / Mailing Address	Phone # / email	Sampling Permission
6528 Vintage Ridge Ln	668524109	Douglas & Kimberly McKinney 6528 Vintage Ridge Ln Fuquay Varina, NC 27526		
6532 Vintage Ridge Ln	668524065	John & Judith Carroll 6532 Vintage Ridge Ln Fuquay Varina, NC 27526		
6540 Vintage Ridge Ln	668514971	Fleming & Carolyn Webster 6540 Vintage Ridge Ln Fuquay Varina, NC 27526		
6544 Vintage Ridge Ln	668515830	Maureen Tomshack 6544 Vintage Ridge Ln Fuquay Varina, NC 27526		
6548 Vintage Ridge Ln	668514666	Nyle & Theresa Hothem 6548 Vintage Ridge Ln Fuquay Varina, NC 27526		
6552 Vintage Ridge Ln	668514427	Steven & Betty Silvers 6552 Vintage Ridge Ln Fuquay Varina, NC 27526		
6556 Vintage Ridge Ln	668516424	Wesley & Melinda Dunn 6556 Vintage Ridge Ln Fuquay Varina, NC 27526		
6557 Vintage Ridge Ln	668517446	James & Tina Canfield 6557 Vintage Ridge Ln Fuquay Varina, NC 27526		
6553 Vintage Ridge Ln	668519439	Curtis Phelan PO Box 66 Holly Springs, NC 27540		
6549 Vintage Ridge Ln	668518667	Franklin & Teresa Jackson 6549 Vintage Ridge Ln Fuquay Varina, NC 27526		
6545 Vintage Ridge Ln	668518841	Michael & Suzanne Alford 6545 Vintage Rige Ln Fuquay Varina, NC 27526		
6541 Vintage Ridge Ln	668518936	Bradley & Charlenne Rhinehalt 6541 Vintage Ridge Ln Fuquay Varina, NC 27526		
6537 Vintage Ridge Ln	668527056	Jeffrey & Sarah Morrison 6537 Vintage Ridge Ln Fuquay Varina, NC 27526		
6533 Vintage Ridge Ln	668527117	Thomas & Lois Callaghan 6533 Vintage Ridge Ln Fuquay Varina, NC 27526		

Well Address	Parcel ID#	Owner / Mailing Address	Phone # / email
6529 Vintage Ridge Ln	668526342	Carl & Eueletta Schoeneman 6529 Vintage Ridge Ln Fuquay Varina, NC 27526	
6521 Vintage Ridge Ln	668525498	Altina Taylor 6521 Vintage Ridge Ln Fuquay Varina, NC 27526	
6505 Vintage Ridge Ln	668526983	Marc & Joan Jarrad 6505 Vintage Ridge Ln Fuquay Varina, NC 27526	
6501 Vintage Ridge Ln	668538011	Olga & Sergey Zhitova 6501 Vintage Ridge Ln Fuquay Varina, NC 27526	
6500 Vintage Ridge Ln	688536128	Stephen & Jodie Sgroi 6500 Vintage Ridge Ln Fuquay Varina, NC 27526	
6408 Vintage Ridge Ln	668537358	Sean & Mandi Loftis 6408 Vintage Ridge Ln Fuquay Varina, NC 27526	
6404 Vintage Ridge Ln	668539447	Charles Carter 6404 Vintage Ridge Ln Fuquay Varina, NC 27526	
6400 Vintage Ridge Ln	668532458	Scott & Deborah Culbertson 6400 Vintate Ridge Ln Fuquay Varina, NC 27526	
6401 Vintage Ridge Ln	668631395	Jeffery & Virgina Nottingham 6401 Vintage Ridge Ln Fuquay Varina, NC 27526	
6405 Vintage Ridge Ln	668630274	William Barbour 6405 Vintage Ridge Ln Fuquay Varina, NC 27526	
6409 Vintage Ridge Ln	668539151	Thomas & Tari Ryan 6409 Vintage Ridge Ln Fuquay Varina, NC 27526	
1828 Bass Lake Rd	668435433	Patsy Sawyer & Melissa Williams 1828 Bass Lake Rd Fuquay Varina, NC 27526	
1833 Bass Lake Rd	668433677	Maurice Weaver 8029 Kensington Dr Fuquay Varina, NC 27526	
1808 Bass Lake Rd	668430414	James Bullock 1808 Bass Lake Rd Fuquay Varina, NC 27526	

No significant constituents of concern detected.

BTEX or MTBE detected.

1,2-Dichloroethane detected.

1,2-Dichloropropane detected.

----- = Water Line

= Subject Property

1500' RADIUS

1000' RADIUS

HARVEST-GLEN CT.

PLANTERS-GLEN CT.

HILLTOP NEEDMORE ROAD

BASS LAKE ROAD

SUNSET LAKE ROAD

VINTAGE RIDGE LANE

NEEDMORE RURITAN CLUB

RURITAN NATIONAL HOMEMAKERS CLUB

SITE

SEASONAL POND

POND

POND

INTERMITTENT STREAMS

INTERMITTENT STREAM

9876 8863 1705 9582 1573 7440 0372 2368 3261 9729 2002 3028 4012 8962 4844 3677 5684 9729 2458 9447 7358 1395 0274 5433 2400 3473 3226 4284 6128 9155 3562 0276 9079C 9079 3928 8011 6983 875 8520 3636 0254

LEGEND:

Ⓟ POTABLE WELL

5433 PARCEL ID NUMBER

0 100 300 600

SCALE IN FEET

NOTES:
1. WELLS PW-0276, PW-4170, PW-9079, AND PW-9079C ARE NO LONGER IN USE.

TITLE **FIGURE 3**
POTABLE WELL LOCATION MAP
NEEDMORE GENERAL STORE
1921 BASS LAKE ROAD
FUQUAY-VARINA, NORTH CAROLINA

CAD FILE 125980.dwg | TYPE CODE | PREP. BY AW | REV. BY GO

SCALE 1"=300' | DATE 12-22-2010 | PROJECT NO. 45.03451.0015

VATC ASSOCIATES INC.
Raleigh, North Carolina 27604 (919) 871-0999 FAX (919) 871-0335

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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

June 4, 2012

Donald & Vicky Jones
6516 Vintage Ridge Ln
Fuquay-Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6516 Vintage Ridge Ln – Well ID #N-2
Fuquay-Varina, NC 27526

Dear Mr. or Ms. Jones:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on May 3, 2012. 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. We will continue to provide bottled water until we can resolve a permanent solution.

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.
Environmental Specialist
Inactive Hazardous Sites Branch
Superfund Section

Enclosure

CC: Wake County Health Department

June 1, 2012

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
Needmore General Store Site
6516 Vintage Ridge Ln.
Fuquay Varina, Wake County
NONCD 0002882

A water sample was collected from the subject well on May 03, 2012. The concentration of 1,2-dichloropropane exceeded 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 well should not be used for drinking or cooking, the water from this well can be used for all other uses described above.** The table below compares the detected contaminant concentrations with the applicable standards:

Well ID	Compound	Concentration (ug/L)	US EPA MCL (ug/L)	NC 2L (ug/L)	Health-based Concentration (ug/l)
NE04005-003	1,2-Dichloropropane	6	5	**	**
	1,1-Dichloroethane	0.90 J	5	**	**

Shaded area indicates exceedance
J- Estimated Concentration
** Not Applicable
ug/L= Micrograms of contaminant per liter of water.

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Description: **N-2**
Date Sampled: **05/03/2012 0945**
Date Received: **05/04/2012**

Laboratory ID: **NE04005-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2012 2322	DD		84858

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**0.90**	**J**	**5.0**	**0.30**	**ug/L**	**1**
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	**78-87-5**	**8260B**	**6.0**		**5.0**	**0.30**	**ug/L**	**1**
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NE04005-003**
Description: **N-2**
Matrix: **Aqueous**
Date Sampled: **05/03/2012 0945**
Date Received: **05/04/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2012 2322	DD		84858

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
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%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

June 4, 2012

William Sturtevant
6520 Vintage Ridge Ln
Fuquay-Varina, NC 27526

RE: Water Supply Well Sampling Results – Needmore General Store (NONCD0002882)
6520 Vintage Ridge Ln – Well ID #N-1
Fuquay-Varina, NC 27526

Dear Mr. or Ms. Sturtevant:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on May 3, 2012. 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.
Environmental Specialist
Inactive Hazardous Sites Branch
Superfund Section

Enclosure

CC: Wake County Health Department

June 1, 2012

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
Needmore General Store Site
6520 Vintage Ridge Ln.
Fuquay Varina, Wake County
NONCD 0002882

A water sample was collected from the subject well on May 03, 2012. The concentration of 1,2-dichloropropane detected did not exceed 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 well can be used for drinking, cooking and all other purposes described above.** The table below compares the detected contaminant concentrations with the applicable standards:

Well ID	Compound	Concentration (ug/L)	US EPA MCL (ug/L)	NC 2L (ug/L)	Health-based Concentration (ug/l)
NE04005-002	1,2-Dichloropropane	1.1 J	5	**	**

J- Estimated Concentration
** Not Applicable
ug/L= Micrograms of contaminant per liter of water.

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Description: **N-1**
Date Sampled: **05/03/2012 0900**
Date Received: **05/04/2012**

Laboratory ID: **NE04005-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2012 2259	DD		84858

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	**78-87-5**	**8260B**	**1.1**	**J**	**5.0**	**0.30**	**ug/L**	**1**
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NE04005-002**

Description: **N-1** Matrix: **Aqueous**

Date Sampled: **05/03/2012 0900**

Date Received: **05/04/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2012 2259	DD		84858

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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%
* = Reportable result (only when report all runs)

H = Out of holding time
N = Recovery is out of criteria

June 1, 2012

MEMORANDUM

TO: Hanna Assefa, Industrial Hygienist
Superfund Section, IHSB

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

RE: Health Risk Evaluation Request
Needmore General Store Site
Fuquay-Varina, Wake County
NONCD 0002882

Please find attached a copy of the laboratory analytical results for one water supply well sample. This sample was collected from a water supply well located at 6520 Vintage Ridge Ln. (N-1) This sample was collected on May 3, 2012. 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)
NE04005-002	1,2 Dichloropropane	1.1	5	0.6

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

Attachment

June 1, 2012

MEMORANDUM

TO: Hanna Assefa, Industrial Hygienist
Superfund Section, IHSB

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

RE: Health Risk Evaluation Request
Needmore General Store Site
Fuquay-Varina, Wake County
NONCD 0002882

Please find attached a copy of the laboratory analytical results for one water supply well sample. This sample was collected from a water supply well located at 6516 Vintage Ridge Ln. (N-2) This sample was collected on May 3, 2012. 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)
NE04005-003	1,2 Dichloropropane	6.0	5	0.6
	1,2 Dichloroethane	0.90	5	0.4

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: **Heedmore General Store**

Project Number: **NONCD0002882**

Lot Number: **NE04005**

Date Completed: **05/17/2012**

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.

Case Narrative
NCDENR - DWM - DSCA
Lot Number: NE04005

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: NE04005

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Trip Blank	Aqueous	05/03/2012	05/04/2012
002	N-1	Aqueous	05/03/2012 0900	05/04/2012
003	N-2	Aqueous	05/03/2012 0945	05/04/2012

(3 samples)

Executive Summary
NCDENR - DWM - DSCA
Lot Number: NE04005

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	N-1	Aqueous	1,2-Dichloropropane	8260B	1.1	J	ug/L	7
003	N-2	Aqueous	1,2-Dichloroethane	8260B	0.90	J	ug/L	9
003	N-2	Aqueous	1,2-Dichloropropane	8260B	6.0		ug/L	9

(3 detections)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Description: **Trip Blank**
Date Sampled: **05/03/2012**
Date Received: **05/04/2012**

Laboratory ID: **NE04005-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/16/2012 0400	DD		84858

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Description: **Trip Blank**
Date Sampled: **05/03/2012**
Date Received: **05/04/2012**

Laboratory ID: **NE04005-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/16/2012 0400	DD		84858

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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%
* = Reportable result (only when report all runs)

H = Out of holding time
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **NE04005-002**

Description: **N-1** Matrix: **Aqueous**

Date Sampled: **05/03/2012 0900**

Date Received: **05/04/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2012 2259	DD		84858

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5 0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	**78-87-5**	**8260B**	**1.1**	**J**	**5.0**	**0.30**	**ug/L**	**1**
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0 30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1 7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NE04005-002**
Description: **N-1**
Matrix: **Aqueous**
Date Sampled: **05/03/2012 0900**
Date Received: **05/04/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2012 2259	DD		84858

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0 10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NE04005-003**
Description: **N-2**
Matrix: **Aqueous**
Date Sampled: **05/03/2012 0945**
Date Received: **05/04/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2012 2322	DD		84858

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**0.90**	**J**	**5.0**	**0.30**	**ug/L**	**1**
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	**78-87-5**	**8260B**	**6.0**		**5.0**	**0.30**	**ug/L**	**1**
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **NE04005-003**
Description: **N-2**
Matrix: **Aqueous**
Date Sampled: **05/03/2012 0945**
Date Received: **05/04/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/15/2012 2322	DD		84858

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		101	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ84858-001
Batch: 84858
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	05/15/2012 2150
Benzene	ND		1	5.0	0.20	ug/L	05/15/2012 2150
Bromodichloromethane	ND		1	5.0	1.7	ug/L	05/15/2012 2150
Bromoform	ND		1	5.0	0.40	ug/L	05/15/2012 2150
Bromomethane (Methyl bromide)	ND		1	5.0	0.80	ug/L	05/15/2012 2150
2-Butanone (MEK)	ND		1	10	1.8	ug/L	05/15/2012 2150
Carbon disulfide	ND		1	5.0	0.30	ug/L	05/15/2012 2150
Carbon tetrachloride	ND		1	5.0	0.40	ug/L	05/15/2012 2150
Chlorobenzene	ND		1	5.0	1.7	ug/L	05/15/2012 2150
Chloroethane	ND		1	5.0	0.50	ug/L	05/15/2012 2150
Chloroform	ND		1	5.0	1.7	ug/L	05/15/2012 2150
Chloromethane (Methyl chloride)	ND		1	5.0	0.30	ug/L	05/15/2012 2150
Cyclohexane	ND		1	5.0	0.98	ug/L	05/15/2012 2150
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.60	ug/L	05/15/2012 2150
Dibromochloromethane	ND		1	5.0	1.7	ug/L	05/15/2012 2150
1,2-Dibromoethane (EDB)	ND		1	5.0	0.30	ug/L	05/15/2012 2150
1,4-Dichlorobenzene	ND		1	5.0	1.7	ug/L	05/15/2012 2150
1,3-Dichlorobenzene	ND		1	5.0	1.7	ug/L	05/15/2012 2150
1,2-Dichlorobenzene	ND		1	5.0	1.7	ug/L	05/15/2012 2150
Dichlorodifluoromethane	ND		1	5.0	0.20	ug/L	05/15/2012 2150
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	05/15/2012 2150
1,1-Dichloroethane	ND		1	5.0	0.30	ug/L	05/15/2012 2150
trans-1,2-Dichloroethene	ND		1	5.0	0.40	ug/L	05/15/2012 2150
1,1-Dichloroethene	ND		1	5.0	0.50	ug/L	05/15/2012 2150
cis-1,2-Dichloroethene	ND		1	5.0	0.20	ug/L	05/15/2012 2150
1,2-Dichloropropane	ND		1	5.0	0.30	ug/L	05/15/2012 2150
trans-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	05/15/2012 2150
cis-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	05/15/2012 2150
Ethylbenzene	ND		1	5.0	1.7	ug/L	05/15/2012 2150
2-Hexanone	ND		1	10	1.0	ug/L	05/15/2012 2150
Isopropylbenzene	ND		1	5.0	1.0	ug/L	05/15/2012 2150
Methyl acetate	ND		1	5.0	0.72	ug/L	05/15/2012 2150
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	05/15/2012 2150
4-Methyl-2-pentanone	ND		1	10	0.80	ug/L	05/15/2012 2150
Methylcyclohexane	ND		1	5.0	0.95	ug/L	05/15/2012 2150
Methylene chloride	ND		1	5.0	1.7	ug/L	05/15/2012 2150
Styrene	ND		1	5.0	0.10	ug/L	05/15/2012 2150
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.40	ug/L	05/15/2012 2150
Tetrachloroethene	ND		1	5.0	0.40	ug/L	05/15/2012 2150
Toluene	ND		1	5.0	1.7	ug/L	05/15/2012 2150
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.30	ug/L	05/15/2012 2150
1,2,4-Trichlorobenzene	ND		1	5.0	1.7	ug/L	05/15/2012 2150
1,1,1-Trichloroethane	ND		1	5.0	0.20	ug/L	05/15/2012 2150
1,1,2-Trichloroethane	ND		1	5.0	0.30	ug/L	05/15/2012 2150

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ84858-001
Batch: 84858
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.30	ug/L	05/15/2012 2150
Trichlorofluoromethane	ND		1	5.0	0.30	ug/L	05/15/2012 2150
Vinyl chloride	ND		1	2.0	0.10	ug/L	05/15/2012 2150
Xylenes (total)	ND		1	5.0	1.7	ug/L	05/15/2012 2150

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ84858-002
Batch: 84858
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	120		1	119	70-130	05/15/2012 2017
Benzene	50	50		1	101	70-130	05/15/2012 2017
Bromodichloromethane	50	54		1	109	70-130	05/15/2012 2017
Bromoform	50	47		1	95	70-130	05/15/2012 2017
Bromomethane (Methyl bromide)	50	48		1	96	60-140	05/15/2012 2017
2-Butanone (MEK)	100	120		1	118	60-140	05/15/2012 2017
Carbon disulfide	50	45		1	90	60-140	05/15/2012 2017
Carbon tetrachloride	50	56		1	112	70-130	05/15/2012 2017
Chlorobenzene	50	50		1	99	70-130	05/15/2012 2017
Chloroethane	50	50		1	99	42-163	05/15/2012 2017
Chloroform	50	51		1	101	70-130	05/15/2012 2017
Chloromethane (Methyl chloride)	50	56		1	111	70-130	05/15/2012 2017
Cyclohexane	50	57		1	114	70-130	05/15/2012 2017
1,2-Dibromo-3-chloropropane (DBCP)	50	52		1	104	70-130	05/15/2012 2017
Dibromochloromethane	50	48		1	96	70-130	05/15/2012 2017
1,2-Dibromoethane (EDB)	50	54		1	108	70-130	05/15/2012 2017
1,4-Dichlorobenzene	50	49		1	97	70-130	05/15/2012 2017
1,3-Dichlorobenzene	50	51		1	102	70-130	05/15/2012 2017
1,2-Dichlorobenzene	50	50		1	100	70-130	05/15/2012 2017
Dichlorodifluoromethane	50	58		1	116	60-140	05/15/2012 2017
1,2-Dichloroethane	50	53		1	105	70-130	05/15/2012 2017
1,1-Dichloroethane	50	51		1	102	70-130	05/15/2012 2017
trans-1,2-Dichloroethene	50	51		1	102	70-130	05/15/2012 2017
1,1-Dichloroethene	50	53		1	106	70-130	05/15/2012 2017
cis-1,2-Dichloroethene	50	50		1	101	70-130	05/15/2012 2017
1,2-Dichloropropane	50	53		1	107	70-130	05/15/2012 2017
trans-1,3-Dichloropropene	50	49		1	98	70-130	05/15/2012 2017
cis-1,3-Dichloropropene	50	49		1	98	70-130	05/15/2012 2017
Ethylbenzene	50	53		1	105	70-130	05/15/2012 2017
2-Hexanone	100	110		1	110	60-140	05/15/2012 2017
Isopropylbenzene	50	49		1	99	70-130	05/15/2012 2017
Methyl acetate	50	51		1	103	70-130	05/15/2012 2017
Methyl tertiary butyl ether (MTBE)	50	54		1	107	70-130	05/15/2012 2017
4-Methyl-2-pentanone	100	110		1	111	60-140	05/15/2012 2017
Methylcyclohexane	50	57		1	113	70-130	05/15/2012 2017
Methylene chloride	50	48		1	96	70-130	05/15/2012 2017
Styrene	50	50		1	100	70-130	05/15/2012 2017
1,1,2,2-Tetrachloroethane	50	53		1	105	70-130	05/15/2012 2017
Tetrachloroethene	50	52		1	105	70-130	05/15/2012 2017
Toluene	50	51		1	103	70-130	05/15/2012 2017
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	49		1	99	70-130	05/15/2012 2017
1,2,4-Trichlorobenzene	50	49		1	97	70-130	05/15/2012 2017
1,1,1-Trichloroethane	50	53		1	106	70-130	05/15/2012 2017
1,1,2-Trichloroethane	50	52		1	105	70-130	05/15/2012 2017

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ84858-002
Batch: 84858
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	51		1	102	70-130	05/15/2012 2017
Trichlorofluoromethane	50	53		1	107	70-130	05/15/2012 2017
Vinyl chloride	50	53		1	107	70-130	05/15/2012 2017
Xylenes (total)	100	110		1	107	70-130	05/15/2012 2017

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		103	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ84858-003
Batch: 84858
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	120		1	116	2.0	70-130	20	05/15/2012 2040
Benzene	50	50		1	100	0.75	70-130	20	05/15/2012 2040
Bromodichloromethane	50	54		1	109	0.094	70-130	20	05/15/2012 2040
Bromoform	50	48		1	95	0.46	70-130	20	05/15/2012 2040
Bromomethane (Methyl bromide)	50	47		1	93	2.7	60-140	20	05/15/2012 2040
2-Butanone (MEK)	100	120		1	117	1.3	60-140	20	05/15/2012 2040
Carbon disulfide	50	44		1	89	1.3	60-140	20	05/15/2012 2040
Carbon tetrachloride	50	55		1	110	1.7	70-130	20	05/15/2012 2040
Chlorobenzene	50	50		1	100	0.15	70-130	20	05/15/2012 2040
Chloroethane	50	48		1	95	4.1	42-163	20	05/15/2012 2040
Chloroform	50	51		1	101	0.34	70-130	20	05/15/2012 2040
Chloromethane (Methyl chloride)	50	52		1	104	6.4	70-130	20	05/15/2012 2040
Cyclohexane	50	55		1	109	3.9	70-130	20	05/15/2012 2040
1,2-Dibromo-3-chloropropane (DBCP)	50	52		1	105	0.13	70-130	20	05/15/2012 2040
Dibromochloromethane	50	48		1	96	0.34	70-130	20	05/15/2012 2040
1,2-Dibromoethane (EDB)	50	54		1	108	0.048	70-130	20	05/15/2012 2040
1,4-Dichlorobenzene	50	49		1	98	0.15	70-130	20	05/15/2012 2040
1,3-Dichlorobenzene	50	51		1	102	0.00	70-130	20	05/15/2012 2040
1,2-Dichlorobenzene	50	50		1	100	0.19	70-130	20	05/15/2012 2040
Dichlorodifluoromethane	50	56		1	112	3.1	60-140	20	05/15/2012 2040
1,2-Dichloroethane	50	52		1	104	1.1	70-130	20	05/15/2012 2040
1,1-Dichloroethane	50	51		1	101	1.0	70-130	20	05/15/2012 2040
trans-1,2-Dichloroethene	50	50		1	101	1.4	70-130	20	05/15/2012 2040
1,1-Dichloroethene	50	52		1	105	1.4	70-130	20	05/15/2012 2040
cis-1,2-Dichloroethene	50	50		1	101	0.31	70-130	20	05/15/2012 2040
1,2-Dichloropropane	50	53		1	106	0.61	70-130	20	05/15/2012 2040
trans-1,3-Dichloropropene	50	49		1	97	0.52	70-130	20	05/15/2012 2040
cis-1,3-Dichloropropene	50	49		1	97	0.68	70-130	20	05/15/2012 2040
Ethylbenzene	50	52		1	104	0.82	70-130	20	05/15/2012 2040
2-Hexanone	100	110		1	110	0.22	60-140	20	05/15/2012 2040
Isopropylbenzene	50	49		1	98	0.76	70-130	20	05/15/2012 2040
Methyl acetate	50	50		1	101	2.0	70-130	20	05/15/2012 2040
Methyl tertiary butyl ether (MTBE)	50	54		1	107	0.27	70-130	20	05/15/2012 2040
4-Methyl-2-pentanone	100	110		1	111	0.55	60-140	20	05/15/2012 2040
Methylcyclohexane	50	56		1	112	0.92	70-130	20	05/15/2012 2040
Methylene chloride	50	48		1	96	0.42	70-130	20	05/15/2012 2040
Styrene	50	50		1	100	0.44	70-130	20	05/15/2012 2040
1,1,2,2-Tetrachloroethane	50	53		1	106	0.55	70-130	20	05/15/2012 2040
Tetrachloroethene	50	51		1	103	2.0	70-130	20	05/15/2012 2040
Toluene	50	51		1	102	0.55	70-130	20	05/15/2012 2040
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	48		1	96	2.7	70-130	20	05/15/2012 2040
1,2,4-Trichlorobenzene	50	48		1	97	0.37	70-130	20	05/15/2012 2040
1,1,1-Trichloroethane	50	52		1	105	1.3	70-130	20	05/15/2012 2040
1,1,2-Trichloroethane	50	52		1	104	0.70	70-130	20	05/15/2012 2040

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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: NQ84858-003
Batch: 84858
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

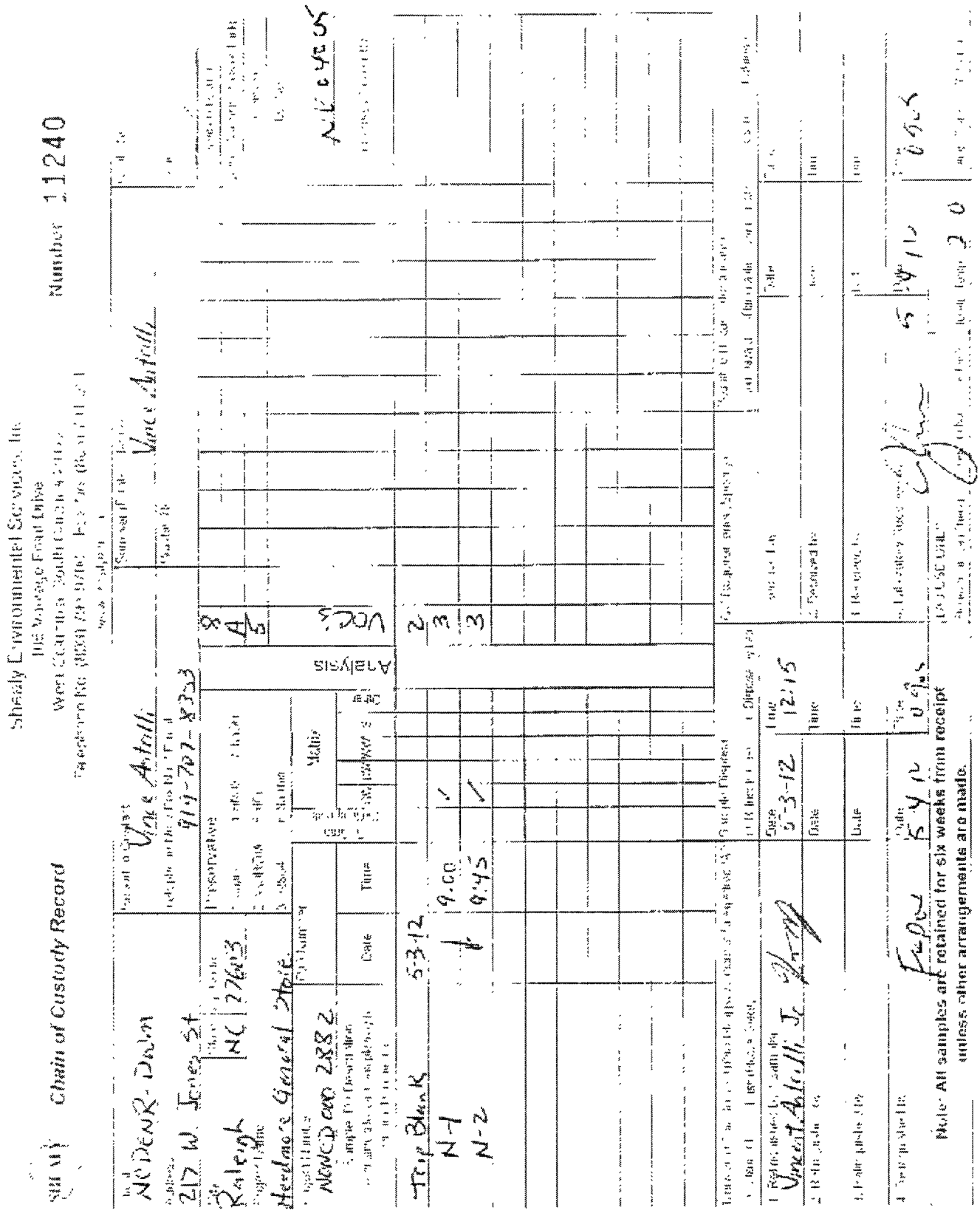
Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	51		1	103	0.59	70-130	20	05/15/2012 2040
Trichlorofluoromethane	50	52		1	103	3.1	70-130	20	05/15/2012 2040
Vinyl chloride	50	51		1	101	5.2	70-130	20	05/15/2012 2040
Xylenes (total)	100	110		1	107	0.30	70-130	20	05/15/2012 2040

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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.
Chain of Custody Record
Number 11240
Analysis
Note: All samples are retained for six weeks from receipt
unless other arrangements are made.

Shealy Environmental Services, Inc.
Document Number: [illegible]
Revision Number: [illegible]

Page 1 of 1
Replaces Date: 05/06/11
Effective Date: [illegible]

Sample Receipt Checklist (SRC)

Client: NCDENR Cooler Inspected by/date: Gen 5/4/12 Lot #: NE04005

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 2.0 °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/BNA/pest/PCB/herb (<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) ___ were received with bubbles >6 mm in diameter

Sample(s) ___ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

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

Dexter R. Matthews, Director | Beverly Eaves Purdue, Governor | Dee Freeman, Secretary

MEMORANDUM

Date: May 4, 2012

To: File

From: Vince Antrilli
Raleigh Regional Office
Inactive Hazardous Sites Branch

Re: Needmore General Store – Sampling Trip Summary
NONCD 000 2882

- Larry Rose, and I visited the site on May 3, 2012 to perform well sampling in the area. We sampled the addresses list below:
  - 6520 Vintage Ridge Ln
  - 6516 Vintage Ridge Ln
- The samples collected were sent to Shealy Lab on May 3, 2012.

Well Log Sheet

Site Name: Needmore General Store
Site Id #: 2882
Owner Name: Donald Jones
Well Address: 6516 Vintage Ridge Lane
Well ID #: N-2

Coordinates: _____ N
_____ E

Weather
Temp: 73°
Wind: calm
Percip: clear

Date: _____
Sample Team: Antrilli & Rose

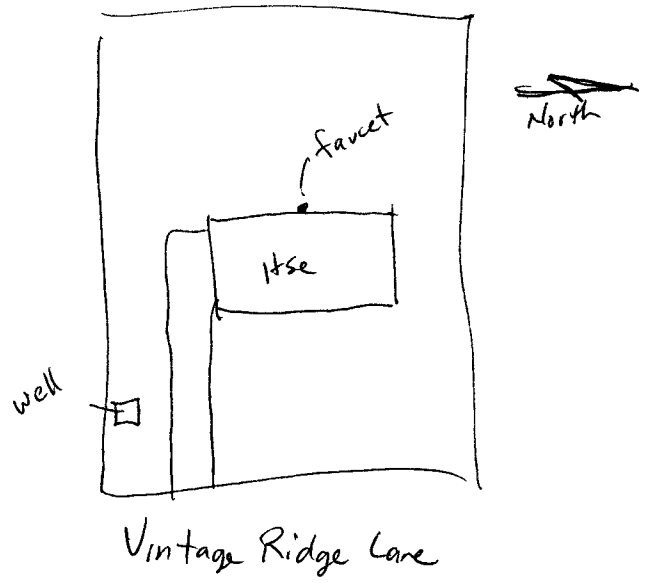
Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	19.6	19.1	18.8		
pH	6.39	6.42	6.43		
S.C.	101.4	101.6	97.6		
Turbidity	21.4	18.0	15.5		

Time Sample Collected: 9:45

Water Condition (turbodity, color, odor): clear, odorless

Lot Layout



Samples Collected:
- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet in rear of house. We tried to use faucet @ well house but when trying to tighten value we could not stop drip. Faucet in rear of house has a splitter. When shutting off valve (main) on right side there was significant drip from left side.

Well Log Sheet

Site Name: Needmore General Store

Site Id #: 2882

Owner Name: William Sturtevant

Well Address: 6520 Vintage Ridge Lane

Well ID #: N-1

Coordinates: _____ N

_____ E

Weather

Temp: 73°

Wind: calm

Percip: clear

Date: 5-3-12

Sample Team: Antrilli & Rose

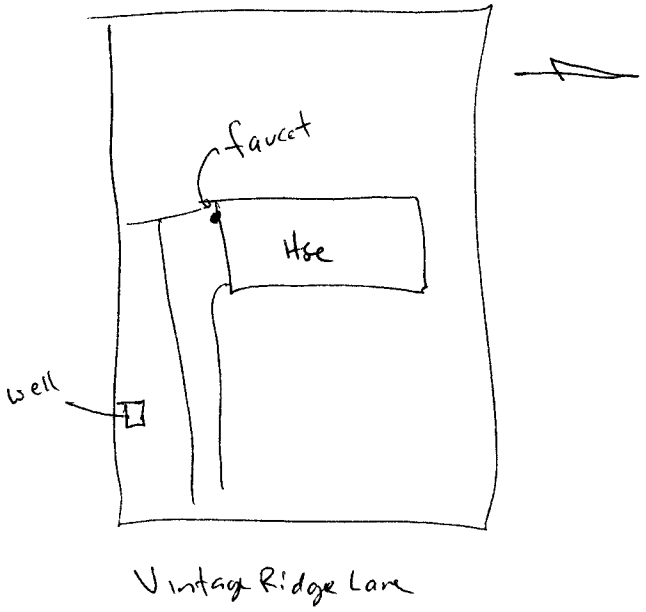
Comments (well construction, etc.) _____

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	19.8	19.3	19.2		
pH	7.17	7.57	7.47		
S.C.	~~171~~ 163.8	162.8	159.8		
Turbidity	2.57	2.89	2.66		

Time Sample Collected: 9:00

Water Condition (turbodity, color, odor): Clear and odorless

Lot Layout



Samples Collected:

- ✓ VOCs (3 - 40ml vials)
- ____ 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: Sample from faucet on left side of house

SHEALY

Chain of Custody Record

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

Number 11240

Client: NCDENR-DWM	Report to Contact: Vince Antrilli	Sampler (Printed Name): Vince Antrilli	Quote No.
Address: 217 W. Jones St	Telephone No. / Fax No. / Email: 919-707-8353	Waybill No.	Page ___ of ___
City: Raleigh / State: NC / Zip Code: 27603	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio. 7. NaOH		
Project Name: Heedmore General Store			
Project Number: NONCD000 2882	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: VOC's	Number of Containers	Bottle (See Instructions on back)	Preservative	Lot No.	Remarks / Cooler ID
										8	A	5		
Trip Blank	5-3-12									2				
N-1	↓	9:00		✓						3				
N-2	↓	9:45		✓						3				

Turn Around Time Required (Prior lab approval required for expedited TAT)
☐ Standard ☐ Rush (Please Specify)

Sample Disposal
☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification
☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison ☐Unknown

	Date	Time		Date	Time
1. Relinquished by / Sampler: Vincent Antrilli Jr	5-3-12	12:15	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory Received by		

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. _____ °C
Temp. Blank ☐ Y / ☐ N

Instructions

Please complete as many fields possible. Contact your lab Project Manager with any questions reagrding Chain of Custody completion.

Bottle Types (Insert letter code for bottle type submitted)

A - 40ml Vial Clear

B - 40ml Vial Amber

C - 125ml Plastic

D - 250ml Plastic

E - 250ml Amber

F - 500ml Plastic

G - 500ml Amber

H - 1L Plastic

I - 1L Amber

J - 1L Widemouth

K - 2L Plastic

L - 2 oz. jar

M - 4 oz. jar

N - 9 oz jar

O - 100ml sterile

NCDENR

North Carolina Department of Environment and Natural Resources

Division of Waste Management

Dexter R. Matthews, Director | Beverly Eaves Purdue, Governor | Dee Freeman, Secretary

MEMORANDUM

Date: March 13, 2012

To: File

From: Vince Antrilli
Raleigh Regional Office
Inactive Hazardous Sites Branch

Re: Needmore General Store – Waterline extension
NONCD0002882

- I spoke with Jay Meyers PE, Utilities Director for Fuquay-Varina, about the waterline extension requirements as outlined in his email dated March 12, 2012. (see below)
- Email excerpt:

"I understand that there is another property with a contaminated well in the Vintage Ridge subdivision adjacent to properties currently being served with Town water. Per Town requirements, when a property wishes to connect to Town water, they are responsible for extending the water line to their furthest property corner along the right-of-way. We recognize in this instance that there are certain hardships to consider, and our concession to that fact is requiring only the extension of two joints of pipe so that the service will be contained on the subject property and will allow for the future extension.

Following is the procedure for extending the water line:

1. Annexation of the property into the Town's corporate limits. The annexation application is available on our website at www.fuquay-varina.org, and there is an application fee of $200
2. The extension must be designed and plans prepared by a NC PE, approved by the Town, and permitted, with applicable fee, in the Town's name through NCDENR as a public water extension.
3. The Town will inspect the installation and testing of the water line by a contractor. The project administration will need to be handled by a third party; the Town will be neither the administrator nor the contractor for this project.
4. Other fees that will need to be paid to the Town - $210 for water tap fee that will cover cost of meter but requires contractor to install tap, service line, and meter box; $1000 water capacity fee; and $60 plumbing permit fee."

- Issues discussed were the design and permit requirements, construction costs, water capacity fee, and project administration of extension.
- The city feels that due to this being a hardship, their concession to allow only 2 pipe segments as opposed to the required length of the entire property frontage is the best that can be offered.
- We discussed the possibility of a permit not being required for a small length of extension. Mr. Meyers then offered that if a permit is not required, they (F-V Utils) would look to construct the extension in house and seek reimbursement for costs in addition to the above mentioned fees.
- While there may still be issues with full reimbursement and certain fees, we agreed to look into the permit requirements then tackle other issues.

Antrilli, Vincent

From: Jay Meyers [jmeyers@fuquay-varina.org]
Sent: Monday, March 12, 2012 4:40 PM
To: Antrilli, Vincent; 'Tracy Stephenson'
Cc: 'Mike Sorensen'
Subject: RE: Water Service to 6515 Vintage Ridge Ln

Vince
~~Nick~~,
I understand that there is another property with a contaminated well in the Vintage Ridge subdivision adjacent to properties currently being served with Town water. Per Town requirements, when a property wishes to connect to Town water, they are responsible for extending the water line to their furthest property corner along the right-of-way. We recognize in this instance that there are certain hardships to consider, and our concession to that fact is requiring only the extension of two joints of pipe so that the service will be contained on the subject property and will allow for the future extension.

Following is the procedure for extending the water line:

1. Annexation of the property into the Town's corporate limits. The annexation application is available on our website at www.fuquay-varina.org, and there is an application fee of $200
2. The extension must be designed and plans prepared by a NC PE, approved by the Town, and permitted, with applicable fee, in the Town's name through NCDENR as a public water extension.
3. The Town will inspect the installation and testing of the water line by a contractor. The project administration will need to be handled by a third party; the Town will be neither the administrator nor the contractor for this project.
4. Other fees that will need to be paid to the Town - $210 for water tap fee that will cover cost of meter but requires contractor to install tap, service line, and meter box; $1000 water capacity fee; and $60 plumbing permit fee.

Please feel free to contact me if you have any questions.

Jay T. Meyers, P.E.
Public Utilities Director
Town of Fuquay-Varina
401 Old Honeycutt Road
Fuquay-Varina, NC 27526
919-567-3911
919-552-7481 (fax)

From: Antrilli, Vincent [mailto:vincent.antrilli@ncdenr.gov]
Sent: Monday, March 12, 2012 4:07 PM
To: Tracy Stephenson
Cc: Jay Meyers
Subject: RE: Water Service to 6515 Vintage Ridge Ln

Ok. So in order to accomplish this does the Town of Fuquay do the extension or subcontract the work out? What is required from us?
If there is a cost involved, as we have previously discussed, we can assist with funding for one-third the cost up to $10,000.
Thank you,
Vince

Vincent Antrilli, Jr.
Environmental Specialist,

Bernard Allen Fund Program Manager
Inactive Hazardous Sites Branch
NC Division of Waste Management
Vincent.Antrilli@ncdenr.gov

Physical Address.
217 West Jones Street
Raleigh, NC 27603

Mailing Address:
1646 Mail Service Center
Raleigh, NC 27699-1646

Tel: 919-707-8353
Fax: 919-707-8353 [Same as Tel]
Main Tel: 919-707-8200

From: Tracy Stephenson [mailto:tstephenson@fuquay-varina.org]
Sent: Monday, March 12, 2012 12:52 PM
To: Antrilli, Vincent
Cc: Jay Meyers
Subject: RE: Water Service to 6515 Vintage Ridge Ln

Vincent,

I have discussed this with our utilities director. We feel that the minimum would be to extend the existing waterline for two joints of pipe onto the adjoining property. This will require a blowoff assembly at the new terminus of the water line. The construction needs to be completed so that the line can be extended without extensive rework. Please let me know if you have further questions.

Thanks,

Tracy A. Stephenson, P.E.
Town Engineer
Town of Fuquay-Varina, NC
919-753-1039

From: Antrilli, Vincent [mailto:vincent.antrilli@ncdenr.gov]
Sent: Friday, March 09, 2012 10:31 AM
To: Tracy Stephenson
Subject: Water Service to 6515 Vintage Ridge Ln

Hello Tracy,
I have not heard anything with regard to the request for a service connection to the above property. We would like to proceed as quickly as possible. Has a determination been made regarding the need for a main extension and if so the minimum length needed?
Thank you,
Vince

Vincent Antrilli, Jr.
Environmental Specialist,
Bernard Allen Fund Program Manager
Inactive Hazardous Sites Branch

NC Division of Waste Management
Vincent.Antrilli@ncdenr.gov

Physical Address:
217 West Jones Street
Raleigh, NC 27603

Mailing Address.
1646 Mail Service Center
Raleigh, NC 27699-1646

Tel: 919-707-8353
Fax: 919-707-8353 [Same as Tel]
Main Tel: 919-707-8200

FVWLE
6 Feb 2012

Needmore General Store Waterline Expansion, Phase 2, 6516 Vintage Ridge Lane Fuquay-Varina:

WL extension

Tracy Stephenson
/ 919-753-1039

- Mobilization
- Traffic Control
- Erosion Control
- Install 215LF± 6" DIP Waterline across frontage of parcel; Town Engineer indicated that it is not necessary to cross adjacent undeveloped right-of-way
- Provide for one driveway crossing
- Install 6" rodded gate valve and 2" BOA at terminal end of new waterline
- Install ¾" service and meter; may need to be 1" service and meter, depending on tapping location
- Install one hydrant assembly
- Pavement Restoration
- Fine Grading and Seeding

Note: *WL cost estimate based on average unit cost of the proposals received for Needmore General Store Phase 2*

Anticipated WL construction costs **$20,615**

Engineering Scope of Services (on behalf of the owner):

Prepare plan and profile sheet
Prepare detail sheet
Obtain town engineering approval
Obtain NCDENR Waterline Extension permit approval
Submit for and obtain annexation and rezoning approvals from Town Board of Aldermen
Prepare construction bid documents and recommend lowest qualified bidder
Construction certification
Prepare as-built drawings for town acceptance

Anticipated Cost of Engineering Services **$9100**

Survey Scope of Services

Obtain topographic and utility underground locations
Construction Staking
Collect As-Built information
Annexation Map and Legal Description

Anticipated Cost of Survey services **$1600**

The Site Group, PLLC
1111 Oberlin Road
Raleigh NC 27605

919-835-4787
(f) 919-839-2255

Antrilli, Vincent

From: vhjones5@nc.rr.com
Sent: Tuesday, February 14, 2012 11:24 AM
To: Antrilli, Vincent
Subject: Water for 6516 Vintage Ridge Lane, Fuquay-Varina

Good Morning Mr. Antrilli!

Thank you for the approval of the assistance from the Bernard Allen Memorial Emergency Drinking Water Fund. We are so blessed and look forward to getting clean water. Our home phone #919-557-6312; Donald's cell #919-624-6294; Vicky's cell #621-0403. Please let us know what to do next.

Thanks you,

Vicky Jones

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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

February 9, 2012

Donald & Vicky Jones
6516 Vintage Ridge Lane
Fuquay-Varina, NC 27526

Re: Bernard Allen Memorial Emergency Drinking Water Fund Eligibility
Needmore General Store – Site ID #NONCD0002882

Dear Mr. and Mrs. Jones,

We are in receipt of your letter and additional information regarding Household Income Verification and have determined that you ***are*** qualified to receive assistance from the Bernard Allen Memorial Emergency Drinking Water Fund. It is the policy of the Division of Waste Management to return the affidavit after review and qualification. Enclosed you will find your financial information.

We are going to have a bottled water company begin to deliver bottled water to your residence until we can get you connected to the water system or install a filter system. Please contact me at your earliest convenience to provide your phone number & email address so we can have the bottled water company contact you to schedule delivery. You can contact me at ***(919) 707-8353*** or ***Vincent.Antrilli@ncdenr.gov***.

Sincerely,

Vincent Antrilli, Jr.
Inactive Hazardous Sites Branch
Superfund Section

cc: file

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

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One North Carolina Naturally

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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

January 24, 2012

Donald & Vicky Jones
6516 Vintage Ridge Lane
Fuquay-Varina, NC 27526

Re: Contaminated Water Supply Well
At 6516 Vintage Ridge Ln
Needmore General Store - Site ID#NONCD0002882

Dear Mr. & Mrs. Jones:

It is our understanding that you are the owner of the above property. Based on our records, the contamination detected in your drinking water supply well is at concentrations exceeding safe levels for human consumption. The Bernard Allen Memorial Fund ("Fund") was established to help provide alternate water sources for home owners throughout North Carolina who might otherwise not able to afford to provide alternate water for themselves in situations where the primary drinking water source well has become contaminated. We are aware of an ongoing waterline extension project in the vicinity of your house but also know that there are extenuating circumstances that may prohibit or make difficult a connection to this water line. We are interested in providing you with a clean water alternative as quickly as possible by way of a filter system or public water.

Qualification for use of the Fund is required for each site. Attached you will find a Household Income Verification Affidavit to be completed and returned to our office. If you do not meet the requirements in the affidavit, please notify this office in writing and provide appropriate documentation. In the event this office receives your documentation of non-qualification, our office will evaluate whether other funds are available to pay for the alternate water system.

Please complete the attached form if you qualify. If you do not qualify, please send a letter along with a copy of your 2010 1040-Tax Form. This will be returned to you via certified mail as it is the policy of the state not to retain financial information of individuals. Please contact me as soon as possible to discuss this offer and possible solutions. If you have any questions, concerning this issue, please contact me at ***(919) 707-8353 or Vincent.Antrilli@ncdenr.gov*** .

Sincerely,

Vincent Antrilli, Jr.
Inactive Hazardous Site Branch
Superfund Section

cc: file

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

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NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

IN THE MATTER OF: Bernard Allen Memorial Emergency Drinking Water Fund Eligibility by Donald & Vicky Jones

UNDER THE AUTHORITY OF	)	**AFFIDAVIT**
NORTH CAROLINA GENERAL	)	**RE: Household Income Verification**
STATUTES § 87-98	)	

Donald & Vicky Jones, being duly sworn, hereby deposes and says:

1. I am/we are the owner of property generally referred to as **6516 Vintage Ridge Ln, Fuquay-Varina, Wake** County, North Carolina.

2. I am/we are applying for eligibility under the North Carolina General Statute (N.C.G.S.) § 87-98 (Bernard Allen Memorial Emergency Drinking Water Fund) for an alternate water supply for the property generally referred to as **6516 Vintage Ridge Ln, Fuquay-Varina, Wake** County, North Carolina.

3. I/We hereby certify, under the pains and penalties of perjury, that I/We meet the eligibility requirements of N.C.G.S. § 87-98(c), in that my/our household gross income for calendar year **2010** is not greater than three hundred percent (300%) of the current federal poverty guidelines determined by the US Department of Health and Human Services, as listed below:

   2010 Poverty Guidelines for the 48 Contiguous States and the District of Columbia

Persons in family	Poverty guideline
1	$10,830
2	14,570
3	18,310
4	22,050
5	25,790
6	29,530
7	33,270
8	37,010

   For families with more than 8 persons, add $3,740 for each additional person.

4. I hereby certify, under the pains and penalties of perjury, that I/we have not caused or contributed to the groundwater contamination resulting in the need to seek eligibility for use of the Bernard Allen Memorial Drinking Water Fund. .

   Affiant further saith not.

Signature/Printed Name Date

Sworn to and subscribed before me

this _____ day of _____, 20___.

_____ Notary Public

My commission expires: _____ (SEAL)

Needmore General Store - NONCD000????

Well Address	Sample Date	Sample By	Well ID#	PCE 2L= 0.7 MCL= 5 RAL= 12	TCE 2L= 3 MCL= 5 RAL= 300	1,2-DCA 2L= 0.4 MCL= RAL=	1,2 Dichloropropane 2L= 0.6 MCL= 5 RAL=	Total Xylenes 2L= 500 MCL= 10000 RAL= 10000	Toluene 2L= 600 MCL= 1000 RAL=	ethyl-benzene 2L= 600 MCL= 700 RAL=	Total BTEX 2L= MCL= RAL=	Benzene 2L= 1 MCL= 5 RAL=	MTBE 2L= 20 MCL= RAL= 1250	HRE Sent	Comments
6500 Vintage Ridge Lane	3/9/2009		**6128**				**0.61**								
	8/24/2009						**0.55**								
	12/23/2009						**0.47**								
	4/30/2010														
	8/22/2010						**0.66**								
	12/1/2010						**0.72**								
	3/10/2011														
	6/8/2011						**1**								
	9/30/2011						**1.4**								
4105 Planters Glen Ct	3/10/2011		**3028**			**1.2**	**3.1**					**2.6**			
	6/8/2011					**0.61**	**2.6**						**1.1**		
	9/30/2011			No Detections											
6516 Vintage Ridge Lane	3/10/2011		**3636**				**5.3**								
	6/8/2011						**4.1**								
	9/30/2011						**5.1**								

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

11/21/2011

COPY

NCDENR

North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue, Governor

Division of Waste Management
UST Section

Dee Freeman, Secretary
Dexter R. Matthews, Director

October 19, 2011

Jeffery R. McDermott
4105 Planters Glen Court
Fuquay-Varina, North Carolina 27526-8670

Re: Water Supply Sample Analytical Results
Tracking ID: 22139

Dear Mr. McDermott:

A sample was collected from the well identified as 3028, located at 4105 Planters Glen Court , Fuquay-Varina, Wake County on September 30, 2011, as part of the investigation of a petroleum release in the vicinity. The water sample was analyzed for specific target analytes (contaminants), which are listed on the attached Sample Analytical Results. No contaminants were detected in the water. If you have any questions, please contact me at the address or telephone number listed below for the Raleigh Regional Office.

Sincerely,

Mickey Roberts
Incident Manager
Raleigh Regional Office

Attachment: 3028 (McDermott) Sample Analytical Results

cc: ATC Associates, Inc., 2725 East Millbrook Rd., Suite 121, Raleigh, NC 27604
RRO UST Incident File

UST Regional Offices

Asheville (ARO) – 2090 US Highway 70, Swannanoa, NC 28778 **(828) 296-4500**

Fayetteville (FAY) – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 **(910) 433-3300**

Mooresville (MOR) – 610 East Center Avenue, Suite 301, Mooresville, NC 28115 **(704) 663-1699**

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**

Washington (WAS) – 943 Washington Square Mall, Washington, NC 27889 **(252) 946-6481**

Wilmington (WIL) – 127 Cardinal Drive Extension, Wilmington, NC 28405 **(910) 796-7215**

Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 **(336) 771-5000**

Guilford County Environmental Health, 400 West Market Street, Suite 300, Greensboro, NC 27401, **(336) 641-3771**

FTP: WS cleanresult ltr 0210.dot

COPY

North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue, Governor

Division of Waste Management
UST Section

Dee Freeman, Secretary
Dexter R. Matthews, Director

October 31, 2011

Donald P. & Vicky H. Jones
6516 Vintage Ridge Lane
Fuquay-Varina, North Carolina 27526-7541

Re: Health Risk Evaluation of Water Supply
Tracking ID: 22139

Dear Mr. & Mrs. Jones:

Please find attached the Sample Analytical Results for a water sample collected from your well, identified as 3636, located at 6516 Vintage Ridge Lane, Fuquay-Varina, Wake County, on September 30, 2011. The sample was collected and analyzed as part of the investigation of a petroleum release in the vicinity. The water sample was analyzed for specific target analytes (contaminants), which are listed on the attached Sample Analytical Results. Contaminants were detected in the water sample, as shown on the attached Sample Analytical Results.

Because contaminants were detected in the water sample, a Health Risk Evaluation of the water supply was performed by an environmental toxicologist in the Division of Waste Management. The Health Risk Evaluation, which is attached also, compares the detected concentration of contaminants to acceptable concentrations and provides a recommendation for safe use of the water.

If you have any questions, please contact Dave Lilley at (919) 508-8412 or contact me at the address or telephone number listed below for the Raleigh Regional Office.

Sincerely,

Mickey Roberts
Incident Manager
Raleigh Regional Office

Attachments: 3636 Sample Analytical Results
Health Risk Evaluation

cc: ATC Associates, Inc., 2725 East Millbrook Road, Suite 121, Raleigh, NC 27604
Greg Bright, Wake County Environmental Services
RRO UST Incident File

Fayetteville (FAY) – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 **(910) 433-3300**

Mooresville (MOR) – 610 East Center Avenue, Suite 301, Mooresville, NC 28115 **(704) 663-1699**

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**

Washington (WAS) – 943 Washington Square Mall, Washington, NC 27889 **(252) 946-6481**

Wilmington (WIL) – 127 Cardinal Drive Extension, Wilmington, NC 28405 **(910) 796-7215**

Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 **(336) 771-5000**

Guilford County Environmental Health, 400 West Market Street, Suite 300, Greensboro, NC 27401, **(336) 641-3771**

FTP: WS HRE result 0210.dot

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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

October 26, 2011

TO: Mickey Roberts
Raleigh Regional Office
NC UST Section

FROM: David Lilley
Environmental Toxicologist
NC Division of Waste Management

RE: Health Risk Evaluation
Tracking ID: 22139
Donald & Vicky Jones Well Sampling Results
6516 Vintage Ridge Lane
Fuquay-Varina, NC

During this sampling event, two contaminants were detected in the well water. One of the contaminants, 1,2-dichloropropane, was detected at a concentration that exceeded applicable standards. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

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 non-ingestive uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentrations with the applicable standards:

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-508-8400 \ FAX: 919-715-4061 \ Internet: www.wastenotnc.org

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Sample ID	Contaminant	Concentration (ug/l)*	MCL (ug/l)	2L (ug/l)
L0006316-24	1,2-Dichloroethane	0.77	5	
	1,2-Dichloropropane	5.1	5	

Shaded boxes indicate a standard has been exceeded.

* The abbreviation ug/l stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

RECOMMENDATION: The 1,2-dichloropropane concentration in this well exceed the MCL. Therefore, this water is not recommended for drinking or cooking at this time. No restrictions are recommended for using the water for other non-ingestive uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing.

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COPY

NCDENR

North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue, Governor

Division of Waste Management
UST Section

Dee Freeman, Secretary
Dexter R. Matthews, Director

October 31, 2011

Stephen & Jodi Sgroi
6500 Vintage Ridge Lane
Fuquay-Varina, North Carolina 27526

Re: Health Risk Evaluation of Water Supply
Tracking ID: 22139

Dear Mr. & Mrs. Sgroi:

Please find attached the Sample Analytical Results for a water sample collected from your well, identified as 6128, located at 6500 Vintage Ridge Lane, Fuquay-Varina, Wake County, on September 30, 2011. The sample was collected and analyzed as part of the investigation of a petroleum release in the vicinity. The water sample was analyzed for specific target analytes (contaminants), which are listed on the attached Sample Analytical Results. Contaminants were detected in the water sample, as shown on the attached Sample Analytical Results.

Because contaminants were detected in the water sample, a Health Risk Evaluation of the water supply was performed by an environmental toxicologist in the Division of Waste Management. The Health Risk Evaluation, which is attached also, compares the detected concentration of contaminants to acceptable concentrations and provides a recommendation for safe use of the water.

If you have any questions, please contact Dave Lilley at (919) 508-8412 or contact me at the address or telephone number listed below for the Raleigh Regional Office.

Sincerely,

Mickey Roberts
Incident Manager
Raleigh Regional Office

Attachments: 6128 Sample Analytical Results
Health Risk Evaluation

cc: ATC Associates, Inc., 2725 East Millbrook Road, Suite 121, Raleigh, NC 27604
Greg Bright, Wake County Environmental Services
RRO UST Incident File

UST Regional Offices

Asheville (ARO) – 2090 US Highway 70, Swannanoa, NC 28778 **(828) 296-4500**

Fayetteville (FAY) – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 **(910) 433-3300**

Mooresville (MOR) – 610 East Center Avenue, Suite 301, Mooresville, NC 28115 **(704) 663-1699**

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**

Washington (WAS) – 943 Washington Square Mall, Washington, NC 27889 **(252) 946-6481**

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

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

October 26, 2011

TO: Mickey Roberts
Raleigh Regional Office
NC UST Section

FROM: David Lilley
Environmental Toxicologist
NC Division of Waste Management

RE: Health Risk Evaluation
Tracking ID: 22139
Stephen & Jodi Sgroi Well Sampling Results
6500 Sunset Lake Road – Vintage Ridge Ln.
Fuquay-Varina, NC

During this sampling event, one contaminant was detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If the contaminant concentration exceeds the applicable standard for using the water for drinking and cooking, the contaminant concentration is further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentration with the applicable standard:

Sample ID	Contaminant	Concentration (ug/l)*	MCL (ug/l)	2L (ug/l)
L0006316-16	1,2-Dichloropropane	1.4	5	

* The abbreviation ug/l stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

RECOMMENDATION: The detected contaminant did not exceed the applicable water standard. Therefore, no restrictions on the use of this water are recommended at this time.

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-508-8400 \ FAX: 919-715-4061 \ Internet: www.wastenotnc.org

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North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director | Division of Waste Management | Beverly Eaves Purdue, Governor
Dee Freeman, Secretary

MEMORANDUM

Date: September 27, 2011

To: File

From: Vince Antrilli
Raleigh Regional Office
Inactive Hazardous Sites Branch

Re: Needmore General Store – Site Review Notes
NONCD000

- I spoke with Genna Olson with ATC & Assoc (environmental consultant) regarding the file sent to us and particularly:
  - What was the criteria set by UST to determine who meets their qualifications for funding alternate water? *MTBE, BTEX, 1,2-DCA*
  - Are the wells being abandoned? *Yes. UST has authorized abandonment but none have been abandoned yet.*
  - What provisions can be made to alter the current waterline extension plan should the residents we are looking at qualify for assistance? *We'd have to discuss change order with engineer.*
  - Have HRE's been sent to prop owners? *Yes*
- Well ID's 6128 and 3636 have only 1,2, Dichloropropane and will not be addressed by UST.
- Well ID 3028 has 1,2, Dichloropropane and other contaminents. Only the 1,2,-Dichloropropane is above federal drinking water standards so UST will not address.
- Currently there is a waterline extension designed and bid and ready to begin construction that will provide water to Well IDs 3928,5875,5648.
- Well Id 2368 is being planned for water service however the HOA is fighting the ROW dedication to Town of Fuquay-Varina which is necessary for waterline extension.
- IHSB has been asked to look at Well IDs 6128,3636, and 3028.
- Well ID 3028 will have ROW dedication issues.
- Well ID 6128 will not meet alternate water requirements due to the level of contamination being between 2L and MCL
- Well Id 3636 meets the contamination level criteria.
- Prior to waterline extensions, properties receiving water services must be annexed into the corporate limits of the Town of Fuquay-Varina.

North Carolina Department of Environment and Natural Resources
Dexter R. Matthews, Director | Division of Waste Management | Beverly Eaves Purdue, Governor
Dee Freeman, Secretary

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Raleigh Regional Office
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- IHSB has been asked to look at Well IDs 6128,3636, and 3028.
- Well ID 3028 will have ROW dedication issues.
- Well ID 6128 will not meet alternate water requirements due to the level of contamination being between 2L and MCL meets cont. level.
- Well Id 3636 ~~met the contamination level criteria but is <MCL per last sample event.~~
- Prior to waterline extensions, properties receiving water services must be annexed into the corporate limits of the Town of Fuquay-Varina.

Needmore General Store - NONCD000????

Well Address	Sample Date	Sample By	Well ID#	PCE 2L= 0.7 MCL= 5 RAL= 12	TCE 2L= 3 MCL= 5 RAL= 300	1,2-DCA 2L= 0.4 MCL= RAL=	1,2 Dichloropropane 2L= 0.6 MCL= 5 RAL=	Total Xylenes 2L= 500 MCL= 10000 RAL= 10000	Toluene 2L= 600 MCL= 1000 RAL=	ethyl-benzene 2L= 600 MCL= 700 RAL=	Total BTEX 2L= MCL= RAL=	Benzene 2L= 1 MCL= 5 RAL=	MTBE 2L= 20 MCL= RAL= 1250	HRE Sent	Comments
1912 Bass Lake Rd	9/9/2002		9079										20		METER INSTALLED BUT OWNER REFUSED CONNECTION TO PUBLIC WATER BY UTS SECTION
	4/23/2003												40		
	7/22/2003												7		
	10/22/2003												30		
	2/3/2004												25		
	11/11/2004												27		
	2/18/2005												40		
	5/18/2005												50		
	8/26/2005												55		
	12/6/2005												53		
	2/28/2006												77		
	6/21/2006												65		
	9/8/2006												71		
	12/7/2006												42		
	3/14/2007												50		
	6/21/2007												<.2		
	9/19/2007												28		
	2/18/2008												<.2		
	7/22/2008												30		
	11/21/2008												3.2		
	3/9/2009												<.2		
6508 Vintage Glen Court	2/28/2006		3928				1.2								Connection to Public Water is currently being worked on.
	6/21/2006						1.4								
	9/8/2009						<1								
	12/7/2006						1.6								
	3/14/2007						1.6								
	6/21/2007						<1								
	9/19/2007						1.8								
	2/18/2008					1	3								
	7/23/2008						3.6								
	11/21/2008						2.7								
	3/9/2009					0.76	3.9					0.53			
	8/24/2009					0.54	3					0.32			
	12/23/2009					0.69	3.5	0.14			0.6	0.46			
	4/30/2010					2	5.4	0.17			1.27	1.1			
	8/22/2010						6.8	0.54			2.14	1.6			
	12/1/2010					1	8.4	0.22			2.02	1.8			
	3/10/2011														
	6/8/2011												0.44		
6437 Sunset Lake Rd	10/22/2003		5648				1								Connection to Public Water is currently being worked on.
	1/28/2004														
	11/11/2004														
	5/17/2005						2.8								
	8/26/2005					1.2									
	12/6/2005					2.7									
	6/21/2006						1.6								
	12/7/2006						1.5								
	6/21/2007														
	9/19/2007						2.3								
	2/18/2008					1.1	2.6								
	7/23/2008					1.2	3.9								
	11/21/2008						3.7								
	3/9/2009						4.1								
	8/24/2009					1.1	4.4								
	12/23/2009					1.1	4.4	0.2			0.2				
	4/30/2010					2.1	3.6								
	8/22/2010					1.1	4.8								
	12/1/2010					1.1	5.1								
	3/10/2011					0.57	4.2								
	6/8/2011						4.9								
6509 Vintage Ridge Lane	2/18/2005		5875				1								
	3/30/2005														
	5/17/2005						2.1								
	3/20/2006														
	6/21/2006						2								
	12/7/2006						1.5								
	6/21/2007														
	9/19/2007						1.5								

Needmore General Store - NONCD000????

Well Address	Sample Date	Sample By	Well ID#	PCE 2L= 0.7 MCL= 5 RAL= 12	TCE 2L= 3 MCL= 5 RAL= 300	1,2-DCA 2L= 0.4 MCL= RAL=	1,2 Dichloropropane 2L= 0.6 MCL= 5 RAL=	Total Xylenes 2L= 500 MCL= 10000 RAL= 10000	Toluene 2L= 600 MCL= 1000 RAL=	ethyl-benzene 2L= 600 MCL= 700 RAL=	Total BTEX 2L= MCL= RAL=	Benzene 2L= 1 MCL= 5 RAL=	MTBE 2L= 20 MCL= RAL= 1250	HRE Sent	Comments
	2/18/2008						2.1								Connection to Public Water is currently being worked on.
	7/23/2008						2.2								
	11/21/2008						2.1								
	3/9/2009					0.57	2								
	8/24/2009					0.59	2.1								
	12/23/2009					0.59	2								
	4/30/2010					1.8	2								
	8/22/2010					0.56	2.2								
	12/1/2010					0.6	2.3								
	3/10/2011						2.2								
	6/8/2011						2.2								
1916 Bass Lake Rd	8/2/2002		0276										20		CONNECTED TO PUBLIC WATER BY UTS SECTION
	9/4/2002												17		
Well supplies water to 2400 and 3473	4/23/2003														
	7/22/2003												18		
	10/22/2003												25		
	1/28/2004												26		
	11/11/2004												36		
	2/18/2005												40		
	5/18/2005												21		
	8/26/2005												52		
	12/6/2005												87		
	2/28/2006												84		
	6/21/2006												60		
	9/8/2006												100		
	12/7/2006														
	3/14/2007												54		
	6/21/2007												68		
	9/19/2007												23		
	2/18/2008												34		
	7/22/2008												23		
	11/21/2008												12		
	3/9/2009												12		
6504 Vintage Ridge Lane	2/14/2002		4170												CONNECTED TO PUBLIC WATER BY UTS SECTION
	1/7/2003					2	2								
	1/27/2003					2	2								
	4/16/2003					2	9								
	7/22/2003						7								
	10/22/2004					3	21								
	2/3/2004					3	12								
	11/11/2004														
	2/18/2005					3	9								
	5/17/2005					5.1	20								
	8/26/2005					4.8	18								
	12/6/2005														
	2/28/2006														
	6/21/2006					6.2	29								
	9/8/2006					5.1	22								
	12/7/2006					2.7	26								
	3/14/2007														
	6/21/2007														
	9/19/2007														
	2/18/2008					7.1	35								
	7/23/2008					6.2	43								
	11/21/2008					6.4	43								
	3/9/2009					5.2	33								
6500 Vintage Ridge Lane	3/9/2009		6128				0.51								
	8/24/2009						0.55								
	12/23/2009						0.47								
	4/30/2010														
	8/22/2010						0.66								
	12/1/2010						0.72								
	3/10/2011														
	6/8/2011						1								
6408 Vintage Ridge Lane	8/22/2010		7358					0.94	30	1.1	32.04				
	12/1/2010							1.44	27	1.2	29.64				
	3/10/2011							6.9	35	1.6	42.5				
	6/8/2011														

Needmore General Store - NONCD000????

Well Address	Sample Date	Sample By	Well ID#	PCE 2L= 0.7 MCL= 5 RAL= 12	TCE 2L= 3 MCL= 5 RAL= 300	1,2-DCA 2L= 0.4 MCL= RAL=	1,2 Dichloropropane 2L= 0.6 MCL= 5 RAL=	Total Xylenes 2L= 500 MCL= 10000 RAL= 10000	Toluene 2L= 600 MCL= 1000 RAL=	ethyl-benzene 2L= 600 MCL= 700 RAL=	Total BTEX 2L= MCL= RAL=	Benzene 2L= 1 MCL= 5 RAL=	MTBE 2L= 20 MCL= RAL= 1250	HRE Sent	Comments
4109 Planters Glen Ct	1/28/2004		2002										8		
	2/12/2004														
	11/11/2004														
	2/18/2005														
	5/18/2005												29		
	8/24/2005												5.7		
	12/6/2005												4.3		
	2/28/2006												12		
	6/20/2006												9.3		
	9/8/2006														
	12/7/2006												11		
	3/14/2007														
	6/21/2007												9.1		
	9/19/2007														
	2/18/2008												7.7		
	7/22/2008														
	11/21/2008												4.8		
	3/9/2009												8.5		
	4/30/2010												9.6		
	8/22/2010												12		
	12/1/2010												3.8		
	3/10/2011												3.3		
	6/8/2011												6.5		
4106 Planters Glen Ct	5/18/2005		2368										1.1		
	2/28/2006												8.9		
	6/20/2006												6.1		
	9/8/2006												6.3		
	12/7/2006														
	3/14/2007														
	6/21/2007														
	2/18/2008														
	7/22/2008												4		
	11/21/2008												2.4		Connection to Public Water is currently being worked on.
	3/9/2009												4.3		
	8/24/2009												3.3		
	12/22/2009												4.8		
	4/30/2010												2.7		
	8/27/2010												0.74		
	12/1/2010												2.3		
	3/10/2011												1.1		
	6/8/2011												2.9		
4105 Planters Glen Ct	3/10/2011		3028			1.2	9.1					2.6			
	6/8/2011					0.61	5.6						1.1		
6516 Vintage Ridge Lane	3/10/2011		3636				5.3								
	6/8/2011						4.1								
			9079B	No Detections											
			9079C	No Detections											
6505 Vintage Ridge Lane			6983	No Detections											
6429 Sunset Lake Rd			4844	No Detections											
6506 Vintage Ridge Lane			5331	No Detections											
4101 Planters Glen Ct			3261	No Detections											
5744 Hilltop Needmore Rd			9729	No Detections											
4108 Planters Glen Ct			0372	No Detections											
4109 Harvest Glen Ct			9582	No Detections											
4105 Harvest Glen Ct			1573	No Detections											
			1705	No Detections											
			9876	No Detections											
			8863	No Detections											
1828 Bass Lake Rd			5433	No Detections											
1921 Bass Lake Rd			8962	No Detections											

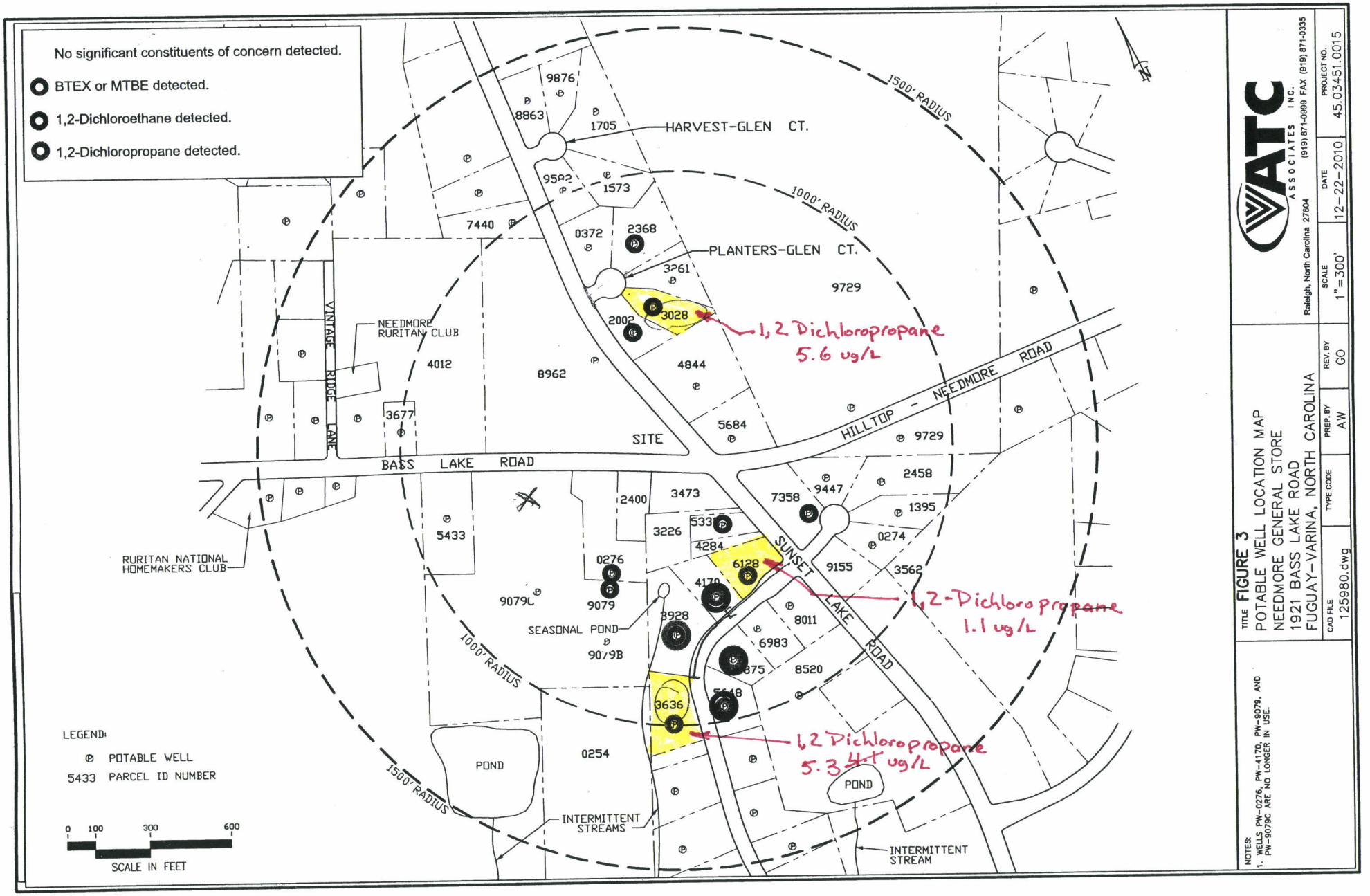
Needmore General Store - NONCD000????

Well Address	Sample Date	Sample By	Well ID#	PCE 2L= 0.7 MCL= 5 RAL= 12	TCE 2L= 3 MCL= 5 RAL= 300	1,2-DCA 2L= 0.4 MCL= RAL=	1,2 Dichloropropane 2L= 0.6 MCL= 5 RAL=	Total Xylenes 2L= 500 MCL= 10000 RAL= 10000	Toluene 2L= 600 MCL= 1000 RAL=	ethyl-benzene 2L= 600 MCL= 700 RAL=	Total BTEX 2L= MCL= RAL=	Benzene 2L= 1 MCL= 5 RAL=	MTBE 2L= 20 MCL= RAL= 1250	HRE Sent	Comments

Notes
All units in ug/l (ppb)
Above MDL Limit =
Above 2L Limit =
Above MCL Limit =
Above RAL =
Chloroform Below 2L =
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

Jay



ATC ASSOCIATES INC.
Raleigh, North Carolina 27604 (919) 871-0999 FAX (919) 871-0335

SCALE	DATE	PROJECT NO.
1"=300'	12-22-2010	45.03451.0015

TITLE **FIGURE 3**
POTABLE WELL LOCATION MAP
NEEDMORE GENERAL STORE
1921 BASS LAKE ROAD
FUQUAY-VARINA, NORTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY
125980.dwg		AW	GO

NOTES:
1. WELLS PW-0276, PW-4170, PW-9079, AND PW-9079C ARE NO LONGER IN USE.

NCDENR

North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director | Division of Waste Management | Beverly Eaves Purdue, Governor
Dee Freeman, Secretary

MEMORANDUM

Date: September 27, 2011

To: File

From: Vince Antrilli
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Inactive Hazardous Sites Branch

Re: Needmore General Store – Site Review Notes
NONCD000

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- Well ID 6128 will not meet alternate water requirements due to the level of contamination being between 2L and MCL
- Well Id 3636 ~~meets~~ met the contamination level criteria ~~and needs to be qualified for Bernard Allen Fund assistance~~ but is <MCL per last sampling 6/8/11.
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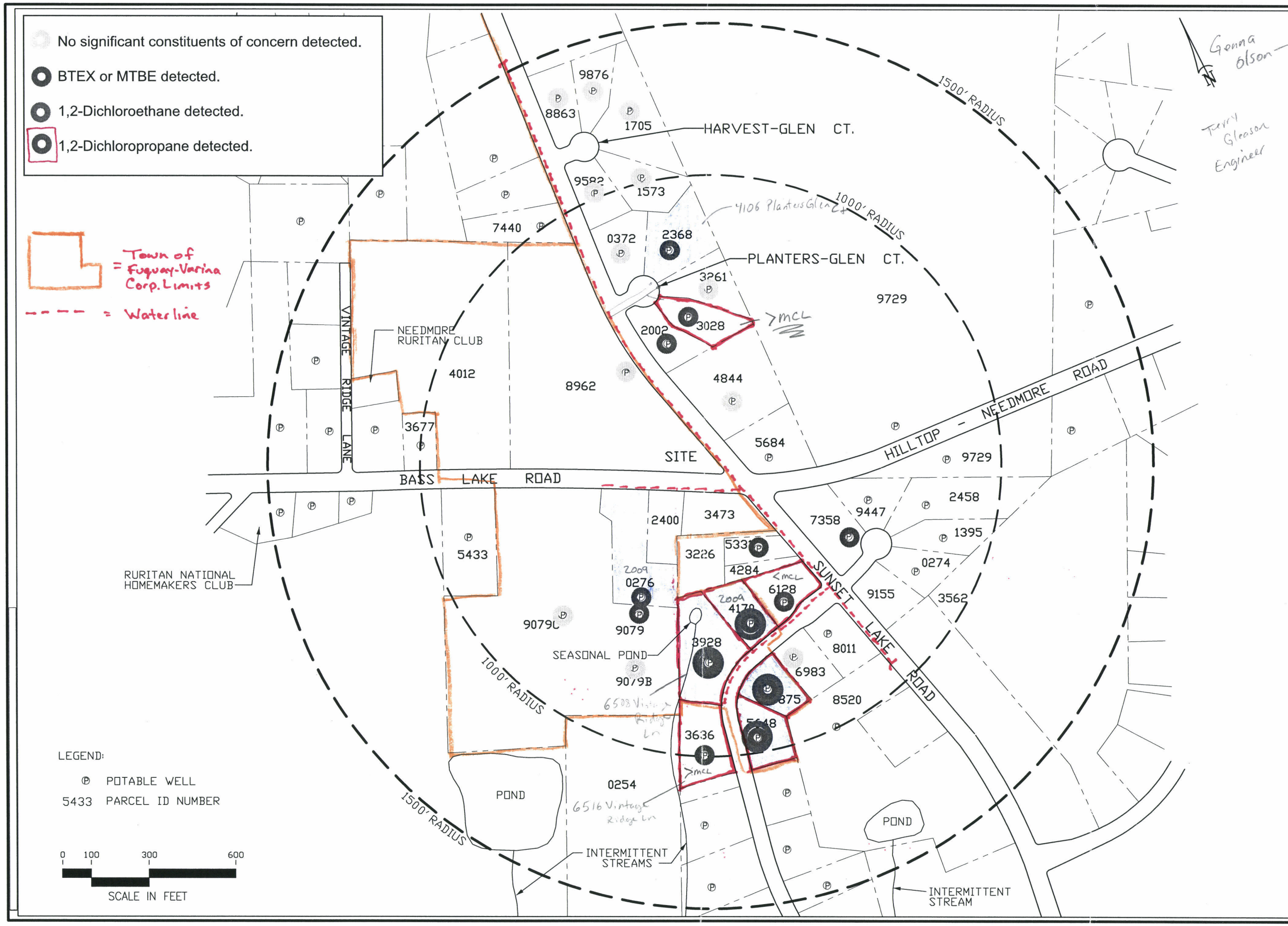


ATC ASSOCIATES INC.
Raleigh, North Carolina 27604 (919) 871-0999 FAX (919) 871-0335

PROJECT NO.	DATE	SCALE	REV. BY	PREP. BY	TYPE CODE	CAD FILE
45.03451.0015	12-22-2010	1"=300'	GO	AW		125980.dwg

TITLE **FIGURE 3**
POTABLE WELL LOCATION MAP
NEEDMORE GENERAL STORE
1921 BASS LAKE ROAD
FUGUAY-VARINA, NORTH CAROLINA

NOTES:
1. WELLS PW-0276, PW-4170, PW-9079, AND PW-9079C ARE NO LONGER IN USE.

PIN#0668 52 5648
N/F DEBOSKEY
6517 VINTAGE RIDGE LN
DB 10553; PG 643
BM1994-808

PIN#0668 52 5875
N/F FRAZIER
6509 VINTAGE RIDGE LN
DB 7205; PG 702
BM1994-808

PIN#0668 52 3636
N/F JONES
6516 VINTAGE RIDGE LN
DB 7413; PG 225
BM1994-808

VINTAGE RIDGE LANE

WELL

SEPTIC TANK LID

END PIPE
INV OUT 431.31

END PIPE
INV IN 431.65

CONCRETE DRIVEWAY

6"GV
2"BO

WELL

END PIPE
INV OUT 430.56

DRIVEWAY CONCRETE

END PIPE
INV IN 431.08

¾" METER
¾" CU FROM MAIN
TO METER

1" METER
1" CU FROM MAIN
TO METER

UNDERGROUND LP TANK

WELL

250 LF ±

END PIPE
INV OUT 437.32

TBM SPIKE IN ASPHALT
ELEV=434.98

NEW 6" RODDED GATE VALVE
AND 2" BLOW-OFF ASSEMBLY

NEW 225 LF
6" DIP WL

NEW HYD
ASSEMBLY

¾" METER
¾" CU FROM MAIN
TO METER

CONCRETE DRIVEWAY

6508 Vintage Ridge Ln

FVWLE
11 July 2011

VIA E-MAIL

XXXXX
XXXXX
XXXXX
XXXXX

Reference: **REQUEST FOR PROPOSAL**
Needmore General Store Waterline Extension Phase 2
Vintage Ridge Lane
Fuquay-Varina, NC 27526

Dear X:

Attached please find a set of PDF Construction Plans and Details for the above referenced waterline extension. Paper and AutoCAD copies are available upon request. The Stephenson V Family Limited Partnership, LLC is funding this project. We ask that you submit your proposal by **5:00 PM EDT on Wednesday, 27 July 2011.**

Address and deliver your proposal to:

Needmore General Store Waterline Extension Phase 2
c/o The Site Group, PLLC.
1111 Oberlin Road
Raleigh, NC 27605
Attention: Terry Gleason

The Construction Drawings and Details have approval from the town of Fuquay-Varina and are currently under review by NCDOT and NCDENR for permitting. Construction must conform to the Town of Fuquay-Varina, NCDOT, and NCDENR specifications and standards. The respective permits are expected by mid-August. Anticipated start date for construction is 1 September 2011.

We offer the following clarifications and stipulations for your benefit and use:

- The form of contract will be your standard form of agreement subject to the attached Construction Plans and Details and the clarifications in this Request For Proposal. The form of the contract should be a stipulated sum.
- We request that you complete the attached Schedule of Unit Bid Prices. This schedule will be used to process pay requests and change orders (if needed).
- Please be aware that road crossings for the water services must be installed by direct bore.
- A certificate of insurance will be required from the successful bidder.

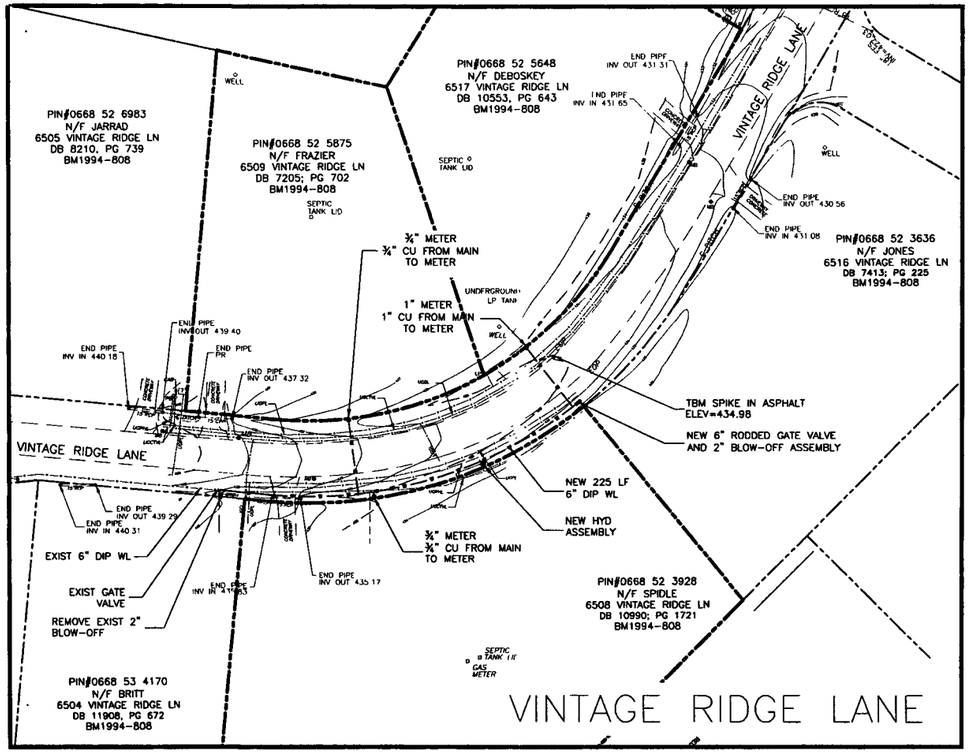
Please direct questions to Terry Gleason (tjg@id-aep.com). Questions and responses to all questions will be summarized and provided to all contractors prior to the time stipulated above for submitting proposals.

We look forward to receiving your proposal on Wednesday, 27 July.

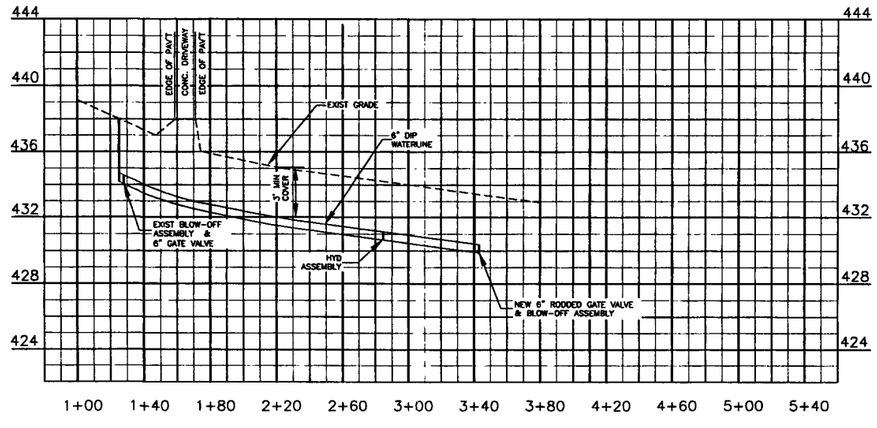
Terrence J. Gleason, RLA

The Site Group, LLC
1111 Oberlin Road
Raleigh, North Carolina 27605

Phone: 919-832-6658
Fax: 919-839-2255
www.thesitegroup.net



PLAN: 1"=40'
PROFILE: 1"=40' HORIZ.
1"= 4' VERT.



APPROVED
21 June 11

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18303 EDWIN F. SCONFIENZA
5/2/11

ISSUED FOR CONSTRUCTION

THE SITE GROUP PLLC
LANDSCAPE ARCHITECTURAL CORPORATION
CERT. NO 353
NORTH CAROLINA
RALEIGH, N.C.

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, PLLC.
1111 Oberlin Road
Raleigh, NC 27605-1136
919.832.6688 Fax: 919.839.2255
E Mail: efs@ldi-aep.com

Terry Gleason - engineer

DESCRIPTION
NEEDMORE GENERAL STORE
PHASE 2 WATERLINE EXTENSION
6508, 6509, 6517 VINTAGE RIDGE LN
4106 PLANTERS GLEN CT
FUQUAY-VARINA NC

Drawn By TJG
Checked By EFS

DATE:
2 MAY 2011

CONSTRUCTION DRAWINGS

NEEDMORE GENERAL STORE PHASE 2 WATERLINE EXTENSION

Job Code FVWLE

Dwg No.
ENGR
101

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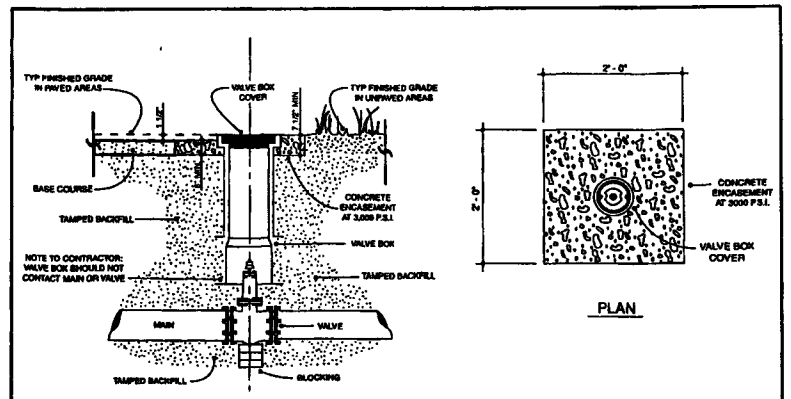
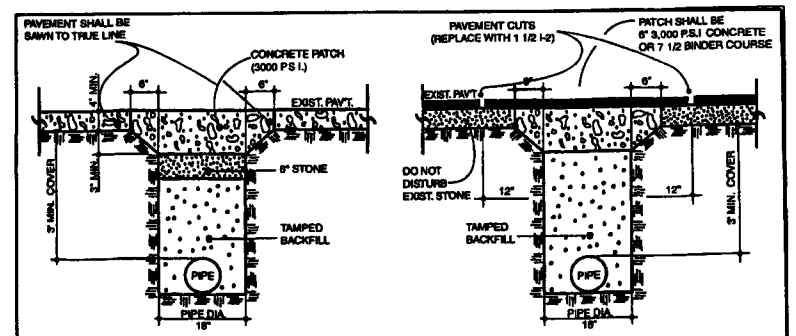


STANDARD VALVE BOX INSTALLATION

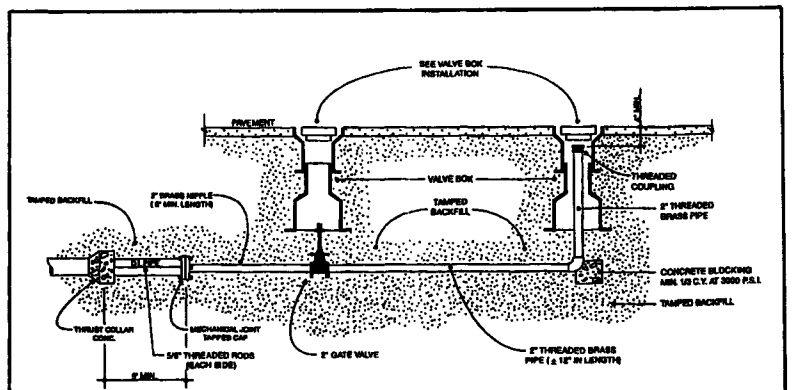
STD. NO. 6.07



NOTE TO CONTRACTOR:
ALL PAVEMENT CUTS SHALL BE REPAIRED WITHIN A MAXIMUM OF SEVEN (7) DAYS FROM THE DATE THE CUT IS MADE. IF CONDITIONS DO NOT PERMIT A PERMANENT REPAIR WITHIN THE GIVEN TIME LIMIT, PERMISSION TO MAKE A TEMPORARY REPAIR MUST BE OBTAINED FROM THE TOWN ENGINEER.

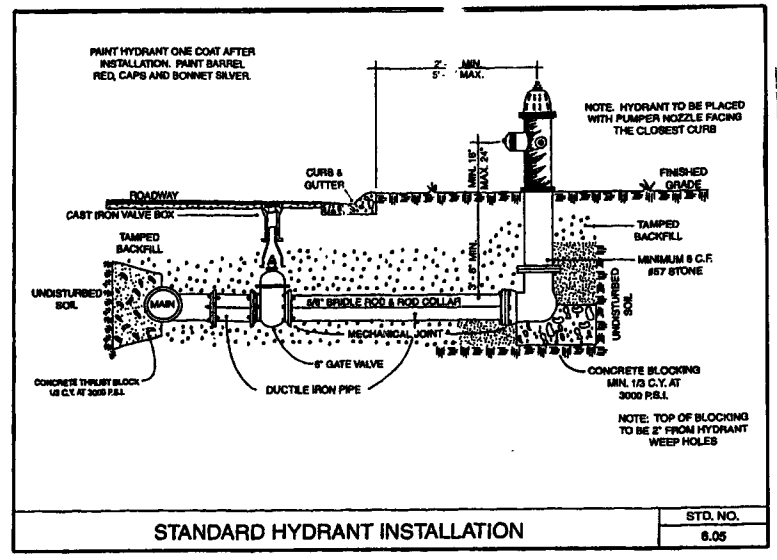
STANDARD TRENCH AND PAVEMENT RE. 'AIR SECTIONS

STD. NO. 3.03



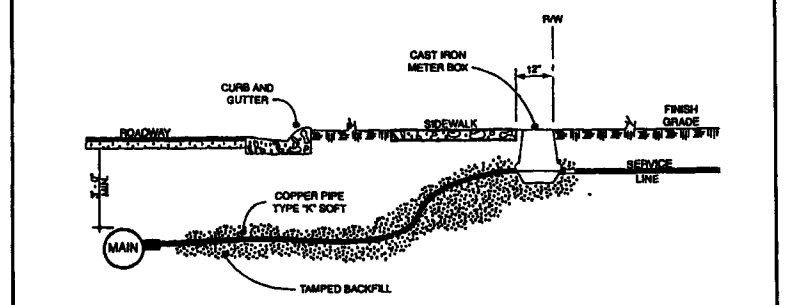
STANDARD 2" BLOW-OFF ASSEMBLY

STD. NO. 6.04



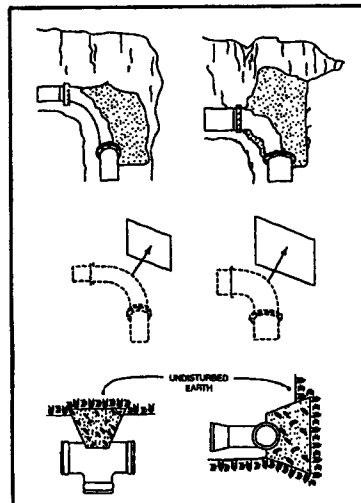
STANDARD HYDRANT INSTALLATION

STD. NO. 6.05



STANDARD 3/4" AND 1" METER BOX INSTALLATION

STD. NO. 6.01



MINIMUM CONCRETE BLOCKING (C.Y.) *

NOM. PIPE DIA IN.	TEES & DEAD ENDS	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	0.1	0.1	0.1	0.1	0.1
6	0.2	0.2	0.1	0.1	0.1
8	0.2	0.3	0.2	0.1	0.1
10	0.3	0.5	0.3	0.2	0.2
12	0.4	0.6	0.5	0.3	0.3
14	0.7	0.9	0.5	0.5	0.5
16	0.7	0.8	0.5	0.5	0.5
18	0.8	1.2	0.7	0.6	0.6
20	1.1	1.6	1.1	0.7	0.7
22	1.7	2.3	1.6	0.9	0.8

* CONCRETE SHALL BE 3000 P.S.I. MIX.

NOTE: WRAP FITTINGS IN 8 MIL PLASTIC BEFORE POURING CONCRETE

STANDARD REACTION BLOCKING

STD. NO. 6.11

APPROVED
Jay Mayo
21 June 11

THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • LAND PLANNERS
THE SITE GROUP, PLLC.
1111 Oberlin Road
Raleigh, NC 27605-1136
919.832.6658 Fax: 919.839.2255
E Mail: efs@ne-sep.com

THE SITE GROUP LANDSCAPE ARCHITECTURE CIVIL ENGINEERING LAND PLANNING CERT NO 353 NORTH CAROLINA P.O. BOX RALEIGH, NC

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA

5/27/11

DESCRIPTION
NEEDMORE GENERAL STORE
PHASE 2 WATERLINE EXTENSION
6508, 6509, 6517 VINTAGE RIDGE LN
FUQUAY-VARINA NC

Drawn By TJG
Checked By EFS

DATE:
2 MAY 2011

DETAILS

NEEDMORE GENERAL STORE PHASE 2 WATERLINE EXTENSION

Job Code FVWLE

Dwg No.
ENGR
102

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Needmore General Store Waterline Extension Phase 2 FVWLE
Vintage Ridge Lane
Fuquay-Varina, North Carolina 27526

SCHEDULE OF UNIT BID PRICES

CONTRACTOR: _____

NC LICENSE NO./CLASS _____

FUQUAY-VARINA BUSINESS
LICENSE NO. _____

DATE: _____

ITEM NO	ITEM DESCRIPTION	QUAN	UNIT	UNIT BID	BID AMOUNT
1	MOBILIZATION	1	L.S.	$	$
2	TRAFFIC CONTROL	1	L.S.	$	$
3	EROSION CONTROL	1	L.S.	$	$
4	CONSTRUCTION STAKING	1	L.S.	$	$
5	6" D.I.P. WATERLINE	225	LF	$	$
6	3/4" CU WATERLINE	50	LF	$	$
7	1" CU WATERLINE	40	LF	$	$
8	3/4" WATER METER	2	EA	$	$
9	1" WATER METER	1	EA	$	$
10	FIRE HYD ASSEMBLY				
	w/6" G.V. AND TEE	1	EA	$	$
11	6" G.V.	1	EA	$	$
12	2" BLOW-OFF ASSEMBLY	1	EA		
13	PAVEMENT RESTORATION	1	L.S.	$	$
14	FINE GRADING & SEEDING	1	L.S.	$	$

TOTAL BID: $ _____

Needmore General Store

Well ID#	Contaminants	Comments
9079	MTBE	DNQ for BAF No VOCs
3928	Benzene/MTBE/1,2DCP	UST + VOC's (No MCL / >MCL) (Being Connected)
5048	1,2DCP/1,2DCA	VOC's >MCL (Being connected) Why UST doing conn.?
5875	1,2DCP/1,2DCA	<MCL (Being Connected) Why?
0276	MTBE	>MCL (Being Connected) OK
4170	1,2DCP/1,2DCA	>MCL (Being Connected) Why UST doing?
* 6128	1,2DCP	<MCL
7358	BTEX	No MCL Why isn't UST doing?
2002	MTBE	<MCL (UST Trying to connect)
2368	MTBE	<MCL (Being Connected)
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~
* 3636	1,2DCP	VOC > MCL Not Addressed
* 3028	1,2DCP/1,2DCA/Benzene 1,2,3 TCP	VOC > MCL Not Addressed

NCDENR

North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director | Division of Waste Management | Beverly Eaves Purdue, Governor
Dee Freeman, Secretary

MEMORANDUM

Date: September 21, 2011

To: File

From: Vince Antrilli
Raleigh Regional Office
Inactive Hazardous Sites Branch

Re: Needmore General Store – Site Review Notes
NONCD000

- Site referred by UTS pursuant to UST Incident #22139.
  Mickey Roberts, UST Raleigh Regional Office (791-4200)
- There were 33 water supply wells within 1000ft of the site. 28 of the wells have been sampled in conjunction with the incident.
- RP connected several properties to public water as result of well contamination.
- Two residences connected in 2009. PW-4170 and PW-0276.
- One residence declined to be connected in 2009, PW-9079. Water tap and meter has been installed but house is not connected.
- Connections to four additional residences are being coordinated.
  PW-3928, PW-5875, PW-5648, PW-2368
- 2 other residences have wells contaminated with 1,2 Dichloropropane. PW-3028, PW-3636.
- It is unknown if the wells have been abandoned after water connections were made.
- It is unknown how many residents have been connected prior to the 2 in 2009 listed above.

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone 919-508-8400 \ FAX 919-733-4811 \ Internet http://wastenotnc.org
An Equal Opportunity / Affirmative Action Employer – Printed on Dual Purpose Recycled Paper

One NorthCarolina Naturally

TABLE 1
WATER SUPPLY WELL INFORMATION
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Property Location and Address	Owner's Name and Address	Land Use Parcel Identification Number	
Site 1921 Bass Lake Road Fuquay-Varina, NC	Stephenson V. Family LTD Partnership c/o Nancy Stephenson Young 8404 High Oak Drive Austin, Texas 78759-8165	Commercial / Residential Parcel ID # 0668.43.8962	
6340 Sunset Lake Road Fuquay-Varina, NC 27526	Clark, Jimmy R. And Jewel A. Heirs George M. Bullock 6520 Dornoch Pl Fuquay-Varina, NC 27526-9005	Residential Parcel ID # 0688.43.7440	
1837 Bass Lake Road Fuquay-Varina, NC 27526	Oliver, Alfred Brink 1833 Bass Lake Road Fuquay-Varina, NC 27526-9075	Residential Parcel ID # 0688.43.4012	
6437 Sunset Lake Road Fuquay-Varina, NC 27526	Currin, Tony A. & Johanna P. Cumalander 848 Arboretum Drive Wilmington, North Carolina 28405-5222	Residential Parcel ID # 0668.53.5684	
6429 Sunset Lake Road Fuquay-Varina, NC 27526	Tonya) 848 Arboretum Drive Wilmington, North Carolina 28405-5222	Residential Parcel ID # 0668.53.4844	
4109 Planters Glen Court Fuquay-Varina, NC 27526	Morman, Janet 4109 Planters Glen Court Fuquay-Varina, NC 27526-8670	Residential Parcel ID # 0668.54.2002	
4108 Planters Glen Court Fuquay-Varina, NC 27526	Nixon, Earl & Bernice McEachin 4108 Planters Glen Court Fuquay-Varina, NC 27526-8670	Residential Parcel ID # 0668.54.0372	
1912 Bass Lake Road Fuquay-Varina, NC 27526	Thomas, Julian Durwood 1912 Bass Lake Road Fuquay-Varina, NC 27526-9076	Residential Parcel ID # 0668.43.9079**	ATC INSTALLED WATER METER BUT FINAL CONNECTION TO RESIDENCE NOT PERFORMED AT THE REQUEST OF THE
1916 Bass Lake Road* Fuquay-Varina, NC 27526	Eugene* 108 Falcon Dr. Fuquay-Varina, NC 27526-2017	Residential* Parcel ID # 0668.53.0276 (Well no longer in use)	CONNECTED BY ATC
1833 Bass Lake Road Fuquay-Varina, NC 27526	Oliver, Alfred Brink Heirs George M. Bullock 6520 Dornoch Pl Fuquay-Varina, NC 27526-9005	Residential Parcel ID # 0668.43.3677	
6408 Vintage Ridge Lane Fuquay-Varina, NC27526	Thompson, Leonard J. & Karen C. 6408 Vintage Ridge Lane Fuquay-Varina, North Carolina 27526-7557	Residential Parcel ID # 0668.53.7358	

Notes:

1. * = The potable well on parcel 0668.53.0276 also supplies water for parcels 0668.53.2400 and 0668.53.3473.
2. ** = Three potable wells are located on parcel 0668.43.9079 which have been entitled 9079, 9079B, and 9079C. Well 9079B contains septic impact and is no longer in use. Well 9079 contains MTBE impact and is no longer in use. Well 9079C is the well

TABLE 1
WATER SUPPLY WELL INFORMATION
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Property Location and Address	Owner's Name and Address	Land Use Parcel Identification Number	
6409 Vintage Ridge Lane Fuquay-Varina, NC 27526	Ryan, Thomas A. & Tari L. 6409 Vintage Ridge Lane Fuquay-Varina, NC 27526-7557	Residential Parcel ID # 0668.53.9155	
6500 Vintage Ridge Lane Fuquay-Varina, NC 27526	Sgroi, Stephen F. & Jodi L. 6500 Vintage Ridge Lane Raleigh, North Carolina 27606-7540	Residential Parcel ID # 0668.53.6128	NOT CONNECTED AND NO CONNECTION PLANNED BY ATC, BUT 1,2-DCP DETECTED
6504 Vintage Ridge Lane Fuquay-Varina, NC 27526	Britt, Donnie K. Patrick 6504 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.53.4170 (Well no longer in use)	CONNECTED BY ATC
6505 Vintage Ridge Lane Fuquay-Varina, NC 27526	Jarrad, Marc & Joan 6505 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.52.6983	
6517 Vintage Ridge Lane Fuquay-Varina, NC 27526	Deboskey, David H. & Cindy S. 6517 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.52.5648	CONNECTION UNDERWAY BY ATC
6506 Sunset Lake Road Fuquay-Varina, NC 27526	Williams, Patricia P. 1305 Bass Lake Road Holly Springs, NC 27540-9077	Residential Parcel ID # 0668.53.5331*	
6516 Vintage Ridge Lane Fuquay-Varina, NC 27526	Jones, Donald P. Sr & Vicky H. 6516 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.52.3636	NOT CONNECTED AND NO CONNECTION PLANNED BY ATC, BUT 1,2-DCP DETECTED
4109 Harvest Glen Court Fuquay-Varina, NC 27526	Evan Glen LLC P.O. Box 1055 Fuquay-Varina, NC 27526-1055	Residential Parcel ID # 0668.44.9582	
4105 Harvest Glen Court Fuquay-Varina, NC 27526	Evan Glen LLC P.O. Box 1055 Fuquay-Varina, NC 27526-1055	Residential Parcel ID # 0668.54.1573	
4106 Planters Glen Court Fuquay-Varina, NC 27526	Hart, Timmy Ray & Hope Prim 4106 Planters Glen Court Fuquay-Varina, NC 27526-8670	Residential Parcel ID # 0668.54.2368	CONNECTION UNDERWAY BY ATC
4105 Planters Glen Court Fuquay-Varina, NC 27526	McDermott, Jefferey R. 4105 Planters Glen Court Fuquay-Varina, NC 27526-8670	Residential Parcel ID # 0668.54.3028	NOT CONNECTED AND NO CONNECTION PLANNED BY ATC, BUT 1,2-DCP DETECTED

Notes:

1. * = The potable well located on the south side of the house collapsed and a new well was installed in the rear of the property in February 2005.

TABLE 1
WATER SUPPLY WELL INFORMATION
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Property Location and Address	Owner's Name and Address	Land Use Parcel Identification Number	
4101 Planters Glen Court Fuquay-Varina, NC 27526	Smiley, Karen J. P. O. Box 37545 Raleigh, North Carolina 27627-7545	Residential Parcel ID # 0668.54.3261	
6508 Vintage Ridge Lane Fuquay-Varina, NC 27526	Spidle, R. James & Deborah P. 6508 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.52.3928	CONNECTION UNDERWAY BY ATC
5744 Hilltop Needmore Road Fuquay-Varina, NC 27526	Ransdell, W.G. Heirs % Phillip C. Ransdell 111 East Lakeside Drive Fuquay-Varina, NC 27526-2357	Residential Parcel ID # 0668.54.9729	
1828 Bass Lake Road Fuquay-Varina, NC 27526	Sawyer, George W. &Patsy M. 1828 Bass Lake Road Fuquay-Varina, NC 27526-9074	Residential Parcel ID # 0668.43.5433 *	
6400 Vintage Ridge Lane Fuquay-Varina, NC 27526	Culbertson, Deborah L & Scott W. 6400 Vintage Ridge Lane Fuquay-Varina, NC 27526-7557	Residential Parcel ID # 0668.63.2458	
6401 Vintage Ridge Lane Fuquay-Varina, NC 27526	Nottingham, Jeffery C. & Sleet, Virginia M. 6401 Vintage Ridge Lane Fuquay-Varina, NC 27526-7557	Residential Parcel ID # 0668.63.1395	
6405 Vintage Ridge Lane Fuquay-Varina, NC 27526	Barbour, William C., Jr. 6405 Vintage Ridge Lane Fuquay-Varina, NC 27526-7557	Residential Parcel ID # 0668.63.0274	
6501 Vintage Ridge Lane Fuquay-Varina, NC 27526	Zhitova, Olgan N. & Sergey 6501 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.53.8011	
6540 Sunset Lake Road Fuquay-Varina, NC 27526	Faucette, Robert J., Sr. & Taylor B. 6532 Sunset Lake Road Fuquay-Varina, NC 27526-7560	Residential Parcel ID # 0668.52.8520	
6509 Vintage Ridge Lane Fuquay-Varina, NC 27526	Frazier, Robert E. & Palina M. 6509 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.52.5875	CONNECTION UNDERWAY BY ATC
6404 Vintage Ridge Lane Fuquay-Varina, NC 27526	Carter, Charles W. Jr. 6404 Vintage Ridge Lane Fuquay-Varina, NC 27526-7577	Residential Parcel ID # 0668.53.9447	

Notes:

1. * = The potable well located on Mr. Sawyer's property ran dry and a new well was installed in September 2004.

MCL 5ppb

NCDENR

North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue, Governor

Division of Waste Management
Underground Storage Tank Section

Dee Freeman, Secretary

August 19, 2011

AUG 23 2011

MEMORANDUM

TO: John Walch, Inactive Site Branch

THROUGH: Mark R. Powers, UST Section Raleigh Regional Office Supervisor MRP

FROM: Mickey Roberts, Raleigh Regional Office Incident Manager MR

SUBJECT: Needmore General Store, UST Incident #22139 - Presence of 1, 2-Dichloropropane in Area Water Supply Wells at the Intersection of Sunset Lake Road, Bass Lake Road and Hilltop-Needmore Road in Fuquay- Varina, Wake County

Please find the attached historical water supply well sample results from the area surrounding the UST Incident #22139 - Needmore General Store. As part of the groundwater monitoring at the site a total of 28 water supply wells have been sampled. There are approximately 15 water supply wells currently being sampled on a quarterly basis. Approximately 33 water supply wells are located within a 1,000ft. radius of the site. The responsible party for the UST release has completed water connections for several properties which were previously served by impacted water supply wells. Connections were completed for PW-4170 and PW-0276 in 2009. A water meter has been installed at PW-9079 but the resident chose not to connect and still utilizes water supply well PW-9079. Water connections are currently being worked on for four additional properties PW-3928, PW-5875, PW-5648 and PW-2368. Based on historical sample data it appears that 1, 2-dichloropropane has been detected in a total of 6 water supply wells to date. The source of the 1, 2-dichloropropane found in the area water supply wells appears to be a result of agricultural use in the area and the UST Section cannot hold the responsible party liable for continued water connections when this is the only contaminant of concern. Given this information the UST Section is asking for your assistance in this matter. Please contact us if you have any questions or need any further information.

Attachment:
Table 5 – Recent Potable Well Analytical Data
Table 6 - Historical Potable Well Analytical Data
Figure 3 – Potable Well Location Map
Table 1- Water Supply Well Information

cc: Jim Bateson – Site Evaluation & Removal Branch, Superfund
Genna Oslon, P.G.
ATC Associates of NC, P.C.
2725 East Millbrook Road
Suite 121
Raleigh, NC 27604

ph# 871-0999

① 5 out of six wells exceed the 5ppb MCL for 1,2 Dichloropropane

there are
1) well - 3928 + 0.3636
Connections being worked on. - 5648
- 4170 on water
- 3028 Need water connection

TABLE 5
RECENT POTABLE WELL ANALYTICAL DATA
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Analytical Method		SM 6200 B											
Contaminant of Concern →		Benzene	Total Xylenes	MTBE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3- Dichloropropane	1,2- Dichloropropane	1,2-Dichloroethane	1,1-Dichloroethane	1,2,3-Trichloropropane	Chloromethane	Tetrachloroethene
Well ID	Date Collected												
0668.54.3028	6/08/2011	**2.6**	0.82	<0.2	<0.1	<0.1	0.11	**9.1**	**1.2**	0.11	**0.52**	<0.1	<0.2
0668.54.3261	6/08/2011	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2
0668.54.2368	6/08/2011	<0.1	<0.1	2.9	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2
0668.54.0372	6/08/2011	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2
0668.43.8962	6/08/2011	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.2	0.36	<0.1
0668.53.4844	6/08/2011	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1
0668.53.5331	6/08/2011	<0.1	<0.2	<0.1	0.37	0.55	<0.1	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1
0668.53.7358	6/08/2011	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1
0668.53.6128	6/08/2011	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	**1.0**	<0.2	<0.1	<0.2	<0.1	<0.1
0668.52.3928	6/08/2011	<0.1	<0.2	0.44	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1
0668.52.5648	6/08/2011	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	**4.9**	<0.2	<0.1	<0.2	<0.1	**0.41**
0668.52.5875	6/08/2011	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	**2.2**	<0.2	<0.1	<0.2	<0.1	**0.27**
0668.52.6983	6/08/2011	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2
0668.54.2002	6/08/2011	<0.1	<0.2	6.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1
0668.52.3636	6/08/2011	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	**5.3**	<0.2	<0.1	<0.1	<0.1	<0.2
2L Standard		**1**	**500**	**20**	**400**	**400**	**NE**	**0.6**	**0.4**	**6**	**0.005**	**3**	**0.7**
GCL		**5,000**	**85,500**	**20,000**	**28,500**	**25,000**	**NE**	**600**	**400**	**6,000**	**NE**	**3,000**	**700**

Notes:

1. All concentrations reported in micrograms per liter (µg/L).
2. "<" or ND = None detected above method detection limit.
3. NC 2L GW Std. = Title 15A NCAC 2L .0202 Groundwater Standard
4. GCL = Gross Contaminant Level established by NCDENR.
5. NE = Not established.
6. Values in **BOLD** indicate levels above 2L Groundwater Standards.

TABLE 6
HISTORICAL POTABLE WELL ANALYTICAL DATA
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Contaminant of Concern →		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	1,2 Dichloropropane	1,2 Dichloroethane
Well ID	**Date Collected (m/dd/yy)**								
Residential Potable Well	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
Parcel ID # 0668.43.9079	11/21/2008	<0.1	<0.1	<0.1	<0.1	ND	3.2	<0.1	<0.2
	7/22/2008	<1	<1	<1	<1	ND	**31**	<1	<1
Tap made,	2/18/2008	<1	<1	<1	<1	ND	<1	<1	<1
	9/19/2007	<1	<5	<5	<5	ND	**28**	<1	<1
Owner Declined	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	3/14/2007	<1	<5	<5	<5	ND	**50**	<1	<1
to connect to	12/7/2006	<1	<5	<5	<5	ND	**42**	<1	<1
	9/8/2006	<1	<5	<5	<5	ND	**71**	<1	<1
Public Water	6/21/2006	<1	<5	<5	<5	ND	**65**	<1	<1
	2/28/2006	<1	<1	<1	<1	ND	**77**	<1	<1
	12/6/2005	<1	<1	<1	<1	ND	**53**	<1	<1
	8/26/2005	<1	<5	<5	<5	ND	**55**	<1	<1
	5/18/2005	<1	<1	<1	<1	ND	**50**	<1	<1
	2/18/2005	<0.5	<1	<1	<1	ND	**40**	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	**27**	<1	<1
	2/3/2004	<0.5	<1	<1	<1	ND	**25**	<1	<1
	10/22/2003	<0.5	<1	<1	<1	ND	**30**	<1	<1
	7/22/2003	<0.5	<1	<1	<1	ND	7	<1	<1
	4/23/2003	<0.5	<1	<1	<1	ND	**40**	<1	<1
	9/9/2002	<0.5	<1	<1	<1	ND	**20**	<1	<1
Residential Potable Well	8/26/2005	<1	<5	<5	<5	ND	<5	<1	<1
Parcel ID # 0668.43.9079B	5/20/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well	8/24/2009	<0.1	0.2	<0.1	<0.1	ND	0.2	<0.1	<0.2
Parcel ID # 0668.43.9079C	3/9/2009	0.1	<0.1	<0.1	<0.1	ND	0.2	<0.1	<0.2
Residential Potable Well	6/8/2011	0.1	<0.1	0.2	0.2	ND	0.44	<0.1	0.2
Parcel ID # 0668.52.3928	3/10/2011	<0.1	0.1	0.1	<0.1	ND	0.2	<0.2	0.2
	12/1/2010	**1.8**	0.1	0.1	0.22	2.02	0.2	**8.4**	**1**
	8/22/2010	**1.6**	<0.1	0.1	0.54	2.14	0.2	**6.8**	0.2
	4/30/2010	**1.1**	0.1	0.1	0.17	1.27	0.2	**5.4**	**2**
	12/23/2009	0.46	<0.1	0.1	0.14	0.6	0.2	**3.5**	**0.69**
	8/24/2009	0.32	0.2	0.1	<0.1	ND	0.2	**3**	**0.54**
	3/9/2009	0.53	0.1	<0.1	<0.1	ND	0.2	**3.9**	**0.76**
	11/21/2008	0.1	<0.1	0.1	<0.1	ND	0.2	**2.7**	<0.2
	7/23/2008	<1	<1	<1	<1	ND	<1	**3.6**	<1
	2/18/2008	<1	<1	<1	<1	ND	<1	**3**	**1**
	9/19/2007	<1	<5	<5	<5	ND	<5	**1.8**	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	3/14/2007	<1	<5	<5	<5	ND	<5	**1.6**	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	**1.6**	<1
	9/8/2006	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2006	<1	<5	<5	<5	ND	<5	**1.4**	<1
	2/28/2006	<1	<1	<1	<1	ND	<1	**1.2**	<1
	12/6/2005	<1	<1	<1	<1	ND	<1	<1	<1
	8/26/2005	<1	<5	<5	<5	ND	<5	<1	<1
	5/17/2005	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2005	<0.5	<1	<1	<1	ND	<5	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	1/28/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	10/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	7/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	4/16/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	1/17/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
2L Standard		**1**	**600**	**600**	**500**	**NE**	**20**	**0.6**	**0.4**

(1)

TABLE 6
HISTORICAL POTABLE WELL ANALYTICAL DATA
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Contaminant of Concern →		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	1,2 Dichloropropane	1,2 Dichloroethane
Well ID	**Date Collected (m/dd/yy)**								
Residential Potable Well Parcel ID # 0668.52.5648	6/8/2011	<0.1	<0.1	<0.2	<0.2	ND	<0.1	**4.9**	<0.2
	3/10/2011	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**4.2**	**0.57**
	12/1/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**5.1**	**1.1**
6517 Vintage Ridge Ln	8/22/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**4.8**	**1.1**
	4/30/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**3.6**	**2.1**
	12/23/2009	<0.1	<0.1	<0.1	0.2	0.2	<0.2	**4.4**	**1.1**
	8/24/2009	<0.1	<0.2	<0.1	<0.1	ND	<0.2	**4.4**	**1.1**
	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**4.1**	<0.2
	11/21/2008	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**3.7**	<0.2
	7/23/2008	<1	<1	<1	<1	ND	<1	**3.9**	**1.2**
	2/18/2008	<1	<1	<1	<1	ND	<1	**2.6**	**1.1**
	9/19/2007	<1	<5	<5	<5	ND	<5	**2.3**	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	**1.5**	<1
	6/21/2006	<1	<5	<5	<5	ND	<5	**1.6**	<1
	12/6/2005	<1	<1	<1	<1	ND	<1	<1	**2.7**
	8/26/2005	<1	<5	<5	<5	ND	<5	<1	**1.2**
	5/17/2005	<1	<1	<1	<1	ND	<1	**2.8**	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	1/28/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	10/22/2003	<0.5	<1	<1	<1	ND	<5	**1**	<1
	7/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	5/20/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.52.5875	6/8/2011	<0.1	<0.1	<0.2	<0.2	ND	<0.1	**2.2**	<0.2
	3/10/2011	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**2.2**	<0.2
	12/1/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**2.3**	**0.6**
6509 Vintage Ridge Ln	8/22/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**2.2**	**0.56**
	4/30/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**2**	**1.8**
	12/23/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**2**	**0.59**
	8/24/2009	<0.1	<0.2	<0.1	<0.1	ND	<0.2	**2.1**	**0.59**
	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**2**	**0.57**
	11/21/2008	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**2.1**	<0.2
	7/23/2008	<1	<1	<1	<1	ND	<1	**2.2**	<1
	2/18/2008	<1	<1	<1	<1	ND	<1	**2.1**	<1
	9/19/2007	<1	<5	<5	<5	ND	<5	**1.5**	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	**1.5**	<1
	6/21/2006	<1	<5	<5	<5	ND	<5	**2**	<1
	3/20/2006	<1	<5	<5	<5	ND	<5	<1	<1
	5/17/2005	<1	<1	<1	<1	ND	<1	**2.1**	<1
	3/30/2005	<0.5	<1	<1	<1	ND	<5	<1	<1
	2/18/2005	<0.5	<1	<1	<1	ND	<5	**1**	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	1/28/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	10/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	7/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	4/16/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
2L Standard		**1**	**600**	**600**	**500**	**NE**	**20**	**0.6**	**0.4**

TABLE 6
HISTORICAL POTABLE WELL ANALYTICAL DATA
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Contaminant of Concern →		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	1,2 Dichloropropane	1,2 Dichloroethane
Well ID	**Date Collected (m/dd/yy)**								
Residential Potable Well Parcel ID # 0668.52.6983	6/8/2011	<0.1	<0.2	<0.1	<0.1	ND	0.2	<0.1	<0.2
	3/10/2011	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	12/1/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	8/22/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	4/30/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	12/23/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	8/24/2009	<0.1	<0.2	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	11/21/2008	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	7/23/2008	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2008	<1	<1	<1	<1	ND	<1	<1	<1
	9/19/2007	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2006	<1	<5	<5	<5	ND	<5	<1	<1
	5/17/2005	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2005	<0.5	<1	<1	<1	ND	<5	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	1/28/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	10/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	7/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	4/16/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.53.0276	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	12	<0.1	<0.2
	11/21/2008	<0.1	<0.1	<0.1	<0.1	ND	12	<0.1	<0.2
	7/22/2008	<1	<1	<1	<1	ND	**23**	<1	<1
	2/18/2008	<1	<1	<1	<1	ND	**34**	<1	<1
	9/19/2007	<1	<5	<5	<5	ND	**23**	<1	<1
	6/21/2007	<1	<5	<5	<5	ND	**68**	<1	<1
	3/14/2007	<1	<5	<5	<5	ND	**54**	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	<1	<1
	9/8/2006	<1	<5	<5	<5	ND	**100**	<1	<1
	6/21/2006	<1	<5	<5	<5	ND	**60**	<1	<1
	2/28/2006	<1	<1	<1	<1	ND	**84**	<1	<1
	12/6/2005	<1	<1	<1	<1	ND	**87**	<1	<1
	8/26/2005	<1	<5	<5	<5	ND	**52**	<1	<1
	5/18/2005	<1	<1	<1	<1	ND	**21**	<1	<1
	2/18/2005	<0.5	<1	<1	<1	ND	**40**	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	**36**	<1	<1
	1/28/2004	<0.5	<1	<1	<1	ND	**26**	<1	<1
	10/22/2003	<0.5	<1	<1	<1	ND	**25**	<1	<1
	7/22/2003	<0.5	<1	<1	<1	ND	18	<1	<1
	4/23/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	9/4/2002	<0.5	<1	<1	<1	ND	17	<1	<1
	8/2/2002	<0.5	<1	<1	<1	ND	**20**	<1	<1
	2/14/2002	<0.5	<1	<1	<1	ND	<5	<1	<1
	8/20/2001	<0.5	<1	<1	<1	ND	<5	<1	<1
2L Standard		**1**	**600**	**600**	**500**	**NE**	**20**	**0.6**	**0.4**

Connected to Public Water by UST

TABLE 6
HISTORICAL POTABLE WELL ANALYTICAL DATA
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Contaminant of Concern → / Well ID	Date Collected (m/dd/yy)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	1,2 Dichloropropane	1,2 Dichloroethane
Residential Potable Well	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**33**	**5.2**
Parcel ID # 0668.53.4170	11/21/2008	0.4	<0.1	<0.1	0.29	0.69	<0.2	**43**	**6.4**
	7/23/2008	<1	<1	<1	<1	ND	<1	**43**	**6.2**
Connected to Public Water by UST	2/18/2008	<1	<1	<1	<1	ND	<1	**35**	7.1
	9/19/2007	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	3/14/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	**26**	**2.7**
	9/8/2006	<1	<5	<5	<5	ND	<5	**22**	**5.1**
	6/21/2006	<1	<5	<5	<5	ND	<5	**29**	**6.2**
	2/28/2006	<1	<1	<1	<1	ND	<1	<1	<1
	12/6/2005	<1	<1	<1	<1	ND	<1	<1	<1
	8/26//05	<1	<5	<5	<5	ND	<5	**18**	**4.8**
	5/17/2005	<1	<1	<1	<1	ND	<1	**20**	**5.1**
	2/18/2005	<0.5	<1	<1	<1	ND	<5	**9**	**3**
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	2/3/2004	<0.5	<1	<1	<1	ND	<5	**12**	**3**
	10/22/2004	<0.5	<1	<1	<1	ND	<5	**21**	**3**
	7/22/2003	<0.5	<1	<1	<1	ND	<5	**7**	<1
	4/16/2003	<0.5	<1	<1	<1	ND	<5	**9**	**2**
	1/27/2003	<0.5	<1	<1	<1	ND	<5	**2**	**2**
	1/7/2003	<0.5	<1	<1	<1	ND	<5	**2**	**2**
	2/14/2002	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well	6/8/2011	<0.1	<0.1	<0.2	<0.2	ND	<0.1	<0.1	<0.2
Parcel ID # 0668.53.4844	12/1/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	8/22/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	4/30/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	12/23/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	8/24/2009	<0.1	<0.2	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	11/21/2008	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	7/22/2008	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2008	<1	<1	<1	<1	<1	<1	<1	<1
	9/19/2007	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	3/14/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	<1	<1
	9/8/2006	<1	<5	<5	<5	ND	<5	<1	<1
	6/20/2006	<1	<5	<5	<5	ND	<5	<1	<1
	2/28/2006	<1	<1	<1	<1	ND	<1	<1	<1
	12/6/2005	<1	<1	<1	<1	ND	<1	<1	<1
	8/24/2005	<1	<5	<5	<5	ND	<5	<1	<1
	5/18/2005	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2005	<0.5	<1	<1	<1	ND	<5	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	1/28/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	10/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	7/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	4/23/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	9/4/2002	<0.5	<1	<1	<1	ND	<5	<1	<1
	8/2/2002	<0.5	2	<1	<1	2	<5	<1	<1
	2/14/2002	<0.5	<1	<1	<1	ND	<5	<1	<1
	8/20/2001	<0.5	<1	<1	<1	ND	<5	<1	<1
2L Standard		**1**	**600**	**600**	**500**	**NE**	**20**	**0.6**	**0.4**

TABLE 6
HISTORICAL POTABLE WELL ANALYTICAL DATA
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Contaminant of Concern →		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	1,2 Dichloropropane	1,2 Dichloroethane
Well ID	**Date Collected (m/dd/yy)**								
Residential Potable Well Parcel ID # 0668.53.5331	6/8/2011	<0.1	<0.1	<0.2	<0.2	ND	0.1	<0.1	<0.2
	3/10/2011	<0.1	0.1	<0.1	<0.1	ND	0.2	<0.2	<0.2
	12/1/2010	<0.1	0.1	0.1	0.22	0.22	0.2	<0.2	<0.2
	8/26/2010	<0.1	<0.1	<0.1	<0.1	ND	0.2	<0.1	<0.2
	4/30/2010	<0.1	<0.1	<0.1	0.1	ND	0.2	<0.1	<0.2
	12/23/2009	<0.1	<0.1	<0.1	<0.1	ND	0.2	<0.1	<0.2
	8/24/2009	<0.1	<0.2	<0.1	<0.1	ND	0.2	<0.1	<0.2
	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	0.2	<0.1	<0.2
	11/21/2008	<0.1	<0.1	<0.1	<0.1	ND	0.2	<0.1	<0.2
	7/23/2008	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2008	<1	<1	<1	<1	ND	<1	<1	<1
	9/19/2007	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	3/14/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	<1	<1
	9/8/2006	<1	<5	<5	<5	ND	<5	<1	<1
	6/20/2006	<1	<5	<5	<5	ND	<5	<1	<1
	2/28/2006	<1	<1	<1	<1	ND	<1	<1	<1
	12/6/2005	<1	<1	<1	<1	ND	<1	<1	<1
	8/26/2005	<1	<5	<5	<5	ND	<5	<1	<1
	5/18/2005	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2005	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	1/28/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	10/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	7/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	4/16/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	1/7/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.53.6128	6/8/2011	<0.1	<0.1	<0.2	<0.2	ND	0.1	**1.0**	<0.2
	3/10/2011	<0.1	<0.1	<0.1	<0.1	ND	0.2	<0.2	<0.2
	12/1/2010	<0.1	<0.1	<0.1	<0.1	ND	0.2	**0.72**	<0.2
	8/22/2010	<0.1	<0.1	<0.1	<0.1	ND	0.2	**0.66**	<0.2
	4/30/2010	<0.1	<0.1	<0.1	<0.1	ND	0.2	<0.1	<0.2
	12/23/2009	<0.1	<0.1	<0.1	<0.1	ND	0.2	0.47	<0.2
	8/24/2009	<0.1	<0.2	<0.1	<0.1	ND	0.2	0.55	<0.2
	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	0.2	0.51	<0.2
	11/21/2008	<0.1	<0.1	<0.1	<0.1	ND	0.2	<0.1	<0.2
	7/23/2008	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2008	<1	<1	<1	<1	ND	<1	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2006	<1	<5	<5	<5	ND	<5	<1	<1
	5/17/2005	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2005	<0.5	<1	<1	<1	ND	<5	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	1/28/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	10/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	7/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	4/16/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
2L Standard		**1**	**600**	**600**	**500**	**NE**	**20**	**0.6**	**0.4**

TABLE 6
HISTORICAL POTABLE WELL ANALYTICAL DATA
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Contaminant of Concern →		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	1,2 Dichloropropane	1,2 Dichloroethane
Well ID	Date Collected (m/dd/yy)								
Residential Potable Well Parcel ID # 0668.53.7358	6/8/2011	<0.1	<0.1	<0.2	<0.2	ND	<0.1	<0.1	<0.2
	3/10/2011	<0.1	35	1.6	5.9	42.5	<0.2	<0.1	<0.2
	12/1/2010	<0.1	27	1.2	1.44	29.64	<0.2	<0.1	<0.2
	8/22/2010	<0.1	30	1.1	0.94	32.04	<0.2	<0.1	<0.2
	4/30/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	12/23/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	8/24/2009	<0.1	<0.2	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	11/21/2008	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	7/23/2008	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2008	<1	<1	<1	<1	ND	<1	<1	<1
	9/19/2007	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	<1	<1
	6/20/2006	<1	<5	<5	<5	ND	<5	<1	<1
	5/18/2005	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2005	<0.5	<1	<1	<1	ND	<5	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	10/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	4/23/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.53.9447	5/20/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.54.2002	6/8/2011	<0.1	<0.1	<0.2	<0.2	ND	6.5	<0.1	<0.2
	3/10/2011	<0.1	<0.1	<0.1	<0.1	ND	3.3	<0.2	<0.2
	12/1/2010	<0.1	<0.1	<0.1	<0.1	ND	3.8	<0.1	<0.2
	8/22/2010	<0.1	<0.1	<0.1	<0.1	ND	12	<0.1	<0.2
	4/30/2010	<0.1	<0.1	<0.1	<0.1	ND	9.6	<0.1	<0.2
	3/9/2008	<0.1	<0.1	<0.1	<0.1	ND	8.5	<0.1	<0.2
	11/21/2008	<0.1	<0.1	<0.1	<0.1	ND	4.8	<0.1	<0.2
	7/22/2008	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2008	<1	<1	<1	<1	ND	7.7	<1	<1
	9/19/2007	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2007	<1	<5	<5	<5	ND	9.1	<1	<1
	3/14/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	11	<1	<1
	9/8/2006	<1	<5	<5	<5	ND	<5	<1	<1
	6/20/2006	<1	<5	<5	<5	ND	9.3	<1	<1
	2/28/2006	<1	<1	<1	<1	ND	12	<1	<1
	12/6/2005	<1	<1	<1	<1	ND	4.3	<1	<1
	8/24/2005	<1	<5	<5	<5	ND	5.7	<1	<1
	5/18/2005	<1	<1	<1	<1	ND	**29**	<1	<1
	2/18/2005	<0.5	<1	<1	<1	ND	<5	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	2/12/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	1/28/2004	<0.5	<1	<1	<1	ND	8	<1	<1
	7/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
2L Standard		**1**	**600**	**600**	**500**	**NE**	**20**	**0.6**	**0.4**

TABLE 6
HISTORICAL POTABLE WELL ANALYTICAL DATA
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Contaminant of Concern →		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	1,2 Dichloropropane	1,2 Dichloroethane
Well ID	Date Collected (m/dd/yy)								
Residential Potable Well Parcel ID # 0668.54.2368	6/8/2011	<0.1	<0.1	<0.1	<0.1	ND	2.9	<0.1	<0.2
	3/10/2011	<0.1	<0.1	<0.1	<0.1	ND	1.1	<0.2	<0.2
	12/1/2010	<0.1	<0.1	<0.1	<0.1	ND	2.3	<0.2	<0.2
	8/27/2010	<0.1	<0.1	<0.1	<0.1	ND	0.74	<0.1	<0.2
	4/30/2010	<0.1	<0.1	<0.1	<0.1	ND	2.7	<0.1	<0.2
	12/22/2009	<0.1	<0.1	<0.1	<0.1	ND	4.8	<0.1	<0.2
	8/24/2009	<0.1	<0.2	<0.1	<0.1	ND	3.3	<0.1	<0.2
	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	4.3	<0.1	<0.2
	11/21/2008	<0.1	<0.1	<0.1	<0.1	ND	2.4	<0.1	<0.2
	7/22/2008	<1	<1	<1	<1	ND	4	<1	3
	2/18/2008	<1	<1	<1	<1	ND	1	<1	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	3/14/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	<1	<1
	9/8/2006	<1	<5	<5	<5	ND	5.3	<1	<1
	6/20/2006	<1	<5	<5	<5	ND	6.1	<1	<1
	2/28/2006	<1	<1	<1	<1	ND	8.9	<1	<1
	5/18/2005	<1	<1	<1	<1	ND	1.1	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	5/20/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.54.3261	6/8/2011	<0.1	<0.2	<0.1	<0.1	ND	0.4	<0.1	<0.2
	3/10/2011	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.2	<0.2
	12/1/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.2	<0.2
	8/27/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	4/30/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	12/22/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	8/24/2009	<0.1	<0.2	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	7/22/2008	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2008	<1	<1	<1	<1	ND	2.3	<1	<1
	9/19/2007	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	3/14/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	<1	<1
	9/8/2006	<1	<5	<5	<5	ND	<5	<1	<1
	6/20/2006	<1	<5	<5	<5	ND	<5	<1	<1
	2/28/2006	<1	<1	<1	<1	ND	<1	<1	<1
	12/6/2005	<1	<1	<1	<1	ND	<1	<1	<1
	5/18/2005	<1	<1	<1	<1	ND	<1	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	5/20/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.54.9729	5/20/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
2L Standard		**1**	**600**	**600**	**500**	**NE**	**20**	**0.6**	**0.4**

TABLE 6
HISTORICAL POTABLE WELL ANALYTICAL DATA
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Contaminant of Concern →		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	1,2 Dichloropropane	1,2 Dichloroethane
Well ID	**Date Collected (m/dd/yy)**								
Residential Potable Well Parcel ID # 0668.54.3028	6/8/2011	**2.6**	<0.2	<0.1	0.82	3.42	<0.2	**9.1**	**1.2**
	3/10/2011	<0.1	<0.1	<0.1	<0.1	ND	**1.1**	**5.6**	**0.61**
	12/1/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	8/27/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	4/30/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	8/24/2009	<0.1	<0.2	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	3/9/2009	<0.1	<0.1	<1	<0.1	ND	<0.2	<0.1	<0.2
	11/21/2008	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	7/22/2008	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2008	<1	<1	<1	<1	ND	<1	<1	<1
	9/19/2007	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	3/14/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	<1	<1
	9/8/2006	<1	<5	<5	<5	ND	<5	<1	<1
	6/20/2006	<1	<5	<5	<5	ND	<5	<1	<1
	2/28/2006	<1	<1	<1	<1	ND	<1	<1	<1
	12/6/2005	<1	<1	<1	<1	ND	<5	<1	<1
	5/18/2005	<1	<1	<1	<1	ND	<5	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.54.0372	6/8/2011	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	3/10/2011	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.2	<0.2
	12/1/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.2	<0.2
	8/27/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	4/30/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	12/22/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	8/24/2009	<0.1	<0.2	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	3/9/2009	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	11/28/2008	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	7/22/2008	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2008	<1	<1	<1	<1	ND	<1	<1	<1
	9/19/2007	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	3/14/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	<1	<1
	9/8/2006	<1	<5	<5	<5	ND	<5	<1	<1
	6/20/2006	<1	<1	<1	<1	ND	<1	<1	<1
	2/28/2006	<1	<1	<1	<1	ND	<1	<1	<1
	12/6/2005	<1	<1	<1	<1	ND	<1	<1	<1
	5/18/2005	<1	<1	<1	<1	ND	<1	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.44.9582	11/19/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.44.1573	11/19/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.54.1705	11/19/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.44.9876	11/19/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.44.8863	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
2L Standard		**1**	**600**	**600**	**500**	**NE**	**20**	**0.6**	**0.4**

TABLE 6
HISTORICAL POTABLE WELL ANALYTICAL DATA
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

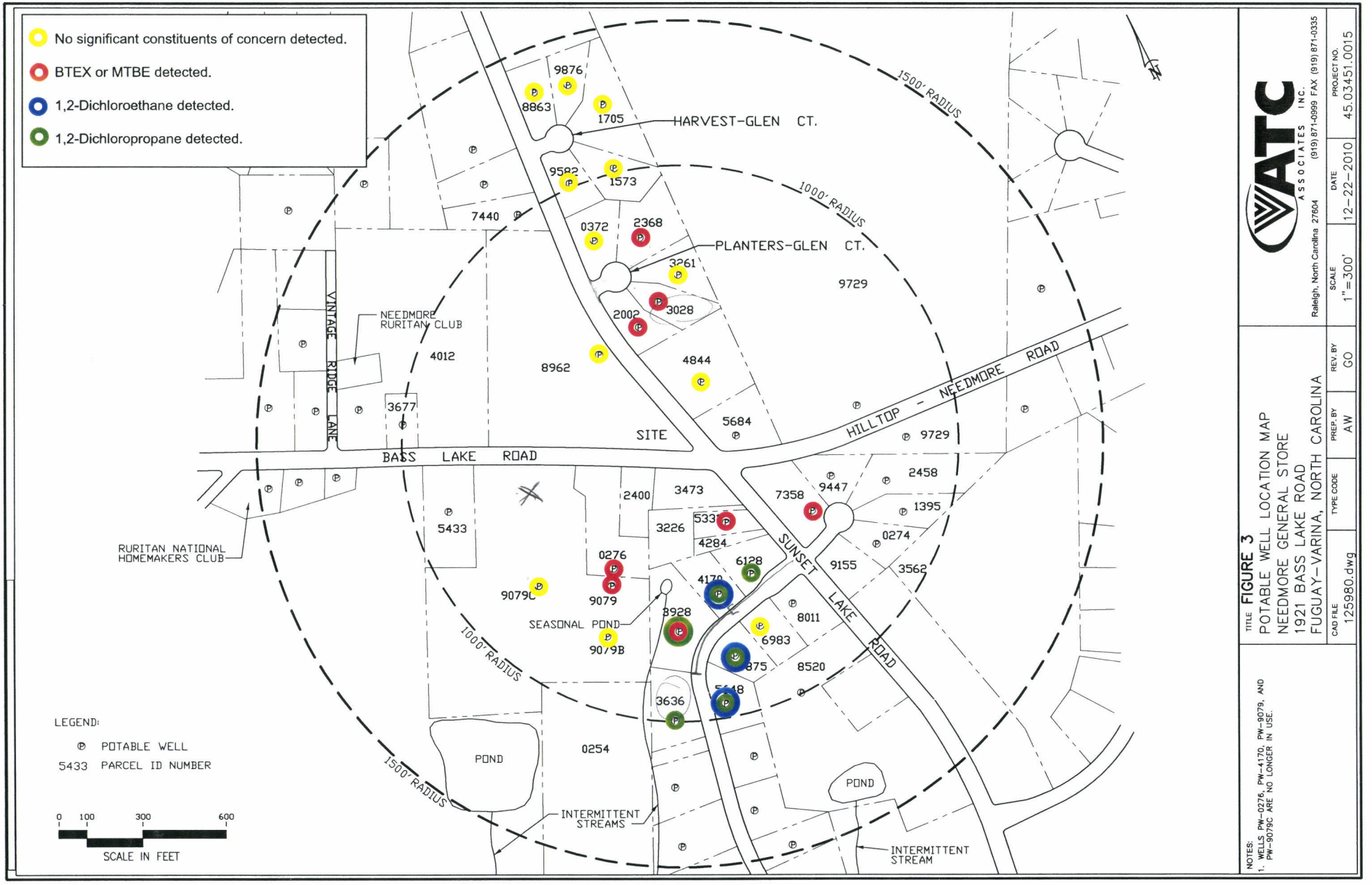
Contaminant of Concern →		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	1,2 Dichloropropane	1,2 Dichloroethane
Well ID	**Date Collected (m/dd/yy)**								
Residential Potable Well Parcel ID # 0668.43.5433	3/10/2011	<0.1	<0.1	<0.1	<0.1	ND	0.2	<0.1	<0.2
	6/20/2006	<1	<5	<5	<5	ND	5	<1	<1
	5/18/2005	<1	<1	<1	<1	ND	1	<1	<1
	2/18/2005	<0.5	<1	<1	<1	ND	5	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	5	<1	<1
	9/21/2004 *	<0.5	<1	<1	<1	ND	5	<1	<1
	1/28/2004	<0.5	<1	<1	<1	ND	5	<1	<1
	7/22/2003	<0.5	<1	<1	<1	ND	5	<1	<1
	5/20/2003	<0.5	<1	<1	<1	ND	5	<1	<1
Residential Potable Well Parcel ID # 0668.43.8962	6/8/2011	<0.1	<0.1	<0.2	<0.2	ND	<0.1	<0.1	<0.2
	12/1/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	8/22/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	4/30/2010	<0.1	<0.1	<0.1	<0.1	ND	<0.2	<0.1	<0.2
	12/23/2009	<0.1	<0.1	<1	<0.2	ND	<0.2	<0.1	<0.2
	8/24/2009	<0.1	<0.2	<1	<0.2	ND	<0.2	<0.1	<0.2
	3/9/2009	<0.1	<0.1	<0.1	<0.2	ND	<0.2	<0.1	<0.2
	11/21/2008	<0.1	<0.1	<1	<0.1	ND	<0.2	<0.1	<0.2
	7/22/2008	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2008	<1	<1	<1	<1	ND	<1	<1	<1
	9/19/2007	<1	<5	<5	<5	ND	<5	<1	<1
	6/21/2007	<1	<5	<5	<5	ND	<5	<1	<1
	3/14/2007	<1	<5	<5	<5	ND	<5	<1	<1
	12/7/2006	<1	<5	<5	<5	ND	<5	<1	<1
	9/8/2006	<1	<5	<5	<5	ND	<5	<1	<1
	6/20/2006	<1	<5	<5	<5	ND	<5	<1	<1
	2/28/2006	<1	<1	<1	<1	ND	<1	<1	<1
	12/6/2005	<1	<1	<1	<1	ND	<1	<1	<1
	8/24/2005	<1	<5	<5	<5	ND	<5	<1	<1
	5/18/2005	<1	<1	<1	<1	ND	<1	<1	<1
	2/18/2005	<0.5	<1	<1	<1	ND	<5	<1	<1
	11/11/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	1/28/2004	<0.5	<1	<1	<1	ND	<5	<1	<1
	10/9/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	7/22/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	4/23/2003	<0.5	<1	<1	<1	ND	<5	<1	<1
	8/2/2002	<0.5	<1	<1	<1	ND	<5	<1	<1
	2/14/2002	<0.5	<1	<1	<1	ND	<5	<1	<1
	8/20/2001	<0.5	<1	<1	<1	ND	<5	<1	<1
Residential Potable Well Parcel ID # 0668.43.3636	6/8/2011	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**5.3**	<0.2
	3/10/2011	<0.1	<0.1	<0.1	<0.1	ND	<0.2	**4.1**	<0.2
2L Standard		**1**	**600**	**600**	**500**	**NE**	**20**	**0.6**	**0.4**

(5)

Notes:

1. All concentrations reported in micrograms per liter (µg/L).
2. "<" or ND = None detected above method detection limit.
3. NC 2L GW Std. = Title 15A NCAC 2L .0202 Groundwater Standard
4. NE = Not established.
5. Values in **BOLD** indicate levels above 2L Groundwater Standards.

Jay



NOTES:
1. WELLS PW-0276, PW-4170, PW-9079, AND PW-9079C ARE NO LONGER IN USE.

TITLE **FIGURE 3**
POTABLE WELL LOCATION MAP
NEEDMORE GENERAL STORE
1921 BASS LAKE ROAD
FUGUAY-VARINA, NORTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY
125980.dwg		AW	GO

SCALE	DATE	PROJECT NO.
1"=300'	12-22-2010	45.03451.0015

ATC ASSOCIATES INC.
Raleigh, North Carolina 27604 (919) 871-0999 FAX (919) 871-0335

TABLE 1
WATER SUPPLY WELL INFORMATION
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Property Location and Address	Owner's Name and Address	Land Use Parcel Identification Number
Site 1921 Bass Lake Road Fuquay-Varina, NC	Stephenson V. Family LTD Partnership c/o Nancy Stephenson Young 8404 High Oak Drive Austin, Texas 78759-8165	Commercial / Residential Parcel ID # 0668.43.8962
6340 Sunset Lake Road Fuquay-Varina, NC 27526	Clark, Jimmy R. And Jewel A. Heirs George M. Bullock 6520 Dornoch Pl Fuquay-Varina, NC 27526-9005	Residential Parcel ID # 0688.43.7440
1837 Bass Lake Road Fuquay-Varina, NC 27526	Oliver, Alfred Brink 1833 Bass Lake Road Fuquay-Varina, NC 27526-9075	Residential Parcel ID # 0688.43.4012
6437 Sunset Lake Road Fuquay-Varina, NC 27526	Currin, Tony A. & Johanna P. Cumalander 848 Arboretum Drive Wilmington, North Carolina 28405-5222	Residential Parcel ID # 0668.53.5684
6429 Sunset Lake Road Fuquay-Varina, NC 27526	Brennan Way, LLC (Cumalander, Mark & Tonya) 848 Arboretum Drive Wilmington, North Carolina 28405-5222	Residential Parcel ID # 0668.53.4844
4109 Planters Glen Court Fuquay-Varina, NC 27526	Morman, Janet 4109 Planters Glen Court Fuquay-Varina, NC 27526-8670	Residential Parcel ID # 0668.54.2002
4108 Planters Glen Court Fuquay-Varina, NC 27526	Nixon, Earl & Bernice McEachin 4108 Planters Glen Court Fuquay-Varina, NC 27526-8670	Residential Parcel ID # 0668.54.0372
1912 Bass Lake Road Fuquay-Varina, NC 27526	Thomas, Julian Durwood 1912 Bass Lake Road Fuquay-Varina, NC 27526-9076	Residential Parcel ID # 0668.43.9079**
1916 Bass Lake Road* Fuquay-Varina, NC 27526	Thomas, Michael Gregg Faust, Thomas Eugene* 108 Falcon Dr. Fuquay-Varina, NC 27526-2017	Residential* Parcel ID # 0668.53.0276 (Well no longer in use)
1833 Bass Lake Road Fuquay-Varina, NC 27526	Oliver, Alfred Brink Heirs George M. Bullock 6520 Dornoch Pl Fuquay-Varina, NC 27526-9005	Residential Parcel ID # 0668.43.3677
6408 Vintage Ridge Lane Fuquay-Varina, NC27526	Thompson, Leonard J. & Karen C. 6408 Vintage Ridge Lane Fuquay-Varina, North Carolina 27526-7557	Residential Parcel ID # 0668.53.7358

Notes:

1. * = The potable well on parcel 0668.53.0276 also supplies water for parcels 0668.53.2400 and 0668.53.3473.
2. ** = Three potable wells are located on parcel 0668.43.9079 which have been entitled 9079, 9079B, and 9079C. Well 9079B contains septic impact and is no longer in use. Well 9079 contains MTBE impact and is no longer in use. Well 9079C is the well currently in use.

TABLE 1
WATER SUPPLY WELL INFORMATION
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Property Location and Address	Owner's Name and Address	Land Use Parcel Identification Number
6409 Vintage Ridge Lane Fuquay-Varina, NC 27526	Ryan, Thomas A. & Tari L. 6409 Vintage Ridge Lane Fuquay-Varina, NC 27526-7557	Residential Parcel ID # 0668.53.9155
6500 Vintage Ridge Lane Fuquay-Varina, NC 27526	Sgroi, Stephen F. & Jodi L. 6500 Vintage Ridge Lane Raleigh, North Carolina 27606-7540	Residential Parcel ID # 0668.53.6128
6504 Vintage Ridge Lane Fuquay-Varina, NC 27526	Britt, Donnie K. Patrick 6504 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.53.4170 (Well no longer in use)
6505 Vintage Ridge Lane Fuquay-Varina, NC 27526	Jarrad, Marc & Joan 6505 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.52.6983
6517 Vintage Ridge Lane Fuquay-Varina, NC 27526	Deboskey, David H. & Cindy S. 6517 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.52.5648
6506 Sunset Lake Road Fuquay-Varina, NC 27526	Williams, Patricia P. 1305 Bass Lake Road Holly Springs, NC 27540-9077	Residential Parcel ID # 0668.53.5331*
6516 Vintage Ridge Lane Fuquay-Varina, NC 27526	Jones, Donald P. Sr & Vicky H. 6516 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.52.3636
4109 Harvest Glen Court Fuquay-Varina, NC 27526	Evan Glen LLC P.O. Box 1055 Fuquay-Varina, NC 27526-1055	Residential Parcel ID # 0668.44.9582
4105 Harvest Glen Court Fuquay-Varina, NC 27526	Evan Glen LLC P.O. Box 1055 Fuquay-Varina, NC 27526-1055	Residential Parcel ID # 0668.54.1573
4106 Planters Glen Court Fuquay-Varina, NC 27526	Hart, Timmy Ray & Hope Prim 4106 Planters Glen Court Fuquay-Varina, NC 27526-8670	Residential Parcel ID # 0668.54.2368
4105 Planters Glen Court Fuquay-Varina, NC 27526	McDermott, Jefferey R. 4105 Planters Glen Court Fuquay-Varina, NC 27526-8670	Residential Parcel ID # 0668.54.3028

Notes:

1. * = The potable well located on the south side of the house collapsed and a new well was installed in the rear of the property in February 2005.

TABLE 1
WATER SUPPLY WELL INFORMATION
NEEDMORE GENERAL STORE
NCDENR INCIDENT No. 22139
Fuquay-Varina, North Carolina
ATC Project No. 45.03451.0015

Property Location and Address	Owner's Name and Address	Land Use Parcel Identification Number
4101 Planters Glen Court Fuquay-Varina, NC 27526	Smiley, Karen J. P. O. Box 37545 Raleigh, North Carolina 27627-7545	Residential Parcel ID # 0668.54.3261
6508 Vintage Ridge Lane Fuquay-Varina, NC 27526	Spidle, R. James & Deborah P. 6508 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.52.3928
5744 Hilltop Needmore Road Fuquay-Varina, NC 27526	Ransdell, W.G. Heirs % Phillip C. Ransdell 111 East Lakeside Drive Fuquay-Varina, NC 27526-2357	Residential Parcel ID # 0668.54.9729
1828 Bass Lake Road Fuquay-Varina, NC 27526	Sawyer, George W. &Patsy M. 1828 Bass Lake Road Fuquay-Varina, NC 27526-9074	Residential Parcel ID # 0668.43.5433 *
6400 Vintage Ridge Lane Fuquay-Varina, NC 27526	Culbertson, Deborah L & Scott W. 6400 Vintage Ridge Lane Fuquay-Varina, NC 27526-7557	Residential Parcel ID # 0668.63.2458
6401 Vintage Ridge Lane Fuquay-Varina, NC 27526	Nottingham, Jeffery C. & Sleet, Virginia M. 6401 Vintage Ridge Lane Fuquay-Varina, NC 27526-7557	Residential Parcel ID # 0668.63.1395
6405 Vintage Ridge Lane Fuquay-Varina, NC 27526	Barbour, William C., Jr. 6405 Vintage Ridge Lane Fuquay-Varina, NC 27526-7557	Residential Parcel ID # 0668.63.0274
6501 Vintage Ridge Lane Fuquay-Varina, NC 27526	Zhitova, Olgan N. & Sergey 6501 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.53.8011
6540 Sunset Lake Road Fuquay-Varina, NC 27526	Faucette, Robert J., Sr. & Taylor B. 6532 Sunset Lake Road Fuquay-Varina, NC 27526-7560	Residential Parcel ID # 0668.52.8520
6509 Vintage Ridge Lane Fuquay-Varina, NC 27526	Frazier, Robert E. & Palina M. 6509 Vintage Ridge Lane Fuquay-Varina, NC 27526-7541	Residential Parcel ID # 0668.52.5875
6404 Vintage Ridge Lane Fuquay-Varina, NC 27526	Carter, Charles W. Jr. 6404 Vintage Ridge Lane Fuquay-Varina, NC 27526-7577	Residential Parcel ID # 0668.53.9447

Notes:

1. * = The potable well located on Mr. Sawyer's property ran dry and a new well was installed in September 2004.