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Division	WASTE MANAGEMENT
Section	SUPERFUND
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NCDENR

COPY from UST file

North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor
William G. Ross Jr., Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

April 4, 2007

NCDENR, Division of Forest Resources
P.O. Box 29851
Raleigh, North Carolina 27626-0581
Attention: Allen Williams

RE: Acknowledgment of Receipt
Groundwater Sampling Report
NC Forest Service
1933 Mountain Island Highway, Mount Holly
Gaston County
Incident Number:20181

Dear Mr. Williams:

On March 20, 2007, the Underground Storage Tank (UST) Section of the Division of Waste Management, Mooresville Regional Office, received the Groundwater Sampling Report for the subject site. This information has been reviewed and will remain in the UST Section files. Should you have any questions, please contact me at the address or telephone number provided below, or by e-mail at *Brad.Newton@ncmail.net*.

Sincerely,

Brad C. Newton, P.G.
Hydrogeologist II
Mooresville Regional Office

cc: Gaston County Health Department
James Stahling - F&R - Raleigh, NC
UST Regional Offices

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

Fayetteville (FAY) – Systel Building, Suite 714, Fayetteville, NC 28301 (910) 486-1541

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

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 (919) 571-4700

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

Wilmington (WIL) – 127 Cardinal Street Extension, Wilmington, NC 28405 (910) 395-3900

Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 (336) 771-4600

Guilford County Environmental Health, 1203 Maple Street, Greensboro, NC 27405, (336) 641-3771

NCDENR

North Carolina Department of Environment and Natural Resources

CC:?

From UST File

Michael F. Easley, Governor
William G. Ross Jr., Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

October 31, 2007

NCDENR, Division of Forest Resources
P.O. Box 29851
Raleigh, North Carolina 27626-0581
Attention: Allen Williams

RE: Acknowledgment of Receipt
Groundwater Sampling Report
NC Forest Service
1933 Mountain Island Highway, Mount Holly
Gaston County
Incident Number:20181

Dear Mr. Williams:

On October 26, 2007, the Underground Storage Tank (UST) Section of the Division of Waste Management, Mooresville Regional Office, received the Groundwater Sampling Report for the subject site. This information has been reviewed and will remain in the UST Section files. Should you have any questions, please contact me at the address or telephone number provided below, or by e-mail at *Brad.Newton@ncmail.net.*

Sincerely,

Brad C. Newton, P.G.
Hydrogeologist II
Mooresville Regional Office

cc: Gaston County Health Department
James Stahling - F&R - Raleigh, NC
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Guilford County Environmental Health, 1203 Maple Street, Greensboro, NC 27405, (336) 641-3771

NCDENR

North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor
William G. Ross Jr., Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

June 10, 2005

Michael and Mary Cox
P.O. Box 383
Mount Holly, North Carolina 28120

RE: Sample Results
Cox Water Supply Well (WSW-4)
517 Flat Rock Cemetery Road
Mount Holly, Gaston County

Dear Mr. and Mrs. Cox:

On February 28, 2005, Froehling and Robertson, Inc. personnel, representatives of North Carolina Forest Service, sampled your water supply well. The sample was analyzed for volatile and semi-volatile organic compounds. Volatile and semi-volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers. The February 28, 2005 sample detected 1,2,3-trichloro-1-propane, 4-hydroxy-4methyl-2-pentanone, 5-methyl-1-hepten-4-ol, and acetic acid in the well water.

Laboratory results from these samples are summarized below. These results represent the conditions in your well at the time of sampling:

Compound	Concentration*	NC Maximum Allowable Concentration
1,2,3-trichloro-1-propene	6.0 ug/L	Laboratory Method Detection Limit
4-hydroxy-4-methyl-2-pentanone	15 ug/L	Laboratory Method Detection Limit
5-methyl-1-hepten-4-ol	12 ug/L	Laboratory Method Detection Limit
acetic acid	108 ug/L	Laboratory Method Detection Limit

*ug/L – parts per billion

I have enclosed a copy of the Health Risk Evaluation prepared by Dr. Ken Rudo, of the Occupational and Environmental Epidemiology Branch of the Division of Public Health. If you have any questions, please contact me at the address or telephone number provided. Dr. Rudo can be reached at (919) 715-6430.

Sincerely,

Brad C. Newton, P.G.
Hydrogeologist II
Mooresville Regional Office

Attachments
cc: James Thompson – Gaston County Health Department
Bruce Parris - Aquifer Protection Section, MRO

UST Regional Offices

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

Fayetteville (FAY) – Systel Building, Suite 714, Fayetteville, NC 28301 **(910) 486-1541**

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Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 **(336) 771-4600**

Guilford County Environmental Health, 1203 Maple Street, Greensboro, NC 27405, **(336) 641-3771**

NORTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
OCCUPATIONAL AND ENVIRONMENTAL EPIDEMIOLOGY BRANCH

#0503024-05
" -06
" -07
" -08
" -09

DRINKING WATER HEALTH RISK EVALUATION
GENERAL

DATE 6/10/05 **COUNTY** — **LABORATORY #** MW11, MW12, WSW-2, WSW-4, WSW-5

☑ Based on these analytical results, this water should be considered safe for normal usage.

☐ Chemical analysis did not show any contamination. Water should be resampled if odor or taste persists.

☐ The water should not be used for drinking or cooking purposes; avoid prolonged bathing/showering.

☐ Based on these analytical results, this water is highly contaminated and should not be used for drinking, cooking, or bathing/showering.

☐ The laboratory results are not conclusive, please resample.

PLEASE INDICATE ON LAB SHEET THAT IT IS A RESAMPLE AND PROVIDE PREVIOUS SAMPLE NUMBER(S).

COMMENTS:

For further information, contact Dr. Ken Rudo, Occupational and Environmental Epidemiology Branch, (919) 715-6430.

DHHS 3891 (5/99)
Occupational & Environmental Epidemiology Branch (R

Post-it® Fax Note 7671	Date 6/10/05	# of pages ▶ 4
To Brad Newton	From Dr. Ken Rudo	
Co./Dept. WJT IMPO	Co. NC DHHS	
Phone #	Phone # 7156430 (919)	
Fax # 704663 6040	Fax #	

SINCE 1981

LAB #	0503024-05	0503024-06	0503024-07	0503024-08		
SAMPLE ID	MW-11	MW-12	WSW-2	WSW-4		
DATE/TIME	02/28/05	02/28/05	02/28/05	02/28/05	Quant	
MATRIX	Water	Water	Water	Water	Limit	Units
Semivolatile Organic Compounds (Water)						
Acenaphthene	<5	<5	<5	<5	5	µg/L
Acenaphthylene	<5	<5	<5	<5	5	µg/L
Anthracene	<5	<5	<5	<5	5	µg/L
Benzidine	<5	<5	<5	<5	5	µg/L
Benzo(a)anthracene	<5	<5	<5	<5	5	µg/L
Benzo(b)fluoranthene	<5	<5	<5	<5	5	µg/L
Benzo(k)fluoranthene	<5	<5	<5	<5	5	µg/L
Benzo(g,h,i)perylene	<5	<5	<5	<5	5	µg/L
Benzo(a)pyrene	<5	<5	<5	<5	5	µg/L
Bis(2-chloroethoxy)methane	<5	<5	<5	<5	5	µg/L
Bis(2-chloroethyl)ether	<5	<5	<5	<5	5	µg/L
Bis(2-chloroisopropyl)ether	<5	<5	<5	<5	5	µg/L
Bis(2-ethylhexyl)phthalate	<5	<5	<5	<5	5	µg/L
4-Bromophenylphenylether	<5	<5	<5	<5	5	µg/L
Butyl benzyl phthalate	<5	<5	<5	<5	5	µg/L
2-Chloronaphthalene	<5	<5	<5	<5	5	µg/L
4-Chlorophenylphenylether	<5	<5	<5	<5	5	µg/L
Chrysene	<5	<5	<5	<5	5	µg/L
Dibenz(a,h)anthracene	<5	<5	<5	<5	5	µg/L
Di-n-butyl phthalate	<5	<5	<5	<5	5	µg/L
1,2-Dichlorobenzene	<5	<5	<5	<5	5	µg/L
1,3-Dichlorobenzene	<5	<5	<5	<5	5	µg/L
1,4-Dichlorobenzene	<5	<5	<5	<5	5	µg/L
3,3'-Dichlorobenzidine	<5	<5	<5	<5	5	µg/L
Diethyl phthalate	<5	<5	<5	<5	5	µg/L
Dimethyl phthalate	<5	<5	<5	<5	5	µg/L
2,4-Dinitrotoluene	<5	<5	<5	<5	5	µg/L
2,6-Dinitrotoluene	<5	<5	<5	<5	5	µg/L
Di-n-octyl phthalate	<5	<5	<5	<5	5	µg/L
Fluoranthene	<5	<5	<5	<5	5	µg/L
Fluorene	<5	<5	<5	<5	5	µg/L
Hexachlorobenzene	<5	<5	<5	<5	5	µg/L

SINCE 1961

LAB #	0503024-09	-	-	-		
SAMPLE ID	WSW-5	-	-	-		
DATE/TIME	02/28/05	-	-	-	Quant Limit:	Units
MATRIX	Water	-	-	-		
Semivolatile Organic Compounds (Water)						
Acenaphthene	<5	-	-	-	5	µg/L
Acenaphthylene	<5	-	-	-	5	µg/L
Anthracene	<5	-	-	-	5	µg/L
Benzidine	<5	-	-	-	5	µg/L
Benzo(a)anthracene	<5	-	-	-	5	µg/L
Benzo(b)fluoranthene	<5	-	-	-	5	µg/L
Benzo(k)fluoranthene	<5	-	-	-	5	µg/L
Benzo(g,h,i)perylene	<5	-	-	-	5	µg/L
Benzo(a)pyrene	<5	-	-	-	5	µg/L
Bis(2-chloroethoxy)methane	<5	-	-	-	5	µg/L
Bis(2-chloroethyl)ether	<5	-	-	-	5	µg/L
Bis(2-chloroisopropyl)ether	<5	-	-	-	5	µg/L
Bis(2-ethylhexyl)phthalate	<5	-	-	-	5	µg/L
4-Bromophenylphenylether	<5	-	-	-	5	µg/L
Butyl benzyl phthalate	<5	-	-	-	5	µg/L
2-Chloronaphthalene	<5	-	-	-	5	µg/L
4-Chlorophenylphenylether	<5	-	-	-	5	µg/L
Chrysene	<5	-	-	-	5	µg/L
Dibenz(a,h)anthracene	<5	-	-	-	5	µg/L
Di-n-butyl phthalate	<5	-	-	-	5	µg/L
1,2-Dichlorobenzene	<5	-	-	-	5	µg/L
1,3-Dichlorobenzene	<5	-	-	-	5	µg/L
1,4-Dichlorobenzene	<5	-	-	-	5	µg/L
3,3'-Dichlorobenzidine	<5	-	-	-	5	µg/L
Diethyl phthalate	<5	-	-	-	5	µg/L
Dimethyl phthalate	<5	-	-	-	5	µg/L
2,4-Dinitrotoluene	<5	-	-	-	5	µg/L
2,6-Dinitrotoluene	<5	-	-	-	5	µg/L
Di-n-octyl phthalate	<5	-	-	-	5	µg/L
Fluoranthene	<5	-	-	-	5	µg/L
Fluorene	<5	-	-	-	5	µg/L
Hexachlorobenzene	<5	-	-	-	5	µg/L
Hexachlorobutadiene	<5	-	-	-	5	µg/L
Hexachlorocyclopentadiene	<5	-	-	-	5	µg/L
Hexachloroethane	<5	-	-	-	5	µg/L
Indeno(1,2,3-cd)pyrene	<5	-	-	-	5	µg/L
Isophorone	<5	-	-	-	5	µg/L
Naphthalene	<5	-	-	-	5	µg/L

SINCE 1881

LAB #	0503024-05	0503024-06	0503024-07	0503024-08		
SAMPLE ID	MW-11	MW-12	WSW-2	WSW-4		
DATE/TIME	02/28/05	02/28/05	02/28/05	02/28/05	Quant Limit	Units
MATRIX	Water	Water	Water	Water		
Semivolatile Organic Compounds (continued)						
Hexachlorobutadiene	<5	<5	<5	<5	5	µg/L
Hexachlorocyclopentadiene	<5	<5	<5	<5	5	µg/L
Hexachlorobenzene	<5	<5	<5	<5	5	µg/L
Indeno(1,2,3-cd)pyrene	<5	<5	<5	<5	5	µg/L
Isophorone	<5	<5	<5	<5	5	µg/L
Naphthalene	<5	<5	<5	<5	5	µg/L
Nitrobenzene	<5	<5	<5	<5	5	µg/L
N-Nitrosodimethylamine	<5	<5	<5	<5	5	µg/L
N-Nitrosodiphenylamine	<5	<5	<5	<5	5	µg/L
N-Nitroso-di-n-propylamine	<5	<5	<5	<5	5	µg/L
Phenanthrene	<5	<5	<5	<5	5	µg/L
Pyrene	<5	<5	<5	<5	5	µg/L
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5	µg/L
Biphenyl						
Semivolatile Organic Compound Library Search (Water)						
1,2,3-trichloro-1-propene	-	-	-	6 [5]		µg/L
4-hydroxy-4-methyl-2-pentanone	-	30 [3]	21 [2]	15 [3]		µg/L
5-methyl-1-hepten-4-ol	-	-	-	12 [1]		µg/L
Acetic acid, pentyl ester	-	147 [4]	121 [4]	100 [4]		µg/L
Caprolactam	-	210 [9]	-	-		µg/L
No non target compounds were detected	0	-	-	-		µg/L
Unknown compound	-	10	-	-		µg/L

NCDENR

North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor
William G. Ross Jr., Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

June 10, 2005

Michael and Mary Cox
P.O. Box 383
Mount Holly, North Carolina 28120

RE: Sample Results
Cox Water Supply Well (WSW-2)
511 Flat Rock Cemetery Road
Mount Holly, Gaston County

Dear Mr. and Mrs. Cox:

On February 28, 2005, Froehling and Robertson, Inc. personnel, representatives of North Carolina Forest Service, sampled your water supply well. The sample was analyzed for volatile and semi-volatile organic compounds. Volatile and semi-volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers. The February 28, 2005 sample detected 4-hydroxy-4methyl-2-pentanone, and acetic acid in the well water.

Laboratory results from these samples are summarized below. These results represent the conditions in your well at the time of sampling:

Compound	Concentration*	NC Maximum Allowable Concentration
1,2,3-trichloro-1-propene	21 ug/L	Laboratory Method Detection Limit
acetic acid	131 ug/L	Laboratory Method Detection Limit

*ug/L – parts per billion

I have enclosed a copy of the Health Risk Evaluation prepared by Dr. Ken Rudo, of the Occupational and Environmental Epidemiology Branch of the Division of Public Health. If you have any questions, please contact me at the address or telephone number provided. Dr. Rudo can be reached at (919) 715-6430.

Sincerely,

Brad C. Newton, P.G.
Hydrogeologist II
Mooresville Regional Office

Attachments

cc: James Thompson – Gaston County Health Department
Bruce Parris - Aquifer Protection Section, MRO

UST Regional Offices

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

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NORTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
OCCUPATIONAL AND ENVIRONMENTAL EPIDEMIOLOGY BRANCH

#0503024-05
" -06
" -07
" -08
" -09

DRINKING WATER HEALTH RISK EVALUATION
GENERAL

DATE 6/10/05 **COUNTY** — **LABORATORY #** MW11, MW12, WSW-2, WSW-4, WSW-5

☑ Based on these analytical results, this water should be considered safe for normal usage.

☐ Chemical analysis did not show any contamination. Water should be resampled if odor or taste persists.

☐ The water should not be used for drinking or cooking purposes; avoid prolonged bathing/showering.

☐ Based on these analytical results, this water is highly contaminated and should not be used for drinking, cooking, or bathing/showering.

☐ The laboratory results are not conclusive, please resample.

PLEASE INDICATE ON LAB SHEET THAT IT IS A RESAMPLE AND PROVIDE PREVIOUS SAMPLE NUMBER(S).

COMMENTS:

For further information, contact Dr. Ken Rudo, Occupational and Environmental Epidemiology Branch, (919) 715-6430.

DHHS 3891 (5/99)
Occupational & Environmental Epidemiology Branch (R

Post-it® Fax Note 7671	Date 6/10/05	# of pages ▸ 4
To Brad Newton	From Dr. Ken Rudo	
Co./Dept. UST Mgmt	Co. NC DHHS	
Phone #	Phone # 7156430 (919)	
Fax # 704663 6040	Fax #	

SINCE 1881

LAB #	0503024-05	0503024-06	0503024-07	0503024-08		
SAMPLE ID	MW-11	MW-12	WSW-2	WSW-4		
DATE/TIME	02/28/05	02/28/05	02/28/05	02/28/05	Quant	
MATRIX	Water	Water	Water	Water	Limit:	Units
Semivolatile Organic Compounds (Water)						
Acenaphthene	<5	<5	<5	<5	5	µg/L
Acenaphthylene	<5	<5	<5	<5	5	µg/L
Anthracene	<5	<5	<5	<5	5	µg/L
Benzidine	<5	<5	<5	<5	5	µg/L
Benzo(a)anthracene	<5	<5	<5	<5	5	µg/L
Benzo(b)fluoranthene	<5	<5	<5	<5	5	µg/L
Benzo(k)fluoranthene	<5	<5	<5	<5	5	µg/L
Benzo(g,h,i)perylene	<5	<5	<5	<5	5	µg/L
Benzo(a)pyrene	<5	<5	<5	<5	5	µg/L
Bis(2-chloroethoxy)methane	<5	<5	<5	<5	5	µg/L
Bis(2-chloroethyl)ether	<5	<5	<5	<5	5	µg/L
Bis(2-chloroisopropyl)ether	<5	<5	<5	<5	5	µg/L
Bis(2-ethylhexyl)phthalate	<5	<5	<5	<5	5	µg/L
4-Bromophenylphenylether	<5	<5	<5	<5	5	µg/L
Butyl benzyl phthalate	<5	<5	<5	<5	5	µg/L
2-Chloronaphthalene	<5	<5	<5	<5	5	µg/L
4-Chlorophenylphenylether	<5	<5	<5	<5	5	µg/L
Chrysene	<5	<5	<5	<5	5	µg/L
Dibenz(a,h)anthracene	<5	<5	<5	<5	5	µg/L
Di-n-butyl phthalate	<5	<5	<5	<5	5	µg/L
1,2-Dichlorobenzene	<5	<5	<5	<5	5	µg/L
1,3-Dichlorobenzene	<5	<5	<5	<5	5	µg/L
1,4-Dichlorobenzene	<5	<5	<5	<5	5	µg/L
3,3'-Dichlorobenzidine	<5	<5	<5	<5	5	µg/L
Diethyl phthalate	<5	<5	<5	<5	5	µg/L
Dimethyl phthalate	<5	<5	<5	<5	5	µg/L
2,4-Dinitrotoluene	<5	<5	<5	<5	5	µg/L
2,6-Dinitrotoluene	<5	<5	<5	<5	5	µg/L
Di-n-octyl phthalate	<5	<5	<5	<5	5	µg/L
Fluoranthene	<5	<5	<5	<5	5	µg/L
Fluorene	<5	<5	<5	<5	5	µg/L
Hexachlorobenzene	<5	<5	<5	<5	5	µg/L

SINCE 1961

LAB #	0503024-09	-	-	-		
SAMPLE ID	WSW-5	-	-	-		
DATE/TIME	02/28/05	-	-	-	Quant Limit	Units
MATRIX	Water	-	-	-		
Semivolatile Organic Compounds (Water)						
Acenaphthene	<5	-	-	-	5	µg/L
Acenaphthylene	<5	-	-	-	5	µg/L
Anthracene	<5	-	-	-	5	µg/L
Benzidine	<5	-	-	-	5	µg/L
Benzo(a)anthracene	<5	-	-	-	5	µg/L
Benzo(b)fluoranthene	<5	-	-	-	5	µg/L
Benzo(k)fluoranthene	<5	-	-	-	5	µg/L
Benzo(g,h,i)perylene	<5	-	-	-	5	µg/L
Benzo(a)pyrene	<5	-	-	-	5	µg/L
Bis(2-chloroethoxy)methane	<5	-	-	-	5	µg/L
Bis(2-chloroethyl)ether	<5	-	-	-	5	µg/L
Bis(2-chloroisopropyl)ether	<5	-	-	-	5	µg/L
Bis(2-ethylhexyl)phthalate	<5	-	-	-	5	µg/L
4-Bromophenylphenylether	<5	-	-	-	5	µg/L
Butyl benzyl phthalate	<5	-	-	-	5	µg/L
2-Chloronaphthalene	<5	-	-	-	5	µg/L
4-Chlorophenylphenylether	<5	-	-	-	5	µg/L
Chrysene	<5	-	-	-	5	µg/L
Dibenz(a,h)anthracene	<5	-	-	-	5	µg/L
Di-n-butyl phthalate	<5	-	-	-	5	µg/L
1,2-Dichlorobenzene	<5	-	-	-	5	µg/L
1,3-Dichlorobenzene	<5	-	-	-	5	µg/L
1,4-Dichlorobenzene	<5	-	-	-	5	µg/L
3,3'-Dichlorobenzidine	<5	-	-	-	5	µg/L
Diethyl phthalate	<5	-	-	-	5	µg/L
Dimethyl phthalate	<5	-	-	-	5	µg/L
2,4-Dinitrotoluene	<5	-	-	-	5	µg/L
2,6-Dinitrotoluene	<5	-	-	-	5	µg/L
Di-n-octyl phthalate	<5	-	-	-	5	µg/L
Fluoranthene	<5	-	-	-	5	µg/L
Fluorene	<5	-	-	-	5	µg/L
Hexachlorobenzene	<5	-	-	-	5	µg/L
Hexachlorobutadiene	<5	-	-	-	5	µg/L
Hexachlorocyclopentadiene	<5	-	-	-	5	µg/L
Hexachloroethane	<5	-	-	-	5	µg/L
Indeno(1,2,3-cd)pyrene	<5	-	-	-	5	µg/L
Isophorone	<5	-	-	-	5	µg/L
Naphthalene	<5	-	-	-	5	µg/L

SINCE 1861

LAB #	0503024-05	0503024-06	0503024-07	0503024-08		
SAMPLE ID	MW-11	MW-12	WSW-2	WSW-4		
DATE/TIME	02/28/05	02/28/05	02/28/05	02/28/05	Quant Limit	Units
MATRIX	Water	Water	Water	Water		
Semivolatile Organic Compounds (continued)						
Hexachlorobutadiene	<5	<5	<5	<5	5	µg/L
Hexachlorocyclopentadiene	<5	<5	<5	<5	5	µg/L
Hexachloroethane	<5	<5	<5	<5	5	µg/L
Indeno(1,2,3-cd)pyrene	<5	<5	<5	<5	5	µg/L
Isophorone	<5	<5	<5	<5	5	µg/L
Naphthalene	<5	<5	<5	<5	5	µg/L
Nitrobenzene	<5	<5	<5	<5	5	µg/L
N-Nitrosodimethylamine	<5	<5	<5	<5	5	µg/L
N-Nitrosodiphenylamine	<5	<5	<5	<5	5	µg/L
N-Nitroso-di-n-propylamine	<5	<5	<5	<5	5	µg/L
Phenanthrene	<5	<5	<5	<5	5	µg/L
Pyrene	<5	<5	<5	<5	5	µg/L
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5	µg/L
Biphenyl						
Semivolatile Organic Compound Library Search (Water)						
1,2,3-trichloro-1-propene	-	-	-	6 [5]		µg/L
4-hydroxy-4-methyl-2-pentanone	-	30 [3]	21 [2]	15 [3]		µg/L
5-methyl-1-hepten-4-ol	-	-	-	12 [1]		µg/L
Acetic acid, pentyl ester	-	147 [4]	131 [4]	108 [4]		µg/L
Caprolactam	-	210 [9]	-	-		µg/L
No non target compounds were detected	0	-	-	-		µg/L
Unknown compound	-	10	-	-		µg/L

~~#36587, Forest site?~~

NCDENR

North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor
William G. Ross Jr., Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

April 14, 2005

closed ← UST NC Forest Svc Site
CD #186 MO-3924 / #11184
Hwy 273
↳ aka N. Main St.
351955 x 805955

David Gibson
P.O. Box 764
Mount Holly, North Carolina 28120

RE: Sample Results
Gibson Water Supply Well (WSW-5)
Mount Holly, Gaston County

Dear Mr. Gibson:

On February 28, 2005, Froehling and Robertson, Inc. personnel, representatives of North Carolina Forest Service, sampled your water supply well. The sample was analyzed for volatile and semi-volatile organic compounds. Volatile and semi-volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers. The February 28, 2005 sample detected 1,2,3-trichloro-1-propene, 4-hydroxy-4methyl-2-pentanone, and acetic acid in the well water.

Laboratory results from these samples are summarized below. These results represent the conditions in your well at the time of sampling:

Compound	Concentration*	NC Maximum Allowable Concentration
1,2,3-trichloro-1-propene	8.0 ug/L	Laboratory Method Detection Limit
4-hydroxy-4methyl-2-pentanone	19 ug/L	Laboratory Method Detection Limit
acetic acid	18 ug/L	Laboratory Method Detection Limit

*ug/L – parts per billion

I have forwarded a copy of the laboratory analytical report to Dr. Ken Rudo, of the Occupational and Environmental Epidemiology Branch of the Division of Public Health, and requested a Health Risk Evaluation. If you have any questions, please contact me at the address or telephone number provided. Dr. Rudo can be reached at (919) 715-6430.

Sincerely,

Brad C. Newton, P.G.
Hydrogeologist II
Mooresville Regional Office

Attachments

cc: James Thompson – Gaston County Health Department
Bruce Parris - Aquifer Protection Section, MRO

UST Regional Offices

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

Fayetteville (FAY) – Systel Building, Suite 714, Fayetteville, NC 28301 **(910) 486-1541**

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

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 **(919) 571-4700**

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

Wilmington (WIL) – 127 Cardinal Street Extension, Wilmington, NC 28405 **(910) 395-3900**

Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 **(336) 771-4600**

Guilford County Environmental Health, 1203 Maple Street, Greensboro, NC 27405, **(336) 641-3771**

SINCE 1881

LAB #	0503024-09	-	-	-		
SAMPLE ID	WSW-5	-	-	-		
DATE/TIME	02/28/05	-	-	-	Quant	
MATRIX	Water	-	-	-	Limit:	Units
Semivolatile Organic Compounds (continued)						
Nitrobenzene	<5	-	-	-	5	µg/L
N-Nitrosodimethylamine	<5	-	-	-	5	µg/L
N-Nitrosodiphenylamine	<5	-	-	-	5	µg/L
N-Nitroso-di-n-propylamine	<5	-	-	-	5	µg/L
Phenanthrene	<5	-	-	-	5	µg/L
Pyrene	<5	-	-	-	5	µg/L
1,2,4-Trichlorobenzene	<5	-	-	-	5	µg/L
Biphenyl	<5	-	-	-	5	µg/L
Semivolatile Organic Compound Library Search (Water)						
1,2,3-trichloro-1-propene	**8 [5]**	-	-	-		µg/L
4-hydroxy-4-methyl-2-pentanone	**19 [3]**	-	-	-		µg/L
Acetic acid, pentyl ester	**18 [4]**	-	-	-		µg/L

Notes and Definitions

1 = Estimated concentration with Q Value = 45
2 = Estimated concentration with Q Value = 50
3 = Estimated concentration with Q Value = 53
4 = Estimated concentration with Q Value = 59
5 = Estimated concentration with Q Value = 72
6 = Estimated concentration with Q Value = 76
7 = Estimated concentration with Q Value = 81
8 = Estimated concentration with Q Value = 83
9 = Estimated concentration with Q Value = 87
10 = Estimated concentration with Q Value = 96

mg/L = milligrams per Liter
µg/L = micrograms per Liter
BQL = Below the Quantitation Limit
mg/kg = milligrams per kilogram
ppm = parts per million
CFU/mL = Colony forming units per milliliter
su = standard units
NTU = Nephelometric Turbidity Units
MPN/100 mL = Most Probable Number per 100 milliliters

SINCE 1881

LAB #	0503024-09	-	-	-		
SAMPLE ID	WSW-5	-	-	-		
DATE/TIME	02/28/05	-	-	-	Quant	
MATRIX	Water	-	-	-	Limit:	Units
Semivolatile Organic Compounds (Water)						
Acenaphthene	<5	-	-	-	5	µg/L
Acenaphthylene	<5	-	-	-	5	µg/L
Anthracene	<5	-	-	-	5	µg/L
Benzidine	<5	-	-	-	5	µg/L
Benzo(a)anthracene	<5	-	-	-	5	µg/L
Benzo(b)fluoranthene	<5	-	-	-	5	µg/L
Benzo(k)fluoranthene	<5	-	-	-	5	µg/L
Benzo(g,h,i)perylene	<5	-	-	-	5	µg/L
Benzo(a)pyrene	<5	-	-	-	5	µg/L
Bis(2-chloroethoxy)methane	<5	-	-	-	5	µg/L
Bis(2-chloroethyl)ether	<5	-	-	-	5	µg/L
Bis(2-chloroisopropyl)ether	<5	-	-	-	5	µg/L
Bis(2-ethylhexyl)phthalate	<5	-	-	-	5	µg/L
4-Bromophenylphenylether	<5	-	-	-	5	µg/L
Butyl benzyl phthalate	<5	-	-	-	5	µg/L
2-Chloronaphthalene	<5	-	-	-	5	µg/L
4-Chlorophenylphenylether	<5	-	-	-	5	µg/L
Chrysene	<5	-	-	-	5	µg/L
Dibenz(a,h)anthracene	<5	-	-	-	5	µg/L
Di-n-butyl phthalate	<5	-	-	-	5	µg/L
1,2-Dichlorobenzene	<5	-	-	-	5	µg/L
1,3-Dichlorobenzene	<5	-	-	-	5	µg/L
1,4-Dichlorobenzene	<5	-	-	-	5	µg/L
3,3'-Dichlorobenzidine	<5	-	-	-	5	µg/L
Diethyl phthalate	<5	-	-	-	5	µg/L
Dimethyl phthalate	<5	-	-	-	5	µg/L
2,4-Dinitrotoluene	<5	-	-	-	5	µg/L
2,6-Dinitrotoluene	<5	-	-	-	5	µg/L
Di-n-octyl phthalate	<5	-	-	-	5	µg/L
Fluoranthene	<5	-	-	-	5	µg/L
Fluorene	<5	-	-	-	5	µg/L
Hexachlorobenzene	<5	-	-	-	5	µg/L
Hexachlorobutadiene	<5	-	-	-	5	µg/L
Hexachlorocyclopentadiene	<5	-	-	-	5	µg/L
Hexachloroethane	<5	-	-	-	5	µg/L
Indeno(1,2,3-cd)pyrene	<5	-	-	-	5	µg/L
Isophorone	<5	-	-	-	5	µg/L
Naphthalene	<5	-	-	-	5	µg/L

NCDENR

North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor
William G. Ross Jr., Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

April 14, 2005

Michael and Mary Cox
P.O. Box 383
Mount Holly, North Carolina 28120

RE: Sample Results
Cox Water Supply Well (WSW-4)
517 Flat Rock Cemetery Road
Mount Holly, Gaston County

Dear Mr. and Mrs. Cox:

On February 28, 2005, Froehling and Robertson, Inc. personnel, representatives of North Carolina Forest Service, sampled your water supply well. The sample was analyzed for volatile and semi-volatile organic compounds. Volatile and semi-volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers. The February 28, 2005 sample detected 1,2,3-trichloro-1-propane, 4-hydroxy-4methyl-2-pentanone, 5-methyl-1-hepten-4-ol, and acetic acid in the well water.

Laboratory results from these samples are summarized below. These results represent the conditions in your well at the time of sampling:

Compound	Concentration*	NC Maximum Allowable Concentration
1,2,3-trichloro-1-propene	6.0 ug/L	Laboratory Method Detection Limit
4-hydroxy-4-methyl-2-pentanone	15 ug/L	Laboratory Method Detection Limit
5-methyl-1-hepten-4-ol	12 ug/L	Laboratory Method Detection Limit
acetic acid	108 ug/L	Laboratory Method Detection Limit

*ug/L – parts per billion

I have forwarded a copy of the laboratory analytical report to Dr. Ken Rudo, of the Occupational and Environmental Epidemiology Branch of the Division of Public Health, and requested a Health Risk Evaluation. If you have any questions, please contact me at the address or telephone number provided. Dr. Rudo can be reached at (919) 715-6430.

Sincerely,

Brad C. Newton, P.G.
Hydrogeologist II
Mooresville Regional Office

Attachments
cc: James Thompson – Gaston County Health Department
Bruce Parris - Aquifer Protection Section, MRO

SINCE 1881

LAB #	0503024-05	0503024-06	0503024-07	0503024-08		
SAMPLE ID	MW-11	MW-12	WSW-2	WSW-4		
DATE/TIME	02/28/05	02/28/05	02/28/05	02/28/05	Quant	
MATRIX	Water	Water	Water	Water	Limit:	Units
Semivolatile Organic Compounds (continued)						
Hexachlorobutadiene	<5	<5	<5	<5	5	µg/L
Hexachlorocyclopentadiene	<5	<5	<5	<5	5	µg/L
Hexachloroethane	<5	<5	<5	<5	5	µg/L
Indeno(1,2,3-cd)pyrene	<5	<5	<5	<5	5	µg/L
Isophorone	<5	<5	<5	<5	5	µg/L
Naphthalene	<5	<5	<5	<5	5	µg/L
Nitrobenzene	<5	<5	<5	<5	5	µg/L
N-Nitrosodimethylamine	<5	<5	<5	<5	5	µg/L
N-Nitrosodiphenylamine	<5	<5	<5	<5	5	µg/L
N-Nitroso-di-n-propylamine	<5	<5	<5	<5	5	µg/L
Phenanthrene	<5	<5	<5	<5	5	µg/L
Pyrene	<5	<5	<5	<5	5	µg/L
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5	µg/L
Biphenyl	<5	<5	<5	<5	5	µg/L
Semivolatile Organic Compound Library Search (Water)						
1,2,3-trichloro-1-propene	-	-	-	**6 [5]**		µg/L
4-hydroxy-4-methyl-2-pentanone	-	**30 [3]**	**21 [2]**	**15 [3]**		µg/L
5-methyl-1-hepten-4-ol	-	-	-	**12 [1]**		µg/L
Acetic acid, pentyl ester	-	**147 [4]**	**131 [4]**	**108 [4]**		µg/L
Caprolactam	-	**210 [9]**	-	-		µg/L
No non target compounds were detected	**0**	-	-	-		µg/L
Unknown compound	-	**10**	-	-		µg/L

SINCE 1881

LAB #	0503024-05	0503024-06	0503024-07	0503024-08		
SAMPLE ID	MW-11	MW-12	WSW-2	WSW-4		
DATE/TIME	02/28/05	02/28/05	02/28/05	02/28/05	Quant	
MATRIX	Water	Water	Water	Water	Limit:	Units
Semivolatile Organic Compounds (Water)						
Acenaphthene	<5	<5	<5	<5	5	µg/L
Acenaphthylene	<5	<5	<5	<5	5	µg/L
Anthracene	<5	<5	<5	<5	5	µg/L
Benzidine	<5	<5	<5	<5	5	µg/L
Benzo(a)anthracene	<5	<5	<5	<5	5	µg/L
Benzo(b)fluoranthene	<5	<5	<5	<5	5	µg/L
Benzo(k)fluoranthene	<5	<5	<5	<5	5	µg/L
Benzo(g,h,i)perylene	<5	<5	<5	<5	5	µg/L
Benzo(a)pyrene	<5	<5	<5	<5	5	µg/L
Bis(2-chloroethoxy)methane	<5	<5	<5	<5	5	µg/L
Bis(2-chloroethyl)ether	<5	<5	<5	<5	5	µg/L
Bis(2-chloroisopropyl)ether	<5	<5	<5	<5	5	µg/L
Bis(2-ethylhexyl)phthalate	<5	<5	<5	<5	5	µg/L
4-Bromophenylphenylether	<5	<5	<5	<5	5	µg/L
Butyl benzyl phthalate	<5	<5	<5	<5	5	µg/L
2-Chloronaphthalene	<5	<5	<5	<5	5	µg/L
4-Chlorophenylphenylether	<5	<5	<5	<5	5	µg/L
Chrysene	<5	<5	<5	<5	5	µg/L
Dibenz(a,h)anthracene	<5	<5	<5	<5	5	µg/L
Di-n-butyl phthalate	<5	<5	<5	<5	5	µg/L
1,2-Dichlorobenzene	<5	<5	<5	<5	5	µg/L
1,3-Dichlorobenzene	<5	<5	<5	<5	5	µg/L
1,4-Dichlorobenzene	<5	<5	<5	<5	5	µg/L
3,3'-Dichlorobenzidine	<5	<5	<5	<5	5	µg/L
Diethyl phthalate	<5	<5	<5	<5	5	µg/L
Dimethyl phthalate	<5	<5	<5	<5	5	µg/L
2,4-Dinitrotoluene	<5	<5	<5	<5	5	µg/L
2,6-Dinitrotoluene	<5	<5	<5	<5	5	µg/L
Di-n-octyl phthalate	<5	<5	<5	<5	5	µg/L
Fluoranthene	<5	<5	<5	<5	5	µg/L
Fluorene	<5	<5	<5	<5	5	µg/L
Hexachlorobenzene	<5	<5	<5	<5	5	µg/L

NCDENR

North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor
William G. Ross Jr., Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

April 14, 2005

Michael and Mary Cox
P.O. Box 383
Mount Holly, North Carolina 28120

RE: Sample Results
Cox Water Supply Well (WSW-2)
511 Flat Rock Cemetery Road
Mount Holly, Gaston County

Dear Mr. and Mrs. Cox:

On February 28, 2005, Froehling and Robertson, Inc. personnel, representatives of North Carolina Forest Service, sampled your water supply well. The sample was analyzed for volatile and semi-volatile organic compounds. Volatile and semi-volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers. The February 28, 2005 sample detected 4-hydroxy-4methyl-2-pentanone, and acetic acid in the well water.

Laboratory results from these samples are summarized below. These results represent the conditions in your well at the time of sampling:

Compound	Concentration*	NC Maximum Allowable Concentration
1,2,3-trichloro-1-propene	21 ug/L	Laboratory Method Detection Limit
acetic acid	131 ug/L	Laboratory Method Detection Limit

*ug/L – parts per billion

I have forwarded a copy of the laboratory analytical report to Dr. Ken Rudo, of the Occupational and Environmental Epidemiology Branch of the Division of Public Health, and requested a Health Risk Evaluation. If you have any questions, please contact me at the address or telephone number provided. Dr. Rudo can be reached at (919) 715-6430.

Sincerely,

Brad C. Newton, P.G.
Hydrogeologist II
Mooresville Regional Office

Attachments

cc: James Thompson – Gaston County Health Department
Bruce Parris - Aquifer Protection Section, MRO

SINCE 1881

LAB #	0503024-05	0503024-06	0503024-07	0503024-08		
SAMPLE ID	MW-11	MW-12	WSW-2	WSW-4		
DATE/TIME	02/28/05	02/28/05	02/28/05	02/28/05	Quant	
MATRIX	Water	Water	Water	Water	Limit:	Units
Semivolatile Organic Compounds (continued)						
Hexachlorobutadiene	<5	<5	<5	<5	5	µg/L
Hexachlorocyclopentadiene	<5	<5	<5	<5	5	µg/L
Hexachloroethane	<5	<5	<5	<5	5	µg/L
Indeno(1,2,3-cd)pyrene	<5	<5	<5	<5	5	µg/L
Isophorone	<5	<5	<5	<5	5	µg/L
Naphthalene	<5	<5	<5	<5	5	µg/L
Nitrobenzene	<5	<5	<5	<5	5	µg/L
N-Nitrosodimethylamine	<5	<5	<5	<5	5	µg/L
N-Nitrosodiphenylamine	<5	<5	<5	<5	5	µg/L
N-Nitroso-di-n-propylamine	<5	<5	<5	<5	5	µg/L
Phenanthrene	<5	<5	<5	<5	5	µg/L
Pyrene	<5	<5	<5	<5	5	µg/L
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5	µg/L
Biphenyl	<5	<5	<5	<5	5	µg/L
Semivolatile Organic Compound Library Search (Water)						
1,2,3-trichloro-1-propene	-	-	-	**6 [5]**		µg/L
4-hydroxy-4-methyl-2-pentanone	-	**30 [3]**	**21 [2]**	**15 [3]**		µg/L
5-methyl-1-hepten-4-ol	-	-	-	**12 [1]**		µg/L
Acetic acid, pentyl ester	-	**147 [4]**	**131 [4]**	**108 [4]**		µg/L
Caprolactam	-	**210 [9]**	-	-		µg/L
No non target compounds were detected	**0**	-	-	-		µg/L
Unknown compound	-	**10**	-	-		µg/L

SINCE 1881

LAB #	0503024-05	0503024-06	0503024-07	0503024-08		
SAMPLE ID	MW-11	MW-12	WSW-2	WSW-4		
DATE/TIME	02/28/05	02/28/05	02/28/05	02/28/05	Quant	
MATRIX	Water	Water	Water	Water	Limit:	Units
Semivolatile Organic Compounds (Water)						
Acenaphthene	<5	<5	<5	<5	5	µg/L
Acenaphthylene	<5	<5	<5	<5	5	µg/L
Anthracene	<5	<5	<5	<5	5	µg/L
Benzidine	<5	<5	<5	<5	5	µg/L
Benzo(a)anthracene	<5	<5	<5	<5	5	µg/L
Benzo(b)fluoranthene	<5	<5	<5	<5	5	µg/L
Benzo(k)fluoranthene	<5	<5	<5	<5	5	µg/L
Benzo(g,h,i)perylene	<5	<5	<5	<5	5	µg/L
Benzo(a)pyrene	<5	<5	<5	<5	5	µg/L
Bis(2-chloroethoxy)methane	<5	<5	<5	<5	5	µg/L
Bis(2-chloroethyl)ether	<5	<5	<5	<5	5	µg/L
Bis(2-chloroisopropyl)ether	<5	<5	<5	<5	5	µg/L
Bis(2-ethylhexyl)phthalate	<5	<5	<5	<5	5	µg/L
4-Bromophenylphenylether	<5	<5	<5	<5	5	µg/L
Butyl benzyl phthalate	<5	<5	<5	<5	5	µg/L
2-Chloronaphthalene	<5	<5	<5	<5	5	µg/L
4-Chlorophenylphenylether	<5	<5	<5	<5	5	µg/L
Chrysene	<5	<5	<5	<5	5	µg/L
Dibenz(a,h)anthracene	<5	<5	<5	<5	5	µg/L
Di-n-butyl phthalate	<5	<5	<5	<5	5	µg/L
1,2-Dichlorobenzene	<5	<5	<5	<5	5	µg/L
1,3-Dichlorobenzene	<5	<5	<5	<5	5	µg/L
1,4-Dichlorobenzene	<5	<5	<5	<5	5	µg/L
3,3'-Dichlorobenzidine	<5	<5	<5	<5	5	µg/L
Diethyl phthalate	<5	<5	<5	<5	5	µg/L
Dimethyl phthalate	<5	<5	<5	<5	5	µg/L
2,4-Dinitrotoluene	<5	<5	<5	<5	5	µg/L
2,6-Dinitrotoluene	<5	<5	<5	<5	5	µg/L
Di-n-octyl phthalate	<5	<5	<5	<5	5	µg/L
Fluoranthene	<5	<5	<5	<5	5	µg/L
Fluorene	<5	<5	<5	<5	5	µg/L
Hexachlorobenzene	<5	<5	<5	<5	5	µg/L