1811IHSSF1120

DocumentID	NONCD0002813
Site Name	OLD MOUNTAIN RD WATER SUPPLY WELLS
DocumentType	Correspondence (C)
RptSegment	1
DocDate	10/12/1993
DocRcvd	2/20/2007
Box	SF1120
AccessLevel	PUBLIC
Division	WASTE MANAGEMENT
Section	SUPERFUND
Program	IHS (IHS)
DocCat	FACILITY

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Vivian Burke, Regional Manager

DEHNR

DIVISION OF ENVIRONMENTAL MANAGEMENT

October 12, 1993

Mr. Richard Blankenship
Melson Enterprises
Post Office Box 37
Barium Springs, North Carolina 28010

RE: Well Water Sample Results
Melson Enterprises Well
Iredell County, N.C.

Dear Mr. Blankenship:

On August 18, 1993 staff from the Mooresville Regional Office of the North Carolina Division of Environmental Management sampled your well on Highway 21 in Troutman, North Carolina. The samples were analyzed for volatile organic compounds. Volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers.

Laboratory results from these samples indicate at the time of sampling that one volatile organic compound was present in your water supply. A copy of the laboratory results is enclosed for your review. These results are:

Compound	Concentration*	EPA Drinking Water Standards*
tetrachloroethylene	.63	5

*Concentration in micrograms per liter (ug/l), which is also parts per billion (ppb).

This compound does not exceed the drinking water standards. Should you have questions, please call me at (704) 663-1699, ext. 235.

Sincerely,

Chris DeRoller
Hydrogeologist

Enclosure: Lab Results
cc: Iredell County Health Department
CMD/sc

COUNTY [illegible]

QUAD NO. 266n-3 V and 12/7/93 SERIAL NO.

LAT. 35° 42' 52" LONG. 80° 53' 55"

North Carolina
Department of Environment, Health, and Natural Resources
Division of Environmental Management
Groundwater Field/Lab Form

CHAIN OF CUSTODY

LAB NUMBER B 25319

DATE RECEIVED 8-19-93 Time 9:00

Rec'd by: DS From: Bus Courier

Other

DATA ENTRY BY: JH CK: DS

DATE REPORTED: 9/13/93

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

SAMPLE PRIORITY

[X] ROUTINE [ ] EMERGENCY

COLLECTOR(S): DeBolter/Bierney DATE 8/18/9 TIME 10:25 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER Poll. Inv. (circle one)

FIELD ANALYSES

pH_{400} 6.5 Spec. Cond.$_{94}$ 50 at 25°C

Temp.$_{10}$ 21 °C Odor N/A

Appearance Clear Taste N/A

Field Analysis By: DeBolter

Owner Richard Blankenship - Melson Enterprises P.O. Box 37

Location or site ≈ .4 miles N of old Mt. Rd on W. side of Hwy 21 Barium Springs 28010

Description of sampling point In-in / Bstr Gdn

Sampling Method Pump (pump, bailer, etc.) Sample Interval ≈ 300' deep

Remarks (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 446	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

N. C. DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
SEP 15 1993
DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

	Ag - Silver 1077	ug/l
	Al - Aluminum 1106	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
X	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 REV. 9/90

For Dissolved Analysis - submit filtered sample and write "D" in block

White Copy - Groundwater Central Office Yellow Copy - Regional Office Pink Copy - Central Files Goldenrod Copy - Lab

3HNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 3G1379

REPORTED BY
CHECKED BY
REVIEWED BY

SUPERVISOR RPK
DATE 9/13/93
ENTERED BY
CHECKED BY DS

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
75-35-4	1,1-Dichloroethene	0.75	U
75-09-2	Methylene Chloride	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.75	U
75-34-3	1,1-Dichloroethane	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U
67-66-3	Chloroform	0.25	U
74-97-5	Bromochloromethane	0.75	U
71-55-6	1,1,1-Trichloroethane	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
74-95-3	Dibromomethane	1	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U
127-18-4	Tetrachloroethene	0.25	0.63
142-28-9	1,3-Dichloropropane	0.25	U
124-48-1	Dibromochloromethane	0.75	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	0.25	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
96-18-4	1,2,3-Trichloropropane	0.25	U
108-86-1	Bromobenzene	1	U
95-49-8	2-Chlorotoluene	0.25	U
106-43-4	4-Chlorotoluene	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	0.25	U
87-68-3	Hexachlorobutadiene	0.25	U
87-61-6	1,2,3-Trichlorobenzene	0.75	U
1634-04-4	Methyl-tert-butyl ether	5	U
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethyl benzene	1	U
108-38-3	m,p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
91-20-3	Naphthalene	1	U

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks) — Detected ug/l

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC/PID.

COMMENTS:

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary

DEHNR

DIVISION OF WATER QUALITY

September 10, 1996

Miss Willie L. Knox
136 Orchard Lane
Statesville, North Carolina 28677

RE: Well Water Sample Results
Knox Well
Iredell County, N.C.

Dear Miss Knox:

On August 13, 1996, staff from the Mooresville Regional Office of the North Carolina Division of Water Quality sampled your well at the above address. The samples were analyzed for volatile organic compounds. Volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers.

Laboratory results from these samples indicate at the time of sampling that volatile organic compounds, which were tested for, were not present in your water supply.

Should you have any questions, please call me at (704) 663-1699, ext. 234.

Sincerely,

Paul R. Dahlen, P.G.
Hydrogeologist

Enclosure: Lab Results

cc: Iredell County Health Department

919 North Main Street,
Mooresville, North Carolina 28115
Voice 704-663-1699

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old mountain Rd. site

DIVISION OF ENVIRONMENTAL MANAGEMENT

Chemistry Laboratory Report / Ground Water Quality

N.C. DEPT. OF ENVIRONMENT, HEALTH, & NATURAL RESOURCES

AUG 27 1996

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

Lab Number :	6G1767
Date Received :	8/14/96
Time Received :	8:50 AM
Received By :	DS
Released By	
Date reported	8/21/96

COUNTY : IREDELL
QUAD NO:

REPORT TO : MRO Regional Office
COLLECTOR(S) : FINLEY
DATE: 8/13/96
TIME:
PURPOSE:

SAMPLE PRIORITY
[X] ROUTINE [ ] EMERGENCY
[X] CHAIN OF CUSTODY
[W] SAMPLE TYPE

Owner: WILLIE KNOX
Location or Site:
Description of sampling point
Sampling Method:
Remarks:

LABORATORY ANALYSIS

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC	mg/l
	Turbitity	NTU
	Residue., Suspended 530	mg/L
	Total Suspended solids	mg/L
	pH	units
	Alkalinity to pH 4.5	mg/L
	Alkalinity to pH 8.3	mg/L
	Carbonate	mg/L
	Bicarbonate	mg/L
	Carbon dioxide	mg/L
	Chloride	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	c.u.
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: total 900	mg/L
	Hardness: (non-carb) 902	mg/L
	Phenols 32730	ug/L
	Specific Cond. 95	uMhos/cm2
	Sulfate	mg/L
	Sulfide 745	mg/L
	MBAS	mg/L
	Oil and Grease	mg/L
	Silica	mg/L
	Boron	
	NH3 as N 610	mg/L
	TKN as N 625	mg/L
	NO2 +NO3 as n 630	mg/L
	P: Total as P 665	mg/L
	PO4	mg/L

	Ag-Silver 46566	ug/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadium 46559	ug/L
	Cr-Chromium 46560	ug/L
	Cu- Copper 1042	ug/L
	Fe- Iron 1045	ug/L
	Hg- Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg- Magnesium 927	mg/L
	Mn-Manganese 1055	ug/L
	Na- Sodium 929	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn_Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	Semivolatiles
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

COMMENTS :

6G1767.AUG

GROUNDWATER FIELD/LAB FORM CHAIN OF CUSTODY

North Carolina
Department of Environment, Health, and Natural Resources
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION

County: Iredell
Quad No. L66 0-1 Serial No.
Lat. 35°42'48" Long. 80°54'04"

SAMPLE PRIORITY
[✓] ROUTINE [ ] EMERGENCY
[✓] CHAIN OF CUSTODY

Lab Number: 6G 1767
Date Received: 8/14/96 Time: 8:50
Rec'd by: DS From: Bus, Courier, Hand Del.,
Other:
Data Entry By: Ck:
Date Reported:

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:
Shipped by: Bus, Courier, Hand Del., Other:
Collector(s): M Finley Date 8/13/96 Time 12 40 pm
Purpose: Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other: Pollution monitoring (circle one)

FIELD ANALYSES

pH_{400} 6.0 Spec. Cond.$_{94}$ 42 at 25° C
Temp.$_{10}$ 21 °C Odor
Appearance clear, colorless
Field Analysis By: M Finley

Owner: Willie L. Knox
Location or site: 136 Orchard Lane Troutman
Description of sampling point: tap at back of house
Sampling Method: pump (Pump, bailer, etc.) Sample Interval:
Remarks: pumped ~5 minutes before sampling (pumping time, air temp. etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 46566	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Flouride 951	mg/l		Al - Aluminum 46557	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness: Total 900	mg/l		As - Arsenic 46551	ug/l		Nitrogen Pesticides
	Coliform: MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ba - Barium 46558	ug/l		
	Coliform: MF Total 31504	/100ml		Phenols 32730	ug/l		Ca - Calcium 46552	mg/l		Acid Herbicides
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Cd - Cadmium 46559	ug/l		
	Turbidity 76	NTU		Sulfate 945	mg/l		Cr - Chromium 46560	ug/l		Semivolatile Organics
	Residue., Suspended 530	mg/l		Sulfide 745	mg/l		Cu - Copper 46562	ug/l		
							Fe - Iron 46563	ug/l		
							Hg - Mercury 71900	ug/l	X	Volatile Organics (VOA bottle)
	pH 403	units					K - Potassium 46555	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 46554	mg/l		TPH - Gasoline Range
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 46565	ug/l		TPH - BTEX Gasoline Range
	Carbonate 445	mg/l		NH_3 as N 610	mg/l		Na - Sodium 46556	mg/l		
	Bicarbonate 440	mg/l		TKN as N 625	mg/l		Ni - Nickel	ug/l		
	Carbon dioxide 405	mg/l		NO_2 + NO_3 as N 630	mg/l		Pb - Lead 46564	ug/l		
	Chloride 940	mg/l		P: Total as P 665	mg/l		Se - Selenium	ug/l		
	Chromium: Hex 1032	ug/l					Zn - Zinc 46567	ug/l		
	Color: True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments:

GW-54 REV. 6/93 For Dissolved Analysis - submit filtered sample and write "DIS" in block.

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 6G1767

REPORTED BY BWC BWC
CHECKED BY ABC
REVIEWED BY ABC

SUPERVISOR REK
DATE 8/19/96
ENTERED BY DS
DATE 8/20/96

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L	CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L
75-35-4	1,1-Dichloroethene	0.75	U	96-18-4	1,2,3-Trichloropropane	0.25	U
75-09-2	Methylene Chloride	10	U	108-86-1	Bromobenzene	1	U
156-60-5	trans-1,2-Dichloroethene	0.75	U	95-49-8	2-Chlorotoluene	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U	106-43-4	4-Chlorotoluene	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U	541-73-1	1,3-Dichlorobenzene	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	U
67-66-3	Chloroform	0.25	U	95-50-1	1,2-Dichlorobenzene	0.25	U
74-97-5	Bromochloromethane	0.75	U	96-12-8	1,2-Dibromo-3-Chloropropane	1	U
71-55-6	1,1,1-Trichloroethane	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U	87-68-3	Hexachlorobutadiene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U	87-61-6	1,2,3-Trichlorobenzene	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	5	U
79-01-6	Trichloroethene	0.25	U	71-43-2	Benzene	1	U
78-87-5	1,2-Dichloropropane	0.25	U	108-88-3	Toluene	1	U
75-27-4	Bromodichloromethane	0.25	U	100-41-4	Ethyl benzene	1	U
74-95-3	Dibromomethane	1	U	108-38-3	m,p-Xylenes	2	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U	95-47-6	o-Xylene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U	100-42-5	Styrene	1	U
79-00-5	1,1,2-Trichloroethane	0.25	U	98-82-8	Isopropylbenzene	1	U
127-18-4	Tetrachloroethene	0.25	U	103-65-1	n-Propylbenzene	1	U
142-28-9	1,3-Dichloropropane	0.25	U	108-67-8	1,3,5-Trimethylbenzene	1	U
124-48-1	Dibromochloromethane	0.75	U	98-06-6	tert-Butylbenzene	1	U
106-93-4	1,2-Dibromoethane	1	U	95-63-6	1,2,4-Trimethylbenzene	1	U
108-90-7	Chlorobenzene	0.25	U	135-98-8	sec-Butylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U	99-87-6	p-isopropyltoluene	1	U
75-25-2	Bromoform	0.5	U	104-51-8	n-Butylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U	91-20-3	Naphthalene	1	U

	mg/L	mg/L
Gasoline Range Estimated Total Petroleum Hydrocarbon	0.25	N

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks) — Detected ug/L

NO VOLATILE ORGANIC COMPOUNDS
DETECTED BY GC/ELCD/PID.

COMMENTS:

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary

DEHNR

DIVISION OF WATER QUALITY

September 10, 1996

Robert Little
Post Office Box 982
Troutman, North Carolina 28166

RE: Health Risk Evaluation
Little Well
Iredell County

Dear Mr. Little:

I have enclosed the health risk evaluation for the water sample taken from your well on July 11, 1996. If you have any questions, please call me at (704) 663-1699, ext. 234.

Sincerely,

Paul R. Dahlen, P.G.
Hydrogeologist

Enclosures

\prd\little.ltr

919 North Main Street,
Mooresville, North Carolina 28115
Voice 704-663-1699

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North Carolina Department of Environment, Health, & Natural Resources
Division of Epidemiology
Environmental Epidemiology Section

Drinking Water Health Risk Evaluation
General

Iredell COUNTY

DATE 8/19/96 LABORATORY NUMBER 661488

(✓) 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 or Dr. Luanne Williams, Environmental Epidemiology Section, (919) 733-3410.

DEHNR 3891 (5/92)
Environmental Epidemiology Section (Review 5/95)

PURPOSE: To convey meaningful health-based recommendations about continued use of drinking water which may contain chemical contaminants.

PREPARATION:

1) Public health toxicologist prepares original.

2) Three (3) copies are made and sent to Environmental Health Section for distribution (1 copy for Environmental Health Section, 1 copy for local health department, and 1 copy for well owner(s).

DISPOSITION:

Environmental Epidemiology Section: This form will be kept within the Section for five (5) years and transferred to Records Services for five (5) years, then destroyed.

Recipient Agencies: This form will be used as guidance for the specific well sample(s) indicated, retained until need ends, then destroyed.

DIVISION OF ENVIRONMENTAL MANAGEMENT

Chemistry Laboratory Report / Ground Water Quality

Lab Number :	6G1488
Date Received :	7/12/96
Time Received :	9:30 AM
Received By :	DS
Released By :	
Date reported	7/31/96

COUNTY : IREDELL
QUAD NO:

REPORT TO : ROBERT LITTLE Regional Office
COLLECTOR(S) :
DATE: 7/11/96
TIME:
PURPOSE:

SAMPLE PRIORITY

[X] ROUTINE [ ] EMERGENCY

[X] CHAIN OF CUSTODY

[W] SAMPLE TYPE

Owner: ROBERT LITTLE
Location or Site:
Description of sampling point
Sampling Method:
Remarks:

N.C. DEPT. OF ENVIRONMENT, HEALTH, & NATURAL RESOURCES

AUG 5 1996

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

LABORATORY ANALYSIS

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC	mg/l
	Turbidity	NTU
	Residue., Suspended 530	mg/L
	Total Suspended solids	mg/L
	pH	units
	Alkalinity to pH 4.5	mg/L
	Alkalinity to pH 8.3	mg/L
	Carbonate	mg/L
	Bicarbonate	mg/L
	Carbon dioxide	mg/L
	Chloride	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	c u
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: total 900	mg/L
	Hardness: (non-carb) 902	mg/L
	Phenols 32730	ug/L
	Specific Cond. 95	uMhos/cm2
	Sulfate	mg/L
	Sulfide 745	mg/L
	MBAS	mg/L
	Oil and Grease	mg/L
	Silica	mg/L
	Boron	
	NH3 as N 610	mg/L
	TKN as N 625	mg/L
	NO2 +NO3 as n 630	mg/L
	P. Total as P 665	mg/L
	PO4	mg/L

	Ag-Silver 46566	ug/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadium 46559	ug/L
	Cr-Chromium 46560	ug/L
	Cu- Copper 1042	ug/L
	Fe- Iron 1045	ug/L
	Hg- Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg- Magnesium 927	mg/L
	Mn-Manganese 1055	ug/L
	Na- Sodium 929	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn_Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	Semivolatiles
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

COMMENTS :

6G1488 JUL

GROUNDWATER FIELD/LAB FORM

North Carolina
Department of Environment, Health, and Natural Resources
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION

~~CHAIN OF CUSTODY~~

N.C. DEPT. ENVIRONMENT & NAT. RES. AUG DIVISION OF ENVIRONMENTAL MANAGEMENT MOORESVILLE REGIONAL OFFICE

County Iredell
Quad No. L66h-2 Serial No.
Lat. 35°42'46" Long. 80°53'54"

SAMPLE PRIORITY

☑ ROUTINE ☐ EMERGENCY
☑ CHAIN OF CUSTODY

Lab Number 6G1488
Date Received 7/12/96 Time 9:30
Rec'd by: DD From: Bus, Courier, Hand Del.,
Other:
Data Entry By: Ck:
Date Reported:

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:
Shipped by: Bus, Courier, Hand Del., Other:
Collector(s): Date 7/11/96 Time 11:20 am

Purpose: Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other: Pollution monitoring (circle one)

FIELD ANALYSES

pH_{400} 6.2 Spec. Cond.$_{94}$ 35 at 25° C
Temp.$_{10}$ 20 °C Odor
Appearance Clear colorless
Field Analysis By: M Bailey

Owner Robert Little
Location or site Orchard Lane Troutman
Description of sampling point hose bibb at front of house
Sampling Method pump (Pump, bailer, etc.) Sample Interval
Remarks pumped ~5 minutes before sampling (pumping time, air temp. etc.)

P.O. Box 982 Troutman

LABORATORY ANALYSES

	BOD, 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 46566	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Flouride 951	mg/l		Al - Aluminum 46557	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness: Total 900	mg/l		As - Arsenic 46551	ug/l		Nitrogen Pesticides
	Coliform: MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ba - Barium 46558	ug/l		
	Coliform: MF Total 31504	/100ml		Phenols 32730	ug/l		Ca - Calcium 46552	mg/l		Acid Herbicides
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Cd - Cadmium 46559	ug/l		
	Turbidity 76	NTU		Sulfate 945	mg/l		Cr - Chromium 46560	ug/l		Semivolatile Organics
	Residue., Suspended 530	mg/l		Sulfide 745	mg/l		Cu - Copper 46562	ug/l		
							Fe - Iron 46563	ug/l		
						X	Hg - Mercury 71900	ug/l		Volatile Organics (VOA bottle)
	pH 403	units					K - Potassium 46555	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 46554	mg/l		TPH - Gasoline Range
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 46565	ug/l		TPH - BTEX Gasoline Range
	Carbonate 445	mg/l		NH_3 as N 610	mg/l		Na - Sodium 46556	mg/l		
	Bicarbonate 440	mg/l		TKN as N 625	mg/l		Ni - Nickel	ug/l		√
	Carbon dioxide 405	mg/l		NO_2 + NO_3 as N 630	mg/l		Pb - Lead 46564	ug/l		
	Chloride 940	mg/l		P: Total as P 665	mg/l		Se - Selenium	ug/l		
	Chromium: Hex 1032	ug/l					Zn - Zinc 46567	ug/l		
	Color: True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments:

GW-54 REV. 6/9

For Dissolved Analysis - submit filtered sample and write "DIS" in block.

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 6G1488

REPORTED BY BWC / 7/30/96
CHECKED BY SCK
REVIEWED BY WBC

SUPERVISOR REK
DATE 7/30/96
ENTERED BY DS
DATE 7/31/96

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L	
75-35-4	1,1-Dichloroethene	0.75		U
75-09-2	Methylene Chloride	10		U
156-60-5	trans-1,2-Dichloroethene	0.75		U
75-34-3	1,1-Dichloroethane	0.25		U
590-20-7	2,2-Dichloropropane	0.25		U
156-59-4	cis-1,2-Dichloroethene	0.25		U
67-66-3	Chloroform	0.25		U
74-97-5	Bromochloromethane	0.75		U
71-55-6	1,1,1-Trichloroethane	0.25		U
563-58-6	1,1-Dichloropropene	0.25		U
56-23-5	Carbon Tetrachloride	0.75		U
107-06-2	1,2-Dichloroethane	0.25		U
79-01-6	Trichloroethene	0.25		U
78-87-5	1,2-Dichloropropane	0.25		U
75-27-4	Bromodichloromethane	0.25		U
74-95-3	Dibromomethane	1		U
10061-01-5	cis-1,3-Dichloropropene	0.25		U
10061-02-6	trans-1,3-Dichloropropene	0.25		U
79-00-5	1,1,2-Trichloroethane	0.25		U
127-18-4	Tetrachloroethene	0.25	D T	
142-28-9	1,3-Dichloropropane	0.25		U
124-48-1	Dibromochloromethane	0.75		U
106-93-4	1,2-Dibromoethane	1		U
108-90-7	Chlorobenzene	0.25		U
630-20-6	1,1,1,2-Tetrachloroethane	0.25		U
75-25-2	Bromoform	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.75		U

CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L	
96-18-4	1,2,3-Trichloropropane	0.25		U
108-86-1	Bromobenzene	1		U
95-49-8	2-Chlorotoluene	0.25		U
106-43-4	4-Chlorotoluene	0.25		U
541-73-1	1,3-Dichlorobenzene	0.25		U
106-46-7	1,4-Dichlorobenzene	0.25		U
95-50-1	1,2-Dichlorobenzene	0.25		U
96-12-8	1,2-Dibromo-3-Chloropropane	1		U
120-82-1	1,2,4-Trichlorobenzene	0.25		U
87-68-3	Hexachlorobutadiene	0.25		U
87-61-6	1,2,3-Trichlorobenzene	0.75		U
1634-04-4	Methyl-tert-butyl ether	5		U
71-43-2	Benzene	1		U
108-88-3	Toluene	1		U
100-41-4	Ethyl benzene	1		U
108-38-3	m,p-Xylenes	2		U
95-47-6	o-Xylene	1		U
100-42-5	Styrene	1		U
98-82-8	Isopropylbenzene	1		U
103-65-1	n-Propylbenzene	1		U
108-67-8	1,3,5-Trimethylbenzene	1		U
98-06-6	tert-Butylbenzene	1		U
95-63-6	1,2,4-Trimethylbenzene	1		U
135-98-8	sec-Butylbenzene	1		U
99-87-6	p-isopropyltoluene	1		U
104-51-8	n-Butylbenzene	1		U
91-20-3	Naphthalene	1		U

	mg/L	mg/L	
Gasoline Range Estimated Total Petroleum Hydrocarbon	0.25		N

Other purgeables detected
(up to 10 highest peaks)

Detected ug/L

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY
GC/PID.

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

COMMENTS:

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary

DEHNR

DIVISION OF WATER QUALITY

September 10, 1996

Richard Blankenship
Post Office Box 37
Barium Springs, North Carolina 28010

RE: Health Risk Evaluation
Blankenship Well
Iredell County

Dear Mr. Blankenship:

I have enclosed the health risk evaluation for the water sample taken from your well on July 11, 1996. If you have any questions, please call me at (704) 663-1699, ext. 234.

Sincerely,

Paul R. Dahlen, P.G.
Hydrogeologist

Enclosures

\prd\blank.hrl

919 North Main Street,
Mooresville, North Carolina 28115
Voice 704-663-1699

Reduce Reuse Recycle

FAX 704-663-6040
An Equal Opportunity/Affirmative Action Employer
50% recycled/10% post-consumer paper

North Carolina Department of Environment, Health, & Natural Resources
Division of Epidemiology
Environmental Epidemiology Section

Drinking Water Health Risk Evaluation
General

Fredell COUNTY

DATE 8/19/96 LABORATORY NUMBER 66/489

(✓) 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 or Dr. Luanne Williams, Environmental Epidemiology Section, (919) 733-3410.

DEHNR 3891 (5/92)
Environmental Epidemiology Section (Review 5/95)

PURPOSE: To convey meaningful health-based recommendations about continued use of drinking water which may contain chemical contaminants.

PREPARATION:

1) Public health toxicologist prepares original.

2) Three (3) copies are made and sent to Environmental Health Section for distribution (1 copy for Environmental Health Section, 1 copy for local health department, and 1 copy for well owner(s).

DISPOSITION:

Environmental Epidemiology Section: This form will be kept within the Section for five (5) years and transferred to Records Services for five (5) years, then destroyed.

Recipient Agencies: This form will be used as guidance for the specific well sample(s) indicated, retained until need ends, then destroyed.

DIVISION OF ENVIRONMENTAL MANAGEMENT

Chemistry Laboratory Report / Ground Water Quality

AUG 5 1996

Lab Number :	6G1489
Date Received :	7/12/96
Time Received :	9:30 AM
Received By :	DS
Released By	DS
Date reported :	7/31/96

COUNTY : IREDELL
QUAD NO:

REPORT TO : MRO Regional Office
COLLECTOR(S) : FINLEY
DATE: 7/11/96
TIME:
PURPOSE:

SAMPLE PRIORITY

[X] ROUTINE [ ] EMERGENCY

[X] CHAIN OF CUSTODY

[W] SAMPLE TYPE

Owner: RICHARD BLANKENSHIP
Location or Site:
Description of sampling point
Sampling Method:
Remarks:

LABORATORY ANALYSIS

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC	mg/l
	Turbitity	NTU
	Residue., Suspended 530	mg/L
	Total Suspended solids	mg/L
	pH	units
	Alkalinity to pH 4.5	mg/L
	Alkalinity to pH 8.3	mg/L
	Carbonate	mg/L
	Bicarbonate	mg/L
	Carbon dioxide	mg/L
	Chloride	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	c.u
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: total 900	mg/L
	Hardness: (non-carb) 902	mg/L
	Phenols 32730	ug/L
	Specific Cond. 95	uMhos/cm2
	Sulfate	mg/L
	Sulfide 745	mg/L
	MBAS	mg/L
	Oil and Grease	mg/L
	Silica	mg/L
	Boron	
	NH3 as N 610	mg/L
	TKN as N 625	mg/L
	NO2 +NO3 as n 630	mg/L
	P: Total as P 665	mg/L
	PO4	mg/L

	Ag-Silver 46566	ug/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadium 46559	ug/L
	Cr-Chromium 46560	ug/L
	Cu- Copper 1042	ug/L
	Fe- Iron 1045	ug/L
	Hg- Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg- Magnesium 927	mg/L
	Mn-Manganese 1055	ug/L
	Na- Sodium 929	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn_Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	Semivolatiles
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

COMMENTS :

6G1489.JUL

GROUNDWATER FIELD/LAB FORM

CHAIN OF CUSTODY

North Carolina
Department of Environment, Health, and Natural Resources
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION

County: Iredell
Quad No. L66n7 Serial No.
Lat. 35 42 52 Long. 80 53 55

SAMPLE PRIORITY

☑ ROUTINE ☐ EMERGENCY
☑ CHAIN OF CUSTODY

Lab Number: 6G 1489
Date Received: 7/12/96 Time: 9:30
Rec'd by: DS From: Bus, Courier, Hand Del.,
Other:
Data Entry By: Ck:
Date Reported:

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:
Shipped by: Bus, Courier, Hand Del., Other:
Collector(s): M. Finley Date 7/11/96 Time 12 noon

Purpose: Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other: Pollution monitoring (circle one)

FIELD ANALYSES

pH_{400} 6.4 Spec. Cond.$_{94}$ 90 at 25° C
Temp.$_{10}$ 25 °C Odor
Appearance clear, colorless
Field Analysis By: M Finley

Owner: Richard Blankenship - Nelson Enterprises PO Box 37 Barium Springs 28011
Location or site: ~.4 miles N of Old Mtn Rd. - west side
Description of sampling point: tap in restroom
Sampling Method: pump (Pump, bailer, etc.) Sample Interval
Remarks: pumped ~5 min. before sampling (pumping time, air temp. etc.)

LABORATORY ANALYSES

	BOD, 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 46566	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Flouride 951	mg/l		Al - Aluminum 46557	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness: Total 900	mg/l		As - Arsenic 46551	ug/l		Nitrogen Pesticides
	Coliform: MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ba - Barium 46558	ug/l		
	Coliform: MF Total 31504	/100ml		Phenols 32730	ug/l		Ca - Calcium 46552	mg/l		Acid Herbicides
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Cd - Cadmium 46559	ug/l		
	Turbidity 76	NTU		Sulfate 945	mg/l		Cr - Chromium 46560	ug/l		Semivolatile Organics
	Residue., Suspended 530	mg/l		Sulfide 745	mg/l		Cu - Copper 46562	ug/l		
							Fe - Iron 46563	ug/l		
							Hg - Mercury 71900	ug/l	X	Volatile Organics (VOA bottle)
	pH 403	units					K - Potassium 46555	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 46554	mg/l		TPH - Gasoline Range
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 46565	ug/l		TPH - BTEX Gasoline Range
	Carbonate 445	mg/l		NH_3 as N 610	mg/l		Na - Sodium 46556	mg/l		
	Bicarbonate 440	mg/l		TKN as N 625	mg/l		Ni - Nickel	ug/l		✓
	Carbon dioxide 405	mg/l		NO_2 + NO_3 as N 630	mg/l		Pb - Lead 46564	ug/l		
	Chloride 940	mg/l		P: Total as P 665	mg/l		Se - Selenium	ug/l		
	Chromium: Hex 1032	ug/l					Zn - Zinc 46567	ug/l		
	Color: True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments:

GW-54 REV. 6/9

For Dissolved Analysis - submit filtered sample and write "DIS" in block.

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 6G1489

REPORTED BY BWC
CHECKED BY SCR
REVIEWED BY

SUPERVISOR RGK
DATE 7/30/96
ENTERED BY
DATE 7/31/96

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L	CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L
75-35-4	1,1-Dichloroethene	0.75	U	96-18-4	1,2,3-Trichloropropane	0.25	U
75-09-2	Methylene Chloride	10	U	108-86-1	Bromobenzene	1	U
156-60-5	trans-1,2-Dichloroethene	0.75	U	95-49-8	2-Chlorotoluene	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U	106-43-4	4-Chlorotoluene	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U	541-73-1	1,3-Dichlorobenzene	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	U
67-66-3	Chloroform	0.25	U	95-50-1	1,2-Dichlorobenzene	0.25	U
74-97-5	Bromochloromethane	0.75	U	96-12-8	1,2-Dibromo-3-Chloropropane	1	U
71-55-6	1,1,1-Trichloroethane	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U	87-68-3	Hexachlorobutadiene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U	87-61-6	1,2,3-Trichlorobenzene	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	5	U
79-01-6	Trichloroethene	0.25	U	71-43-2	Benzene	1	U
78-87-5	1,2-Dichloropropane	0.25	U	108-88-3	Toluene	1	U
75-27-4	Bromodichloromethane	0.25	U	100-41-4	Ethyl benzene	1	U
74-95-3	Dibromomethane	1	U	108-38-3	m,p-Xylenes	2	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U	95-47-6	o-Xylene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U	100-42-5	Styrene	1	U
79-00-5	1,1,2-Trichloroethane	0.25	U	98-82-8	Isopropylbenzene	1	U
127-18-4	Tetrachloroethene	0.25	0.30 E	103-65-1	n-Propylbenzene	1	U
142-28-9	1,3-Dichloropropane	0.25	U	108-67-8	1,3,5-Trimethylbenzene	1	U
124-48-1	Dibromochloromethane	0.75	U	98-06-6	tert-Butylbenzene	1	U
106-93-4	1,2-Dibromoethane	1	U	95-63-6	1,2,4-Trimethylbenzene	1	U
108-90-7	Chlorobenzene	0.25	U	135-98-8	sec-Butylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U	99-87-6	p-isopropyltoluene	1	U
75-25-2	Bromoform	0.5	U	104-51-8	n-Butylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U	91-20-3	Naphthalene	1	U

	mg/L	mg/L
Gasoline Range Estimated Total Petroleum Hydrocarbon	0.25	N

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks) — Detected ug/L

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC/PID.

COMMENTS:

DIVISION OF WATER QUALITY

August 15, 1996

MEMORANDUM TO: Dr. Ken Rudo

FROM: Paul Dahlen PD
Mooresville Regional Office

SUBJECT: Request for Health Risk Evaluation
Robertson Rental Trailer Well

I am requesting that a health risk evaluation for sampling results from this water supply well be completed and sent to our office. I will forward your evaluation to the well owner.

If you have questions or need additional information, please call me at (704) 663-1699, ext. 234.

Attachment: Sampling Results

\prd\roberts.re

MW
Bagley

North Carolina Department of Environment, Health, & Natural Resources
Division of Epidemiology
Environmental Epidemiology Section

RECEIVED
MAY 24 1994
POLLUTION CONTROL BRANCH

N.C. DEPT. OF ENVIRONMENT, HEALTH, & NATURAL RESOURCES
JUN 1 1994
DIVISION OF ENVIRONMENTAL MANAGEMENT
ASHEVILLE REGIONAL OFFICE

Drinking Water Health Risk Evaluation
General

Iredell COUNTY

DATE 5/10/94 LABORATORY NUMBER 46333

(✓) 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:
Trace levels should not pose any health risk at this time.

For further information, contact Dr. Ken Rudo or Dr. Luanne Williams, Environmental Epidemiology Section, (919) 733-3410.

DEHNR 3891 (5/92)
Environmental Epidemiology Section (Review 5/95)

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Vivian H. Burke, Regional Manager

DEHNR

DIVISION OF ENVIRONMENTAL MANAGEMENT

May 2, 1994

Ms. Michelle Bagarley
Route 10, Box 319 A
Statesville, North Carolina 28677

RE: Well Water Sample Results
Bagarley Well
Iredell County, N.C.

Dear Ms. Bagarley:

On March 15, 1994 staff from the Mooresville Regional Office of the North Carolina Division of Environmental Management sampled your well at Route 10, Box 319 A, Statesville. The samples were analyzed for volatile organic compounds. Volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers.

Laboratory results from these samples indicate at the time of sampling that one volatile organic compound was present in your water supply. A copy of the laboratory results is enclosed for your review. These results are:

Compound	Concentration*	EPA Drinking Water Standards*
tetrachloroethylene	.37	5

*Concentration in micrograms per liter (ug/l), which is also parts per billion (ppb).

This compound does not exceed the drinking water standard. Should you have questions, please call me at (704) 663-1699, ext. 235.

Sincerely,

Chris DeRoller
Hydrogeologist

Enclosure: Lab Results
cc: Iredell County Health Department
CMD/sc

North Carolina
Department of Environment, Health, and Natural Resources
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION

GROUNDWATER FIELD/LAB FORM

CHAIN OF CUSTODY

Lab Number HG 333
Date Received 3-16-94 Time 8:30
Rec'd by: DS From: Bus, Courier, Hand Del.,
Other:
Data Entry By: JL Ck: DS
Date Reported: 3/15/94

County Iredell
Quad No. L66n-1 Serial No.
Lat. 35° 42' 46" Long. 80° 54' 00"

SAMPLE PRIORITY

[X] ROUTINE [ ] EMERGENCY
[X] CHAIN OF CUSTODY

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:
Shipped by: Bus, Courier, Hand Del., Other:
Collector(s): DeBoller Date 3/15/94 Time 11:55

Purpose: Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other: Resample 36798 (circle one)

Owner Michelle Bagarley
Location or site Route 10, Box 319-A 28677
Description of sampling point Tap at back of house
Sampling Method pump (Pump, bailer, etc.) Sample Interval cont
Remarks Domestic Water Supply well (pumping time, air temp. etc.)

FIELD ANALYSES

pH_{400} _____ Spec. Cond.$_{94}$ _____ at 25° C
Temp.$_{10}$ _____ °C Odor _____
Appearance
Field Analysis By:

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	Residue., Suspended 530	mg/l
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium: Hex 1032	ug/l
	Color: True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Flouride 951	mg/l
	Hardness: Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	Micro mho
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	NO_2 + NO_3 as N 630	mg/l
	P: Total as P 665	mg/l

N.C. DEPARTMENT OF ENVIRONMENT, HEALTH & NATURAL RESOURCES
APR 13
DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

	Ag - Silver 46566	ug/l
	Al - Aluminum 46557	ug/l
	As - Arsenic 46551	ug/l
	Ba - Barium 46558	ug/l
	Ca - Calcium 46552	mg/l
	Cd - Cadmium 46559	ug/l
	Cr - Chromium 46560	ug/l
	Cu - Copper 46562	ug/l
	Fe - Iron 46563	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 46555	mg/l
	Mg - Magnesium 46554	mg/l
	Mn - Manganese 46565	ug/l
	Na - Sodium 46556	mg/l
	Ni - Nickel	ug/l
	Pb - Lead 46564	ug/l
	Se - Selenium	ug/l
	Zn - Zinc 46567	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	Semivolatile Organics
X	Volatile Organics (VOA bottle)
	TPH - Gasoline Range
	TPH - BTEX Gasoline Range

Lab Comments: TAG HAS L67n-1

GW-54 REV. (

For Dissolved Analysis - submit filtered sample and write "DIS" in block.

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 4G333

REPORTED BY
CHECKED BY
REVIEWED BY

SUPERVISOR REK
DATE 4/5/94
ENTERED BY
CHECKED BY

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L	CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L
75-35-4	1,1-Dichloroethene	0.75	U	96-18-4	1,2,3-Trichloropropane	0.25	U
75-09-2	Methylene Chloride	0.25	U	108-86-1	Bromobenzene	1	U
156-60-5	trans-1,2-Dichloroethene	0.75	U	95-49-8	2-Chlorotoluene	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U	106-43-4	4-Chlorotoluene	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U	541-73-1	1,3-Dichlorobenzene	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	U
67-66-3	Chloroform	0.25	U	95-50-1	1,2-Dichlorobenzene	0.25	U
74-97-5	Bromochloromethane	0.75	U	96-12-8	1,2-Dibromo-3-Chloropropane	1	U
71-55-6	1,1,1-Trichloroethane	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U	87-68-3	Hexachlorobutadiene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U	87-61-6	1,2,3-Trichlorobenzene	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	5	U
79-01-6	Trichloroethene	0.25	U	71-43-2	Benzene	1	U
78-87-5	1,2-Dichloropropane	0.25	U	108-88-3	Toluene	1	U
75-27-4	Bromodichloromethane	0.25	U	100-41-4	Ethyl benzene	1	U
74-95-3	Dibromomethane	1	U	108-38-3	m,p-Xylenes	2	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U	95-47-6	o-Xylene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U	100-42-5	Styrene	1	U
79-00-5	1,1,2-Trichloroethane	0.25	U	98-82-8	Isopropylbenzene	1	U
127-18-4	Tetrachloroethene	0.25	0.37	103-65-1	n-Propylbenzene	1	U
142-28-9	1,3-Dichloropropane	0.25	U	108-67-8	1,3,5-Trimethylbenzene	1	U
124-48-1	Dibromochloromethane	0.75	U	98-06-6	tert-Butylbenzene	1	U
106-93-4	1,2-Dibromoethane	1	U	95-63-6	1,2,4-Trimethylbenzene	1	U
108-90-7	Chlorobenzene	0.25	U	135-98-8	sec-Butylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U	99-87-6	p-isopropyltoluene	1	U
75-25-2	Bromoform	0.5	U	104-51-8	n-Butylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U	91-20-3	Naphthalene	1	U

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks)

Detected ug/L

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC PID.

COMMENTS:

COUNTY Iredell

QUAD NO. 66n-SW SERIAL NO. _____

LAT. 35°42' 48" LONG. 80 53' 55"

North Carolina
Department of Environment, Health, and Natural Resources
Division of Environmental Management
Groundwater Field/Lab Form

CHAIN OF CUSTODY

LAB NUMBER 8 561380

DATE RECEIVED 8-19-93 Time 9:00

Rec'd by: DS From: Bus Courier

Other _____

DATA ENTRY BY: JH CK: RS

DATE REPORTED: 9/15/93

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus Courier, Other _____

SAMPLE PRIORITY

☒ ROUTINE ☐ EMERGENCY

Surface Water

COLLECTOR(S): DeRoller/Burney DATE 8/18/93 TIME 10:50 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER Poll. Inv.
(circle one)

FIELD ANALYSES

pH_{400} _____ Spec. Cond.$_{94}$ _____ at 25°C

Temp.$_{10}$ _____ °C Odor _____

Appearance _____ Taste _____

Field Analysis By: _____

Owner Unk

Location or site Dump Site off of old Mt. Road

Description of sampling point Puddle alongside car in creek bed

Sampling Method grab (pump, bailer, etc.) Sample Interval 0-6"

Remarks _____ (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1106	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
X	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)
	~~N. C. DEPT. OF NATURAL~~ RESOURCES AND COMMUNITY DEVELOPMENT
	SEP 22 1993
	DIVISION OF ENVIRONMENTAL MANAGEMENT MOORESVILLE REGIONAL OFFICE

Lab Comments: _____

GW-54 REV. 9/90

For Dissolved Analysis - submit filtered sample and write " " in block

White Copy - Groundwater Central Office Yellow Copy - Regional Office Pink Copy - Central Files Goldenrod Copy - Lab

BHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 3G1380

REPORTED BY
CHECKED BY
REVIEWED BY

SUPERVISOR REK
DATE 9/15/93
ENTERED BY
CHECKED BY

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
75-35-4	1,1-Dichloroethene	0.75	U
75-09-2	Methylene Chloride	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.75	U
75-34-3	1,1-Dichloroethane	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U
67-66-3	Chloroform	0.25	U
74-97-5	Bromochloromethane	0.75	U
71-55-6	1,1,1-Trichloroethane	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
74-95-3	Dibromomethane	1	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U
127-18-4	Tetrachloroethene	0.25	U
142-28-9	1,3-Dichloropropane	0.25	U
124-48-1	Dibromochloromethane	0.75	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	0.25	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
96-18-4	1,2,3-Trichloropropane	0.25	U
108-86-1	Bromobenzene	1	U
95-49-8	2-Chlorotoluene	0.25	U
106-43-4	4-Chlorotoluene	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	0.25	U
87-68-3	Hexachlorobutadiene	0.25	U
87-61-6	1,2,3-Trichlorobenzene	0.75	U
1634-04-4	Methyl-tert-butyl ether	5	U
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethyl benzene	1	U
108-38-3	m,p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
91-20-3	Naphthalene	1	U

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks) — Detected ug/l

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC PID/ELCD.

COMMENTS:

North Carolina Department of Environment, Health, & Natural Resources
Division of Epidemiology
Environmental Epidemiology Section

N. C. DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
RECEIVED
AUG 25 1993
AUG 18 1993
POLLUTION CONTROL BRANCH
DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

Drinking Water Health Risk Evaluation
General

Iredell COUNTY

DATE 8/10/93 LABORATORY NUMBER 36798

(✓) 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 or Dr. Luanne Williams, Environmental Epidemiology Section, (919) 733-3410.

DEHNR 3891 (5/92)
Environmental Epidemiology Section (Review 5/95)

COUNTY Iredell

QUAD NO. Liberty-1 SERIAL NO. _____

LAT. 35 42 12 LONG. 80 53 47

Department of Environment, Health, and Natural Resources
Division of Environmental Management
Groundwater Field/Lab Form

LAB NUMBER # 30 178

DATE RECEIVED 5/20/93 Time 9:15

Rec'd by: DS From: Bus Courier

Other _____

DATA ENTRY BY: _____ CK: DS

DATE REPORTED: 6/8/93

RECEIVED AUG 18 1993 POLLUTION CONTROL BRANCH

CHAIN OF CUSTODY

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

SAMPLE PRIORITY

☑ ROUTINE ☐ EMERGENCY

Shipped by: Bus, Courier, Other _____

COLLECTOR(S): A. Burney R. [illegible] DATE 5/19/93 TIME 8:20 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER _____ (circle one)

FIELD ANALYSES

pH 400 _____ Spec. Cond. 94 _____ at 25°C

Temp. 10 _____ °C Odor none

Appearance clear Taste _____

Field Analysis By: A. Burney

Owner Michelle Baggarley RT 8 Box 852 CC Statesville NC 28677

Location or site Orchard Lane off Old Mountain Road

Description of sampling point Outside tap

Sampling Method _____ (pump, bailer, etc.) Sample Interval _____

Remarks Domestic Supply well (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	
	Color:True 80	
	Cyanide 720	

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1106	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1056	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
✓	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

RECEIVED JUN 15 1993 POLLUTION CONTROL BRANCH

Lab Comments: _____

6-16 JS

GW-54 REV. 9/90

For Dissolved Analysis - submit filtered sample and write "DISS" block

White Copy - Groundwater Central Office Yellow Copy - Regional Office Pink Copy - Central Files Goldenrod Copy - Lab

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 3G 798

REPORTED BY PH
CHECKED BY
REVIEWED BY

SUPERVISOR REK
DATE 6/10/93
ENTERED BY
CHECKED BY DS

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
75-35-4	1,1-Dichloroethene	0.75	U
75-09-2	Methylene Chloride	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.75	U
75-34-3	1,1-Dichloroethane	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U
67-66-3	Chloroform	0.25	D
74-97-5	Bromochloromethane	0.75	U
71-55-6	1,1,1-Trichloroethane	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
74-95-3	Dibromomethane	1	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U
127-18-4	Tetrachloroethene	0.25	0.62
142-28-9	1,3-Dichloropropane	0.25	U
124-48-1	Dibromochloromethane	0.75	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	0.25	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
96-18-4	1,2,3-Trichloropropane	0.25	U
108-86-1	Bromobenzene	1	U
95-49-8	2-Chlorotoluene	0.25	U
106-43-4	4-Chlorotoluene	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	0.25	U
87-68-3	Hexachlorobutadiene	0.25	U
87-61-6	1,2,3-Trichlorobenzene	0.75	U
1634-04-4	Methyl-tert-butyl ether	5	U
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethyl benzene	1	U
108-38-3	m,p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
91-20-3	Naphthalene	1	U

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks)

Detected ug/l

NO VOLATILE ORGANIC COMPOUNDS QUANTITATED BY GC/PID.

COMMENTS:

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Vivian Burke, Regional Manager

DEHNR

DIVISION OF ENVIRONMENTAL MANAGEMENT

June 24, 1993

FAB

Michelle Bagarley
Route ~~8~~,10 Box ~~852 CC~~ 319-A
Statesville, North Carolina 28677

RE: Well Water Sample Results
Bagarley Supply Well
Iredell County, N.C.

Dear Ms. Bagarley:

On May 19, 1993 staff from the Mooresville Regional Office of the North Carolina Division of Environmental Management sampled your well at Route 8, Box 852 CC in Statesville, N. C. The sample was analyzed for volatile organic compounds. Volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers.

Laboratory results from this sample indicate at the time of sampling that a volatile organic compound was present in your water supply. A copy of the laboratory results is enclosed for your review. These results are:

Compound	Concentration*	EPA Drinking Water Standards*
tetrachloroethylene	0.62	5

*Concentration in micrograms per liter (ug/l), which is also parts per billion (ppb).

This compound does not exceed the drinking water standards. I will forward a copy of the laboratory results to the State Toxicologist, however, and request a written evaluation concerning health risks for human consumption. I will forward those comments to you upon receipt.

Should you have questions in the meantime, please call me at (704) 663-1699, ext. 244.

Sincerely,

Arlen Burney

Arlen Burney
Hydrogeologist

Enclosure: Lab Results

cc: Iredell County Health Department

FAB/sc

COUNTY Iredell
QUAD NO. L66NW SERIAL NO. ____
LAT. 35 42 12 LONG. 80 53 47

North Carolina
Department of Environment, Health, and Natural Resources
Division of Environmental Management
Groundwater Field/Lab Form

CHAIN OF CUSTODY

LAB NUMBER 8 3G798
DATE RECEIVED 5/20/93 Time 9:15
Rec'd by: DS From: Bus Courier
Other ____
DATA ENTRY BY: ____ CK: DS
DATE REPORTED: 6/8/93

Report to: ARO, FRO, (MRO), RRO, WaRO, WiRO, WSRO, Kinston FO Other ____
Shipped by: Bus, (Courier), Other ____

SAMPLE PRIORITY
☑ ROUTINE ☐ EMERGENCY

COLLECTOR(S): A. Burney R. Krebs DATE 5-19-93 TIME 8:20 PURPOSE: BASELINE, (COMPLAINT), COMPLIANCE, LUST, OTHER ____ (circle one)

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C
Temp. 10 ____ °C Odor none
Appearance clear Taste ____
Field Analysis By: A. Burney

Owner Michelle Baggarley RT8 Box 852CC Statesville NC 28677
Location or site Orchard Lane off Old Mountain Road
Description of sampling point Outside tap
Sampling Method ____ (pump, bailer, etc.) Sample Interval ____
Remarks Domestic supply well (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

N. C. DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
JUN 14 1993
DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

	Ag - Silver 1077	ug/l
	Al - Aluminum 1106	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1097	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
✓	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments: ____

GW-54 REV. 9/90

For Dissolved Analysis - submit filtered sample and write "DISS" in block
White Copy - Groundwater Central Office Yellow Copy - Regional Office Pink Copy - Central Files Goldenrod Copy - Lab

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 3G 798

REPORTED BY PN
CHECKED BY
REVIEWED BY

SUPERVISOR RGK
DATE 6/10/93
ENTERED BY
CHECKED BY DS

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l	
75-35-4	1,1-Dichloroethene	0.75		U
75-09-2	Methylene Chloride	0.25		U
156-60-5	trans-1,2-Dichloroethene	0.75		U
75-34-3	1,1-Dichloroethane	0.25		U
590-20-7	2,2-Dichloropropane	0.25		U
156-59-4	cis-1,2-Dichloroethene	0.25		U
67-66-3	Chloroform	0.25	D	
74-97-5	Bromochloromethane	0.75		U
71-55-6	1,1,1-Trichloroethane	0.25		U
563-58-6	1,1-Dichloropropene	0.25		U
56-23-5	Carbon Tetrachloride	0.75		U
107-06-2	1,2-Dichloroethane	0.25		U
79-01-6	Trichloroethene	0.25		U
78-87-5	1,2-Dichloropropane	0.25		U
75-27-4	Bromodichloromethane	0.25		U
74-95-3	Dibromomethane	1		U
10061-01-5	cis-1,3-Dichloropropene	0.25		U
10061-02-6	trans-1,3-Dichloropropene	0.25		U
79-00-5	1,1,2-Trichloroethane	0.25		U
127-18-4	Tetrachloroethene	0.25	0.62	
142-28-9	1,3-Dichloropropane	0.25		U
124-48-1	Dibromochloromethane	0.75		U
106-93-4	1,2-Dibromoethane	1		U
108-90-7	Chlorobenzene	0.25		U
630-20-6	1,1,1,2-Tetrachloroethane	0.25		U
75-25-2	Bromoform	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.75		U

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l	
96-18-4	1,2,3-Trichloropropane	0.25		U
108-86-1	Bromobenzene	1		U
95-49-8	2-Chlorotoluene	0.25		U
106-43-4	4-Chlorotoluene	0.25		U
541-73-1	1,3-Dichlorobenzene	0.25		U
106-46-7	1,4-Dichlorobenzene	0.25		U
95-50-1	1,2-Dichlorobenzene	0.25		U
96-12-8	1,2-Dibromo-3-Chloropropane	1		U
120-82-1	1,2,4-Trichlorobenzene	0.25		U
87-68-3	Hexachlorobutadiene	0.25		U
87-61-6	1,2,3-Trichlorobenzene	0.75		U
1634-04-4	Methyl-tert-butyl ether	5		U
71-43-2	Benzene	1		U
108-88-3	Toluene	1		U
100-41-4	Ethyl benzene	1		U
108-38-3	m,p-Xylenes	2		U
95-47-6	o-Xylene	1		U
100-42-5	Styrene	1		U
98-82-8	Isopropylbenzene	1		U
103-65-1	n-Propylbenzene	1		U
108-67-8	1,3,5-Trimethylbenzene	1		U
98-06-6	tert-Butylbenzene	1		U
95-63-6	1,2,4-Trimethylbenzene	1		U
135-98-8	sec-Butylbenzene	1		U
99-87-6	p-isopropyltoluene	1		U
104-51-8	n-Butylbenzene	1		U
91-20-3	Naphthalene	1		U

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks) — Detected ug/l

NO VOLATILE ORGANIC COMPOUNDS QUANTITATED BY GC/PID.

COMMENTS:

DIVISION OF WATER QUALITY

August 7, 1996

MEMORANDUM TO: Dr. Ken Rudo

FROM: Paul Dahlen PD
Mooresville Regional Office

SUBJECT: Request for Health Risk Evaluation
Blankenship Well

I am requesting that a health risk evaluation for sampling results from this water supply well be completed and sent to our office. I will forward your evaluation to the well owner.

If you have questions or need additional information, please call me at (704) 663-1699, ext. 234.

Attachment: Sampling Results

\prd\blank.re

DIVISION OF ENVIRONMENTAL MANAGEMENT

Chemistry Laboratory Report / Ground Water Quality

AUG 5 1996

Lab Number :	6G1489
Date Received :	7/12/96
Time Received :	9:30 AM
Received By :	DS
Released By	DS
Date reported :	7/31/96

COUNTY : IREDELL
QUAD NO:

REPORT TO : MRO Regional Office
COLLECTOR(S) : FINLEY
DATE: 7/11/96
TIME:
PURPOSE:

SAMPLE PRIORITY
[X] ROUTINE [ ] EMERGENCY
[X] CHAIN OF CUSTODY
[W] SAMPLE TYPE

Owner: RICHARD BLANKENSHIP
Location or Site:
Description of sampling point
Sampling Method:
Remarks:

LABORATORY ANALYSIS

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC	mg/l
	Turbitity	NTU
	Residue., Suspended 530	mg/L
	Total Suspended solids	mg/L
	pH	units
	Alkalinity to pH 4.5	mg/L
	Alkalinity to pH 8.3	mg/L
	Carbonate	mg/L
	Bicarbonate	mg/L
	Carbon dioxide	mg/L
	Chloride	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	c.u.
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: total 900	mg/L
	Hardness: (non-carb) 902	mg/L
	Phenols 32730	ug/L
	Specific Cond. 95	uMhos/cm2
	Sulfate	mg/L
	Sulfide 745	mg/L
	MBAS	mg/L
	Oil and Grease	mg/L
	Silica	mg/L
	Boron	
	NH3 as N 610	mg/L
	TKN as N 625	mg/L
	NO2 +NO3 as n 630	mg/L
	P: Total as P 665	mg/L
	PO4	mg/L

	Ag-Silver 46566	ug/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadium 46559	ug/L
	Cr-Chromium 46560	ug/L
	Cu- Copper 1042	ug/L
	Fe- Iron 1045	ug/L
	Hg- Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg- Magnesium 927	mg/L
	Mn-Manganese 1055	ug/L
	Na- Sodium 929	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn_Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	Semivolatiles
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

COMMENTS :

6G1489.JUL

GROUNDWATER FIELD/LAB FORM

CHAIN OF CUSTODY

North Carolina
Department of Environment, Health, and Natural Resources
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION

County: Iredell
Quad No. L66nT Serial No.
Lat. 35 42 52 Long. 80 53 55

SAMPLE PRIORITY

☑ ROUTINE ☐ EMERGENCY
☑ CHAIN OF CUSTODY

Lab Number: 6G 1489
Date Received: 7/12/96 Time: 9:30
Rec'd by: DS From: Bus, Courier, Hand Del.,
Other:
Data Entry By: Ck:
Date Reported:

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:
Shipped by: Bus, Courier, Hand Del., Other:
Collector(s): M. Finley Date 7/11/96 Time 12 noon

Purpose: Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other: ~~Inc~~ Pollution monitorin.
(circle one)

FIELD ANALYSES

pH_{400} 6.4 Spec. Cond.$_{94}$ 90 at 25° C
Temp.$_{10}$ 25 °C Odor
Appearance: clear, colorless
Field Analysis By: M. Finley

Owner: ~~Mr.~~ Richard Blankenship - Nelson Enterprises PO Box 37 Barium Springs 28011
Location or site: ~.4 miles N of Old Mtn Rd. - west side
Description of sampling point: tap in restroom
Sampling Method: pump (Pump, bailer, etc.) Sample Interval
Remarks: pumped ~5 min. before sampling (pumping time, air temp. etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 46566	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Flouride 951	mg/l		Al - Aluminum 46557	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness; Total 900	mg/l		As - Arsenic 46551	ug/l		Nitrogen Pesticides
	Coliform: MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ba - Barium 46558	ug/l		
	Coliform: MF Total 31504	/100ml		Phenols 32730	ug/l		Ca - Calcium 46552	mg/l		Acid Herbicides
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Cd - Cadmium 46559	ug/l		
	Turbidity 76	NTU		Sulfate 945	mg/l		Cr - Chromium 46560	ug/l		Semivolatile Organics
	Residue., Suspended 530	mg/l		Sulfide 745	mg/l		Cu - Copper 46562	ug/l		
							Fe - Iron 46563	ug/l		
						X	Hg - Mercury 71900	ug/l	X	Volatile Organics (VOA bottle)
	pH 403	units					K - Potassium 46555	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 46554	mg/l		TPH - Gasoline Range
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 46565	ug/l		TPH - BTEX Gasoline Range
	Carbonate 445	mg/l		NH_3 as N 610	mg/l		Na - Sodium 46556	mg/l		
	Bicarbonate 440	mg/l		TKN as N 625	mg/l		Ni - Nickel	ug/l		✓
	Carbon dioxide 405	mg/l		NO_2 + NO_3 as N 630	mg/l		Pb - Lead 46564	ug/l		
	Chloride 940	mg/l		P: Total as P 665	mg/l		Se - Selenium	ug/l		
	Chromium: Hex 1032	ug/l					Zn - Zinc 46567	ug/l		
	Color: True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments:

GW-54 REV. 6/9

For Dissolved Analysis - submit filtered sample and write "DIS" in block.

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 6G1489

REPORTED BY BWC
CHECKED BY
REVIEWED BY

SUPERVISOR
DATE 7/30/96

ENTERED BY
DATE 7/31/96

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L	CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L
75-35-4	1,1-Dichloroethene	0.75	U	96-18-4	1,2,3-Trichloropropane	0.25	U
75-09-2	Methylene Chloride	10	U	108-86-1	Bromobenzene	1	U
156-60-5	trans-1,2-Dichloroethene	0.75	U	95-49-8	2-Chlorotoluene	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U	106-43-4	4-Chlorotoluene	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U	541-73-1	1,3-Dichlorobenzene	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	U
67-66-3	Chloroform	0.25	U	95-50-1	1,2-Dichlorobenzene	0.25	U
74-97-5	Bromochloromethane	0.75	U	96-12-8	1,2-Dibromo-3-Chloropropane	1	U
71-55-6	1,1,1-Trichloroethane	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U	87-68-3	Hexachlorobutadiene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U	87-61-6	1,2,3-Trichlorobenzene	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	5	U
79-01-6	Trichloroethene	0.25	U	71-43-2	Benzene	1	U
78-87-5	1,2-Dichloropropane	0.25	U	108-88-3	Toluene	1	U
75-27-4	Bromodichloromethane	0.25	U	100-41-4	Ethyl benzene	1	U
74-95-3	Dibromomethane	1	U	108-38-3	m,p-Xylenes	2	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U	95-47-6	o-Xylene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U	100-42-5	Styrene	1	U
79-00-5	1,1,2-Trichloroethane	0.25	U	98-82-8	Isopropylbenzene	1	U
127-18-4	Tetrachloroethene	0.25	0.30 E	103-65-1	n-Propylbenzene	1	U
142-28-9	1,3-Dichloropropane	0.25	U	108-67-8	1,3,5-Trimethylbenzene	1	U
124-48-1	Dibromochloromethane	0.75	U	98-06-6	tert-Butylbenzene	1	U
106-93-4	1,2-Dibromoethane	1	U	95-63-6	1,2,4-Trimethylbenzene	1	U
108-90-7	Chlorobenzene	0.25	U	135-98-8	sec-Butylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U	99-87-6	p-isopropyltoluene	1	U
75-25-2	Bromoform	0.5	U	104-51-8	n-Butylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U	91-20-3	Naphthalene	1	U

	mg/L	mg/L
Gasoline Range Estimated Total Petroleum Hydrocarbon	0.25	N

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks) — Detected ug/L

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC/PID.

COMMENTS:

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary

DEHNR

DIVISION OF WATER QUALITY

July 31, 1996

Old Mountain Road

John Schafer
Post Office Box 388
Troutman, North Carolina 28166

RE: Well Water Sample Results
Schafer Well
Iredell County, N.C.

Dear Mr. Mayberry:

On July 11, 1996, staff from the Mooresville Regional Office of the North Carolina Division of Water Quality sampled your well at Hwys 115/21. The samples were analyzed for volatile organic compounds. Volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers.

Laboratory results from these samples indicate at the time of sampling that volatile organic compounds, which were tested for, were not present in your water supply.

Should you have any questions, please call me at (704) 663-1699, ext. 234.

Sincerely,

Paul R. Dahlen, P.G.
Hydrogeologist

Enclosure: Lab Results

cc: Iredell County Health Department

c:\wp51\prd\schafer.wel

919 North Main Street,
Mooresville, North Carolina 28115
Voice 704-663-1699

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N.C. DEPT. OF
ENVIRONMENT, HEALTH,
& NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL MANAGEMENT

Chemistry Laboratory Report / Ground Water Quality

JUL 22 1996

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

Lab Number :	6G1491
Date Received :	7/12/96
Time Received :	9:30 AM
Received By :	DS
Released By	RDS
Date reported :	7/17/96

COUNTY : IREDELL
QUAD NO:

REPORT TO : MRO
COLLECTOR(S) : FINLEY
DATE: 7/11/96
TIME:
PURPOSE:

Regional Office

SAMPLE PRIORITY
[X] ROUTINE [ ] EMERGENCY
[X] CHAIN OF CUSTODY
[W] SAMPLE TYPE

Owner: JOHN SCHAFER
Location or Site:
Description of sampling point
Sampling Method:
Remarks:

LABORATORY ANALYSIS

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC	mg/l
	Turbitity	NTU
	Residue., Suspended 530	mg/L
	Total Suspended solids	mg/L
	pH	units
	Alkalinity to pH 4.5	mg/L
	Alkalinity to pH 8.3	mg/L
	Carbonate	mg/L
	Bicarbonate	mg/L
	Carbon dioxide	mg/L
	Chloride	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	c.u.
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: total 900	mg/L
	Hardness: (non-carb) 902	mg/L
	Phenols 32730	ug/L
	Specific Cond. 95	uMhos/cm2
	Sulfate	mg/L
	Sulfide 745	mg/L
	MBAS	mg/L
	Oil and Grease	mg/L
	Silica	mg/L
	Boron	
	NH3 as N 610	mg/L
	TKN as N 625	mg/L
	NO2 +NO3 as n 630	mg/L
	P: Total as P 665	mg/L
	PO4	mg/L

	Ag-Silver 46566	ug/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadium 46559	ug/L
	Cr-Chromium 46560	ug/L
	Cu- Copper 1042	ug/L
	Fe- Iron 1045	ug/L
	Hg- Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg- Magnesium 927	mg/L
	Mn-Manganese 1055	ug/L
	Na- Sodium 929	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn_Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	Semivolatiles
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

COMMENTS :

6G1491.JUL

GROUNDWATER FIELD/LAB FORM

CHAIN OF CUSTODY

North Carolina
Department of Environment, Health, and Natural Resources
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION

County: Iredell
Quad No: L66 n 23 Serial No.:
Lat. 35 42 44 Long. 80 53 44

SAMPLE PRIORITY

[✓] ROUTINE [ ] EMERGENCY
[✓] CHAIN OF CUSTODY

Lab Number: 6G 1491
Date Received: 7/12/96 Time: 9:30
Rec'd by: LB From: Bus, Courier, Hand Del.,
Other:
Data Entry By: Ck:
Date Reported:

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:
Shipped by: Bus, Courier, Hand Del., Other:
Collector(s): M Finley Date 7/11/96 Time 1 05 pm

Purpose: Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other: Pollution Monitori.

FIELD ANALYSES

pH_{400} 6.2 Spec. Cond.$_{94}$ 65 at 25° C
Temp.$_{10}$ 23 °C Odor
Appearance Clear, colorless
Field Analysis By: M. Finley

Owner (circle one) John Schafer Schafer Mfg. PO Box 388 Troutman
Location or site Hwy 21/115 across from Food Lion Troutman
Description of sampling point ~~Tap at back of building~~ sink.
Sampling Method (Pump, bailer, etc.) Pump Sample Interval
Remarks (pumping time, air temp. etc.) pumped ~5 min. before sampling

LABORATORY ANALYSES

	BOD$_5$ 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 46566	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Flouride 951	mg/l		Al - Aluminum 46557	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness: Total 900	mg/l		As - Arsenic 46551	ug/l		Nitrogen Pesticides
	Coliform: MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ba - Barium 46558	ug/l		
	Coliform: MF Total 31504	/100ml		Phenols 32730	ug/l		Ca - Calcium 46552	mg/l		Acid Herbicides
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm^2		Cd - Cadmium 46559	ug/l		
	Turbidity 76	NTU		Sulfate 945	mg/l		Cr - Chromium 46560	ug/l		Semivolatile Organics
	Residue., Suspended 530	mg/l		Sulfide 745	mg/l		Cu - Copper 46562	ug/l		
							Fe - Iron 46563	ug/l		
							Hg - Mercury 71900	ug/l	X	Volatile Organics (VOA bottle)
	pH 403	units					K - Potassium 46555	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 46554	mg/l		TPH - Gasoline Range
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 46565	ug/l		TPH - BTEX Gasoline Range
	Carbonate 445	mg/l		NH_3 as N 610	mg/l		Na - Sodium 46556	mg/l		
	Bicarbonate 440	mg/l		TKN as N 625	mg/l		Ni - Nickel	ug/l		V
	Carbon dioxide 405	mg/l		NO_2 + NO_3 as N 630	mg/l		Pb - Lead 46564	ug/l		
	Chloride 940	mg/l		P: Total as P 665	mg/l		Se - Selenium	ug/l		
	Chromium: Hex 1032	ug/l					Zn - Zinc 46567	ug/l		
	Color: True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments:

GW-54 REV. 6/93 For Dissolved Analysis - submit filtered sample and write "DIS" in block.

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 6G1491

REPORTED BY SCR / SCR
CHECKED BY [illegible]
REVIEWED BY [illegible]

SUPERVISOR REK
DATE 7/16/96

ENTERED BY [illegible]
DATE 7/16/96

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L	CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L
75-35-4	1,1-Dichloroethene	0.75	U	96-18-4	1,2,3-Trichloropropane	0.25	U
75-09-2	Methylene Chloride	10	U	108-86-1	Bromobenzene	1	U
156-60-5	trans-1,2-Dichloroethene	0.75	U	95-49-8	2-Chlorotoluene	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U	106-43-4	4-Chlorotoluene	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U	541-73-1	1,3-Dichlorobenzene	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	U
67-66-3	Chloroform	0.25	U	95-50-1	1,2-Dichlorobenzene	0.25	U
74-97-5	Bromochloromethane	0.75	U	96-12-8	1,2-Dibromo-3-Chloropropane	1	U
71-55-6	1,1,1-Trichloroethane	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U	87-68-3	Hexachlorobutadiene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U	87-61-6	1,2,3-Trichlorobenzene	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	5	U
79-01-6	Trichloroethene	0.25	U	71-43-2	Benzene	1	U
78-87-5	1,2-Dichloropropane	0.25	U	108-88-3	Toluene	1	U
75-27-4	Bromodichloromethane	0.25	U	100-41-4	Ethyl benzene	1	U
74-95-3	Dibromomethane	1	U	108-38-3	m,p-Xylenes	2	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U	95-47-6	o-Xylene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U	100-42-5	Styrene	1	U
79-00-5	1,1,2-Trichloroethane	0.25	U	98-82-8	Isopropylbenzene	1	U
127-18-4	Tetrachloroethene	0.25	U	103-65-1	n-Propylbenzene	1	U
142-28-9	1,3-Dichloropropane	0.25	U	108-67-8	1,3,5-Trimethylbenzene	1	U
124-48-1	Dibromochloromethane	0.75	U	98-06-6	tert-Butylbenzene	1	U
106-93-4	1,2-Dibromoethane	1	U	95-63-6	1,2,4-Trimethylbenzene	1	U
108-90-7	Chlorobenzene	0.25	U	135-98-8	sec-Butylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U	99-87-6	p-isopropyltoluene	1	U
75-25-2	Bromoform	0.5	U	104-51-8	n-Butylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U	91-20-3	Naphthalene	1	U

	mg/L	mg/L
Gasoline Range Estimated Total Petroleum Hydrocarbon	0.25	N

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks) — Detected ug/L

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC/ELCD/PID.

COMMENTS:

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary

DEHNR

DIVISION OF WATER QUALITY

July 31, 1996

L.G. Mayberry
Post Office Box 100
~~Troutman,~~ North Carolina ~~28166~~
Barnes Springs 28010

Old Mountain Road

RE: Well Water Sample Results
Mayberry Well
Iredell County, N.C.

Dear Mr. Mayberry:

On July 11, 1996, staff from the Mooresville Regional Office of the North Carolina Division of Water Quality sampled your well at 687 Hwy. 115. The samples were analyzed for volatile organic compounds. Volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers.

Laboratory results from these samples indicate at the time of sampling that volatile organic compounds, which were tested for, were not present in your water supply.

Should you have any questions, please call me at (704) 663-1699, ext. 234.

Sincerely,

Paul R. Dahlen, P.G.
Hydrogeologist

Enclosure: Lab Results

cc: Iredell County Health Department

c:\wp51\prd\mayberry.wel

919 North Main Street,
Mooresville, North Carolina 28115
Voice 704-663-1699

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N.C. DEPT. OF
ENVIRONMENT, HEALTH,
& NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL MANAGEMENT

Chemistry Laboratory Report / Ground Water Quality

JUL 22 1996

DIVISION OF ENVIRONMENTAL MANAGEMENT
Regional MOORESVILLE REGIONAL OFFICE

Lab Number :	6G1490
Date Received :	7/12/96
Time Received :	9:30 AM
Received By :	DS
Released By	
Date reported	7/17/96

COUNTY : IREDELL
QUAD NO:

REPORT TO : MRO
COLLECTOR(S) : FINLEY
DATE: 7/11/96
TIME:
PURPOSE:

SAMPLE PRIORITY
[X] ROUTINE [ ] EMERGENCY
[X] CHAIN OF CUSTODY
[W] SAMPLE TYPE

Owner: L.G. MAYBERRY
Location or Site:
Description of sampling point
Sampling Method:
Remarks:

LABORATORY ANALYSIS

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC	mg/l
	Turbitity	NTU
	Residue., Suspended 530	mg/L
	Total Suspended solids	mg/L
	pH	units
	Alkalinity to pH 4.5	mg/L
	Alkalinity to pH 8.3	mg/L
	Carbonate	mg/L
	Bicarbonate	mg/L
	Carbon dioxide	mg/L
	Chloride	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	c.u.
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: total 900	mg/L
	Hardness: (non-carb) 902	mg/L
	Phenols 32730	ug/L
	Specific Cond. 95	uMhos/cm2
	Sulfate	mg/L
	Sulfide 745	mg/L
	MBAS	mg/L
	Oil and Grease	mg/L
	Silica	mg/L
	Boron	
	NH3 as N 610	mg/L
	TKN as N 625	mg/L
	NO2 +NO3 as n 630	mg/L
	P: Total as P 665	mg/L
	PO4	mg/L

	Ag-Silver 46566	ug/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadium 46559	ug/L
	Cr-Chromium 46560	ug/L
	Cu- Copper 1042	ug/L
	Fe- Iron 1045	ug/L
	Hg- Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg- Magnesium 927	mg/L
	Mn-Manganese 1055	ug/L
	Na- Sodium 929	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn_Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	Semivolatiles
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

COMMENTS :

6G1490 JUL

GROUNDWATER FIELD/LAB FORM

CHAIN OF CUSTODY

North Carolina
Department of Environment, Health, and Natural Resources
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION

County: Iredell
Quad No: L66g8 Serial No.:
Lat. 35 43.04 Long. 80 53 52

SAMPLE PRIORITY

[✓] ROUTINE [ ] EMERGENCY
[✓] CHAIN OF CUSTODY

Lab Number: 6G 1490
Date Received: 7/12/96 Time: 9:30
Rec'd by: DB From: Bus, Courier, Hand Del.,
Other:
Data Entry By: Ck:
Date Reported:

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:
Shipped by: Bus, Courier, Hand Del., Other:
Collector(s): M Finley Date 7/11/96 Time 12 20 pm
Purpose: Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other: Pollution Monitoring (circle one)

FIELD ANALYSES

pH_{400} 6.0 Spec. Cond.$_{94}$ 50 at 25° C
Temp.$_{10}$ 26 °C Odor
Appearance clear, colorless
Field Analysis By: M Finley

Owner: L.G. Mayberry Po Box 100 Troutman
Location or site: 687 Hwy 115/21
Description of sampling point: Spigot at side of house
Sampling Method: pump (Pump, bailer, etc.) Sample Interval:
Remarks: pumped 5 minutes before sampling (pumping time, air temp. etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 46566	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Flouride 951	mg/l		Al - Aluminum 46557	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness: Total 900	mg/l		As - Arsenic 46551	ug/l		Nitrogen Pesticides
	Coliform: MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ba - Barium 46558	ug/l		
	Coliform: MF Total 31504	/100ml		Phenols 32730	ug/l		Ca - Calcium 46552	mg/l		Acid Herbicides
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Cd - Cadmium 46559	ug/l		
	Turbidity 76	NTU		Sulfate 945	mg/l		Cr - Chromium 46560	ug/l		Semivolatile Organics
	Residue., Suspended 530	mg/l		Sulfide 745	mg/l		Cu - Copper 46562	ug/l		
							Fe - Iron 46563	ug/l		
						X	Hg - Mercury 71900	ug/l		Volatile Organics (VOA bottle)
	pH 403	units					K - Potassium 46555	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 46554	mg/l		TPH - Gasoline Range
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 46565	ug/l		TPH - BTEX Gasoline Range
	Carbonate 445	mg/l		NH_3 as N 610	mg/l		Na - Sodium 46556	mg/l		
	Bicarbonate 440	mg/l		TKN as N 625	mg/l		Ni - Nickel	ug/l		✓
	Carbon dioxide 405	mg/l		NO_2 + NO_3 as N 630	mg/l		Pb - Lead 46564	ug/l		
	Chloride 940	mg/l		P: Total as P 665	mg/l		Se - Selenium	ug/l		
	Chromium: Hex 1032	ug/l					Zn - Zinc 46567	ug/l		
	Color: True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments:

GW-54 REV. 6

For Dissolved Analysis - submit filtered sample and write "DIS" in block

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 6G1490

REPORTED BY SCR / JWR
CHECKED BY DXC
REVIEWED BY DXC

SUPERVISOR RGK
DATE 7/16/96
ENTERED BY RB
DATE 7/16/96

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L	CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L
75-35-4	1,1-Dichloroethene	0.75	U	96-18-4	1,2,3-Trichloropropane	0.25	U
75-09-2	Methylene Chloride	10	U	108-86-1	Bromobenzene	1	U
156-60-5	trans-1,2-Dichloroethene	0.75	U	95-49-8	2-Chlorotoluene	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U	106-43-4	4-Chlorotoluene	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U	541-73-1	1,3-Dichlorobenzene	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	U
67-66-3	Chloroform	0.25	U	95-50-1	1,2-Dichlorobenzene	0.25	U
74-97-5	Bromochloromethane	0.75	U	96-12-8	1,2-Dibromo-3-Chloropropane	1	U
71-55-6	1,1,1-Trichloroethane	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U	87-68-3	Hexachlorobutadiene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U	87-61-6	1,2,3-Trichlorobenzene	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	5	U
79-01-6	Trichloroethene	0.25	U	71-43-2	Benzene	1	U
78-87-5	1,2-Dichloropropane	0.25	U	108-88-3	Toluene	1	U
75-27-4	Bromodichloromethane	0.25	U	100-41-4	Ethyl benzene	1	U
74-95-3	Dibromomethane	1	U	108-38-3	m,p-Xylenes	2	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U	95-47-6	o-Xylene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U	100-42-5	Styrene	1	U
79-00-5	1,1,2-Trichloroethane	0.25	U	98-82-8	Isopropylbenzene	1	U
127-18-4	Tetrachloroethene	0.25	U	103-65-1	n-Propylbenzene	1	U
142-28-9	1,3-Dichloropropane	0.25	U	108-67-8	1,3,5-Trimethylbenzene	1	U
124-48-1	Dibromochloromethane	0.75	U	98-06-6	tert-Butylbenzene	1	U
106-93-4	1,2-Dibromoethane	1	U	95-63-6	1,2,4-Trimethylbenzene	1	U
108-90-7	Chlorobenzene	0.25	U	135-98-8	sec-Butylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U	99-87-6	p-isopropyltoluene	1	U
75-25-2	Bromoform	0.5	U	104-51-8	n-Butylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U	91-20-3	Naphthalene	1	U

	mg/L	mg/L
Gasoline Range Estimated Total Petroleum Hydrocarbon	0.25	N

Other purgeables detected (up to 10 highest peaks)	Detected ug/L
NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC/ELCD/PID.	

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

COMMENTS:

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Vivian Burke, Regional Manager

DEHNR

DIVISION OF ENVIRONMENTAL MANAGEMENT

October 12, 1993

Miss Willie L. Knox
Route 10, Box 317
Statesville, North Carolina 28677

RE: Well Water Sample Results
Knox Well
Iredell County, N.C.

Dear Miss Knox:

On August 18, 1993, staff from the Mooresville Regional Office of the North Carolina Division of Environmental Management sampled your well on Orchard Lane in Troutman, North Carolina. The samples were analyzed for volatile organic compounds. Volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers.

Laboratory results from these samples indicate at the time of sampling that no volatile organic compounds were present in your water supply.

Should you have any question, please call me at (704) 663-1699, ext. 235.

Sincerely,

Chris DeRoller
Hydrogeologist

Enclosure: Lab Results

cc: Iredell County Health Department

CMD/sc

919 North Main Street, Mooresville, North Carolina 28115 Telephone 704-663-1699 FAX 704-663-6040
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COUNTY Iredell

QUAD NO. L660-1' SERIAL NO. _____

LAT. 35°42'48" LONG. 80°54'41"

North Carolina
Department of Environment, Health, and Natural Resources
Division of Environmental Management
Groundwater Field/Lab Form

CHAIN OF CUSTODY

SEP 09 1993

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

LAB NUMBER # 361378

DATE RECEIVED 8-19-93 Time 9:00

Rec'd by: DS From: Bus Courier

Other _____

DATA ENTRY BY: JH CK: DS

DATE REPORTED: 9/3/93

Report to: ARO, FRO, (MRO), RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, (Courier), Other _____

SAMPLE PRIORITY

☒ ROUTINE ☐ EMERGENCY

COLLECTOR(S): DeFoller/Barney DATE 8/18/93 TIME 9:55 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER _____ (circle one)

FIELD ANALYSES

pH_{400} 6.5 Spec. Cond.$_{94}$ 20 at 25°C

Temp.$_{10}$ 21 °C Odor N/A

Appearance Clear Taste N/A

Field Analysis By: C. DeFoller

Owner Mrs Willie L. Knox Route 10, Box 317 Statesville, N.C.

Location or site Orchard Lane

Description of sampling point Tap at back of house

Sampling Method _____ (pump, bailer, etc.) Sample Interval T.D. 30-60'

Remarks Taken after sediment filter (pumping time, air temp, etc.)
2" Water Supply Well

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1106	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
X	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments: _____

GW-54 REV. 9/90

For Dissolved Analysis - submit filtered sample and write "D" in block

White Copy - Groundwater Central Office Yellow Copy - Regional Office Pink Copy - Central Files Goldenrod Copy - Lab

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 3G1378

REPORTED BY
CHECKED BY
REVIEWED BY

SUPERVISOR REK
DATE 9/3/93
ENTERED BY
CHECKED BY

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
75-35-4	1,1-Dichloroethene	0.75	U
75-09-2	Methylene Chloride	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.75	U
75-34-3	1,1-Dichloroethane	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U
67-66-3	Chloroform	0.25	U
74-97-5	Bromochloromethane	0.75	U
71-55-6	1,1,1-Trichloroethane	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
74-95-3	Dibromomethane	1	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U
127-18-4	Tetrachloroethene	0.25	U
142-28-9	1,3-Dichloropropane	0.25	U
124-48-1	Dibromochloromethane	0.75	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	0.25	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
96-18-4	1,2,3-Trichloropropane	0.25	U
108-86-1	Bromobenzene	1	U
95-49-8	2-Chlorotoluene	0.25	U
106-43-4	4-Chlorotoluene	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	0.25	U
87-68-3	Hexachlorobutadiene	0.25	U
87-61-6	1,2,3-Trichlorobenzene	0.75	U
1634-04-4	Methyl-tert-butyl ether	5	U
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethyl benzene	1	U
108-38-3	m,p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
91-20-3	Naphthalene	1	U

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks) — Detected ug/l

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC PID/ELCD.

COMMENTS:

ENVIRONMENT, HEALTH & NATURAL RESOURCES

JUL 16 1996

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

MRO

Division of Environmental Management
GROUNDWATER SECTION
CHAIN OF CUSTODY RECORD

For Investigation of pollution monitoring Incident No.

Samples collected and GW-54 forms completed by: Margaret R. Finley

Lab Only Lab No.	Quad No.	Location	Date	Time	No. of Containers
6G1487	m66 u2	Dewey Harbin Iredell	7/11/96	9 25 am	3
6G1488	L66 n2	Little Iredell	7/11/96	11 20 am	2
6G1489	L66 n7	Blankenship - Iredell	7/11/96	12 noon	2
6G1490	L66 j8	Mayberry Iredell	7/11/96	12 20 pm	2
6G1491	L66 n23	Schafer - Iredell	7/11/96	1 05 pm	2

Relinquished by(Signature):	Received by(Signature):	Date/Time
Margaret R. Finley	Donna Saunders	7/12/96 9:30
Rel.	Rec. by	/
Rel.	Rec. by	/
Rel.	Rec. by	/

Method of Shipment: Courier

Security Type and Condition: Seal by: M.R. Finley Broken by: Donna Saunders Lock by: Open by: Saunders

LAB USE ONLY

Lab No. From	Lab No. Through	No. Containers	Analysis	Relinquished by	Received by	Date / Time
6G1487		1	Semi VOA	Donna Saunders	George Kanaklis	7/12/96 9:47
6G1487	6G1491	10	VOA	Donna Saunders	Barry L. Gantt	7-12-96 9:55 A.M.
						/
						/
						/
						/
						/
						/
						/

White copy - GW Headquarters, Canary copy - Lab, Pink copy - Region

GW-63 Revised 9/87

DIVISION OF WATER QUALITY

August 7, 1996

MEMORANDUM TO: Dr. Ken Rudo

FROM: Paul Dahlen PD
Mooresville Regional Office

SUBJECT: Request for Health Risk Evaluation
Little Well

I am requesting that a health risk evaluation for sampling results from this water supply well be completed and sent to our office. I will forward your evaluation to the well owner.

If you have questions or need additional information, please call me at (704) 663-1699, ext. 234.

Attachment: Sampling Results

\prd\little.re

DIVISION OF ENVIRONMENTAL MANAGEMENT

Chemistry Laboratory Report / Ground Water Quality

Lab Number :	6G1488
Date Received :	7/12/96
Time Received :	9:30 AM
Received By :	DS
Released By :	DS
Date reported :	7/31/96

COUNTY : IREDELL
QUAD NO:

REPORT TO : ROBERT LITTLE Regional Office
COLLECTOR(S) :
DATE: 7/11/96
TIME:
PURPOSE:

SAMPLE PRIORITY
[X] ROUTINE [ ] EMERGENCY
[X] CHAIN OF CUSTODY
[W] SAMPLE TYPE

Owner: ROBERT LITTLE
Location or Site:
Description of sampling point
Sampling Method:
Remarks:

N.C. DEPT. OF ENVIRONMENT, HEALTH, & NATURAL RESOURCES

AUG 5 1996

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

LABORATORY ANALYSIS

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC	mg/l
	Turbitity	NTU
	Residue., Suspended 530	mg/L
	Total Suspended solids	mg/L
	pH	units
	Alkalinity to pH 4.5	mg/L
	Alkalinity to pH 8.3	mg/L
	Carbonate	mg/L
	Bicarbonate	mg/L
	Carbon dioxide	mg/L
	Chloride	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	c.u.
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: total 900	mg/L
	Hardness: (non-carb) 902	mg/L
	Phenols 32730	ug/L
	Specific Cond. 95	uMhos/cm2
	Sulfate	mg/L
	Sulfide 745	mg/L
	MBAS	mg/L
	Oil and Grease	mg/L
	Silica	mg/L
	Boron	
	NH3 as N 610	mg/L
	TKN as N 625	mg/L
	NO2 +NO3 as n 630	mg/L
	P. Total as P 665	mg/L
	PO4	mg/L

	Ag-Silver 46566	mg/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadium 46559	ug/L
	Cr-Chromium 46560	ug/L
	Cu- Copper 1042	ug/L
	Fe- Iron 1045	ug/L
	Hg- Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg- Magnesium 927	mg/L
	Mn-Manganese 1055	ug/L
	Na- Sodium 929	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn_Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	Semivolatiles
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

COMMENTS :

6G1488 JUL

Old Mountain
Rd
site

GROUNDWATER FIELD/LAB FORM

North Carolina
Department of Environment, Health, and Natural Resources
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION

CHAIN OF CUSTODY

N.C. DEPT. OF ENVIRONMENT, HEALTH & NATURAL RES. AUG 15 1996 DIVISION OF ENVIRONMENTAL MANAGEMENT MOORESVILLE REGIONAL OFFICE

County Iredell
Quad No. L66h-2 Serial No.
Lat. 35°42'46" Long. 80°53'54"

SAMPLE PRIORITY

☑ ROUTINE ☐ EMERGENCY
☑ CHAIN OF CUSTODY

Lab Number 6G 1486
Date Received 7/12/96 Time 9:30
Rec'd by: DD From: Bus, Courier, Hand Del.,
Other:
Data Entry By: Ck:
Date Reported:

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:
Shipped by: Bus, Courier, Hand Del., Other:
Collector(s): Date 7/11/96 Time 11:20 am
Purpose: Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other: Pollution monitoring (circle one)

FIELD ANALYSES

pH_{400} 6.2 Spec. Cond.$_{94}$ 35 at 25° C
Temp.$_{10}$ 20 °C Odor
Appearance Clear colorless
Field Analysis By: M Bailey

Owner Robert Little
Location or site Orchard Lane Troutman
Description of sampling point hose bibb at front of house
Sampling Method pump (Pump, bailer, etc.) Sample Interval
Remarks pumped ~5 minutes before sampling (pumping time, air temp. etc.)

Po Box 982 Troutman

LABORATORY ANALYSES

	BOD$_5$ 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 46566	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Flouride 951	mg/l		Al - Aluminum 46557	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness; Total 900	mg/l		As - Arsenic 46551	ug/l		Nitrogen Pesticides
	Coliform: MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ba - Barium 46558	ug/l		
	Coliform: MF Total 31504	/100ml		Phenols 32730	ug/l		Ca - Calcium 46552	mg/l		Acid Herbicides
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Cd - Cadmium 46559	ug/l		
	Turbidity 76	NTU		Sulfate 945	mg/l		Cr - Chromium 46560	ug/l		Semivolatile Organics
	Residue., Suspended 530	mg/l		Sulfide 745	mg/l		Cu - Copper 46562	ug/l		
							Fe - Iron 46563	ug/l		
							Hg - Mercury 71900	ug/l	X	Volatile Organics (VOA bottle)
	pH 403	units					K - Potassium 46555	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 46554	mg/l		TPH - Gasoline Range
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 46565	ug/l		TPH - BTEX Gasoline Range
	Carbonate 445	mg/l		NH_3 as N 610	mg/l		Na - Sodium 46556	mg/l		
	Bicarbonate 440	mg/l		TKN as N 625	mg/l		Ni - Nickel	ug/l		
	Carbon dioxide 405	mg/l		NO_2 + NO_3 as N 630	mg/l		Pb - Lead 46564	ug/l		
	Chloride 940	mg/l		P: Total as P 665	mg/l		Se - Selenium	ug/l		
	Chromium: Hex 1032	ug/l					Zn - Zinc 46567	ug/l		
	Color: True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments:

GW-54 REV. 6/92 For Dissolved Analysis - submit filtered sample and write "DIS" in block.

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 6G1488

REPORTED BY BWC / 7/30/96
CHECKED BY SCB
REVIEWED BY

SUPERVISOR REK
DATE 7/30/96
ENTERED BY DS
DATE 7/31/96

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L		CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L	
75-35-4	1,1-Dichloroethene	0.75		U	96-18-4	1,2,3-Trichloropropane	0.25		U
75-09-2	Methylene Chloride	10		U	108-86-1	Bromobenzene	1		U
156-60-5	trans-1,2-Dichloroethene	0.75		U	95-49-8	2-Chlorotoluene	0.25		U
75-34-3	1,1-Dichloroethane	0.25		U	106-43-4	4-Chlorotoluene	0.25		U
590-20-7	2,2-Dichloropropane	0.25		U	541-73-1	1,3-Dichlorobenzene	0.25		U
156-59-4	cis-1,2-Dichloroethene	0.25		U	106-46-7	1,4-Dichlorobenzene	0.25		U
67-66-3	Chloroform	0.25		U	95-50-1	1,2-Dichlorobenzene	0.25		U
74-97-5	Bromochloromethane	0.75		U	96-12-8	1,2-Dibromo-3-Chloropropane	1		U
71-55-6	1,1,1-Trichloroethane	0.25		U	120-82-1	1,2,4-Trichlorobenzene	0.25		U
563-58-6	1,1-Dichloropropene	0.25		U	87-68-3	Hexachlorobutadiene	0.25		U
56-23-5	Carbon Tetrachloride	0.75		U	87-61-6	1,2,3-Trichlorobenzene	0.75		U
107-06-2	1,2-Dichloroethane	0.25		U	1634-04-4	Methyl-tert-butyl ether	5		U
79-01-6	Trichloroethene	0.25		U	71-43-2	Benzene	1		U
78-87-5	1,2-Dichloropropane	0.25		U	108-88-3	Toluene	1		U
75-27-4	Bromodichloromethane	0.25		U	100-41-4	Ethyl benzene	1		U
74-95-3	Dibromomethane	1		U	108-38-3	m,p-Xylenes	2		U
10061-01-5	cis-1,3-Dichloropropene	0.25		U	95-47-6	o-Xylene	1		U
10061-02-6	trans-1,3-Dichloropropene	0.25		U	100-42-5	Styrene	1		U
79-00-5	1,1,2-Trichloroethane	0.25		U	98-82-8	Isopropylbenzene	1		U
127-18-4	Tetrachloroethene	0.25	D T		103-65-1	n-Propylbenzene	1		U
142-28-9	1,3-Dichloropropane	0.25		U	108-67-8	1,3,5-Trimethylbenzene	1		U
124-48-1	Dibromochloromethane	0.75		U	98-06-6	tert-Butylbenzene	1		U
106-93-4	1,2-Dibromoethane	1		U	95-63-6	1,2,4-Trimethylbenzene	1		U
108-90-7	Chlorobenzene	0.25		U	135-98-8	sec-Butylbenzene	1		U
630-20-6	1,1,1,2-Tetrachloroethane	0.25		U	99-87-6	p-isopropyltoluene	1		U
75-25-2	Bromoform	0.5		U	104-51-8	n-Butylbenzene	1		U
79-34-5	1,1,2,2-Tetrachloroethane	0.75		U	91-20-3	Naphthalene	1		U

	mg/L	mg/L	
Gasoline Range Estimated Total Petroleum Hydrocarbon	0.25		N

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks) — Detected ug/L

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC/PID.

COMMENTS:

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Vivian Burke, Regional Manager

DEHNR

DIVISION OF ENVIRONMENTAL MANAGEMENT

October 12, 1993

Robert Little
Post Office Box 982
Troutman, North Carolina 28166

RE: Well Water Sample Results
Little Well
Iredell County, N.C.

Dear Mr. Little:

On August 18, 1993 staff from the Mooresville Regional Office of the North Carolina Division of Environmental Management sampled your well on Orchard Lane in Troutman, North Carolina. The samples were analyzed for volatile organic compounds. Volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers.

Laboratory results from these samples indicate at the time of sampling that one volatile organic compound was present in your water supply. A copy of the laboratory results is enclosed for your review. These results are:

Compound	Concentration*	EPA Drinking Water Standards*
tetrachloroethylene	.27	5

*Concentration in micrograms per liter (ug/l), which is also parts per billion (ppb).

This compound does not exceed the drinking water standards. Should you have questions, please call me at (704) 663-1699, ext. 235.

Sincerely,

Chris DeRoller
Hydrogeologist

Enclosure: Lab Results
cc: Iredell County Health Department
CMD/sc

COUNTY Avery

QUAD NO. L66n-2 SERIAL NO. _____

LAT. 35° 42' 46" LONG. 80° 53' 59"

North Carolina
Department of Environment, Health, and Natural Resources
Division of Environmental Management
Groundwater Field Lab Form

CHAIN OF CUSTODY

LAB NUMBER # 361511

DATE RECEIVED 8-19-93 Time 9:00

Rec'd by: DS From: Bus Courier

Other _____

DATA ENTRY BY: DS CK: AA

DATE REPORTED: 9/14/93

Report to: ARO, FRO, (MRO) RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, (Courier), Other _____

SAMPLE PRIORITY

☒ ROUTINE ☐ EMERGENCY

COLLECTOR(S): DeRoller / Burney DATE 8/18/93 TIME 9:35 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER Poll. Inv.
(circle one)

FIELD ANALYSES

pH_{400} 6.5 Spec. Cond. 94 35 at 25°C

Temp. 10 19 °C Odor N/A

Appearance Clear Taste N/A

Field Analysis By: DeRoller

Owner Robert Little P.O. Box 982 Troutman 28166

Location or site Orchard Lane off old Mountain Road

Description of sampling point Tap at side of house

Sampling Method Jet pump (pump, bailer, etc.) Sample Interval 2100' T.D.

Remarks 2" Water supply well (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
X	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

N. C. DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
SEP 17 1993
DIVISION OF ENVIRONMENTAL MANAGEMENT MOORESVILLE REGIONAL OFFICE

Lab Comments: _____

GW-54 REV. 9/90

For Dissolved Analysis - submit filtered sample and write * in block

White Copy - Groundwater Central Office Yellow Copy - Regional Office Pink Copy - Central Files Goldenrod Copy - Lab

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 3G1377

REPORTED BY
CHECKED BY
REVIEWED BY

SUPERVISOR RBK
DATE 9/14/93
ENTERED BY DSH
CHECKED BY

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
75-35-4	1,1-Dichloroethene	0.75	U
75-09-2	Methylene Chloride	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.75	U
75-34-3	1,1-Dichloroethane	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U
67-66-3	Chloroform	0.25	U
74-97-5	Bromochloromethane	0.75	U
71-55-6	1,1,1-Trichloroethane	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
74-95-3	Dibromomethane	1	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U
127-18-4	Tetrachloroethene	0.25	0.27
142-28-9	1,3-Dichloropropane	0.25	U
124-48-1	Dibromochloromethane	0.75	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	0.25	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
96-18-4	1,2,3-Trichloropropane	0.25	U
108-86-1	Bromobenzene	1	U
95-49-8	2-Chlorotoluene	0.25	U
106-43-4	4-Chlorotoluene	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	0.25	U
87-68-3	Hexachlorobutadiene	0.25	U
87-61-6	1,2,3-Trichlorobenzene	0.75	U
1634-04-4	Methyl-tert-butyl ether	5	U
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethyl benzene	1	U
108-38-3	m,p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
91-20-3	Naphthalene	1	U

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks)

Detected ug/l

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC/PID.

COMMENTS:

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Vivian Burke, Regional Manager

DEHNR

DIVISION OF ENVIRONMENTAL MANAGEMENT

October 12, 1993

Ms. Ada Horton
Post Office Box 114
Troutman, North Carolina 28166

RE: Well Water Sample Results
Horton Well
Iredell County, N.C.

Dear Ms. Horton:

On August 18, 1993, staff from the Mooresville Regional Office of the North Carolina Division of Environmental Management sampled your well on Old Mountain Road in Troutman, North Carolina. The samples were analyzed for volatile organic compounds. Volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers.

Laboratory results from these samples indicate at the time of sampling that no volatile organic compounds were present in your water supply.

Should you have any question, please call me at (704) 663-1699, ext. 235.

Sincerely,

Chris DeRoller
Hydrogeologist

Enclosure: Lab Results

cc: Iredell County Health Department

CMD/sc

919 North Main Street, Mooresville, North Carolina 28115 Telephone 704-663-1699 FAX 704-663-6040
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COUNTY [illegible]

QUAD NO. 166n-19 CWO 12/7/93 SERIAL NO. _____

LAT. 35°42'53" LONG. 80°53'55"

North Carolina
Department of Environment, Health, and Natural Resources
Division of Environmental Management
CHAIN OF HISTORY
Groundwater Field/Lab Form

LAB NUMBER 8 [illegible]

DATE RECEIVED 8-19-93 Time 9:00

Rec'd by: DS From: Bus-Courier

Other _____

DATA ENTRY BY: JH CK: DS

DATE REPORTED: 9/13/93

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, Courier, Other _____

SAMPLE PRIORITY

☒ ROUTINE ☐ EMERGENCY

COLLECTOR(S): Burney / DeRoller DATE 8/18/93 TIME 11:00 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER _____ (circle one)

FIELD ANALYSES

pH_{400} 6.5 Spec. Cond.$_{94}$ 130 at 25°C

Temp.$_{10}$ 26 °C Odor None

Appearance Clear Taste N/A

Field Analysis By: DeRoller

Owner Ada Horton P.O. Box 114, Troutman, NC 28166

Location or site old Mt. Road

Description of sampling point Top of well house

Sampling Method pump (pump, bailer, etc.) Sample Interval ≈ 170-190' deep

Remarks _____ (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

N. C. DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT

SEP 15 1993

DIVISION OF ENVIRONMENTAL MANAGEMENT MOORESVILLE REGIONAL OFFICE

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
X	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments: _____

GW-54 REV. 9/90

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White Copy - Groundwater Central Office Yellow Copy - Regional Office Pink Copy - Central Files Goldenrod Copy - Lab

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 3G1381

REPORTED BY
CHECKED BY
REVIEWED BY

SUPERVISOR RGK
DATE 9/10/93
ENTERED BY
CHECKED BY DS

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
75-35-4	1,1-Dichloroethene	0.75	U
75-09-2	Methylene Chloride	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.75	U
75-34-3	1,1-Dichloroethane	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U
67-66-3	Chloroform	0.25	U
74-97-5	Bromochloromethane	0.75	U
71-55-6	1,1,1-Trichloroethane	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
74-95-3	Dibromomethane	1	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U
127-18-4	Tetrachloroethene	0.25	U
142-28-9	1,3-Dichloropropane	0.25	U
124-48-1	Dibromochloromethane	0.75	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	0.25	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
96-18-4	1,2,3-Trichloropropane	0.25	U
108-86-1	Bromobenzene	1	U
95-49-8	2-Chlorotoluene	0.25	U
106-43-4	4-Chlorotoluene	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	0.25	U
87-68-3	Hexachlorobutadiene	0.25	U
87-61-6	1,2,3-Trichlorobenzene	0.75	U
1634-04-4	Methyl-tert-butyl ether	5	U
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethyl benzene	1	U
108-38-3	m,p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
91-20-3	Naphthalene	1	U

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks) — Detected ug/l

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC PID/ELCD.

COMMENTS:

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Vivian H. Burke, Regional Manager

DEHNR

DIVISION OF ENVIRONMENTAL MANAGEMENT

February 16, 1994

Mr. John Schafer
Post Office Box 388
Troutman, North Carolina 28166

RE: Well Water Sample Results
Schafer Well
Iredell County, N.C.

Dear Mr. Schafer:

On December 7, 1993, staff from the Mooresville Regional Office of the North Carolina Division of Environmental Management sampled your well on Highway 21 in Troutman, North Carolina. The samples were analyzed for volatile organic compounds. Volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers.

Laboratory results from these samples indicate at the time of sampling that no volatile organic compounds were present in your water supply.

Should you have any question, please call me at (704) 663-1699, ext. 235.

Sincerely,

Chris DeRoller
Hydrogeologist

Enclosure: Lab Results

cc: Iredell County Health Department

CMD/sc

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COUNTY _____

QUAD NO. L66NE SERIAL NO. _____

LAT. 35° 42' 44" LONG. 80° 53' 49"

IREDELL

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, Courier, Other _____

North Carolina
Department of Environment, Health, and Natural Resources
Division of Environmental Management
Groundwater Field/Lab Form

N.C. DEPT. OF ENVIRONMENT, HEALTH & NATURAL RESOURCES
JUL 20 1994
DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

CHAIN OF CUSTODY

LAB NUMBER B 361897

DATE RECEIVED 931208 Time 0930

Rec'd by: HMW From: Bus Courier

Other _____

DATA ENTRY BY: JH CK: DS

DATE REPORTED: 1/13/94

SAMPLE PRIORITY

☒ ROUTINE ☐ EMERGENCY

COLLECTOR(S): DeRoller DATE 12/7/93 TIME 2:55 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one) Poll. Inv.

FIELD ANALYSES

pH 400 6.5 Spec. Cond. 94 50 at 25°C

Temp. 10 15 °C Odor N/A

Appearance Clear Taste N/A

Field Analysis By: C. DeRoller

Owner Mr. John Schafer P.O. Box 388, Troutman 28166

Location or site HWY 21, W. side across from Food Lion

Description of sampling point tap at back of house

Sampling Method Pump (pump, bailer, etc.) Sample Interval 3 65' T.D.

Remarks Serves 1 business, two homes. (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 416	mg/l
	Carbonate 446	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	NO_2 + NO_3 as N 630	mg/l
	P:Total as P 665	mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
X	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments: _____

W-54 REV. 9/90

For Dissolved Analysis - submit filtered sample and write "DIS" in [illegible]

BHNR/DEH LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 3G1897

REPORTED BY
CHECKED BY
REVIEWED BY

SUPERVISOR RGK
DATE 1/13/94
ENTERED BY
CHECKED BY

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
75-35-4	1,1-Dichloroethene	0.75	U
75-09-2	Methylene Chloride	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.75	U
75-34-3	1,1-Dichloroethane	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U
67-66-3	Chloroform	0.25	U
74-97-5	Bromochloromethane	0.75	U
71-55-6	1,1,1-Trichloroethane	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
74-95-3	Dibromomethane	1	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U
127-18-4	Tetrachloroethene	0.25	U
142-28-9	1,3-Dichloropropane	0.25	U
124-48-1	Dibromochloromethane	0.75	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	0.25	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
96-18-4	1,2,3-Trichloropropane	0.25	U
108-86-1	Bromobenzene	1	U
95-49-8	2-Chlorotoluene	0.25	U
106-43-4	4-Chlorotoluene	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	0.25	U
87-68-3	Hexachlorobutadiene	0.25	U
87-61-6	1,2,3-Trichlorobenzene	0.75	U
1634-04-4	Methyl-tert-butyl ether	5	U
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethyl benzene	1	U
108-38-3	m,p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
91-20-3	Naphthalene	1	U

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks)	Detected ug/l
NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC PID/ELCD.	

COMMENTS:

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Vivian H. Burke, Regional Manager

DEHNR

DIVISION OF ENVIRONMENTAL MANAGEMENT

February 16, 1994

Ms. L. G. Mayberry
Post Office Box 100
Barium Springs, North Carolina 28010

RE: Well Water Sample Results
Mayberry Well
Iredell County, N.C.

Dear Ms. Mayberry:

On December 7, 1993, staff from the Mooresville Regional Office of the North Carolina Division of Environmental Management sampled your well on Highway 21 in Troutman, North Carolina. The samples were analyzed for volatile organic compounds. Volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers.

Laboratory results from these samples indicate at the time of sampling that no volatile organic compounds were present in your water supply.

Should you have any question, please call me at (704) 663-1699, ext. 235.

Sincerely,

Chris DeRoller
Hydrogeologist

Enclosure: Lab Results

cc: Iredell County Health Department

CMD/sc

919 North Main Street, Mooresville, North Carolina 28115 Telephone 704-663-1699 FAX 704-663-6040
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North Carolina
Department of Environment, Health and Natural Resources
Division of Environmental Management
Groundwater Field/Lab Form

CHAIN OF CUSTODY

SAMPLE PRIORITY
☒ ROUTINE ☐ EMERGENCY

DIVISION OF ENVIRONMENTAL MANAGEMENT MOORESVILLE REGIONAL OFFICE

COUNTY _____
QUAD NO. L66g-S SERIAL NO. _____
LAT. 35°43'04" LONG. 80°53'56"
Iredell
Report to: AHO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____
Shipped by: Bus, Courier, Other _____
COLLECTOR(S): D. Collier DATE 12/17/93 TIME 1:50 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER Poll-I-20.
(circle one)

LAB NUMBER # 361896
DATE RECEIVED 931208 Time 0930
Rec'd by: HMW From: Bus Courier
Other _____
DATA ENTRY BY: JH CK: DS
DATE REPORTED: 1/13/94

FIELD ANALYSES
pH 400 6.0-6.5 Spec. Cond. 94 40 at 25°C
Temp. 10 15 °C Odor None
Appearance Clear Taste N/A
Field Analysis By: CMD

Owner L.G. Mayberry P.O. Box 10 Barium Springs 28010
Location or site W. side of HWY 21 across from Blanton & Moore
Description of sampling point Tap outside of house
Sampling Method (pump, bailer, etc.) pump Sample Interval To-Link
Remarks Shallow well (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1106	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herbicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	X	Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1056	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		
	Carbon dioxide 405	mg/l		NO_2 + NO_3 as N 630	mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color,True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments: _____

W-54 (REV. 8/90) For Dissolved Analysis - submit filtered sample and write "DIS" in [illegible] k

SHWR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 3G1896

REPORTED BY
CHECKED BY
REVIEWED BY

SUPERVISOR RGK
DATE 11/13/94
ENTERED BY
CHECKED BY

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
75-35-4	1,1-Dichloroethene	0.75	U
75-09-2	Methylene Chloride	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.75	U
75-34-3	1,1-Dichloroethane	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U
67-66-3	Chloroform	0.25	U
74-97-5	Bromochloromethane	0.75	U
71-55-6	1,1,1-Trichloroethane	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
74-95-3	Dibromomethane	1	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U
127-18-4	Tetrachloroethene	0.25	U
142-28-9	1,3-Dichloropropane	0.25	U
124-48-1	Dibromochloromethane	0.75	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	0.25	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U

CAS#	VOA TARGET COMPOUND	TQL ug/l	DETECTED ug/l
96-18-4	1,2,3-Trichloropropane	0.25	U
108-86-1	Bromobenzene	1	U
95-49-8	2-Chlorotoluene	0.25	U
106-43-4	4-Chlorotoluene	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	0.25	U
87-68-3	Hexachlorobutadiene	0.25	U
87-61-6	1,2,3-Trichlorobenzene	0.75	U
1634-04-4	Methyl-tert-butyl ether	5	U
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethyl benzene	1	U
108-38-3	m,p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
91-20-3	Naphthalene	1	U

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks) — Detected ug/l

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC PID/ELCD.

COMMENTS:

State of North Carolina
Department of Environment,
Health and Natural Resources
Mooresville Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Vivian H. Burke, Regional Manager

DEHNR

DIVISION OF ENVIRONMENTAL MANAGEMENT

May 2, 1994

Mr. W. J. Parker
route 10, Box 319 B
Statesville, North Carolina 28677

RE: Well Water Sample Results
Parker Well
Iredell County, N.C.

Dear Mr. Parker:

On March 15, 1994 staff from the Mooresville Regional Office of the North Carolina Division of Environmental Management sampled your well at Route 10, Box 319 B, Statesville. The samples were analyzed for volatile organic compounds. Volatile organic compounds include a wide range of manmade compounds including, but not limited to, gasoline components and chlorinated solvents used as degreasers.

Laboratory results from these samples indicate at the time of sampling that volatile organic compounds were present in your water supply. A copy of the laboratory results is enclosed for your review. These results are:

Compound	Concentration*	EPA Drinking Water Standards*
tetrachloroethylene	.4	5
chloroform	.6	5

*Concentration in micrograms per liter (ug/l), which is also parts per billion (ppb).

None of these compounds exceed the drinking water standards. Should you have questions, please call me at (704) 663-1699, ext. 235.

Sincerely,

Chris DeRoller
Hydrogeologist

Enclosure: Lab Results
cc: Iredell County Health Department
CMD/sc

GROUNDWATER FIELD/LAB FORM

CHAIN OF CUSTODY

North Carolina
Department of Environment, Health, and Natural Resources
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION

Lab Number 4G 334
Date Received 3-16-94 Time 8:30
Rec'd by: DS From: Bus, Courier, Hand Del.,
Other:
Data Entry By: CH CK DS
Date Reported: 4/6/94

County Iredell
Quad No. 166n-24 Serial No.
Lat. 35° 42' 50" Long. 80° 54' 00"

SAMPLE PRIORITY

[X] ROUTINE [ ] EMERGENCY
[X] CHAIN OF CUSTODY

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:
Shipped by: Bus, Courier, Hand Del., Other:
Collector(s): DeMoller Date 3/15/94 Time 12:05

Purpose: Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other: Poll. Inv
(circle one)

Owner W. J. Parker
Location or site Route 10, Box 319B 28677
Description of sampling point Tap Outside in yard
Sampling Method pump (Pump, bailer, etc.) Sample Interval unk
Remarks Domestic Supply well (pumping time, air temp. etc.)

FIELD ANALYSES

pH_{400} _____ Spec. Cond.$_{94}$ _____ at 25° C
Temp.$_{10}$ _____ °C Odor _____
Appearance
Field Analysis By:

LABORATORY ANALYSES

	BOD, 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	Residue., Suspended 530	mg/l
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium: Hex 1032	ug/l
	Color: True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Flouride 951	mg/l
	Hardness; Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	NO_2 + NO_3 as N 630	mg/l
	P: Total as P 665	mg/l

N.C. DEPT. OF ENVIRONMENT, HEALTH, & NATURAL RESOURCES
APR 13 1994
DIVISION OF ENVIRONMENTAL MANAGEMENT MOORESVILLE REGIONAL OFFICE

	Ag - Silver 46566	ug/l
	Al - Aluminum 46557	ug/l
	As - Arsenic 46551	ug/l
	Ba - Barium 46558	ug/l
	Ca - Calcium 46552	mg/l
	Cd - Cadmium 46559	ug/l
	Cr - Chromium 46560	ug/l
	Cu - Copper 46562	ug/l
	Fe - Iron 46563	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 46555	mg/l
	Mg - Magnesium 46554	mg/l
	Mn - Manganese 46565	ug/l
	Na - Sodium 46556	mg/l
	Ni - Nickel	ug/l
	Pb - Lead 46564	ug/l
	Se - Selenium	ug/l
	Zn - Zinc 46567	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	Semivolatile Organics
X	Volatile Organics (VOA bottle)
	TPH - Gasoline Range
	TPH - BTEX Gasoline Range

Lab Comments:

GW-54 REV. For Dissolved Analysis - submit filtered sample and write "DIS" in block.

EHNR/DEM LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 4G334

REPORTED BY LLB
CHECKED BY
REVIEWED BY

SUPERVISOR RJK
DATE 4/6/94
ENTERED BY
CHECKED BY

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L	CAS#	VOA TARGET COMPOUND	TQL ug/L	DETECTED ug/L
75-35-4	1,1-Dichloroethene	0.75	U	96-18-4	1,2,3-Trichloropropane	0.25	U
75-09-2	Methylene Chloride	0.25	U	108-86-1	Bromobenzene	1	U
156-60-5	trans-1,2-Dichloroethene	0.75	U	95-49-8	2-Chlorotoluene	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U	106-43-4	4-Chlorotoluene	0.25	U
590-20-7	2,2-Dichloropropane	0.25	U	541-73-1	1,3-Dichlorobenzene	0.25	U
156-59-4	cis-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	U
67-66-3	Chloroform	0.25	0.6	95-50-1	1,2-Dichlorobenzene	0.25	U
74-97-5	Bromochloromethane	0.75	U	96-12-8	1,2-Dibromo-3-Chloropropane	1	U
71-55-6	1,1,1-Trichloroethane	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U	87-68-3	Hexachlorobutadiene	0.25	U
56-23-5	Carbon Tetrachloride	0.75	U	87-61-6	1,2,3-Trichlorobenzene	0.75	U
107-06-2	1,2-Dichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	5	U
79-01-6	Trichloroethene	0.25	U	71-43-2	Benzene	1	U
78-87-5	1,2-Dichloropropane	0.25	U	108-88-3	Toluene	1	U
75-27-4	Bromodichloromethane	0.25	U	100-41-4	Ethyl benzene	1	U
74-95-3	Dibromomethane	1	U	108-38-3	m,p-Xylenes	2	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U	95-47-6	o-Xylene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U	100-42-5	Styrene	1	U
79-00-5	1,1,2-Trichloroethane	0.25	U	98-82-8	Isopropylbenzene	1	U
127-18-4	Tetrachloroethene	0.25	0.4	103-65-1	n-Propylbenzene	1	U
142-28-9	1,3-Dichloropropane	0.25	U	108-67-8	1,3,5-Trimethylbenzene	1	U
124-48-1	Dibromochloromethane	0.75	U	98-06-6	tert-Butylbenzene	1	U
106-93-4	1,2-Dibromoethane	1	U	95-63-6	1,2,4-Trimethylbenzene	1	U
108-90-7	Chlorobenzene	0.25	U	135-98-8	sec-Butylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U	99-87-6	p-isopropyltoluene	1	U
75-25-2	Bromoform	0.5	U	104-51-8	n-Butylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U	91-20-3	Naphthalene	1	U

TQL- Target Quantitation Limit- Subject to change due to instrument sensitivity
T- Tentatively Identified, not confirmed
E- Estimated Value
U- Samples analyzed for this compound but not detected
N- Sample not analyzed for this compound
D- Detected below quantitation limit
M- GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks)

Detected ug/L

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC/PID.

COMMENTS:

N.C. DEPT. OF ENVIRONMENT, HEALTH, & NATURAL RESOURCES

JUN 1 1994

MAY 2 1994

ENVIRONMENTAL MANAGEMENT REGIONAL OFFICE

POLLUTION CONTROL BRANCH

N
Parker
(Bagarly Site)

North Carolina Department of Environment, Health, & Natural Resources
Division of Epidemiology
Environmental Epidemiology Section

Drinking Water Health Risk Evaluation
General

Tindell COUNTY

DATE 5/10/94 LABORATORY NUMBER 46334

(✓) 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: Trace levels should not pose any health risk at this time.

For further information, contact Dr. Ken Rudo or Dr. Luanne Williams, Environmental Epidemiology Section, (919) 733-3410.

DEHNR 3891 (5/92)
Environmental Epidemiology Section (Review 5/95)

mRO

Division of Environmental Management
GROUNDWATER SECTION
CHAIN OF CUSTODY RECORD

For Investigation of _____ Incident No. _____

Samples collected and GW-54 forms completed by: C. D. Fuller

Lab Only Lab No.	Quad No.	Location	Date	Time	No. of Containers
36-1896	L66g-8	L.G. Mayberry	12/7/93	1:50	1
36-1897	L66h-23	John Schafer	12/7/93	2:55	1

N.C. DEPT. OF ENVIRONMENT, HEALTH & NATURAL RESOURCES
DEC 13 1993
DIVISION OF ENVIRONMENTAL MANAGEMENT MOORESVILLE REGIONAL OFFICE

Relinquished by(Signature):	Received by(Signature):	Date/Time
[signature]	Harold M Williams	931208 0930
Rel.	Rec. by	/
Rel.	Rec. by	/
Rel.	Rec. by	/

Method of Shipment:

Security Type and Condition: Seal by: [signature] Broken by: Harold M Williams
Lock by: Open by:

LAB USE ONLY

Lab No. From	Lab No. Through	No. Containers	Analysis	Relinquished by	Received by	Date / Time
36-1896	36-1897	2	VOA	Harold M Williams	MHLWilson	12/8/93 0940
						/
						/
						/
						/
						/
						/
						/
						/

White copy - GW Headquarters, Canary copy - Lab, Pink copy - Region

GW-63 Revised 9/87

N. C. DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT

GROUNDWATER SECTION

CHAIN OF CUSTODY RECORD

AUG 2 6 1993

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

MRO

For Investigation of Various Incident No. Various

Samples collected and GW-54 forms completed by: C. DeRoller

Lab Only Lab No.	Quad No.	Location	Date	Time	No. of Containers
3G1377	L66n-2	Robert Little well	8/18/93	9:35	1
3G1378	L66o-1	Willie Knox well	8/18/93	9:55	1
3G1379	L66n-3	Richard Blankenship well	8/18/93	10:25	1
3G1380	L66n-sw1	Dump site Surface Water	8/18/93	10:50	1
3G1381	L66n-4	Ada Harton well	8/18/93	11:00	1
3G1382	K71r-S1	Wayne Benfields Behind ~~Bldg~~ Trailer	8/18/93	2:00	1
3G1383	K71r-S2	WB Behind Building	8/18/93	2:20	1
3G1384	K71r-S3	WB Near Drum	8/18/93	2:20	1
3G1385	K71r-1	Wayne Benfield well	8/18/93	2:29	1
	~~K71r-L~~	~~Wayne Benfields drawing liquid~~	~~8/18/93~~	~~2:35~~	~~1~~
3G1386	K71r-17	Edward Carpenter well	8/18/93	3:15	1

Relinquished by (Signature):	Received by (Signature):	Date/Time
C. DeRoller	Donna Saunders	8/19/93 9:00
Rel.	Rec. by	
Rel.	Rec. by	
Rel.	Rec. by	

Method of Shipment:

Security Type and Condition: Seal by: C. DeRoller Broken by: Donna Saunders
Lock by: Open by:

LAB USE ONLY

Lab No. From	Lab No. Through	No. Containers	Analysis	Relinquished by	Received by	Date / Time
3G1377	3G1381	5	VOA	Donna Saunders	[illegible]	8/19/93 9:27
3G1382	3G1384	3	Soil VOA	Donna Saunders	[illegible]	8/19/93 9:27
3G1385	3G1386	2	VOA	Donna Saunders	[illegible]	8/19/93 9:27

White copy - GW Headquarters, Canary copy - Lab, Pink copy - Region

GW-63 Revised 9/87