

11610 IDLEWILD RD

19317144

5/23/08

marliwr

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

Groundwater & Wastewater Services
Well Project File & Data Review Worksheet

GWS File #: 34776 WASPS App #: 5130

Primary ES assigned to project: Josh Sellers

Secondary ES assigned to project:

Project Type: New Well ☑ Well Abandonment ☐ Major Repair ☐

Septic System Status: Permit in progress ☐ System installation completed ☐ N/A-Sewer ☑

I. File Review:

Completed application	Yes ☑	No ☐	
ARGU review report	Yes ☑	No ☐	N/A ☐
Signed permit	Yes ☐	No ☐	
Notification of disinfection	Yes ☐	No ☐	N/A ☐
Sample Results	TC ☐	Nitrate/Nitrite ☐	Other ☐ N/A ☐
GW-1 Form / GW-30 Form	Yes ☐	No ☐	
Other related documentation	Yes ☐	No ☐	N/A ☐

Comments: 5/7/08 - Please fax to driller (Mullis) and mail copy to owner
4/29/09 - Forwarded VOC results to hydro for review
Retrieved WO 76906 back to Ellis for documentation that results were sent to owner

Items requiring correction/modification: ____

II. WASPS Review:

Completed application w/ valid address	Yes ☑	No ☐	
ARGU review completed	Yes ☑	No ☐	N/A ☐
Permit issued	Yes ☑	No ☐	
Activity checklist completed	Yes ☐	No ☐	
Appropriate comments included	Yes ☐	No ☐	
Site information record completed	Yes ☐	No ☐	
Well detail record completed	Yes ☐	No ☐	

Comments:

Items requiring correction/modification: ____

Application received date: 4/24/08 ES assigned date: ____ Permit issued date: 5/6/08

Well approval date: ____ Number of days to complete project: ____

Review performed by: ____ Date performed: ____

App # 4177 SC then JS File # 5130

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. **SEPTIC / TYPE APPLICATION:** ☐ N/A ☐ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☐ MODIFIED PLOT PLAN

2. **WELL / TYPE APPLICATION:** ☐ N/A ☐ NEW WELL ☒ MAJOR REPAIR ☐ ABANDONMENT

3. **JOB LOCATION INFORMATION:**
TAX PARCEL NUMBER: 19317144
STREET ADDRESS: 11610 Idlewild Rd
CITY: Matthews
STATE: NC ZIP: 28105
SUBDIVISION NAME:
LOT #: LOT SIZE (acres): BIT 1973
TOWNSHIP:
☐ 0-MECKLENBURG ☐ 3-CORNELIUS ☐ 6-HUNTERSVILLE
☐ 1-CHARLOTTE ☐ 4-PINEVILLE ☐ 7-MINT HILL
☐ 2-DAVIDSON ☒ 5-MATTHEWS

4. **BUILDING INFORMATION:**
BUILDING TYPE:
☐ SINGLE MOBILE HOME ☐ MODULAR HOME
☐ DOUBLE WIDE ☐ MULTIPLE FAMILY
☐ HOUSE ☐ OTHER _____
HEATED SQUARE FOOTAGE:
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS:
FOUNDATION TYPE:
☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☐ CRAWL SPACE ☐ BASMENT WITH NO PLUMBING

6. **IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION:** ☐ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. **WATER SUPPLY:** ☐ MUNICIPAL ☒ PRIVATE WELL ☐ PUBLIC WELL ☐ SHARED WELL ☐ OTHER _____

7. **PROPOSED USE OF WELL:** ☐ N/A ☐ IRRIGATION ☒ POTABLE (DRINKING WATER) ☐ OTHER _____

8. **PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE** *(1-MOST DESIRED 5-LEAST DESIRED)*:

☐ N/A ☐ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. **RANK:** ____ ____ ____ ____ ____

9. **DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.**

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES ☐ NO		GRADING/SOIL REMOVAL PERFORMED	☐ YES ☐ NO	
EXISTING WASTEWATER (SEPTIC) SYSTEMS	☒ YES ☐ NO		JURISDICTIONAL WETLANDS	☐ YES ☐ NO	
WELLS, SPRINGS, OR WATER LINES	☒ YES ☐ NO		APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	☐ YES ☐ NO	
EASEMENTS OR RIGHT-OF-WAYS	☐ YES ☐ NO		WASTEWATER OTHER THAN DOMESTIC SEWAGE	☐ YES ☐ NO	
CHEMICAL/PETROLEUM STORAGE TANKS	☐ YES ☐ NO		KNOWN UNDERGROUND CONTAMINATION	☐ YES ☐ NO	
WASTE STORAGE	☐ YES ☐ NO		GROUNDWATER USE RESTRICTIONS/VARIANCES	☐ YES ☐ NO	

10. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** _____ ☐ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** _____ ☐ N/A

12. **PROPERTY OWNER:**
NAME: Nellie + Jackie Vea
ADDRESS: 11610 Idlewild Rd.
CITY: Matthews
STATE: NC ZIP: 28105
HOME PHONE: 704 847 7069
WORK PHONE:
MOBILE PHONE:
FAX:

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**
NAME: DL Mullis Well Drilling
ADDRESS: PO Box 691446
CITY: Charlotte
STATE: NC ZIP: 28227
HOME PHONE: 704-545-5694
WORK PHONE: 704-545-5694
MOBILE PHONE:
FAX: 704-545-9449

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 7/1/08

0754

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

_____ (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

AP (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below.

Property Owner's or Owner's Legal Representative Signature — Date: 5/1/09

OFFICE USE ONLY

☐ SURVEY PLAT TO SCALE SUBMITTED ☐ SCALED SITE PLAN SUBMITTED ☐ UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEES RECEIVED: $ _____ (Copy) DATE FEE RECEIVED: _____

WELL APPLICATION FEES RECEIVED: $ 100 (14690) DATE FEE RECEIVED: 5/1/09

APPLICATION PROCESSED BY: JC

GWS FILE NUMBER ASSIGNED: 05130

APPLICATION ID NUMBER ASSIGNED: 4177

COMMENTS:

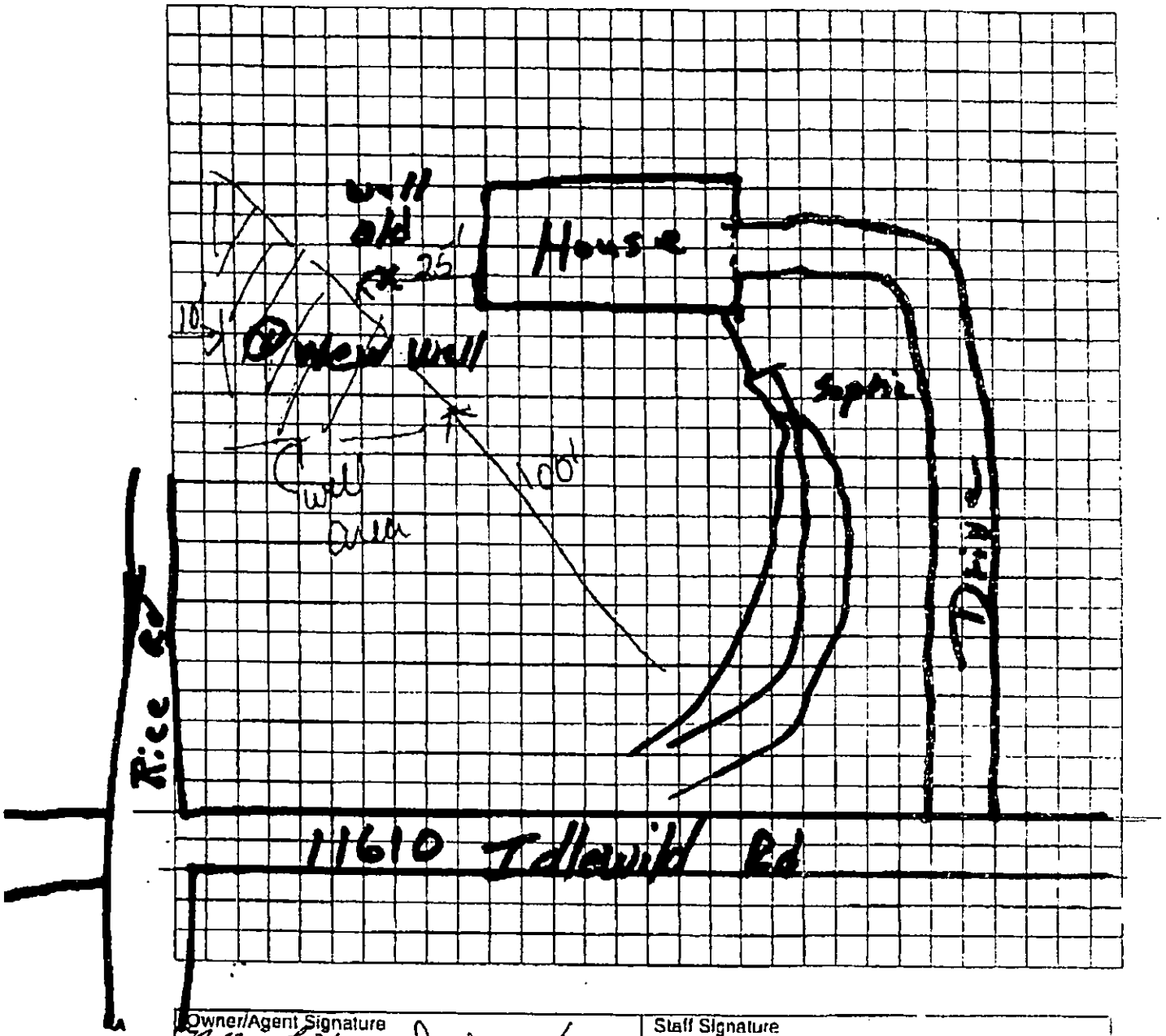
MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Mecklenburg County
Land Use & Environmental Service Agency
Groundwater & Wastewater Services
700 N. Tryon St., Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-8884

File #_____
Approval Date_____

APPROVED PLOT PLAN

A map showing existing and proposed property lines and easements with dimensions, the location of the single family residence, non-single family residence, or other facility, and appurtenances, the site for the proposed well, and the location of existing or proposed sewer lines and/or sewage disposal systems, surface water bodies, aboveground or underground storage tanks. Name all roads adjoining the property.



Owner/Agent Signature	Staff Signature
Nellie L. Vea Jack A. Vea	
Date	Date

LBC 12/15/04

Residential J. Sellers

FILE NUMBER: 5130 Revised On: January 3, 2007 APPLICATION NUMBER: 3476

SEPTIC FEE: _____
DATE: _____

MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES
APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

WELL FEE: 400.00
DATE: 4-24-08
CK# 11602

1. SEPTIC / TYPE APPLICATION: ☐ NONE ☐ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☐ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ☐ NONE ☒ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

3. JOB LOCATION INFORMATION:
TAX PARCEL NUMBER: 193-171-44
STREET ADDRESS: 11610 Idlewild Rd
CITY: Matthews
STATE: NC ZIP: 28104
SUBDIVISION NAME:
LOT #: LOT SIZE (acres): 2.74

TOWNSHIP:
☐ 0-MECKLENBURG ☐ 3-CORNELIUS ☐ 6-HUNTERSVILLE
☐ 1-CHARLOTTE ☐ 4-PINEVILLE ☐ 7-MINT HILL
☐ 2-DAVIDSON ☒ 5-MATTHEWS

4. BUILDING INFORMATION:
BUILDING TYPE:
☐ SINGLE MOBILE HOME ☐ MODULAR HOME
☐ DOUBLE WIDE ☐ MULTIPLE FAMILY
☒ HOUSE ☐ OTHER _____
HEATED SQUARE FOOTAGE: 2200
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS: 2
FOUNDATION TYPE:
☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☒ CRAWL SPACE ☐ BASMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☐ N/A
NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ☐ MUNICIPAL ☐ PUBLIC WELL ☒ PRIVATE WELL ☐ SHARED WELL ☐ SPRING
7. PROPOSED USE OF WELL: ☐ N/A ☐ IRRIGATION ☒ POTABLE ☐ GEOTHERMAL ☐ OTHER

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:
☐ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____
8A. RANK: ____ ____ ____ ____

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES ☒ NO	GRADING/SOIL REMOVAL PERFORMED	☐ YES ☒ NO
EXISTING WASTEWATER SYSTEMS	☒ YES ☐ NO	JURISDICTIONAL WETLANDS	☐ YES ☒ NO
WELLS, SPRINGS, OR WATER LINES	☐ YES ☒ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	☐ YES ☒ NO
EASEMENTS OR RIGHT-OF-WAYS	☐ YES ☒ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	☐ YES ☒ NO

10. PROPERTY OWNER:
NAME: Nellie L. + Jackie A. Vea
ADDRESS: 11610 Idlewild Rd.
CITY: Matthews
STATE: NC ZIP: 28105
HOME PHONE: 704-847-7069 WORK PHONE:
MOBILE PHONE: FAX:

11. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: DL Mullis Well Drilling
ADDRESS: 9200 Surface Hill Rd
CITY: Charlotte
STATE: NC ZIP: 28227
HOME PHONE: WORK PHONE: 7045455694
MOBILE PHONE: recorded FAX: 7045459449

12. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 6/7/2002 in our names.
13 WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? _____

14. SEPTIC SYSTEM PERMIT APPLICATION SIGNATURE SECTION:
If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either 60 months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

Property Owner's or Owner's Legal Representative Signature Date

15. WELL PERMIT APPLICATION SIGNATURE SECTION:
If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of 12 months from the date of issuance.

Nellie L. Vea Jackie A. Vea 4/24/08
Property Owner's or Owner's Legal Representative Signature Date

☐ SURVEY PLAT TO SCALE SUBMITTED ☐ SCALED SITE PLAN SUBMITTED ☐ UN-SCALED SITE PLAN SUBMITTED

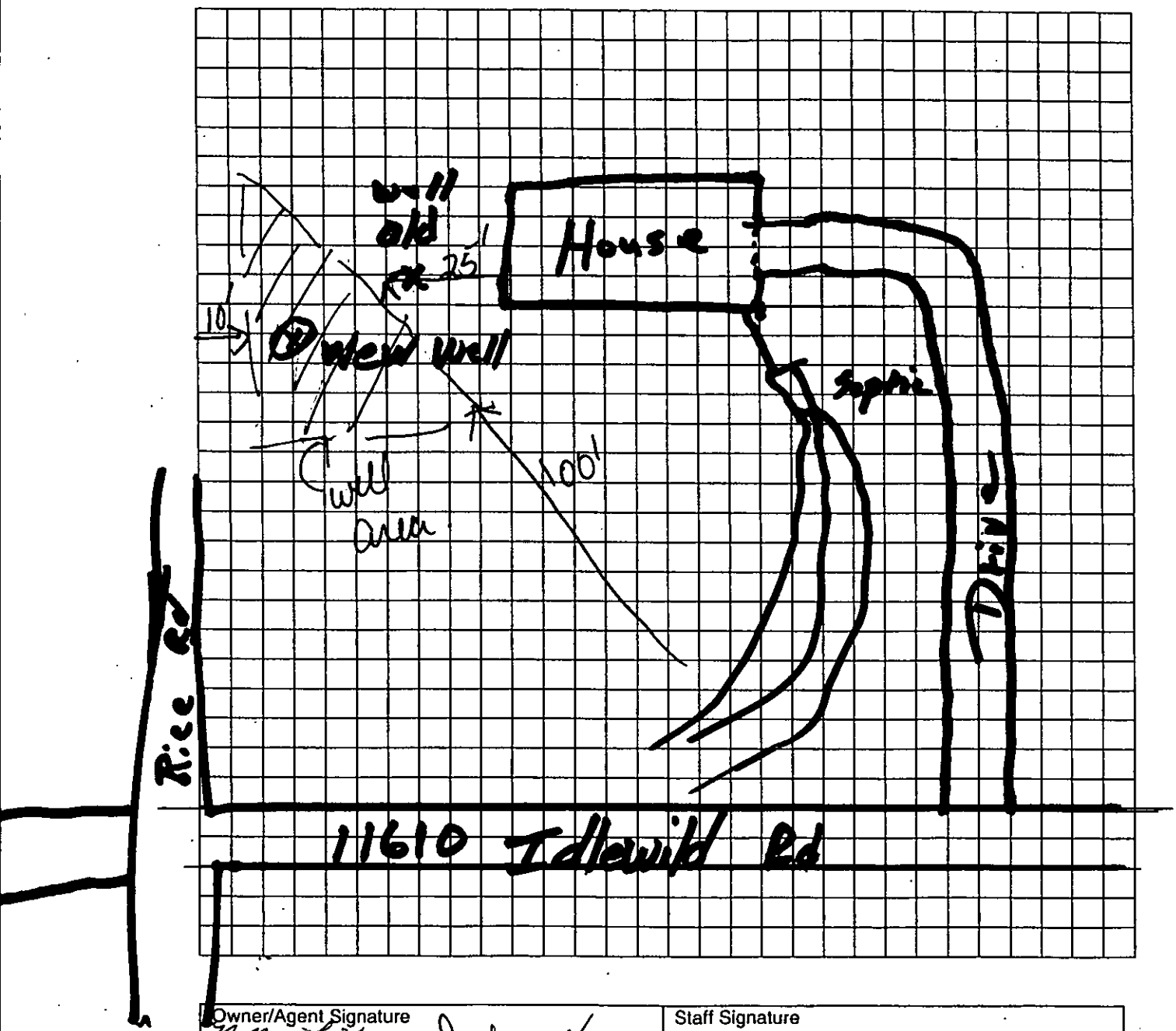
MECKLENBURG COUNTY-GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST., SUITE 211, CHARLOTTE, NC 28202 PHONE: (704) 336-5103 FAX: (704) 336-6894

Mecklenburg County
Land Use & Environmental Service Agency
Groundwater & Wastewater Services
700 N. Tryon St., Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-6894

File #_____
Approval Date_____

APPROVED PLOT PLAN

A map showing existing and proposed property lines and easements with dimensions, the location of the single family residence, non-single family residence, or other facility, and appurtenances, the site for the proposed well, and the location of existing or proposed sewer lines and/or sewage disposal systems, surface water bodies, aboveground or underground storage tanks. Name all roads adjoining the property.



Owner/Agent Signature Nellie L. Vea Jack A. Vea	Staff Signature
Date 4/24/08	Date

LBC 12/15/04

Groundwater & Wastewater Services
700 N. Tryon St., Suite 211
Charlotte, NC 28202
704-336-5103 Phone 704-336-6894 Fax

WORK ORDER

Work Order Information

Work Order Number: **76194**
Work Order Type: **ARGU Well Review**
Submitted To: STUTTS, JACK
Date Initiated: 5/5/08 2:54:59 PM
Date Completed: 5/5/08 2:55:00 PM
Date Closed:
Unattached WO: N
Associated SR Number:

Priority: **3**
Status: IP

Initiated By: CALDWELL, SHAWNA
Completed By: CALDWELL, SHAWNA
Closed By:

Location

Address: **11610 IDLEWILD ROAD**
Location:

Instructions

1. Create one work order for each ARGU review performed.
2. Geocode the location using the location address from WASPS.
3. Attach the appropriate GIS well feature(s) from the ARGU_Wells_WASPS data layer under the ENTITIES tab.
4. Select the appropriate TOWN under the DETAILS tab.
5. All documentation associated w/ the review should be included as attachments.
6. Enter time for labor required to complete all work associated w/ review.
7. Use the COMMENTS field to document work activities.

ARGU Well features are automatically created in gis when the well permit application is entered into WASPS.

Comments

Create one work order per ARGU Review
By CALDWELL, SHAWNA: 5/5/08 2:56:31 PM
The proposed well location (entire PID#193-171-44)is within 1,500', but outside 1,000' and downgradient of a contamination plume with a natural attenuation CAP, therefore the well permit can be granted with full grouting of the casing and sampling for VOCs following installation and biannually thereafter required.

EDMS Report for ARGU Review
11610 Idlewild Road, Matthews
Tax Parcel ID # 193-171-44
File # 5130
App. #3476

Public water supplied by CMU is available at this site.

5/2/08 (Fri.) – Received request for ARGU review for new water supply well located at 11610 Idlewild Road. Cityworks indicates no other well at this location, but permit indicates existing well.

5/5/08 (Mon.) – Identified one MPL site within 1,500 feet of the subject parcel:

MPL# 1184 Kenan Transport Fuel Spill
11932 Idlewild Road, Matthews, NC
NCDENR Aquifer Protection Section Inc. # 86737
Source: Gasoline tanker rollover

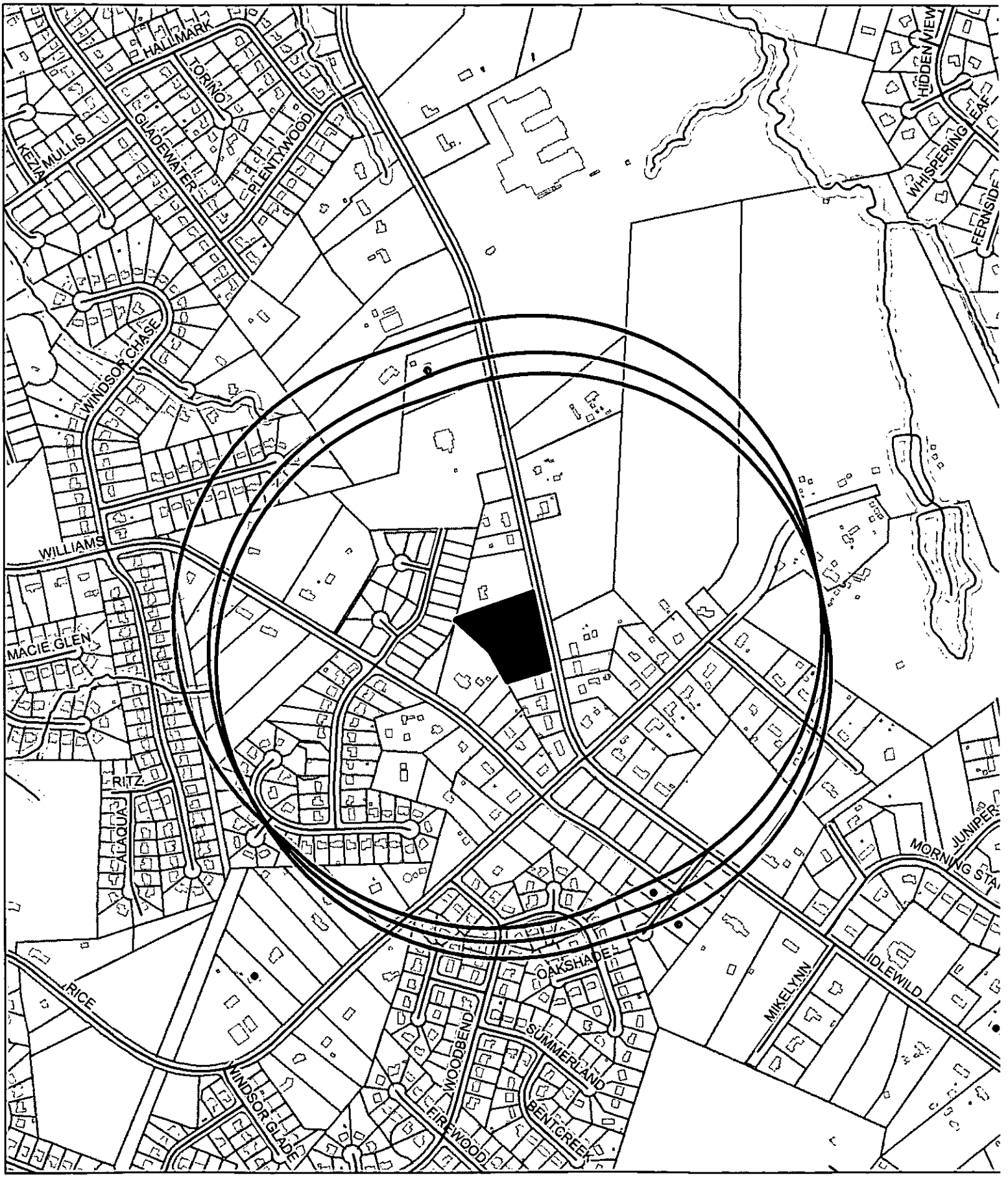
File review indicates a natural attenuation CAP recommended for the site. GW contaminant plume extends across three parcels, PID#193-171-28, 193-171-29 and 193-171-30.

MPL investigation completed in 2003. 55 wells were discovered and 9 were sampled for VOCs with no detections.

The referenced WSW location (the entire parcel) is within 1,500' of the extent of the contaminant plume for the Kenan Transport Fuel Spill MPL and is downgradient of the MPL site.

Based on this review this permit application is approved with the following conditions: The well will require installation under the Mecklenburg Co. Groundwater Regulations dated Oct. 5, 2004 Chapter VII Section IV Requirements for New Water Supply Wells Within an Area of Regulated Groundwater Usage to include grouting the full extent of the casing and GW sampling initially and biannually thereafter for volatiles.

ARGU Review for File #5130



1,500' radius around PID #193-171-28 (blue), 193-171-29(green) and 193-171-30(red)

0 0.05 0.1 0.2 Miles

Date: 5/4/2008
Reviewed By: SWC

MECKLENBURG COUNTY

Land Use & Environmental Services Agency
Groundwater & Wastewater Services

ARGU Review Worksheet

Job Location Information

Tax Parcel ID #: 193-171-44 File # 5130

Street Address: 11610 Idlewild Road

Contamination Site Information

(If more than one contamination site is within 2000 feet of the job location, fill out a separate review worksheet for each contamination site)

Tax Parcel ID #: 193-171-28/29/30 MPL 1184 Kennan Transport Fuel Spill

Street Address: 11932/11924/11908 Idlewild Road

DENR Incident #: 86737

Current Status: Remediation Why? NCDENR recommended natural attenuation CAP
Gasoline constituents remain in groundwater above 2L standards.

Responsible Party: Kennan Transport

Responsible Party Contact Info: BOB JAYNE
KENAN TRANSPORT
PO BOX 2729
CHAPEL HILL, NC
(919)929-4740

File Review

Attach the most recent extent of contamination map for each constituent above either 2L groundwater standard or Maximum Soil Contaminant Concentration (MSCC).

Attach copies of groundwater flow maps. (Watch of seasonal change)

Attach a copy of the most recent summary table for soil/groundwater laboratory analysis
Is the source area identified in either the report text or on a site map? Attach map or if text only, indicated the location on an extent of contamination map. YES
Based on this information, answer the following questions:

Has the extent of contamination been defined or partially defined for all constituents-of-concern? YES

If Yes	ARGU is a 1500-foot buffer around the maximum extent of contamination

If No, is the source area defined?

If Yes	ARGU is a 1500-foot buffer around the source area
If No	ARGU is a 1500-foot buffer around the contamination site property boundary.

Is a public water supply (other than transient or non-transient supply wells) available to the proposed job location? YES

If No	Well allowed, but construction requirements apply. Sampling requirements may apply pending hydrogeologic review.	
If Yes	Is the well within the first 1000 feet of the ARGU?	NO
If No	Well allowed, but construction requirements apply. Sampling requirements may apply pending hydrogeologic review.	
If Yes	Permit denied.	

Reviewer Comments: This proposed well location is within 1,500-ft but more than 1,000 feet downgradient of a contamination site where NCDENR has recommended a Natural Attenuation CAP. Permit can therefore be approved with full grouting of the casing and sampling for VOCs following installation and biannually thereafter.

Mecklenburg County Health Department
Groundwater & Wastewater Services
700 N. Tryon St, Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-6894

PERMIT TO CONSTRUCT A WATER SUPPLY WELL

Permit #: 10003476 **File #:** 5130 **Tax Parcel #:** 193-171-44
Property Owner: NELLIE L. & JACKIE A. VEA
Job Location Address: 11610 IDLEWILD RD
City/ETJ: MATTHEWS **State:** NC **Zip Code:** 28105
Permit Issuance Date: 5/6/2008
Use of Well: Potable
Type of Facility Served by Well: House
Sewage System Type: None

Area of Regulated Groundwater Usage Restrictions Apply: YES

Replacement for Existing Well: If Yes, see requirements in Other Conditions of This Permit.

General Conditions of This Permit:

- Water Supply Well construction must meet all requirements set forth in the *Mecklenburg County Groundwater Well Regulations* and any other applicable rules and laws.
- A North Carolina Certified Well Contractor must perform the well construction activities.
- The permitted Water Supply Well shall be located in accordance with the attached SITE PLAN.
- Any alteration of the site (including location of structures and appurtenances) or modification in use of the well, may subject this Permit to revocation.
- The Department will collect an initial sample of water from the Water Supply Well and analyze the sample for total coliform bacteria, nitrate, and nitrite. A review of the analysis by the Department must find the sample to meet the groundwater quality standards specified in Chapter 5 of the Mecklenburg County Groundwater Well Regulations before the Water Supply Well can be placed in service.
- This Permit shall be VALID for a period not to exceed 12 months from the date of issuance.

Specific Conditions of This Permit (Check all that apply):

[X] Grout must be placed the full extent of the casing. [X] Casing to bedrock

[X] Initial water sample to be taken and analyzed for (check all that apply):

[X] Volatile Organic Compounds (VOC's) [ ] Semi-volatile Compounds [ ] Metals (Specify in Other Conditions)
[ ] Pesticides [ ] Herbicides [ ] Other (See Below)

The analysis must be submitted to the Department for review and approval prior to the Water Supply well being placed in service.

Other Conditions of This Permit:

The proposed well location (entire PID#193-171-44)is within 1,500', but outside 1,000' and downgradient of a contamination plume with a natural attenuation CAP, therefore full grouting of the casing and sampling for VOCs following installation and biannual

Joshua R. Sellers R.S. Jack A. Vea

Authorized Agent: Print Name Owner/Legal Agent: Print Name

Joshua R. Sellers R.S. Jack a. Vea

Signature: Signature:

J Seller

FAXED 7:48 Am 5/16/08

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2036

1. **WELL CONTRACTOR:**
Kelvin Belk
Well Contractor (Individual) Name
DL Mullis Well Drilling
Well Contractor Company Name
STREET ADDRESS 9200 Surface Hill Rd
Charlotte NC 28227
City or Town State Zip Code
704-5455694
Area code- Phone number

2. **WELL INFORMATION:**
SITE WELL ID #(if applicable)
STATE WELL PERMIT#(if applicable) CC0003476
DWQ or OTHER PERMIT #(if applicable)
WELL USE (Check Applicable Box): Residential Water Supply ☐
DATE DRILLED 5-14-08
TIME COMPLETED 12:30 AM ☐ PM ☑

3. **WELL LOCATION:**
CITY: CHARLOTTE COUNTY MECK
11610 Idlewild Rd
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING:
☐ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other
(check appropriate box)
LATITUDE 35° 8.950'
LONGITUDE 80° 42.024'
May be in degrees, minutes, seconds or in a decimal format
Latitude/longitude source: ☐ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. **WELL OWNER**
OWNER'S NAME Nellie & Jack Vea
STREET ADDRESS 11610 Idlewild Rd
Matthews NC 28105
City or Town State Zip Code
704-847-7069
Area code - Phone number

5. **WELL DETAILS:**
a. TOTAL DEPTH: 210'
b. DOES WELL REPLACE EXISTING WELL? YES ☑ NO ☐
c. WATER LEVEL Below Top of Casing: 40' FT.
(Use "+" If Above Top of Casing)
d. TOP OF CASING IS 1½' FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. YIELD (gpm): 30 METHOD OF TEST AIR

f. DISINFECTION: Type HTH Amount 1 lb

g. WATER ZONES (depth):

From	To 98'	From	To
From	To 104'	From	To
From	To	From	To

6. **CASING:**

	Depth		Diameter	Thickness/ Weight	Material
From 0	To 69'	Ft.	6 1/8"	.25"	PVC
From	To	Ft.			
From	To	Ft.			

7. **GROUT:**

	Depth		Material	Method
From 0'	To 69'	Ft.	bentonite	pumped
From	To	Ft.		
From	To	Ft.		

8. **SCREEN:**

	Depth		Diameter	Slot Size	Material
From	To	Ft.	in.	in.	
From	To	Ft.	in.	in.	
From	To	Ft.	in.	in.	

9. **SAND/GRAVEL PACK:**

	Depth		Size	Material
From	To	Ft.		
From	To	Ft.		
From	To	Ft.		

10. **DRILLING LOG**

From	To	Formation Description
0'	12'	clay
12'	40'	sand
40'	90'	limestone
90'	210'	granite

11. **REMARKS:**

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

Dave for Kelvin Belk 5-14-08
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

KELVIN BELK
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt.

Form GW-1b

CHARLOTTE.

Laboratory Analysis Report
Report Date/Time: 7/2/2008 10:14

LABORATORY SERVICES DIVISION

CHAIN OF CUSTODY #: 080630155216

Sample ID	Location Code	Location Description		Collection Type	Sample Date/Time		
Parameter		*Result*	*Units*	*RL*	*Method*	*Start Date/Time*	*Analyst*
AC74007	G-NEW	GWO-76806		Grab	6/30/2008 12:40		
Total Coliform- P/A		ABSENT	P/A		SM 9223B	6/30/2008 16:18	EKR
Comment:							
AC74007	G-NEW	GWO-76806		Grab	6/30/2008 12:40		
E. COLI-PA		ABSENT	P/A		SM 9223B	6/30/2008 16:18	EKR
Comment:							

Laboratory Supervisor: _____

Laboratory Certifications:McAlpine N.C.DENR Cert No.148; Brookshire N.C.DENR Cert No.162; Hal Marshall N.C.DENR Cert No. 192, N.C.DHHS Laboratory No.37527

CHARLOTTE-MECKLENBURG UTILITIES - LABORATORY SERVICES DIVISION

CHAIN OF CUSTODY RECORD

Hal Marshall Laboratory, 700 North Tryon St., Charlotte, NC 28202, 704/336-5460

PAGE 1 OF 1

CLIENT:	Mecklenburg County, LUESA - Groundwater & Wastewater Services
FACILITY:	Groundwater (Potable Water)
ADDRESS:	11610 Idlewild Rd
LAB CODE:	REAL PRIV NEW TNC MPL PME AMB LM OTHER

Send Report To: GWS
Joshua R. Sellers R.S.
700 N. Tryon St., Suite 211
Charlotte, NC 28202

COC#: 080630155216
Sampled By (Print Name)
Joshua R. Sellers R.S.

SAMPLE ID	Sample Collector's Initials	Sample Collection: Begin Date and Time	Sample Collection: End Date and Time	Chlorinated System Y or N	Sample Temperature: Collection Temp °C	Sample Temperature: Receipt Temp °C	Sample Type: Depth Composite	Sample Type: Auto Composite	Sample Type: Hand Comp	Sample Type: Grab	Sample Containers: Plastic	Sample Containers: Glass	Sample Containers: # Containers	Chemical Preservative: None	HNO3	H2SO4	NaOH	HCl	Na2S2O3	pH Correct	Analyses Requested: Total Coliform
GWO-76806 AC74007	JRS	6/30/08 12:40P	N/A N/A	N	N/A	2.1				X	1 (100 ml)		1						X		X

Instructions:
Complete all yellow shaded sections
For each parameter requested circle the X to verify your request.
Nutrients include: Ammonia, TKN, Total Phosphorus, Nitrate/Nitrite
Metals: Itemize the individual metals requested here -
For Composite samples record the autosampler Begin date/time and End date/time, for Grab samples record the collect time as the Begin date/time only.
Blue is for lab use only
Comments: **3-DAY TAT REQUESTED**

Relinquished By (Signature)	Received By (Signature)	Date	Time
Joshua R. Sellers	M Bradley	06-30-08	3:40P

Form Revision 07; effective 02/16/2006

Lab Codes: REAL=Real Estate, PRIV=Private Well, NEW=New Permitted Well, TNC=Transient Non-Community, AMB=Ambient, LM=Landfill

North Carolina State Laboratory of Public Health
Department of Health and Human Services
P. O. Box 28047 -- 306 N. Wilmington St. -- Raleigh, N. C. 27611-8047

INORGANIC CHEMICAL ANALYSIS - NITRATE ONLY

Name of System: GWO - 76806
Address: 11610 Idlewild Rd
Matthews, NC **Zip:** 28105
County: MECKLENB

Source of Water: Ground
Source of Sample:
Type of Sample: Raw
Type of Treatment: None
Type of Analysis: Nitrate
Category: Other

Report To: Mecklenburg Co. Env. Health
700 North Tryon Street
Charlotte, NC 28202
Courier: 05-16-21
ATTN: (704) 336-5101

Collected By: J SELLERS **Date:** 7/1/2008 **Time:** 8:00:00 AM
Location of sampling point: Well head
Remarks:

Parameters	Results	Units	Date Analyzed:
Nitrite as N	<0.10	mg/l	7/2/2008
Nitrate as N	1.94	mg/l	7/2/2008

North Carolina Public Health

EXPLANATION OF RESULTS:

Foster/Therapeutic Homes: Nitrate-N level acceptable if less than or equal to 10 mg/l
Private Well Guidelines: Nitrite-N level should be ≤ 1.0 mg/l and Nitrate-N ≤ 10.0 mg/l

Sample Temperature on Receipt: 2.5 °C
Date Received: 7/2/2008 **Report Date:** 7/16/2008 **Reported By:** Debbie Mencel
Today's Date: 7/16/2008 **Reference:** 8639 **Login Batch** 08070004 **Sample Number:** AB74507

Explanations

Coliform Analysis:
If coliform bacteria are Absent, the water is considered safe for drinking purposes. If coliform bacteria are Present, the water is considered unsafe for drinking purposes. Presence of E. coli (bacteria) generally indicates that the water has been contaminated with fecal material. It must be remembered that a water analysis refers only to the sample received and should not be regarded as a complete report on the water supply.

Inorganic Analysis:
Recommended limits for drinking water. Sample should not exceed levels listed below.

Alkalinity	No established limits	Iron	0.30 mg/l
Arsenic	0.01 mg/l	Lead	0.015 mg/l
Calcium	No established limits	Magnesium	No established limits
Chloride	250 mg/l	Manganese	0.05 mg/l
Copper	1.3 mg/l	Nitrate	10 mg/l (as N)
Fluoride	4 mg/l	Nitrite	1.0 mg/l (as N)
Hardness	No established limits	pH	Not less than 6.5 units
		Zinc	5.0 mg/l

WO 76806

CHARLOTTE.

Laboratory Analysis Report
Report Date: 6/4/2008 02:48 PM

LABORATORY SERVICES DIVISION

LOCATION: GWO-76579
LOC ID: G-NEW
SAMPLE DATE-TIME: 6/2/2008 9:00
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 080602153537

Parameter	Result	Units	RL	Method	Start Date/	Time	Analyst
AC70552 E. COLI-PA	ABSENT	P/A		SM 9223B	6/2/2008	16:05	GHK
AC70552 Total Coliform- P/A	PRESENT	P/A		SM 9223B	6/2/2008	16:05	GHK
AC70552 Chloromethane	Less Than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Bromomethane	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Chloroethane	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Iodomethane	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Acrolein	Less than	ug/L	50	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Methylene Chloride	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Acetone	Less than	ug/L	10	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,1-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 cis-1,2- Dichloroethene	6	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Chloroform	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Benzene	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Trichloroethene	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Dibromomethane	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,2-Dichlorpropane	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Toluene	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA

CHARLOTTE.

Laboratory Analysis Report
Report Date: 6/4/2008 02:48 PM

LABORATORY SERVICES DIVISION

LOCATION: GWO-76579
LOC ID: G-NEW
SAMPLE DATE-TIME: 6/2/2008 9:00 CHAIN OF CUSTODY #: 080602153537
SAMPLE DESCRIPTION: Grab

Parameter	Result	Units	RL	Method	Start Date/	Time	Analyst
AC70552 Tetrachloroethene	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 2-Hexanone	Less than	ug/L	10	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Total Xylenes	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Styrene	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 Bromoform	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	6/2/2008	20:17	SDA
AC70552 1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	6/2/2008	20:17	SDA

Comment:

Laboratory Supervisor: Rhonda Johnson

Laboratory Certifications: CMU-Environmental Laboratory Services, N.C.DHHS Laboratory No. 37417, N.C. DENR No. 192
Brookshire: N.C. DENR No 162, N.C. DHHS Laboratory No 37605

CHARLOTTE-MECKLENBURG UTILITIES - LABORATORY SERVICES DIVISION

CHAIN OF CUSTODY RECORD

Hal Marshall Laboratory, 700 North Tryon St., Charlotte, NC 28202, 704/336-5460

PAGE 1 OF 1

CLIENT:	Mecklenburg County, LUESA - Groundwater & Wastewater Services
FACILITY:	Groundwater (Potable Water)
ADDRESS:	11610 Idlewild Rd.
LAB CODE:	REAL PRIV (NEW) TNC MPL PME AMB LM OTHER

Send Report To: GWS
700 N. Tryon St., Suite 211
Charlotte, NC 28202

COC#: 080602153537
Sampled By (Print Name): JOSHUA R. SELLERS

Instructions: Indicate the Sample ID to identify the sampling site. Record sampler initials, sample collection data, sample temperature, and sample type. The Sample Containers column indicate the container to use for the parameters selected under the Analyses Requested columns. Multiple analyses can be requested from the same site on a single COC. Samples are relinquished in person to the Received By lab staff.

SAMPLE ID	Sample Collector's Initials	Sample Collection: Begin Date and Time	Sample Collection: End Date and Time	Chlorinated System: Y or N	Sample Temperature: Collection Temp °C	Sample Temperature: Receipt Temp °C	Sample Type: Depth Composite	Sample Type: Auto Composite	Sample Type: Hand Comp	Sample Type: Grab	Sample Containers: Plastic	Sample Containers: Glass	Sample Containers: # Containers	Chemical Preservative: None	HNO3	H2SO4	NaOH	HCl	Na2S2O3	pH Correct	Analyses Requested: BOD_5	$CBOD_5$	COD	TOC	TSS	TDS	TS	Nutrients	o-Phosphate	Nitrite only	Alkalinity	Hardness	Turbidity	Metals	Fecal Coliform	Pest/PCB; EPA 608	Herb; EPA 8151	VOA; EPA 8260	Semi; EPA 8270	Chlorophyll a	Total Coliform	Chloride
GWO-				N							1000 ml		1	X							X	X																				
											1000 ml		1	X											X	X	X				X		X									
											500 ML		1			X							X					X														
											500 ML		1		X																X		X									
											125 ML		1	X															X	X												
TC705552	GWO-7657	JRS	06-02-08 9:00A.M	N		4.4				X	100 ML		1						X															X					X	X	
												1000 ml	3	X																						X	X		X			
TC705552	GWO-7657	JRS	06-02-08 9:00A.M	N	15.5	4.4				X		40 ml	2					X																				X				
					N/A						1000 ml		1	X																												X
											250 ML		1	X																										X		

Instructions:
- Complete all yellow shaded sections
- For each parameter requested circle the X to verify your request.
- Nutrients include: Ammonia; TKN, Total Phosphorus, Nitrate/Nitrite
- Metals: Itemize the individual metals requested here -
- For Composite samples record the autosampler Begin date/time and End date/time, for Grab samples record the collect time as the Begin date/time only.
- Blue is for lab use only

Comments:

Relinquished By (Signature)	Received By (Signature)	Date	Time
Joshua R Sellers	[signature]	06-02-08	3:25PM

Form Revision 07; effective 02/16/2006

Lab Codes: REAL=Real Estate, PRIV=Private Well, NEW=New Permitted Well, TNC=Transient Non-Community, AMB=Ambient, LM=Landfill

Chemical Fact Sheet

Chemical Abstract Number (CAS #)	156592
Synonyms	cis-1,2-Dichloroethene
	cis-1,2-Dichloroethylene
Analytical Methods	EPA Method 502.2
	EPA Method 524.1
	EPA Method 524.2
	EPA Method 8021A
Molecular Formula	$C_2H_2Cl_2$
Use	SOLVENT & CHEMICAL INTERMEDIATE. SOLVENT (AS ISOMERIC MIXT) FOR PERFUMES, DYES, & LACQUERS. SOLVENT (AS MIXT) FOR THERMOPLASTICS, FATS, & PHENOLS. SOLVENT (AS MIXT) FOR CAMPHOR & NATURAL RUBBER. CHEM INT (AS ISOMERIC MIXT) FOR CHLORINATED CMPD. AGENT IN RETARDING FERMENTATION. Used as a solvent for waxes, resins, and acetylcellulose. It is also used in the extraction of rubber, as a refrigerant, in the manufacture of pharmaceuticals and artificial pearls and in the extraction of oils and fats from fish and meat. 1,2-Dichloroethylene CIS- & TRANS-ISOMERS OF 1,2-DICHLOROETHYLENE HAVE HAD USE AS SOLVENTS & CHEM INTERMEDIATES. NEITHER OF ISOMERS HAS DEVELOPED WIDE INDUSTRIAL USAGE IN THE US PARTLY BECAUSE OF THEIR FLAMMABILITY. CIS AND TRANS ISOMERS
Apparent Color	Liquid; Colorless
Boiling Point	60.3 DEG C @ 760 MM HG
Melting Point	-80.5 DEG C
Molecular Weight	96.94
Density	1.2837 @ 20 DEG C/4 DEG C
Sensitivity Data	1,2-Dichloroethylene is an eye irritant. 1,2-Dichloroethylene
Environmental Impact	Cis-1,2-dichloroethylene may be released to the environment in emissions and wastewater during its production and use. Under anaerobic conditions that may exist in landfills or sediment, one is likely to find 1,2-dichloroethylenes that are formed as breakdown products from the reductive dehalogenation of trichloroethylene and tetrachloroethylene. The cis-1,2-dichloroethylene is apparently the more common isomer found although it is mistakenly listed as the trans isomer. The trans isomer, being a priority pollutant is more commonly analyzed for and the analytical procedures generally used do not distinguish the isomers. If cis-1,2-dichloroethylene is released on soil, it should evaporate and/or leach into the groundwater where very slow biodegradation should occur. If released into water, cis-1,2-dichloroethylene will be lost mainly through volatilization (half life 3 hr in a

	model river). Biodegradation, adsorption to sediment, and bioconcentration in aquatic organisms should not be significant. In the atmosphere cis-1,2-dichloroethylene will be lost by reaction with photochemically produced hydroxyl radicals (half life 8 days) and scavenged by rain. Because it is relatively long lived in the atmosphere, considerable dispersal from source areas should occur. The general population is exposed to cis-1,2-dichloroethylene in urban air as well as in contaminated drinking water from ground water sources. Occupational exposure will be via dermal contact with the vapor and liquid or via inhalation.
Environmental Fate	TERRESTIAL FATE: If cis-1,2-dichloroethylene is released on soil, it should evaporate and/or leach into the groundwater where very slow biodegradation should occur. AQUATIC FATE: If released into water, cis-1,2-dichloroethylene will be lost mainly through volatilization (half life 3 hr in a model river). Biodegradation and adsorption to sediment should not be significant. ATMOSPHERIC FATE: In the atmosphere cis-1,2-dichloroethylene will be lost by reaction with photochemically produced hydroxyl radicals (half-life 8 days). There is evidence that it will be scavenged by rain which is to be expected of a water soluble chemical.
Drinking Water Impact	Evaporation from water at 25 deg C of 1 ppm solution: 50% after 24 min, 90% after 83 min. 1,2-Dichloroethylene DRINKING WATER: Cis-1,2-dichloroethylene was found in Miami drinking water at 16 ppb and Cincinnatti and Philadelphia drinking water at 0.1 ppb, but was absent from 7 other drinking waters surveyed . GROUNDWATER: Raw water from a well in Wausau, WI contained 83.3 ppb of cis-1,2-dichloroethylene . Studies of the contaminants in shallow groundwater at the Miami Drum site, an inactive drum recycling facility, reported 839 and 13.3-17.9 ppb of cis-1,2-dichloroethylene . The Biscayne aquifer, that supplies drinking water to residents of Dade County contained 0-26 ppb of cis-dichloroethylene in the vicinity of the Miami Drum site . SURFACE WATER: Cis 1,2- dichloroethylene was found along a 30 km stretch of the Glatt River in Switzerland at load levels of 1 g/hr . EFFL: In a comprehensive survey of wastewater from 4000 industrial and publicly owned treatment works (POTWs) sponsored by the Effluent Guidelines Division of the USEPA, cis-1,2-dichloroethylene was identified in discharges of the following industrial category (frequency of occurrence; median concn in ppb): steam electric (1; 1.6), leather tanning (1; 3.3), iron and steel mfg (2; 1400.8), nonferrous metals (1; 314.6), organics and plastics (2; 121.5), textile mills (1; 8.3), plastics and synthetics (3; 20.1), rubber processing (1; 712.0), explosives (1; 1.5). The highest effluent concn was 2059 ppb in the iron and steel mfg industry .

DISCLAIMER - Please Read

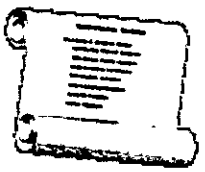
Return to :



Alphabetical List of Compounds



List of Compounds by CAS Number



List of Services



Spectrum Laboratories Homepage

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 4/30/2009 11:45 AM

LABORATORY SERVICES DIVISION

LOCATION: GWO- 78992
LOC ID: G-NEW
SAMPLE DATE-TIME: 4/27/2009 16:00 CHAIN OF CUSTODY #: 090428085444
SAMPLE DESCRIPTION: Grab

Parameter	Result	Units	RL	Method	Start Date/	Time	Analyst
AD08543 Dichlorodifluoromethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Bromomethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Chloroethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Fluorotrichloromethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,1-Dichloroethylene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Dichloromethane (methylene chl	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Trans-1,2-Dichloroethylene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,1-Dichloroethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Chloromethane	0.67	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Vinyl Chloride	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 2,2-Dichloropropane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Cis-1,2-Dichloroethylene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Bromochloromethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Chloroform	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,1,1-Trichloroethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,1-Dichloropropene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Carbon Tetrachloride	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Benzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,2-Dichloroethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Trichloroethylene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,2-Dichloropropane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Dibromomethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Bromodichloromethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Cis-1,3-Dichloropropene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Toluene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Trans-1,3-Dichloropropene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,1,2-Trichloroethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Tetrachloroethylene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,3-Dichloropropane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Chlorodibromomethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,2-Dibromoethane (EDB)*	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Chlorobenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,1,1,2-Tetrachloroethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Ethylbenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 m&p-Xylene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA

CHARLOTTE

Laboratory Analysis Report
Report Date: 4/30/2009 11:45 AM

LABORATORY SERVICES DIVISION

LOCATION: GWO- 78992
LOC ID: G-NEW
SAMPLE DATE-TIME: 4/27/2009 16:00 CHAIN OF CUSTODY #: 090428085444
SAMPLE DESCRIPTION: Grab

Parameter	Result	Units	RL	Method	Start Date/	Time	Analyst
AD08543 o-Xylene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Styrene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Bromoform	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Isopropylbenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,1,2,2-Tetrachloroethane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Bromobenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,2,3-Trichloropropane	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 n-Propylbenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 o-Chlorotoluene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,3,5-Trimethylbenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 p-Chlorotoluene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Tert-Butylbenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,2,4-Trimethylbenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Sec-Butylbenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 m-Dichlorobenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 p-Isopropyltoluene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 p-Dichlorobenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 n-Butylbenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 o-Dichlorobenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,2-Dibromo-3-chloropropane (DCP)*	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,2,4-Trichlorobenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Hexachlorobutadiene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Naphthalene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 1,2,3-Trichlorobenzene	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA
AD08543 Methyl-t-butyl ether (MtBE)	Less than	ppb	0.5	EPA 524.2	4/29/2009	13:59	SDA

CHARLOTTE.

Laboratory Analysis Report
Report Date: 4/30/2009 11:45 AM

LABORATORY SERVICES DIVISION

LOCATION: GWO- 78992
LOC ID: G-NEW
SAMPLE DATE-TIME: 4/27/2009 16:00 CHAIN OF CUSTODY #: 090428085444
SAMPLE DESCRIPTION: Grab

Parameter	Result	Units	RL	Method	Start Date/	Time	Analyst

Comment: 524: The result for chloromethane on the replicate sample was 0.15ppb. The average of these two results is 0.41ppb, which is less than the 0.50ppb reporting limit of the method.

Laboratory Supervisor: Emily C Rybach

CMU-Environmental Laboratory Services N.C. DENR Certification No. 192 N.C.DHHS Certification No. 37417
4222 Westmont Drive, Charlotte, North Carolina, 28217

5130

CHARLOTTE-MECKLENBURG UTILITIES - LABORATORY SERVICES DIVISION

CHAIN OF CUSTODY RECORD

CMU-ESF Laboratory, 4222 Westmont Dr., Charlotte, NC 28217 (704) 336-2854 or (704) 622-7280

PAGE 1 OF 1

CLIENT: MECKLENBURG COUNTY, LUESA - GROUNDWATER AND WASTEWATER SERVICES

FACILITY: [redacted]

LOCATION / ADDRESS: 11610 Idlewild Road

LAB CODE (circle one): REAL PRIV (NEW) TNC MPL PME OTHER

Send Report To: GWS - Dennis Tyndall
700N Tryon St. Ste. 205
Charlotte, NC 28202

COC#: 090428085444

Sampled By (Print Name): Dennis Tyndall

SAMPLE ID	Sample Collector's Initials	Sample Collection: Begin Date and Time	Sample Collection: End Date and Time	Chlorinated System	Sample Temperature: Collection Temp C	Sample Temperature: Receipt Temp C	Sample Type: Depth Composite	Sample Type: Auto Composite	Sample Type: Hand Comp	Sample Type: Grab	Sample Containers: Plastic	Sample Containers: Glass	Sample Containers: # Containers	Chemical Preservative: None	HNO3	H2SO4	NaOH	HCl	Na2S2O3	pH Correct	Analyses Requested: Total Coliform	Nitrate **SEE NOTE**	Nitrite	Nitrate + Nitrite	Fluoride	Hardness	Metals	Fecal Coliform	Fecal Strep	Pest/PCB, EPA 608	Herb, EPA 8151	VOA, EPA 624	Semis, EPA 8270
AD08543																																
GW0-78992	DFT	4/24-01 1200		N	13					X		40 ML	2					(X)													(X)	

NOTES: Complete yellow shaded sections; each "X" needs to be circled.

Itemize requested Metals here:

COMMENTS:

Relinquished By: (Signature)	Received By: (Signature)	Date	Time
[redacted]	Michelle L Henderson	4/28/08	0850
Relinquished By: (Signature)	Received By: (Signature)	Date	Time
Relinquished By: (Signature)	Received By: (Signature)	Date	Time
Relinquished By: (Signature)	Received By: (Signature)	Date	Time

Form Revision 05; effective 03/16/2005

CODES: REAL=REAL ESTATE TRANSACTION PRIV=PRIVATE WELL SAMPLING BY REQUEST OR FOR REPAIR NEW=NEW WELL (PERMIT)

MECKLENBURG COUNTY

Land Use and Environmental Services Agency

April 30, 2009

Nellie & JackVea
11610 Idlewild Road
Matthews, NC 28105

Re: Water Sampling Results
11610 Idlewild Road

Dear Mr. & Mrs. Vea :

On April 27, 2009 the Land Use and Environmental Services Agency sampled your water supply well located at 11610 Idlewild Road. Laboratory results indicate that Chloromethane was present in at a concentration less than:

☒ The State of North Carolina 15A NCAC 2L Groundwater Quality Standard.
☐ The USEPA National Primary Drinking Water Standard

The laboratory results and published drinking water standards are summarized below.

Compound	Detection	USEPA MCL	NC 2L Standard
Chloromethane	0.67 ppb	None Established	2.6 ppb

I will forward a copy of the laboratory results to the State Toxicologist and request a written evaluation concerning the health effects from continued use of the well water containing Chloromethane. A copy of the evaluation will be forwarded to you upon receipt.

A copy of the laboratory results is enclosed for your review. If you have any questions concerning these results or the program please call me at (704) 336-5454.

Sincerely,

Dennis F. Tyndall, P.G.
Hydrogeologist
Groundwater & Wastewater Services

Enclosure: Laboratory Report

MECKLENBURG COUNTY
Land Use and Environmental Services Agency

April 30, 2009

Dr. Ken Rudo
Environmental Epidemiological Branch
Division of Health Services
Post Office Box 29601
Raleigh, North Carolina 27626

Re: Well Water Sampling Results
11610 Idlewild Road

Dear Dr. Rudo:

Enclosed is a copy of the laboratory analysis for a well water sample collected from a private water supply well located at 11610 Idlewild Road in Mecklenburg County.

Mecklenburg County Land Use and Environmental Services requests that your office provide a written evaluation concerning the potential health effects from continued use of this well water. I will forward this information to the owner of the water system.

If you have any questions concerning these results or the program please contact me at (704) 336-5454.

Sincerely,

Dennis F. Tyndall, P.G.
Hydrogeologist
Groundwater & Wastewater Services

Enclosure: Laboratory Analysis

WO# 78992
File 5130

MECKLENBURG COUNTY

Land Use and Environmental Services Agency
Water & Land Resources

May 26, 2009

Nellie & Jack Vea
11610 Idlewild Road
Matthews, NC 28105

RE: Water Sampling Results
11610 Idlewild Road

Dear Mr. & Mrs. Vea:

Mecklenburg County Land Use and Environmental Services provided you with information concerning the laboratory analysis of a water sample collected from your drinking water well located at 11610 Idlewild Road. A copy of the analysis was sent to the State Toxicologist to obtain information concerning the health effects from continued use of this water. Please find attached a copy of the Toxicologist's report. The report states: "The concentrations found in your well water do not exceed the recommended EPA levels/North Carolina 2L Groundwater Standards. Therefore, your water could be used for drinking, cooking, washing dishes, bathing, and showering."

If you have any health concerns about the contamination present in your water, please contact the State Toxicologist, Dr. Kenneth Rudo of the North Carolina Department of Environment and Natural Resources at (919) 707-5911, or your personal physician.

Please call me at (704) 336-5454 if you have any questions.

Sincerely,

Dennis F. Tyndall, P.G.
Hydrogeologist
Groundwater Program

Enclosure: Toxicologist Report

Information and Recommendations for Uses of Private Well Water For Organic Chemicals Found in Water

North Carolina Occupational and Environmental Epidemiology Branch (OEEB)
For Additional Information call 919-707-5900

Name: 11610 Idlewild Rd. **County :** Mecklenburg

Sample Identification Number: [redacted] GW0-18992

Information on Your Private Well Water

Your well water was laboratory tested for chemical contaminants. Drinking water may contain chemical contaminants which can occur naturally or be introduced into water from man-made sources. The chemicals found in your well were introduced from man-made sources. In order to evaluate your laboratory results for chemical contaminants, your water results were compared to the national primary drinking water standards or maximum contaminant levels (MCLs) (see website for basis for each MCL at http://www.epa.gov/safewater/contaminants/index.html#mcls). MCLs are national drinking water standards that are required to be met by municipal water supplies. If an MCL was not available, your water results were compared to the North Carolina 2L Groundwater Standards.

Recommendations for Uses of Your Private Well Water

✓ The concentrations found in your well water do not exceed the recommended EPA levels/North Carolina 2L Groundwater Standards. Therefore, your water could be used for drinking, cooking, washing dishes, bathing, and showering.

____ Contaminant concentrations found in your well water are higher than the EPA recommended levels for drinking and cooking. These contaminants include _____

Your well water should not be used for drinking or cooking. If you have been drinking the well water and are pregnant, nursing, or have a child under 5 years of age, inform your physician of the results.

____ **Because of the low levels, some absorption of these chemicals is expected through intact skin and exposure to water vapor. Therefore, limit showering and bathing time to less than 10 minutes.**

____ **Because of the high levels, absorption of these chemicals could occur through intact skin and exposure to water vapor. Therefore, limit showering and bathing time to less than 5 minutes.**

____ **Because of the very high levels, significant absorption of these chemicals could occur through intact skin and exposure to water vapor. Therefore, this water should not be used for showering and bathing.**

____ You may want to purch[illegible] the groundwater contan[illegible] located from [illegible]ly.

____ Resampling is recomme[illegible]

Post-it® Fax Note 7671	Date 5/14/09	# of pages ▶ 1
To Dennis Tyndall	From Dr. Ken Rudo	
Co./Dept. Mack. C. LUESA	Co. NC DHHS	
Phone #	Phone # 919 707 5911	
Fax # 704 336 4391	Fax #	

Other Comments

_____