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# WELLHEAD PROTECTION PLAN

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Iredell County, North Carolina  
PWS ID # 01-49-025

January 2007  
Revised June 2016



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June 15, 2016

Mr. Gale Johnson, P.G.  
Public Water Supply Section  
1634 Mail Service Center  
Raleigh, NC 27699-1634

Dear Mr. Johnson:

Please find attached a copy of the updated Wellhead Protection Plan for Iredell Water Corporation, PWS ID 01-49-025. Also included is evidence of public notice, published in *The Statesville Record & Landmark*, as required for plan approval. The Wellhead Protection Committee has reviewed and accepted this version of the plan. The Corporation's management team and certified treatment operators, will be responsible for implementing the plan, and will seek assistance from NC Rural Water Association as required.

Sincerely,

*Keith A Snoddy*

Keith A. Snoddy  
General Manager

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## BACKGROUND

In 1986, Safe Water Drinking Act (SWDA) amendments added Section 1428, "State Programs to Establish Wellhead Protection Areas", which requires each state to develop a program to "protect wellhead areas within their jurisdiction from contaminants which may have any adverse effects on the health of persons." The term wellhead protection area is defined in the law as "the surface and subsurface area surrounding a water well or well field, supplying a public water system, through which contaminants are reasonably likely to move toward and reach such water well or well field." North Carolina's Environmental Protection Agency (EPA) approved Wellhead Protection Program (WHPP) provides technical support to local governments and public water supply systems in their endeavors to develop and implement their own Wellhead Protection Plans.

North Carolina's objective in developing a protection plan is to provide a process for public water system operators to learn more about their groundwater systems and how to protect them. Wellhead Protection Plans allow communities to take charge of protecting the quality of their drinking water by identifying and carefully managing areas that supply groundwater to their public wells.

Regulations of the **Division of Water Resources (DWR), under the Department of Environmental Quality** require wellhead protection measures for any public water supply wells to be used as a community or non-transient, non-community water system to meet the following requirements:

1. The well shall be located on a lot so that the area within 100 feet of the well shall be owned or controlled by the person supplying the water. The supplier of water shall be able to protect the well lot from potential sources of pollution and to construct landscape features for drainage and diversion of pollution.
2. The minimum horizontal separation between the well and known potential sources of pollution shall be as follows:
  - (a) 100 feet from any sanitary sewage disposal system, sewer, or a sewer pipe unless the sewer is constructed of water main materials and joints, in which case the sewer pipe shall be at least 50 feet from the well;
  - (b) 200 feet from a subsurface sanitary sewage treatment and disposal system designed for 3000 or more gallons of wastewater a day flows, unless it is determined that the well water source utilizes a confined aquifer;
  - (c) 500 feet from a septage disposal site;
  - (d) 100 feet from buildings, mobile homes, permanent structures, animal houses or lots, or cultivated areas to which chemicals are applied;
  - (e) 100 feet from surface water;
  - (f) 100 feet from a chemical or petroleum fuel underground storage tank with secondary containment;

- (g) 500 feet from a chemical or petroleum fuel underground storage tank without secondary containment;
  - (h) 500 feet from the boundary of a ground water contamination area;
  - (i) 500 feet from a sanitary landfill or non-permitted non-hazardous solid waste disposal site;
  - (j) 1000 feet from a hazardous waste disposal site or in any location which conflicts with the North Carolina Hazardous Waste Management Rules cited as 15A NCAC 13A;
  - (k) 300 feet from a cemetery or burial ground; and 100 feet from any other potential source of pollution.
1. The Department may require greater separation distances or impose other protective measures then necessary to protect the well from pollution; the Department shall consider as follows:
    - (a) The hazard or health risk associated with the source of pollution;
    - (b) The proximity of the potential source to the well;
    - (c) The type of material, facility or circumstance that poses the source or potential source of pollution;
    - (d) The volume or size of the source or potential source of pollution;
    - (e) Hydrogeological features of the site which could affect the movement of contaminants to the source water;
    - (f) The effect which well operation might have on the movement of contamination;
    - (g) The feasibility of providing additional separation distances or protective measures.
  2. The lot shall be graded or sloped so that surface water is diverted away from the wellhead. The lot shall not be subject to flooding.
  3. When the supplier of water is unable to locate water from any other approved source and when an existing well can no longer provide water that meets the requirement of this Subchapter, a representative of the Division may approve a smaller well lot and reduced separation distances for temporary use.

**In addition, communities are encouraged to establish wellhead protection plans, which include the following:**

1. The formation of a wellhead protection committee to establish and implement the wellhead protection program whose role it is to conduct a potential contaminant source inventory, provide options for the management of the WHP area, seek public input into the creation of the WHP plan, seek approval of the WHP program and to implement the WHP program;
2. Delineation of the contributing areas of the water sources;

3. Identification of potential contamination sources within the wellhead protection area;
4. Develop and implement wellhead protection area management actions to protect the water sources;
5. Develop an emergency contingency plan for alternative water supply sources in the event the groundwater supply becomes contaminated and emergency response planning for incidents that may impact water quality;
6. Development of a public education program;
7. Conduct new water source planning to insure the protection of new water source locations and to augment current supplies.

Wellhead protection for public water supply wells is a voluntary program, but water systems across the state are encouraged to take the above steps in protecting all groundwater sources.

The Public Water Supply Section (PWSS) provides the final approval for WHP Programs. The NC Wellhead Protection Program Coordinator is:

M. Gale Johnson, L.G.  
Public Water Supply Section  
1634 Mail Service Center  
Raleigh, North Carolina 27699-1634  
Phone: 919-707-9083  
Fax: 919-715-4374

## INTRODUCTION

Iredell Water Corporation (PWSID # 01-49-025) is located near Statesville within the central region of Iredell County. It is a membership owned non-profit utility which provides public drinking water to the community in mainly Northern Iredell County. Iredell Water Corporation (IWC) has served Iredell County residents since 1967. Iredell County was formed from Rowan County in 1788. Iredell County has diversified industry and urbanization in the southern part and is more rural in the northern part. Parts of the county are experiencing rapid suburbanization and population growth due to the immense popularity of Lake Norman, the nation's largest manmade lake by surface, and nearby Charlotte. Agriculture, especially dairy farming, is a major source of income in Iredell County; however, the number of poultry operations is increasing. Major crops include hay, nursery crops, and corn. Iredell County is also an important transportation center for the State; Interstate 77 runs north and south through the county and Interstate 40 runs east and west.

Iredell Water Corporation's service area is mainly the northern half of Iredell County from south of Statesville to north of Union Grove and from the county lines of Davie & Rowan in eastern Iredell County to Hwy 90 in western Iredell County. The service area extends into 11 of the 16 townships in Iredell County. The corporation provides water to a population of approximately 22,100 individuals.

The corporation obtains its water from thirty-three (33) wells whose depths range from 142 feet to 985 feet. Wells found within the Asheville basin have an average recharge rate of 400,000 gpd/mi<sup>2</sup> and wells within the Blue Ridge basin have an average recharge rate of 600,000 gpd/mi<sup>2</sup>. The corporation has eight elevated tanks and one ground storage tank with a combined storage capacity of 2,150,000 gallons. The average daily use is presently 1,720,000 gallons. Water treatment consists of Sodium Hypochlorite for microbial disinfection, Waterworx for sequestration of iron and manganese and Sodium Hydroxide for pH adjustment. Polyphosphate and Orthophosphate are used at certain locations for corrosion control.

*The 1985 Geologic Map of North Carolina* shows that the Iredell Water Corporation's water system spans over multiple formations as described below:

Well Sites	Geocode	Formation	Description
1, 12, 14, 18, 21, 25, 31, 33, 35, 36, 37	CZab	Amphibolite and biotite gneiss	Interlayered; minor layers and lenses of hornblende gneiss, metagabbro, mica schist, and granite rock.
2, 4, 5, 6, 10, 11, 13, 16, 19, 20, 23, 26, 27, 28, 29, 30, 32, 34, 38, 39	CZbg	Biotite gneiss and schist	Inequigranular, locally abundant potassic feldspar and garnet; interlayered and gradational with calc-sillimanite-mica schist, and amphibolite. Contains small masses of granitic rock.
14, 15, 22	CZms	Mica schist	Garnet, staurolite, kyanite, or sillimanite occur locally; lenses and layers of quartz schist, micaceous quartzite, calc-silicate rock, biotite gneiss, amphibolite, and phyllite.

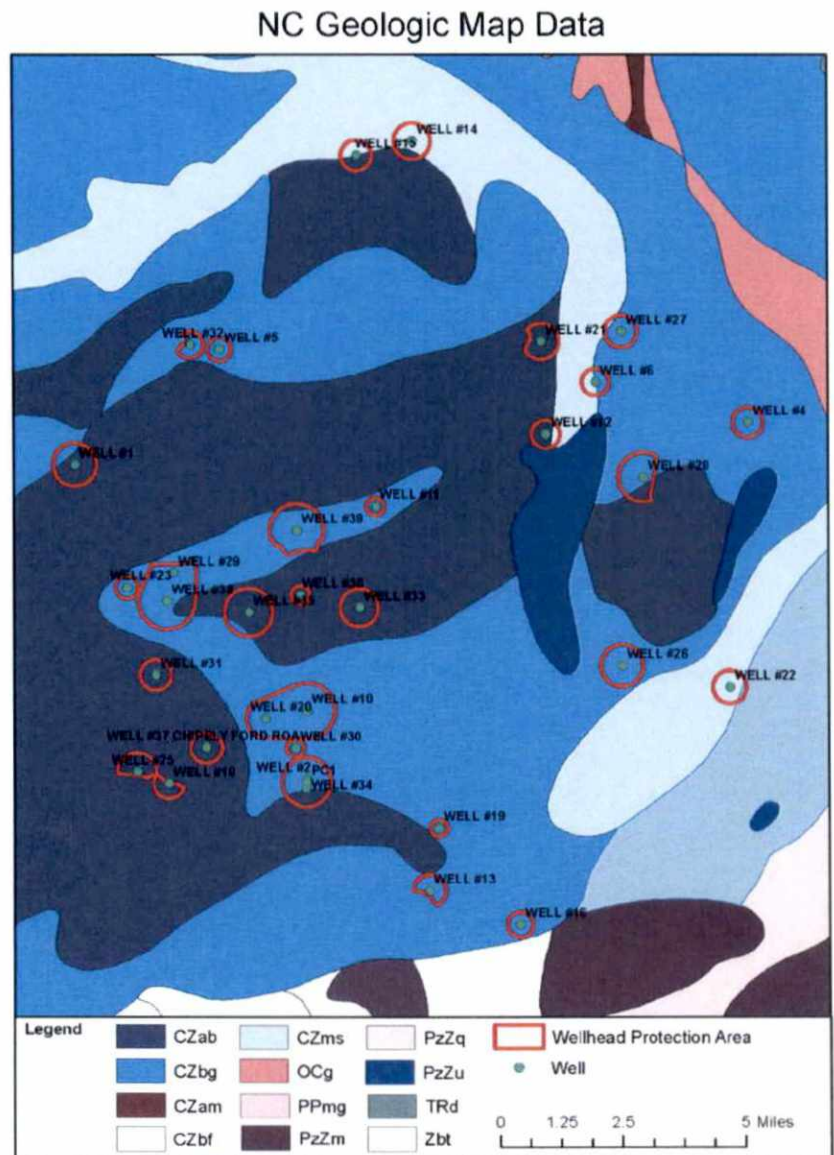


The following map shows each well site in relation to its geographic location.

Iredell Water Corporation wells are recharged from aquifers of the Piedmont and Blue Ridge Provinces which extend across the western 60 percent of the State and are, for the most part, underlain by fractured, igneous and metamorphic rock. Aquifers of the Piedmont and Mountains are localized, complex fractured metamorphic, igneous, and sedimentary rocks. The rocks are covered almost everywhere by regolith, which includes soil, saprolite, alluvium, and colluvium. Most of the groundwater is stored in the shallow, porous regolith. While the crystalline bedrock has extremely low porosity, secondary fractures contain groundwater recharged by the overlying regolith.

The county is dominated by ridges separated by creeks in the valleys. The Brushy Mountains intrude into the northwest corner and include Fox Mountain, with the county's highest elevation of 1,760 feet. The lowest point is 700 feet above sea level, where the South Yadkin River crosses the county line and flows eastward along the Davie-Rowan border. At the old courthouse (Iredell County Government Center) is the center of Statesville, where the elevation is 926 feet.

The soil is loamy, a mixture of sand and clay and varies in its proportions from one section of the county to another, depending on the indigenous mineral structure. To be agriculturally productive, the Iredell soil must be chemically supplemented. The county is, however, naturally well drained and watered by the venation of its numerous creeks.

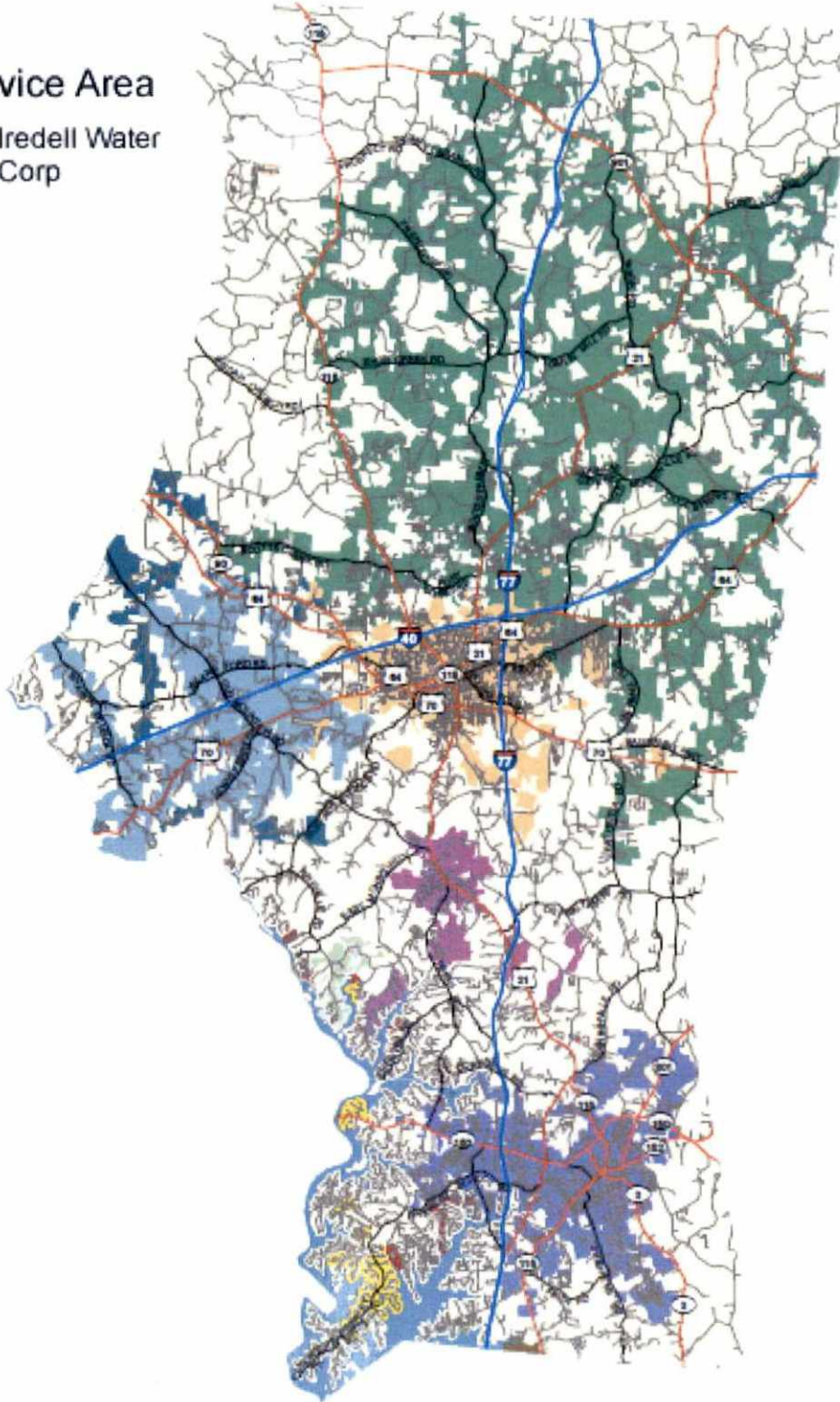


**Map 1. Geologic NC Map Data**

# Iredell Water Service Area

## Service Area

 Iredell Water Corp



Map 2. Iredell County Serviced Areas

## **THE WELLHEAD PROTECTION COMMITTEE**

A Wellhead Protection Committee (WPC) was formed to develop a Wellhead Protection Plan for the Iredell Water Corporation. The committee consists of:

- Mr. Keith Snoddy, Iredell Water Corporation Manager and ORC
- Mr. Danny Sloan, Iredell Water Corporation Assistant Manager and ORC
- Mr. Curtis Meyer, Iredell Water Corporation Assistant Manager and ORC
- Mrs. Alicia Melton, North Carolina Rural Water Association

The positions responsible for implementing the program are the Iredell Water Corporation Board of Directors. They have accepted the recommendations made in the program by the WPC and the Board has granted the Manager, Keith Snoddy, and Assistant Manager/ORC, Danny Sloan, the authority to implement the plan and to approve any revisions that may be necessary to obtain approval from the Public Water Supply Section (PWSS). The Iredell Water Corporation will begin implementation of the plan immediately following its approval by the PWSS of the North Carolina Department of Environmental Quality (DEQ) and will complete implementation within ninety (90) days.

### **Goals and Commitments**

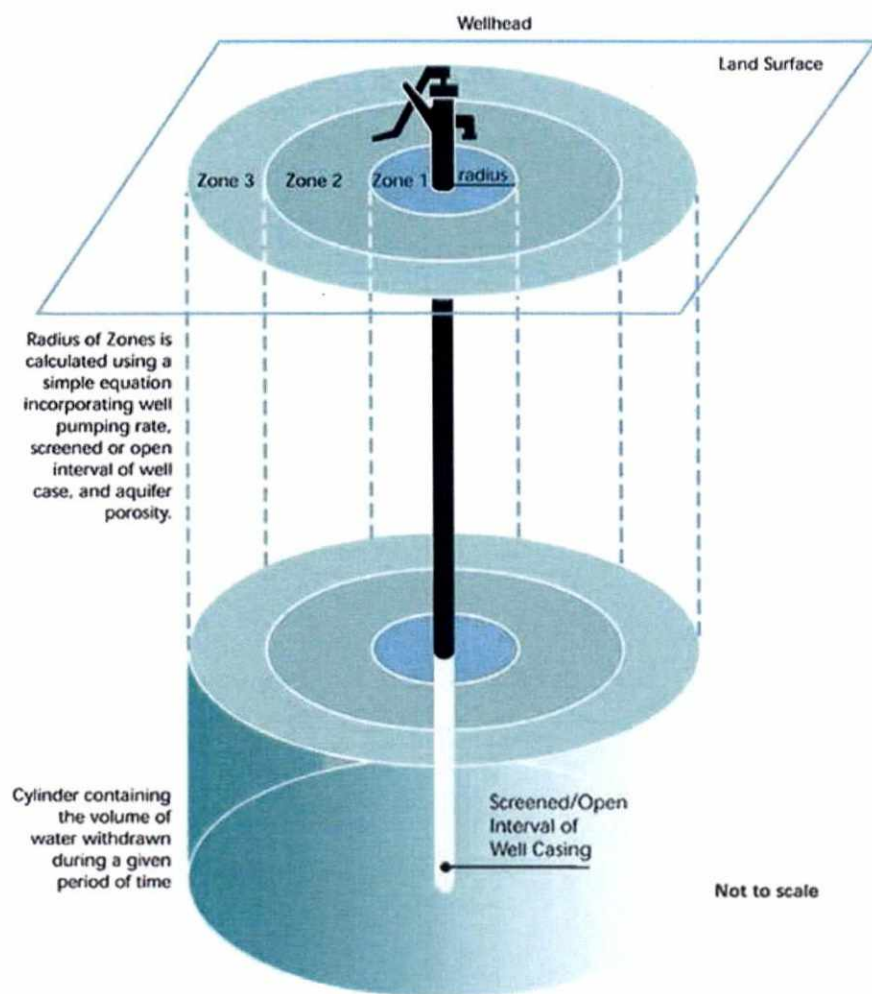
At Iredell Water Corporation, the constant goal is to provide customers with a safe and dependable supply of drinking water. A safe, reliable water supply is critical to the success of any community. Iredell Water Corporation is committed to ensuring the quality of its drinking water and to providing its customers with information about water quality and the protection of its resources. Long-term goals and visions established by the WPC include:

- ◆ Adequate supply of drinking water
- ◆ Thorough survey of potential contamination sources
- ◆ Public education
- ◆ Review and update of the WHP plan on a regular basis

## **DELINEATION OF THE WELLHEAD PROTECTION AREA**

Delineation of the Wellhead Protection Areas involves making an inventory of all Public Water Supply (PWS) wells included under the plan and gathering basic information about each well. The most important part of this step is to identify the area that must be managed to reduce the likelihood of contamination to the wells — the Wellhead Protection Area (WHPAs). Simply stated, the WHPA is the part of the landscape — above or below ground — which contributes water that will eventually reach the pumping well. If a contaminant reaches groundwater within the well system's contribution area, the contaminant can move with the groundwater into the well. If the contributing area for the well is identified and management strategies are set in place to manage certain activities, the possibility that the

well might become contaminated can be significantly reduced. This is the area where the wellhead protection (WHP) plan will apply.



The Calculated Fixed Radius Method was used to delineate the Wellhead Protection Areas (WHPAs). This delineation method resulted in a circular protection area around each well site. Yield values used for the delineation of the WHPAs were taken from the Safe Drinking Water Information System (SDWIS) database and differ in some cases from the yields shown on well construction records. Where multiple WHPAs overlap slightly, the boundary was smoothed by removing the scalloped areas between the overlapping areas. Specifically, well sites 2 and 34 overlapped significantly, therefore

a point was chosen between the two sites as a pumping center, located closer to the well with the larger yield, and the WHPA was delineated around the point using the combined yield of the two wells. Some WHPAs were cropped where they intersected a significant stream.

To calculate the area of the proposed WHPA, first calculate the contributing area by simply dividing maximum permitted daily withdrawal by recharge rate. Iredell Water Corporation's wells are pumping water from surficial aquifers found in the Asheville basin with average recharge rates of 400,000 gpd/mi<sup>2</sup> and from the Blue Ridge basin with average recharge rates of 600,000 gpd/mi<sup>2</sup>:

$$A = \frac{Q}{W}$$

Equation 1 where:

A=contributing area, square miles

Q=maximum permitted daily withdrawal, gallons per day

W=average recharge rate, gallons per day per square mile

To account for directional differences in certain aquifer parameters the contributing area calculated by equation 1 is doubled to define the WHPA. The radius around the well for the WHPA is obtained by:

$$r = 4213 \sqrt{\frac{Q}{W}}$$

Equation 2 where:

R=radius from well of WHPA, feet

Q=maximum permitted daily withdrawal, gallons per day

W=average recharge rate, gallons per day per square mile

4213=factor for converting area in square miles to radius in feet; includes doubling of the contributing area

The maximum permitted daily withdrawal is determined from information on well yield and an assumed daily period of well operation (in minutes per day). The well yield is the maximum sustained pumping rate possible for the well and is determined from a 24-hour pumping test required by state regulations for all PWS wells. The well yield (in gallons per minute) is multiplied by 720 (the number of minutes in 12 hours) to determine the maximum permitted daily withdrawal. A value of 720 is used because state regulations require that public supply wells provide the system's average daily demand in 12 hours pumping time. Table 1 shows the wellhead protection area calculations. Table 2 shows data specific to each well site including depth and specific location. Following the charts are wellhead protection area maps provided by NC DEQ.

**Table 1. Delineation Data**

Well	Yield ( $Q_{mpw}$ )		Area (mi <sup>2</sup> )	Area (ft <sup>2</sup> )	2* Area (mi <sup>2</sup> )	2* Area (ft <sup>2</sup> )	Radius	
	Gal/min	Gal/day					Miles	Feet
W01	255	183,600	0.306	8530790.4	0.612	17061580.8	0.44	2,330
W02	220	158,400	0.264	7359897.6	0.528	14719795.2	0.41	2,165
W04	127	91,440	0.152	4248668.2	0.305	8497336.3	0.31	1,645
W05	74	53,280	0.089	2475601.9	0.178	4951203.8	0.24	1,255
W06	100	72,000	0.120	3345408.0	0.240	6690816.0	0.28	1,459
W10	420	302,400	0.504	14050713.6	1.008	28101427.2	0.57	2,991
W11	42	30,240	0.050	1405071.4	0.101	2810142.7	0.18	946
W12	110	79,200	0.132	3679948.8	0.264	7359897.6	0.29	1,531
W13	140	100,800	0.168	4683571.2	0.336	9367142.4	0.33	1,727
W14	180	129,600	0.216	6021734.4	0.432	12043468.8	0.37	1,958
W15	126	90,720	0.151	4215214.1	0.302	8430428.2	0.31	1,638
W16	60	43,200	0.108	3010867.2	0.216	6021734.4	0.26	1,384
W18	126	90,720	0.151	4215214.1	0.302	8430428.2	0.31	1,638
W19	39	28,080	0.047	1304709.1	0.094	2609418.2	0.17	911
W20	200	144,000	0.240	6690816.0	0.480	13381632.0	0.39	2,064
W21	175	126,000	0.210	5854464.0	0.420	11708928.0	0.37	1,931
W22	100	72,000	0.180	5018112.0	0.360	10036224.0	0.34	1,787
W23	70	50,400	0.084	2341785.6	0.168	4683571.2	0.23	1,221
W25	205	147,600	0.246	6858086.4	0.492	13716172.8	0.40	2,089
W26	240	172,800	0.288	8028979.2	0.576	16057958.4	0.43	2,261
W27	145	104,400	0.174	4850841.6	0.348	9701683.2	0.33	1,757
W28	330	237,600	0.396	11039846.4	0.792	22079692.8	0.50	2,651
W29	290	208,800	0.348	9701683.2	0.696	19403366.4	0.47	2,485
W30	40	28,800	0.048	1338163.2	0.096	2676326.4	0.17	923
W31	130	93,600	0.156	4349030.4	0.312	8698060.8	0.32	1,664
W32	100	72,000	0.120	3345408.0	0.240	6690816.0	0.28	1,459
W33	195	140,400	0.234	6523545.6	0.468	13047091.2	0.39	2,038
W34	105	75,600	0.126	3512678.4	0.252	7025356.8	0.28	1,495
W35	320	230,400	0.384	10705305.6	0.768	21410611.2	0.49	2,611
W36	45	32,400	0.054	1505433.6	0.108	3010867.2	0.19	979
W37	135	97,200	0.162	4516300.8	0.324	9032601.6	0.32	1,696
W38	435	313,200	0.522	14552524.8	1.044	29105049.6	0.58	3,044
W39	400	288,000	0.480	13381632.0	0.960	26763264.0	0.55	2,919
Pumping Center (PC) W02+W34	325	234,000	0.390	10872576.0	0.780	21745152.0	0.50	2,631

(Where multiple WHPAs overlap slightly, the boundary was smoothed by removing the scalloped areas between the overlapping areas. Specifically, well sites 2 and 34 overlapped significantly, therefore a point was chosen between the two sites as a pumping center, located closer to the well with the larger yield, and the WHPA was delineated around the point using the combined yield of the two wells. Some WHPAs were cropped where they intersected a significant stream.)

**Table 2. Well Data**

Well	Location	Depth	Well Diameter	Casing Depth	Latitude	Longitude
W01	114 Deep Water Dr.	460	6	81	35.913728	-80.958970
W02	129 James Farm Rd.	605	8	88	35.822100	-80.873367
W04	209 Guilford Rd.	605	8	52	35.929834	-80.715165
W05	531 Bess Rd.	825	8	133	35.948569	-80.907442
W06	176 Alexander Farm Rd.	307	6	40	35.940993	-80.770787
W10	482 Nixon Rd.	245	8	31	35.842295	-80.873610
W11	199 Mitchell Farm Rd.	905	8	52	35.903000	-80.850100
W12	2730 Harmony Hwy.	305	6	85	35.925347	-80.788593
W13	351 S. Greenbriar Rd.	305	8	50	35.789723	-80.827946
W14	1470 W. Memorial Hwy.	345	8	86	36.011145	-80.838706
W15	430 Basset Rd.	315	6	111	36.006690	-80.858891
W16	612 Bell Farm Rd.	190	6	40	35.780171	-80.795153
W18	2122 Old Wilkesboro Rd.	142	6	37	35.819972	-80.923213
W19	520 N. Greenbriar Rd.	505	6	85	35.808354	-80.825205
W20	426 Cooper Farm Rd.	805	8	53	35.839763	-80.888525
W21	351 Tomlin Rd.	905	8	70	35.952646	-80.790764
W22	176 Harper Dr.	405	6	108	35.851504	-80.720303
W23	152 Culpepper Dr.	545	6	83	35.877749	-80.939494
W25	363 Miller Farm Rd.	425	8	47	35.823126	-80.934692
W26	178 Coolwood Dr.	405	8	52	35.857535	-80.759510
W27	158 Pepper Tree Dr.	565	8	60	35.956100	-80.761700
W28	260 Rimrock Rd.	305	8	52	35.913061	-80.752907
W29	131 Beaverwood Ln.	385	8	64	35.882200	-80.922700
W30	121 Fairgate Dr.	725	8	57	35.831200	-80.877600
W31	183 Foy Ln	565	8	53	35.852011	-80.928589
W32	781 N. Chipley Ford Rd.	725	8	94	35.949763	-80.918301
W33	134 Rydel Ln.	825	8	70	35.873054	-80.855343
W34	296 Turnersburg Hwy.	825	8	71	35.819297	-80.873530
W35	345 Bluegill Ln.	485	8	70	35.870982	-80.895377
W36	114 Ladybug Ct.	985	8	52	35.876466	-80.876633
W37	2273 S. Chipley Ford Rd.	645	8	164	35.830817	-80.909840
W38	155 Westwinds Lp.	547	8	68	35.878380	-80.924900
W39	1009 Jennings Rd.	750	8	64	35.895462	-80.878410

**Table 1 & 2. Well and delineation Information**

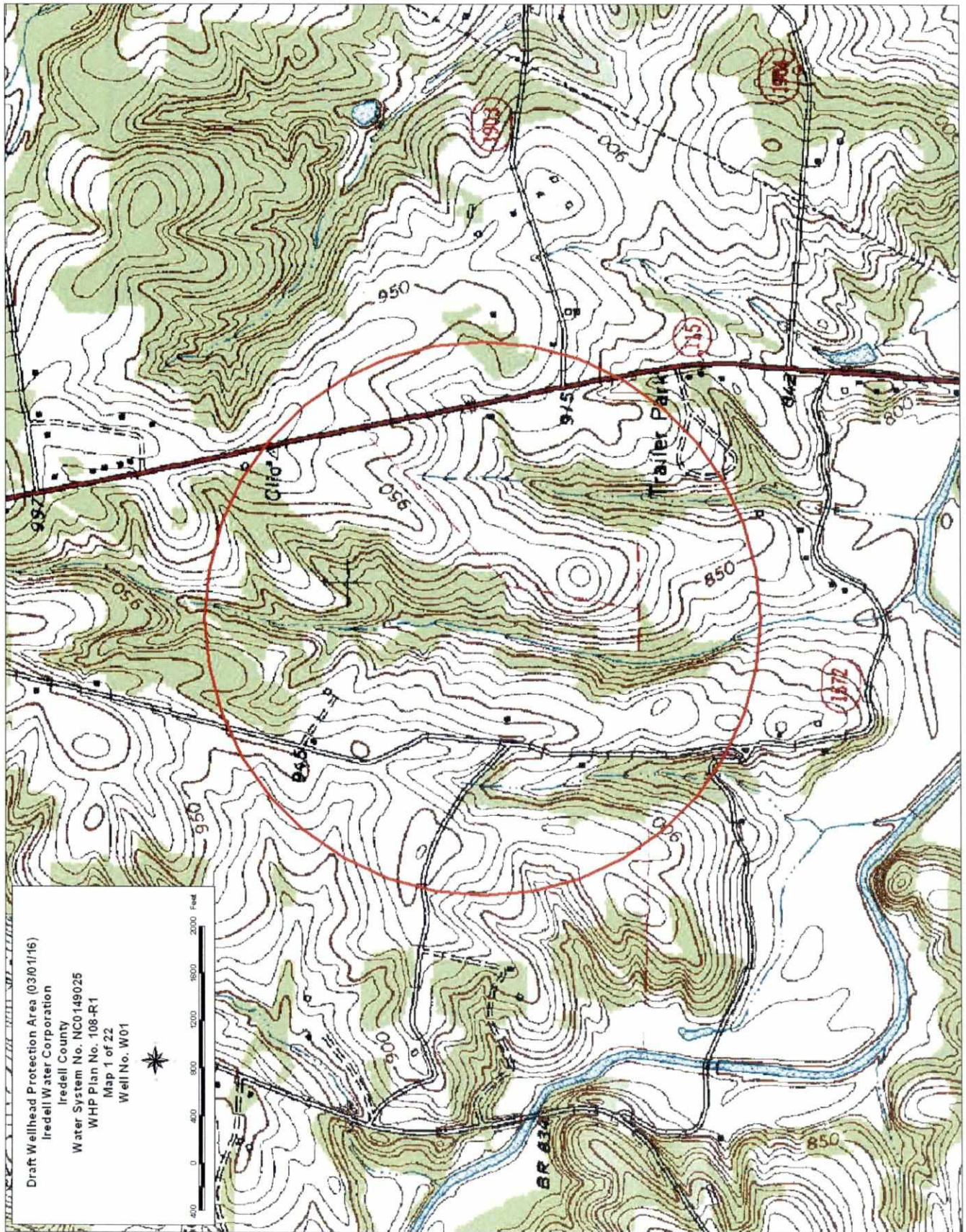
\*Coordinates were provided by the PWSS of DEQ to be consistent with the delineation shapefile records.

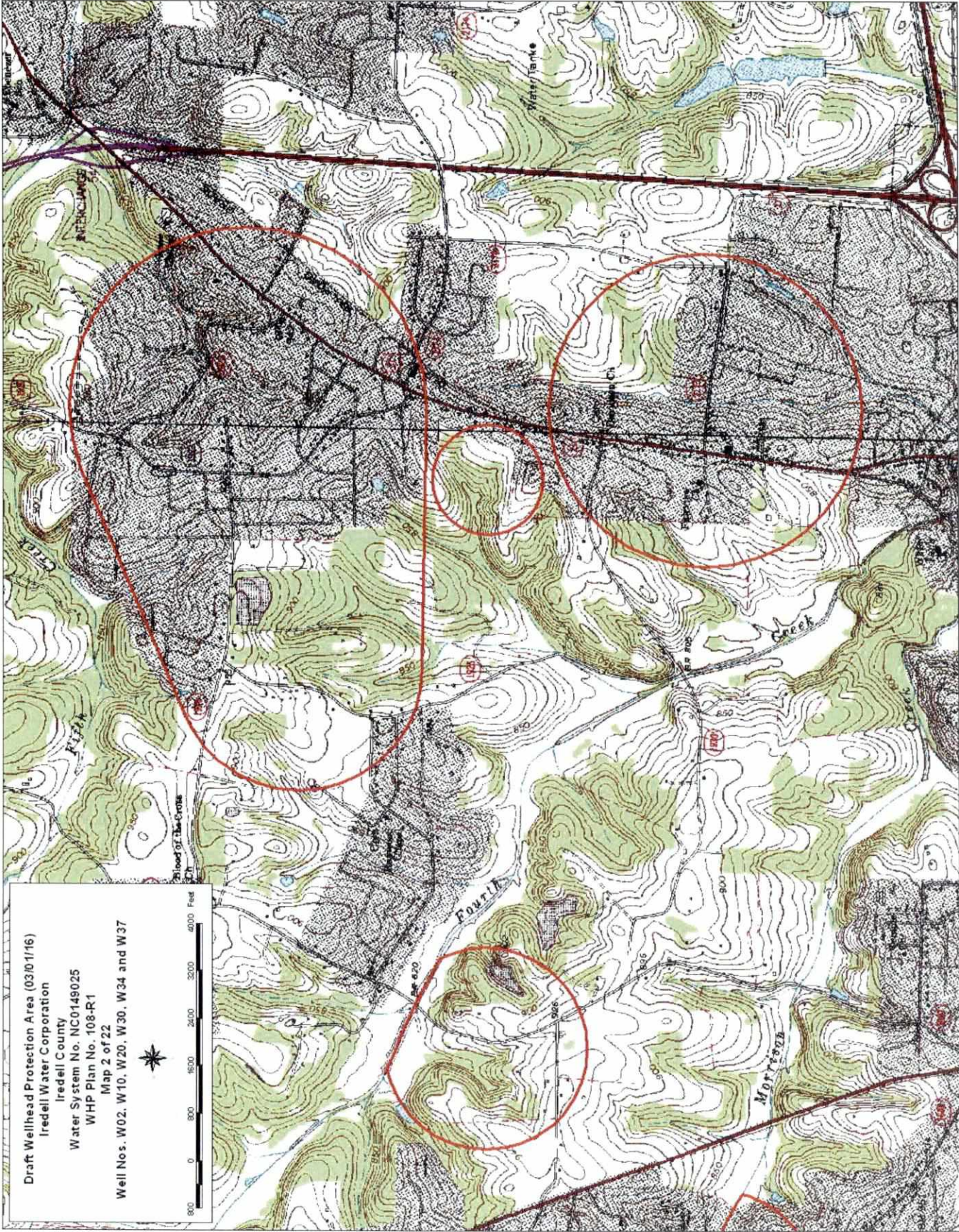
\*\*Copies of Well Construction Records are included in the Appendix (these documents include information on intermittent screened intervals when relevant, well locations, well depths and latitudes and longitudes).

\*\*\*Well #21 was redrilled in July of 2015, has not yet been pump tested, and is currently offline. No well construction records were available or could be located for wells 16 or 18 as these were purchased from private sources

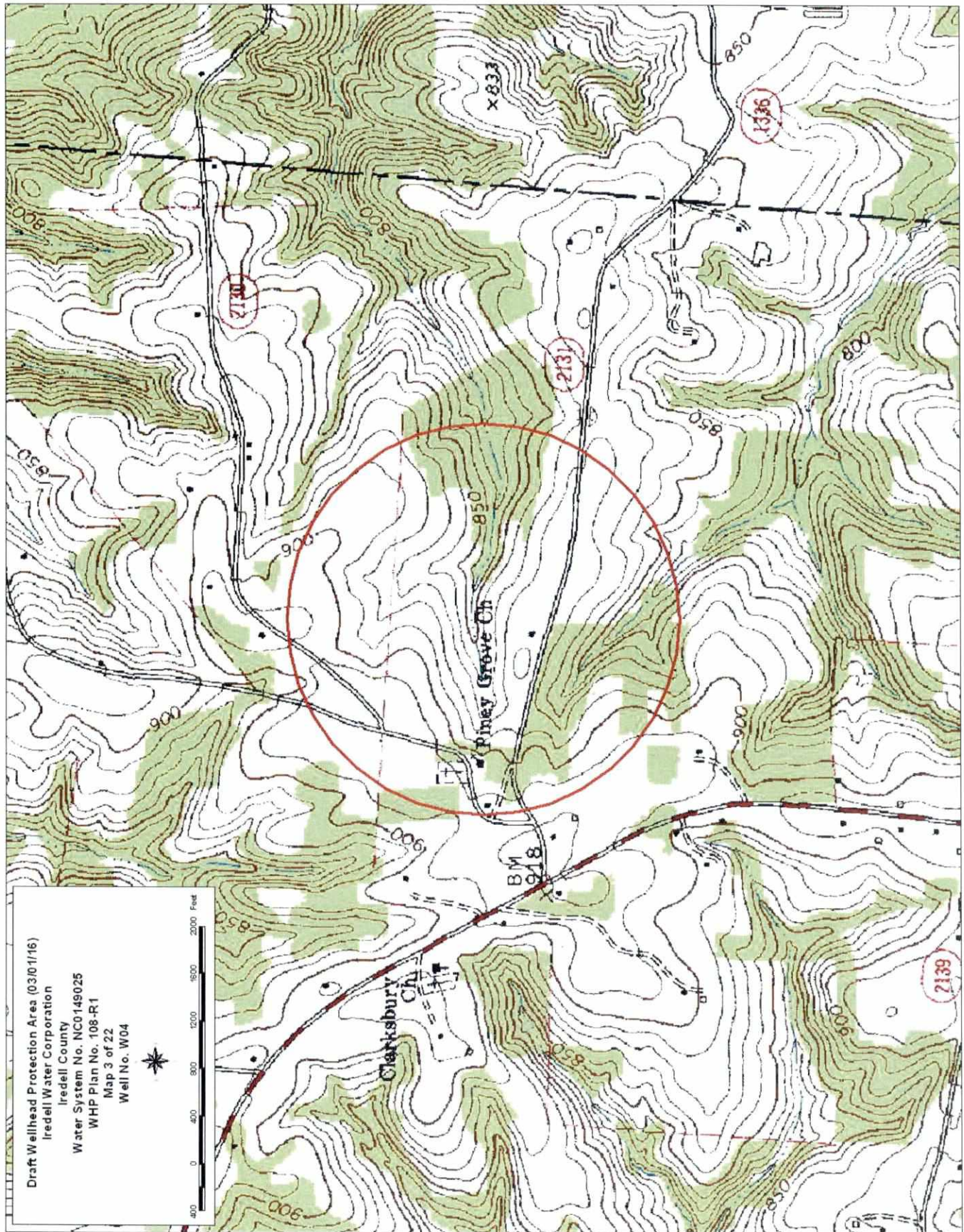
## **Wellhead Protection Area Maps**



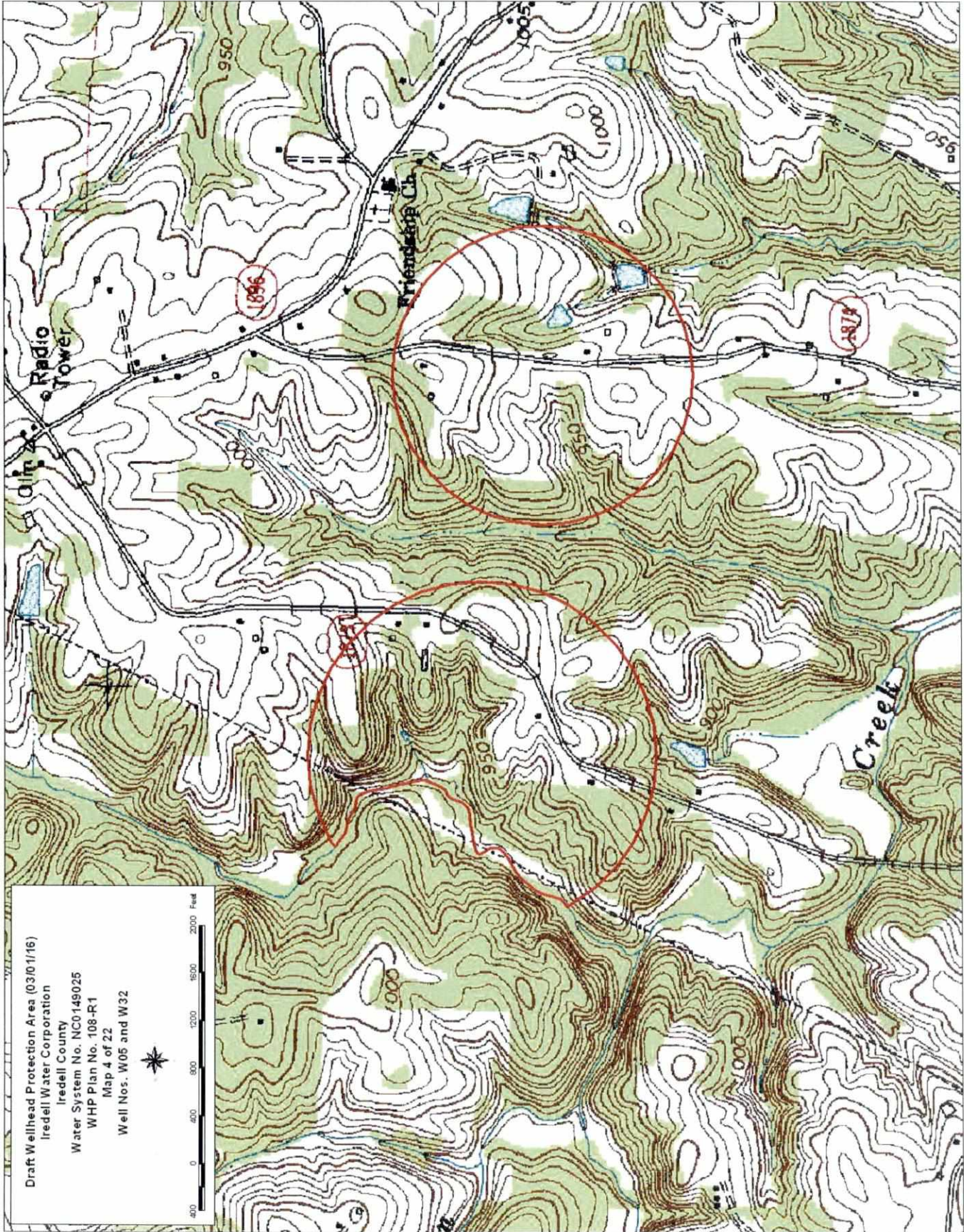


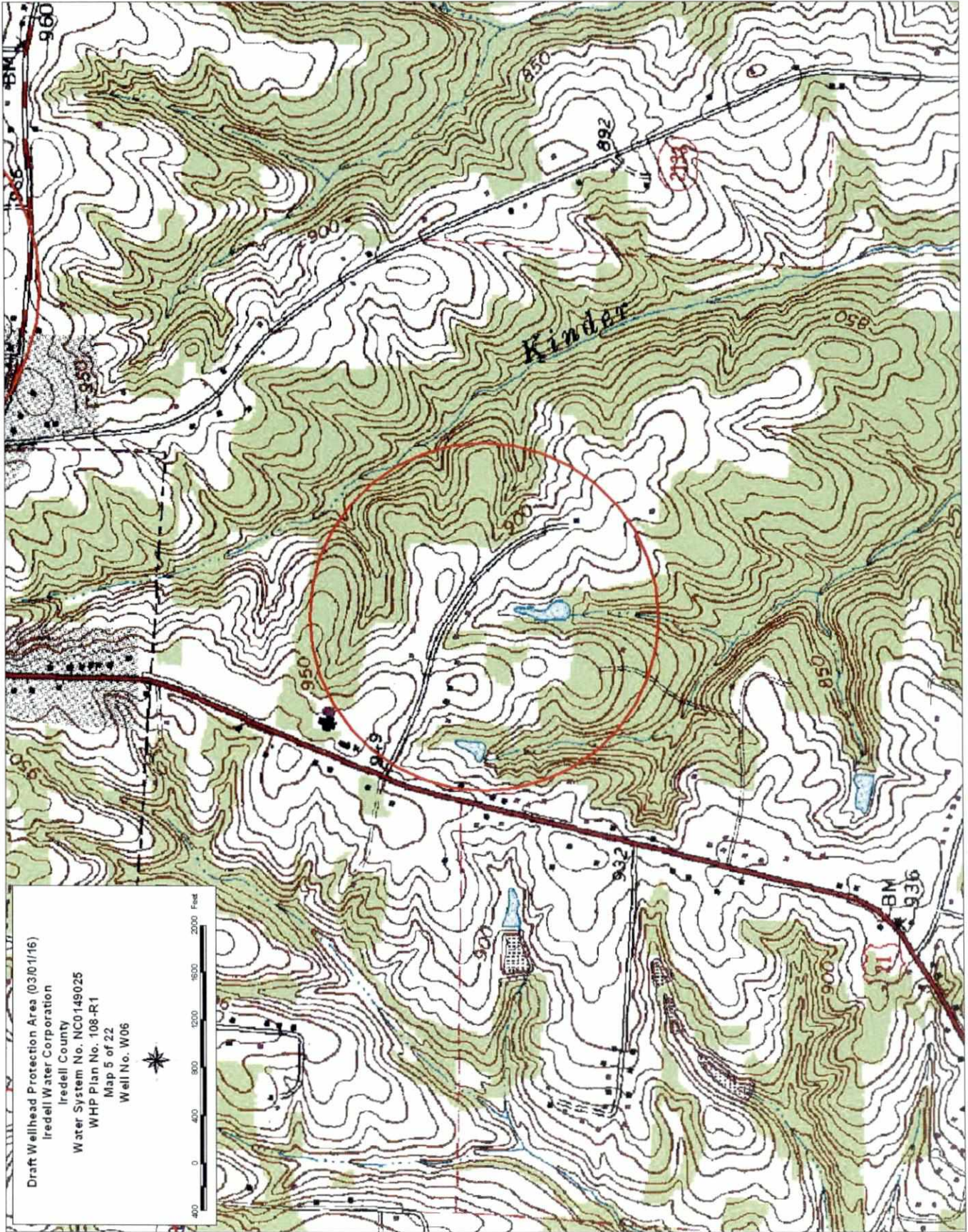


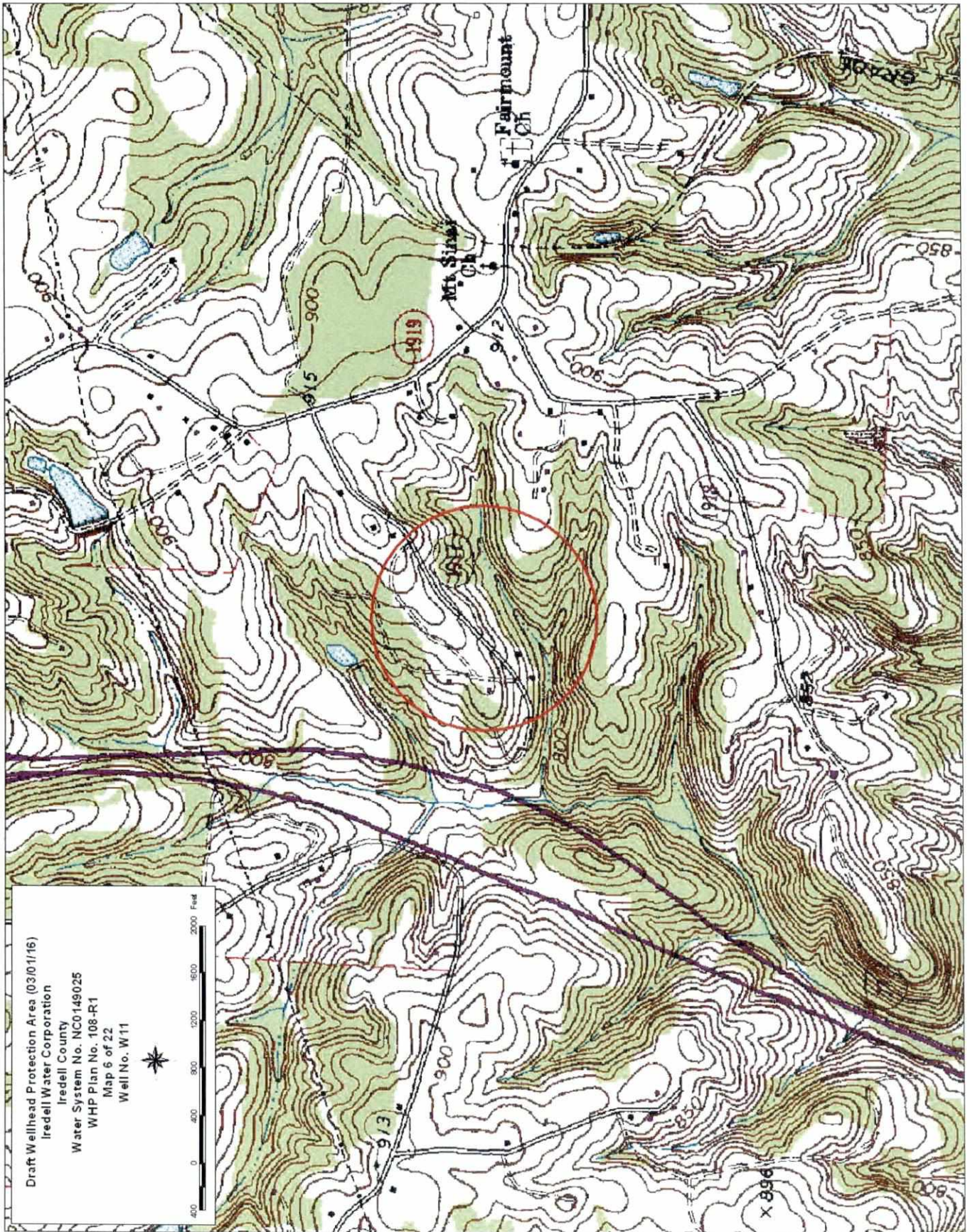
Draft Wellhead Protection Area (03/10/11/16)  
Iredell Water Corporation  
Iredell County  
Water System No. NC0149025  
WHP Plan No. 108-R1  
Map 2 of 22  
Well Nos. W02, W10, W20, W30, W34 and W37

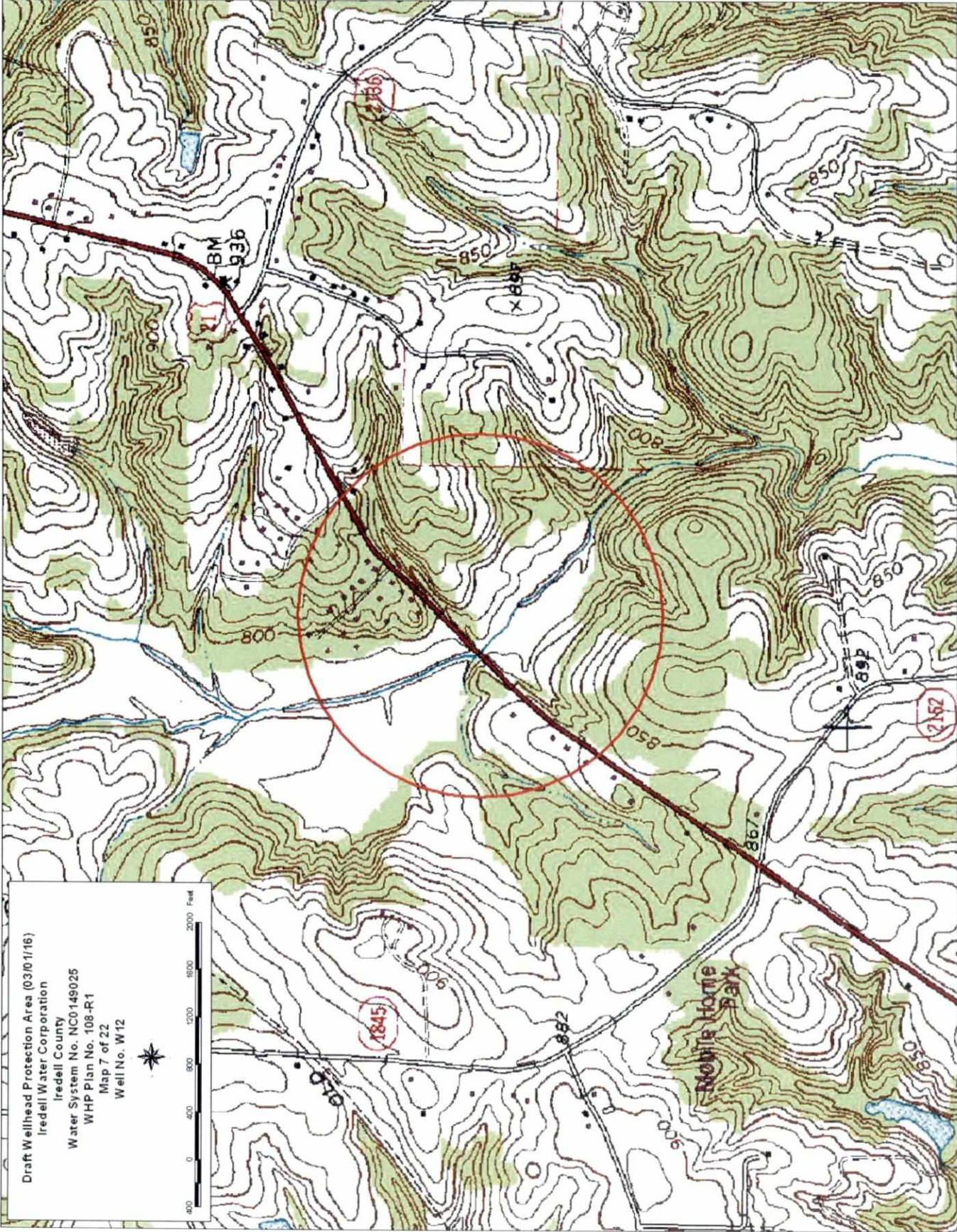


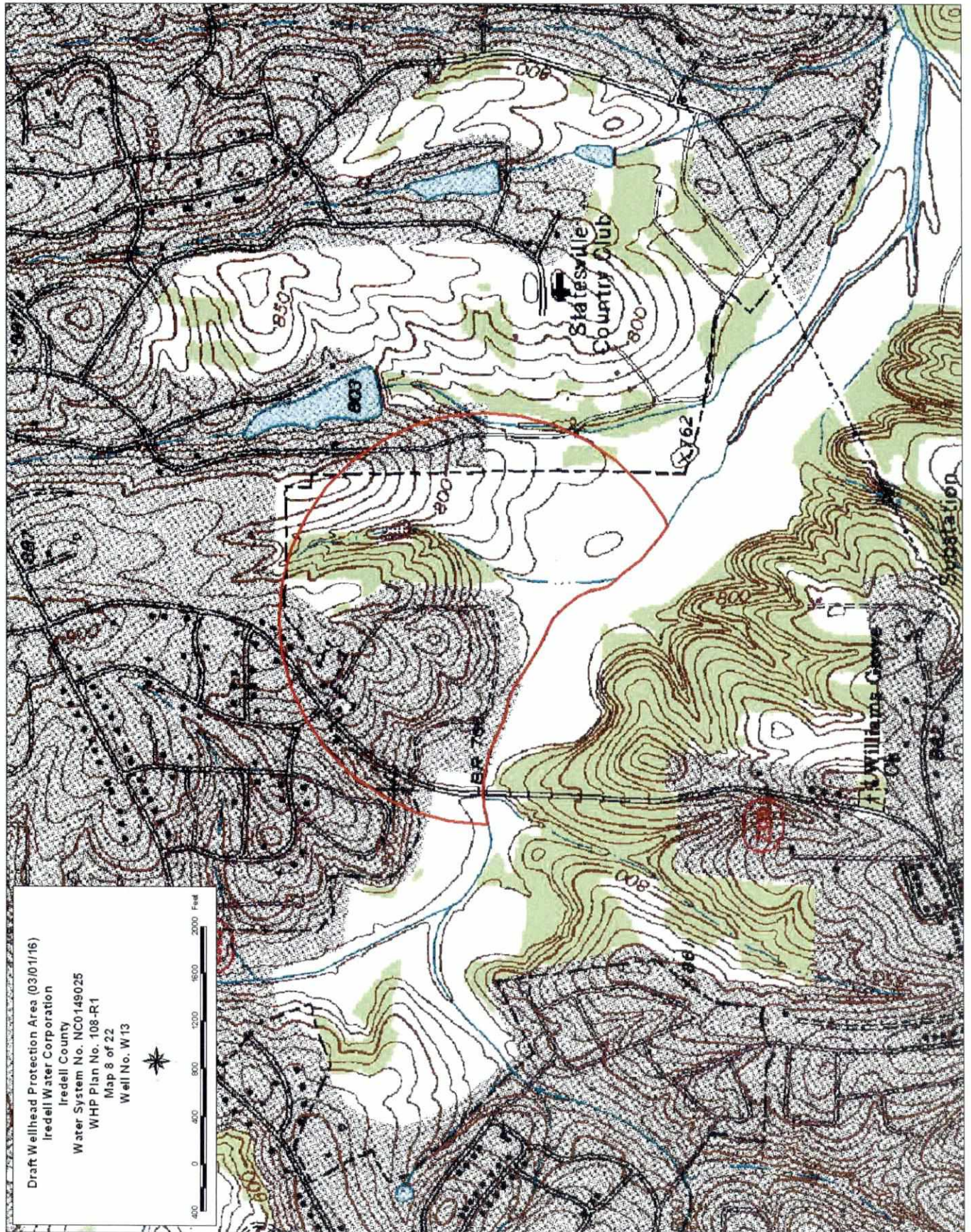
Draft Wellhead Protection Area (03/01/16)  
Iredell Water Corporation  
Iredell County  
Water System No. NC0149025  
WHP Plan No. 108-R1  
Map 3 of 22  
Well No. W04











Draft Wellhead Protection Area (03/01/16)

Iredell Water Corporation

Iredell County

Water System No. NC0149025

WHP Plan No. 108-R1

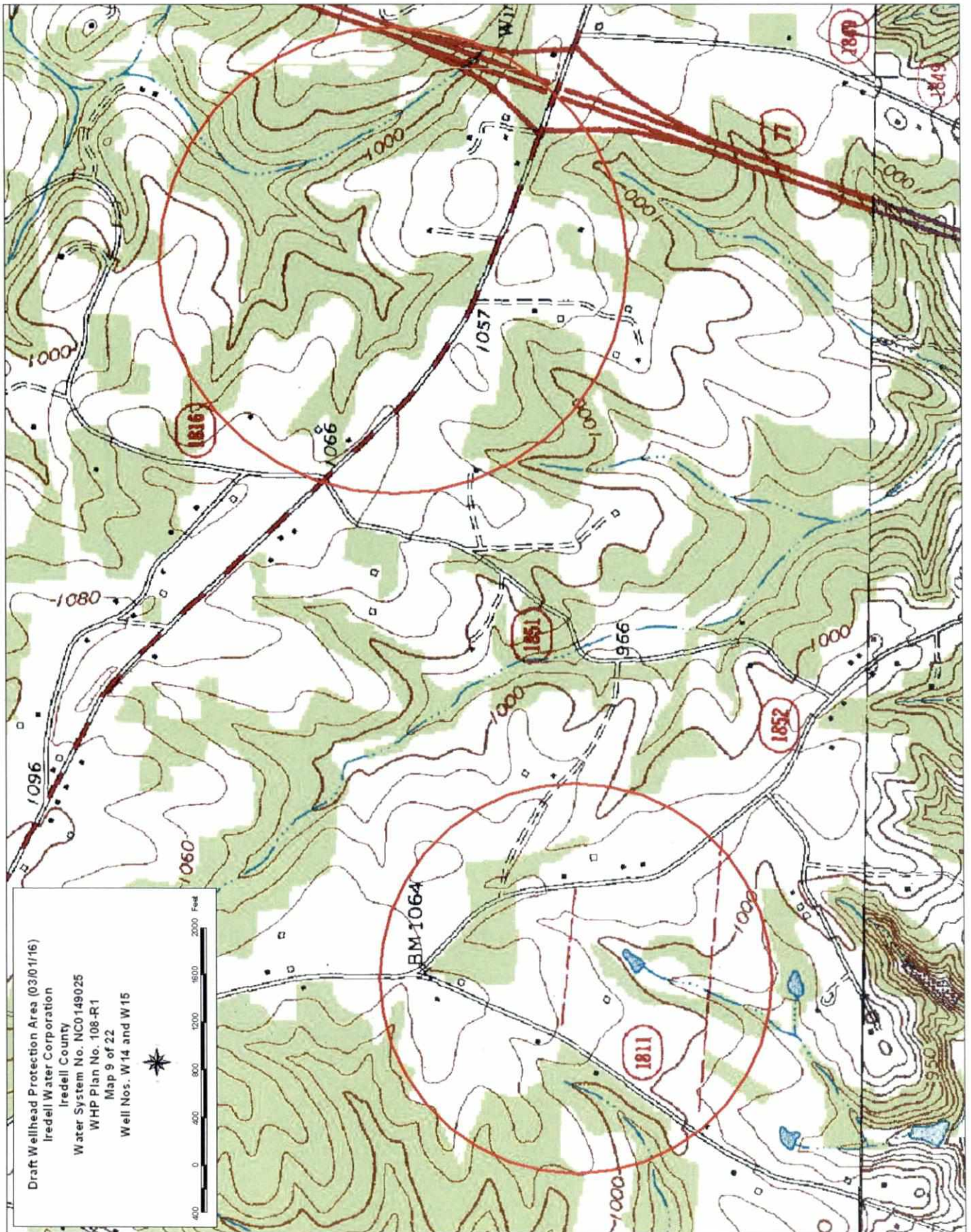
Map 8 of 22

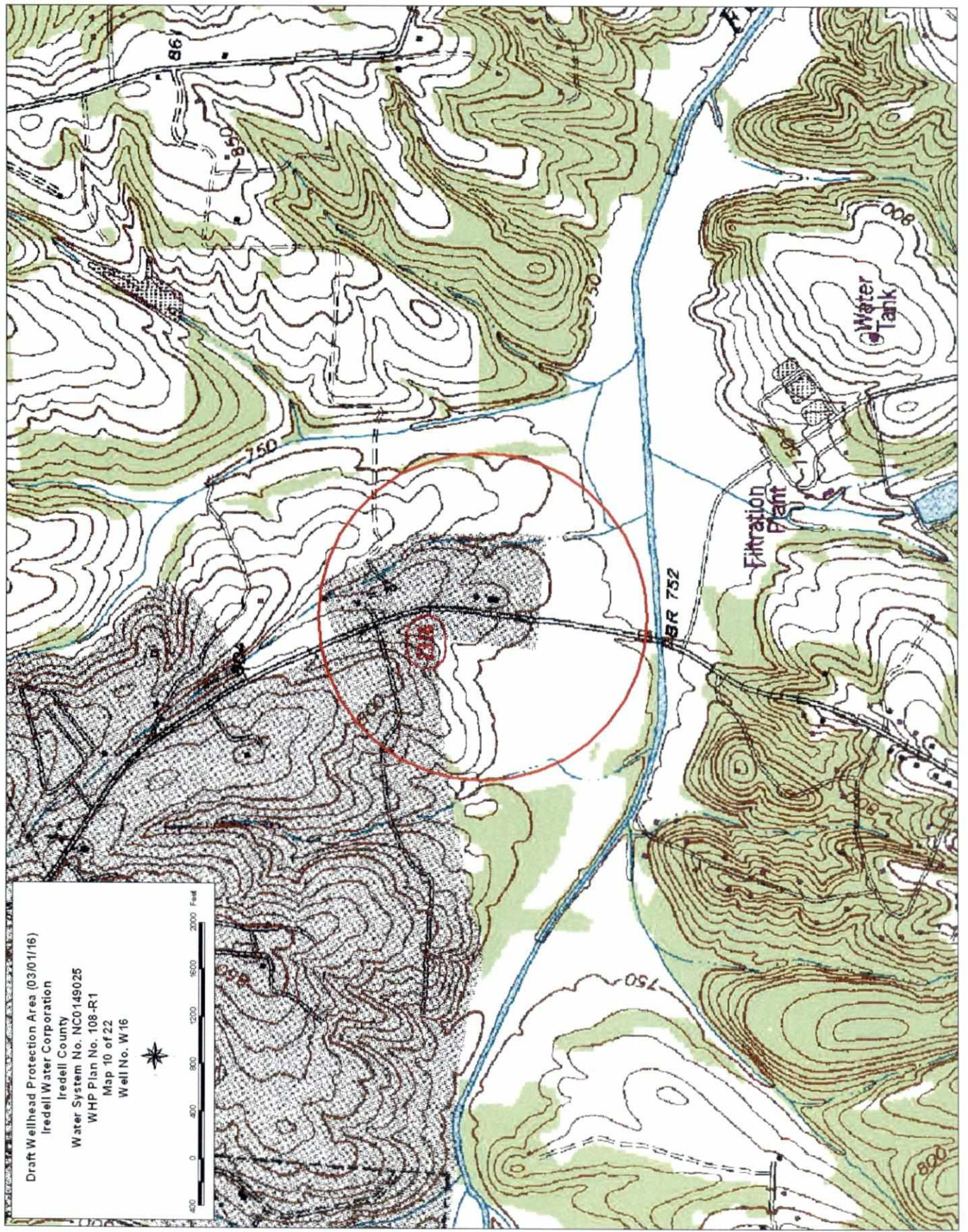
Well No. W13



400 0 400 800 1200 1600 2000 Feet

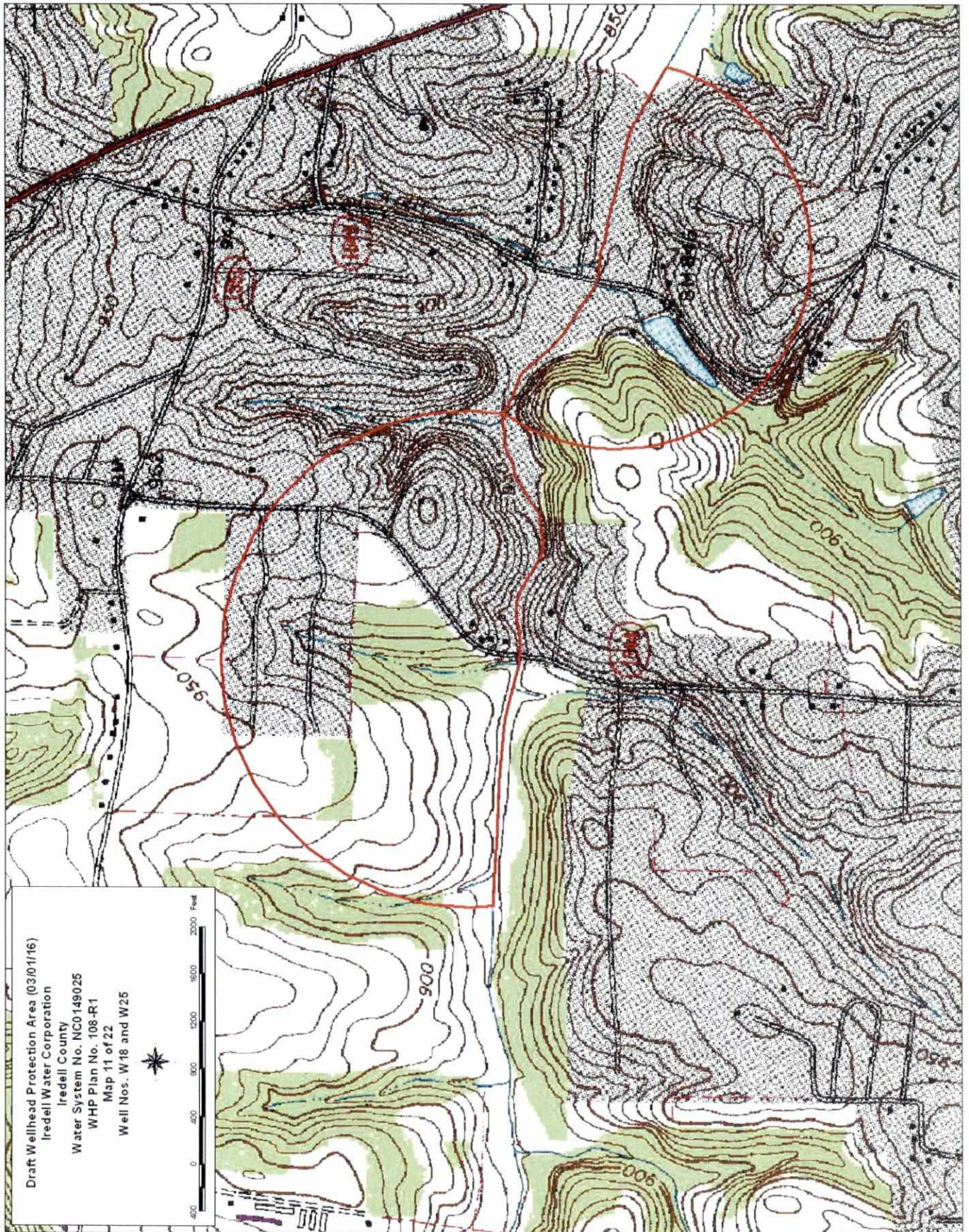




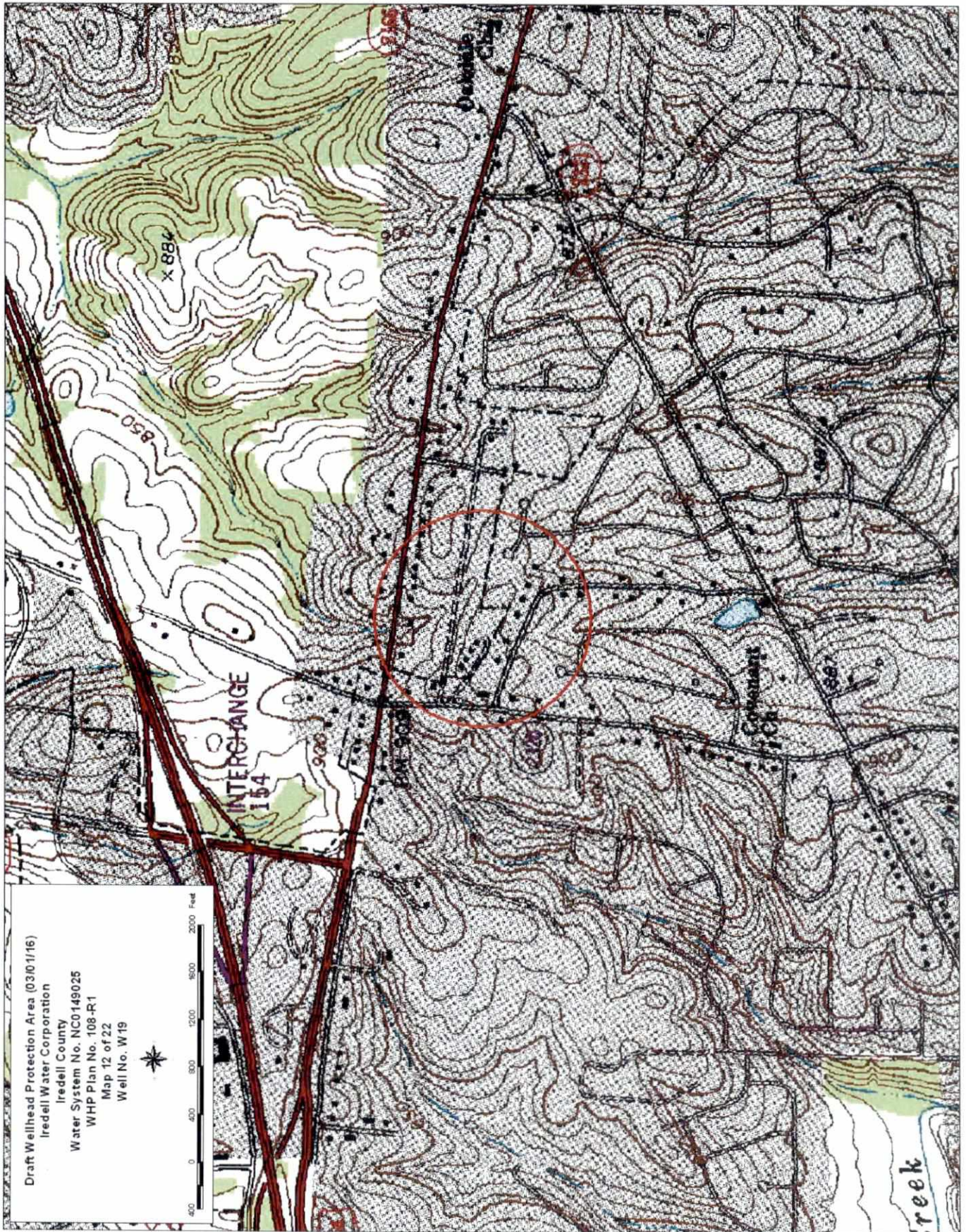


Draft Wellhead Protection Area (03/01/16)  
Iredell Water Corporation  
Iredell County  
Water System No. NC0149025  
WHP Plan No. 108-R1  
Map 10 of 22  
Well No. W16

400 0 400 800 1200 1600 2000 Feet

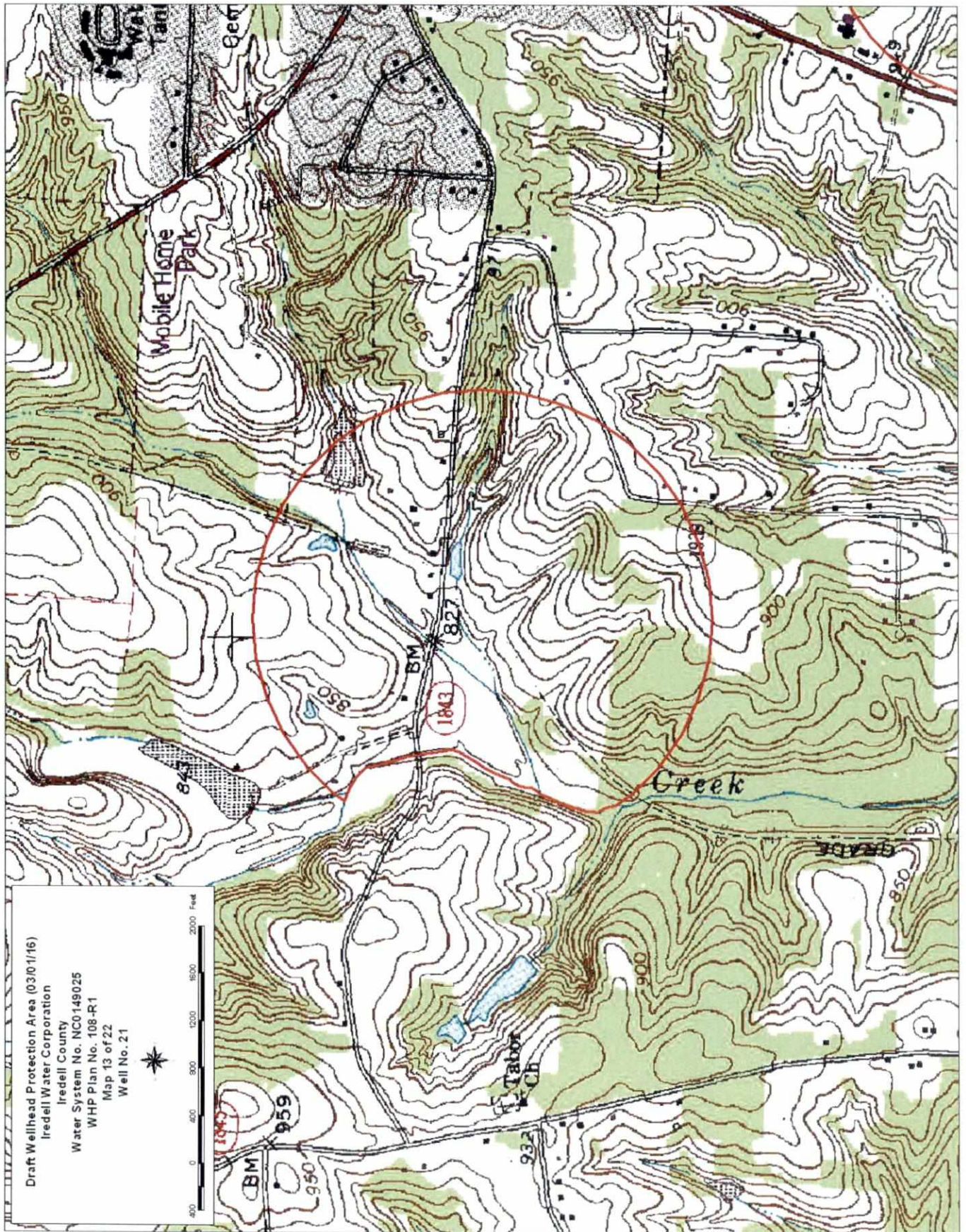


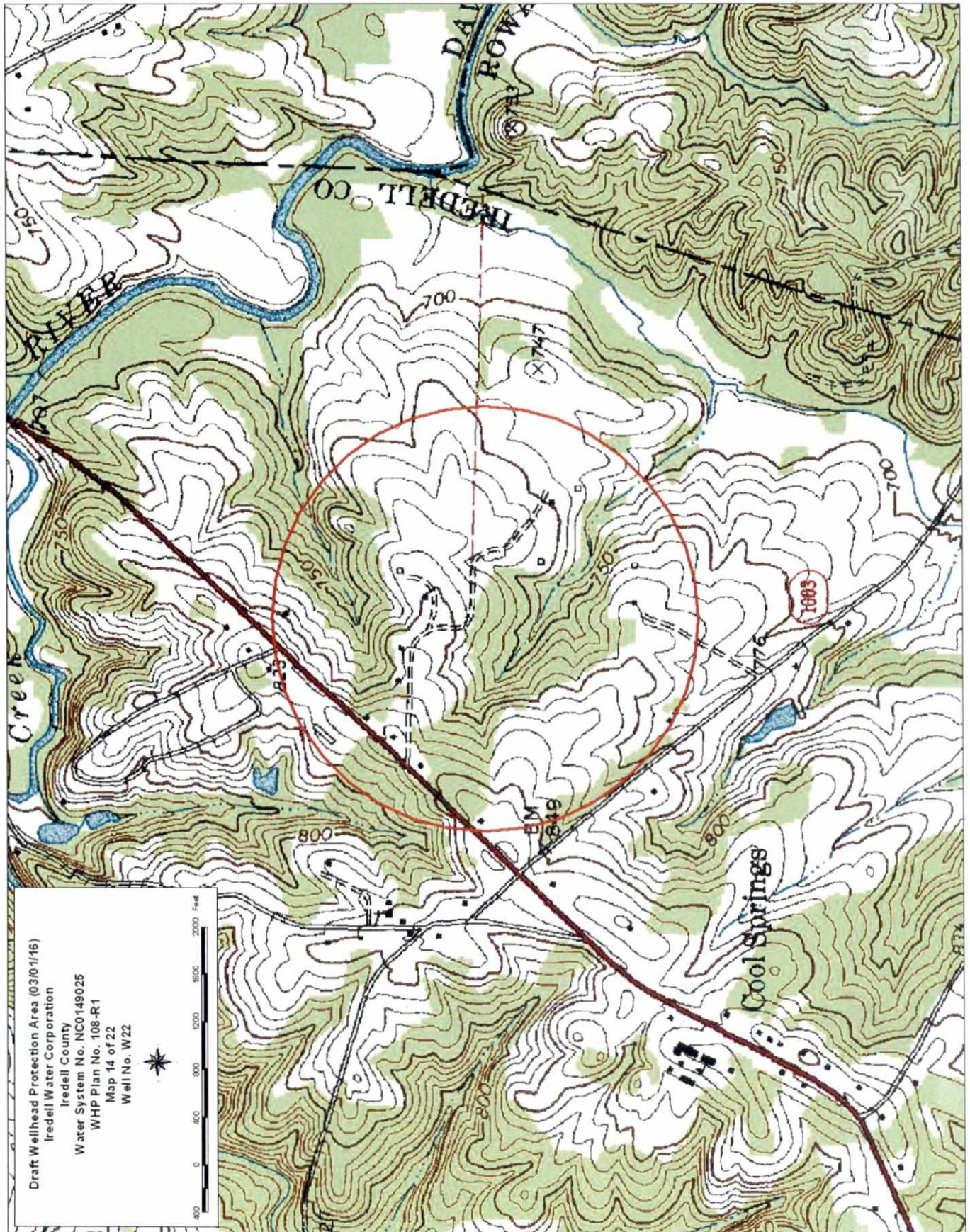
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Iredell County  
Water System No. NC0149025  
WHP Plan No. 108-R1  
Map 11 of 22  
Well Nos. W18 and W25

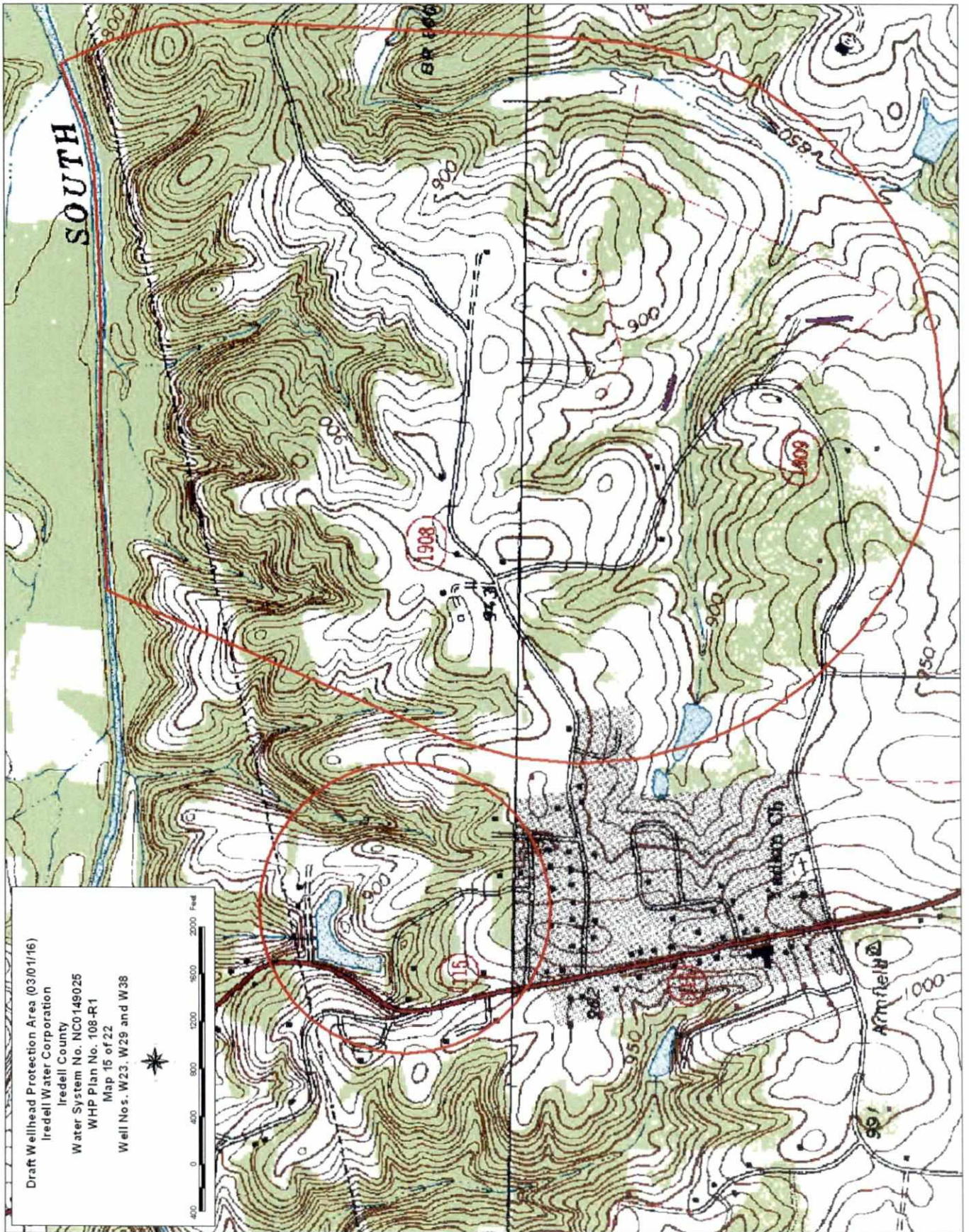


Draft Wellhead Protection Area (03/01/16)  
Iredell Water Corporation  
Iredell County  
Water System No. NC0149025  
WHP Plan No. 108-R1  
Map 12 of 22  
Well No. W19

0 400 800 1200 1600 2000 Feet

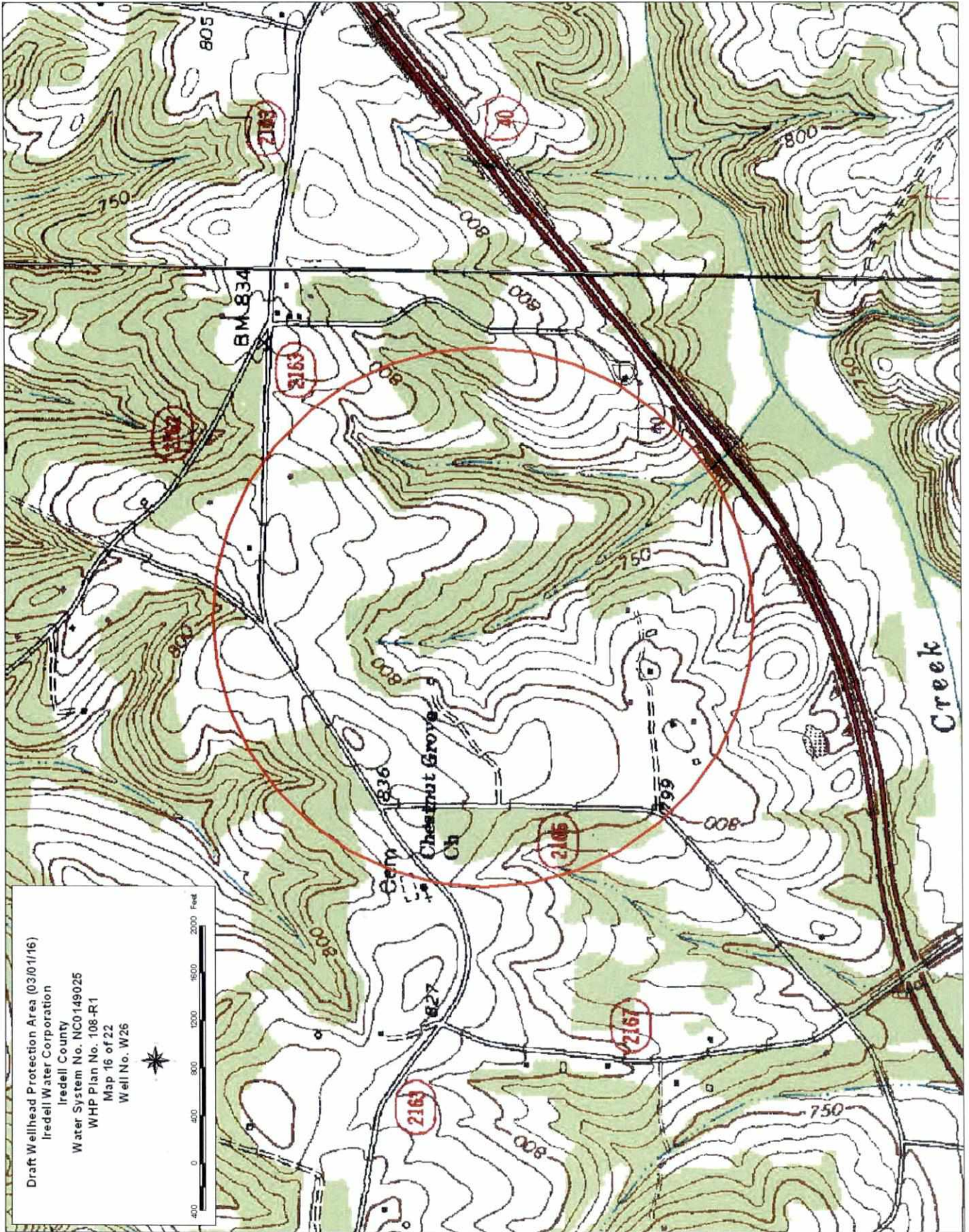




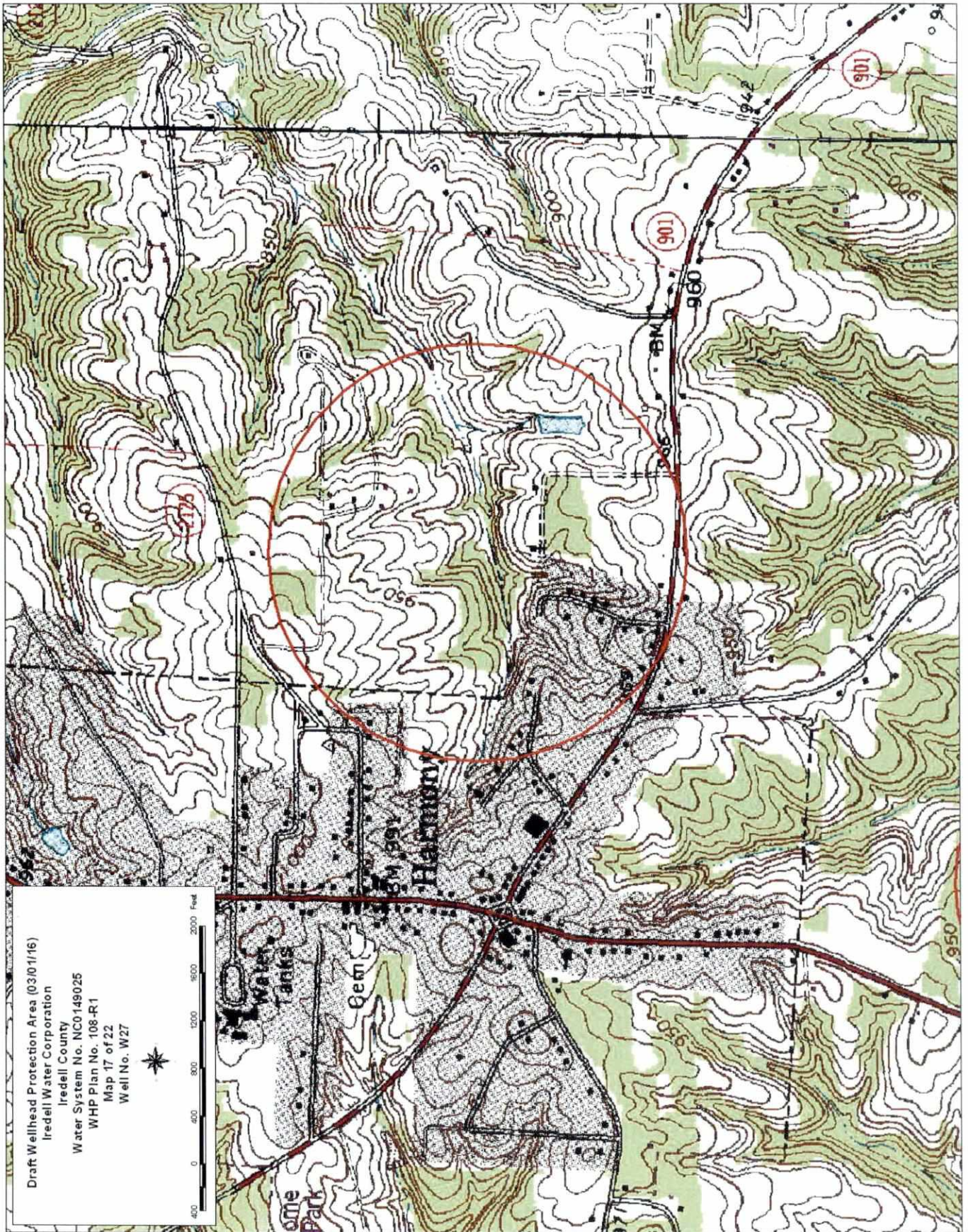


Draft Wellhead Protection Area (03/01/16)  
Irredell Water Corporation  
Irredell County  
Water System No. NC0149025  
WHP Plan No. 108-R1  
Map 15 of 22  
Well Nos. W23, W29 and W38



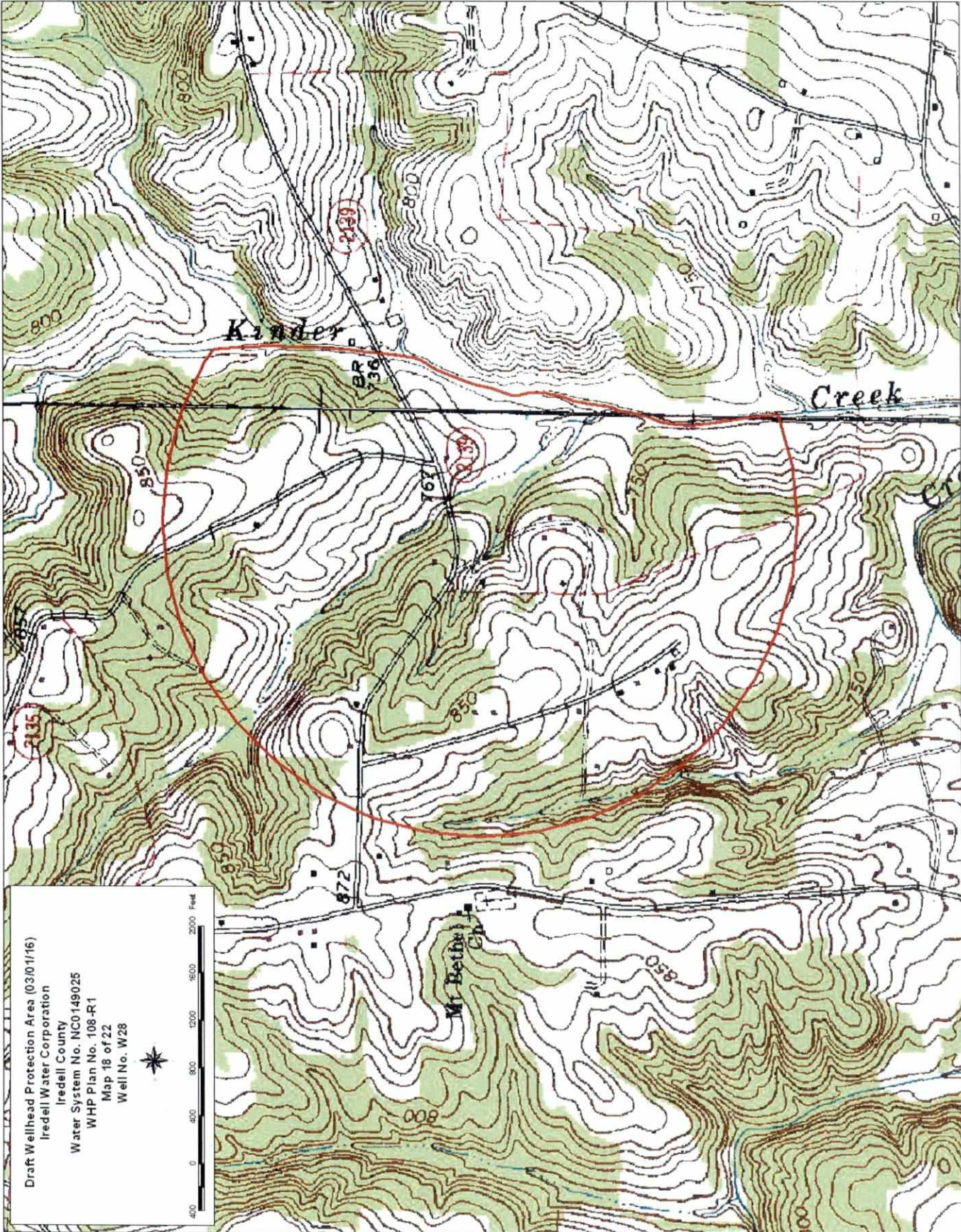


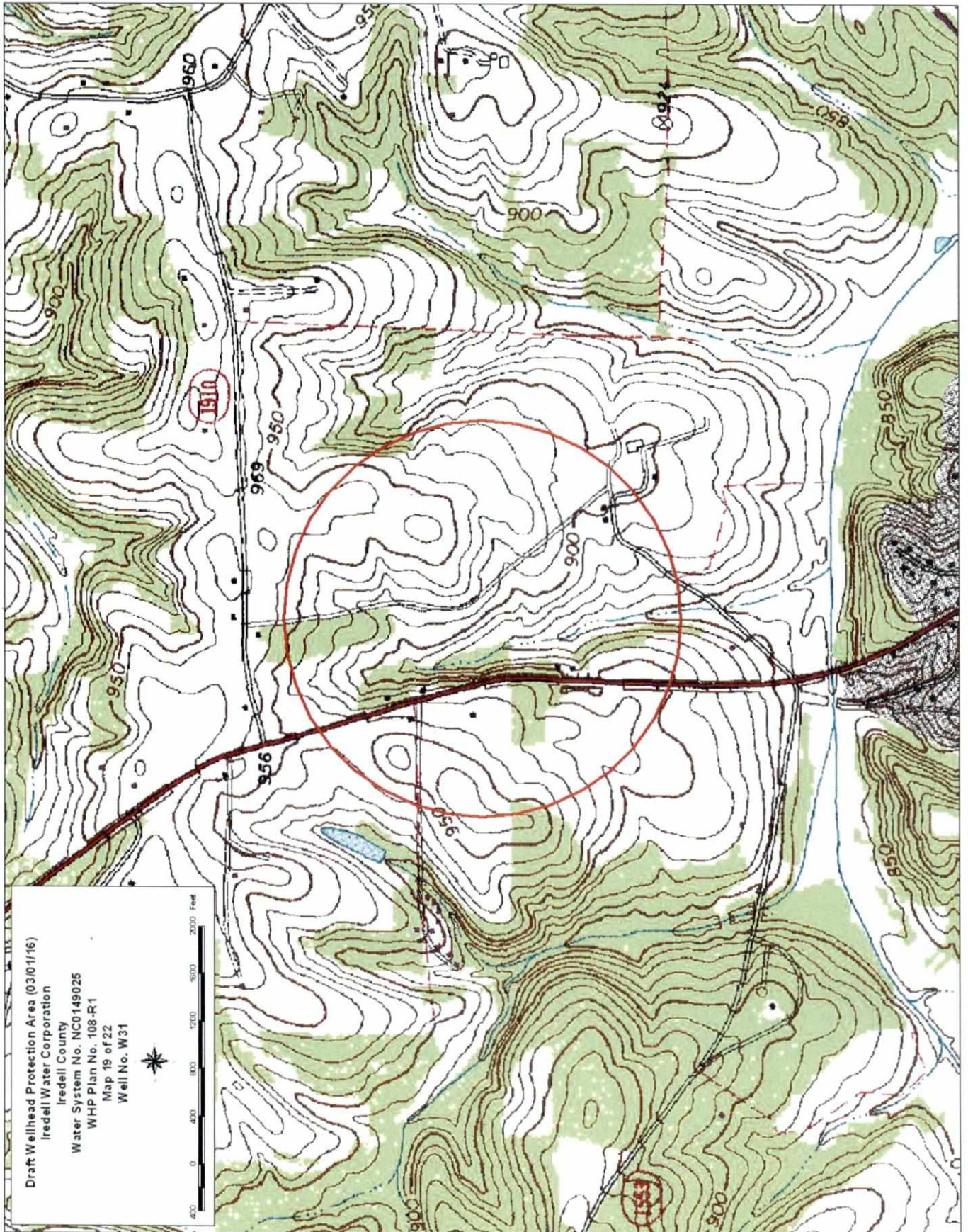


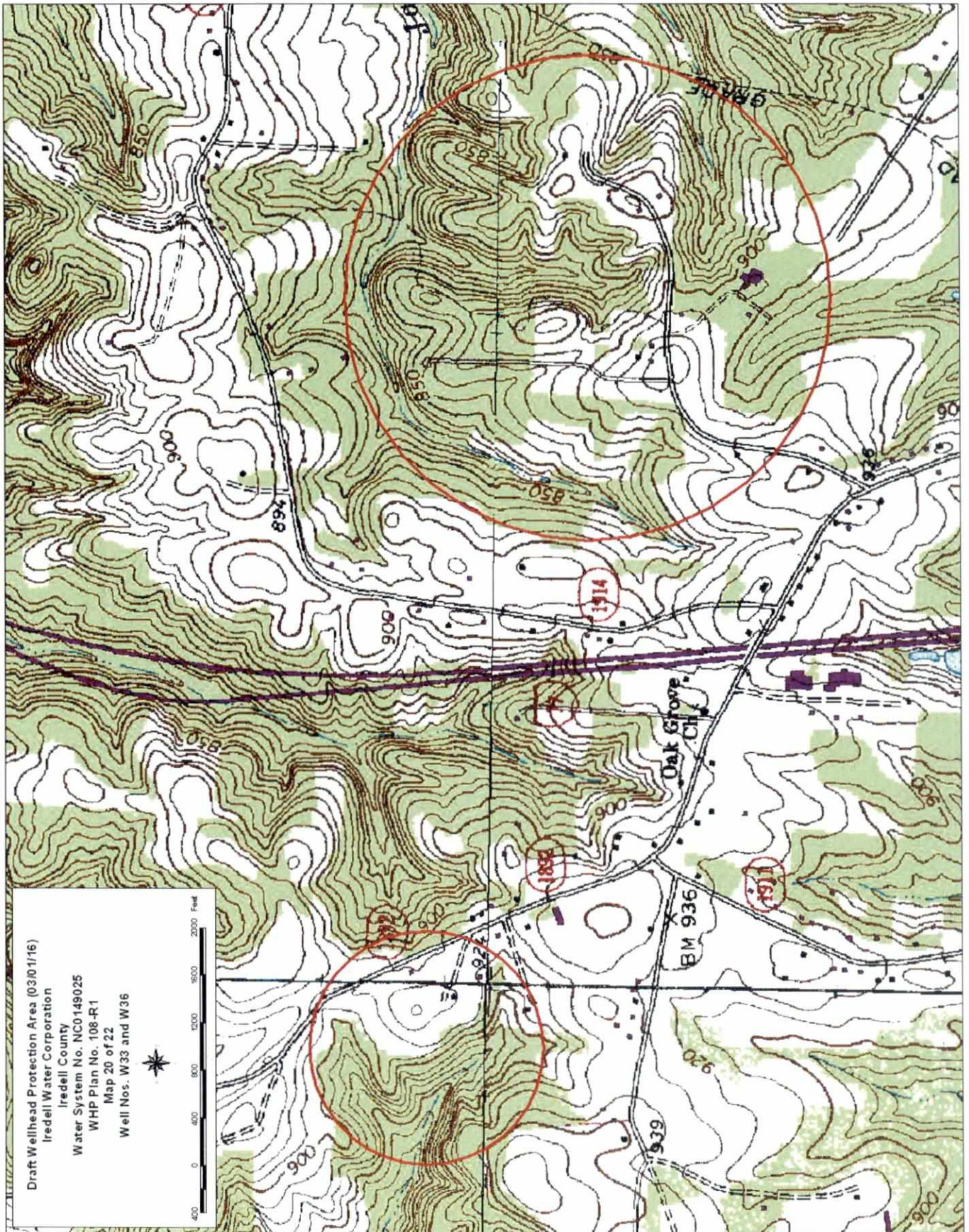


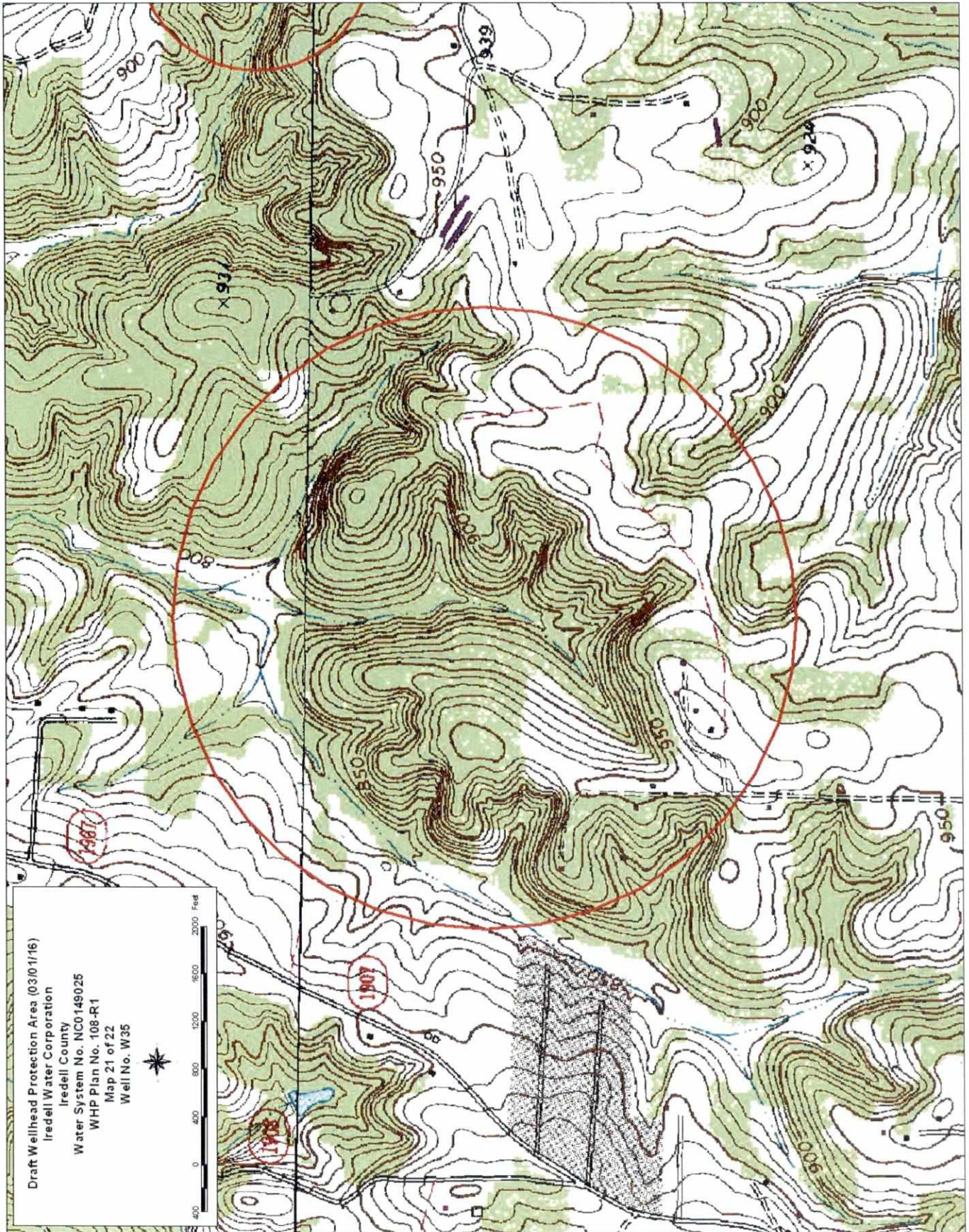
Draft Wellhead Protection Area (03/01/16)  
Iredell Water Corporation  
Iredell County  
Water System No. NC0149025  
WHP Plan No. 108-R1  
Map 17 of 22  
Well No. W27

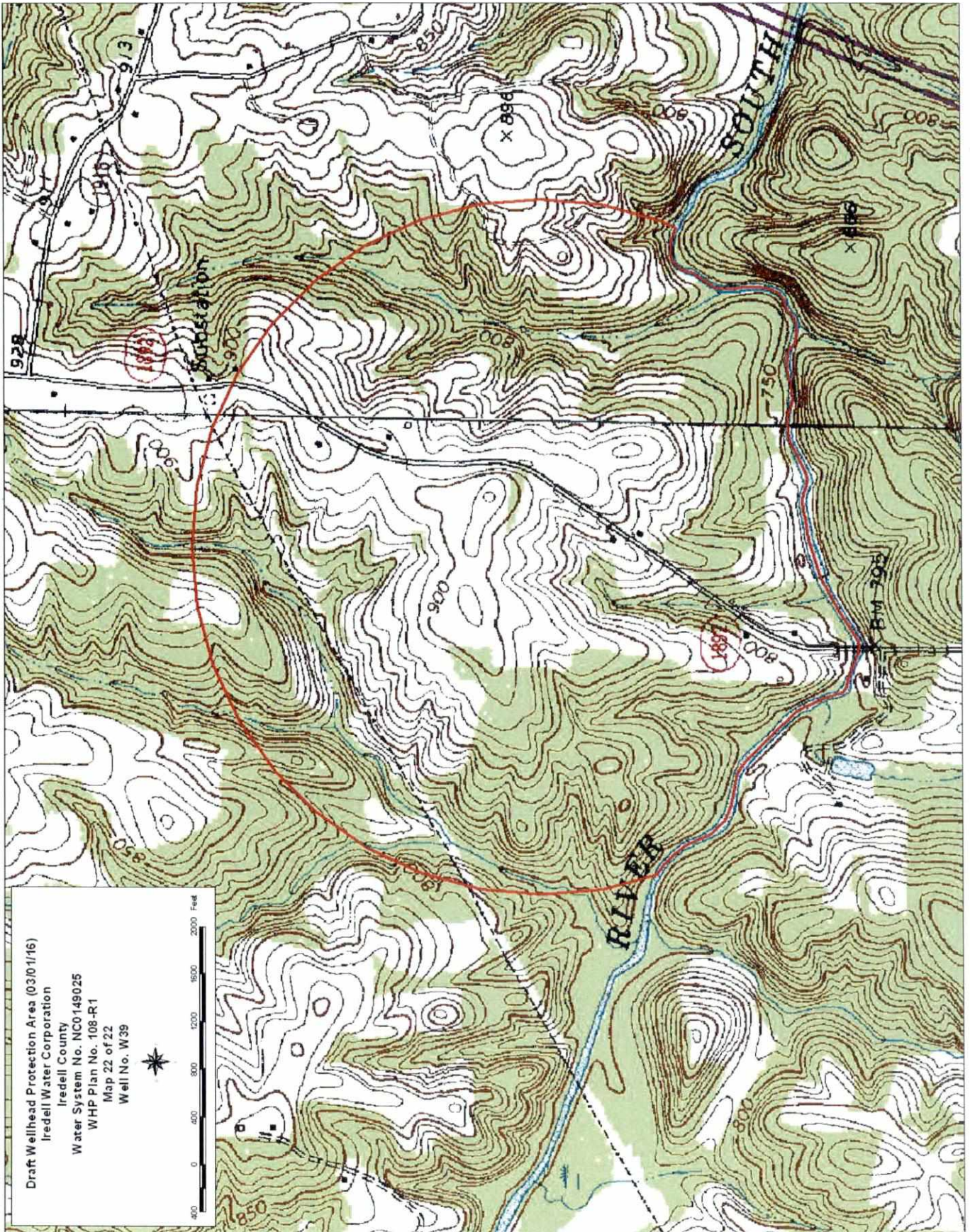












As stated, the well yield given on page 13 does not in every case agree with the well yield found in the Well Construction Records. The Iredell Water Corporation WPC has agreed to utilize the yield totals provided from the SDWIS, along with the associated delineated draft WHPAs. In addition, the WPC agreed that changes should be made to future Local Water Supply Plans to reflect the current accepted well yields.

## INVENTORY OF POTENTIAL CONTAMINANT SOURCES

A **Potential Contaminant Source** (PCS) is any substance or activity that could adversely affect the quality of your drinking water supply. The PCS inventory is a complete listing, including mapped locations, of past and present land use activities within the wellhead protection area (WHPA) that threaten groundwater quality. Each of the potential contaminant sources that were identified was assigned a code according to the category into which it falls. The potential contaminant categories and corresponding codes are listed in Table 3.

**Table 3. Potential Contaminant Categories**

PCS Site	Map Code
Poultry Operation	A
Poultry Operation (Abandoned)	B
Machine Shop	C
Gas Station	D
Dairy Farm	F
Dairy Farm (Abandoned)	FA
Farm Operation	G
Cemetery	H
Industry	I
Tier II Site	K
Source Water/Surface Water	L
Water Supply Well	M
Transportation Corridor	N
Hardware Store	O
Auto Parts/Repair	P
Above Ground Storage Tank	Q
Underground Storage Tank	R
Medical/Dental/Clinic/Vet	S
Chemical Mixing/Storage	T
Wood Processing	U
Carwash	V
PIRF Incident	W
Sewer Lift Station	X

The inventory process begins by looking at the Source Water Assessment Program Report for Iredell Water Corporation. Information from sixteen State and Federal Databases is combined into that report, and this information is used as a starting point to research files at the various state agencies. All relevant information is in the PCS table for each well site and in the following summaries.

**Table 4. SWAP Results Summary**

<b>Source Name</b>	<b>Susceptibility Rating</b>
WELL #1	Moderate
WELL #2	Higher
WELL #4	Moderate
WELL #5	Lower
WELL #6	Moderate
WELL #10	Higher
WELL #11	Lower
WELL #12	Moderate
WELL #13	Moderate
WELL #14	Moderate
WELL #15	Moderate
WELL #16	Moderate
WELL #18	Moderate
WELL #19	Moderate
WELL #20	Moderate
WELL #21	Moderate
WELL #22	Moderate
WELL #23	Moderate
WELL #25	Lower
WELL #26	Moderate
WELL #27	Lower
WELL #28	Moderate
WELL #29	Lower
WELL #30	Moderate
WELL #31	Moderate
WELL #32	Moderate
WELL #33	Moderate
WELL #34	Higher
WELL #35	Lower
WELL #36	Lower
WELL #37	Moderate
WELL #38	Lower

\* Well #39 was not in service before the completion of the most recent SWAP report

**NC SWAP Reports (Source Water Assessment and Protection)**

The Source Water Assessment Program (SWAP) information is compiled by the Public Water Supply (PWS) Section from available electronics PCS databases with statewide coverage obtained from various State agencies. The SWAP information is an extremely valuable starting point for conducting a PCS inventory. However, it is not a comprehensive database of all PCSs. Because it includes only those databases with statewide coverage that are



available to the PWS Section in an electronic format, PCS information specific to the area of interest may not be included. Databases (both hardcopy and electronic) maintained by local, county, state, and federal agencies may contain information about known PCSs occurring within the WHPA (e.g., areas of pesticide or fertilizer application, pesticide storage areas, landfills or dumps, inactive hazardous waste sites, underground storage tanks, above ground storage tanks, areas with septic systems, improperly constructed/abandoned wells, etc.) The NC SWAP Report was reviewed by the WPC and the Susceptibility for each well was ranked by the NC PWS Section as shown in the Table 4 above. Susceptibility is an indication of a water supply's potential to become contaminated by the identified PCSs within the assessment area. All relevant information found in the SWAP report is reflected in the PCS tables and in the following summaries. Iredell Water Corporation's SWAP Report can be located at the following website:

[http://www.ncwater.org/files/swap/SWAP\\_Reports/0149025\\_7\\_9\\_2015\\_85\\_11.pdf](http://www.ncwater.org/files/swap/SWAP_Reports/0149025_7_9_2015_85_11.pdf)

**Windshield Survey** – A Potential Contaminant Source (PCS) is any substance or activity that could adversely affect the quality of the drinking water supply. The WPC conducted a windshield survey of the entire WHPA and identified each potential contamination source (PCS) facility or activity that might exist within the WHPA. Onsite visits were made and additional information was obtained regarding quantity and types of contaminants kept on site. The Potential Contaminant Source lists show the sources identified during the inventory along with quantities and types of contaminants found at the site. Inventory maps showing the location of each of the potential contaminant sources within the WHPA follows each list. A list of [example potential contamination sources by risk category](#) is included in the Appendix.

**Septic Tanks** - Private septic tanks account for almost all waste treatment in all of the Iredell Water Corporation WHPAs. In addition, wells #2, 13, 19, 27, and 34 fall within WHPAs where residents have access to municipal waste treatment.

**Abandoned Wells** - Well 3 has been disconnected from the distribution system with ownership begin reverted back to the previous owner's family. Well 8 has been purchased by the County and has been physically disconnected and is no longer serving as a public water supply well. Iredell Water Corporation has abandoned Well 9 which is found in the area of the combined WHPA for Wells 2 and 34 and in the area of Well 30. Well 17 located southwest of Well 18 has been properly abandoned. Also, Well 24 (located approximately 20 feet from Well 38) has been properly abandoned.

**Lift Stations** - There is a lift station, owned by the Town of Harmony, located in the WHPA for Well # 27. This is the only WHPA for Iredell Water Corporation that contains a lift station.

Several local, state and federal databases were searched. Information about the databases and Potential Contaminant Sources is provided below.

**Pre-Sanitary Landfills** - The landfills that appeared on the Waste Management Pre-Sanitary Landfill database were surveyed and it was determined by the WPC that no such facilities were within the WHPA.

**NC Solid Waste Facilities** - According to the Solid Waste Database, there were no Solid Waste facilities located in Iredell Water Corporation's WHPA.

**Iredell County Emergency Management Services** - Facilities covered by The Emergency Planning and Community Right to Know Act (EPCRA) must submit an emergency and hazardous chemical inventory form to the Local Emergency Management Coordinator, the State Emergency Response Commission, and the local fire department annually. SARA Title III Tier II forms require basic facility identification information, employee contact information for both emergencies and non-emergencies, and information about chemicals stored or used at the facility. The Tier II Forms for the following locations have been requested from Iredell County Emergency Management office, along with any other Tier II reports for known hazardous sites in any of the wellhead protection areas:

- UPS, 147 Parcel Drive, Statesville, NC 28625
- Home Depot, 240 Turnersburg Hwy., Statesville, NC 28625
- Lowes, 140 North Pointe Blvd., Statesville, NC 28625
- 7-Eleven Store, 1460 w. Memorial Hwy., Union Grove, NC 28689

**Underground Injection Control (UIC)** - According to the UIC Database, there were no UIC facilities located in Iredell Water Corporation's WHPA.

**Animal Operations (Swine)** - It was determined by the WPC that the animal operations which appeared on the database were not within the WHPA.

**NC NPDES Permit Database** - It was determined by the WPC that of the NC NPDES permits which appeared on the database, only one site is located within a WHPA. This permitted site is as follows:

- G & G Lumber Co.  
147 Lumber Dr., Union Grove, NC 28689  
NPDES ID: NCG210183  
Facility Type: NON-POTW  
Facility Information

One other NPDES permitted site is shown on the SWAP report but did not show up in the database: NCDOC Woodworking Plant, Hwy 21 N, Statesville (PCS ID NCGNE0159)

## **EPA Envirofacts Multi-Query Database Search:**

**The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund)** - The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), commonly referred to as Superfund, was enacted on December 11, 1980. CERCLA provides EPA's Office of Emergency and Remedial Response (OERR) the authority to respond to releases or threatened releases of hazardous substances, pollutants, or contaminants that may endanger human health or the environment. EPA follows the procedures outlined in the National Contingency Plan (NCP) at 40 CFR Part 300 to respond to releases and threatened releases of hazardous substances, pollutants, or contaminants. CERCLA also requires that EPA maintain the National Priorities List (NPL), a list of sites across the United States that require remedial action due to releases or threatened releases of hazardous substances. Finally, CERCLA requires reporting of releases of hazardous substances, establishes the liability of persons responsible for releases of hazardous substances, and establishes a trust fund to provide for cleanup when no responsible party can be identified. It was decided by the WHP Committee that the facilities that appeared on the database were not within Iredell Water Corporation's WHPA.

**NPDES Permit Compliance System (PCS)** - PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities. According to the Envirofacts database, only one site is located within a WHPA. This permitted site is as follows:

- G & G Lumber Co.  
147 Lumber Dr., Union Grove, NC 28689  
NPDES ID: NCG210183  
Facility Type: NON-POTW  
Facility Information

**Resource Conservation and Recovery Act Information (RCRAInfo)** - RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA. According to the Envirofacts database, there are three Hazardous Waste Handlers located within Iredell Water Corporation's WHPA.

- Home Depot #3642  
240 Turnersburg Hwy, Statesville, NC 28625  
FRS ID: 110024443020  
No Violations  
See ECHO Report

- Tire Kingdom, Inc #244  
115 North Cross Lane, Statesville, NC 28625  
FRS ID: 110024445411  
No Violations  
See ECHO Report
- G & G Lumber Co.  
Hwy 901 & I77, Union Grove, NC 28689  
FRS ID: 110018515089  
No Violations  
See ECHO Report

**Toxic Release Inventory (TRI)** - The Toxics Release Inventory (TRI) contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment. With Envirofacts, you can determine which facilities in your area of interest have reported toxic releases, including air emissions, water surface water discharges, releases to land, underground injections, and transfers to offsite locations. According to the Envirofacts database, no facilities within the wellhead protection area reported toxic releases.

**Enforcement and Compliance History Online (ECHO)** - The information provided on Enforcement and Compliance History Online (ECHO) relates to facilities regulated as Clean Air Act (CAA) stationary sources, as Clean Water Act (CWA) permitted dischargers (under the National Pollutant Discharge Elimination System (NPDES)), and Resource Conservation and Recovery Act (RCRA) hazardous waste site. ECHO reflects State/local and Federal compliance and enforcement records under those statutes that have been entered into EPA's national databases. There have been no enforcement actions on any facilities located within the WHPA.

**PIRF Incidents** - The PIRF database contains information regarding the release of pollutants into the environment that have or are likely to have, impact on the groundwater resources of the State. The initial information regarding these releases is usually obtained from concerned citizens or responsible parties, who report the release to the Department of Environment and Natural Resources. After an incident is reported, regional office staff investigates the reported incident and enter the results of their investigation into a statewide database. This database contains an inventory of reported incidents from a variety of sources, such as leaking storage tanks, tanker spills, animal feedlots, stockpiles and etc. Substances released into the environment include gasoline and other related compounds, chemicals, nitrates, pesticides, and other organic and inorganic contaminants. There are two main sources for this data. The Division of Waste Management, Underground Storage Tank Section provided information on the pollution incidents that resulted from a leaking underground storage tank. The Division of Water Resources, Aquifer Protection

Section provided information on all other pollution incidents. There remains one actively monitored PIRF incident located within Iredell Water Corporation's WHPA.

- Barker's Grocery- PIRF Incident # 8489 - 104 Houpe Rd., Statesville, NC  
Engineering Tectonics of Winston-Salem removed five (5) USTs at the Barker's Grocery 6/8/90. A petroleum release was discovered and contaminated soil was stock-piled on-site improperly. Guidelines were provided to the facility for the proper permitting procedures for the land farming of petroleum contaminated soil 7/91. After soil removal and proper land farming was conducted the facility was consequently issued the lowest priority ranking (E) on 7/96. Under Senate Bill 1317 the State temporarily suspends requirements to clean up a discharge or release from a petroleum UST for these lower priority sites. In 2007, an Underground Storage Tank Closure report was submitted by Terraquest on behalf of Beroth Oil Co. to NCDWM-UST Section for the previously removed storage tanks. Product line tightness test were conducted on the current tanks in 2007 with all tanks passing. Soil sampling from Jan. 2007 that showed contaminant levels above the maximum were likely from the former USTs. In 2010, a monitoring report/soil investigation was performed by Terraquest. Petroleum type compounds were detected in both soil borings at concentrations that exceed the STG MSCCs. These violations reported at a depth that is approaching the water table. In February of 2011, a Soil-Only Corrective Action Plan was submitted to NCDWM-UST by Terraquest on behalf of Beroth Oil Company as was approved. In November 2011, three (3) monitoring wells were drilled onsite. Well construction records document the installation of three (3) soil vapor extraction remediation systems. Beginning in April 2012, the SVE system analytical results revealed that the system is removing contamination from the subsurface and continued to do so since. The next soil monitoring report is due to the Mooresville Regional Office of the NCDWM-UST section on December 31, 2016. This is currently an annual report. This site is considered a "High Risk" site due to its proximity to drinking water wells.

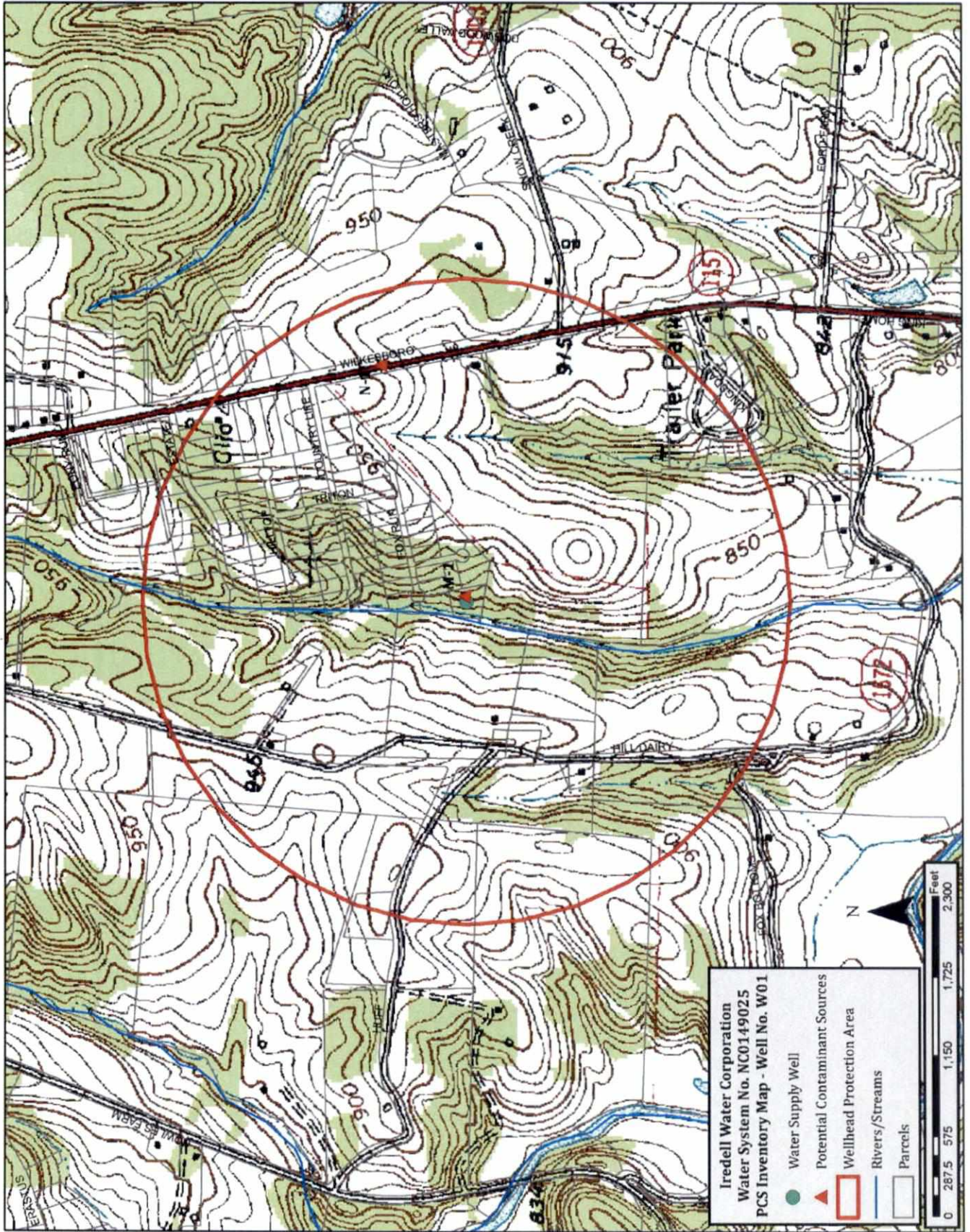
The windshield and walk-through surveys identified the remainder of the potential contaminant sources, and obtained or verified owner contact information and data regarding the type of potential contaminants. All the potential contaminant sources identified in the database, literature, file, and on-site surveys are presented in the potential contaminant source inventory tables below for each well site.

The following tables list the potential sources of contamination in the Iredell Water Corporation wellhead protection areas. The exception to this are the numerous home heating oil tanks and septic tanks used at many residences, and which remain off the inventory for this reason. The tables have map codes used to identify the potential sources of contamination on the PCS Inventory Map following each table. For more detailed information about each potential contaminant source, including information relevant in providing educational materials to owners, please see the PCS Data Charts in the Appendix. Where listed on the PCS Data Charts "small quantities" means less than 100-gallons or 100-pounds. The map codes used to identify each potential contaminant site category are detailed in Table 3 on page 38.

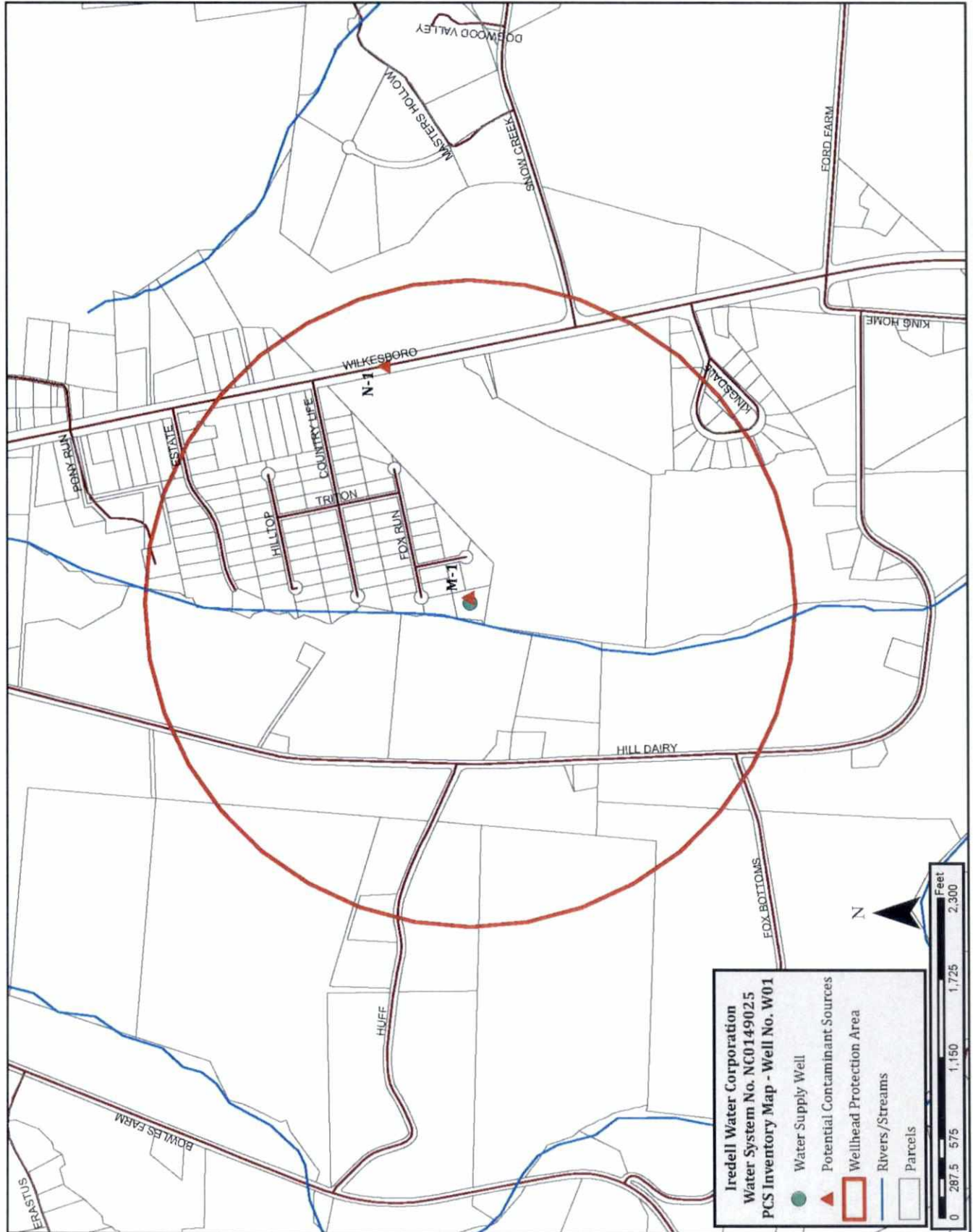
**Potential Contaminant Source Inventory  
Tables and Maps**

**Table 5. Potential Contaminant Source Inventory - Well No. W01**

<b>PCS Category</b>	<b>Map Code</b>	<b>PCS Site</b>	<b>Physical Location</b>
Water Supply Well	M-1	Well 1	114 Deep Water Dr. Statesville, NC 28625
Transporation Corridor	N-1	NC Hwy 115	NC Hwy 115









**Iredell Water Corporation**  
**Water System No. NC0149025**  
**PCS Inventory Map - Well No. W01**

- Water Supply Well
- ▲ Potential Contaminant Sources
- Wellhead Protection Area
- Rivers/Streams
- ▭ Parcels



**Table 6. Potential Contaminant Source Inventory - Well No. W02 and W34**

PCS Category	Map Code	PCS Site	Physical Location
Gas Station	D-1	R.J. Tobacco Discount	308 Turnersburg Hwy. Statesville, NC 28625
Church/Cemetery	H-1	Davidsonville Church	422 Turnersburg Hwy. Statesville, NC 28625
Church/Cemetery	H-2	Fairview Church	349 Turnersburg Hwy. Statesville, NC 28625
Industry	I-1	Iron World	214 James Farm Rd. Statesville, NC 28625
Tier II Site	K-1	Lowe's of Statesville	140 N. Pointe Blvd. Statesville, NC 28625
Tier II Site	K-2	The Home Depot	240 Turnersburg Hwy. Statesville, NC 28625
Water Supply Well	M-2	Well 2	129 James Farm Rd. Statesville, NC 28625
Water Supply Well	M-3	Well 34	296 Turnersburg Hwy. Statesville, NC 28625
Transportation Corridor	N-2	Hwy US 21	Hwy US 21
Hardware Store	O-1	Lowe's of Statesville	140 N. Pointe Blvd. Statesville, NC 28625
Hardware Store	O-2	Fort Dobbs Hardware	406 Turnersburg Hwy. Statesville, NC 28625
Hardware Store	O-3	The Home Depot	240 Turnersburg Hwy. Statesville, NC 28625
Auto Parts/Repair	P-1	AutoZone	109 Northcross Ln. Statesville, NC 2636
Above Ground Storage Tank	Q-1	Crown Castle Cell Tower	Adjacent to 214 James Farm Rd., Statesville
Underground Storage Tank	R-1	United Parcel Service	147 Parcel Dr. Statesville, NC 28625
Underground Storage Tank	R-2	R.J. Tobacco Discount	308 Turnersburg Hwy. Statesville, NC 28625
Medical/Dental/Clinic/ Vet	S-1	Iredell Co. Health Dept.	318 Turnersburg Hwy. Statesville, NC 28625
Chemical Mixing/Storage	T-1	Cygnnet Enterprises, Inc.	132 Parcel Dr. Statesville, NC 28625
Carwash	V-1	Five Star Carwash	108 Venture Ln. Statesville, NC 28625

**Table 7. Potential Contaminant Source Inventory - Well No. W10 and W20**

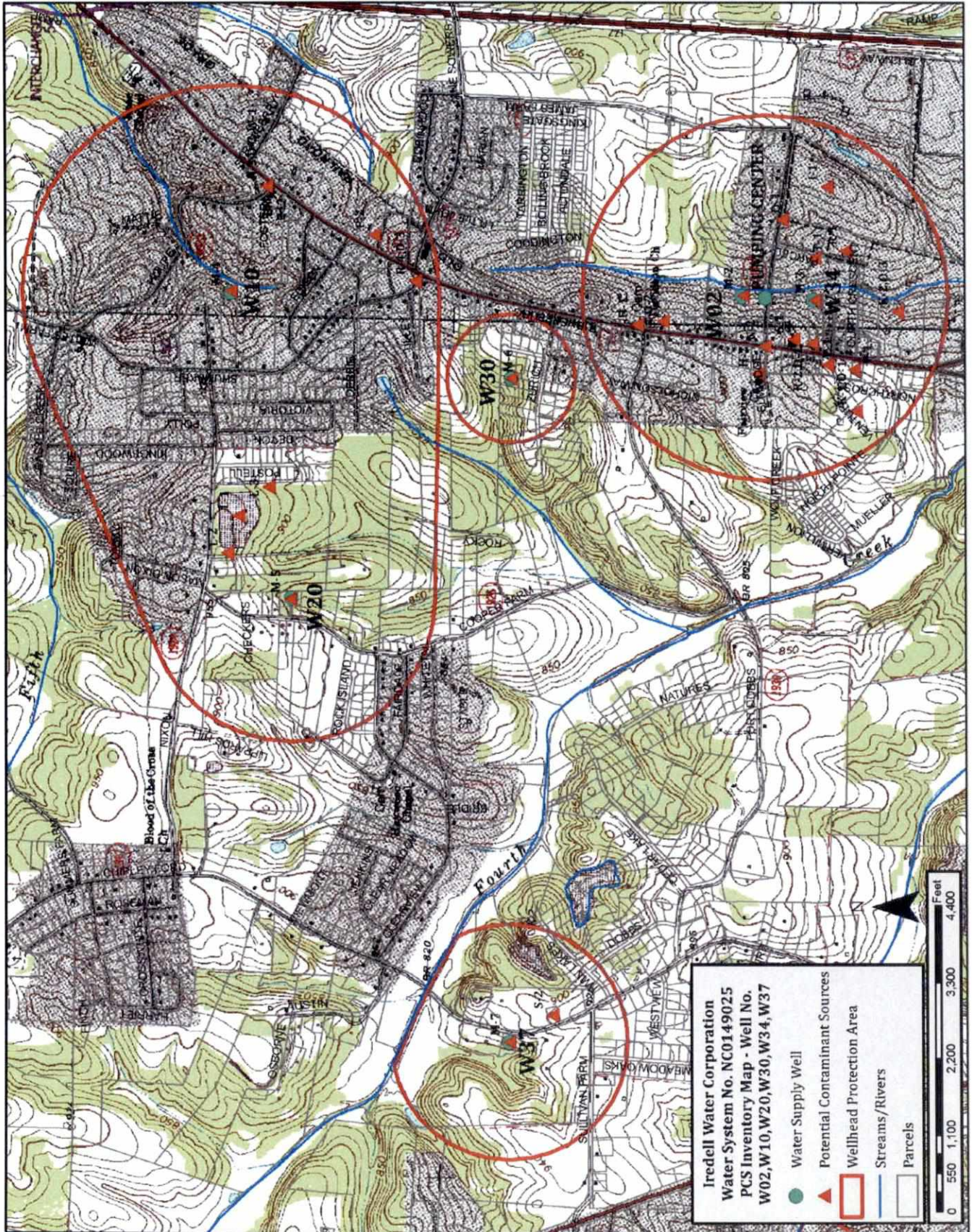
PCS Category	Map Code	PCS Site	Physical Location
Gas Station	D-2	Barker's Grocery	104 Houpe Rd. Statesville, NC 28625
Gas Station	D-3	Royal Express	583 Turnersburg Hwy. Statesville, NC 28625
Source Water/Surface Water	L-1	Statesville Raw-Water Reservoir	Nixon Rd. Statesville, NC 28625
Source Water/Surface Water	L-2	Statesville Raw Water Backup Well 1	Nixon Rd. Statesville, NC 28625
Source Water/Surface Water	L-3	Statesville Raw Water Backup Well 2	Nixon Rd. Statesville, NC 28625
Water Supply Well	M-4	Well 10	482 Nixon Rd. Statesville, NC 28625
Water Supply Well	M-5	Well 20	426 Cooper Farm Rd. Statesville, NC 28625
Auto Parts/Repair	P-2	A&A Sales Inc.	618 Turnersburg Hwy. Statesville, NC 28625
Underground Storage Tank	R-3	Barker's Grocery	104 Houpe Rd. Statesville, NC 28625
Underground Storage Tank	R-4	Royal Express	583 Turnersburg Hwy. Statesville, NC 28625
PIRF Incident	W-1	Barker's Grocery	104 Houpe Rd. Statesville, NC 28625

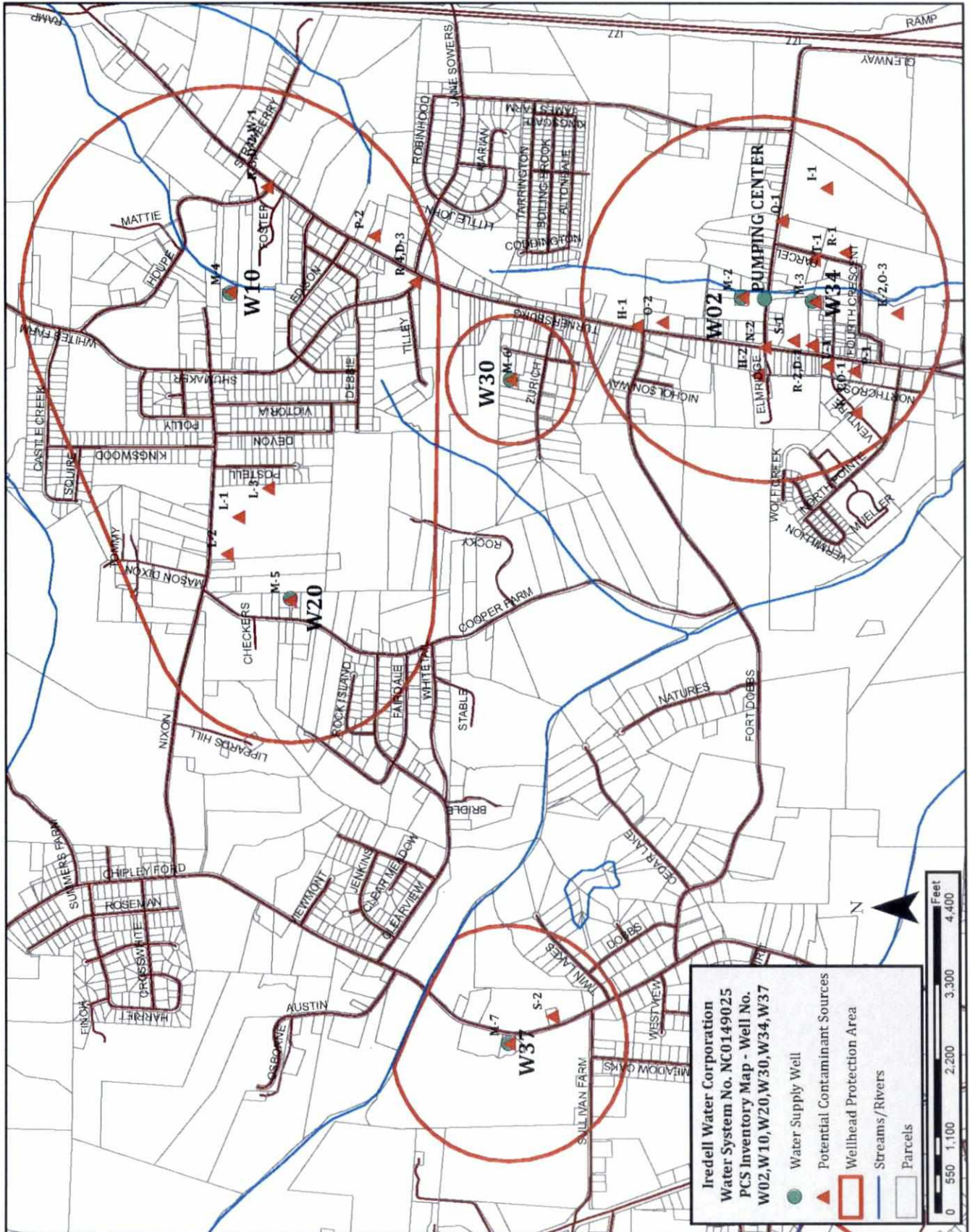
**Table 8. Potential Contaminant Source Inventory - Well No. W30**

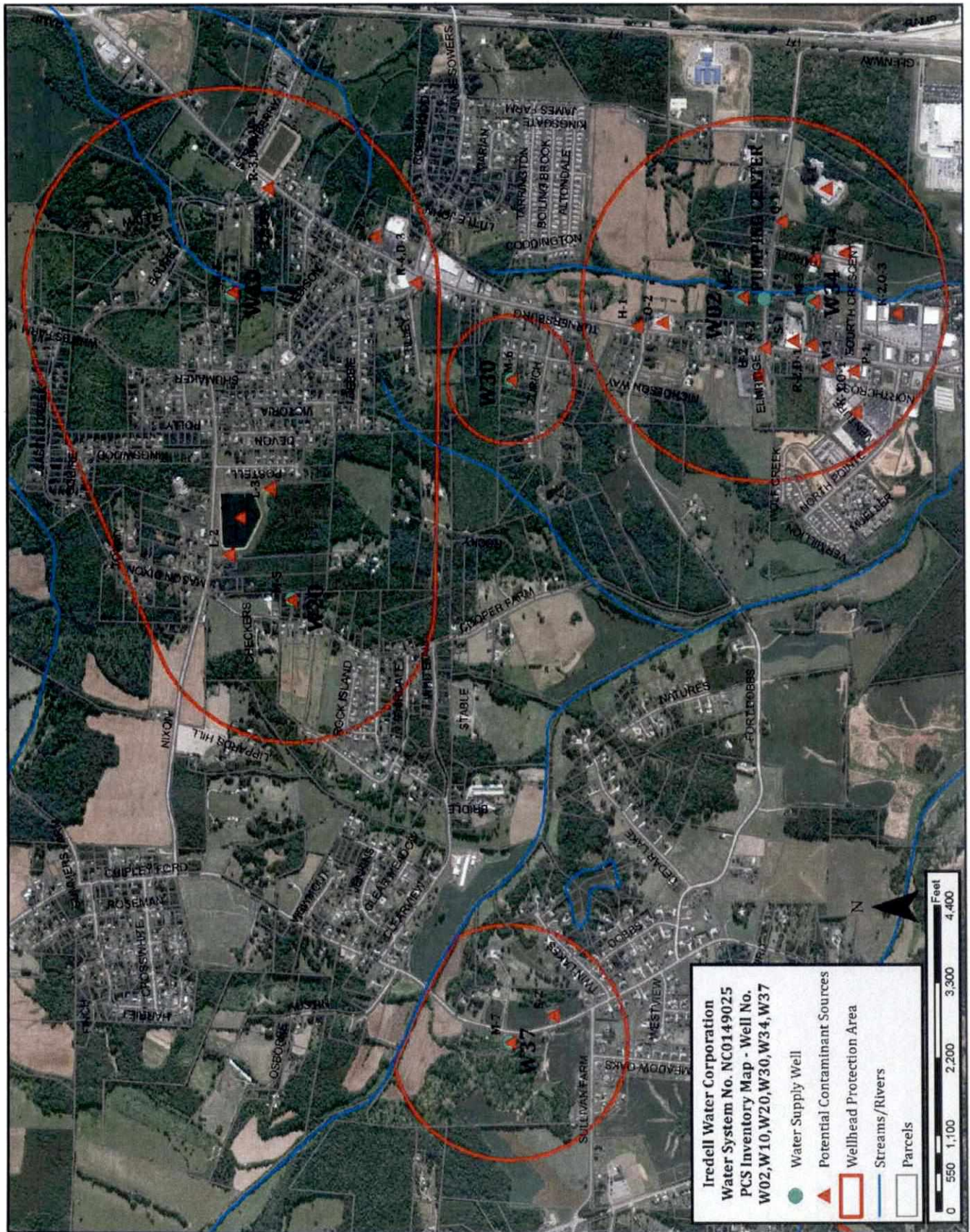
PCS Category	Map Code	PCS Site	Physical Location
Water Supply Well	M-6	Well 30	121 Fairgate Dr. Statesville, NC 28625

**Table 9. Potential Contaminant Source Inventory - Well No. W37**

PCS Category	Map Code	PCS Site	Physical Location
Water Supply Well	M-7	Well 37	2273 S. Chipley Ford Rd. Statesville, NC 28625
Medical/Dental/Clinic/Vet	S-2	McGrew Chiropractic	2238 S. Chipley Ford Rd. Statesville, NC 28625



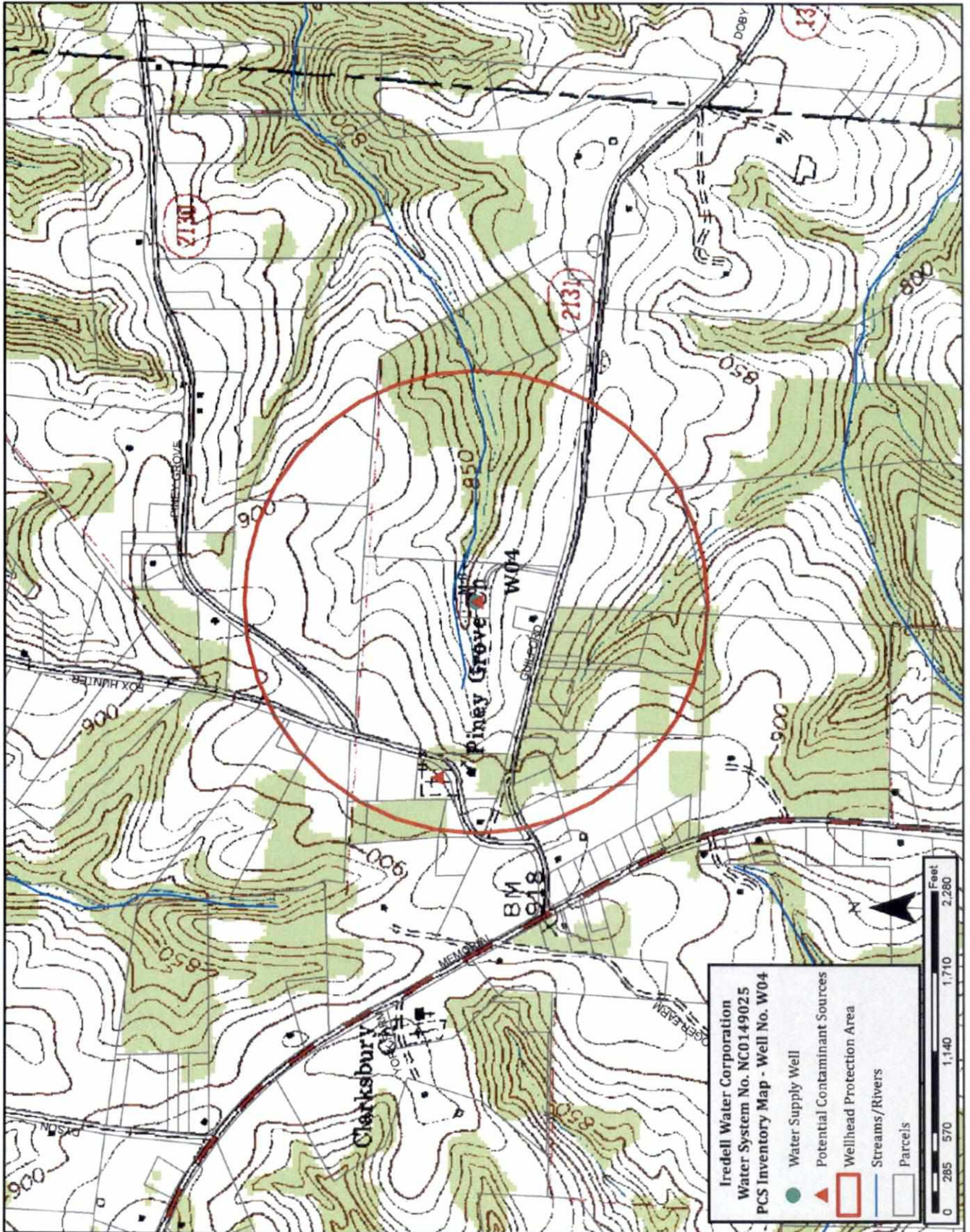


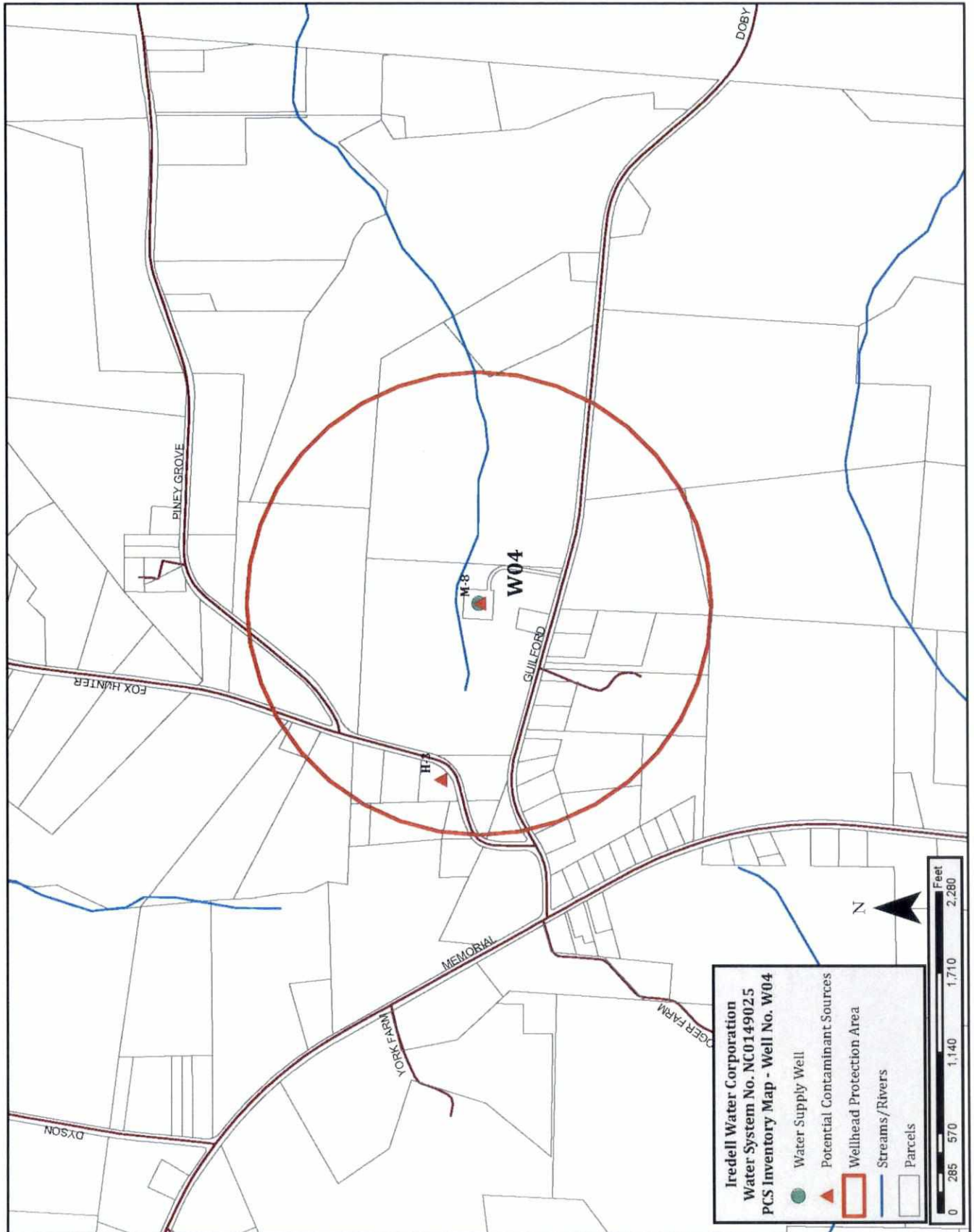


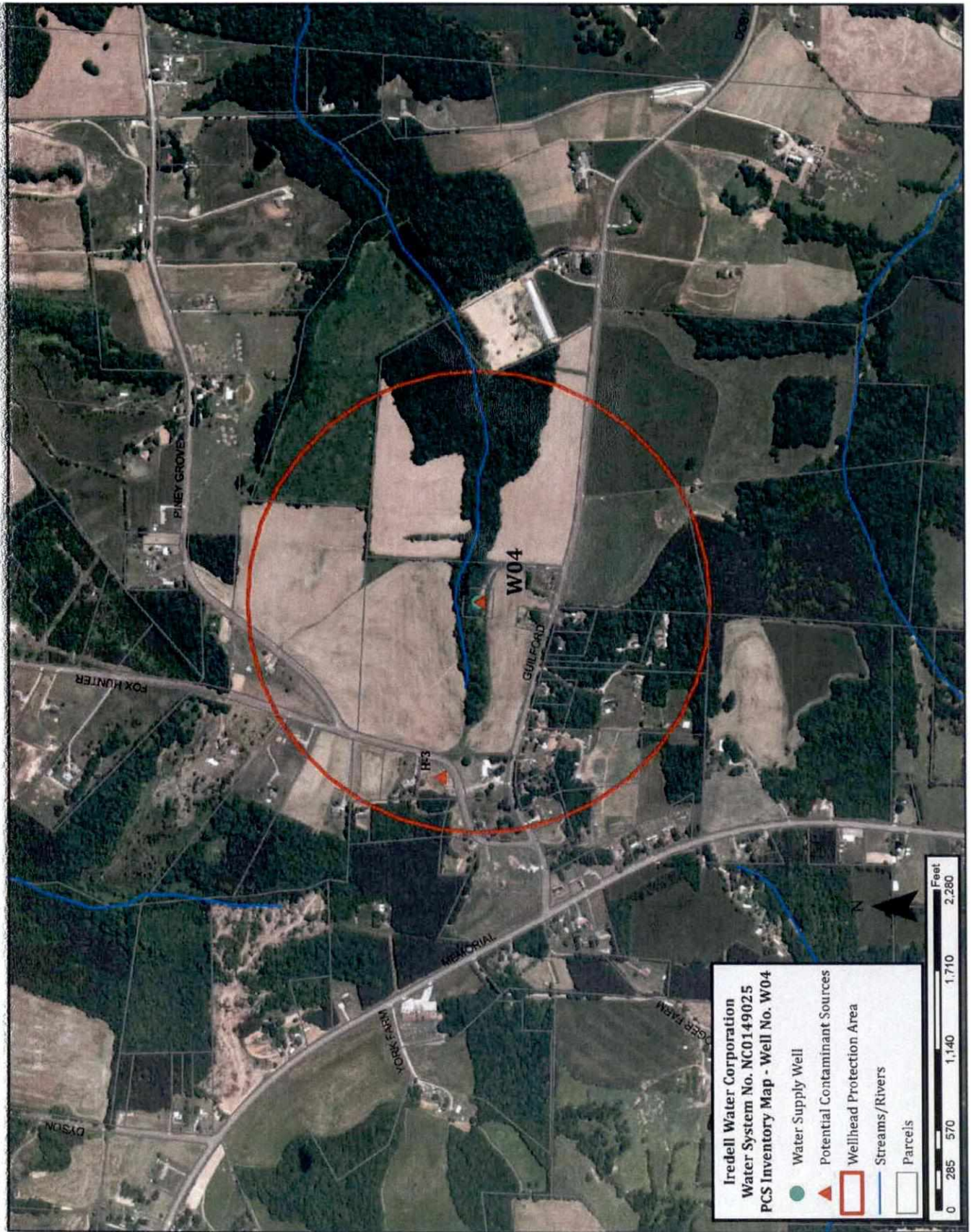
**Table 10. Potential Contaminant Source Inventory - Well No. W04**

<b>PCS Category</b>	<b>Map Code</b>	<b>PCS Site</b>	<b>Physical Location</b>
Church/Cemetery	H-3	Piney Grove AME Zion Church Cemetery	145 Fox Hunter Rd. Harmony, NC 28634
Water Supply Well	M-8	Well 4	209 Guilford Rd. Harmony, NC 28634







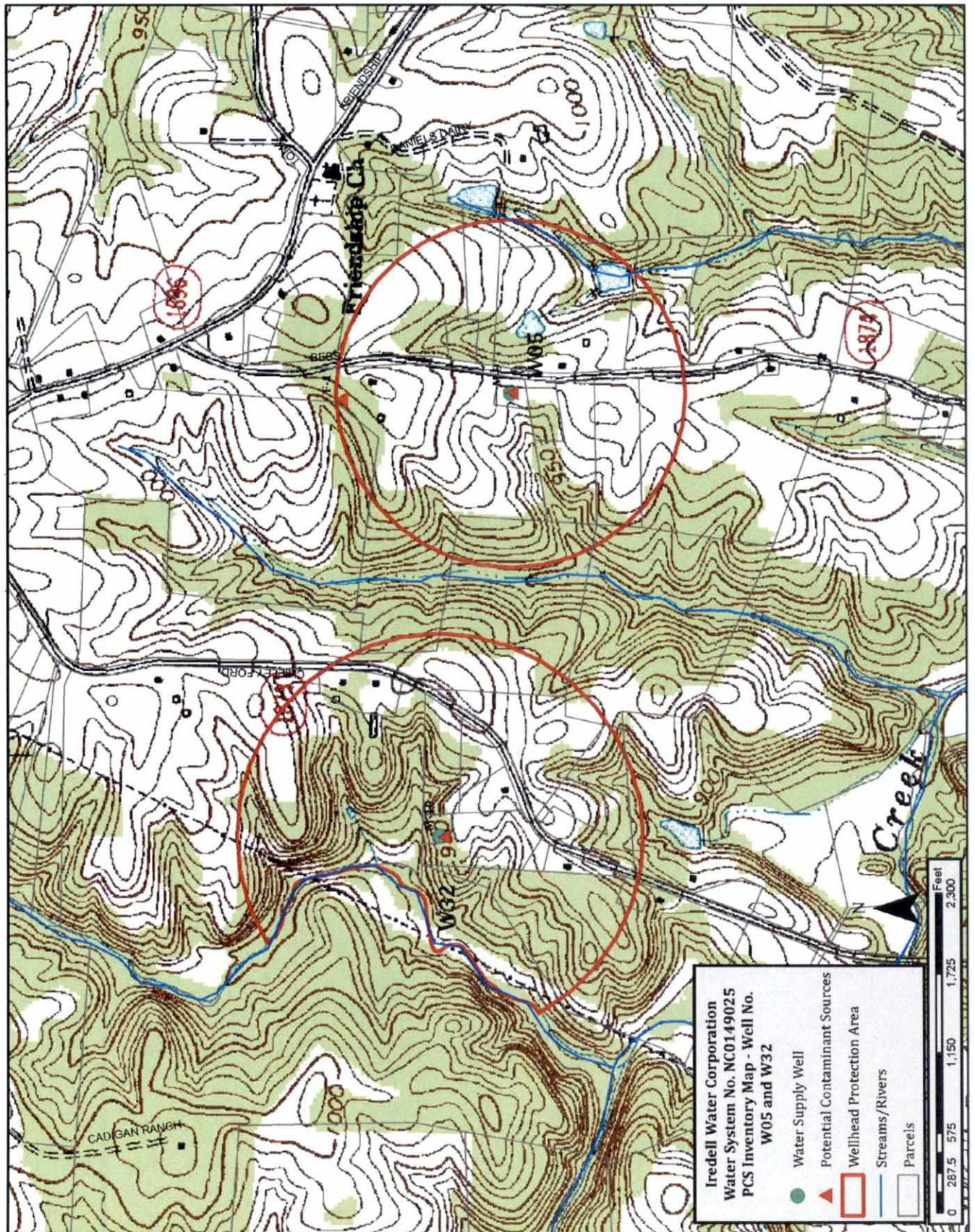


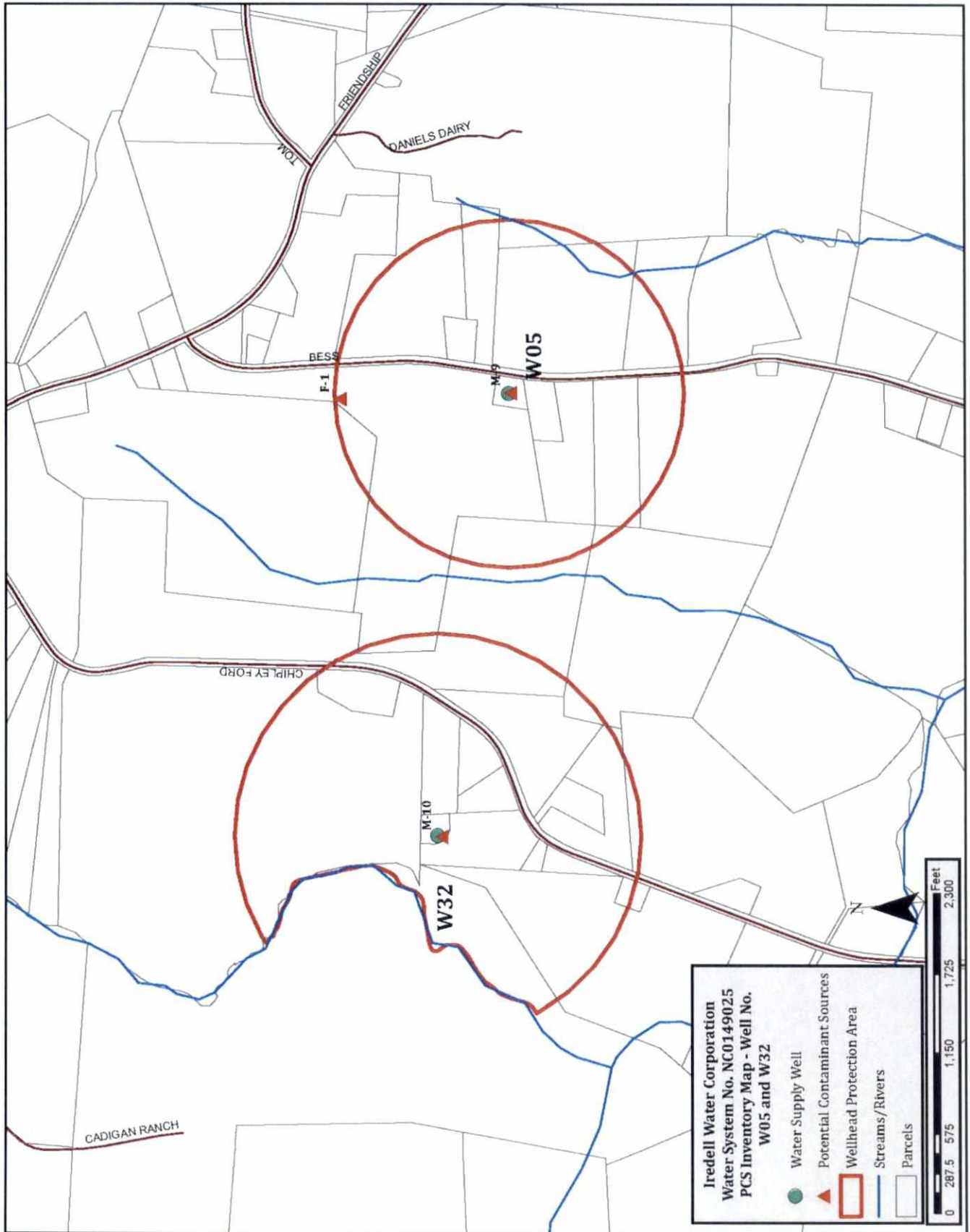
**Table 11. Potential Contaminant Source Inventory - Well No. W05**

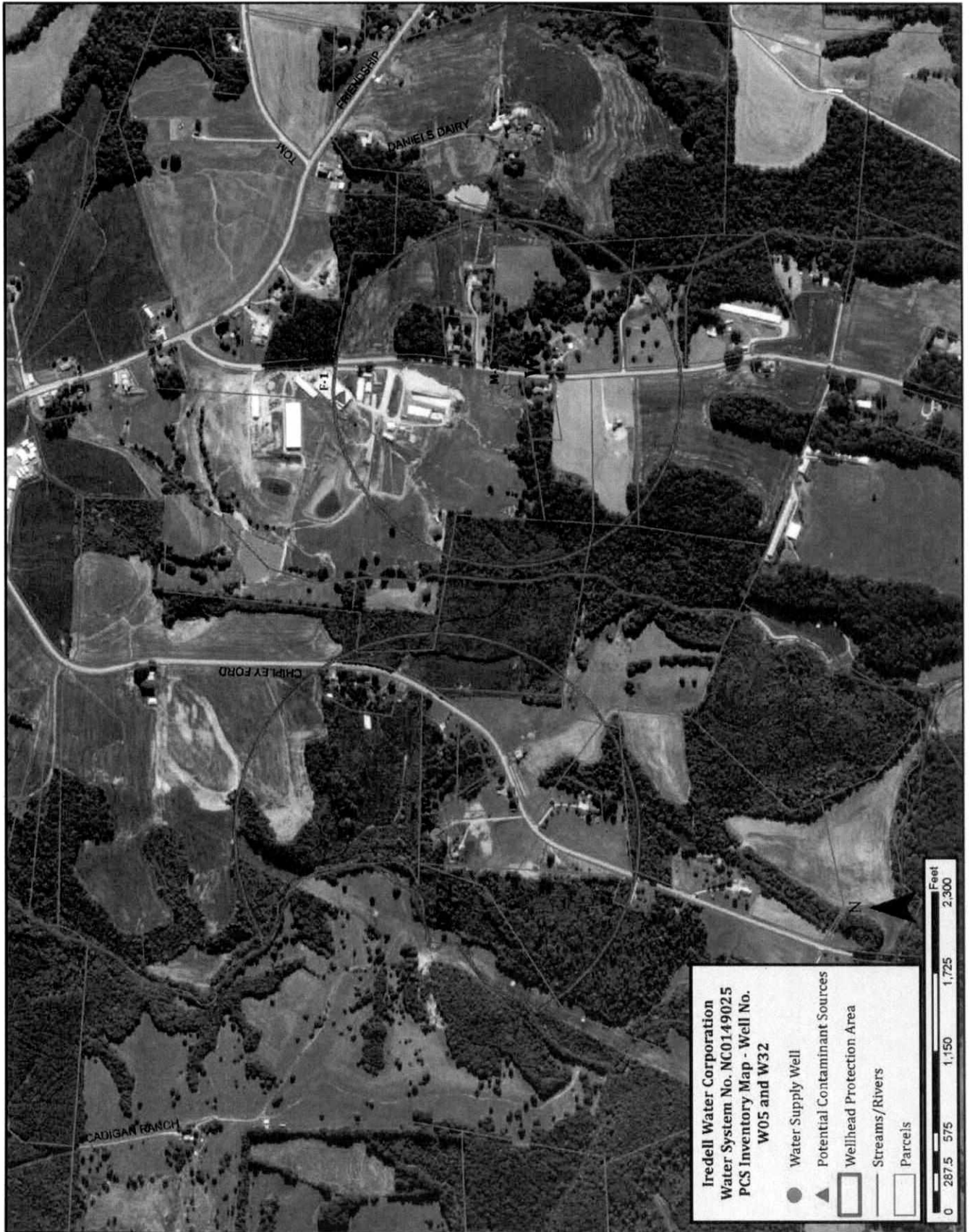
<b>PCS Category</b>	<b>Map Code</b>	<b>PCS Site</b>	<b>Physical Location</b>
Dairy Farm	F-1	GGG Farms	635 Bess Rd. Statesville, NC 28625
Water Supply Well	M-9	Well 5	531 Bess Rd. Statesville, NC 28625

**Table 12. Potential Contaminant Source Inventory - Well No. W32**

<b>PCS Category</b>	<b>Map Code</b>	<b>PCS Site</b>	<b>Physical Location</b>
Water Supply Well	M-10	Well 32	781 N. Chipley Ford Rd. Statesville, NC 28625



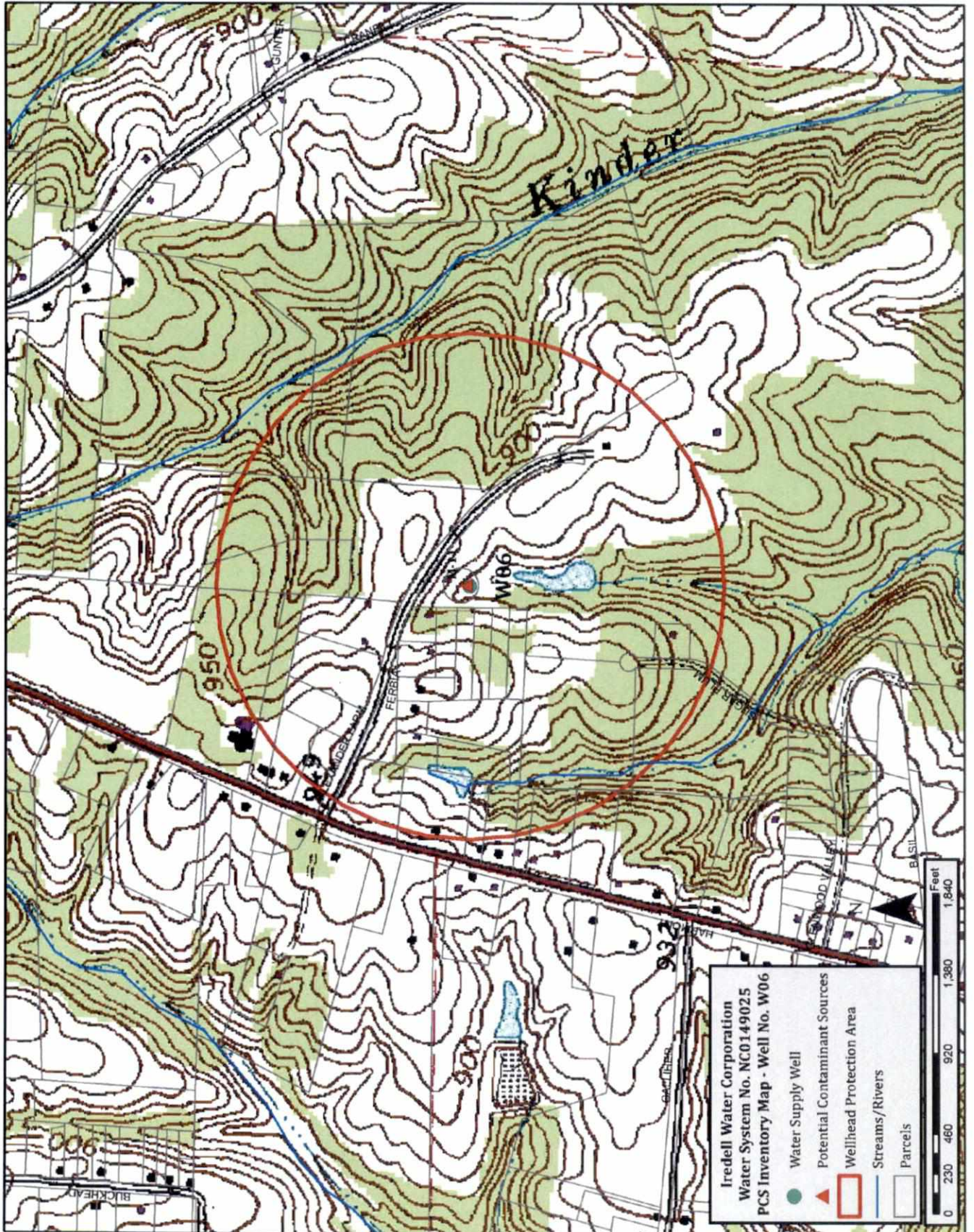


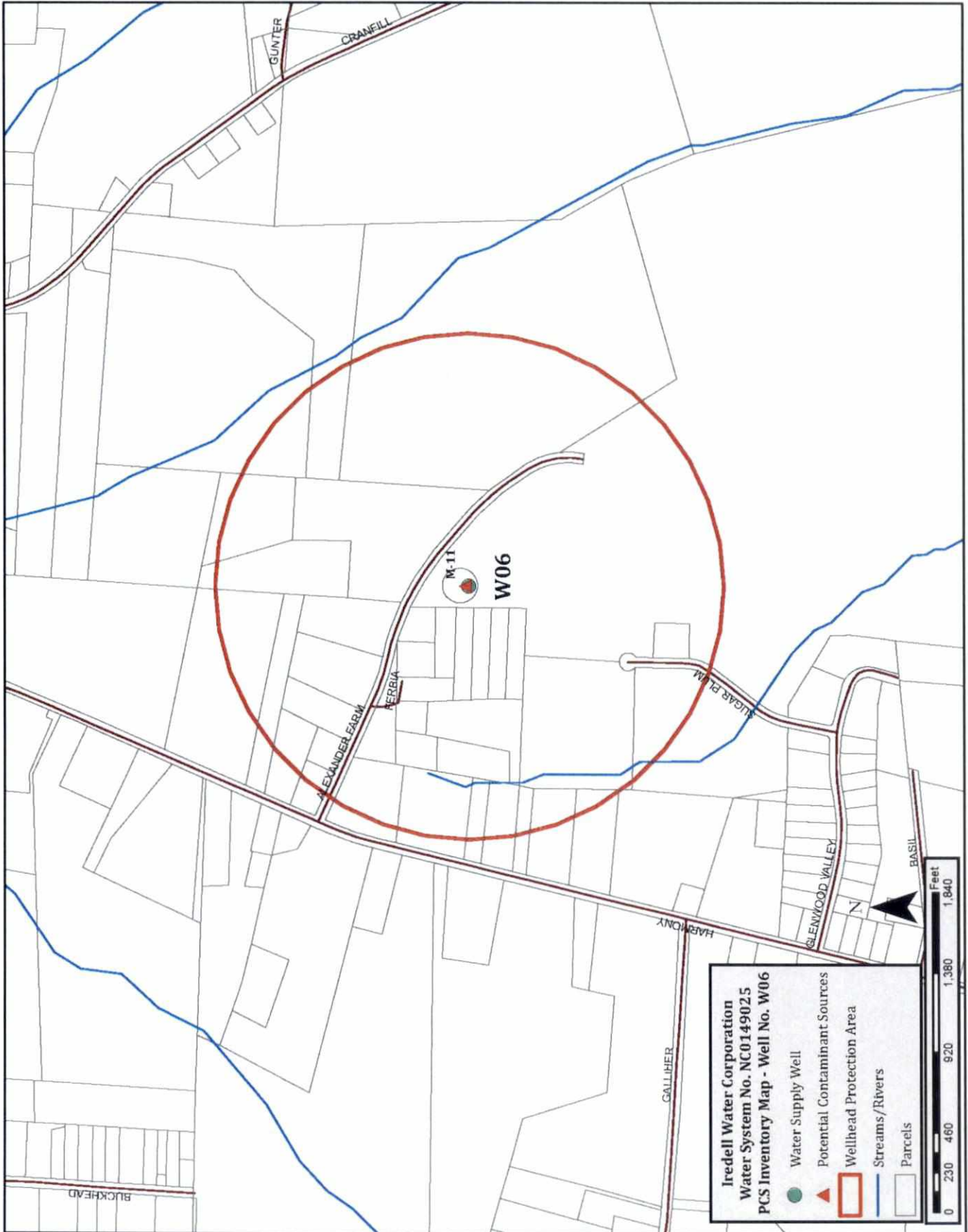


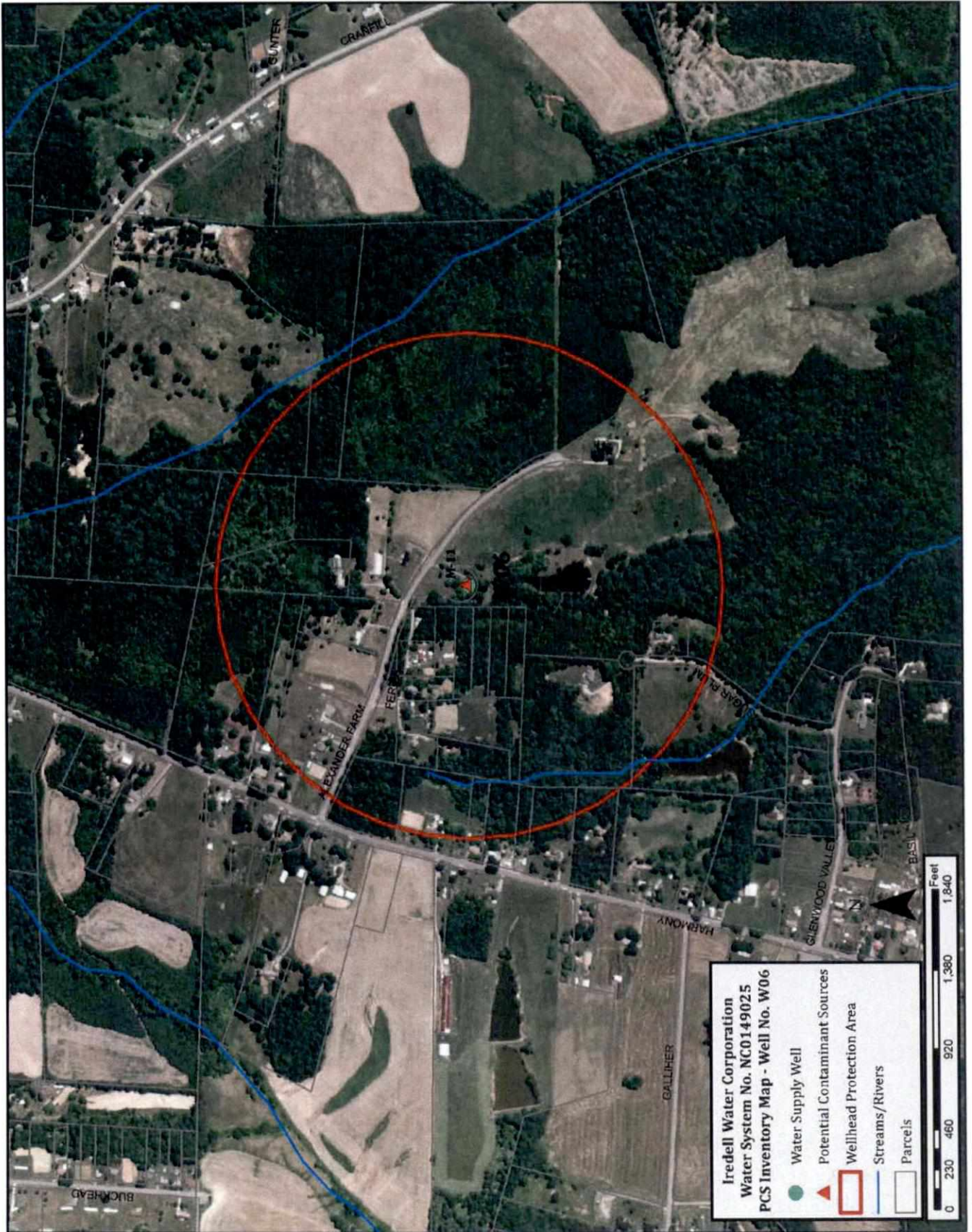
**Table 13. Potential Contaminant Source Inventory - Well No. W06**

PCS Category	Map Code	PCS Site	Physical Location
Water Supply Well	M-11	Well 6	176 Alexander Farm Rd. Harmony, NC 28634



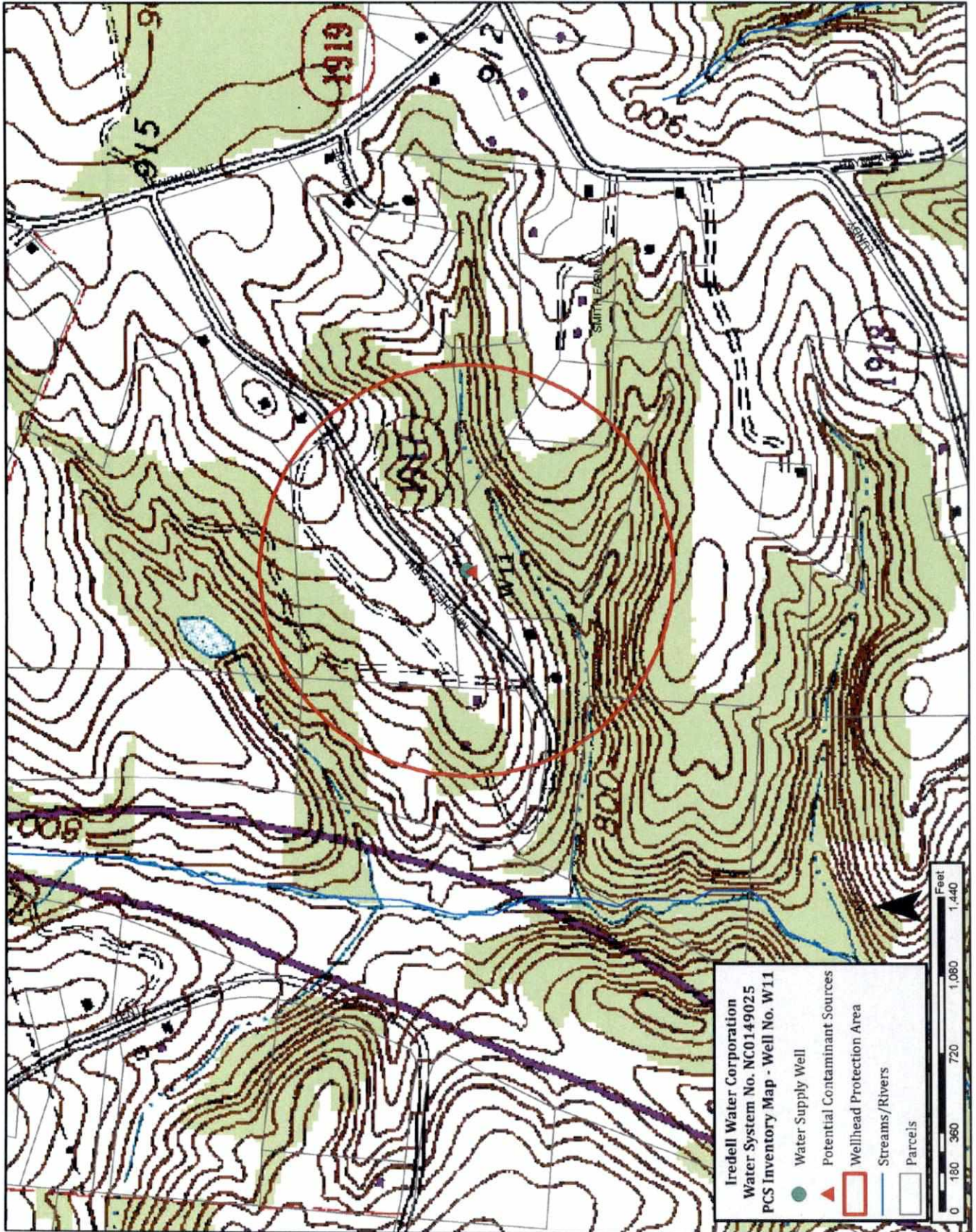


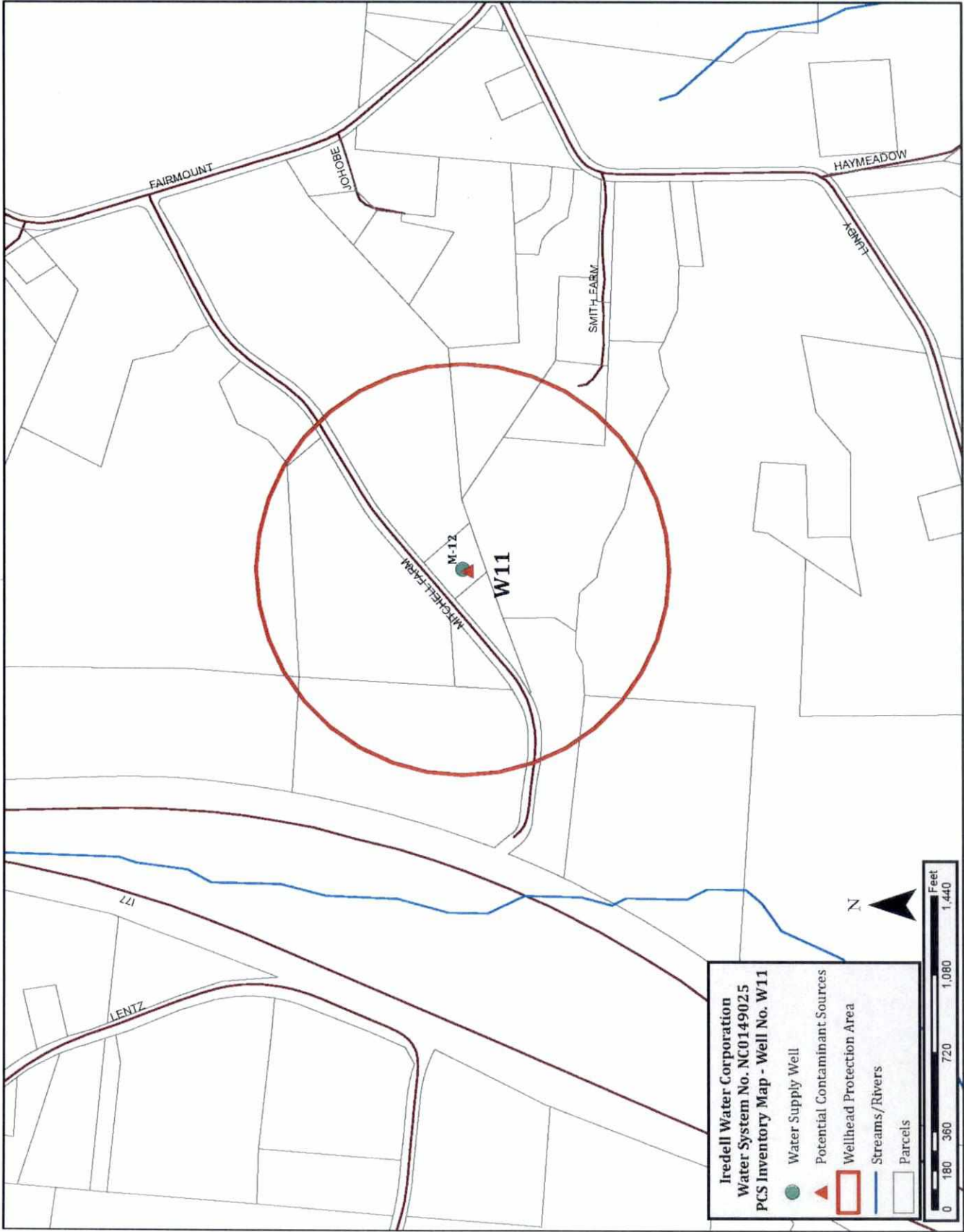




**Table 14. Potential Contaminant Source Inventory - Well No. W11**

PCS Category	Map Code	PCS Site	Physical Location
Water Supply Well	M-12	Well 11	199 Mitchell Farm Rd. Statesville, NC 28625



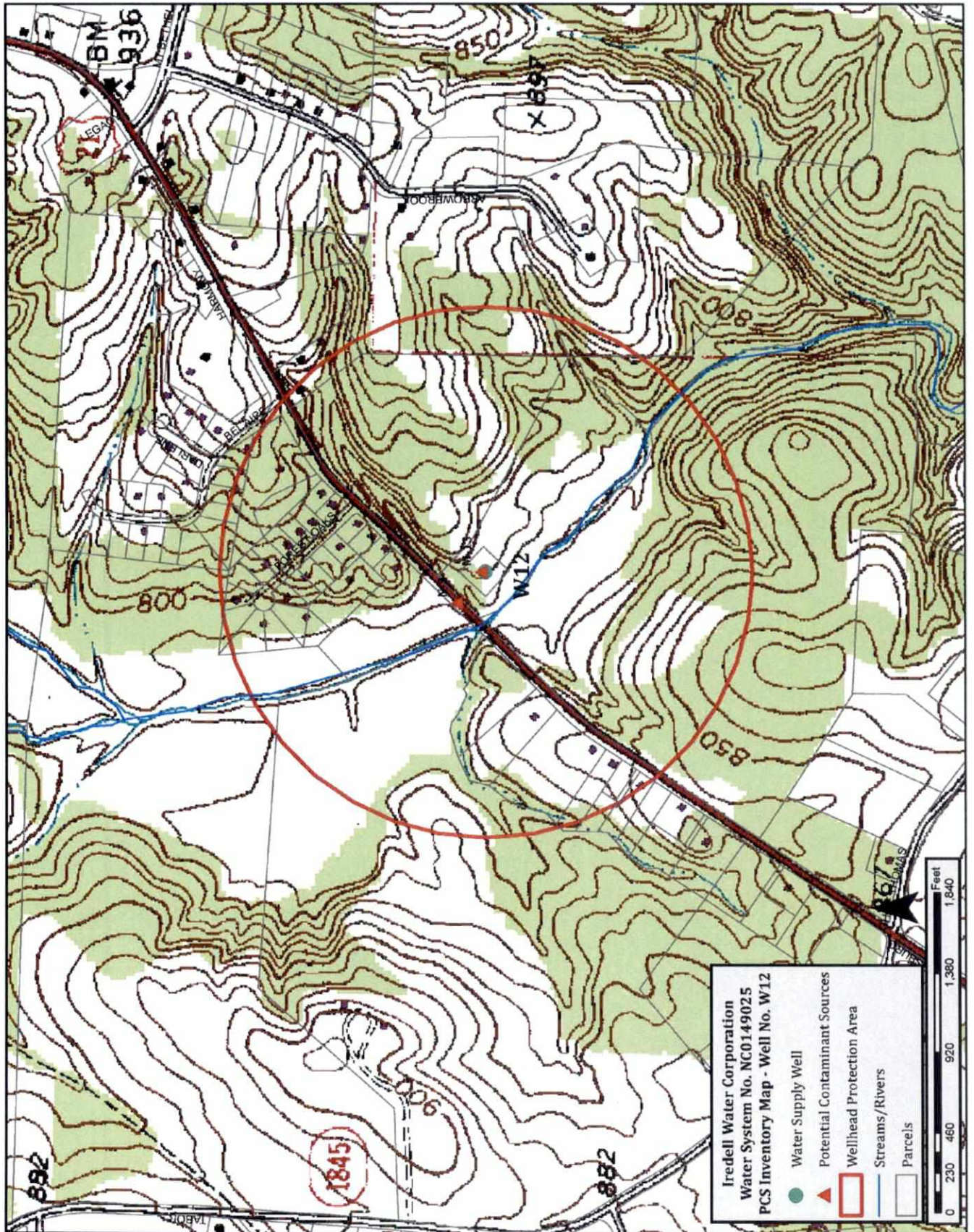


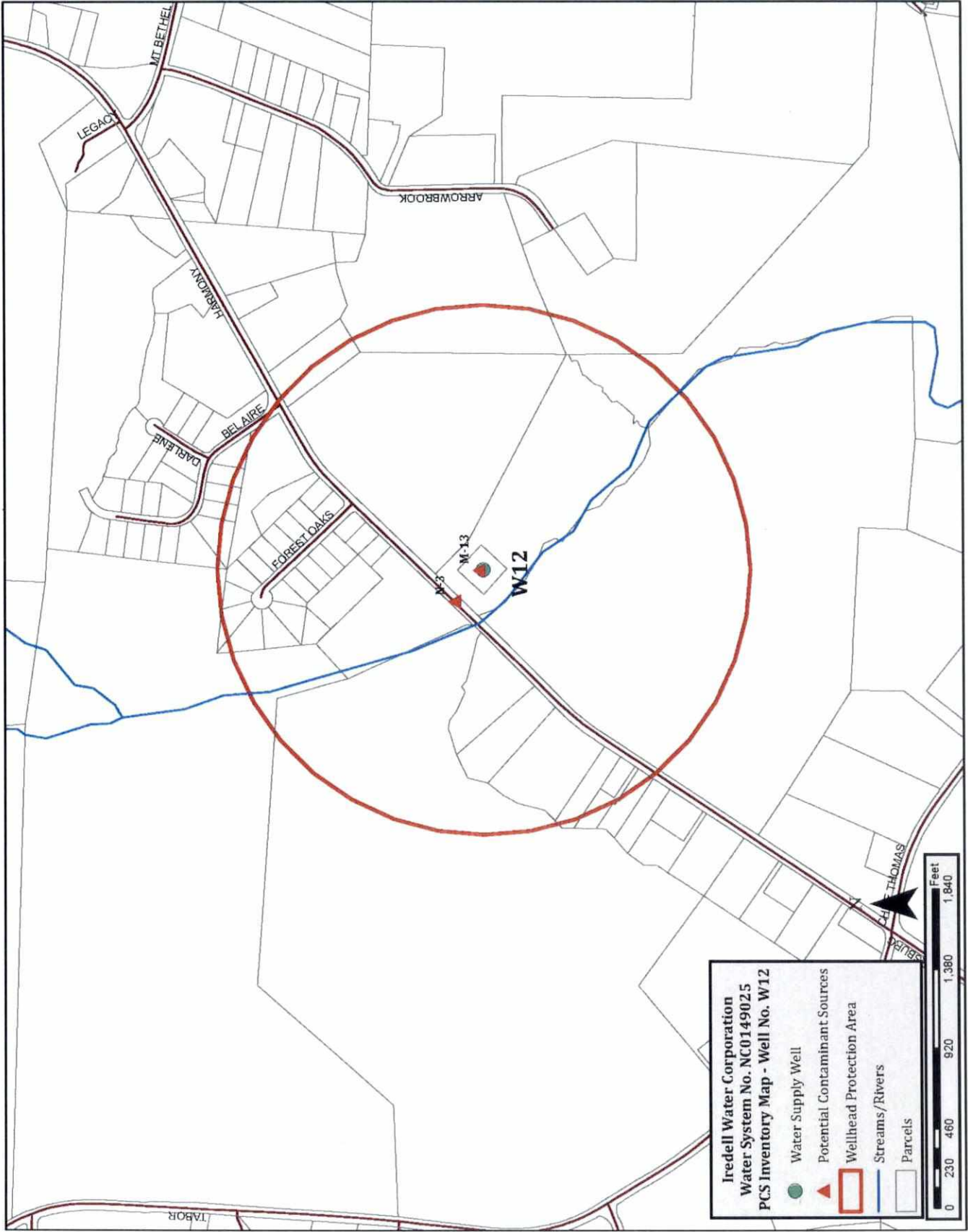


**Table 15. Potential Contaminant Source Inventory - Well No. W12**

PCS Category	Map Code	PCS Site	Physical Location
Water Supply Well	M-13	Well 12	2730 Harmony Hwy. Harmony, NC 28634
Transporation Corridor	N-3	Hwy US 21	Hwy US 21



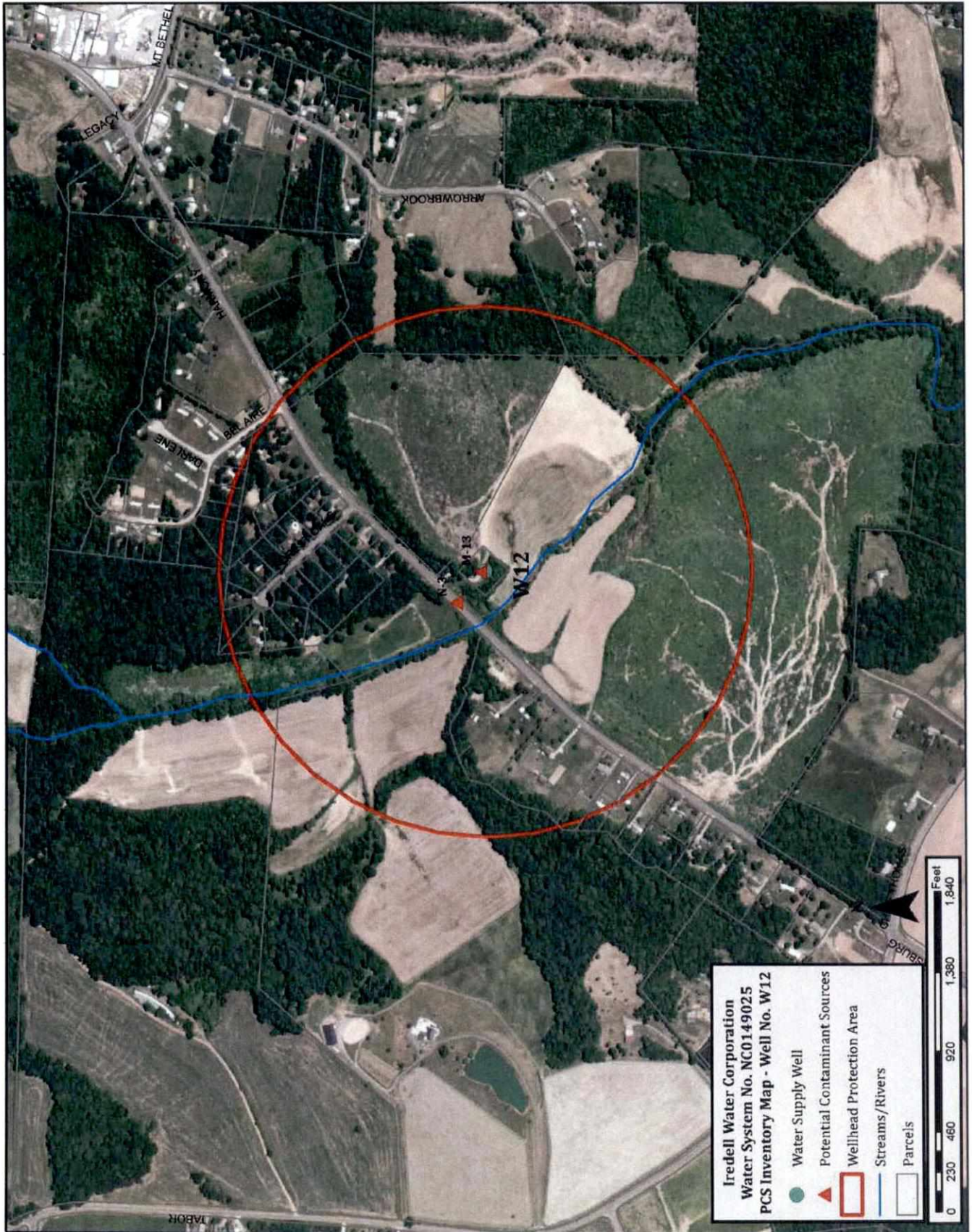




**Iredell Water Corporation**  
**Water System No. NC0149025**  
**PCS Inventory Map - Well No. W12**

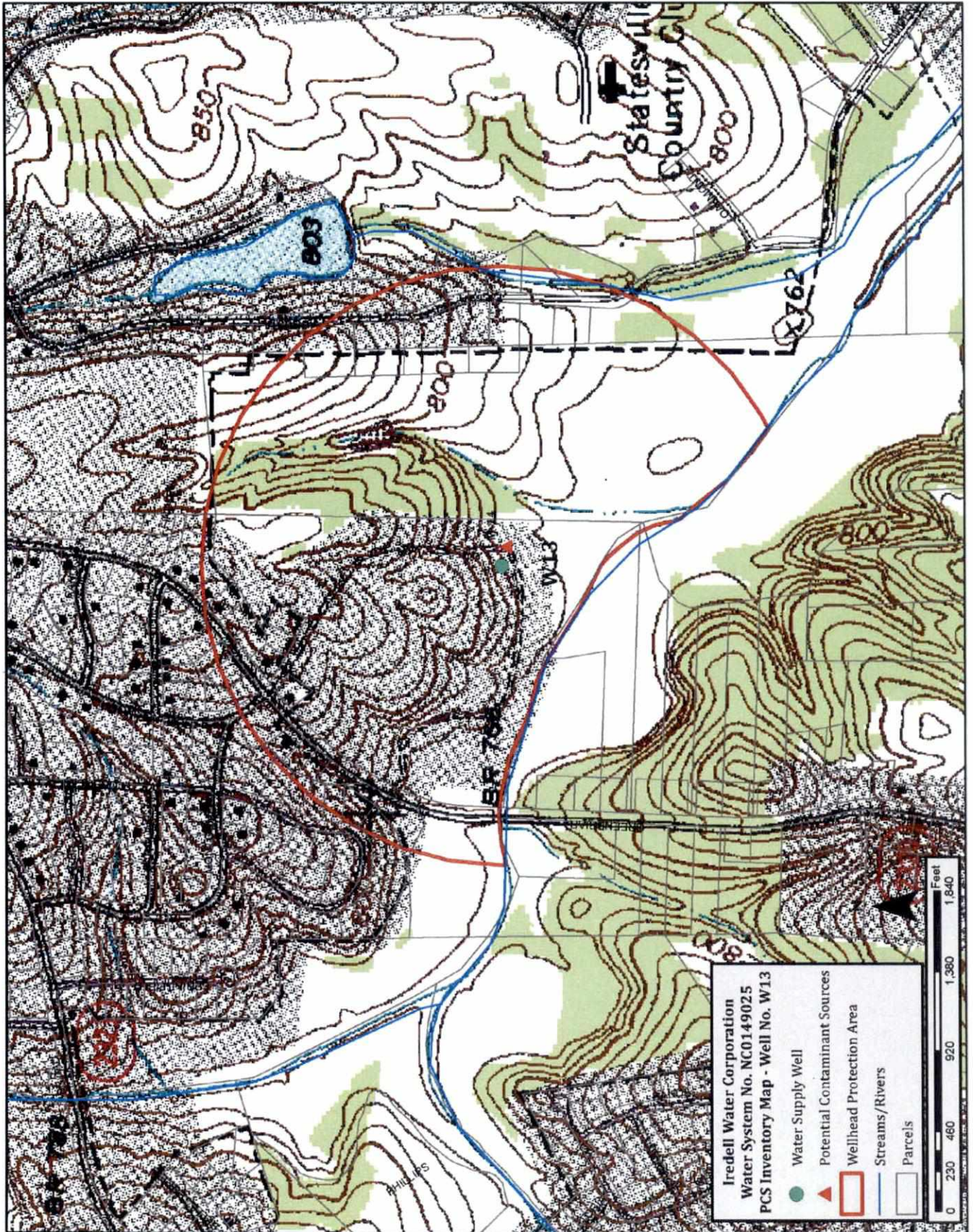
- Water Supply Well
- ▲ Potential Contaminant Sources
- Wellhead Protection Area
- Streams/Rivers
- Parcels

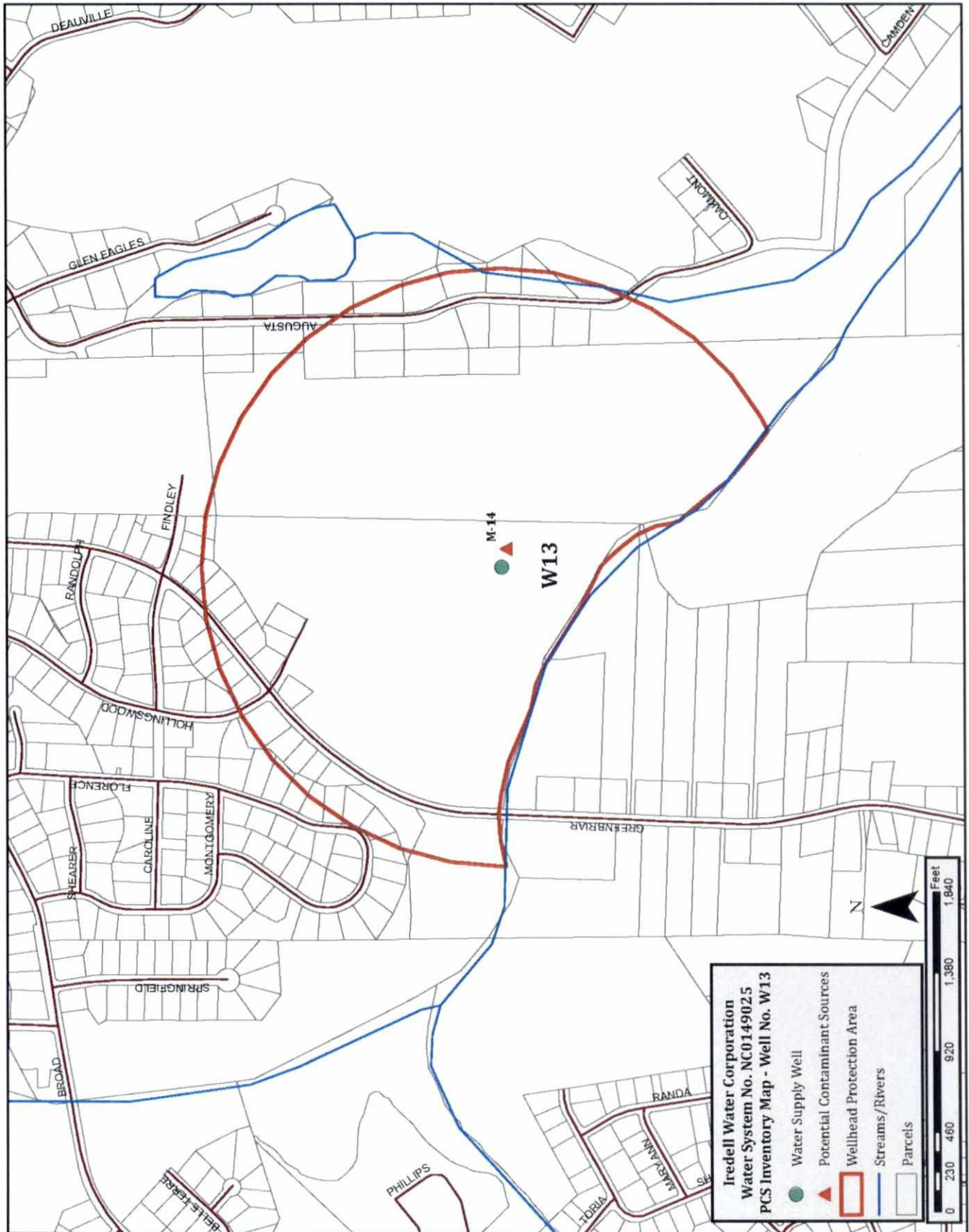


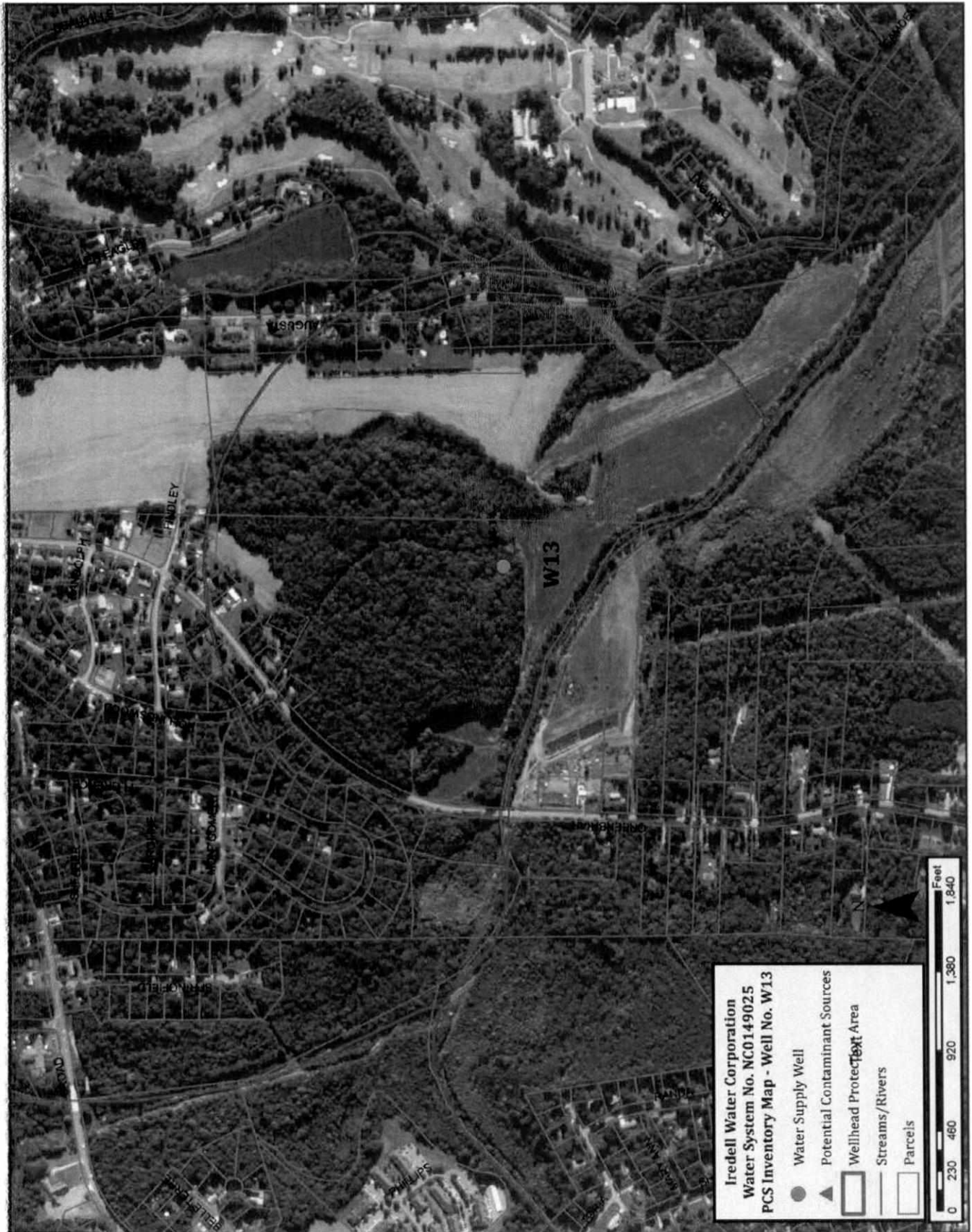


**Table 16. Potential Contaminant Source Inventory - Well No. W13**

PCS Category	Map Code	PCS Site	Physical Location
Water Supply Well	M-14	Well 13	351 S. Greenbriar Rd. Statesville, NC 28625







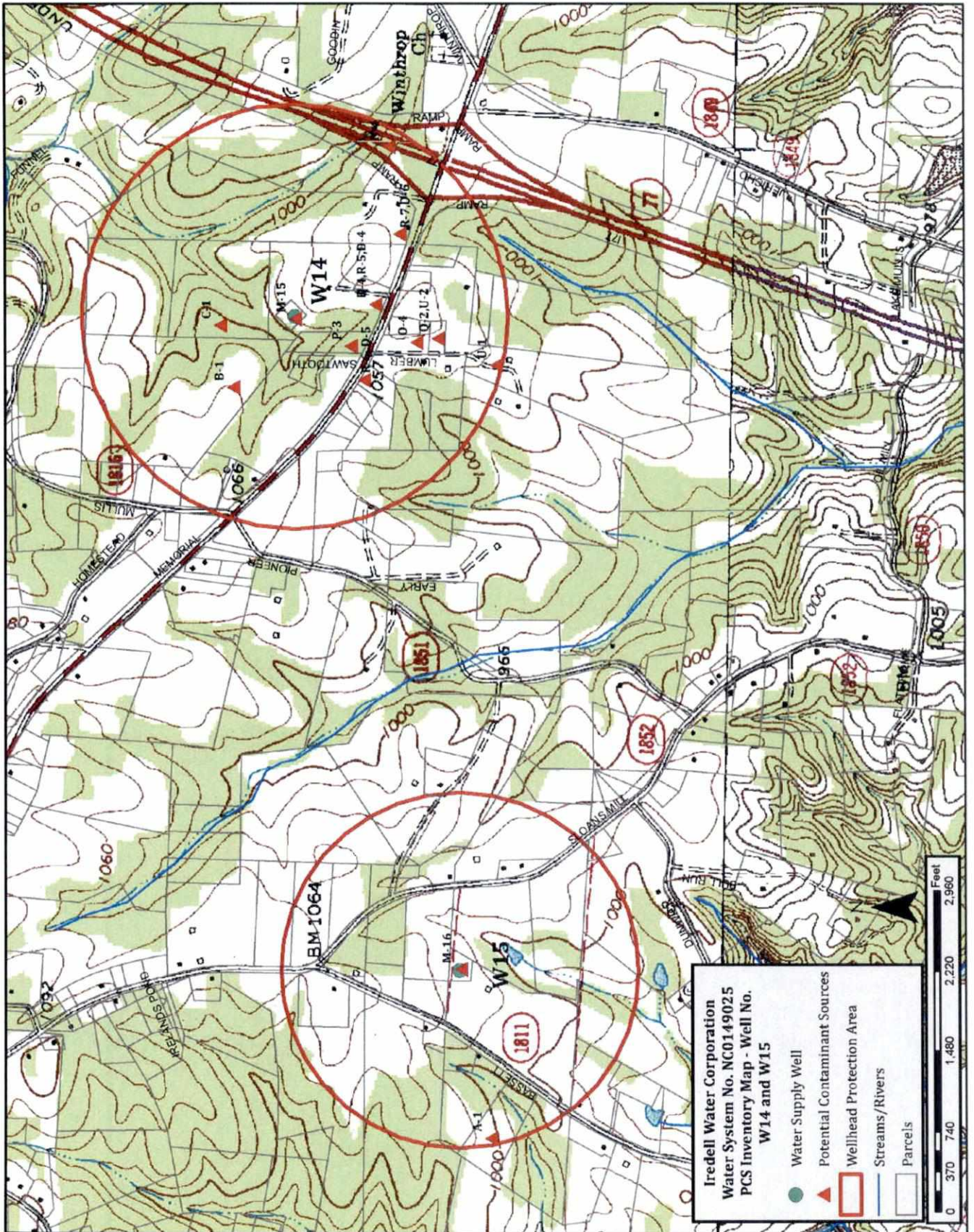
**Table 17. Potential Contaminant Source Inventory - Well No. W14**

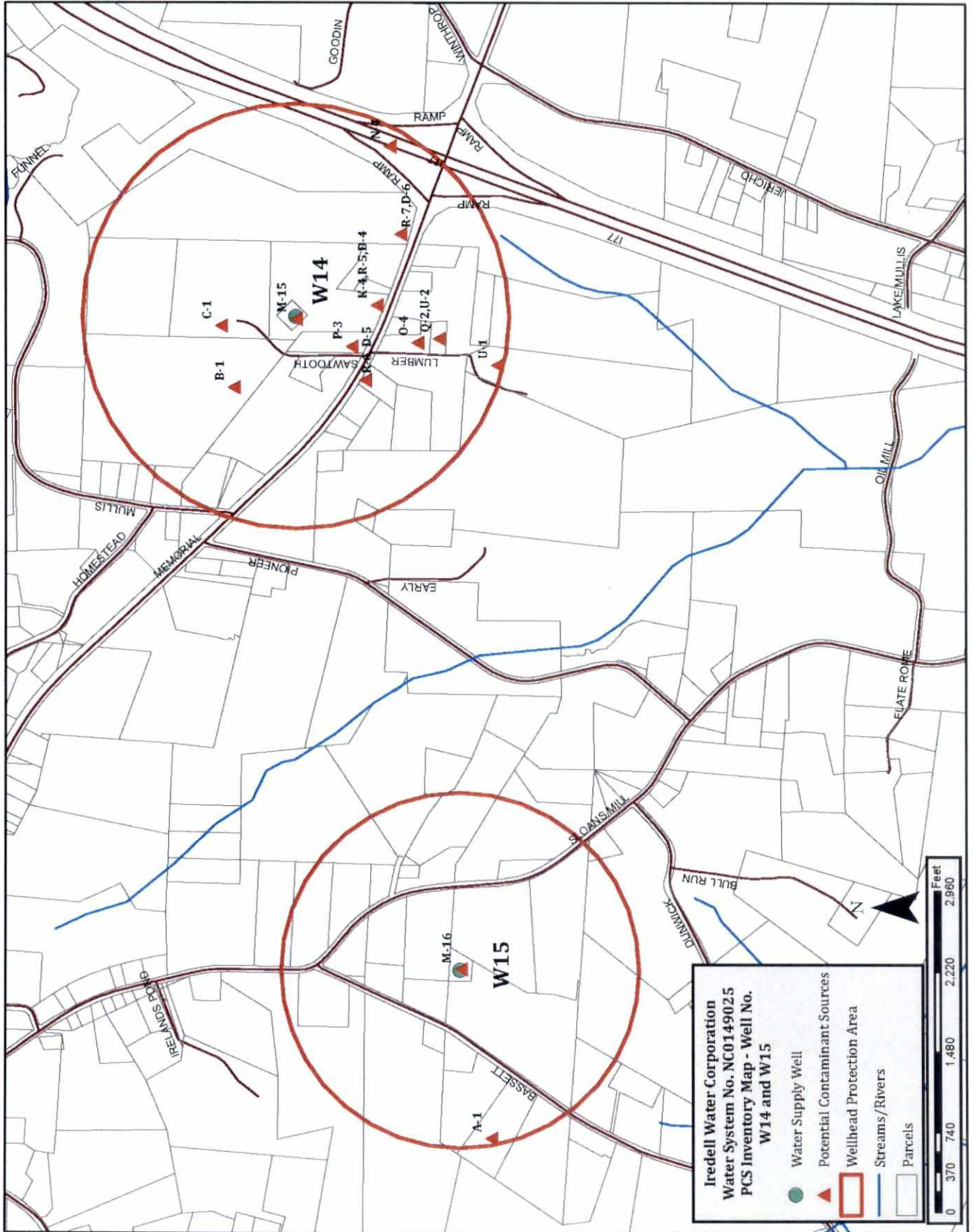
PCS Category	Map Code	PCS Site	Physical Location
Poultry Operation (Abandoned)	B-1	Joseph K. Edmisten	135 Sawtooth Lane Harmony, NC 28689
Machine Shop	C-1	Union Grove Saw & Knife, Inc.	157 Sawtooth Ln. Union Grove, NC 28689
Gas Station	D-4	7-Eleven #36075	1460 W. Memorial Hwy. Harmony, NC 28634
Gas Station	D-5	Union Grove Quick Stop	1489 W. Memorial Hwy. Harmony, NC 28634
Gas Station	D-6	Knight's BP	1422 W. Memorial Hwy. Harmony, NC 28634
Tier II Site	K-4	7-Eleven #36075	1460 W. Memorial Hwy. Harmony, NC 28634
Water Supply Well	M-15	Well 14	1470 W. Memorial Hwy. Harmony, NC 28634
Transportation Corridor	N-4	Hwy 77	Hwy 77
Hardware Store	O-4	Ace Hardware	1475 W. Memorial Hwy. Union Grove, NC 28689
Auto Parts/Repair	P-3	Union Grove Tire & Auto	1478 W. Memorial Hwy. Harmony, NC 28634
Above Ground Storage Tank	Q-2	Union Grove Lumber	131 Lumber Drive Harmony, NC 28634
Underground Storage Tank	R-5	7-Eleven #36075	1460 W. Memorial Hwy. Harmony, NC 28634
Underground Storage Tank	R-6	Union Grove Quick Stop	1489 W. Memorial Hwy. Harmony, NC 28634
Underground Storage Tank	R-7	Knight's BP	1422 W. Memorial Hwy. Harmony, NC 28634
Wood Processing	U-1	G & G Forest Products	179 Lumber Dr. Harmony, NC 28634
Wood Processing	U-2	Union Grove Lumber	131 Lumber Drive Harmony, NC 28634

**Table 18. Potential Contaminant Source Inventory - Well No. W15**

PCS Category	Map Code	PCS Site	Physical Location
Poultry Operation	A-1	Poultry Farm	385 Basset Rd. Olin, NC 28660
Water Supply Well	M-16	Well 15	430 Basset Rd. Olin, NC 28660



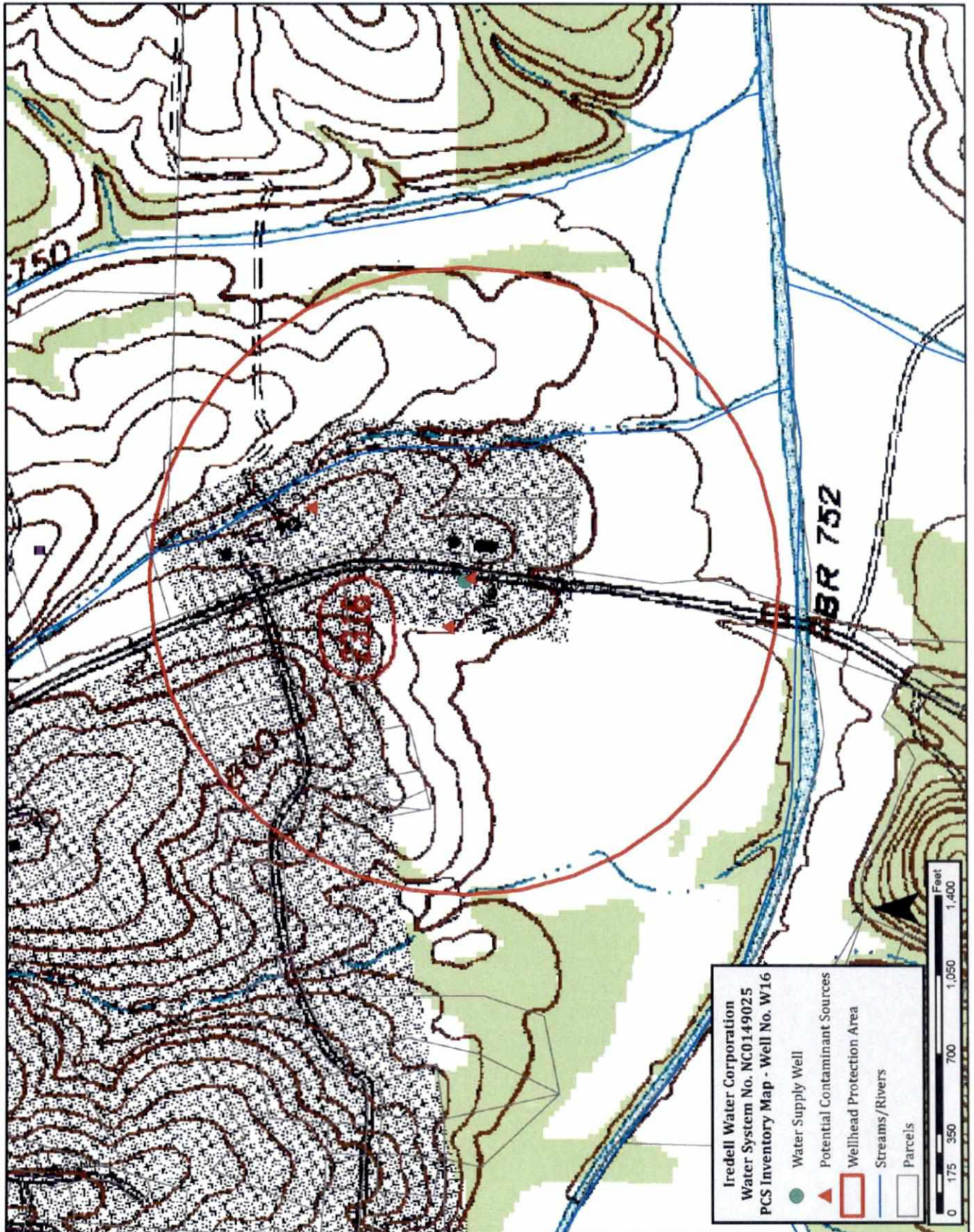


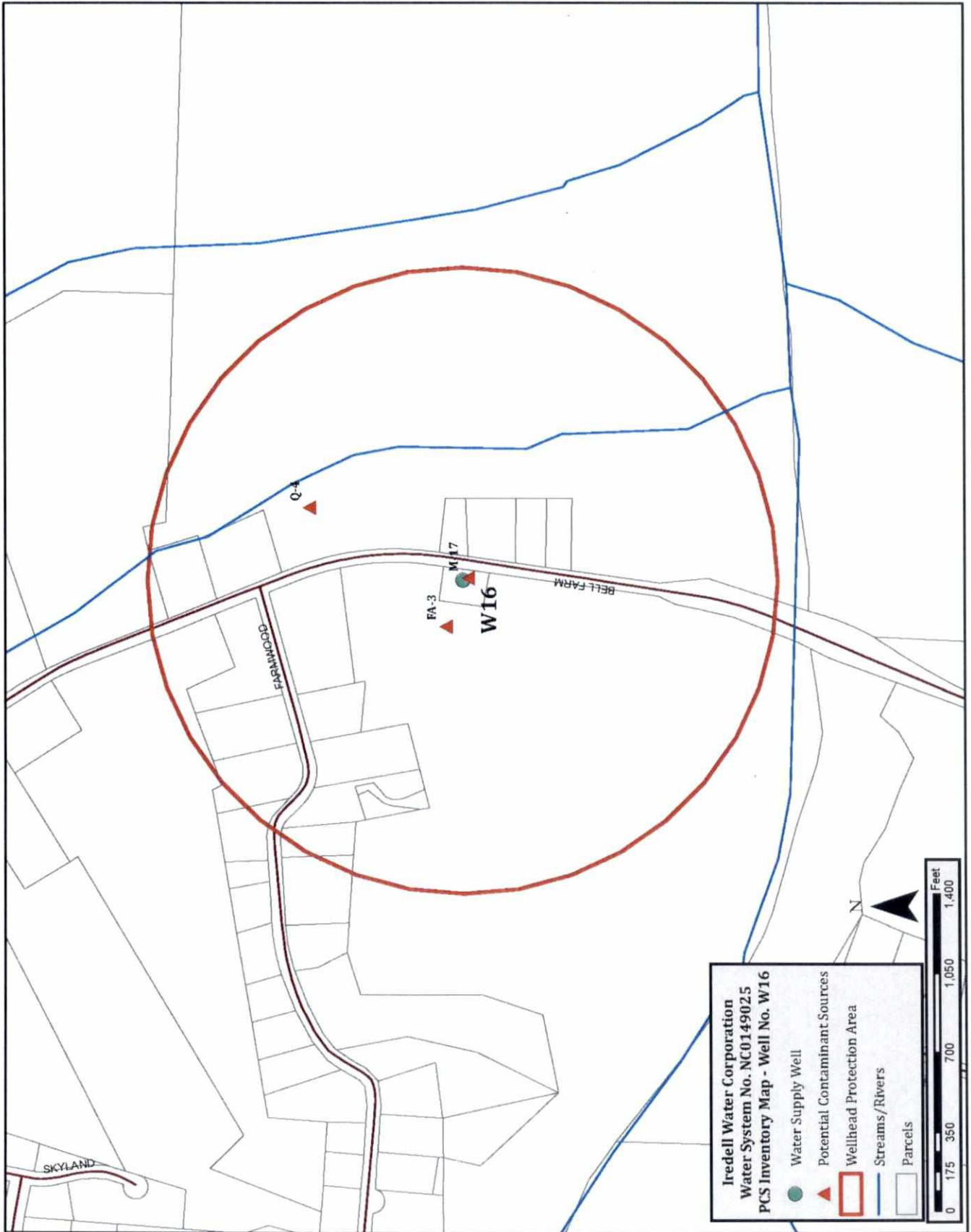


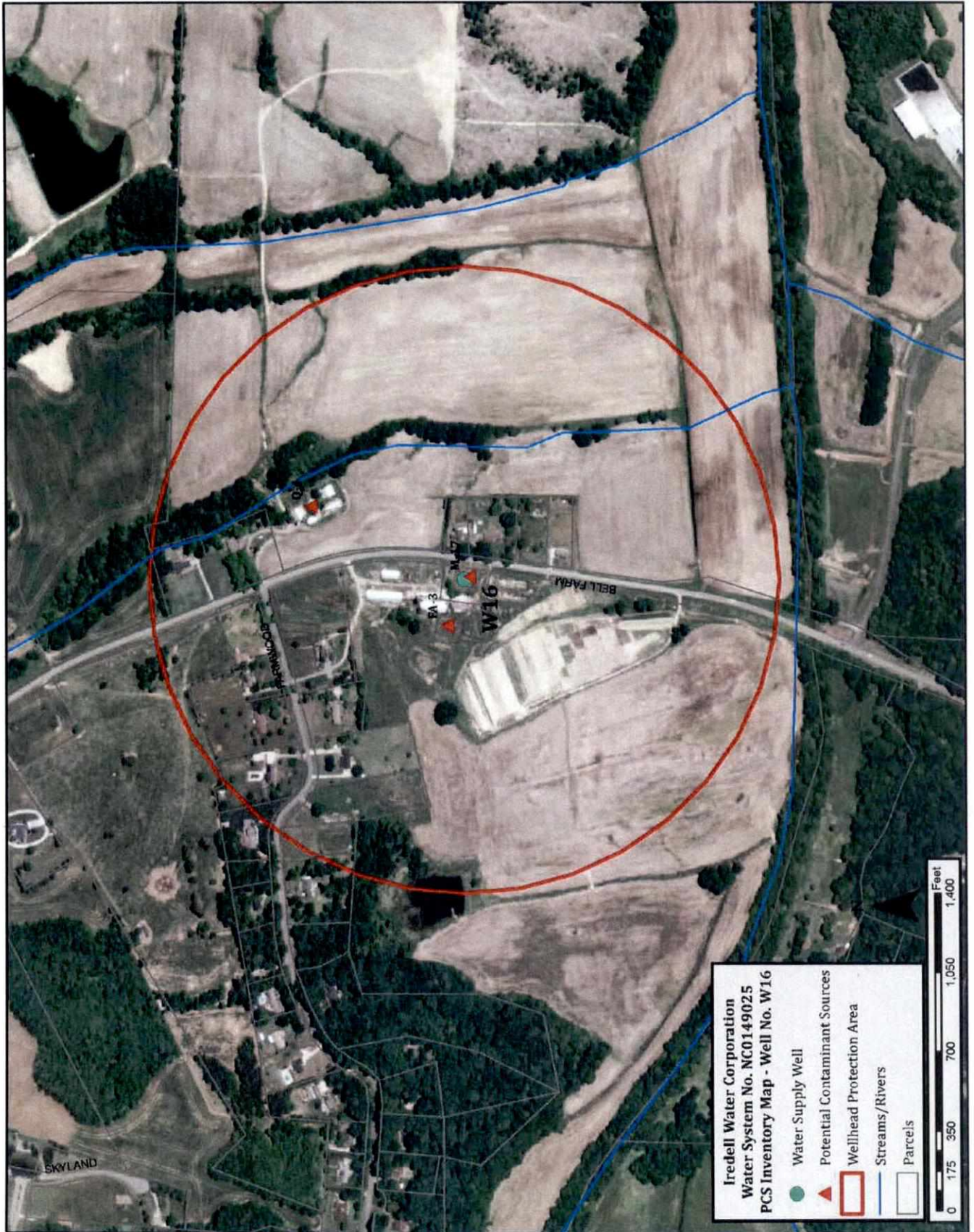


**Table 19. Potential Contaminant Source Inventory - Well No. W16**

<b>PCS Category</b>	<b>Map Code</b>	<b>PCS Site</b>	<b>Physical Location</b>
Abandoned Dairy Farm	FA-3	Burt Bell Farm	594 Bell Farm Rd. Statesville, NC 28625
Water Supply Well	M-17	Well 16	612 Bell Farm Rd. Statesville, NC 28625
AST	Q-4	Von Bell Farm	553 Bell Farm Rd. Statesville, NC 28625







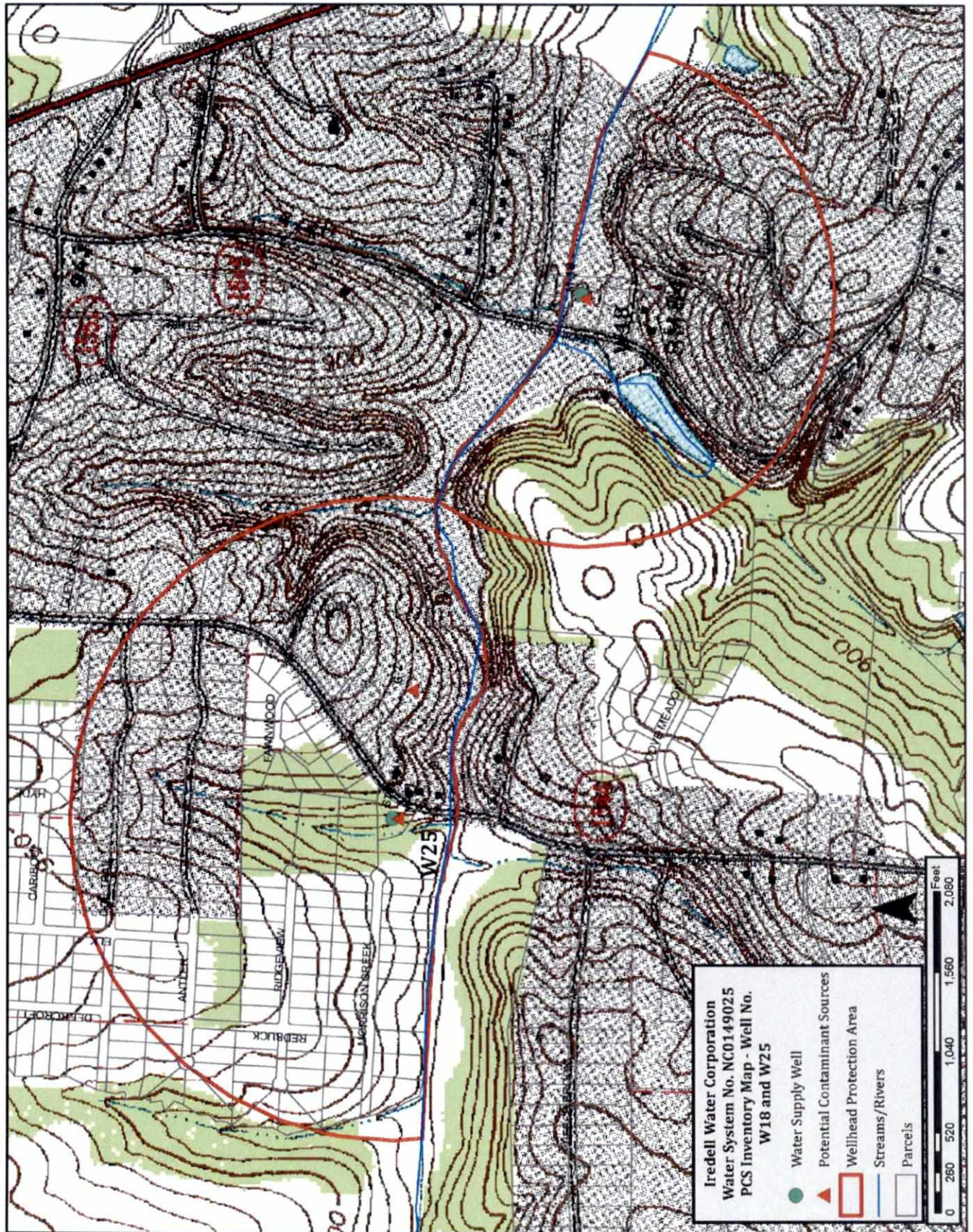
**Table 20. Potential Contaminant Source Inventory - Well No. W18**

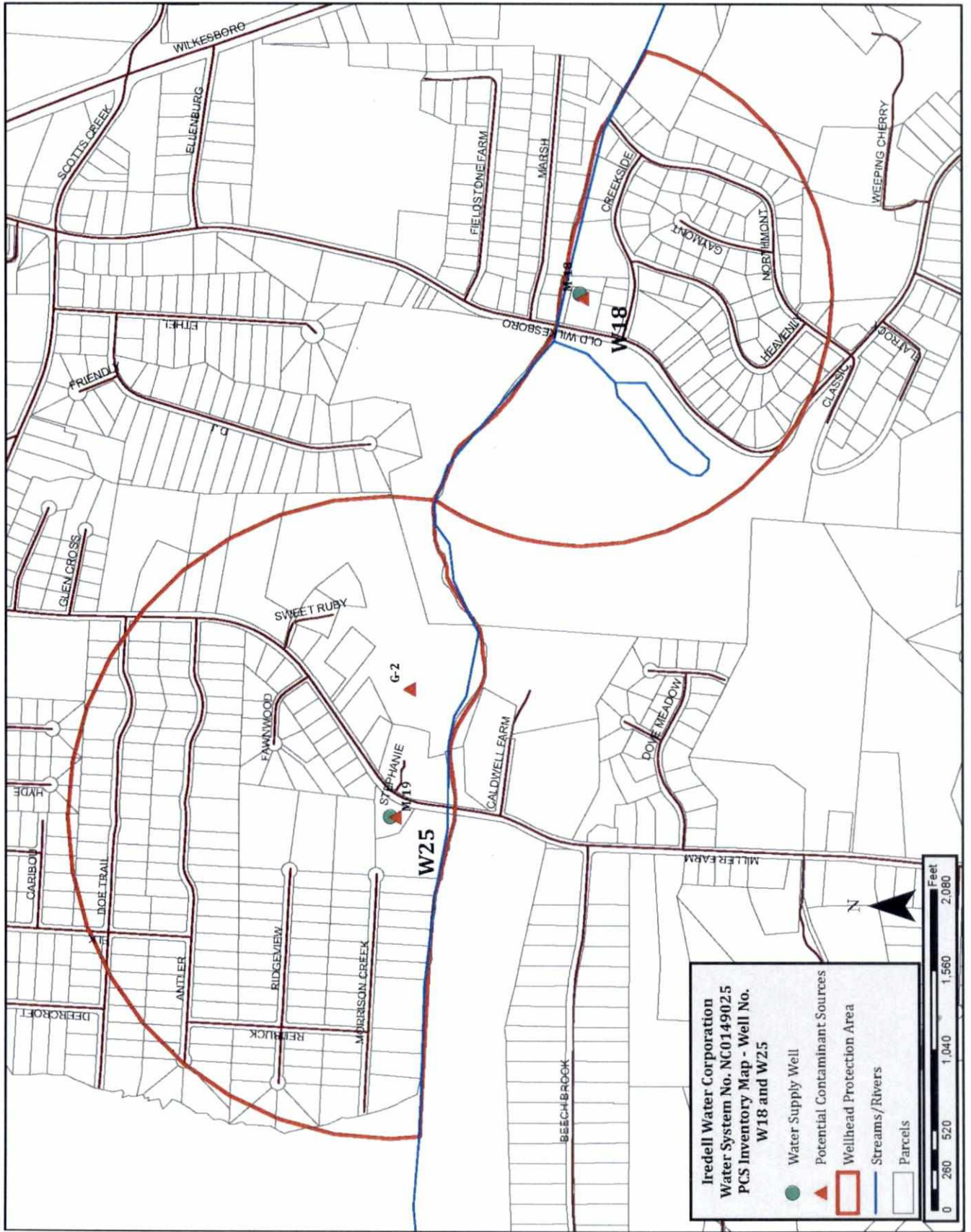
PCS Category	Map Code	PCS Site	Physical Location
Water Supply Well	M-18	Well 18	2122 Old Wilkesboro Rd. Statesville, NC 28625

**Table 21. Potential Contaminant Source Inventory - Well No. W25**

PCS Category	Map Code	PCS Site	Physical Location
Animal Operation	G-2	Stables	404 Miller Farm Rd. Statesville, NC 28625
Water Supply Well	M-19	Well 25	363 Miller Farm Rd. Statesville, NC 28625



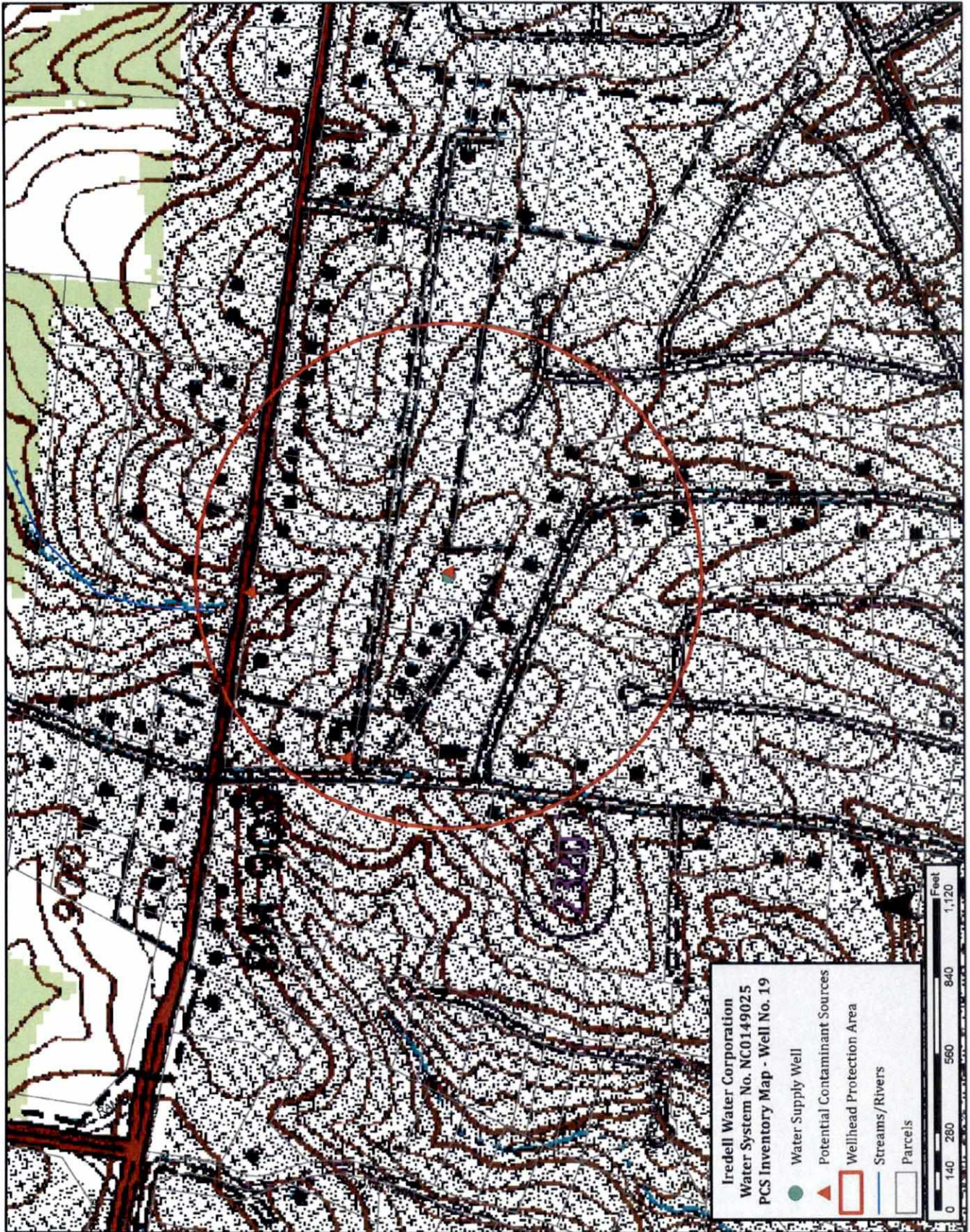


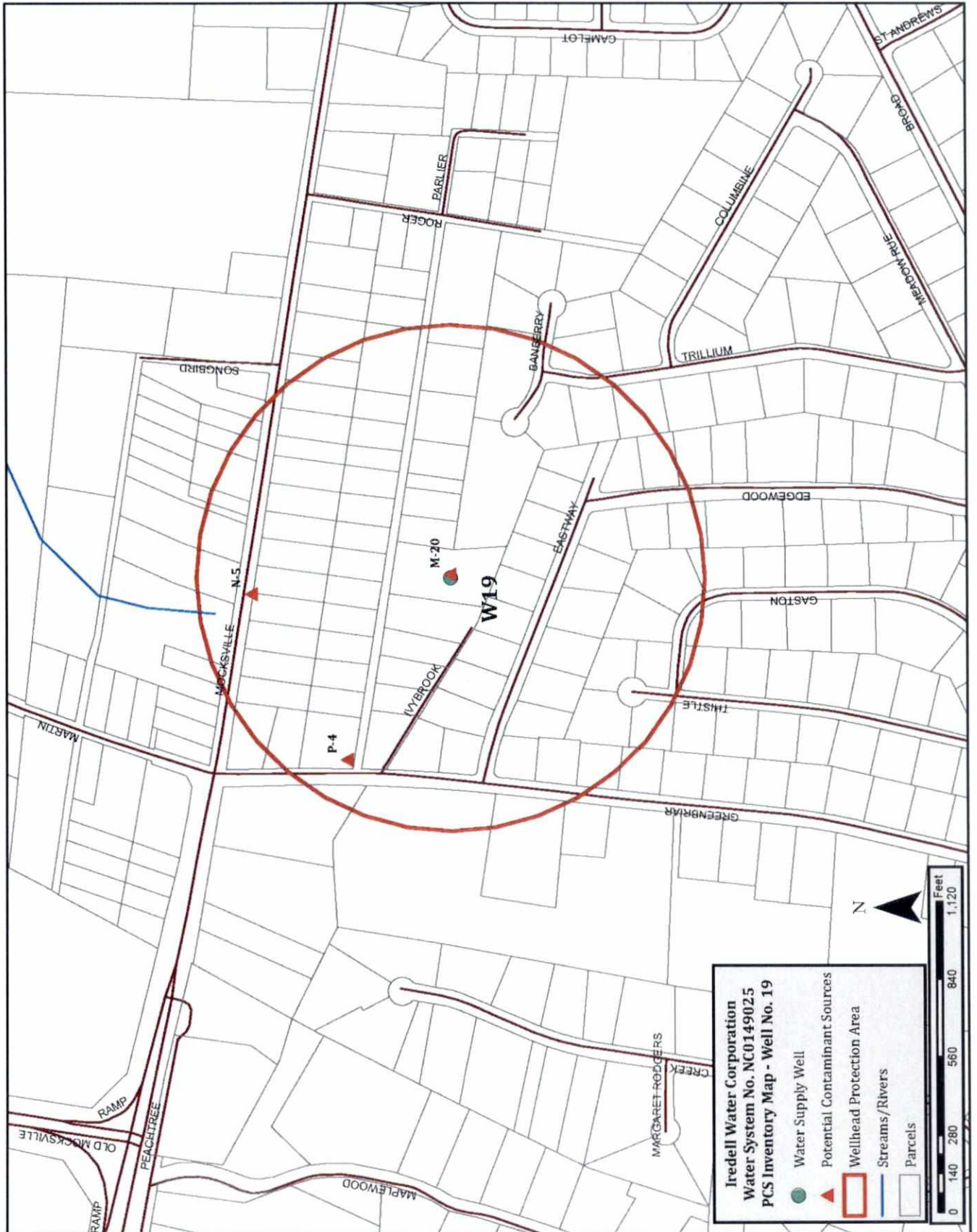




**Table 22. Potential Contaminant Source Inventory - Well No. W19**

<b>PCS Category</b>	<b>Map Code</b>	<b>PCS Site</b>	<b>Physical Location</b>
Water Supply Well	M-20	Well 19	520 N. Greenbriar Rd. Statesville, NC 28625
Transporation Corridor	N-5	Hwy US 64	Hwy US 64
Auto Parts/Repair	P-4	R&B Diesel Services	116 Parleir St. Statesville, NC 28625

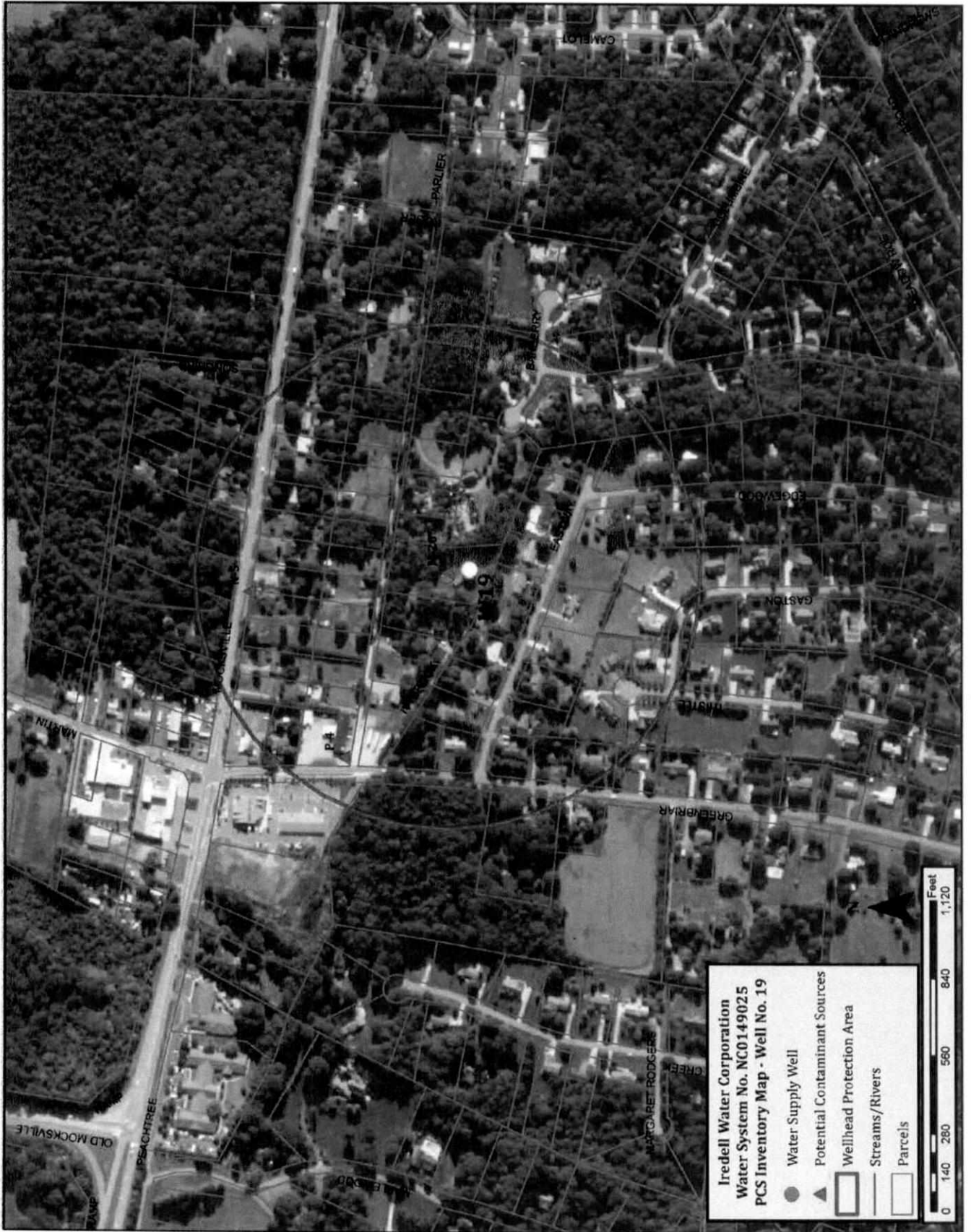




**Iredell Water Corporation**  
**Water System No. NC0149025**  
**PCS Inventory Map - Well No. 19**

- Water Supply Well
- Potential Contaminant Sources
- Wellhead Protection Area
- Streams/Rivers
- Parcels

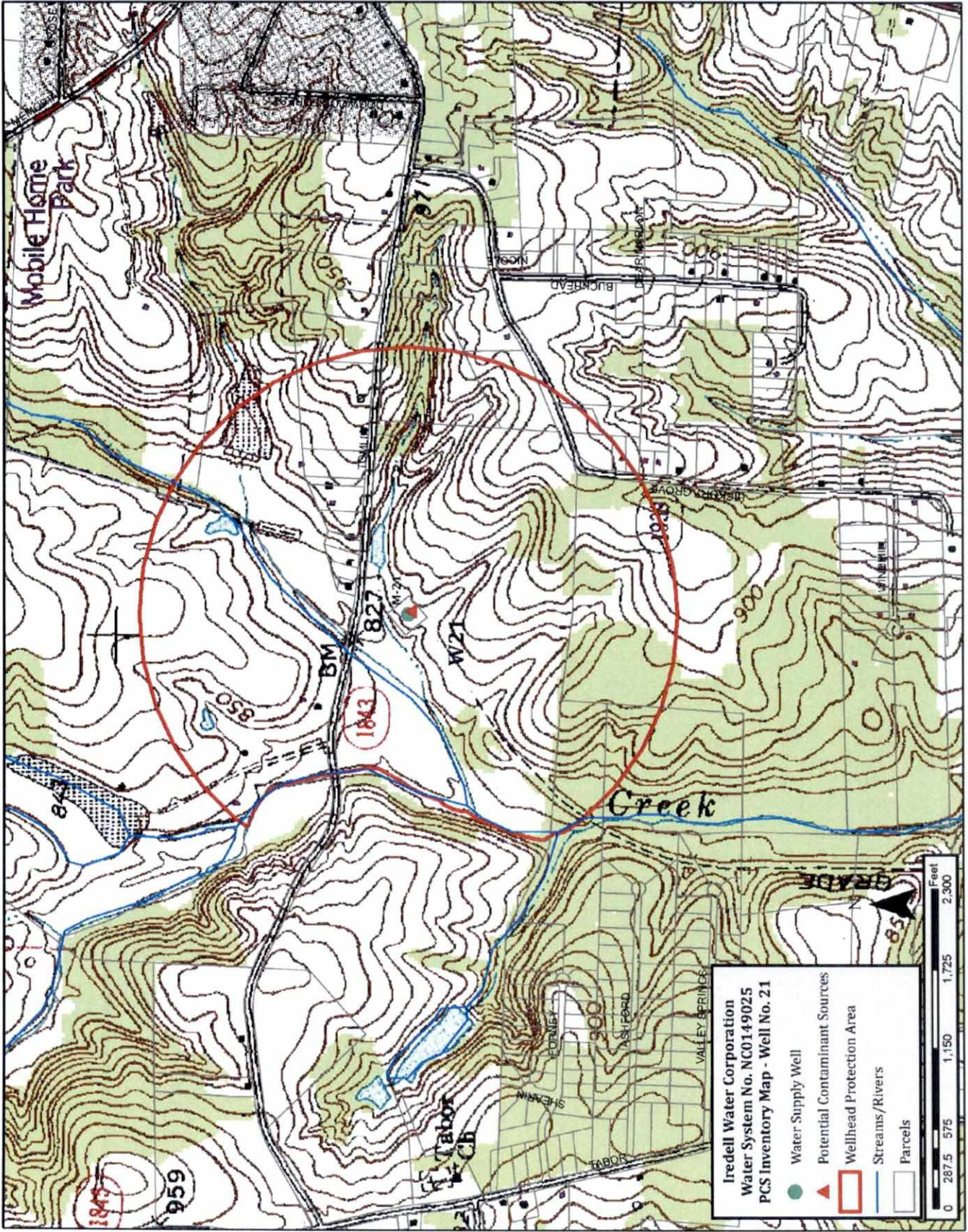


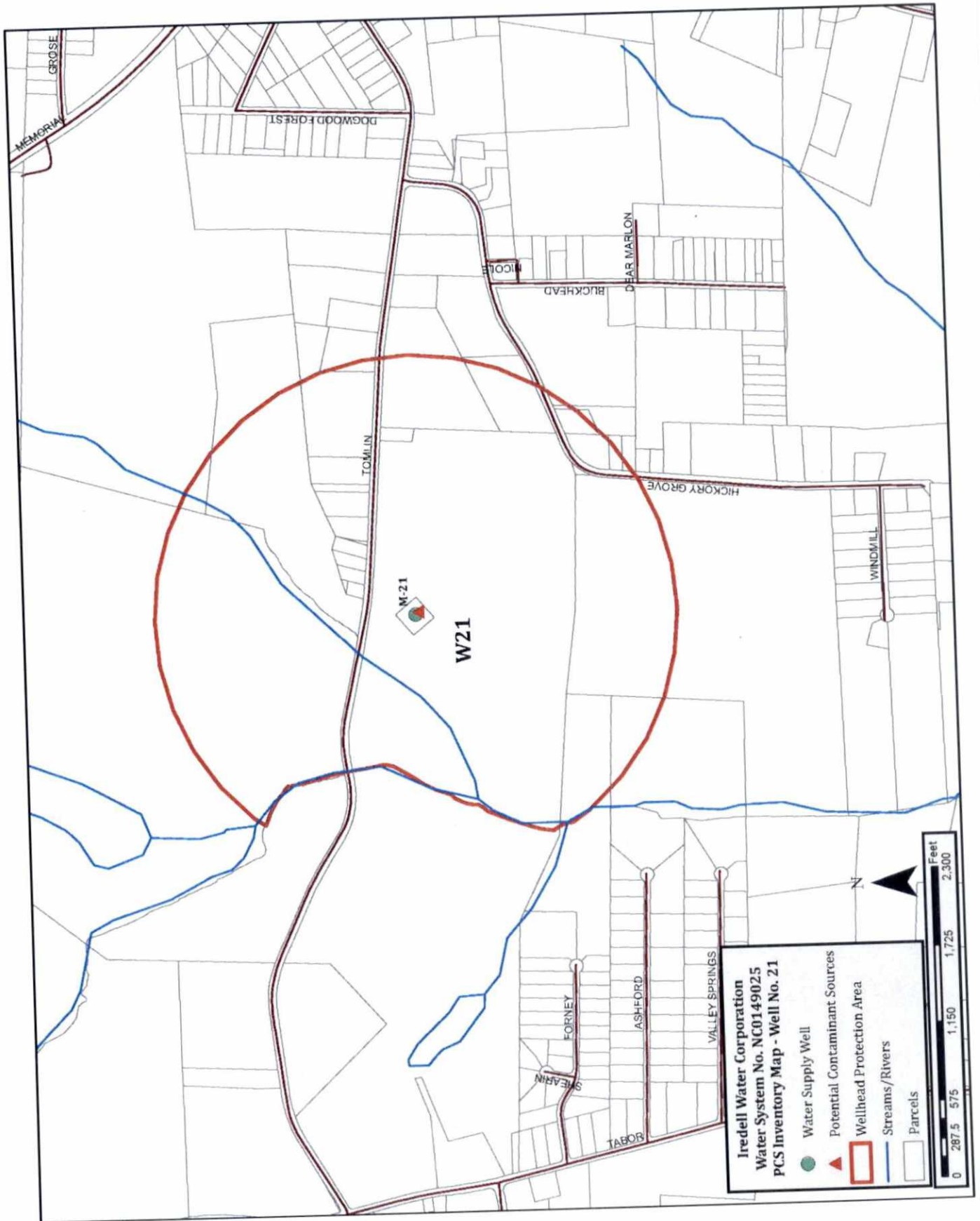


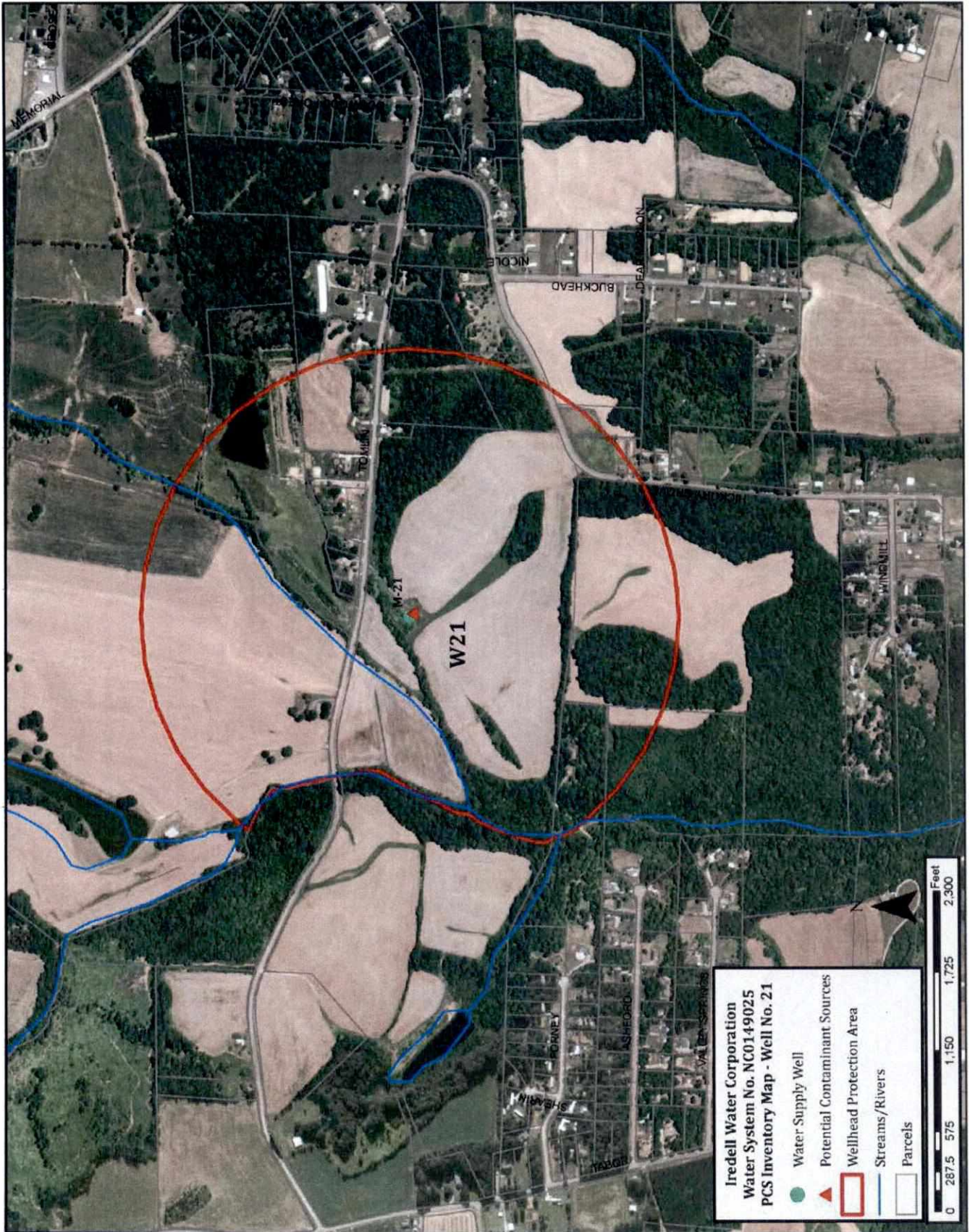
**Table 23. Potential Contaminant Source Inventory - Well No. W21**

PCS Category	Map Code	PCS Site	Physical Location
Water Supply Well	M-21	Well 21	351 Tomlin Rd. Harmony, NC 28634



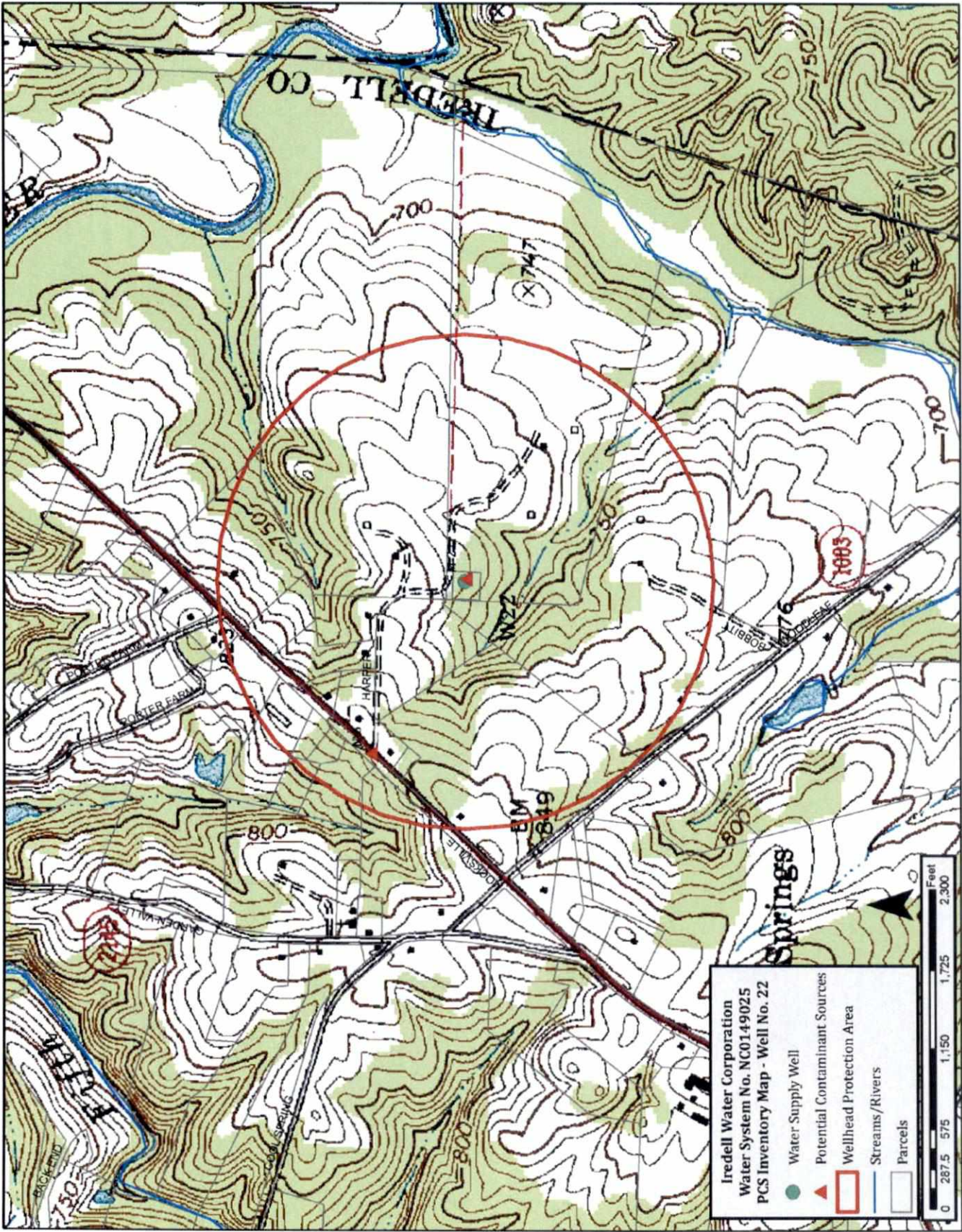


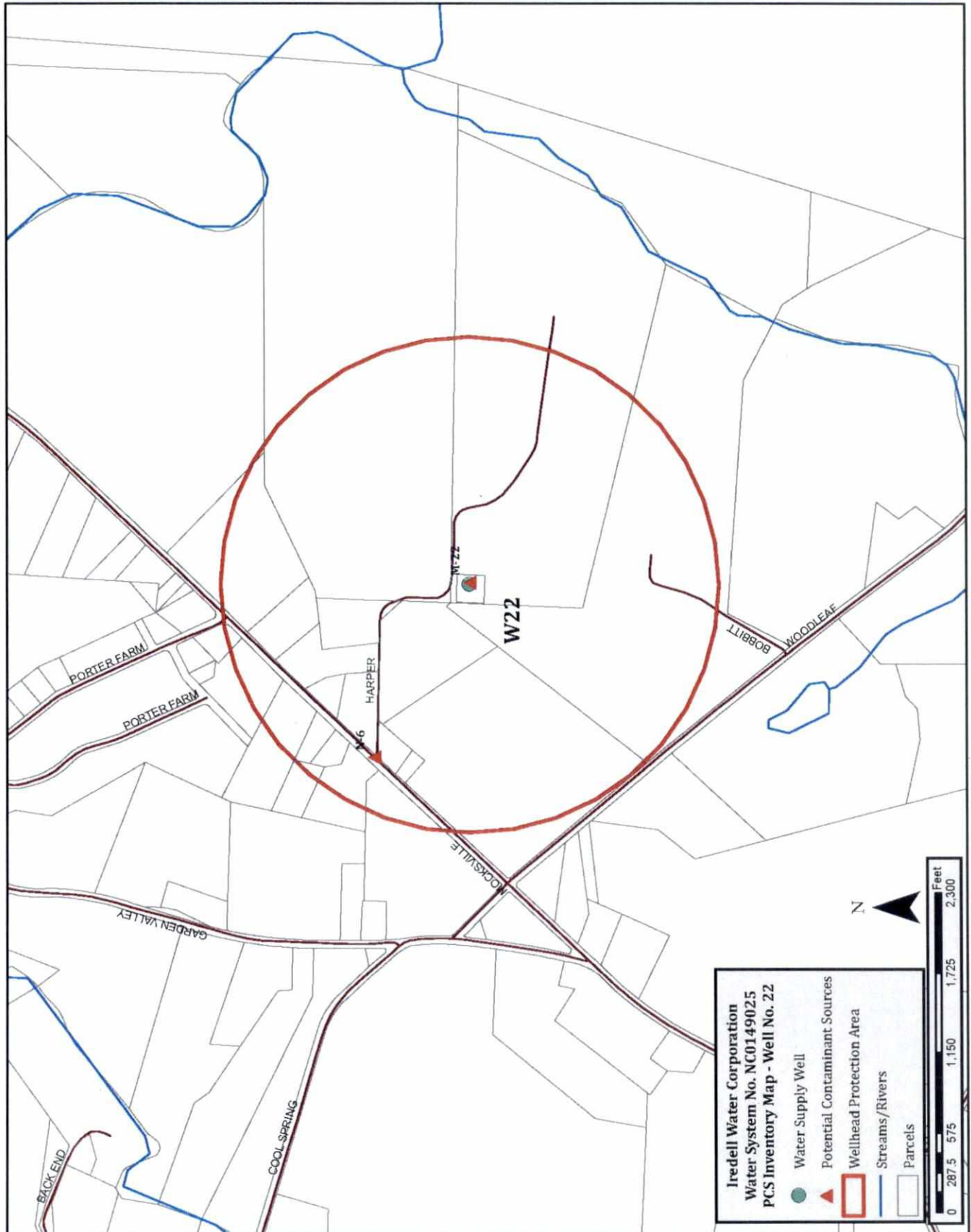


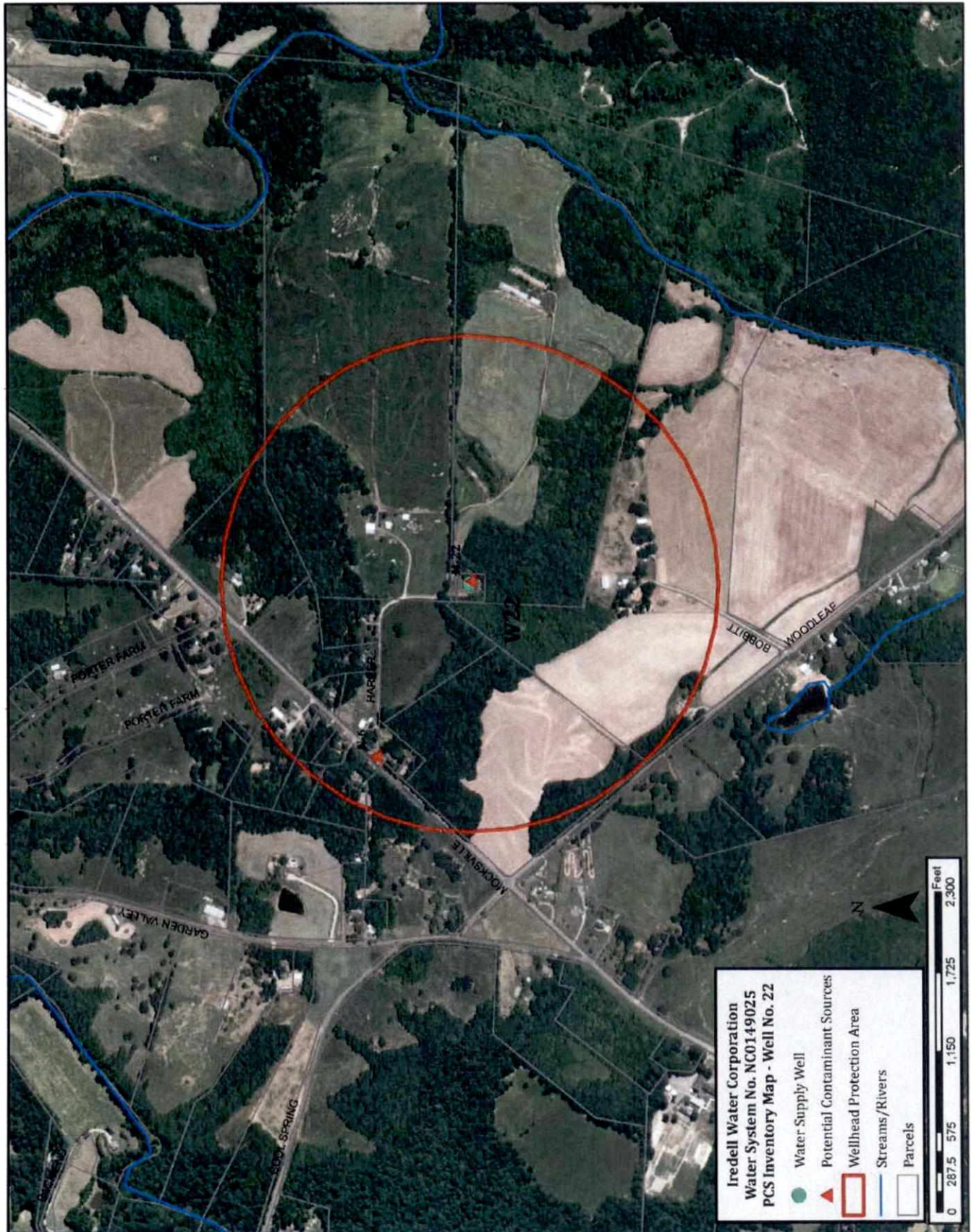


**Table 24. Potential Contaminant Source Inventory - Well No. W22**

<b>PCS Category</b>	<b>Map Code</b>	<b>PCS Site</b>	<b>Physical Location</b>
Water Supply Well	M-22	Well 22	176 Harper Dr. Statesville, NC 28625
Transporation Corridor	N-6	Hwy US 64	Hwy US 64







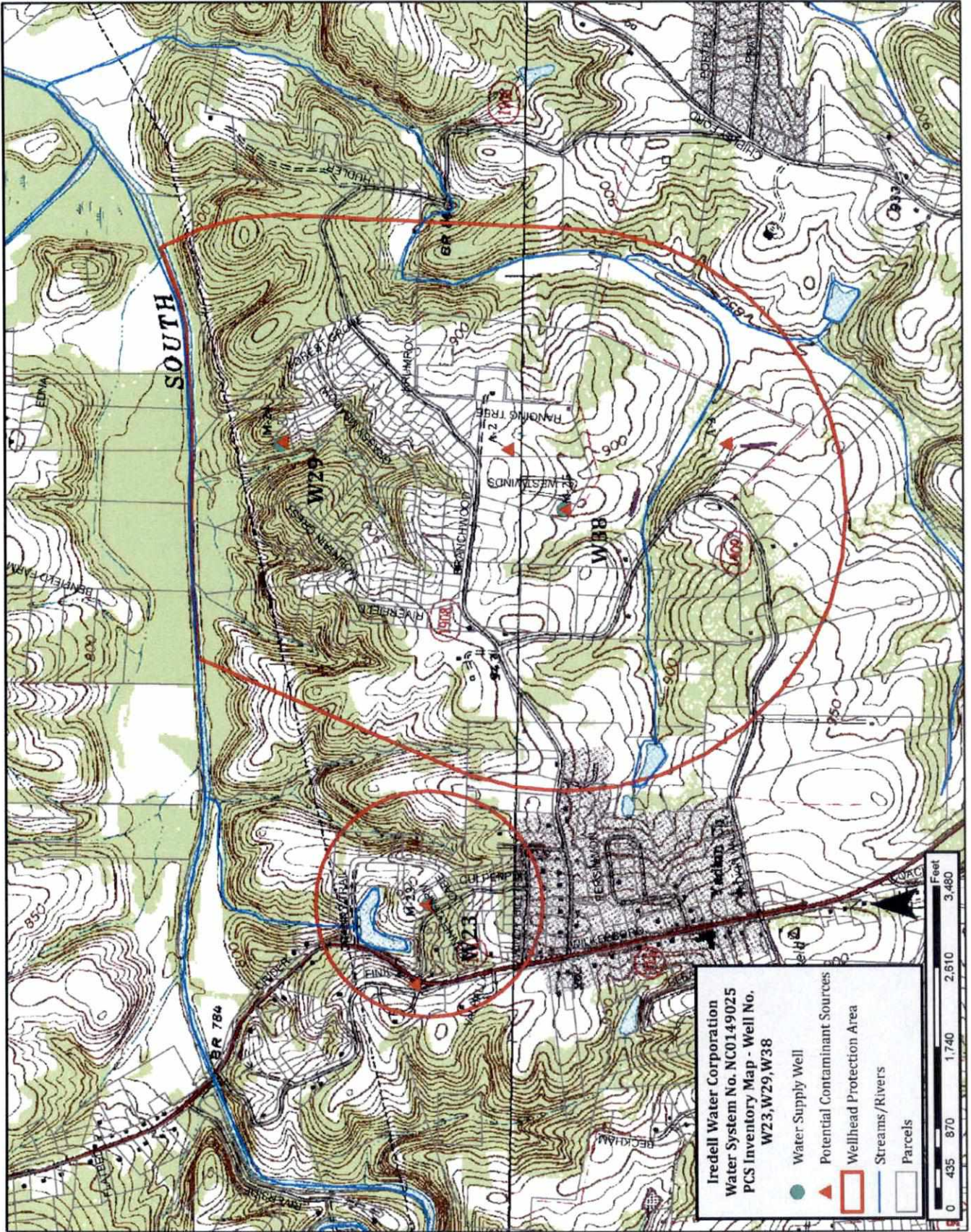
**Table 25. Potential Contaminant Source Inventory - Well No. W23**

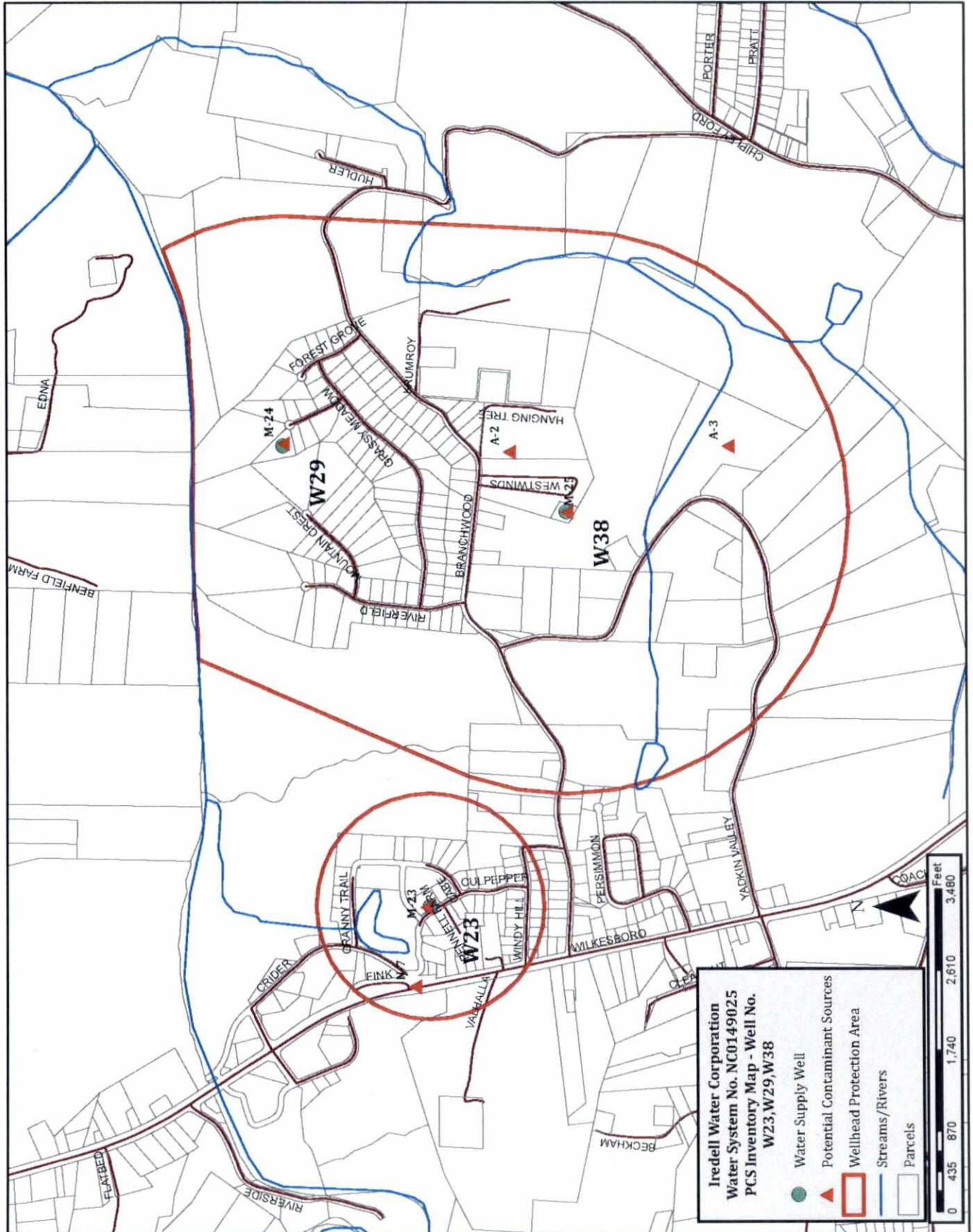
<b>PCS Category</b>	<b>Map Code</b>	<b>PCS Site</b>	<b>Physical Location</b>
Water Supply Well	M-23	Well 23	152 Culpepper Dr. Statesville, NC 28625
Transporation Corridor	N-7	Hwy US 115	Hwy US 115

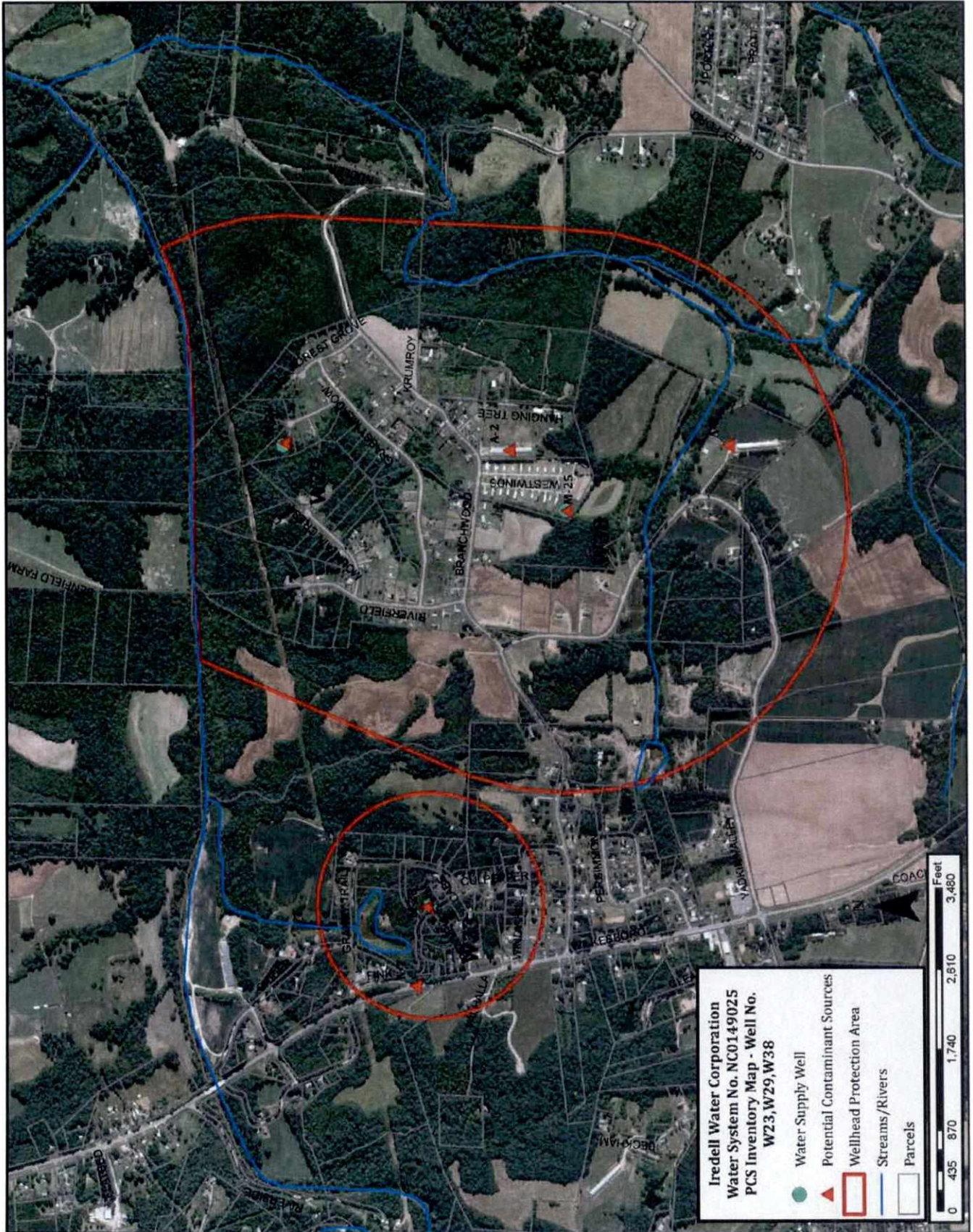
**Table 26. Potential Contaminant Source Inventory - Well No. W29 and W38**

<b>PCS Category</b>	<b>Map Code</b>	<b>PCS Site</b>	<b>Physical Location</b>
Poultry Operation	A-2	Neng Thao	171 Hanging Tree Ln. Statesville, NC 2625
Poultry Operation	A-3	Roldan Speer	324 Yadkin Valley Rd. Statesville, NC 28625
Water Supply Well	M-24	Well 29	131 Beaverwood Ln. Statesville, NC 28625
Water Supply Well	M-25	Well 38	155 Westwinds Lp. Statesville, NC 28625



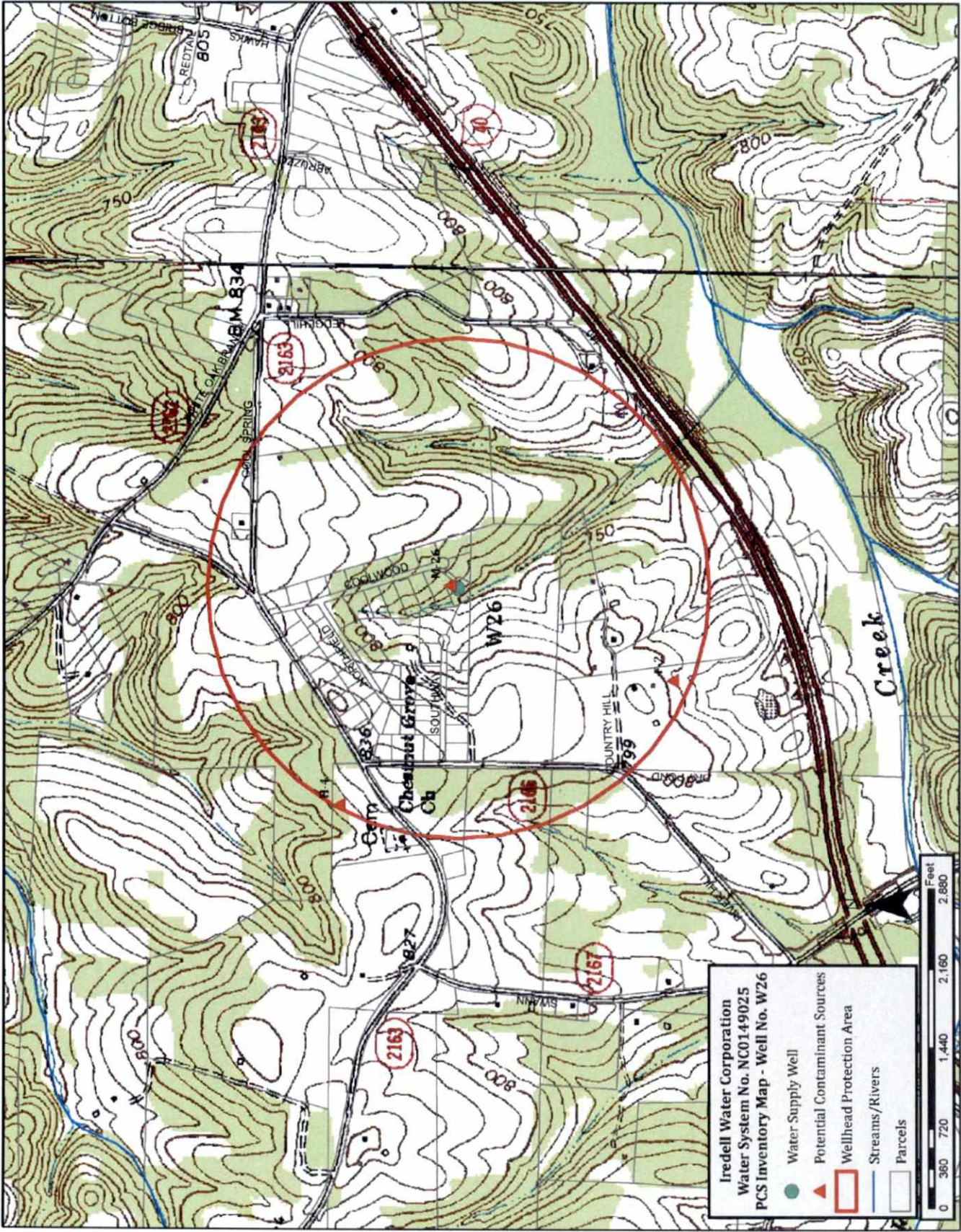


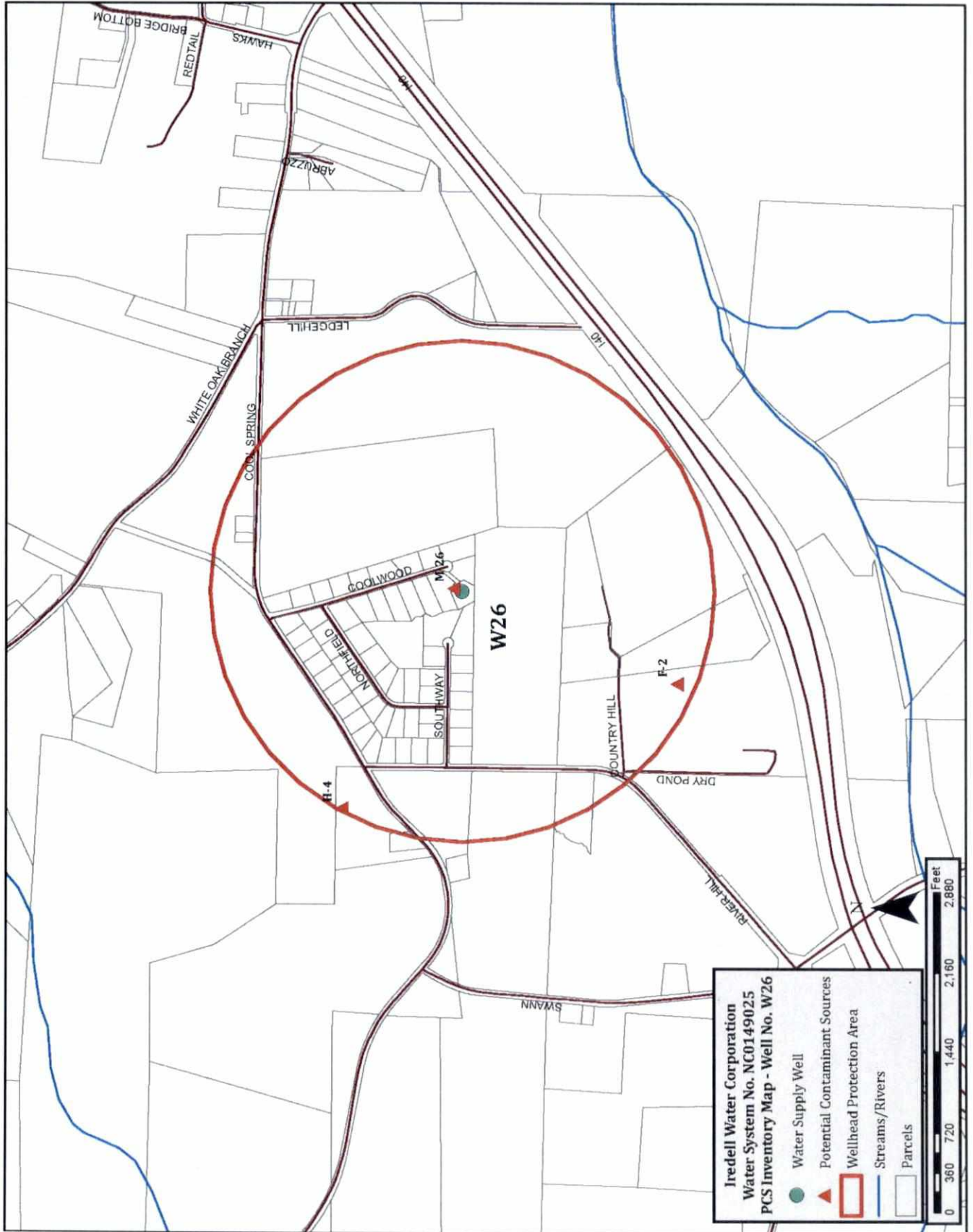


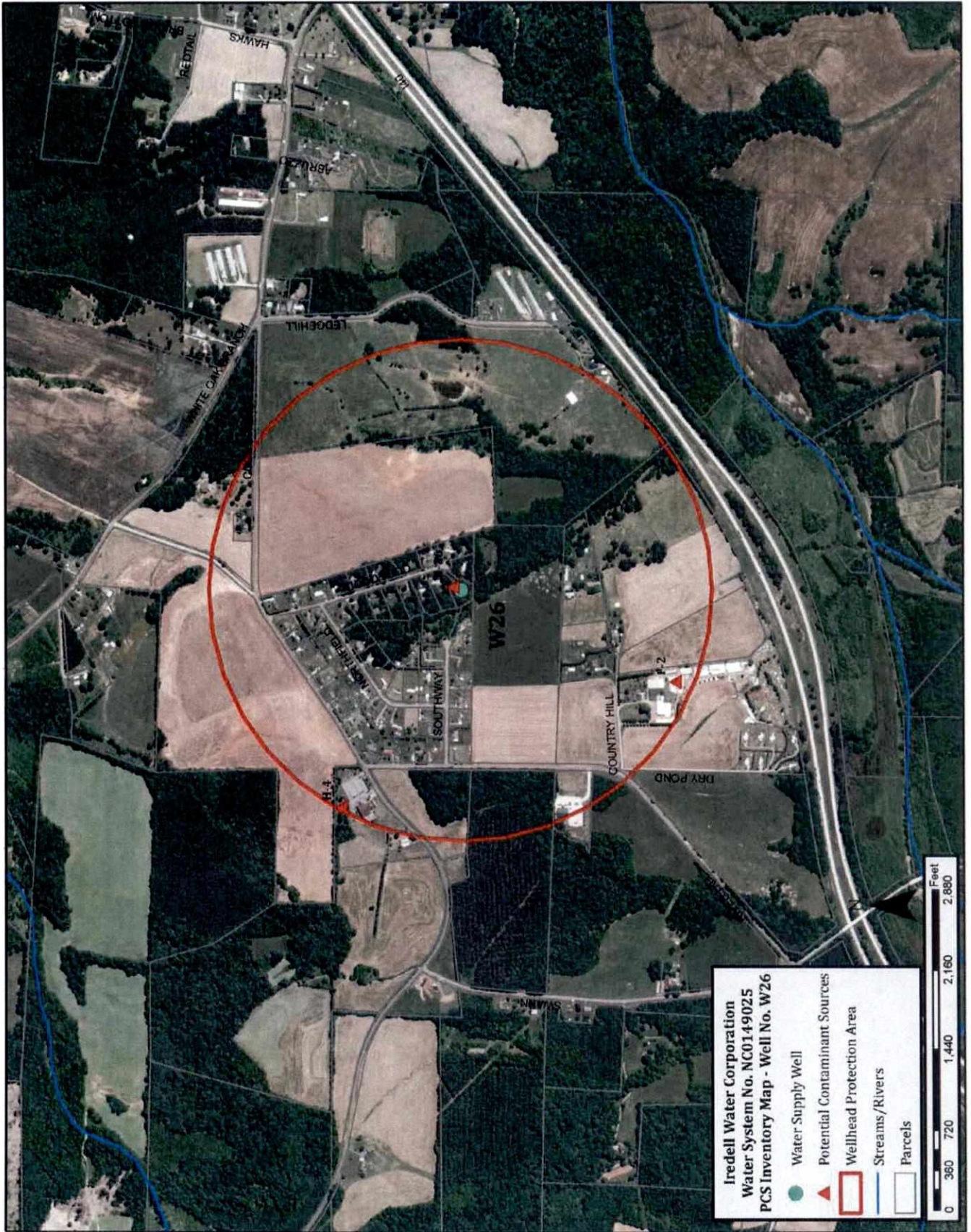


**Table 27. Potential Contaminant Source Inventory - Well No. W26**

<b>PCS Category</b>	<b>Map Code</b>	<b>PCS Site</b>	<b>Physical Location</b>
Dairy Farm	F-2	Buttke Dairy Farm	104 Country Hill Ln. Statesville, NC 28625
Church/Cemetery	H-4	Chestnut Grove Cemetery	796 Cool Springs Rd. Statesville, NC 28625
Water Supply Well	M-26	Well 26	178 Coolwood Dr. Statesville, NC 28625



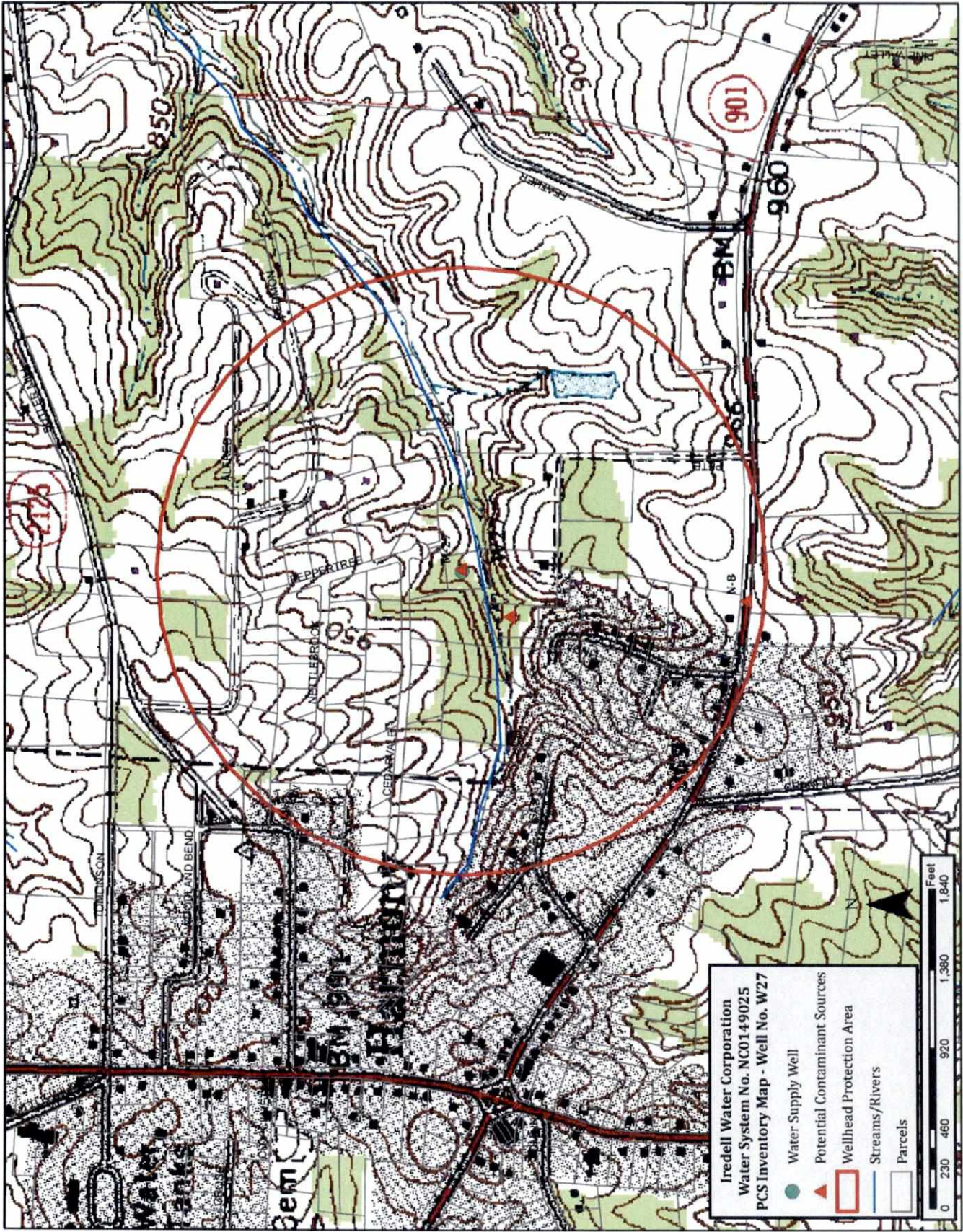


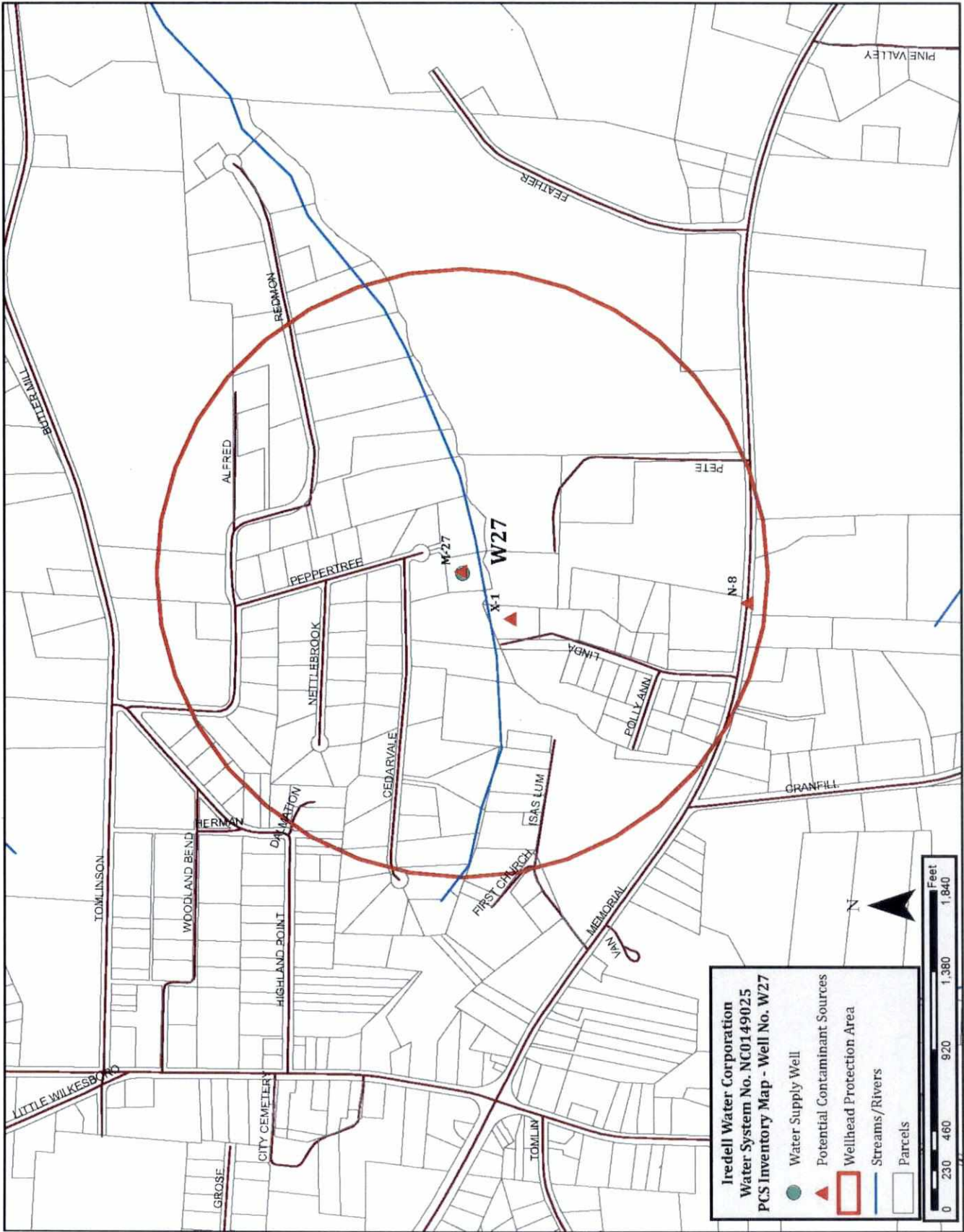


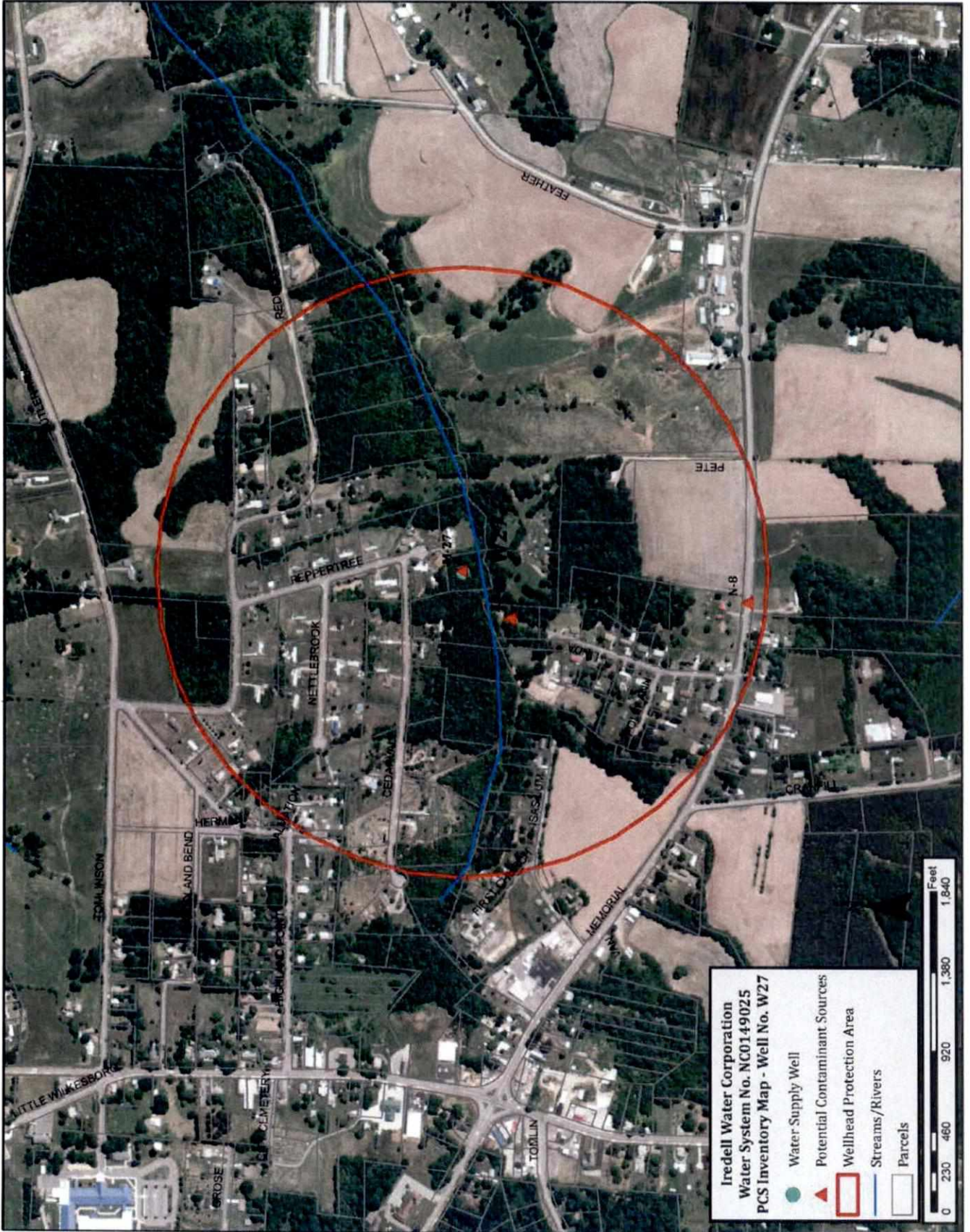
**Table 28. Potential Contaminant Source Inventory - Well No. W27**

<b>PCS Category</b>	<b>Map Code</b>	<b>PCS Site</b>	<b>Physical Location</b>
Water Supply Well	M-27	Well 27	158 Peppertree Dr. Harmony, NC 28634
Transporation Corridor	N-8	Hwy 901	Hwy 901
Sewer Lift Station	X-1	Harmony Lift Station	End of Linda Rd. Harmony, NC 28634



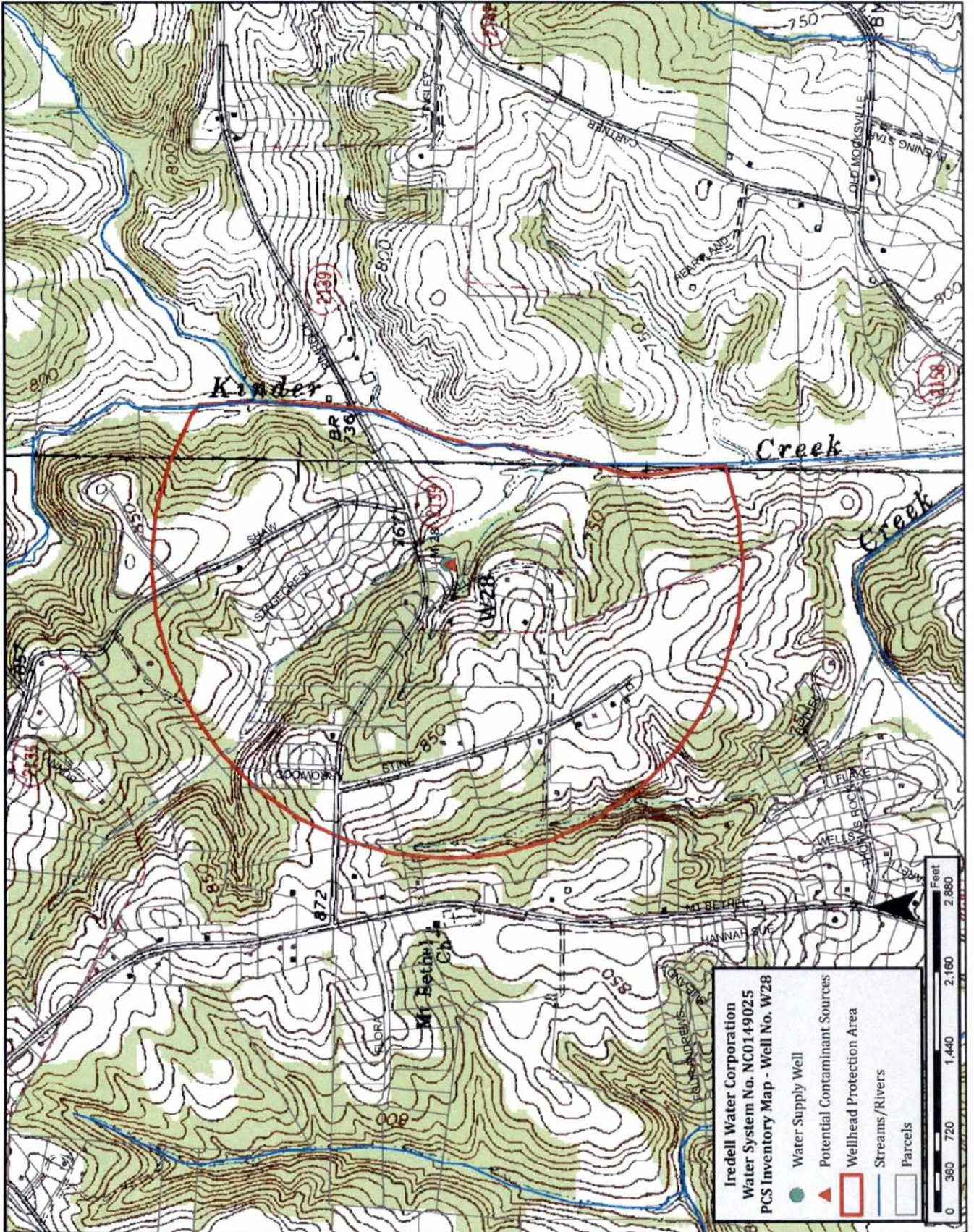


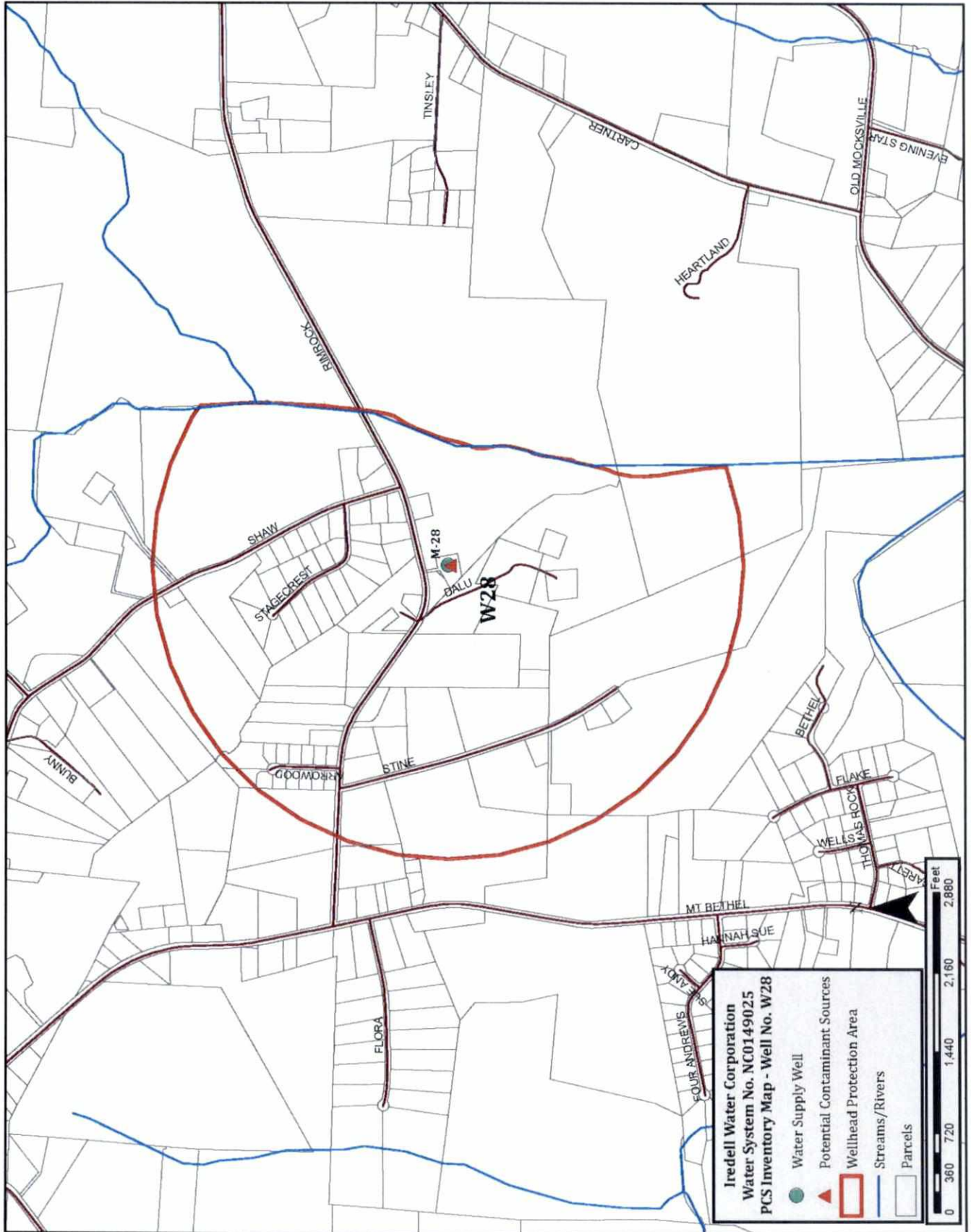


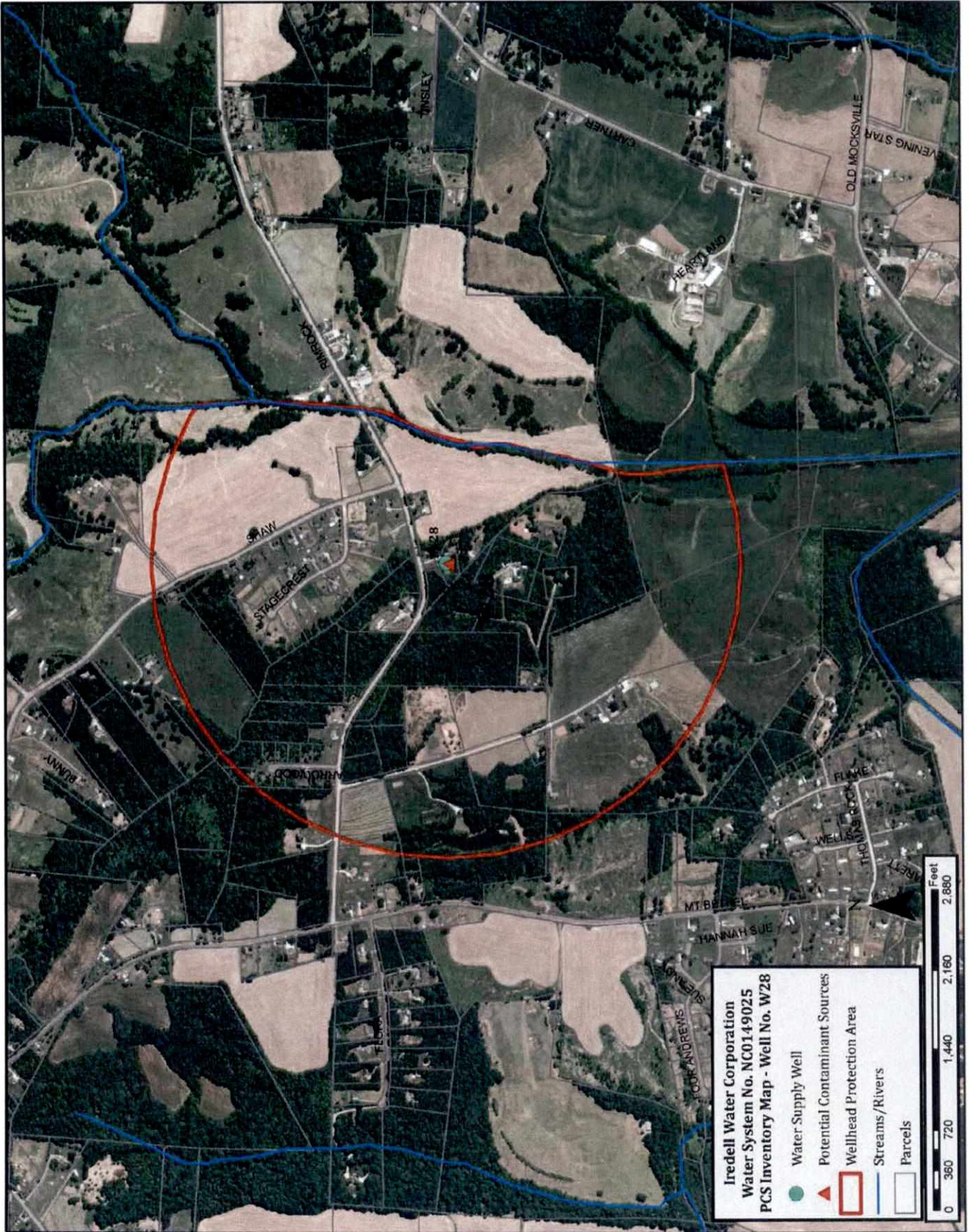


**Table 29. Potential Contaminant Source Inventory - Well No. W28**

PCS Category	Map Code	PCS Site	Physical Location
Water Supply Well	M-28	Well 28	260 Rimrock Rd. Harmony, NC 28634



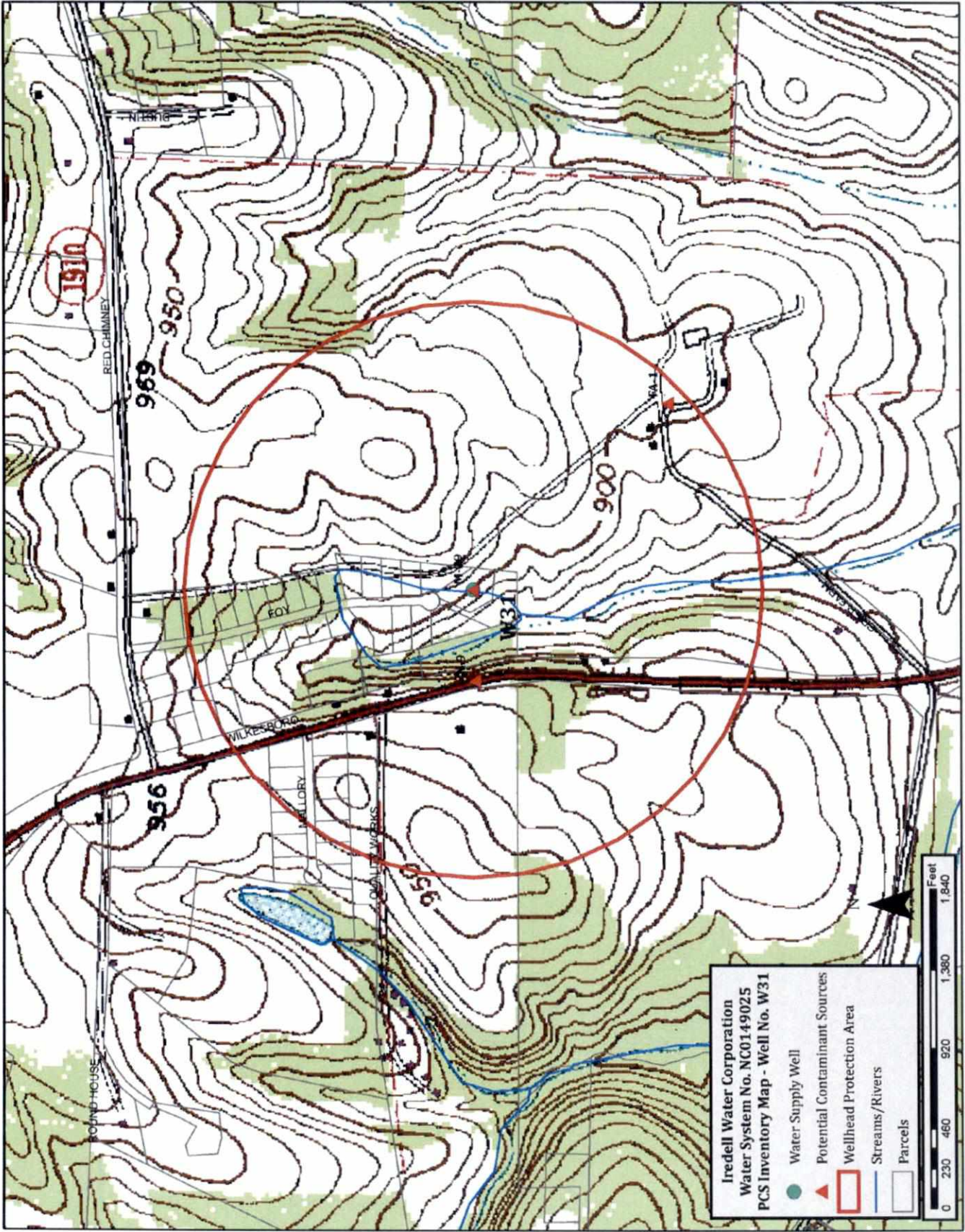


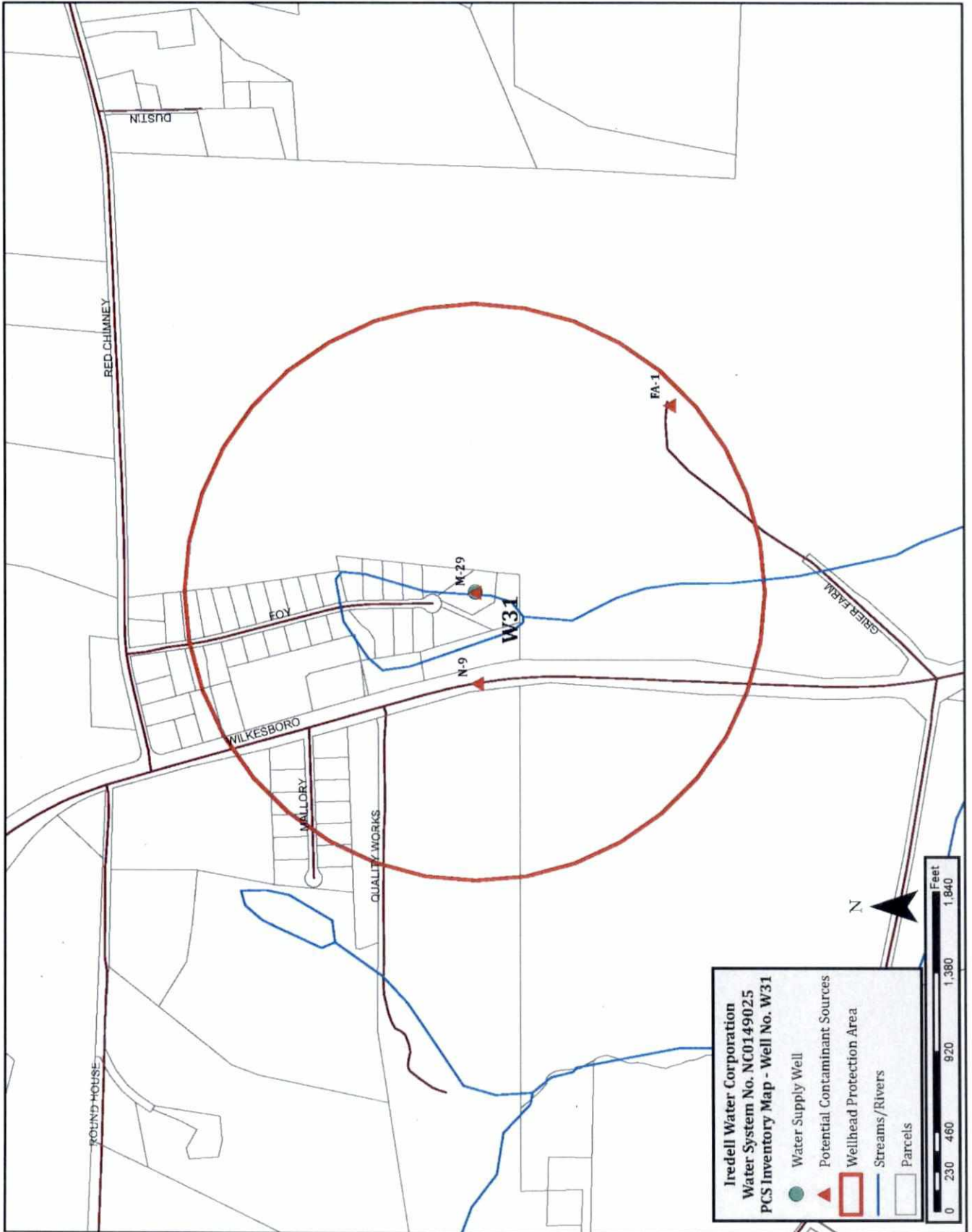


**Table 30. Potential Contaminant Source Inventory - Well No. W31**

<b>PCS Category</b>	<b>Map Code</b>	<b>PCS Site</b>	<b>Physical Location</b>
Abandoned Dairy Farm	FA-1	Hilltop Farm Lagoon	203 Grier Farm Rd. Statesville, NC 28625
Water Supply Well	M-29	Well 31	183 Foy Ln. Statesville, NC 28625
Transportation Corridor	N-9	Hwy US 115	Hwy US 115



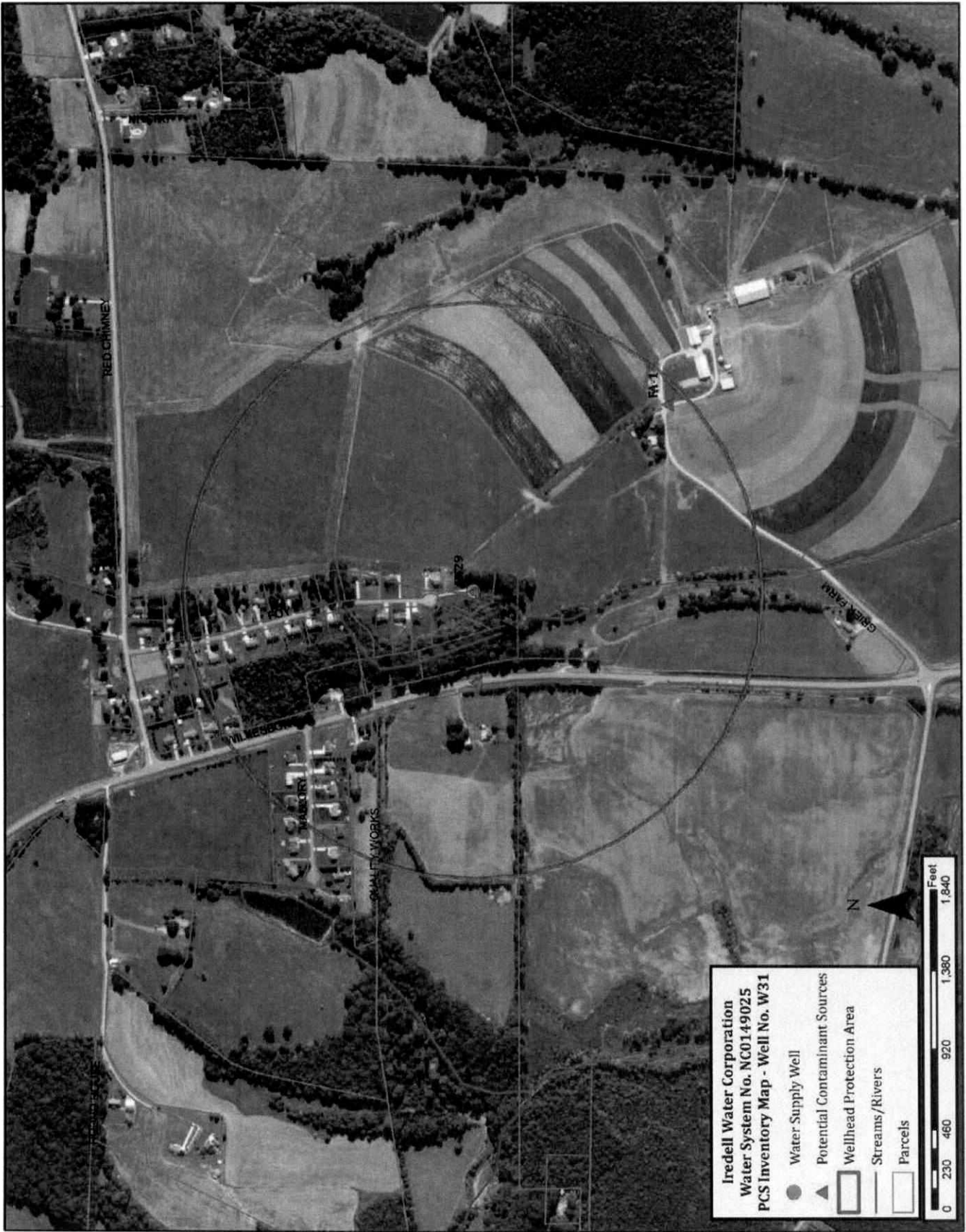




**Iredell Water Corporation**  
**Water System No. NC0149025**  
**PCS Inventory Map - Well No. W31**

- Water Supply Well
- ▲ Potential Contaminant Sources
- Wellhead Protection Area
- Streams/Rivers
- Parcels



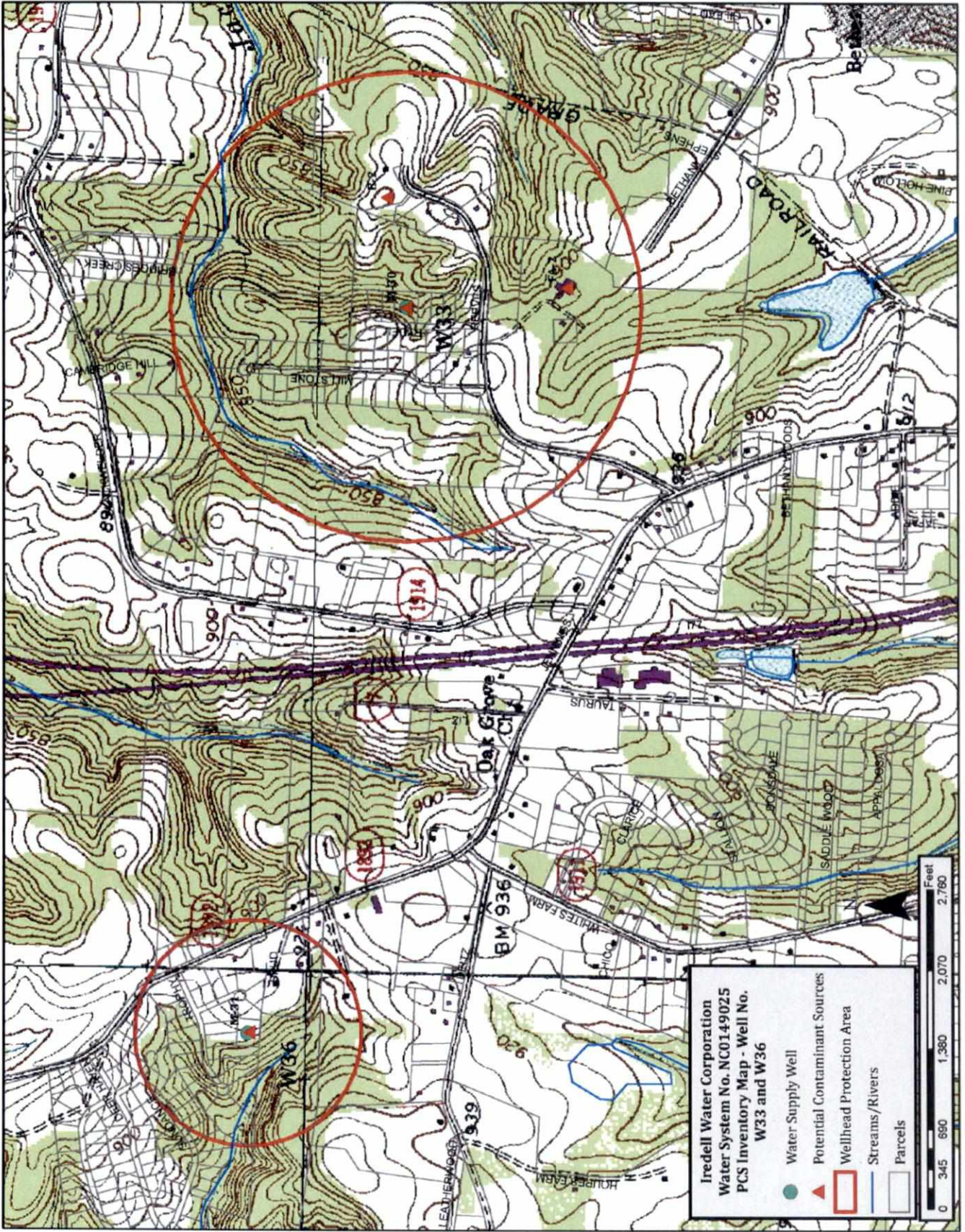


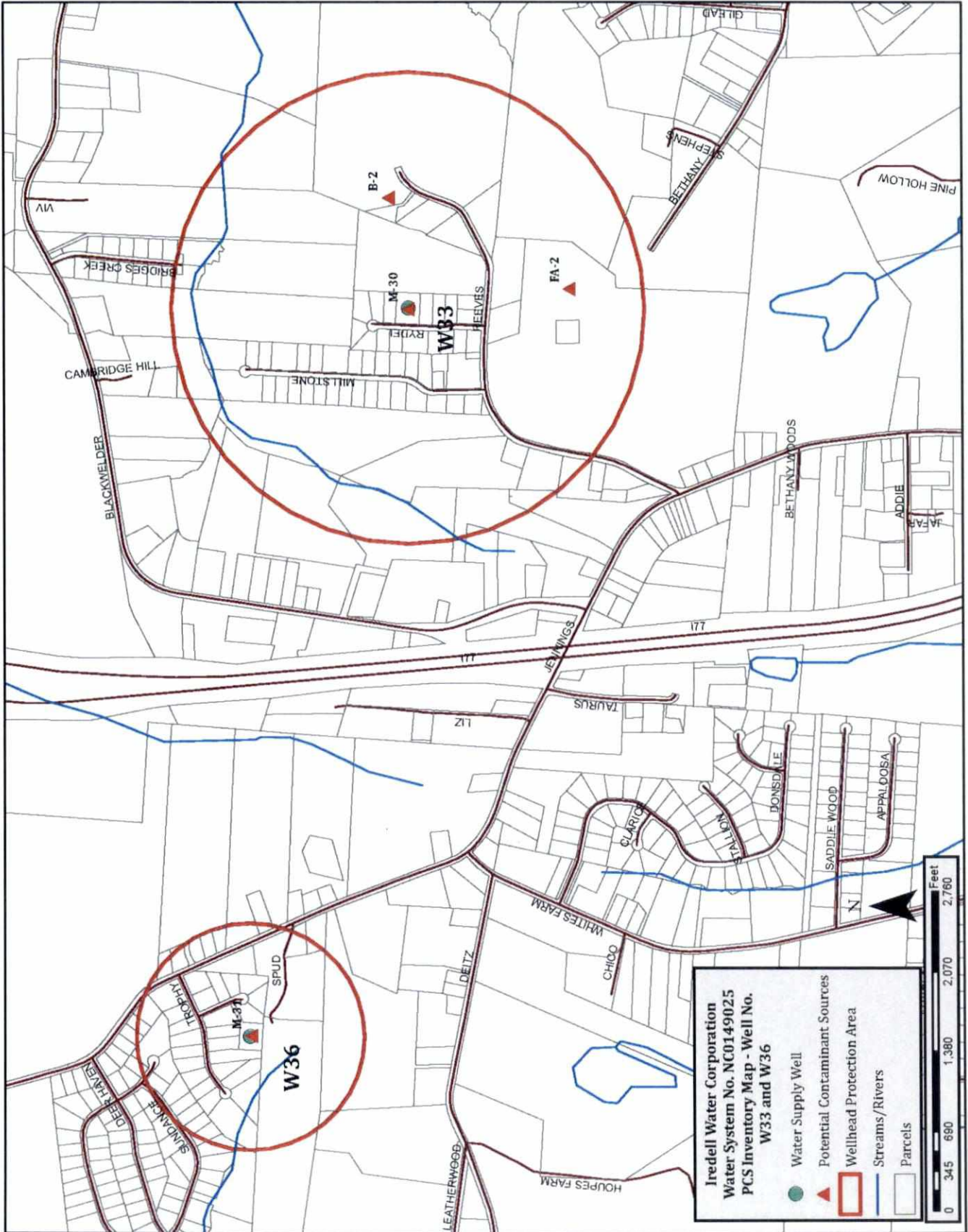
**Table 31. Potential Contaminant Source Inventory - Well No. W33**

PCS Category	Map Code	PCS Site	Physical Location
Poultry Operation (Abandoned)	B-2	Clara Welborn	293 Reeves Rd. Statesville, NC 28625
Abandoned Dairy Farm	FA-2	Blackwelder Dairy	220 Reeves Rd. Statesville, NC 28625
Water Supply Well	M-30	Well 33	134 Rydel Ln. Statesville, NC 28625

**Table 32. Potential Contaminant Source Inventory - Well No. W36**

PCS Category	Map Code	PCS Site	Physical Location
Water Supply Well	M-31	Well 36	114 Ladybug Ct. Statesville, NC 28625



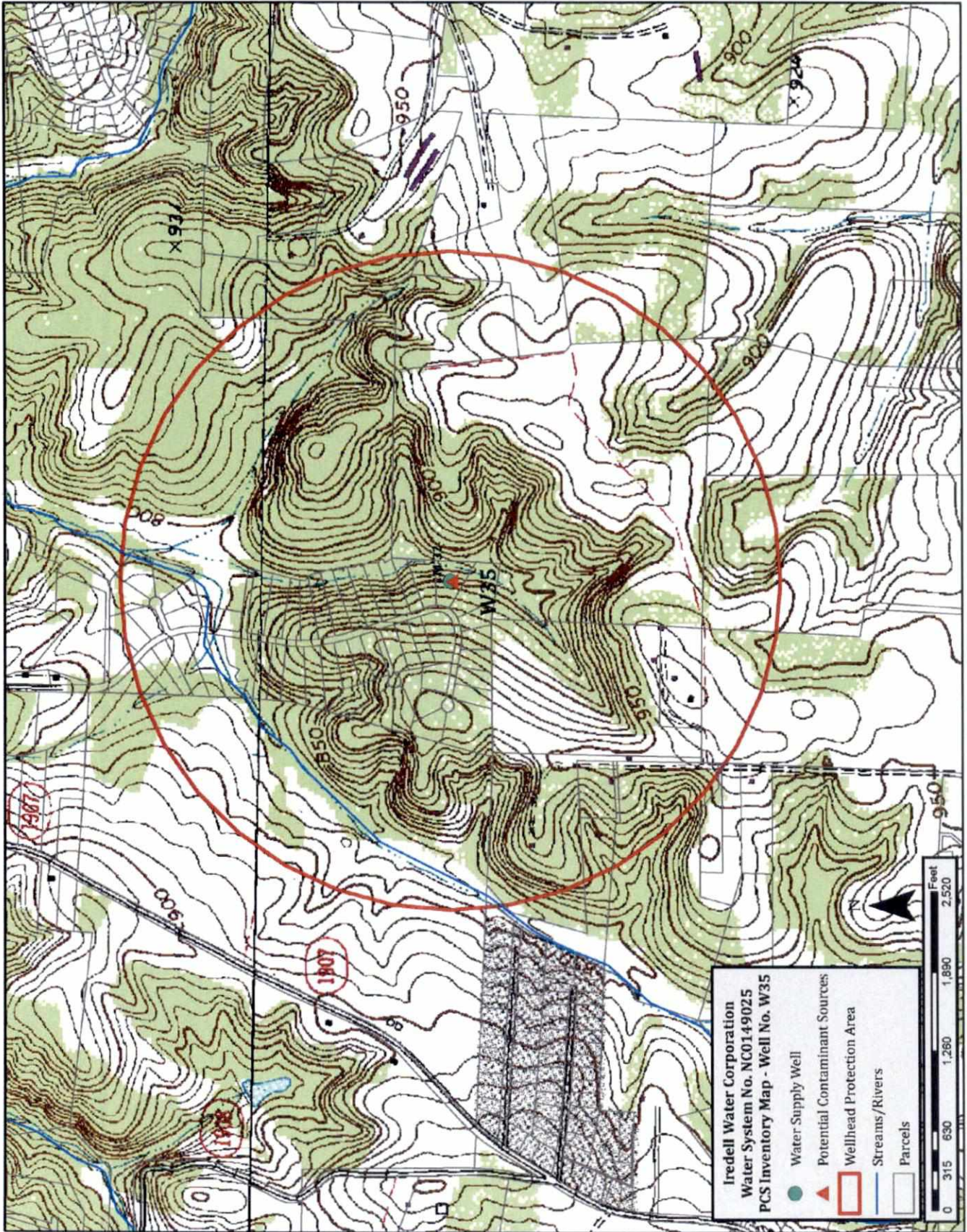


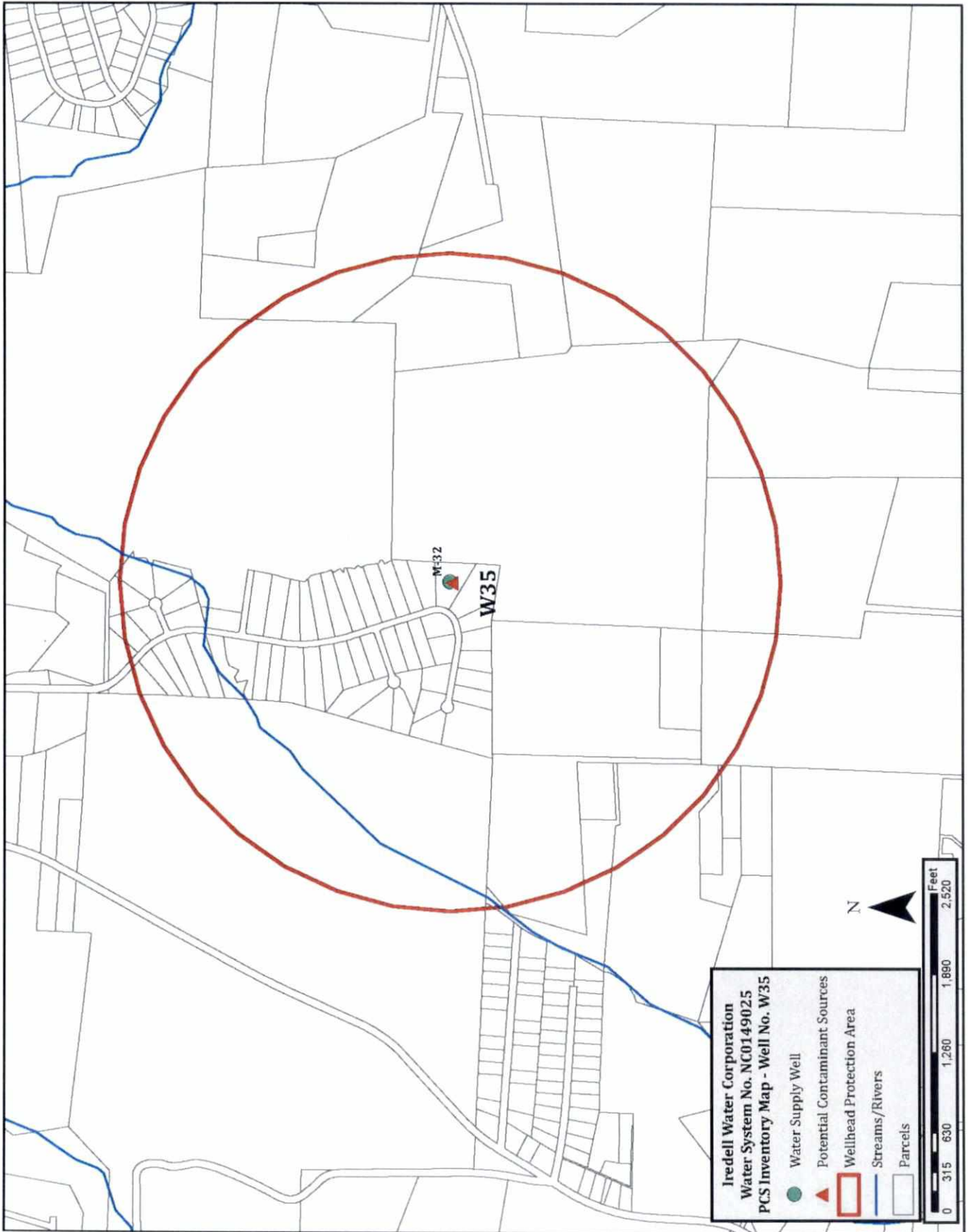


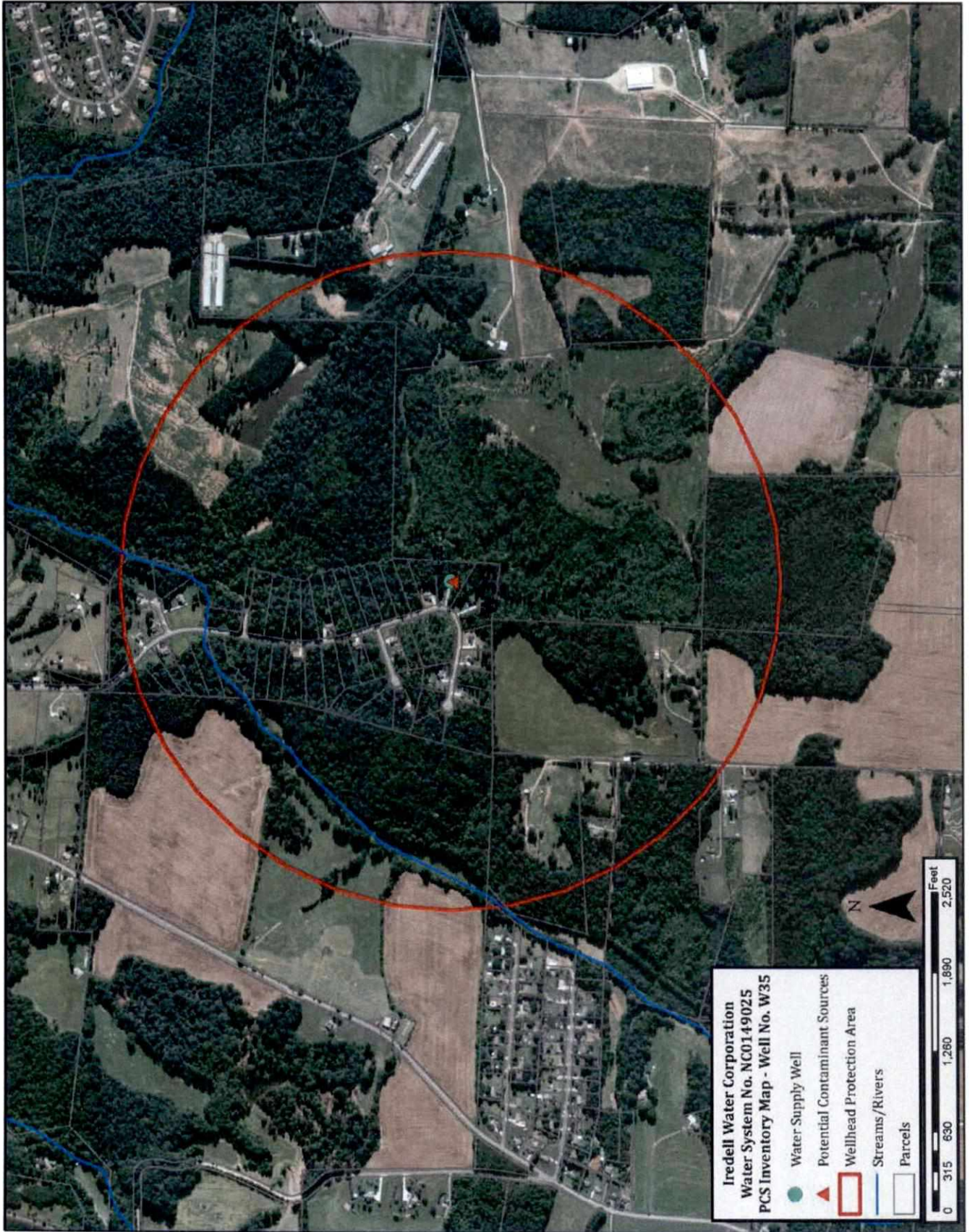
**Table 33. Potential Contaminant Source Inventory - Well No. W35**

PCS Category	Map Code	PCS Site	Physical Location
Water Supply Well	M-32	Well 35	345 Bluegill Ln. Statesville, NC 28625



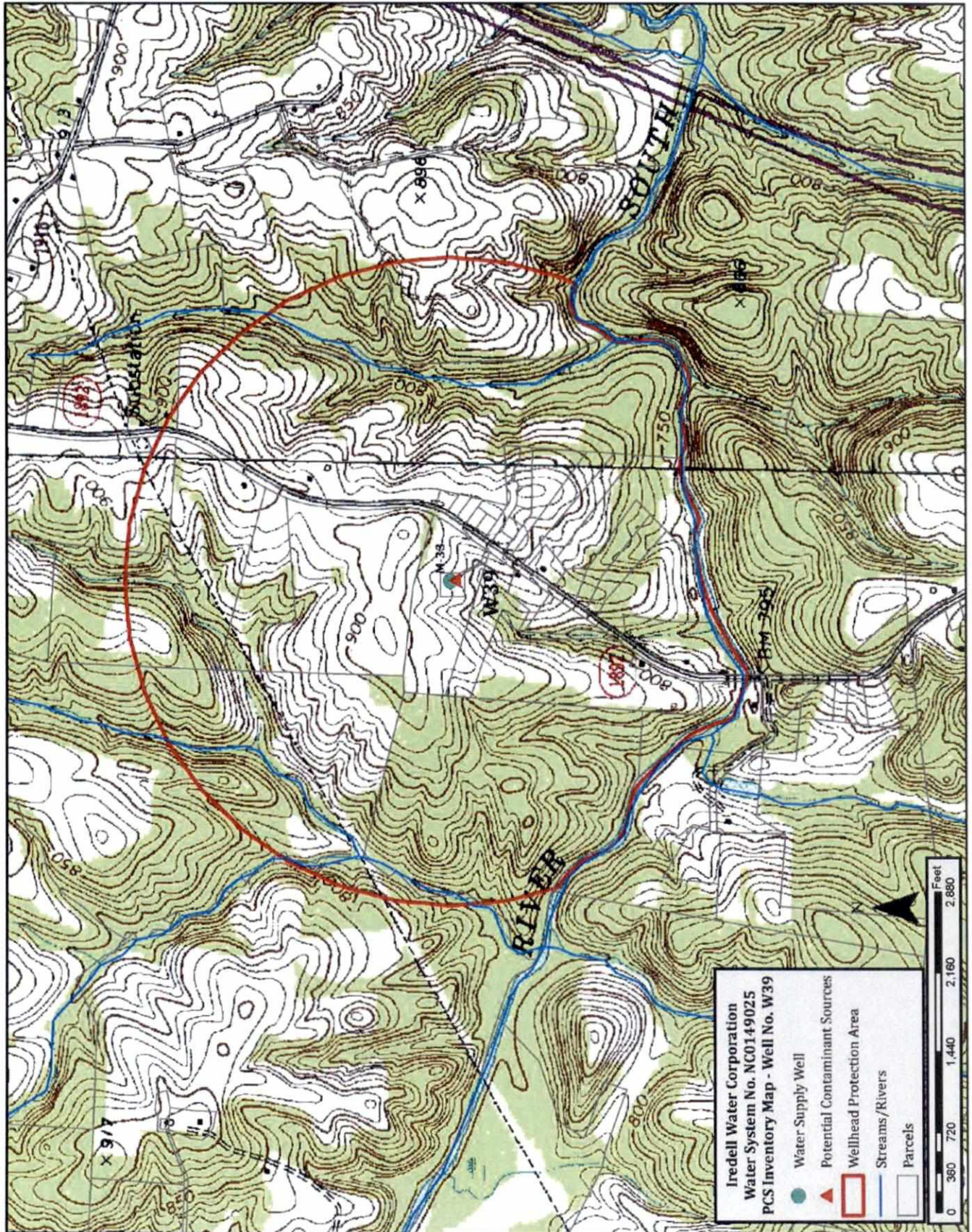


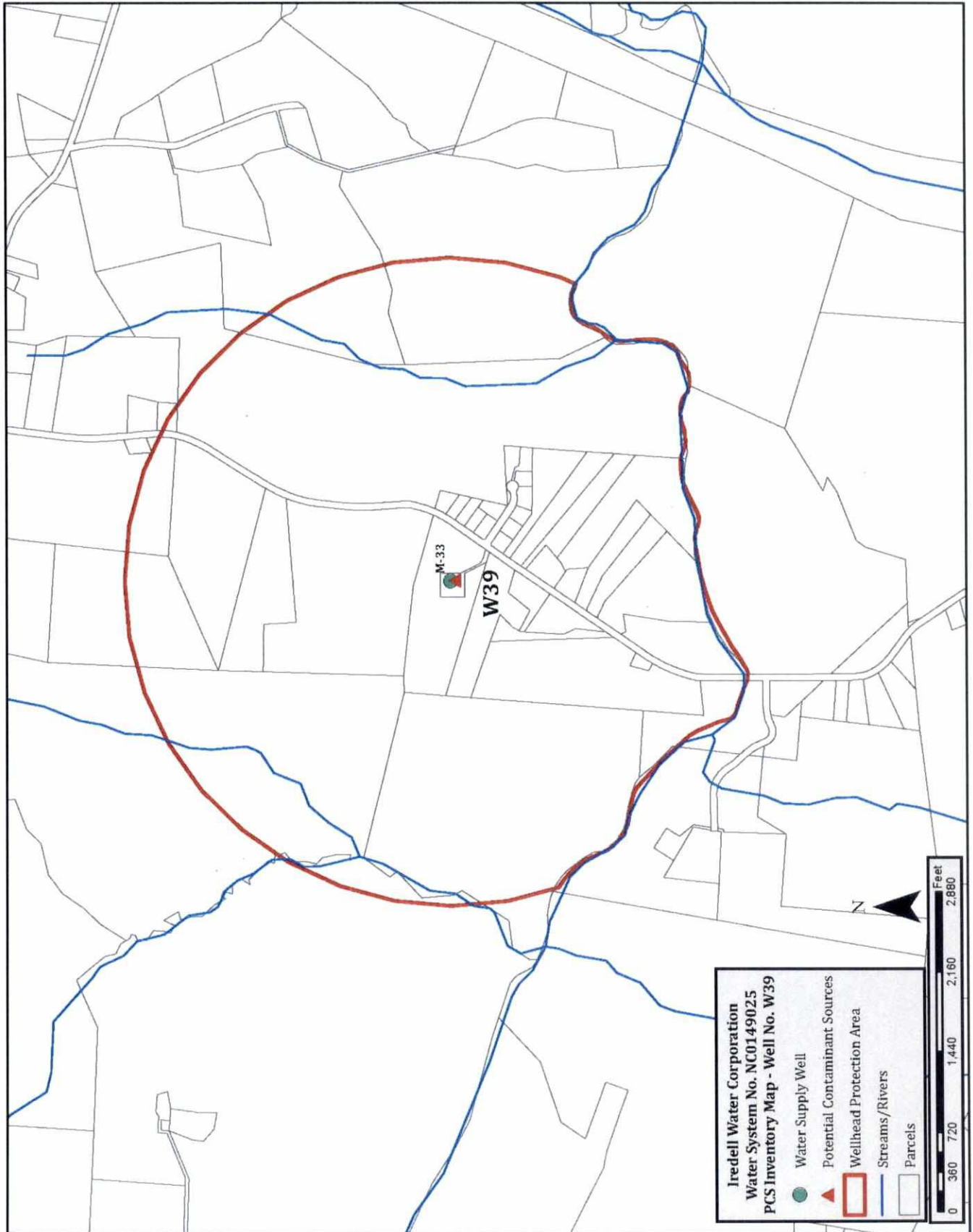




**Table 34. Potential Contaminant Source Inventory - Well No. W39**

PCS Category	Map Code	PCS Site	Physical Location
Water Supply Well	M-33	Well 39	1009 Jennings Rd. Statesville, NC 28625

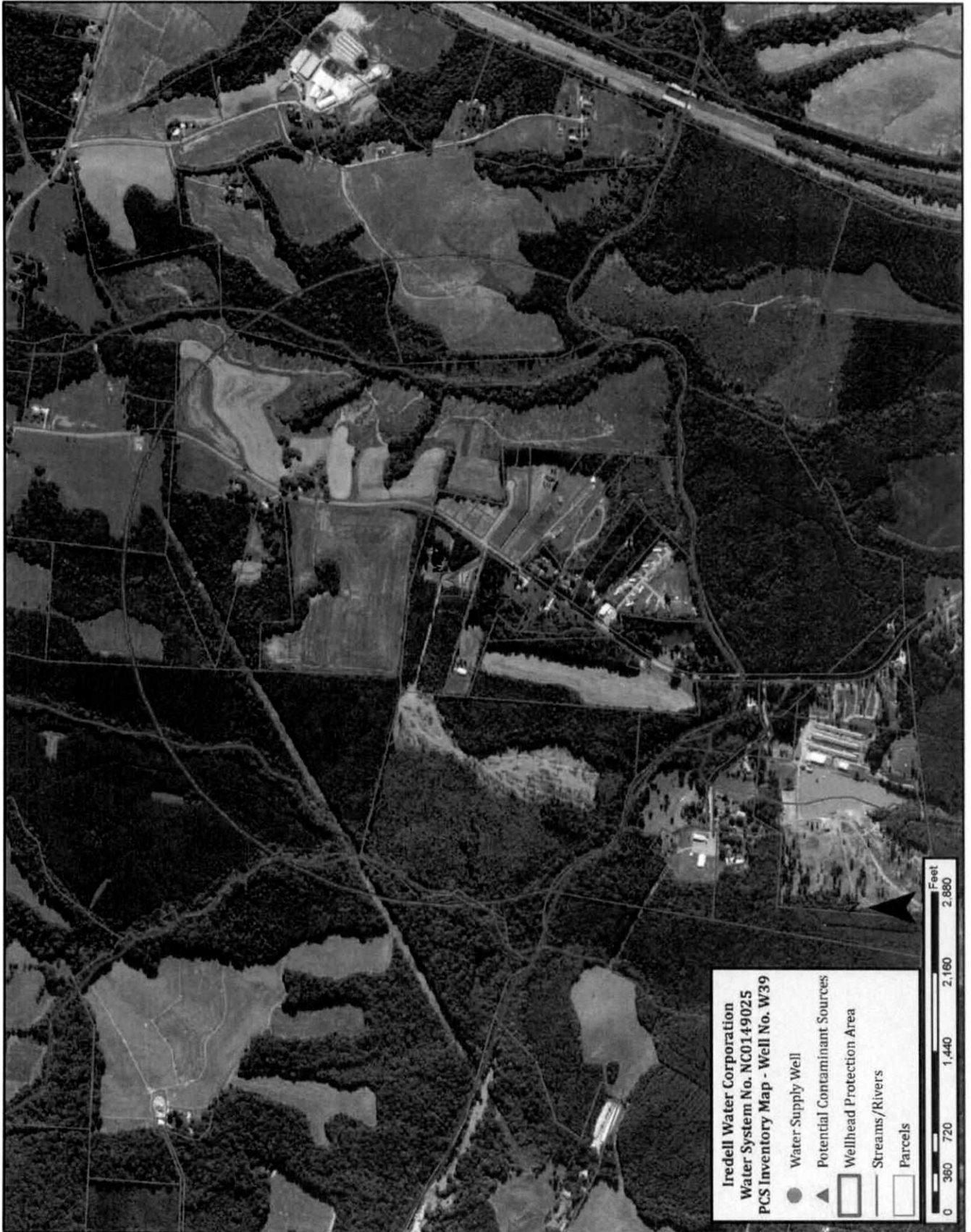




**Iredell Water Corporation**  
**Water System No. NC0149025**  
**PCS Inventory Map - Well No. W39**

- Water Supply Well
- ▲ Potential Contaminant Sources
- Wellhead Protection Area
- Streams/Rivers
- Parcels





Iredell Water Corporation  
Water System No. NC0149025  
PCS Inventory Map - Well No. W39

- Water Supply Well
- ▲ Potential Contaminant Sources
- ▭ Wellhead Protection Area
- Streams/Rivers
- ▭ Parcels



## **Risk Assessment**

For each WHPA, the PCSs were ranked according to the threat each presented to the water supply well or wells. The following method was used to rank each PCS in each WHPA:

Each PCS was assigned to a risk category of higher, moderate, or lower based on information adapted from the EPA (1993), and from the Oregon Wellhead Protection Program. Each PCS was assigned a numerical "category" score to correspond with the risk category (e.g., higher-3, moderate-2, lower-1). Each site of potential contamination was then assigned a "proximity" score calculated with the following equation:

*proximity score = 1 - (distance from the well (or well center point for combined wells) / radius of the WHPA)*

The final PCS ranking was obtained by multiplying the category score by the proximity score for each potential contaminant site. This resulted in a relative ranking of each PCS within a given WHPA based on the threat posed to the water supply well. This risk analysis provided information that was used to determine which water supply well is at greater risk of contamination and which PCSs should be considered first in regards to wellhead protection. Table 35 displays each WHPA by total risk score from highest to lowest. Table 36 presents the PCSs ranked according to their final score from highest to lowest (excluding treatment chemicals at well sites). Each individual WHPA's risk assessment can be found in the Appendix.

## **Risk Analysis Results Summary**

The Wellhead Protection Committee feels that Well 02, Well 34, and Well 14 are at the greatest risk of contamination due to the large number and types of PCS's located within the wellhead protection areas. Due to the close proximity of Well 02 and Well 34, a pumping center was used to calculate the proximity scores in this WHPA. Included in this area are multiple hardware stores, a fencing manufacturing company, a supplier of aquatic management chemicals, multiple Tier II sites, and multiple USTs. The wellhead protection area for Well 14 contains multiple USTs, including one Tier II site, and businesses that utilize machinery, oils, solvents and other chemicals. Also, Well 27 is considered to be at a great risk of contamination due to the close proximity of a municipal lift station, as well as Well 38 due to the proximity of a poultry farm.

The WHPAs were not evaluated based on the percentage of land used for agricultural purposes; however, the Wellhead Protection Committee recognizes the potential contamination to the water supply due to agriculture in the following WHPAs: Well 1, Well 4, Well 16, and Well 21.

These results of the risk assessment were considered when determining priorities in managing the potential contamination sources in an effective manner.



**Table 35. Risk Analysis for each WHPA**

Map Code	Physical Location	Total Risk Score (H to L)
W02	129 James Farm Rd.	17.62
W34	296 Turnersburg Hwy.	
W14	1470 W. Memorial Hwy.	12.91
W10	482 Nixon Rd.	5.59
W20	426 Cooper Farm Rd.	
W29	131 Beaverwood Ln.	5.24
W38	155 Westwinds Lp.	
W16	612 Bell Farm Rd.	3.65
W27	158 Pepper Tree Dr.	3.50
W33	134 Rydel Ln.	2.79
W12	2730 Harmony Hwy.	2.71
W31	183 Foy Ln	2.47
W25	363 Miller Farm Rd.	2.19
W22	176 Harper Dr.	2.05
W23	152 Culpepper Dr.	1.58
W37	2273 S. Chipley Ford Rd.	1.57
W01	114 Deep Water Dr.	1.48
W04	209 Guilford Rd.	1.44
W19	520 N. Greenbriar Rd.	1.37
W26	178 Coolwood Dr.	1.25
W05	531 Bess Rd.	1.14
W15	430 Basset Rd.	1.14
W06	176 Alexander Farm Rd.	1.00
W13	351 S. Greenbriar Rd.	1.00
W18	2122 Old Wilkesboro Rd.	1.00
W21	351 Tomlin Rd.	1.00
W28	260 Rimrock Rd.	1.00
W32	781 N. Chipley Ford Rd.	1.00
W35	345 Bluegill Rd.	1.00
W39	1009 Jennings Rd.	1.00
W11	199 Mitchell Farm Rd.	0.99
W30	121 Fairgate Dr.	0.99
W36	114 Lady Bug Crt	0.99

**Table 36. PCS Listing by Final Score**

Map Code	Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
W27	X-1	Harmony Lift Station	H	1757	374	0.787137166	3	2.36
W38	A-2	Neng Thao	H	3044	864	0.716162943	3	2.15
W14	P-3	Union Grove Tire & Auto	H	1958	577	0.705311542	3	2.12
W14	C-1	Union Grove Saw & Knife, Inc.	H	1958	648	0.669050051	3	2.01
W02,W34	R-2 D-1	R.J. Tobacco Discount Inc.	H	2631	913	0.652983656	3	1.96
W02,W34	T-1	Cygnat Enterprises, Inc.	H	2631	919	0.650703155	3	1.95
W14	K-4 R-5 D-4	7-Eleven #36075	H	1958	728	0.628192033	3	1.88
W12	N-3	Hwy US 21	M	1531	220	0.85630307	2	1.71
W16	FA-1	Burt Bell Farm	M	1384	200	0.855491329	2	1.71
W14	R-6 D-5	Union Grove Quick Stop	H	1958	872	0.5546476	3	1.66
W02,W34	R-1	United Parcel Service	H	2631	1290	0.509692132	3	1.53
W02,W34	N-2	Hwy US 21	M	2631	682	0.740782972	2	1.48
W10	R-3 D-2 W-1	Barker's Grocery	H	2991	1575	0.473420261	3	1.42
W31	N-9	Hwy US 115	M	1664	527	0.683293269	2	1.37
W14	B-1	Joseph K. Edmisten	M	1958	658	0.663942799	2	1.33
W25	G-2	Stables	M	2089	843	0.596457635	2	1.19
W02,W34	H-2	Fairview Church	M	2631	1069	0.593690612	2	1.19
W14	R-7 D-6	Knight's BP	H	1958	1212	0.381001021	3	1.14
W02,W34	P-1	AutoZone Store #4875	H	2631	1634	0.378943368	3	1.14
W33	B-2	Clara Welborn	M	2038	872	0.572129539	2	1.14
W02,W34	Q-1	Crown Castel Cell tower R-Oakwood-James Frm Site: 812886	M	2631	1155	0.561003421	2	1.12
W38	A-3	Roldan Speer	H	3044	1928	0.366622865	3	1.10
W22	N-6	Hwy US 64	M	1787	843	0.528259653	2	1.06
W02,W34	V-1	Five Star Carwash	M	2631	1298	0.506651463	2	1.01
W16	Q-4	Von Bell Farm	M	1384	731	0.471820809	2	0.94
W02,W34	I-1	Iron World	H	2631	1836	0.302166477	3	0.91
W02,W34	O-2	Fort Dobbs Hardware	M	2631	1444	0.451159255	2	0.90
W14	O-4	Ace Hardware	M	1958	1124	0.425944842	2	0.85
W02,W34	K-2 O-3	Home Depot Store #3642	H	2631	1885	0.283542379	3	0.85
W10	P-2	A&A Sales Inc.	H	2991	2194	0.266466065	3	0.80
W02,W34	S-1	Iredell Co. Health Dept.	L	2631	697	0.735081718	1	0.74
W14	Q-2 U-2	Union Grove Lumber	M	1958	1322	0.324821246	2	0.65
W33	FA-2	Blackwelder Dairy	M	2038	1382	0.3218842	2	0.64
W02,W34	H-1	Davidsonville Church	M	2631	1806	0.313568985	2	0.63
W02,W34	K-1 O-1	Lowe's of Statesville Store #0458	H	2631	2093	0.204484987	3	0.61
W23	N-7	Hwy US 115	M	1221	862	0.294021294	2	0.59
W37	S-2	McGrew Chiropractic	L	1696	732	0.568396226	1	0.57
W01	N-1	Hwy 115	M	2330	1771	0.239914163	2	0.48
W20	L-2	Statesville Raw Water Backup Well 1	L	2064	1095	0.469476744	1	0.47
W04	H-3	Piney Grove AME Zion Church Cemetery	M	1645	1279	0.222492401	2	0.44
W20	L-1	Statesville Raw-Water Reservoir	L	2064	1332	0.354651163	1	0.35
W10	R-4 D-3	Royal Express	H	2991	2660	0.110665329	3	0.33
W19	P-4	R&B Diesel Services	H	911	843	0.074643249	3	0.22
W20	L-3	Statesville Raw Water Backup Well 2	L	2064	1619	0.215600775	1	0.22
W26	F-2	Buttke Dairy Farm	H	2261	2110	0.066784609	3	0.20
W14	N-4	Hwy 77	M	1958	1778	0.091930541	2	0.18
W19	N-5	Hwy US 64	M	911	843	0.074643249	2	0.15
W27	N-8	Hwy 901	M	1757	1630	0.072282299	2	0.14
W05	F-1	GGG Farms	H	1255	1196	0.047011952	3	0.14
W15	A-1	Poultry Operation	H	1638	1562	0.046398046	3	0.14
W31	FA-1	Hilltop Farm Lagoon	M	1664	1572	0.055288462	2	0.11
W14	U-1	G & G Forest Products	H	1958	1900	0.029622063	3	0.09
W26	H-4	Chestnut Grove Cemetery	M	2261	2204	0.025210084	2	0.05

## **MANAGEMENT OF THE WELLHEAD PROTECTION AREA**

There are two methods of managing a Wellhead Protection Area, regulatory or non-regulatory. Iredell Water Corporation has selected a non-regulatory approach to manage the wellhead protection area, which will include the following:

### **Public Education**

A Wellhead Protection Brochure (tri-fold) or a newsletter will be delivered to each resident, business, agricultural operation and industry within each Wellhead Protection Area. Copies of this newsletter/brochure will be made available at the Iredell Water Corporation Administrative office and Maintenance Facility located at 571 Jennings Rd., Statesville, NC 28625 and other locations deemed necessary for public education on Wellhead Protection. In general, the brochure will convey to each citizen/business the following information:

- An explanation of what groundwater is and the number of wells in their particular system
- An explanation of what a Wellhead Protection Program is
- Sources of groundwater pollution
- Tips on protecting their water supply
- Phone numbers to contact for more information
- Proper disposal of household hazardous wastes and oils
- Proper use of fertilizers, herbicides, and pesticides
- Information on household hazardous waste collection opportunities
- Proper maintenance of home heating oil tanks and septic systems

### **Waste Management Practices**

Iredell Water Corporation will provide information to each business, industry, and farm located within the WHPAs on waste handling practices, best management practices, standard operating procedures, and waste oil disposal methods which could be employed to reduce the potential for ground water contamination. IWC will also provide information regarding the North Carolina Division of Environmental Assistance and Customer Service (DEACS) to each business located within the WHPAs. Owners/operators of potential contamination sources will be encouraged to contact DEACS. DEACS provides free technical and other non-regulatory assistance to reduce the amount of waste released into the air and water and on the land. DEACS serves as a central repository for waste reduction and pollution prevention information. DEACS emphasizes waste reduction through pollution prevention, encourages companies and government agencies to go beyond compliance, and provides information about the environmental permitting process. This information is provided at no charge to North Carolina businesses, industries, government agencies, and the general public upon request. For additional information, DEACS may be contacted at (919) 707-8100 or (877) 623-6748. For environmental emergencies, the agency can be contacted at (800) 858-0368.

The Iredell County Solid Waste Department, along with the Town of Mooresville, conducts two Household Hazardous Waste Collection Days during the calendar year. Common items accepted are batteries, paint, cleaners, oils, pesticides, fluorescent light bulbs, acids, and thermometers. These events are held on the last Saturday of April and September annually with a chemist onsite to identify materials. This event is offered as a community service to the residents of Iredell County and is not open to businesses, institutions or industry. For more information, call (704) 878-5430. In addition, Iredell County Solid Waste Department, in conjunction with the NC Cooperative Extension, offers free pesticide, insecticide, fungicide, and herbicide disposal at this event to farmer's in the area. Throughout the remainder of the year there is a Pesticide Container Recycling program where plastic pesticide containers are accepted at the Twin Oaks Transfer Center located 354 Twin Oaks Rd. Statesville NC 28625 and at the Harmony 901 Transfer Station located at NC 901 Highway, Union Grove, NC 28689. More detailed information relating to Solid Waste/Recycling may be found at: <https://www.co.iredell.nc.us/333/Solid-Waste>. A listing of all Iredell County Solid Waste Site Locations can be found in the Appendix.

### **Personnel Training**

Personnel at Iredell Water Corporation will be educated on Wellhead Protection and steps they can take to reduce the potential for contamination (e.g., information about best management practices, standard operating procedures, waste handling practices, etc.). In addition, staff will be trained on how to handle contamination events. IWC will also contact the DEACS to investigate steps that IWC can take to reduce the amount of waste released into the air and water and on the land at IWC owned and/or managed facilities.

### **Improperly Constructed or Abandoned Wells**

In the instance that an improperly constructed or abandoned well is discovered and identified within the WHPAs, the owner will be provided information regarding the threat posed to the water supply by these wells. Owners of improperly constructed or abandoned wells will be encouraged to have these wells properly abandoned in accordance with state well construction standards found in 15A NCAC 2C, "Criteria and Standards Applicable to Water Supply and Certain Other Wells". If information exists that a well is improperly constructed or is contributing to the contamination of groundwater, Iredell Water Corporation will notify the Ground Water Protection Section of the NC Division of Environmental Quality.

### **Underground Storage Tanks**

A regulated UST system is any underground storage tank and associated piping that contains petroleum (including gasoline, diesel and used oil) or a hazardous substance as defined by the State rules (15A NCAC 2N). Tanks containing heating oil for use on the premises where stored are not regulated.

All owners/operators of regulated underground storage tanks (USTs) and other facilities subject to federal and/or state regulations located within the WHPA will be requested to supply documentation that their facility is in compliance with said regulations. Operators of UST's will be asked to supply IWC with a copy of their UST permit. If any UST sites are found

to be non-compliant, the Underground Storage Tank Section of the NC Division of Waste Management of DEQ will be notified.

If an abandoned UST site is found, IWC will contact the North Carolina Division of Waste Management, UST Section, to determine if a closure report was submitted demonstrating that no soil or groundwater contamination was identified during the removal of UST's. If a closure report was not submitted, IWC will notify the UST Section of the location of the facility within the WHPA and its proximity to a public water supply well.

For soil or ground-water contamination incidents occurring within a WHPA, Iredell Water Corporation will contact the State agencies with oversight responsibilities for remediation to determine if remediation efforts are proceeding in a timely fashion and in accordance with any schedules established by these agencies. Through this process, the Corporation will bring to the attention of the State agencies with oversight responsibilities for remediation any failures by the responsible parties to comply with required monitoring and corrective action. Iredell Water Corporation will also notify the State agencies with oversight responsibilities for remediation of the location of the facility within the WHPA and its proximity to a public water supply well. Iredell Water Corporation will also contact the State agencies with oversight responsibilities for the contamination incidents and notify them of the locations of the sites issued notices of "No-Further Action" occurring within the WHPAs and will request a review of this assessment.

IWC will notify any individual, industry, business, or government agency installing or planning to install a regulated underground storage tank within wellhead protection areas of the following regulation: North Carolina Underground Storage Tank (UST) Regulation 15A NCAC 2N .0301 stipulates specific siting and secondary containment requirements for UST systems installed after January 1, 1991. The rule is summarized as follows:

- No UST system may be installed within 100 feet of a public water supply well or within 50 feet of any other well used for human consumption.
- Secondary containment is required for UST systems within 500 feet of a well serving a public water supply or within 100 feet of any other well used for human consumption.

Violations of this regulation will be reported to the Division of Waste Management, Underground Storage Tank Section. The UST Section will also be notified of the location of the facility within the WHPA and its proximity to a public water supply well or any other well used for human consumption. \*

### **Above Ground Storage Tanks**

\*Owners/facilities with an underground buried storage capacity of more than 42,000 gallons of oil, or an aggregate aboveground storage capacity greater than 1,320 gallons of oil, or an aboveground storage capacity of a single container in excess of 660 gallons are subject to the Oil Pollution Prevention regulations contained in Federal Regulations found in 40 CFR 112. In most cases, these facilities must prepare and implement a Spill Prevention Control and Countermeasures (SPCC) Plan. IWC will request a copy of the spill plan for each UST/AST

facility located within the WHPAs that require such document. The North Carolina General Statutes require registration of any facilities storing more than 21,000 gallons of petroleum product. Facilities with subject storage capacity found not to be in compliance with this regulation will be notified of their regulatory responsibility under this regulation. The WPC should also notify the Division of Environmental Quality, Ground Water Section, if such facilities do not promptly come into compliance.

### **Residential, Municipal, and Industrial Wastewater Discharge**

All farms, residents, businesses, and industries in the WHPAs with septic tanks and home heating oil tanks will be distributed a copy of the Wellhead Protection Brochure tri-fold and any other information IWC can obtain from federal, county and/or state agencies on proper septic tank and heating oil tank maintenance. IWC will obtain standard operating procedures for the maintenance of any wastewater collection system (including lift stations) operating in any WHPA. IWC will also obtain annual wastewater reports from owners of municipal wastewater collection systems providing services in WHPAs. Reports will be reviewed to ensure that adequate maintenance, including but not limited to the interior cleaning of sewage lines, is performed routinely to reduce the potential for sanitary sewer overflows as required by the NCWQCS permits. Sanitary sewer overflow information can be obtained from the Division of Environmental Quality, Water Quality Section, at the Mooresville Regional Office by calling (704) 663-1699.

IWC will contact the Division of Water Quality regarding facilities permitted to discharge wastewater to the land surface (Non-NPDES Permitted Facilities) to determine if any such operations located within the WHPA are in compliance with applicable regulatory and permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements. Notification will be made to the Division of Water Quality if it is determined that the facility has failed to maintain compliance with any regulatory and/or permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements. IWC does not discharge water or wastewater of any sort onto the land surface and therefore is not a Non-NPDES Permitted facility.

IWC will contact the Division of Water Quality regarding facilities with NPDES permits to determine if all such NPDES discharges are in compliance with applicable regulatory and permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements. Notification will be made to the Division of Water Quality if it is determined that the facility has failed to maintain compliance with any regulatory and/or permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements.

### **Pesticide Handling and Disposal**

IWC will contact all facilities or agricultural operations within the WHPAs with pesticide storage or otherwise involved with the application of pesticides to ensure that they are pesticide operators licensed by the State of North Carolina and that proper records are maintained to ensure that all NC Pesticide Laws are adhered to. IWC will provide information to these facilities or agricultural operations on waste handling practices, best management practices, standard operating procedures, and proper waste disposal methods

which could be employed to reduce the potential for ground water contamination. These facilities will also be provided with information regarding the NC DEACS.

### **Animal Operations**

IWC will contact the Division of Environmental Quality (DEQ) regarding any lagoons or animal operations located within its WHPAs if they suspect they may contaminate the ground water supply. It will also determine if facilities are in compliance with any regulatory and/or permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements. Notification will be made to the Division of Environmental Quality if it is determined that a facility has failed to maintain compliance with any regulatory and/or permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements. A Wellhead Protection Brochure (tri-fold) or a newsletter will be delivered to each animal operations facility, in addition to information on best management practices.

## **CONTINGENCY PLAN**

The primary person responsible for implementing the emergency contingency plan is the Iredell Water Corporation Manager/ORC, Keith Snoddy. The back-up individuals responsible for implementation are Assistant Managers Danny Sloan and Curtis Meyer, both system ORCs.

Should a major oil or chemical spill occur within a Wellhead Protection Area, appropriate emergency agencies would be notified. The first of these would include the Fire Marshall office and the Iredell County Emergency Management Coordinator.

**Iredell County Emergency Coordinator: (704) 878-5353**

### **Short term contingency plan (less than 48 hours)**

The Iredell Water Corporation water system owns eight elevated storage tanks & one ground storage tank, with a total combined storage capacity of 2,150,000 gallons. Its average daily usage is approximately 1,720,000 gallons. This confirms that the system has enough water stored for a little over a day's use. The water system is connected to two other water systems, allowing Iredell Water to receive water from the City of Statesville or Energy United Water Corporation. Electrical services are provided by two different electric utility companies throughout the service area from multiple transmission areas. If power is lost to the wells there are emergency generators available to supply power to the highest producing wells.

### **Long term contingency plan**

If evidence exists that indicates that a well is contaminated, it will immediately be taken off line and not returned to service until it is determined that water quality from the impacted well is in compliance with standards governing public water supplies. If one of Iredell Water Corporation's wells were to become contaminated, it would be isolated from the rest of the system by shut-off valve. If it were determined that contaminants had entered the distribution system, residents would be notified by radio, TV, newspaper, door-hangers, etc.

not to drink the water until further notice. The Mooresville Regional Office of the Public Water Supply Section would be notified immediately of the situation and asked for assistance. Sampling (i.e. bacteriological, VOCs, SOCs, etc.) would begin to determine the contaminant involved and the extent of contamination. A systematic flushing of the distribution system would begin with follow-up sampling conducted as needed until the system was determined to be free of contamination and in compliance with standards governing public water supplies. After consultation with the Public Water Supply Section, residents would be notified that Iredell Water Corporation's water was once again safe for consumption.

Emergency contact resources and information are found in the appendix. This comprehensive listing includes contact information for emergency contacts, local utilities, local resources, county and municipal fire departments, and state and national agencies.

## **IMPLEMENTING, MAINTAINING AND UPDATING THE WHP PLAN**

### **Public Participation**

Iredell Water Corporation will post a notice in the local newspaper, the Statesville Record and Landmark explaining to its citizens what a Wellhead Protection Plan is and how they have the opportunity to review Iredell Water Corporation's WHPP update and make comments. A draft copy of the narrative section of the Iredell Water Corporation Wellhead Protection Plan will be made available for a thirty (30) day period at the Iredell Water Corporation Administrative and Maintenance facility located at 571 Jennings Rd., Statesville, NC 28625 phone: (704) 876-0672. Any substantive comments received from the public will be considered for incorporation into the final updated version of the Iredell Water Corporation's WHPP. A copy of the public notification showing the date the notification was published will be included within this document.

### **New Public Water Supply Wells**

Iredell Water Corporation will amend its Wellhead Protection Plan to include any new well(s) added to its water system. The following steps will be taken to address any new wells added to the water system.

1. Develop a preliminary WHPA for the proposed well in order to determine the area of vulnerability.
2. Develop a PCS inventory for the preliminary WHPA.
3. Submit the information obtained in items 1 and 2 above to IWC Board of Directors and to the WPC. Any information required by the Public Water Supply Section (PWSS) relating to the development and construction of new public water supply (PWS) wells must also be submitted.
4. If the WPC and other officials grant provisional approval of the proposed WHP Plan and the PWSS grants approval to construct or expand the PWS well or well system, then work may proceed with well construction.
5. Finalize the WHPA delineation for the new well.
6. Finalize the PCS inventory for the WHPA(s).
7. Submit finalized WHPA and PCS inventory to the WPC.



8. Once approval is received, implement any necessary regulatory and or non-regulatory potential source management practices.
9. Submit the amended WHP Plan and all necessary supporting information to the PWSS for review and approval.

### **Future Wellhead Protection**

Iredell Water Corporation is aware that an effective local Wellhead Protection (WHP) Program is an ongoing process requiring monitoring of the Wellhead Protection Areas (WHPA) and periodic review and updating of an approved WHP plan. Therefore, IWC system officials and/or WPC will monitor the Wellhead Protection Area (WHPA) for any new or previously unidentified potential contaminant sources (PCS's) and activities occurring within the approved WHPA. IWC will amend the PCS inventory and other Plan components (e.g. the management strategies, emergency contingency plan, etc.) as necessary to incorporate any new threats to the systems groundwater sources of drinking water. Additionally, the PCS inventory will be updated annually using the same procedures used to develop the original PCS inventory. IWC will also fully update the WHP Plan every five years or at any time a new well is constructed for use with the water supply system or a major land use change occurs within a WHPA. The individual responsible for implementation of the WHP Plan will submit notification to the Public Water Supply Section annually upon completion of the PCS inventory update or immediately following the completion of a major revision. Any amended or revised sections of the approved WHP Plan resulting from an update or revision will also be submitted upon completion.

## **APPENDIX**

- Emergency Contact Resources and Information
- Potential Contamination Sources by Risk Category
- Potential Contaminant Source Data Charts
- WHPA Risk Assessments
- Iredell County Solid Waste Site Locations
- Glossary of Acronyms and Abbreviations
- References
- Well Construction Records
- Well Pump Test Results

## Emergency Contact Resources and Information

Resources	Contact Information
<b>Primary Emergency Respondent</b>	Name: <b>Keith Snoddy</b> Title: <b>Manager/ORC</b> Home #: 704-878-6028 Mobile #: 704-876-0672
<b>Secondary Emergency Respondent</b>	Name: <b>Danny Sloan</b> Title: <b>Assistant Manager/ORC</b> Home #: 704-539-4292 Mobile #: 704-902-6483
<b>Third Emergency Respondent</b>	Name: <b>Curtis Meyer</b> Title: <b>Assistant Manager/ORC</b> Home #: 704-872-6126 Mobile #: 704-902-6477
<b>Local Utilities</b>	
<b>Water Provider</b>	Facility: <b>Statesville Water Resources</b> Contact #: 704-878-438 Facility: <b>Energy United Water Corp.</b> Contact #: 704-583-6518
<b>Power Company</b>	Facility: <b>EnergyUnited</b> Contact #: 704-873-5241 Facility: <b>Duke Energy</b> Contact #: 800-777-9898
<b>Local Resources</b>	
<b>Emergency Management and Fire Dept. Dispatch</b>	Facility: <b>Iredell County EM</b> Coordinator: <b>G. Paul Webster</b> Office #: 704-878-5097 Main #: 704-878-5353
<b>Health Department</b>	Facility: <b>Iredell County Health Department</b> Contact #: 704-878-5300
<b>Hospital</b>	Facility: <b>Iredell Memorial Hospital</b> Contact #: 704-873-5661 Facility: <b>Davis Regional Hospital</b> Contact #: 704-873-0281
<b>EMS</b>	Facility: <b>Iredell County EMS</b> Contact #: 704-878-3025 Emergency #: 911
<b>Sheriff's Office</b>	Facility: <b>Iredell County Sheriff's Department</b> Contact #: 704-873-3180 Emergency #: 911
<b>Local Television</b>	Facility: <b>WBTV - News Channel 3</b> Contact #: 704-374-3698 Facility: <b>WSOC-TV Channel 9</b> Contact #: 704-335-4871
<b>Local Radio</b>	Facility: <b>WSIC - 100.7 FM</b> Contact #: 704-872-6345 Facility: <b>WSIC - 1400 AM</b> Contact #: 704-872-6345
<b>Local Newspaper</b>	Facility: <b>Statesville Record &amp; Landmark</b> Contact #: 704-873-1451 Facility: <b>Charlotte Observer</b> Contact #: 704-873-1055

<b>State &amp; National Agencies</b>	
<b>Technical Assistance Water Regulatory Agency</b>	Facility: <b>Public Water Supply Section</b> Address: 1634 Mail Service Center Raleigh, NC 27699-1634 Contact #: 919-715-2853
<b>Regional Water Quality, SSO's, UST Section, Aquifer Protection Section, Hazardous Waste Section Spills</b>	Facility: <b>DEQ - Mooresville Regional Office</b> Address: 610 E Center Avenue Mooresville, NC 28115 Contact #: 704-663-1699
<b>NC Department of Transportation</b>	Facility: <b>NC DOT</b> Contact: Highway Division 12, District 2 Address: 124 Prison Camp Rd. Statesville, NC 28625 Contact #: 704-380-6040
<b>NC Army National Guard</b>	Facility: <b>NC Army National Guard</b> Address: 345 Hartness Rd. Statesville, NC 28677 Contact #: 704-871-0283
<b>Technical Assistance Education</b>	Facility: <b>NCRWA</b> Address: PO Box 590 Welcome, NC 27374 Contact #: 336-731-6963
<b>Educational Brochures Publications</b>	Facility: <b>NC Coop. Ext. Services - NCSU</b> Address: Campus Box 7602 Raleigh NC 27695-7602 Contact #: 919-515-2811 Website: <a href="http://www.bae.ncsu.edu">www.bae.ncsu.edu</a>
<b>AST Information</b>	Facility: <b>US EPA Regional Office</b> Address: 61 Forsyth St SW Atlanta, GA 30303 Contact #: 404-562-8761 Website: <a href="http://www.epa.gov/oilspill">www.epa.gov/oilspill</a>
<b>Educational Brochures Publications (GW &amp; UIC Section)</b>	Facility: <b>US EPA Regional Office</b> Address: 61 Forsyth St SW Atlanta, GA 30303 Contact #: 404-562-8761 Website: <a href="http://www.epa.gov">www.epa.gov</a>
<b>EPA Spill Reporting</b>	Facility: <b>US EPA Regional Office</b> Contact #: 1-800-241-1754
<b>Technical &amp; Non-regulatory Waste Reduction Assistance</b>	Facility: <b>NC DEACS</b> Address: 1639 Mail Service Center Raleigh, NC 27699-1639 Contact #: 919-707-8100 Website: <a href="http://ncenvironmentalassistance.org/">http://ncenvironmentalassistance.org/</a>
<b>Source Water Protection Educational Materials</b>	Facility: <b>National Small Flows Clearinghouse West Virginia University</b> Address: PO Box 6064 Morganton, WV 26506-6064 Contact #: 1-800-624-8301 Website: <a href="http://www.nesc.wvu.edu/smart/products/education.cfm">http://www.nesc.wvu.edu/smart/products/education.cfm</a>

# Potential Contamination Sources by Risk Category

## Higher Risk Potential Contamination Sources for Ground Water PWS Systems

### COMMERCIAL/INDUSTRIAL

- Automobile Body shops
  - Gas stations
  - Repair shops
- Chemical /petroleum processing/storage
- \*Sewer lines
- Utility right-of-way/pesticide use
- Chemical/petroleum pipelines
- Wood/pulp/paper processing and mills
- Dry cleaners
- Electrical/electronic manufacturing
- Fleet/trucking/bus terminals
- Furniture repair/manufacturing
- Home manufacturing
- Junk/scrap/salvage yards
- Machine shops
- Metal plating/finishing/fabricating
- Mines/sand or gravel excavations
- Parking lots/malls (>50 spaces)
- Photo processing/printing
- Plastics/synthetics producers
- Research laboratories

### OTHER

- Road salt storage areas
- Military installations  
(for classified risks not otherwise listed)

### AGRICULTURAL/RURAL

- Farm machinery repair
- Rural machine shops
- \*Intensive livestock operations; Lagoons, spray fields
- Fertilizer, pesticide, and petroleum storage, distribution, handling, mixing, and cleaning areas
- \*Sewage sludge (biosolids) storage, handling, mixing and cleaning areas
- \*Sewage sludge (biosolids) land application
- Unauthorized/illegal disposal of wastes/chemicals

### RESIDENTIAL/MUNICIPAL

- Airports - maintenance/fueling areas
- Railroad yards/maintenance/fueling areas
- Landfills/dumps
- Utility stations - maintenance areas
- \*Septic systems - high density (>1/acre)
- \*Sewer lines
- \*Stormwater drains/discharges
- Fertilizer, pesticide, sewage sludge

- Notes: 1. This is a list of potential sources of contamination not a list of known databases of contaminants.
2. Higher risk potential contaminant sources are considered to have a higher potential for drinking water contamination than those designated moderate risk or lower risk Facility-specific management practices are not taken into account in estimating risks and assigning these categories.
3. An asterisk [\*] indicates activities that may be associated with microbiological contamination.

## Potential Contamination Sources by Risk Category (Con't)

### Moderate Risk PCSs

#### **COMMERCIAL/INDUSTRIAL**

- Car washes
- Cement/concrete plants
- Food processing
- Hardware/lumber/parts stores

#### **AGRICULTURAL/RURAL**

- \*Auction lots
  - \*Boarding stables
  - Crops, irrigated (berries, Christmas trees, hops, mint, orchards, vineyards, nurseries, greenhouses, vegetables, sod)
- NOTE: Drip-irrigated crops are considered lower risks.
- Drinking water treatment plant residuals/sludge application

#### **RESIDENTIAL/MUNICIPAL**

- Drinking water treatment plants
- Golf courses
- Housing - high density (>1 house/.5 acres)
- Motor pools
- Parks
- Waste transfer/recycling stations
- Wastewater treatment plants
- collection stations

#### **OTHER**

- Above ground storage tanks
- Construction/demolition areas
- Hospitals
- Transportation corridors
  - Freeways/state highways
  - Railroads
  - Right-of-way maintenance (herbicide use areas)
- Irrigation, water supply, or monitoring wells

### Lower Risk PCSs

#### **COMMERCIAL/INDUSTRIAL**

- Office buildings/complexes
- RV/mini storage

#### **AGRICULTURAL/RURAL**

- Crops, non-irrigated (grains, grass seeds, hay)
- \*Rangeland
- Managed forests/silviculture

#### **RESIDENTIAL/MUNICIPAL**

- Apartments and condominiums
- Campgrounds/RV parks
- Fire stations
- Schools
- Housing – low density (< 1 house/.5 acres)

#### **OTHER**

- Medical/dental offices/clinics
- Veterinary offices/clinics

**SOURCE: Adapted from EPA (1993), and from the Oregon Wellhead Protection Program**

## Potential Contaminant Source Data Charts

**Well Site: W01 - 114 Deep Water Dr.**

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-1	Well 1	114 Deep Water Dr. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	165 gal	35.913728	-80.958970
Transportation Corridor	N-1	Hwy 115	NC Hwy 115	M	NC Division of Highways 124 Prison Camp Rd Statesville, NC 28625 (704) 876-3543	Spills, Herbicides	Various	35.915470	-80.953374

**Well Site: W04 - 209 Guilford Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Church/Cemetery	H-3	Piney Grove AME Zion Church Cemetery	145 Fox Hunter Rd. Harmony, NC 28634	M	Piney Grove AME Zion Ch. 145 Fox Hunter Rd. Harmony, NC 28634 (704)546-2799	Biological Waste	Small	35.930550	-80.719400
Water Supply Well	M-8	Well 4	209 Guilford Rd. Harmony, NC 28634	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	90 gal	35.929834	-80.715165

**Well Site: W05 - 531 Bess Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Dairy Farm	F-1	GGG Farms	635 Bess Rd. Statesville, NC 28625	H	GGG Farms James Carroll Goodman 1030 Friendship Rd. Statesville, NC 28625 (704) 876-3922	Dairy Farm, Animal Waste	-	35.951940	-80.907680
Water Supply Well	M-9	Well 5	531 Bess Rd. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Waterworx	55 gal 10 gal	35.948569	-80.907442

**Well Site: W06 - 176 Alexander Farm Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-11	Well 6	176 Alexander Farm Rd. Harmony, NC 28634	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Waterworx	35 gal 10 gal	35.940993	-80.770787



Well Site: W02 - 129 James Farm Rd.  
Well Site: W34 - 296 Turnersburg Hwy.

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Church/Cemetery	H-1	Davidsonville Church	422 Turnersburg Hwy. Statesville, NC 28625	M	Davidsonville Baptist Ch. 422 Turnersburg Hwy Statesville, NC 28625 (704) 872-7776	Biological Waste	Small	35.826250	-80.874870
Church/Cemetery	H-2	Fairview Church	349 Turnersburg Hwy. Statesville, NC 28625	M	Fairview Baptist Ch. 349 Turnersburg Hwy. Statesville, NC 28625 (704) 872-4246	Biological Waste	Small	35.821460	-80.877130
Industry	I-1	Iron World	214 James Farm Rd. Statesville, NC 28625	H	Steldep, LLC 214 James Farm Rd. Statesville, NC 28625 (888) 428-3415	Paints, Solvents, Metals, Oils, Lubricants	Large Stock and Heavy Manufacturing	35.818860	-80.868000
Tier II Site Hardware Store	K-1 O-1	Lowe's of Statesville Store #0458	140 N. Pointe Blvd. Statesville, NC 28625	H	Venture Properties 140 N. Pointe Blvd. Statesville, NC 28625 (704) 878-9440	Paints, Chemicals, Oils, Solvents		35.817570	-80.878880
Tier II Site Hardware Store	K-2 O-3	Home Depot Store #3642	240 Turnersburg Hwy. Statesville, NC 28625	H	HD Development 240 Turnersburg Hwy. Statesville, NC 28625 (704) 872-5942	RCRA Generator Transporter		35.816000	-80.874020
Water Supply Well	M-2	Well 2	129 James Farm Rd. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Caustic	110 gal 265 gal	35.822100	-80.873367
Water Supply Well	M-3	Well 34	296 Turnersburg Hwy. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	55 gal	35.819297	-80.873530
Transportation Corridor	N-2	Hwy US 21	Hwy US 21	M	NC Division of Highways 124 Prison Camp Rd Statesville, NC 28625 (704) 876-3543	Spills/Herbicides	Various	35.821200	-80.875800
Hardware Store	O-2	Fort Dobbs Hardware	109 Northcross Ln. Statesville, NC 28636	M	True Value 406 Turnersburg Hwy. Statesville, NC 28625 (704)872-2300	Fertilizers Paint	75 Tons 500 gal	35.825240	-80.874670
Auto Parts/Repair	P-1	Autozone Store #4875	Adjacent to 214 James Rarm Rd., Statesville	H	D Kotroisios C/O AutoZone PO Box 2198 Memphis, TN 38101 (704) 871-2636	Oils, Paints	Small	35.817680	-80.876870
Above Ground Storage Tank	Q-1	Grown Castel Cell tower R-Oakwood-James Frm Site: 812886	147 Parcel Dr. Statesville, NC 28625	M	Crown Castle Adl. to Iron World Steldep, LLC	AST (DIESEL) Emergency generator	200 gal	35.820600	-80.869610
Underground Storage Tank	R-1	United Parcel Service	308 Turnersburg Hwy. Statesville, NC 28625	H	United Parcel Service 147 Parcel Dr. Statesville, NC 28625 (800) 742-5877	Gasoline Cert. 20150602501 Fac. #0-031535	10,000 gal	35.818090	-80.871120
Underground Storage Tank Gas Station	R-2 D-1	R.J. Tobacco Discount Inc.	318 Turnersburg Hwy. Statesville, NC 28625	H	Davis Oil Co. C.O. United Oil 308 Turnersburg Hwy. Statesville, NC 28625 (704) 872-5522	Gasoline Cert. 20150319101 Fac. #0-021890	10,000 gal (1) 4,000 gal (2)	35.819350	-80.875630
Medical/Dental/Clinic/ Vet	S-1	Iredell Co. Health Dept	132 Parcel Dr. Statesville, NC 28625	L	Iredell County 200 S. Center St Statesville, NC 28625 (704) 878-5440	Pharmaceuticals, Sterilants, Disinfectants, Cleaning Chemicals	Small	35.820080	-80.875430
Chemical Mixing/Storage	T-1	Cygnnet Enterprises, Inc	132 Parcel Dr. Statesville, NC 28625	H	Cygnnet Enterprises, Inc. 132 Parcel Drive Statesville, NC 28625 (704) 883-8833	Aquatic Mgt Products: Algaecides, Herbicides, Dyes		35.819300	-80.871490
Carwash	V-1	Five Star Carwash	108 Venture Ln. Statesville, NC 28625	M	Five Star Associates, LLC Timothy Banks, Manager 108 Venture Ln Statesville, NC 28625 (704) 873-6606	Solvents	Small	35.818727	-80.876633

Well Site: W10 - 482 Nixon Rd.  
Well Site: W20 - 426 Cooper Farm Rd.

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Source Water/Surface Water	L-1	Statesville Raw-Water Reservoir	Nixon Rd. Statesville, NC 28625	L	City of Statesville 301 S. Center St. Statesville, NC 28687 (704) 878-3585	Contaminants that may enter the groundwater through stored/surface water	-	35.841840	-80.884540
Source Water/Surface Water	L-2	Statesville Raw Water Backup Well 1	Nixon Rd. Statesville, NC 28625	L	City of Statesville 301 S. Center St. Statesville, NC 28687 (704) 878-3585	Contaminants that may enter the groundwater through stored/surface water	Used as backup raw water supply during drought or emergencies	35.822530	-80.886366
Source Water/Surface Water	L-3	Statesville Raw Water Backup Well 2	Nixon Rd. Statesville, NC 28625	L	City of Statesville 301 S. Center St. Statesville, NC 28687 (704) 878-3585	Contaminants that may enter the groundwater through stored/surface water	Used as backup raw water supply during drought or emergencies	35.840683	-80.883117
Water Supply Well	M-4	Well 10	482 Nixon Rd. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	110 gal	35.842295	-80.373610
Water Supply Well	M-5	Well 20	426 Cooper Farm Rd. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	110 gal	35.839763	-80.888525
Auto Parts/Repair	P-2	A&A Sales Inc.	618 Turnersburg Hwy. Statesville, NC 28625	H	Teresa Alexander 618 Turnersburg Hwy. Statesville, NC 28625 (704) 876-6700	Waste Oils, Solvents, Motor Oils	Small	35.836680	-80.870740
Underground Storage Tank Gas Station PIRF Incident	R-3 D-2 W-1	Barker's Grocery	104 Houpe Rd. Statesville, NC 28625	H	BerOTH Oil Co. PO Box 489 Winston Salem, NC 27105 (336) 767-0612	Gasoline Diesel Kerosene <b>PIRF Inc. #8489</b> Cert. 20140079501 Fac. #0-027378	8,000 gal (3) 4,000 gal 2,000 gal	35.840950	-80.868470
Underground Storage Tank Gas Station	R-4 D-3	Royal Express	583 Turnersburg Hwy. Statesville, NC 28625	H	J.T. Alexander & Son PO Box 88 Mooresville, NC 28115 (704) 876-6650	Gasoline Cert. 20130094901 Fac. #0-026557	10,000 gal (1) 8,000 gal (1)	35.835040	-80.872980

Well Site: W11 - 199 Mitchell Farm Rd.

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-12	Well 11	199 Mitchell Farm Rd.	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Waterworx	55 gal	35.903000	-80.850100

**Well Site: W12 - 2730 Harmony Hwy.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-13	Well 12	2730 Harmony Hwy. Harmony, NC 28634	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	55 gal	35.925347	-80.788593
Transporation Corridor	N-3	Hwy US 21	Hwy US 21	M	NC Division of Highways 124 Prison Camp Rd Statesville, NC 28625 (704) 876-3543	Spills, Herbicides	Various	35.925726	-80.78921

**Well Site: W13 - 351 S. Greenbriar Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-14	Well 13	351 S. Greenbriar Rd. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Waterworx	55 gal 10 gal	35.789723	-80.827946

**Well Site: W15 - 430 Basset Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Poultry Operation	A-1	Poultry Farm	385 Basset Rd. Olin, NC 28660	H	Charles Lee Hoots 385 Bassett Rd. Olin, NC 28660	Nitrogen, Phosphorus, Pathogens, Organic Matter		36.005840	-80.864130
Water Supply Well	M-16	Well 15	430 Basset Rd. Olin, NC 28660	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Waterworx	110 gal 10 gal	36.006690	-80.858891

**Well Site: W16 - 612 Bell Farm Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Abandoned Dairy Farm	FA-3	Burt Bell Farm	594 Bell Farm Rd. Statesville, NC 28625	M	Burt Bell 594 Bell Farm Rd. Statesville, NC 28625 (704) 872-1292	Inactive Dairy Farm Abandoned approx. 2012	Inactive lagoon filled in - 60'x60'x15' 403,920 gal	35.780428	-80.795882
Water Supply Well	M-17	Well 16	612 Bell Farm Rd. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	55 gal	35.780171	-80.795153
AST	Q-4	Von Bell Farm	553 Bell Farm Rd. Statesville, NC 28625	M	Von Bell 553 Bell Farm Rd. Statesville, NC 28625	Diesel Fuel	200 gal (3)	35.782100	-80.794150

Well Site: W14 - 1470 W. Memorial Hwy.

PCS Site	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Poultry Farm (Abandoned)	B-1	Joseph K. Edmisten 135 Sawtooth Ln. Harmony, NC 28689	135 Sawtooth Ln. Harmony, NC 28689	M	Joseph K. Edmisten 130 Mullis Rd. Harmony, NC 28634	Nitrogen, Phosphorus, Pathogens, Organic Matter		36.012680	-80.840890
Machine Shop	C-1	Union Grove Saw & Knife, Inc.	157 Sawtooth Ln. Union Grove, NC 28689	H	Union Grove Saw & Knife, Inc. 157 Sawtooth Ln. Union Grove, NC 28689 (704) 539-4442	FLC - 340 grinding fluid FLC - 350 grinding fluid	55 gal Raw Material(2) 500 gal oil waste tanks	36.013030	-80.838960
Tier II Site Underground Storage Tank Gas Station	K-4 R-5 D-4	7-Eleven #36075	1460 W. Memorial Hwy. Harmony, NC 28634	H	7 Eleven Inc. 1460 W. Memorial Hwy. Union Grove, NC 28689 (704) 539-4091	Gasoline - Reg. Gasoline - Premium Diesel Kerosene Cert. 20130598801	15,000 gal 10,000 gal 12,000 gal 2,000 gal	36.009120	-80.838220
Water Supply Well	M-15	Well 14	1470 W. Memorial Hwy. Harmony, NC 28634	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Waterworx	90 gal 10 gal	36.011145	-80.838706
Transportation Corridor	N-4	Hwy 77	Hwy 77	M	NC Division of Highways 124 Prison Camp Rd Statesville, NC 28625 (704) 876-3543	Spills/Herbicides	Various	36.008850	-80.833270
Hardware Store	O-4	Ace Hardware	1475 W. Memorial Hwy. Union Grove, NC 28689	M	901 Associates LLC 1475 W. Memorial Hwy. Union Grove, NC 28689 (704) 539-5504			36.008070	-80.839370
Auto Parts/Repair	P-3	Union Grove Tire & Auto	1478 W. Memorial Hwy. Harmony, NC 28634	H	Randy Templeton 1478 W. Memorial Hwy. Harmony, NC 28634 (704) 880-0128	Oil Transmission fluid, brake fluid Auto Batteries	(8) 55 gal. drums 15 cases 30	36.009730	-80.839530
Above Ground Storage Tank Wood Processing	Q-2 U-2	Union Grove Lumber	131 Lumber Drive Harmony, NC 28634	M	Union Grove Lumber 131 Lumber Drive Harmony, NC 28634 (704) 539-5506	AST Petroleum products and other chemicals	200 gal	36.007528	-80.839237
Underground Storage Tank Gas Station	R-6 D-5	Union Grove Quick Stop	1489 W. Memorial Hwy. Harmony, NC 28634	H	Raymer Brothers, Inc. 1489 W. Memorial Hwy. Harmony, NC 28634 (704) 539-5497	Gasoline - Red Gasoline - Prem Diesel Cert. 20120234901	10,000 gal 5,000 gal 10,000 gal	36.009380	-80.840580
Underground Storage Tank Gas Station	R-7 D-6	Knight's BP	1422 W. Memorial Hwy. Harmony, NC 28634	H	J.T. Alexander & Son 1422 W. Memorial Hwy. PO Box 88 Mooresville, NC 28115 (704) 539-4515	Gasoline Diesel Kerosene Cert. 20130108601 Fac.# 0-032374	10,000 gal (3) 10,000 gal 1,000 gal	36.008550	-80.836000
Wood Processing	U-1	G & G Forest Products	179 Lumber Dr. Harmony, NC 28634	H	G & G Forest Products, LLC 179 Lumber Dr. Harmony, NC 28634 (704) 539-5110	Petroleum products and other chemicals stored		36.006050	-80.840040

**Well Site: W18 - 2122 Old Wilkesboro Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-18	Well 18	2122 Old Wilkesboro Rd. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Caustic Waterworx	55 gal 265 gal 10 gal	35.819972	-80.923213

**Well Site: W19 - 520 N. Greenbriar Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-20	Well 19	520 N. Greenbriar Rd. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	30 gal	35.823126	-80.934692
Transportation Corridor	N-5	Hwy US 64	Hwy US 64	M	NC Division of Highways 124 Prison Camp Rd Statesville, NC 28625 (704) 876-3543	Spills, Herbicides	Various	35.810310	-80.825490
Auto Parts/Repair	P-4	R&B Diesel Services	116 Parleir St. Statesville, NC 28625	H	Journey Enterprises 2328 Davie Ave. Statesville, NC 28625 (704)838-0118	Bulk Motor Oil Antifreeze	300 gal 12 gal	35.809340	-80.827480

**Well Site: W21 - 351 Tomlin Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-21	Well 21	351 Tomlin Rd. Harmoy, NC 28634	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	55 gal	35.952646	-80.790764

**Well Site: W22 - 176 Harper Dr.**

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-22	Well 22	176 Harper Dr. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Waterworx	55 gal 10 gal	35.851504	-80.720303
Transportation Corridor	N-6	Hwy US 64	Hwy US 64	M	NC Division of Highways 124 Prison Camp Rd Statesville, NC 28625 (704) 876-3543	Spills, Herbicides	Various	35.853320	-80.72459

**Well Site: W23 - 152 Culppepper Dr.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-23	Well 23	152 Culppepper Dr. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Waterworx	5 gal 10 gal	35.877749	-80.939494
Transporation Corridor	N-7	Hwy US 115	Hwy US 115	M	NC Division of Highways 124 Prison Camp Rd Statesville, NC 28625 (704) 876-3543	Spills, Herbicides	Various	35.878040	-80.942400

**Well Site: W25 - 363 Miller Farm Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Animal Operation (unregulated)	G-2	Stables	404 Miller Farm Rd. Statesville, NC 28625	M	Pamela Gregory 3203 Meadow Rue Statesville, NC 28625	Organic matter		35.822910	-80.931870
Water Supply Well	M-19	Well 25	363 Miller Farm Rd. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Waterworx	5 gal 10 gal	35.823126	-80.934692

**Well Site: W26 - 178 Coolwood Dr.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Dairy Farm	F-2	Buttke Dairy Farm	104 Country Hill Ln. Statesville, NC 28625	H	Buttke Dairy Entpr 104 Country Hill Ln. Statesville, NC 28625	Dairy Farm, Animal Waste	-	35.851980	-80.762270
Church/Cemetery	H-4	Chestnut Grove Cemetery	796 Cool Springs Rd. Statesville, NC 28625	M	Chestnut Grove Baptist Church 796 Cool Springs Rd. Statesville, NC 28625 (704) 872-8616	Biological Waste	Small	35.860190	-80.766270
Water Supply Well	M-26	Well 26	178 Coolwood Dr. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Waterworx	110 gal 10 gal	35.857535	-80.759510

**Well Site: W28 - 260 Rimrock Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-28	Well 28	260 Rimrock Rd. Harmony, NC 28634	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	110 gal	35.913061	-80.752907

**Well Site: W27 - 158 Peppertree Dr.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-27	Well 27	158 Peppertree Dr. Harmony, NC 28634	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	110 gal	35.956100	-80.761700
Transportation Corridor	N-8	Hwy 901	Hwy 901	M	NC Division of Highways 124 Prison Camp Rd Statesville, NC 28625 (704) 876-3543	Spills, Herbicides	Various	35.951560	-80.762204
Sewer Lift Station	X-1	Harmony Lift Station	End of Linda Rd. Harmony, NC 28634	H	Town of Harmony Joe Steele P.O. Box 118 3389 Harmony Hwy, Harmony, NC 28634 (704) 546-2339	Municipal wastewater, treatment chemicals, generator fuel	157 GPM WW Pumped 214 gal of fuel	35.955310	-80.762600

**Well Site: W29 - 131 Beaverwood Ln.  
Well Site: W38 - 155 Westwinds Lp.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Poultry Operation	A-2	Neng Thao	171 Hanging Tree Ln. Statesville, NC 28625	H	Neng Thao 171 Hanging Tree Ln. Statesville, NC 28625 704-876-1188	Nitrogen waste from 10,000 chickens No elevated nitrates	Waste is removed regularly and spread outside WHPA	35.875530	-80.922830
Poultry Operation	A-3	Roldan Speer	324 Yadkin Valley Rd. Statesville, NC 28625	H	Roldan Speer 2624 S. Chipley Ford Rd. Statesville, NC 28625	Nitrogen waste from chickens		35.869066	-80.922475
Water Supply Well	M-24	Well 29	131 Beaverwood Ln. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Waterworx	55 gal 10 gal	35.882200	-80.922700
Water Supply Well	M-25	Well 38	155 Westwinds Lp. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	230 gal	35.873821	-80.924984

**Well Site: W30 - 121 Fairgate Dr.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-6	Well 30	121 Fairgate Dr. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	55 gal	35.831200	-80.877600

**Well Site: W31 - 183 Foy Ln.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Abandoned Dairy Farm	FA-1	Hilltop Farm Lagoon	203 Grier Farm Rd. Statesville, NC 28625	M	Hilltop Farm 203 Grier Farm Rd. Statesville, NC 28625	Lagoon closed in 1993	-	35.848980	-80.924870
Water Supply Well	M-29	Well 31	183 Foy Ln. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	55 gal	35.852011	-80.928589
Transportation Corridor	N-9	Hwy US 115	Hwy US 115	M	NC Division of Highways 124 Prison Camp Rd Statesville, NC 28625 (704) 876-3543	Spills, Herbicides	Various	35.851950	-80.930350

**Well Site: W32 - 781 N. Chipley Ford Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-10	Well 32	781 N. Chipley Rd. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	90 gal	35.949763	-80.918301

**Well Site: W33 - 134 Rydel Ln.**

PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Poultry Operation (Abandoned)	B-2	Clara Welborn	293 Reeves Rd. Statesville, NC 28625	M	Clara Welborn 307 Reeves Rd. Statesville, NC 28625	Nitrogen, Phosphorus, Pathogens, Organic Matter	-	35.873557	-80.852117
Abandoned Dairy Farm	FA-2	Blackwelder Dairy	220 Reeves Rd. Statesville, NC 28625	M	Blackwelder Dairy 220 Reeves Rd. Statesville, NC 28625	Old Lagoon	-	35.869240	-80.854670
Water Supply Well	M-30	Well 33	134 Rydel Ln. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite Waterworx	110 gal 10 gal	35.873054	-80.855343



**Well Site: W35 - 345 Bluegill Ln.**

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-32	Well 35	345 Bluegill Ln. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	165 gal	35.870982	-80.895377

**Well Site: W36 - 114 Ladybug Ct.**

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-31	Well 36	114 Ladybug Ct. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	55 gal	35.876466	-80.876633

**Well Site: W37 - 2273 S. Chipley Ford Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-7	Well 37	2273 S. Chipley Ford Rd. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	110 gal	35.830817	-80.909840
Medical/Dental/Clinic/ Vet	S-2	McGrew Chiropractic	2238 S. Chipley Ford Rd. Statesville, NC 28625	L	Philip McGrew 119 Dobbs Dr. Statesville, NC 28625	Pharmaceuticals, Sterilants, Disinfectants, Cleaning Chemicals	Small	35.829130	-80.908500

**Well Site: W39 - 1009 Jennings Rd.**

PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Water Supply Well	M-33	Well 39	1009 Jennings Rd. Statesville, NC 28625	L	Iredell Water Corporation 571 Jennings Rd Statesville, NC 28625 (704) 876-0672	Sodium Hypochlorite	175 gal	35.870982	-80.895377

## **WHPA Risk Assessments**

**Well Site: W01 - 114 Deep Water Dr.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
N-1	Hwy 115	M	2330	1771	0.239914163	2	0.48
M-1	Well 1	L	2330	5	0.997854077	1	1.00

Total Risk Score 1.48

**Well Site: W02 - 129 James Farm Rd.**

**Well Site: W34 - 296 Turnersburg Hwy.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
I-1	Iron World	H	2631	1836	0.302166477	3	0.91
K-1 O-1	Lowe's of Statesville Store #0458	H	2631	2093	0.204484987	3	0.61
K-2 O-3	Home Depot Store #3642	H	2631	1885	0.283542379	3	0.85
P-1	AutoZone Store #4875	H	2631	1634	0.378943368	3	1.14
R-1	United Parcel Service	H	2631	1290	0.509692132	3	1.53
R-2 D-1	R.J. Tobacco Discount Inc.	H	2631	913	0.652983656	3	1.96
T-1	Cygnat Enterprises, Inc.	H	2631	919	0.650703155	3	1.95
H-1	Davidsonville Church	M	2631	1806	0.313568985	2	0.63
H-2	Fairview Church	M	2631	1069	0.593690612	2	1.19
N-2	Hwy US 21	M	2631	682	0.740782972	2	1.48
O-2	Fort Dobbs Hardware	M	2631	1444	0.451159255	2	0.90
Q-1	Crown Castel Cell tower R-Oakwood-James Frm Site: 812886	M	2631	1155	0.561003421	2	1.12
V-1	Five Star Carwash	M	2631	1298	0.506651463	2	1.01
M-2	Well 2	L	2631	335	0.872671988	1	0.87
M-3	Well 34	L	2631	695	0.735841885	1	0.74
S-1	Iredell Co. Health Dept.	L	2631	697	0.735081718	1	0.74

Total Risk Score 17.62

**Well Site: W04 - 209 Guilford Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
H-3	Piney Grove AME Zion Church Cemetery	M	1645	1279	0.222492401	2	0.44
M-8	Well 4	L	1645	5	0.996960486	1	1.00

Total Risk Score 1.44

**Well Site: W05 - 531 Bess Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
F-1	GGG Farms	H	1255	1196	0.047011952	3	0.14
M-9	Well 5	L	1255	5	0.996015936	1	1.00

Total Risk Score 1.14

**Well Site: W10 - 482 Nixon Rd.**

**Well Site: W20 - 426 Cooper Farm Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
P-2	A&A Sales Inc.	H	2991	2194	0.266466065	3	0.80
R-3	Barker's Grocery	H	2991	1575	0.473420261	3	1.42
D-2							
W-1							
R-4	Royal Express	H	2991	2660	0.110665329	3	0.33
D-3							
L-1	Statesville Raw-Water Reservoir	L	2064	1332	0.354651163	1	0.35
L-2	Statesville Raw Water Backup Well 1	L	2064	1095	0.469476744	1	0.47
L-3	Statesville Raw Water Backup Well 2	L	2064	1619	0.215600775	1	0.22
M-4	Well 10	L	2991	5	0.998328318	1	1.00
M-5	Well 20	L	2064	5	0.997577519	1	1.00

Total Risk Score 5.59

**Well Site: W06 - 176 Alexander Farm Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
M-11	Well 6	L	1459	5	0.996572995	1	1.00

Total Risk Score 1.00

**Well Site: W11 - 199 Mitchell Farm Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
M-12	Well 11	L	946	5	0.994714588	1	0.99

Total Risk Score 0.99

**Well Site: W12 - 2730 Harmony Hwy.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
N-3	Hwy US 21	M	1531	220	0.85630307	2	1.71
M-13	Well 12	L	1531	5	0.996734161	1	1.00

Total Risk Score 2.71

**Well Site: W14 - 1470 W. Memorial Hwy.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
C-1	Union Grove Saw & Knife, Inc.	H	1958	648	0.669050051	3	2.01
K-4 R-5 D-4	7-Eleven #36075	H	1958	728	0.628192033	3	1.88
P-3	Union Grove Tire & Auto	H	1958	577	0.705311542	3	2.12
R-6 D-5	Union Grove Quick Stop	H	1958	872	0.5546476	3	1.66
R-7 D-6	Knight's BP	H	1958	1212	0.381001021	3	1.14
U-1	G & G Forest Products	H	1958	1900	0.029622063	3	0.09
B-1	Joseph K. Edmisten	M	1958	658	0.663942799	2	1.33
N-4	Hwy 77	M	1958	1778	0.091930541	2	0.18
O-4	Ace Hardware	M	1958	1124	0.425944842	2	0.85
Q-2 U-2	Union Grove Lumber	M	1958	1322	0.324821246	2	0.65
M-15	Well 14	L	1958	5	0.997446374	1	1.00

Total Risk Score 12.91

**Well Site: W13 - 351 S. Greenbriar Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
M-14	Well 13	L	1727	5	0.997104806	1	1.00

Total Risk Score 1.00

**Well Site: W15 - 430 Basset Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
A-1	Poultry Operation	H	1638	1562	0.046398046	3	0.14
M-16	Well 15	L	1638	5	0.996947497	1	1.00

Total Risk Score 1.14

**Well Site: W16 - 612 Bell Farm Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
FA-3	Burt Bell Farm	M	1384	200	0.855491329	2	1.71
Q-4	Von Bell Farm	M	1384	731	0.471820809	2	0.94
M-17	Well 16	L	1384	5	0.996387283	1	1.00

Total Risk Score 3.65

**Well Site: W18 - 2122 Old Wilkesboro Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
M-18	Well 18	L	1638	5	0.996947497	1	1.00

Total Risk Score 1.00

**Well Site: W25 - 363 Miller Farm Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
G-2	Stables	M	2089	843	0.596457635	2	1.19
M-19	Well 25	L	2089	5	0.99760651	1	1.00

Total Risk Score 2.19

**Well Site: W19 - 520 N. Greenbriar Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
P-4	R&B Diesel Services	H	911	843	0.074643249	3	0.22
N-5	Hwy US 64	M	911	843	0.074643249	2	0.15
M-20	Well 19	L	911	5	0.994511526	1	0.99

Total Risk Score 1.37

**Well Site: W21 - 351 Tomlin Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
M-21	Well 21	L	1931	5	0.997410668	1	1.00

Total Risk Score 1.00

**Well Site: W22 - 176 Harper Dr.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
N-6	Hwy US 64	M	1787	843	0.528259653	2	1.06
M-22	Well 22	L	1787	5	0.997202015	1	1.00

Total Risk Score 2.05

**Well Site: W23 - 152 Culpepper Dr.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
N-7	Hwy US 115	M	1221	862	0.294021294	2	0.59
M-23	Well 23	L	1221	5	0.995904996	1	1.00

Total Risk Score 1.58

**Well Site: W29 - 131 Beaverwood Ln.**

**Well Site: W38 - 155 Westwinds Lp.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
A-2	Neng Thao	H	3044	864	0.716162943	3	2.15
M-24	Well 29	L	2485	5	0.997987928	1	1.00
M-25	Well 38	L	3044	5	0.998357424	1	1.00

Total Risk Score 4.14

**Well Site: W26 - 178 Coolwood Dr.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
F-2	Buttke Dairy Farm	H	2261	2110	0.066784609	3	0.20
H-4	Chestnut Grove Cemetery	M	2261	2204	0.025210084	2	0.05
M-26	Well 26	L	2261	5	0.997788589	1	1.00

Total Risk Score 1.25

**Well Site: W27 - 158 Peppertree Dr.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
X-1	Harmony Lift Station	H	1757	374	0.787137166	3	2.36
N-8	Hwy 901	M	1757	1630	0.072282299	2	0.14
M-27	Well 27	L	1757	5	0.99715424	1	1.00

Total Risk Score 3.50

**Well Site: W28 - 260 Rimrock Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
M-28	Well 28	L	2651	5	0.998113919	1	1.00

Total Risk Score 1.00

**Well Site: W30 - 121 Fairgate Dr.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
M-6	Well 30	L	923	5	0.994582882	1	0.99

Total Risk Score 0.99

**Well Site: W31 - 183 Foy Ln.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
FA-1	Hilltop Farm Lagoon	M	1664	1572	0.055288462	2	0.11
N-9	Hwy US 115	M	1664	527	0.683293269	2	1.37
M-29	Well 31	L	1664	5	0.996995192	1	1.00

Total Risk Score 2.47

**Well Site: W33 - 134 Rydel Ln.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
B-2	Clara Welborn	M	2038	872	0.572129539	2	1.14
FA-2	Blackwelder Dairy	M	2038	1382	0.3218842	2	0.64
M-30	Well 33	L	2038	5	0.997546614	1	1.00

Total Risk Score 2.79

**Well Site: W32 - 781 N. Chipley Ford Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
M-10	Well 32	L	1459	5	0.996572995	1	1.00

Total Risk Score 1.00

**Well Site: W36 - 114 Ladybug Ct.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
M-31	Well 36	L	979	5	0.994892748	1	0.99

Total Risk Score 0.99

**Well Site: W35 - 345 Bluegill Ln.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
M-32	Well 35	L	2611	5	0.998085025	1	1.00

Total Risk Score 1.00

**Well Site: W37 - 2273 S. Chipley Ford Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
M-7	Well 37	L	1696	5	0.997051887	1	1.00
S-2	McGrew Chiropractic	L	1696	732	0.568396226	1	0.57

Total Risk Score 1.57

**Well Site: W39 - 1009 Jennings Rd.**

Map Code	PCS Site	Risk	WHP Radius	Distance	Proximity Score	Category Score	Final PCS Score
M-33	Well 39	L	2919	5	0.998287085	1	1.00

Total Risk Score 1.00



## Iredell County Solid Waste Site Locations

<b>Harmony Site</b>	
866 West Memorial Highway Harmony, NC 28634 Phone: (704) 539-5447	Monday - Saturday: 7 a.m. - 6 p.m. Sunday: 2 p.m. - 6 p.m.
<b>West Site</b>	
257 Watermelon Road Statesville, NC 28625 Phone: (704) 832-2316	Monday - Friday: 6:30 a.m. - 6:30 p.m. Saturday: 7 a.m. - 5 p.m.
<b>Central Site</b>	
3918 Wilksboro Highway Statesville, NC 28625 Phone: (704) 876-2666	Monday - Friday: 6:30 a.m. - 6:30 p.m. Saturday: 7 a.m. - 5 p.m.
<b> Mooresville Transfer Station</b>	
158 Macleod Drive Mooresville, NC 28115 Phone: (704) 663-5314	Monday - Saturday: 7 a.m. - 6:30 p.m. Sunday: 2 p.m. - 6 p.m.
<b>Regulations:</b> <ul style="list-style-type: none"> <li>~ Commercial loads are not accepted after 2:45 p.m. Monday - Friday.</li> <li>~ Commercial loads are not accepted on Saturday or Sunday.</li> <li>~ Any load containing construction debris (demolition) should be unloaded by 6 p.m.</li> </ul>	
<b>Twin Oaks Solid Waste Facility</b>	
354 Twin Oaks Road Statesville, NC 28625 Phone: (704) 878-5430	Monday - Friday: 7:30 a.m. - 4 p.m. Saturday: 8 a.m. - Noon
<b>Regulations:</b> <ul style="list-style-type: none"> <li>~ Commercial loads are not accepted after 3:30 p.m. Monday - Friday or after 11:30 a.m. on Saturday.</li> <li>~ Construction and demolition waste will not be accepted after 3:45 p.m. Monday - Friday or after 11:30 a.m. on Saturday.</li> </ul>	

## **Glossary of Acronyms and Abbreviations**

IWC-Iredell Water Corporation  
EPA-Environmental Protection Agency  
DEQ-Division of Environmental Quality  
UST-Underground Storage Tank  
AST-Above ground Storage Tank  
VOC-Volatile Organic Compound  
SOC-Semi-volatile Organic Compound  
PWS-Public Water Supply  
PWSS-Public Water Supply Section  
WPC-Wellhead Protection Committee  
WHPP-Wellhead Protection Program or Plan  
WHPA-Wellhead Protection Area  
Gpm-gallons per minute  
PCS-Potential Contamination Source  
NPDES-National Pollutant Discharge Elimination System  
SPCC-Spill Prevention Control and Countermeasures  
UIC-Underground Injection Control  
DEACS-Division of Environmental Assistance and Customer Service  
ORC-Operator Responsible in Charge  
WQCS-Water Quality Collection System  
SWAP-Source Water Assessment and Protection  
SWDA-Solid Waste Disposal Act  
DWR-Division of Water Resources  
EPCRA-Emergency Planning and Community Right to Know Act  
PIRF-Pollution Incident Reporting Form  
CWA-Clean Water Act  
ECHO-Enforcement and Compliance History Online  
CERCLA-Comprehensive Environmental Response, Compensation, and Liability Act  
OERR-Office of Emergency and Remedial Response  
NCP-National Contingency Plan  
RCRA-Resource Conservation and Recovery Act  
TRI-Toxic Release Inventory  
NCDA-North Carolina Department of Agriculture

## References

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North Carolina Department of Environmental Quality, Division of Environmental Health, Public Water Supply Section, The North Carolina Wellhead Protection Guidebook, Developing a Local Wellhead Protection Program, 2003

Iredell County website: <https://www.co.iredell.nc.us/>

Iredell Water Corporation website: <http://www.iredellwater.com/>

Source Water Assessment Report for Iredell Water Corporation (2015, August 24).

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[http://www.ncwater.org/files/swap/SWAP\\_Reports/0149025\\_7\\_9\\_2015\\_85\\_11.pdf](http://www.ncwater.org/files/swap/SWAP_Reports/0149025_7_9_2015_85_11.pdf)

Local Water Supply Plan, North Carolina Division of Water Resources:

[http://www.ncwater.org/Water\\_Supply\\_Planning/Local\\_Water\\_Supply\\_Plan/report.php?psid=01-49-025&year=2015](http://www.ncwater.org/Water_Supply_Planning/Local_Water_Supply_Plan/report.php?psid=01-49-025&year=2015)

Ground Water Division, North Carolina Division of Water Resources, NC Division of Environmental Quality: <http://www.ncwater.org/?page=20>

*Soil Survey of Iredell County, North Carolina*, USDA, Natural Resources Conservation Service  
[http://www.nrcs.usda.gov/Internet/FSE\\_MANUSCRIPTS/north\\_carolina/iredellNC2011/Iredell\\_NC.pdf](http://www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/north_carolina/iredellNC2011/Iredell_NC.pdf)

US Geological Survey: [http://nc.water.usgs.gov/about/faq\\_ground.html#mtns](http://nc.water.usgs.gov/about/faq_ground.html#mtns)

Iredell Water Corporation 2015 Consumer Confidence Report:

[http://www.iredellwater.com/documents/431/2015\\_CCRs\\_for\\_website.pdf](http://www.iredellwater.com/documents/431/2015_CCRs_for_website.pdf)

Water Supply Protection for Rural Communities in Washington State, A Toolkit for Local Government Officials, Module-2: Wellhead Protection Areas,

<http://www.horsleywitten.com/evergreen/mod-2-CFR.html>

North Carolina Department of Environmental Quality, Division of Water Resources, UST Section, Ground Water Protection Section, Mooresville Regional Office Files, 919 N. Main St, Mooresville, North Carolina.

Iredell County Emergency Services, Statesville, NC, SARA Title III Tier II Files

## **Well Construction Records**

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27887 - RALPHAETH, N.C. 27811, PHONE (919) 733-5083

FOR OFFICE USE ONLY

Quad. No. Serial No.
Lat. Long. Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR Air Drilling Co.
DRILLER REGISTRATION NUMBER 244

STATE WELL CONSTRUCTION PERMIT NUMBER:

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Statesville

County: Iredell

(Road, Community, or Subdivision and Lot No.)

2. OWNER Triton Finances, Ltd.

DRILLING LOG
Depth From To Formation Description

ADDRESS F.S. Box 631
Statesville N.C. 28677
City or Town State Zip Code

0 92' Dirt
92' 140' Rock

3. DATE DRILLED 5-18-87 USE OF WELL

4. TOTAL DEPTH 450' CUTTINGS COLLECTED Yes No

5. DOES WELL REPLACE EXISTING WELL? Yes No

6. STATIC WATER LEVEL: FT. above/below TOP OF CASING,
TOP OF CASING IS FT. ABOVE LAND SURFACE.

7. YIELD (gpm): 120+ METHOD OF TEST Air

8. WATER ZONES (depth): 400' & 450'

9. CHLORINATION: Type HTH Amount

10. CASING:
Depth Diameter Wall Thickness or Weight/Ft. Material
From 0 To 81 Ft. 6 1/2 Galv.

If additional space is needed use back of form.

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

11. GROUT:
Depth Material Method
From 0 To 20 Ft. Grout Poured

12. SCREEN:
Depth Diameter Slot Size Material

13. GRAVEL PACK:
Depth Size Material

14. REMARKS:

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

SIGNATURE OF CONTRACTOR OR AGENT

DATE

## WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR (INDIVIDUAL) NAME (Print) Neill Pardue CERTIFICATION # 2609

WELL CONTRACTOR COMPANY NAME Air Drilling Company PHONE # (704) 872-7614

STATE WELL CONSTRUCTION PERMIT# \_\_\_\_\_ ASSOCIATED WQ PERMIT# \_\_\_\_\_  
(if applicable) (if applicable)

1. WELL USE (Check Applicable Box): Residential  Municipal/Public  Industrial  Agricultural   
Monitoring  Recovery  Heat Pump Water Injection  Other  If Other, List Use \_\_\_\_\_

2. WELL LOCATION:  
Nearest Town: Statesville County Iredell  
James Farm Road - Radio Tower  
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting  
 Ridge  Slope  Valley  Flat  
(check appropriate box)  
Latitude/longitude of well location

3. OWNER: Iredell Water Corp.  
Address P.O. Box 711  
(Street or Route No.)  
Statesville, NC 28687  
City or Town State Zip Code

(degrees/minutes/seconds)  
Latitude/longitude source:  GPS  Topographic map  
(check box)

DEPTH		DRILLING LOG
From	To	Formation Description
0'	88'	Dirt
88'	605'	Rock

Area code- Phone number \_\_\_\_\_  
4. DATE DRILLED 01-09-03  
5. TOTAL DEPTH: 605'  
6. DOES WELL REPLACE EXISTING WELL? YES  NO   
7. STATIC WATER LEVEL Below Top of Casing: 15 FT.  
(Use "+" if Above Top of Casing)  
8. TOP OF CASING IS 2½ FT. Above Land Surface\*  
\*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.  
9. YIELD (gpm): 200 METHOD OF TEST Air  
10. WATER ZONES (depth): 480 ft.

LOCATION SKETCH  
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.

11. DISINFECTION: Type HTH Amount \_\_\_\_\_  
12. CASING:  
Depth Diameter' Wall Thickness or Weight/Ft. Material  
From 0 To 88 Ft. 8" \_\_\_\_\_ Galv.  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_  
13. Casing: Depth Material Method  
From 0 To 88 Ft. Grout \_\_\_\_\_ Pumped  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_  
14. SCREEN: Depth Diameter Slot Size Material  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_  
15. SAND/GRAVEL PACK:  
Depth Size Material  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_

16. 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

Neill Pardue

1/9/03

SIGNATURE OF PERSON CONSTRUCTING THE WELL

DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mall Service Center - Raleigh, NC 27619 Phone No. (919) 733-3221, within 30 days. GW-1 REV. 07/2001

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### WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Neill Pardue CERTIFICATION # 2609

WELL CONTRACTOR COMPANY NAME Air Drilling Company PHONE # (704)-872-7614

STATE WELL CONSTRUCTION PERMIT# \_\_\_\_\_ ASSOCIATED WQ PERMIT# \_\_\_\_\_  
(if applicable) (if applicable)

1. WELL USE (Check Applicable Box): Residential  Municipal/Public  Industrial  Agricultural   
Monitoring  Recovery  Heat Pump Water Injection  Other  If Other, List Use \_\_\_\_\_

2. WELL LOCATION:  
Nearest Town: Harmony County Iredell  
Fox Hunter  
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting  
 Ridge  Slope  Valley  Flat  
(check appropriate box)  
Latitude/longitude of well location \_\_\_\_\_

3. OWNER: Iredell Water Corp.  
Address P.O. Box 711  
(Street or Route No.)  
Statesville, NC 28687  
City or Town State Zip Code  
( )-\_\_\_\_\_  
Area code- Phone number

(degrees/minutes/seconds)  
Latitude/longitude source:  GPS  Topographic map  
(check box)

DEPTH		DRILLING LOG
From	To	Formation Description
0'	52'	Dirt
52'	605'	Rock

4. DATE DRILLED 09-25-02  
5. TOTAL DEPTH: 605 ft.  
6. DOES WELL REPLACE EXISTING WELL? YES  NO   
7. STATIC WATER LEVEL Below Top of Casing: \_\_\_\_\_ FT.  
(Use "+" if Above Top of Casing)  
8. TOP OF CASING IS 2 1/2 FT. Above Land Surface\*  
\*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.  
9. YIELD (gpm): 125 METHOD OF TEST Air  
10. WATER ZONES (depth): 595 ft.

LOCATION SKETCH  
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.

11. DISINFECTION: Type HTH Amount \_\_\_\_\_  
12. CASING: Wall Thickness \_\_\_\_\_  
From 0 To 52 Ft. Diameter 8" Material Galv.  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_  
13. GROUT: Depth \_\_\_\_\_ Material \_\_\_\_\_ Method \_\_\_\_\_  
From 0 To 52 Ft. Grout Poured  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_  
14. SCREEN: Depth \_\_\_\_\_ Diameter \_\_\_\_\_ Slot Size \_\_\_\_\_ Material \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_  
15. SAND/GRAVEL PACK: Depth \_\_\_\_\_ Size \_\_\_\_\_ Material \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_

16. 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

Neill Pardue 9/25/02  
SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days. GW-1 REV. 07/2001

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Your Copy

### WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Neill Pardue CERTIFICATION # 2609

WELL CONTRACTOR COMPANY NAME Air Drilling Company PHONE # (704) 872-7614

STATE WELL CONSTRUCTION PERMIT# \_\_\_\_\_ ASSOCIATED WQ PERMIT# \_\_\_\_\_  
(if applicable) (if applicable)

1. WELL USE (Check Applicable Box): Residential  Municipal/Public  Industrial  Agricultural   
Monitoring  Recovery  Heat Pump Water Injection  Other  If Other, List Use \_\_\_\_\_

2. WELL LOCATION:  
Nearest Town: Olin County Iredell  
Bess Road  
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting  
 Ridge  Slope  Valley  Flat  
(check appropriate box)  
Latitude/longitude of well location

3. OWNER: Iredell Water  
Address P.O. Box 711  
(Street or Route No.)  
Statesville, NC 28687  
City or Town State Zip Code  
( )-\_\_\_\_\_  
Area code- Phone number

(Degrees/minutes/seconds)  
Latitude/longitude source:  GPS  Topographic map  
(check box)

DEPTH		DRILLING LOG
From	To	Formation Description
0'	133'	Dirt
133'	825'	Rock

4. DATE DRILLED 02-06-03  
5. TOTAL DEPTH: 825 ft.  
6. DOES WELL REPLACE EXISTING WELL? YES  NO   
7. STATIC WATER LEVEL Below Top of Casing: 50 FT.  
(Use "+" if Above Top of Casing)  
8. TOP OF CASING IS 2 1/2 FT. Above Land Surface\*  
\*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.  
9. YIELD (gpm): 60 METHOD OF TEST Air  
10. WATER ZONES (depth): 802 ft.

LOCATION SKETCH  
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.

11. DISINFECTION: Type HTH Amount \_\_\_\_\_  
12. CASING: Wall Thickness \_\_\_\_\_  
or Weight/Ft. \_\_\_\_\_  
Depth Diameter Material  
From 0 To 133 Ft. 8" Galv  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_  
13. GROUT: Depth Material Method  
From 0 To 133 Ft. Grout Pumped  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_  
14. SCREEN: Depth Diameter Slot Size Material  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_  
15. SAND/GRAVEL PACK:  
Depth Size Material  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_

16. 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

Neill Pardue  
SIGNATURE OF PERSON CONSTRUCTING THE WELL

2/6/03  
DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days. GW-1 REV. 07/2001



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**WELL RECORD**

NORTH CAROLINA DEPARTMENT OF WATER AND AIR RESOURCES  
 DIVISION OF GROUND WATER  
 BOX 9392 - RALEIGH, N. C.

A6

Drilling Contractor Air Drilling Co. Reg. No. 211 Well Permit No.

1. Town Harmony, N.C. County Tredell  
 2. Location Site #6 Quadrangle No.

Show a sketch of location on back of form

DRILLING LOG

3. Owner Tredell Water Corp.  
 Address P.O. Box 8, Harmony, N.C.

Depth		Formation
From	To	
0	40'	Dirt
40'	307'	Rock

4. Topography: draw, slope, hilltop, valley, flat

5. Use of Well Business Date Completed 6-3-70

6. Rig type or method Air-Rotary Total Depth 307'

7. Casing: Depth Diam. Type  
 From 0 to 40 ft. 6<sup>1</sup>/<sub>2</sub> in. Galv.

8. Grout: Depth Material Method  
 From        to        ft.

9. Screen: Depth Diam. Type and opening  
 From        to        ft.        in.

10. Water Zones (depth) 128'

11. Static Water Level:        ft. <sup>above</sup>/<sub>below</sub> top of casing  
 which is        ft. above land surface.  
 Date       

12. Yield (gpm) 100 Method of testing Air

13. Pumping Water Level:        ft. after        hrs.  
 at        gpm.

14. Water Quality        Temperature (°F)       

15. Well sterilization method HTH Tablets

16. Permanent Pump: Type        Make         
 Installed- Date        By         
 Capacity        (gpm) Hp.         
 Intake depth        Airline depth       

17. Remarks:       

I do hereby certify that this well record is true and exact.

SIGNATURE OF CONTRACTOR OR AGENT

White copy - Department of Water & Air Resources; Blue-Drillers copy; Green-Owner's copy.

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NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES

OFFICE OF WATER AND AIR RESOURCES

GROUND WATER DIVISION

P. O. BOX 27687 - RALEIGH, N. C. 27611

**WELL RECORD**

DRILLING CONTRACTOR Air Drilling Co.

REG. NO. 214

WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show a sketch of the location on back of form)

Nearest Town: Bethel, N.C.

County: Iredell

Off Hwy. #21N.  
(Road, Community or Subdivision and Lot No.)

Quadrangle No. \_\_\_\_\_

2. OWNER: Iredell Soil Corp.

3. ADDRESS: P.O. Box 8, Harmony, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat

5. USE OF WELL: Water System DATE: 5-5-77

6. DOES THIS WELL REPLACE AN EXISTING WELL? no

7. TOTAL DEPTH: 245' RIG TYPE OR METHOD: air

8. FORMATION SAMPLES COLLECTED:  YES No. of Bags 24

9. CASING: Inside  Wall thick  
or  
Diam. weight/ft. Type  
From 0 Depth 31 to ft. 6 Grout

10. GROUT: Depth Material Method  
From 0 to 20 ft. Grout Poured

11. SCREEN: Depth Diam. Type and Opening  
From \_\_\_\_\_ to \_\_\_\_\_ ft.

12. GRAVEL: Depth Size Material  
From \_\_\_\_\_ to \_\_\_\_\_ ft.

13. WATER ZONES(depth): 160' & 220'

14. STATIC WATER LEVEL: \_\_\_\_\_ ft. above top of casing.  
below  
Casing is \_\_\_\_\_ ft. above land surface. ELEV. \_\_\_\_\_  
DATE MEASURED: \_\_\_\_\_

15. YIELD(gpm): 300+ METHOD OF TESTING: air

16. PUMPING WATER LEVEL: \_\_\_\_\_ ft. after \_\_\_\_\_ hours  
at \_\_\_\_\_ gpm.

17. CHLORINATION: Type RTH Tab. Amount \_\_\_\_\_

18. WATER QUALITY: \_\_\_\_\_ TEMPERATURE(\*F) \_\_\_\_\_

19. PERMANENT PUMP: (Show a sketch of well head on back of form)  
Date installed \_\_\_\_\_ Type \_\_\_\_\_ Make \_\_\_\_\_  
Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Intake Depth \_\_\_\_\_ Airline Depth \_\_\_\_\_

20. HAVE YOU INFORMED THE WELL OWNER OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS: \_\_\_\_\_

I do hereby certify that this well record is true and exact.

SIGNATURE OF CONTRACTOR OR AGENT DATE

DRILLING LOG		
DEPTH		FORMATION DESCRIPTION
FROM	TO	
0	31'	Dirt
31'	245'	Rock

## WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Neill Pardue CERTIFICATION # 2609  
 WELL CONTRACTOR COMPANY NAME Air Drilling Company PHONE # (704) 872-7614  
 STATE WELL CONSTRUCTION PERMIT# \_\_\_\_\_ ASSOCIATED WQ PERMIT# \_\_\_\_\_  
 (if applicable) (if applicable)

1. WELL USE (Check Applicable Box): Residential  Municipal/Public  Industrial  Agricultural   
 Monitoring  Recovery  Heat Pump Water Injection  Other  If Other, List Use \_\_\_\_\_

2. WELL LOCATION:  
 Nearest Town: Turnersburg County Iredell  
Mitchell Farm  
 (Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting  
 Ridge  Slope  Valley  Flat  
 (check appropriate box)  
 Latitude/longitude of well location \_\_\_\_\_

3. OWNER: Iredell Water Corp.  
 Address P.O. Box 711  
 (Street or Route No.)  
Statesville, NC 28687  
 City or Town State Zip Code

(degrees/minutes/seconds)  
 Latitude/longitude source:  GPS  Topographic map  
 (check box)

Area code- Phone number

4. DATE DRILLED 06-25-04

5. TOTAL DEPTH: 905 ft.

6. DOES WELL REPLACE EXISTING WELL? YES  NO

7. STATIC WATER LEVEL Below Top of Casing: 30 FT.  
 (Use "+" if Above Top of Casing)

8. TOP OF CASING IS 2½ FT. Above Land Surface\*  
 \*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .9118.

9. YIELD (gpm): 65 METHOD OF TEST Air

10. WATER ZONES (depth): 190' - 60  
887' - 65

11. DISINFECTION: Type HTH Amount \_\_\_\_\_

12. CASING: Wall Thickness \_\_\_\_\_  
 From \_\_\_\_\_ To 52 Ft. Diameter, or Weight Ft. Material Galv.  
 From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_

13. GROUT: Depth \_\_\_\_\_ Material \_\_\_\_\_ Method \_\_\_\_\_  
 From 0 To 52 Ft. Grout Pumped  
 From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_

14. SCREEN: Depth \_\_\_\_\_ Diameter \_\_\_\_\_ Slot Size \_\_\_\_\_ Material \_\_\_\_\_  
 From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_  
 From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_

15. SAND GRAVEL PACK:  
 Depth \_\_\_\_\_ Size \_\_\_\_\_ Material \_\_\_\_\_  
 From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_  
 From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_

16. REMARKS: 8" drive shoe

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

SIGNATURE OF PERSON CONSTRUCTING THE WELL

DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, with \_\_\_\_\_ days.  
 GW-1 REV. 07/2001

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NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES  
 DIVISION OF ENVIRONMENTAL MANAGEMENT  
 GROUNDWATER SECTION  
 P.O. BOX 27687 - RALEIGH, N.C. 27611

WELL RECORD

DRILLING CONTRACTOR Air Drilling Co. REG. NO. 204 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest town: Statesville, N.C. County: Iredell

Quadrangle No. \_\_\_\_\_

(Road, Community or Subdivision and Lot No.)

2. OWNER: Iredell Water Corp.

3. ADDRESS: Harmony, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: Water System: 9-26-77

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 305' RIG TYPE OR METHOD: air

8. FORMATION SAMPLES COLLECTED: YES X NO \_\_\_\_\_

9. CASING: Depth Inside Wall thick. type

From 0 to 85': 6" weight/ft. Galv.

From \_\_\_\_\_ to \_\_\_\_\_: \_\_\_\_\_ weight/ft. \_\_\_\_\_

From \_\_\_\_\_ to \_\_\_\_\_: \_\_\_\_\_ weight/ft. \_\_\_\_\_

From \_\_\_\_\_ to \_\_\_\_\_: \_\_\_\_\_ weight/ft. \_\_\_\_\_

10. GROUT: Material Method

From 0 to 20': Grout Poured

From \_\_\_\_\_ to \_\_\_\_\_: \_\_\_\_\_

11. SCREEN: Depth Dia. Type & Opening

From \_\_\_\_\_ to \_\_\_\_\_ ft. \_\_\_\_\_

From \_\_\_\_\_ to \_\_\_\_\_ ft. \_\_\_\_\_

From \_\_\_\_\_ to \_\_\_\_\_ ft. \_\_\_\_\_

12. GRAVEL: Depth Size Material

From \_\_\_\_\_ to \_\_\_\_\_ ft. \_\_\_\_\_

From \_\_\_\_\_ to \_\_\_\_\_ ft. \_\_\_\_\_

13. WATER ZONES (depth): 299'

14. STATIC WATER LEVEL: \_\_\_\_\_ ft. above top of casing

below \_\_\_\_\_ ft. above land surface ELEV: \_\_\_\_\_

15. YIELD (gpm): 75 METHOD OF TESTING: air

16. PUMPING WATER LEVEL: \_\_\_\_\_ ft after \_\_\_\_\_ hours

at \_\_\_\_\_ gpm.

17. CHLORINATION: Type HTH Amount \_\_\_\_\_

18. WATER QUALITY: \_\_\_\_\_ TEMPERATURE (°F) \_\_\_\_\_

19. PERMANENT PUMP: Date Installed \_\_\_\_\_

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? YES

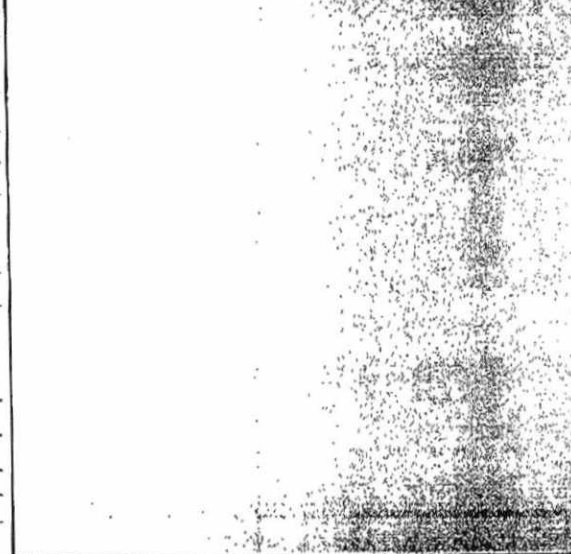
21. REMARKS \_\_\_\_\_

DRILLING LOG		
DEPTH		FORMATION DESCRIPTION
FROM	TO	
0	85'	Dirt
85'	305'	Rock

If additional space is needed, use back of form

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)



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NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
DIVISION OF ENVIRONMENTAL MANAGEMENT, GROUNDWATER SECTION

P.O. BOX 27687 - RALEIGH, N.C. 27611

DRILLING CONTRACTOR Air Drilling Co. REG. NO. 244 WELL CONSTRUCTION PERMIT NO. 2742

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Statesville, N.C. County: Iredell  
Greenbriar Rd. Quadrangle No. \_\_\_\_\_  
(Road, Community or Subdivision and Lot No.)

2. OWNER: Iredell Water Corp.

DRILLING LOG

3. ADDRESS: P.O. Box 8, Harmony, N.C.

DEPTH FROM TO FORMATION DESCRIPTION

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: Water System DATE: 7-11-78 0 50' Dirt

6. DOES THIS WELL REPLACE AN EXISTING WELL? no 50' 305' Rock

7. TOTAL DEPTH: 305' RIG TYPE OR METHOD: air

8. FORMATION SAMPLES COLLECTED: YES 30 NO \_\_\_\_\_

9. CASING: Depth Inside Wall thick. type  
Dia. or weight/ft.

From 0 to 50' 8" Galv.

10. GROUT: Depth Material Method

From 0 to 20 ft Grout Poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From \_\_\_\_\_ to \_\_\_\_\_ ft \_\_\_\_\_

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From \_\_\_\_\_ to \_\_\_\_\_ ft \_\_\_\_\_

13. WATER ZONES (depth): 275' & 297'

14. STATIC WATER LEVEL: \_\_\_\_\_ ft. <sup>above</sup>/<sub>below</sub> top of casing

Casing is \_\_\_\_\_ ft. above land surface ELEV: \_\_\_\_\_

15. YIELD (gpm): 300 METHOD OF TESTING: air

16. PUMPING WATER LEVEL: \_\_\_\_\_ ft.

after \_\_\_\_\_ hours at \_\_\_\_\_ gpm.

17. CHLORINATION: Type HTH An at \_\_\_\_\_

18. WATER QUALITY: \_\_\_\_\_ TEMPERATURE (°F) \_\_\_\_\_

19. PERMANENT PUMP: Date Installed \_\_\_\_\_

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS \_\_\_\_\_

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

C:KH

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT, GROUNDWATER SECTION

P.O. BOX 27687 - RALEIGH, N.C. 27611

DRILLING CONTRACTOR Air Drilling Co. REG. NO. 244 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

14

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Union Grove, N.C. County: Iredell

(Road, Community or Subdivision and Lot No.)

Quadrangle No. \_\_\_\_\_

2. OWNER: Vance Gregory et al

DRILLING LOG

3. ADDRESS: Union Grove, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: Water System DATE: 10-9-80

DEPTH FROM TO FORMATION DESCRIPTION

0 36' Dirt

36' 345' Rock

6. DOES THIS WELL REPLACE AN EXISTING WELL? no

7. TOTAL DEPTH: 345' RIG TYPE OR METHOD: air

8. FORMATION SAMPLES COLLECTED: YES NO 34

9. CASING: Depth Inside Wall thick. type  
Dia. or weight/ft.  
From 0 to 36 ft 3" Galv.

10. GROUT: Depth Material Method  
From 0 to 20 ft Grout Poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening  
From \_\_\_\_\_ to \_\_\_\_\_ ft

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material  
From \_\_\_\_\_ to \_\_\_\_\_ ft

13. WATER ZONES (depth): 300' & 335'

14. STATIC WATER LEVEL: \_\_\_\_\_ ft. above/below top of casing  
Casing is \_\_\_\_\_ ft. above land surface ELEV: \_\_\_\_\_

15. YIELD (gpm): 100+ METHOD OF TESTING: air

16. PUMPING WATER LEVEL: \_\_\_\_\_ ft.  
after \_\_\_\_\_ hours at \_\_\_\_\_ gpm.

17. CHLORINATION: Type HTH Amount \_\_\_\_\_

18. WATER QUALITY: \_\_\_\_\_ TEMPERATURE (°F) \_\_\_\_\_

19. PERMANENT PUMP: Date Installed \_\_\_\_\_  
Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? Yes

21. REMARKS  
I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and standards and that this well record is true and exact.

SIGNATURE OF CONTRACTOR OR AGENT \_\_\_\_\_ DATE \_\_\_\_\_

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD      DIVISION OF ENVIRONMENTAL MANAGEMENT, GROUNDWATER SECTION  
P.O. BOX 27687 - RALEIGH, N.C. 27611

DRILLING CONTRACTOR Air Drilling Co. REG. NO. 244 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest TOWN: Union Grove County: Iredell  
Quadrangle No. \_\_\_\_\_  
(Road, Community or Subdivision and Lot No.)

2. OWNER: Walter Gregory et al

DRILLING LOG

3. ADDRESS: Union Grove, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: water system DATE: 10-13-80      DEPTH FROM TO      FORMATION DESCRIPTION

6. DOES THIS WELL REPLACE AN EXISTING WELL? no      111'      315'      cl. rt      Rock

7. TOTAL DEPTH: 315' RIG TYPE OR METHOD: air

8. FORMATION SAMPLES COLLECTED: YES NO 30

9. CASING: Depth Inside Wall thick. type  
Dia. or weight/ft.

From 0 to 111 ft. 4" api.

10. GROUT: Depth Material Method

From 0 to 30 ft. grout loured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From \_\_\_\_\_ to \_\_\_\_\_ ft. \_\_\_\_\_

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From \_\_\_\_\_ to \_\_\_\_\_ ft. \_\_\_\_\_

13. WATER ZONES (depth): 300' & 313'

14. STATIC WATER LEVEL: \_\_\_\_\_ ft. above/below top of casing

Casing is \_\_\_\_\_ ft. above land surface ELEV: \_\_\_\_\_

15. YIELD (gpm): 150 METHOD OF TESTING: air

16. PUMPING WATER LEVEL: \_\_\_\_\_ ft.

after \_\_\_\_\_ hours at \_\_\_\_\_ gpm.

17. CHLORINATION: Type hill Amount \_\_\_\_\_

18. WATER QUALITY: \_\_\_\_\_ TEMPERATURE (°F) \_\_\_\_\_

19. PERMANENT PUMP: Date Installed \_\_\_\_\_

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? YEB

21. REMARKS \_\_\_\_\_

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

SIGNATURE OF CONTRACTOR OF AGENT      DATE

Submit original to Groundwater Section and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT  
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION  
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-6083

FOR OFFICE USE ONLY	
Quad. No. _____	Serial No. _____
Lat. _____ Long. _____	Pc. _____
Minor Basin _____	
Basin Code _____	
Header Ent. _____	GW-1 Ent. _____

19

### WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR Air Drilling Co.  
DRILLER REGISTRATION NUMBER 244

STATE WELL CONSTRUCTION PERMIT NUMBER: \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Statesville  
(Road, Community, or Subdivision and Lot No.)

County: Iredell

2. OWNER Iredell Water Corp.  
ADDRESS P.O. Box 711  
Statesville, N.C. 28677  
City or Town State Zip Code

Depth		DRILLING LOG Formation Description
From	To	
0	85'	Dirct
85'	145'	Rock

3. DATE DRILLED 7-17-85 USE OF WELL Water System

4. TOTAL DEPTH 505' CUTTINGS COLLECTED  Yes  No

5. DOES WELL REPLACE EXISTING WELL?  Yes  No

6. STATIC WATER LEVEL: \_\_\_\_\_ FT.  above TOP OF CASING,  
 below TOP OF CASING IS \_\_\_\_\_ FT. ABOVE LAND SURFACE.

7. YIELD (gpm): 30 METHOD OF TEST Air

8. WATER ZONES (depth): 350'

9. CHLORINATION: Type NTH Amount \_\_\_\_\_

10. CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
0		85	6 1/2		Galv.
85					

If additional space is needed use back of form

#### LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

11. GROUT:

From	Depth	To	Material	Method
0		20	Grout	Poured
20				

12. SCREEN:

From	Depth	To	Diameter	Slot Size	Material

13. GRAVEL PACK:

From	Depth	To	Size	Material

14. REMARKS:

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

SIGNATURE OF CONTRACTOR OR AGENT

DATE



### WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Neill Pardue CERTIFICATION # 2609  
 WELL CONTRACTOR COMPANY NAME Air Drilling Company PHONE # (704) 872-7614  
 STATE WELL CONSTRUCTION PERMIT# \_\_\_\_\_ ASSOCIATED WQ PERMIT# \_\_\_\_\_  
 (if applicable) (if applicable)

1. WELL USE (Check Applicable Box): Residential  Municipal/Public  Industrial  Agricultural   
 Monitoring  Recovery  Heat Pump Water Injection  Other  If Other, List Use \_\_\_\_\_

2. WELL LOCATION:  
 Nearest Town: Statesville County Iredell  
Cooper Farm  
 (Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting  
 Ridge  Slope  Valley  Flat  
 (check appropriate box)  
 Latitude/longitude of well location

3. OWNER: Iredell Water Corp.  
 Address P.O. Box 711  
 (Street or Route No.)  
Statesville, NC 28687  
 City or Town State Zip Code

(degrees/minutes/seconds)  
 Latitude/longitude source:  GPS  Topographic map  
 (check box)

DEPTH		DRILLING LOG
From	To	Formation Description
0'	53'	Dirt
53'	805'	Rock

Area code- Phone number \_\_\_\_\_  
 4. DATE DRILLED 09-16-05  
 5. TOTAL DEPTH: 805 FT.  
 6. DOES WELL REPLACE EXISTING WELL? YES  NO   
 7. STATIC WATER LEVEL Below Top of Casing: 30 FT.  
 (Use "+" if Above Top of Casing)  
 8. TOP OF CASING IS 1 1/2 FT. Above Land Surface\*  
 \*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.  
 9. YIELD (gpm): 230 METHOD OF TEST Air  
 10. WATER ZONES (depth): 132' - 40 190' - 130  
640' - 60

LOCATION SKETCH  
 Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.

11. DISINFECTION: Type HTH Amount \_\_\_\_\_  
 12. CASING:  

From	Depth	To	Diameter	Wall Thickness	Material
0		53	8"		Galv.
From	To	Ft.			
From	To	Ft.			

From	Depth	To	Material	Method
0		53		Pumped
From	To	Ft.		
From	To	Ft.		

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

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

16. REMARKS: 8" Drive Shoe

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

*Neill Pardue*

9-16-05

SIGNATURE OF PERSON CONSTRUCTING THE WELL

DATE

Submit the original to the Division of Water Quality, Attn: Information Management, 1617 Mail Service Center - Raleigh, NC 27699-1617, Phone No. (919) 733-7015, within 30 days.



## NON RESIDENTIAL WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR CERTIFICATION # 2901

update #21 info  
Well #21  
re drilled

### 1. WELL CONTRACTOR:

**CHAD HARTNESS**

Well Contractor (Individual) Name

**AIR DRILLING, INC**

Well Contractor Company Name

**176 COMMERCE BLVD**

Street Address

**STATESVILLE**

**NC**

**28625**

City or Town

State

Zip Code

**(704) 872-7614**

Area code Phone number

### 2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT# \_\_\_\_\_

OTHER ASSOCIATED PERMIT#(if applicable) \_\_\_\_\_

SITE WELL ID #(if applicable) \_\_\_\_\_

3. WELL USE (Check One Box) Monitoring  Municipal/Public

Industrial/Commercial  Agricultural  Recovery  Injection

Irrigation  Other  (list use) \_\_\_\_\_

DATE DRILLED **7-9-15**

### 4. WELL LOCATION:

**TOMLIN RD.**

(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: **STATESVILLE** COUNTY: **IREDELL**

TOPOGRAPHIC / LAND SETTING: (check appropriate box)

Slope  Valley  Flat  Ridge  Other \_\_\_\_\_

LATITUDE **35** ° ' " DMS OR \_\_\_\_\_ DD

LONGITUDE **80** ° ' " DMS OR \_\_\_\_\_ DD

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)

### 5. FACILITY (Name of the business where the well is located)

Facility Name \_\_\_\_\_ Facility ID# (if applicable) \_\_\_\_\_

Street Address \_\_\_\_\_

City or Town \_\_\_\_\_

State \_\_\_\_\_

Zip Code \_\_\_\_\_

**IREDELL WATER**

Contact Name

**P.O. BOX 711**

Mailing Address

**STATESVILLE**

**NC**

**28687**

City or Town

State

Zip Code

( ) \_\_\_\_\_

Area code Phone number

### 6. WELL DETAILS:

a. TOTAL DEPTH: **905 FT**

b. DOES WELL REPLACE EXISTING WELL? YES  NO

c. WATER LEVEL Below Top of Casing: **60** FT.  
(Use "\*" if Above Top of Casing)

d. TOP OF CASING IS **1 1/2** 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): **175** METHOD OF TEST **AIR**

f. DISINFECTION: Type **HTH** Amount \_\_\_\_\_

g. WATER ZONES (depth):

Top **260'** Bottom **265'** Top \_\_\_\_\_ Bottom \_\_\_\_\_

Top **640'** Bottom **645'** Top \_\_\_\_\_ Bottom \_\_\_\_\_

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Top \_\_\_\_\_ Bottom \_\_\_\_\_

7. CASING: Depth Diameter Thickness/ Weight Material

Top **0** Bottom **70** Ft. **8"** \_\_\_\_\_ **GALV**

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_

8. GROUT: Depth Material Method

Top **0** Bottom **70'** Ft. **PORTLAND** **PUMPED**

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. **TREMMIE** \_\_\_\_\_

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. **GROUT** \_\_\_\_\_

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_

9. SCREEN: Depth Diameter Slot Size Material

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_

10. SAND/GRAVEL PACK: Depth Size Material

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_

Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ \_\_\_\_\_

11. DRILLING LOG Top Bottom Formation Description

**0' / 60'** **DIRT**

**60' / 905'** **ROCK**

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Submit within 30 days of completion to: Division of Water Quality - Information Processing,  
1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b  
Rev. 2/09

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.

*Chad Hartness* 7-9-15

SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

**CHAD HARTNESS**

PRINTED NAME OF PERSON CONSTRUCTING THE WELL

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT  
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION  
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-6083

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**WELL CONSTRUCTION RECORD**

FOR OFFICE USE ONLY	
Quad. No. _____	Serial No. _____
Lat. _____	Long. _____ Pc _____
Minor Basin _____	
Basin Code _____	
Header Ent. _____	GW-1 Ent. _____

DRILLING CONTRACTOR Air Drilling Co.  
DRILLER REGISTRATION NUMBER 244

STATE WELL CONSTRUCTION PERMIT NUMBER: \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Statesville  
(Road, Community, or Subdivision and Lot No.)

County: Tredell

2. OWNER Tredell Water Corp.  
ADDRESS P.O. Box 711  
(Street or Route No.)  
Statesville, N.C. 28677  
City or Town State Zip Code

Depth From To DRILLING LOG Formation Description

0 108' Dir  
108' 405' Rock

3. DATE DRILLED 4-18-86 USE OF WELL Water System

4. TOTAL DEPTH 405' CUTTINGS COLLECTED  Yes  No

5. DOES WELL REPLACE EXISTING WELL?  Yes  No

6. STATIC WATER LEVEL \_\_\_\_\_ FT.  above TOP OF CASING,  
 below TOP OF CASING IS \_\_\_\_\_ FT. ABOVE LAND SURFACE.

7. YIELD (gpm): 100 METHOD OF TEST Air

8. WATER ZONES (depth): 285'

9. CHLORINATION Type HTH Amount \_\_\_\_\_

10. CASING:  
Depth Diameter Wall Thickness or Weight/Ft. Material  
From 0 To 108' Ft. 6" Galv.  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_

If additional space is needed use back of form

**LOCATION SKETCH**

(Show direction and distance from at least two State Roads, or other map reference points)

11. GROUT:  
Depth Material Method  
From 0 To 20 Ft. Grout Poured  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_

12. SCREEN:  
Depth Diameter Slot Size Material  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_ in. \_\_\_\_\_

13. GRAVEL PACK:  
Depth Size Material  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_

14. REMARKS: \_\_\_\_\_

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

SIGNATURE OF CONTRACTOR OR AGENT \_\_\_\_\_ DATE \_\_\_\_\_

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Well #23

FOR OFFICE USE ONLY

Quad. No. \_\_\_\_\_ Serial No. \_\_\_\_\_  
 Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Pc \_\_\_\_\_  
 Minor Basin \_\_\_\_\_  
 Basin Code \_\_\_\_\_  
 Header Ent. \_\_\_\_\_ GW-1 Ent. \_\_\_\_\_

**WELL CONSTRUCTION RECORD**

DRILLING CONTRACTOR Air Drilling Co.  
 DRILLER REGISTRATION NUMBER 244

STATE WELL CONSTRUCTION PERMIT NUMBER: \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Statesville  
 (Road, Community, or Subdivision and Lot No.)

County: Iredell

2. OWNER Iredell Water Corp.  
 ADDRESS P.O. Box # 211  
(Street or Route No.)  
Statesville N.C. 28577  
City or Town State Zip Code

Depth		DRILLING LOG Formation Description
From	To	
0	45'	Dir.
45'	545'	Rock

3. DATE DRILLED 10-16-95 USE OF WELL Water System

4. TOTAL DEPTH 545' CUTTINGS COLLECTED  Yes  No

5. DOES WELL REPLACE EXISTING WELL?  Yes  No

6. STATIC WATER LEVEL: \_\_\_\_\_ FT.  above TOP OF CASING,  
 below TOP OF CASING IS \_\_\_\_\_ FT. ABOVE LAND SURFACE.

7. YIELD (gpm): 30 METHOD OF TEST Air

8. WATER ZONES (depth): 500' & 540'

9. CHLORINATION: Type HTH Amount \_\_\_\_\_

10. CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
0		43'	6"		Galv.
From		To	Ft.		
From		To	Ft.		

If additional space is needed use back of form.

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

11. GROUT:

From	Depth	To	Material	Method
0		20	Grout	Poured
From		To	Ft.	
From		To	Ft.	

12. SCREEN:

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

13. GRAVEL PACK:

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

14. REMARKS: \_\_\_\_\_

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

SIGNATURE OF CONTRACTOR OR AGENT \_\_\_\_\_ DATE \_\_\_\_\_  
Submit original to Division of Environmental Management and Compliance well owner



**WELL CONSTRUCTION RECORD**

DRILLING CONTRACTOR: Air Drilling Co.

DRILLER REGISTRATION NUMBER: 244

STATE WELL CONSTRUCTION PERMIT NUMBER:

1. WELL LOCATION: (Show sketch of the location below)  
 Nearest Town: Statesville County: Iredell

Miller Fram Rd.  
 (Road, Community, or Subdivision and Lot No.)

2. OWNER Iredell Water Corp.  
 ADDRESS P.O. Box 711  
Statesville NC 28677  
 (Street or Route No.)  
 City or Town State Zip Code

DEPTH		DRILLING LOG Formation/Description
From	To	
0	47'	Drill
47'	425'	Rock

3. DATE DRILLED 4-8-94 USE OF WELL Water System  
 4. TOTAL DEPTH 425'  
 5. CUTTINGS COLLECTED YES  NO   
 6. DOES WELL REPLACE EXISTING WELL? YES  NO   
 7. STATIC WATER LEVEL Below Top of Casing: \_\_\_\_\_ FT.  
 (Use "+" if Above Top of Casing)  
 8. TOP OF CASING IS 1 1/2 FT. Above Land Surface\*  
 \* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118  
 9. YIELD (gpm): 205 METHOD OF TEST Air  
 10. WATER ZONES (depth): 400'

11. CHLORINATION: Type HTH Amount \_\_\_\_\_  
 12. CASING:

If additional space is needed use back of form

From	To	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
0	47	Ft.	8		Galv.
_____	_____	Ft.	_____	_____	_____
_____	_____	Ft.	_____	_____	_____

**LOCATION SKETCH**

(Show direction and distance from at least two State Roads, or other map reference points)

13. GROUT:  
 From 0 To 20 Depth Ft. Material Grout Method Poured

14. SCREEN:  
 From \_\_\_\_\_ To \_\_\_\_\_ Depth Ft. Diameter in. Slot Size in. Material

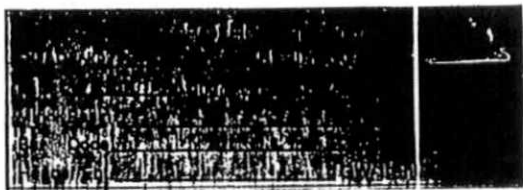
15. SAND/GRAVEL PACK:  
 From \_\_\_\_\_ To \_\_\_\_\_ Depth Ft. Size Material

16. 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.

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North Carolina - Department of Environment, Health, and Natural Resources  
Division of Environmental Management - Groundwater Section  
P.O. Box 29535 - Raleigh, N.C. 27626-0535  
Phone (919) 733-3221



### WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: Air Drilling Co.

DRILLER REGISTRATION NUMBER: 244

STATE WELL CONSTRUCTION PERMIT NUMBER: \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)  
Nearest Town: Statesville County: Iredell

(Road, Community, or Subdivision and Lot No.)  
2. OWNER Iredell Water Corp.  
ADDRESS P.O. Box 711  
(Street or Route No.)  
Statesville NC 28687  
City or Town State Zip Code

DEPTH		DRILLING LOG Formation Description
From	To	
0	46'	Dirt
52'	405'	Rock

3. DATE DRILLED 8-5-95 USE OF WELL Domestic  
4. TOTAL DEPTH 405'  
5. CUTTINGS COLLECTED YES  NO   
6. DOES WELL REPLACE EXISTING WELL? YES  NO   
7. STATIC WATER LEVEL Below Top of Casing: \_\_\_\_\_ FT.  
(Use "-" if Above Top of Casing)  
8. TOP OF CASING IS 14 FT. Above Land Surface\*  
\* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118  
9. YIELD (gpm): 300 METHOD OF TEST Air  
10. WATER ZONES (depth): 280' & 400'

11. CHLORINATION: Type HTH Amount \_\_\_\_\_ If additional space is needed use back of form  
12. CASING: \_\_\_\_\_

Depth		Diameter	Wall Thickness or Weight/FT.	Material Galv.
From	To			
0	52'	8"		
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

LOCATION SKETCH  
(Show direction and distance from at least two State Roads, or other map reference points)

13. GROUT:

Depth		Material	Method Poured
From	To		
0	20	Grout	
_____	_____	_____	_____

14. SCREEN:

Depth		Diameter	Slot Size	Material
From	To			
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

15. SAND/GRAVEL PACK:

Depth		Size	Material
From	To		
_____	_____	_____	_____
_____	_____	_____	_____

16. 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.

*Doris P. Bowles*

SIGNATURE OF CONTRACTOR OR AGENT  
Submit original to Division of Environmental Management and copy to well owner.

DATE

FOR OFFICE USE ONLY	
QUAD. NO.	SERIAL NO.
Lat.	Long.
Minor Basin	RO
Basin Code	
Header Ent.	GW-1 Ent.

**WELL CONSTRUCTION RECORD**

DRILLING CONTRACTOR: Air Drilling Co.

STATE WELL CONSTRUCTION PERMIT NUMBER: \_\_\_\_\_

DRILLER REGISTRATION NUMBER: 244

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Statesville County: Iredell

(Road, Community, or Subdivision and Lot No.)

2. OWNER Iredell Water Corp.

ADDRESS P.O. Box 711

Statesville, N.C. 28687

City or Town State Zip Code

3. DATE DRILLED 5-2-96 USE OF WELL Domestic

4. TOTAL DEPTH 565'

5. CUTTINGS COLLECTED YES  NO

6. DOES WELL REPLACE EXISTING WELL? YES  NO

7. STATIC WATER LEVEL Below-Top of Casing: \_\_\_\_\_ FT.

(Use "+" if Above Top of Casing)

8. TOP OF CASING IS 1 1/2 FT. Above Land Surface\*

\* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 150 METHOD OF TEST air

10. WATER ZONES (depth): 550' & 560'

DEPTH		DRILLING LOG Formation Description
From	To	
0	60'	dirt
60'	565'	rock

11. CHLORINATION: Type HTH Amount \_\_\_\_\_

If additional space is needed use back of form

12. CASING:

From	To	Depth	Diameter	Wall Thickness or Weight/FT.	Material
0	60		8		Galv.
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

LOCATION SKETCH  
 (Show direction and distance from at least two State Roads, or other map reference points)

13. GROUT:

From	To	Depth	Material	Method
0	20		Grout	Poured
_____	_____	_____	_____	_____

14. SCREEN:

From	To	Depth	Diameter	Slot Size	Material
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

15. SAND/GRAVEL PACK:

From	To	Depth	Size	Material
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

16. 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.

*Doris Bowler*

NATURE OF CONTRACTOR OR AGENT

DATE

W44  
28

Carolina - Department of Environment, Health, and Natural Resources  
Division of Environmental Management - Groundwater Section  
P.O. Box 29535 - Raleigh, N.C. 27626-0535  
Phone (919) 733-3221



**WELL CONSTRUCTION RECORD**

DRILLING CONTRACTOR: Air Drilling Co.

STATE WELL CONSTRUCTION PERMIT NUMBER: \_\_\_\_\_

DRILLER REGISTRATION NUMBER: 244

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Harmony County: Iredell

Rimrock Rd.

(Road, Community, or Subdivision and Lot No.)

2. OWNER Iredell Water Corp.

ADDRESS P.O. Box 711

(Street or Route No.)

Statesville, N.C. 28687

City or Town State Zip Code

DEPTH  
From To

DRILLING LOG  
Formation Description

0 52'  
52' 305'

Dirt  
Rock

3. DATE DRILLED 6-20-97 USE OF WELL Domestic

4. TOTAL DEPTH 305'

5. CUTTINGS COLLECTED YES  NO

6. DOES WELL REPLACE EXISTING WELL? YES  NO

7. STATIC WATER LEVEL Below Top of Casing: \_\_\_\_\_ FT.

(Use "+" if Above Top of Casing)

8. TOP OF CASING IS 1 1/2 FT. Above Land Surface\*

\* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 100 ± METHOD OF TEST Air

10. WATER ZONES (depth): 250' & 300'

11. CHLORINATION: Type HTH Amount \_\_\_\_\_

If additional space is needed use back of form

12. CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
0		52	8"		Galv.

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

13. GROUT:

From	Depth	To	Material	Method
0		20	Grout	Poured

14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material

15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material

16. 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.

*Doris P. Bowles*

SIGNATURE OF CONTRACTOR OR AGENT

DATE





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North Carolina - Department of Environment, Health, and Natural Resources  
Division of Environmental Management - Groundwater Section  
P.O. Box 29535 - Raleigh, N.C. 27626-0535  
Phone (919) 733-3221

FOR OFFICE USE ONLY	
QUAD. NO.	SERIAL NO.
Lat.	Long.
Minor Basin	
Basin Code	
Header Ent.	GW-1 Ent.

**WELL CONSTRUCTION RECORD**

DRILLING CONTRACTOR: Air Drilling Co.

STATE WELL CONSTRUCTION PERMIT NUMBER: \_\_\_\_\_

DRILLER REGISTRATION NUMBER: 244

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: \_\_\_\_\_ County: Iredell

Rimmer Rd.  
(Road, Community, or Subdivision and Lot No.)

2. OWNER: Iredell Water Corp.

ADDRESS: P.O. Box 711  
(Street or Route No.)

Statesville, N.C. 28687  
City or Town State Zip Code

3. DATE DRILLED 11-2-98 USE OF WELL Domestic

4. TOTAL DEPTH 725'

5. CUTTINGS COLLECTED YES  NO

6. DOES WELL REPLACE EXISTING WELL? YES  NO

7. STATIC WATER LEVEL Below Top of Casing: \_\_\_\_\_ FT.  
(Use "+" if Above Top of Casing)

8. TOP OF CASING IS 1 1/2 FT. Above Land Surface\*

\* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 75 METHOD OF TEST Air

10. WATER ZONES (depth): 720'

11. CHLORINATION: Type HTH Amount \_\_\_\_\_

12. CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
0		57	8"		Galv.
_____		_____	_____	_____	_____
_____		_____	_____	_____	_____

13. GROUT:

From	Depth	To	Material	Method
0		20	Grout	Poured
_____		_____	_____	_____

14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
_____		_____	_____	_____	_____
_____		_____	_____	_____	_____
_____		_____	_____	_____	_____

15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
_____		_____	_____	_____
_____		_____	_____	_____

16. REMARKS: \_\_\_\_\_

DEPTH		DRILLING LOG Formation Description
From	To	
0	57'	Dirt
57'	725'	Rock
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

If additional space is needed use back of form

**LOCATION SKETCH**

(Show direction and distance from at least two State Roads, or other map reference points)

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.

*Doris P. Bowles*

SIGNATURE OF CONTRACTOR OR AGENT

DATE

31  
 North Carolina - Department of Environment, Health, and Natural Resources  
 Division of Environmental Management - Groundwater Section  
 P.O. Box 29535 - Raleigh, N.C. 27626-0535  
 Phone (919) 733-3221

FOR OFFICE USE ONLY	
QUA. NO.	SERIAL NO.
Lat.	Long.
Minor Basin	
Basin Code	
Header Ent.	GW-1 E. L.

**WELL CONSTRUCTION RECORD**

DRILLING CONTRACTOR: Air Drilling Co.

STATE WELL CONSTRUCTION PERMIT NUMBER: \_\_\_\_\_

DRILLER REGISTRATION NUMBER: 244

1. WELL LOCATION: (Show sketch of the location below)  
 Nearest Town: Statesville County: Iredell

Red Chimney Rd.  
 (Road, Community, or Subdivision and Lot No.)

2. OWNER Iredell Water Corp.  
 ADDRESS P.O. Box 711  
 (Street or Route No.)  
Statesville, N.C. 28687

DEPTH		DRILLING LOG
From	To	Formation Description
0	53'	Dirt
53'	565'	Rock

City or Town \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

3. DATE DRILLED 11-4-98 USE OF WELL Domestic

4. TOTAL DEPTH 565'

5. CUTTINGS COLLECTED YES  NO

6. DOES WELL REPLACE EXISTING WELL? YES  NO

7. STATIC WATER LEVEL Below Top of Casing: \_\_\_\_\_ FT.  
 (Use "+" if Above Top of Casing)

8. TOP OF CASING IS 1 1/2 FT. Above Land Surface\*

\* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 130 METHOD OF TEST Air

10. WATER ZONES (depth): 560'

11. CHLORINATION: Type HTH Amount \_\_\_\_\_

If additional space is needed use back of form.

12. CASING:

Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From <u>0</u> To <u>53</u> Ft.	<u>8</u>		<u>Galv.</u>
From _____ To _____ Ft.			
From _____ To _____ Ft.			

LOCATION SKETCH  
 (Show direction and distance from at least two State Roads, or other map reference points)

13. GROUT:

Depth	Material	Method
From <u>0</u> To <u>20</u> Ft.	<u>Grout</u>	<u>Poured</u>
From _____ To _____ Ft.		

14. SCREEN:

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

15. SAND/GRAVEL PACK:

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

16. 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.

Doris P. Bowles  
 SIGNATURE OF CONTRACTOR OR AGENT

DATE

North Carolina - Department of Environment, Health, and Natural Resources  
 Division of Environmental Management - Groundwater Section  
 P.O. Box 29535 - Raleigh, N.C. 27626-0535  
 Phone (919) 733-3221

FOR OFFICE USE ONLY		
QUAD NO.	SERIAL NO.	
Lat.	Long.	RO
Mino. Basin		
Basin Code		
Header Ent.		GW-I.E.L.

**WELL CONSTRUCTION RECORD**

DRILLING CONTRACTOR: Air Drilling Co.

STATE WELL CONSTRUCTION PERMIT NUMBER: \_\_\_\_\_

DRILLER REGISTRATION NUMBER: 244

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Statesville County: Iredell

(Road, Community, or Subdivision and Lot No.)

2. OWNER Iredell Water Corp.

ADDRESS P.O. Box 711

(Street or Route No.)

Statesville, N.C. 28687

City or Town State Zip Code

3. DATE DRILLED 11-6-98 USE OF WELL Domestic

4. TOTAL DEPTH 725'

5. CUTTINGS COLLECTED YES  NO

6. DOES WELL REPLACE EXISTING WELL? YES  NO

7. STATIC WATER LEVEL Below Top of Casing: \_\_\_\_\_ FT.

(Use "+" if Above Top of Casing)

8. TOP OF CASING IS 1 1/2 FT. Above Land Surface\*

\* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 125 METHOD OF TEST Air

10. WATER ZONES (depth): 700'

11. CHLORINATION: Type HTH Amount \_\_\_\_\_

12. CASING:

If additional space is needed use back of form

Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From <u>0</u> To <u>94</u> Ft.	<u>8</u>		<u>Galv.</u>
From _____ To _____ Ft.			
From _____ To _____ Ft.			

13. GROUT:

Depth	Material	Method
From <u>0</u> To <u>20</u> Ft.	<u>Grout</u>	<u>Poured</u>
From _____ To _____ Ft.		

14. SCREEN:

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

15. SAND/GRAVEL PACK:

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

16. REMARKS: \_\_\_\_\_

**LOCATION SKETCH**

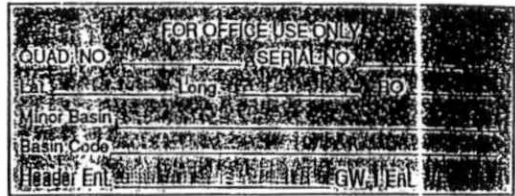
(Show direction and distance from at least two State Roads, or other map reference points)

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.

Doni P. Bowles

SIGNATURE OF CONTRACTOR OR AGENT

DATE



**WELL CONSTRUCTION RECORD**

DRILLING CONTRACTOR: Air Drilling Co.

DRILLER REGISTRATION NUMBER: 244

STATE WELL CONSTRUCTION PERMIT NUMBER: \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Statesville County: Iredell

Lundy Property  
 (Road, Community, or Subdivision and Lot No.)

2. OWNER Iredell Water Corp.  
 ADDRESS P.O. Box 711

(Street or Route No.)  
Statesville, N.C. 28687  
 City or Town State Zip Code

DEPTH  
 From To

DRILLING LOG  
 Formation Description

0 70'  
70' 825'

3. DATE DRILLED 1-10-00 USE OF WELL \_\_\_\_\_

4. TOTAL DEPTH 825'

5. CUTTINGS COLLECTED YES  NO

6. DOES WELL REPLACE EXISTING WELL? YES  NO

7. STATIC WATER LEVEL Below Top of Casing: \_\_\_\_\_ FT.

8. TOP OF CASING IS 1 1/2 FT. Above Land Surface\*  
 (Use "\*" if Above Top of Casing)

\* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 175 METHOD OF TEST air

10. WATER ZONES (depth): 300', 400', 825'

11. CHLORINATION: Type HTH Amount \_\_\_\_\_

If additional space is needed use back of form

12. CASING:

Depth	Diameter	Wall Thickness or Weight/FT.	Material
From <u>0</u> To <u>70</u> Ft.	<u>8</u>		<u>Galv.</u>
From _____ To _____ Ft.			
From _____ To _____ Ft.			

LOCATION SKETCH  
 (Show direction and distance from at least two State Roads, or other map reference points)

13. GROUT:

Depth	Material	Method
From _____ To _____ Ft.		
From _____ To _____ Ft.		

14. SCREEN:

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

15. SAND/GRAVEL PACK:

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

16. 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.

*[Signature]*  
 SIGNATURE OF CONTRACTOR OR AGENT

1-12-00  
 DATE



#34

# NON RESIDENTIAL WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR CERTIFICATION # 2901

**1. WELL CONTRACTOR:**  
 CHAD HARTNESS  
 Well Contractor (Individual) Name  
 AIR DRILLING, INC.  
 Well Contractor Company Name  
 STREET ADDRESS 176 COMMERCE BLVD.  
STATESVILLE, NC 28625  
 City or Town State Zip Code  
 ( ) - Phone number  
 Area code - Phone number

**2. WELL INFORMATION:**  
 SITE WELL ID #(if applicable) \_\_\_\_\_  
 STATE WELL PERMIT #(if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT #(if applicable) \_\_\_\_\_  
 WELL USE (Check Applicable Box) Monitoring  Municipal/Public   
 Industrial/Commercial  Agricultural  Recovery  Injection   
 Irrigation  Other  (list use) \_\_\_\_\_  
 DATE DRILLED 11-27-06  
 TIME COMPLETED 10:30 AM  PM

**3. WELL LOCATION:**  
 CITY: STATESVILLE COUNTY IREDELL  
296 TURNERSBURG HIGHWAY  
 (Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)  
 TOPOGRAPHIC / LAND SETTING:  
 Slope  Valley  Flat  Ridge  Other \_\_\_\_\_  
 (check appropriate box)  
 LATITUDE 3 \_\_\_\_\_  
 LONGITUDE \_\_\_\_\_  
 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. FACILITY** - is the name of the business where the well is located  
 FACILITY ID #(if applicable) \_\_\_\_\_  
 NAME OF FACILITY \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_  
 City or Town State Zip Code  
 CONTACT PERSON IREDELL WATER CORP.  
 MAILING ADDRESS P.O. BOX 711  
STATESVILLE, NC 28687  
 City or Town State Zip Code  
 ( ) - Phone number  
 Area code - Phone number

**5. WELL DETAILS:**  
 a. TOTAL DEPTH: 825 FT.  
 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 1 1/2 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): 80 METHOD OF TEST AIR

f. DISINFECTION: Type HTH Amount \_\_\_\_\_

g. WATER ZONES (depth):  
 From 80 To 85 From 140 To 180  
 From \_\_\_\_\_ To \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 From \_\_\_\_\_ To \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

**6. CASING:**

Depth	Diameter	Thickness/Weight	Material
From <u>0</u> To <u>71</u> Ft.	<u>8"</u>		<u>GALV.</u>
From _____ To _____ Ft.			
From _____ To _____ Ft.			

**7. GROUT:**

Depth	Material	Method
From <u>0</u> To <u>71</u> Ft.	<u>GROUT</u>	<u>PUMPED</u>
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
<u>0'</u>	<u>71'</u>	<u>DIRT</u>
<u>71'</u>	<u>825'</u>	<u>ROCK</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**11. REMARKS:**  
8 INCH DRIVE SHOE

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.

Chad Hartness 11/27/06  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE  
Chad Hartness  
 PRINTED NAME OF PERSON CONSTRUCTING THE WELL



#35

# NON RESIDENTIAL WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR CERTIFICATION # 2901

### 1. WELL CONTRACTOR:

CHAD HARTNESS

Well Contractor (Individual) Name

AIR DRILLING, INC.

Well Contractor Company Name

STREET ADDRESS 176 COMMERCE BLVD.

STATESVILLE, NC 28625

City or Town State Zip Code

(704) 872-7614

Area code- Phone number

### 2. WELL INFORMATION:

SITE WELL ID #(if applicable)

STATE WELL PERMIT #(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring  Municipal/Public

Industrial/Commercial  Agricultural  Recovery  Injection

Irrigation  Other  (list use)

DATE DRILLED 12-07-06

TIME COMPLETED 2:55 AM  PM

### 3. WELL LOCATION:

CITY: STATESVILLE COUNTY: IREDELL

BLUEGILL - LOT #36

(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other

(check appropriate box)

LATITUDE

LONGITUDE

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. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable)

NAME OF FACILITY IREDELL WATER CORP.

STREET ADDRESS

City or Town State Zip Code

CONTACT PERSON

MAILING ADDRESS P.O. BOX 711

STATESVILLE, NC 28687

City or Town State Zip Code

( ) -

Area code - Phone number

### 5. WELL DETAILS:

a. TOTAL DEPTH: 485 FT.

b. DOES WELL REPLACE EXISTING WELL? YES  NO

c. WATER LEVEL Below Top of Casing: 30 FT.  
(Use "\*" if Above Top of Casing)

d. TOP OF CASING IS 1 1/2 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): 300 METHOD OF TEST AIR

f. DISINFECTION: Type HTH Amount

g. WATER ZONES (depth):

From 290 To 291 From 450 To 451

From To From To

From To From To

### 6. CASING:

Depth Diameter Thickness/ Material  
From 0 To 70 Ft. 8 INCH Weight GALV

From To Ft. Weight Material

From To Ft. Weight Material

### 7. GROUT:

Depth Material Method  
From 0 To 70 Ft. GROUT PUMPED

From To Ft. Material Method

From To Ft. Material Method

### 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. Material

From To Ft. Material

From To Ft. Material

### 10. DRILLING LOG

From To Formation Description

0' 70' DIRT

70' 485' ROCK

RECEIVED  
Mooresville Regional Office

JUN 14 2007

NCDENR  
Public Water Supply

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.

Chad Hartness 12/7/06  
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Chad Hartness  
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center - Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b Rev. 7/05



36

# NON RESIDENTIAL WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR CERTIFICATION # 2901

**1. WELL CONTRACTOR:**  
 CHAD HARTNESS  
 Well Contractor (Individual) Name  
 AIR DRILLING, INC.  
 Well Contractor Company Name  
 STREET ADDRESS 176 COMMERCE BLVD.  
 STATESVILLE, NC 28625  
 City or Town State Zip Code  
 (704) 872-7614  
 Area code- Phone number

**2. WELL INFORMATION:**  
 SITE WELL ID #(if applicable)  
 STATE WELL PERMIT #(if applicable)  
 DWQ or OTHER PERMIT #(if applicable)  
 WELL USE (Check Applicable Box) Monitoring  Municipal/Public   
 Industrial/Commercial  Agricultural  Recovery  Injection   
 Irrigation  Other  (list use)  
 DATE DRILLED 12-27-06  
 TIME COMPLETED 3:50 AM  PM

**3. WELL LOCATION:**  
 CITY: STATESVILLE COUNTY IREDELL  
 JENNINGS ROAD  
 (Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)  
 TOPOGRAPHIC / LAND SETTING:  
 Slope  Valley  Flat  Ridge  Other  
 (check appropriate box)  
 LATITUDE 3 \_\_\_\_\_  
 LONGITUDE \_\_\_\_\_  
 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. FACILITY:** - is the name of the business where the well is located.  
 FACILITY ID #(if applicable)  
 NAME OF FACILITY IREDELL WATER CORP.  
 STREET ADDRESS P.O. BOX 711  
 STATESVILLE, NC 28687  
 City or Town State Zip Code  
 CONTACT PERSON  
 MAILING ADDRESS  
 City or Town State Zip Code  
 Area code - Phone number

**5. WELL DETAILS:**  
 a. TOTAL DEPTH: 985 FT  
 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 1 1/2 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): 45 METHOD OF TEST AIR

f. DISINFECTION: Type HTH Amount

g. WATER ZONES (depth):  
 From 960 To 961 From To  
 From To From To  
 From To From To

**6. CASING:** Thickness/ Material  
 Depth Diameter Weight GALV.  
 From 0.0 To 52 Ft. 8 INCH  
 From To Ft.  
 From To Ft.

**7. GROUT:** Depth Material Method  
 From 0.0 To 52 Ft. GROUT 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' 52' DIRT  
 52' 985' ROCK

**11. REMARKS:**  
 8 INCH DRIVE SHOE

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.  
 Signature of Chad Hartness  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE  
 Chad Hartness  
 PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center - Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b Rev. 7/05







# NON RESIDENTIAL WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR CERTIFICATION # 2901

Well 38

**1. WELL CONTRACTOR:**  
 CHAD HARTNESS  
 Well Contractor (Individual) Name  
 AIR DRILLING, INC.  
 Well Contractor Company Name  
 STREET ADDRESS 176 COMMERCE BLVD  
 STATESVILLE NC 28625  
 City or Town State Zip Code  
 (704) 872-7614  
 Area code- Phone number

**2. WELL INFORMATION:**  
 SITE WELL ID #(if applicable)  
 STATE WELL PERMIT #(if applicable)  
 DWQ or OTHER PERMIT #(if applicable)  
 WELL USE (Check Applicable Box) Monitoring  Municipal/Public   
 Industrial/Commercial  Agricultural  Recovery  Injection   
 Irrigation  Other  (list use)  
 DATE DRILLED 8-6-10  
 TIME COMPLETED 4:00 AM  PM

**3. WELL LOCATION:**  
 CITY: STATESVILLE COUNTY IREDELL  
 BRANCHWOOD RD. 155 West Winds Lp  
 (Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)  
 TOPOGRAPHIC / LAND SETTING:  
 Slope  Valley  Flat  Ridge  Other  
 (check appropriate box)  
 LATITUDE 35° 52. 429  
 LONGITUDE 80° 55. 499  
 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. FACILITY-** is the name of the business where the well is located:  
 FACILITY ID #(if applicable)  
 NAME OF FACILITY IREDELL WATER  
 STREET ADDRESS  
 City or Town State Zip Code  
 CONTACT PERSON  
 MAILING ADDRESS P.O. BOX 711  
 STATESVILLE NC 28625  
 City or Town State Zip Code  
 Area code - Phone number

**5. WELL DETAILS:**  
 a. TOTAL DEPTH: 547 FT  
 b. DOES WELL REPLACE EXISTING WELL? YES  NO   
 c. WATER LEVEL Below Top of Casing: \_\_\_\_\_ FT.  
 (Use "\*" if Above Top of Casing)

d. TOP OF CASING IS 1 1/2 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): 500 METHOD OF TEST AIR

f. DISINFECTION: Type HTH Amount \_\_\_\_\_

g. WATER ZONES (depth):  
 From 160' To 161' From \_\_\_\_\_ To \_\_\_\_\_  
 From 546' To 547' From \_\_\_\_\_ To \_\_\_\_\_  
 From \_\_\_\_\_ To \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

6. CASING: Depth Diameter Thickness/Weight Material  
 From 0 To 68 Ft. 8" \_\_\_\_\_ GALV  
 From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_  
 From \_\_\_\_\_ To \_\_\_\_\_ Ft. \_\_\_\_\_

7. GROUT: Depth Material Method  
 From 0 To 20 Ft. GROUT POURED  
 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' 63' DIRT  
 63' 547' ROCK

11. REMARKS:

I 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.  
 Chad Hartness 8-6-10  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE  
 CHAD HARTNESS  
 PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center - Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b Rev. 7/05

Well # 39  
New



### NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality  
WELL CONTRACTOR CERTIFICATION # 2901

1. WELL CONTRACTOR:  
**CHAD HARTNESS**  
 Well Contractor (Individual) Name  
**AIR DRILLING, INC**  
 Well Contractor Company Name  
**176 COMMERCE BLVD**  
 Street Address  
**STATESVILLE NC 28625**  
 City or Town State Zip Code

(704) 872-7614  
Area code Phone number

2. WELL INFORMATION:  
 WELL CONSTRUCTION PERMIT# \_\_\_\_\_  
 OTHER ASSOCIATED PERMIT# (if applicable) \_\_\_\_\_  
 SITE WELL ID # (if applicable) \_\_\_\_\_

3. WELL USE (Check One Box) Monitoring  Municipal/Public   
 Industrial/Commercial  Agricultural  Recovery  Injection   
 Irrigation  Other  (list use) \_\_\_\_\_  
 DATE DRILLED 8-21-14

4. WELL LOCATION:  
1009 JENNINGS RD.  
 (Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)  
 CITY: STATESVILLE COUNTY: IREDELL  
 TOPOGRAPHIC / LAND SETTING: (check appropriate box)  
 Slope  Valley  Flat  Ridge  Other \_\_\_\_\_  
 LATITUDE 35 ° 53 ' 438.0000 " DMS OR \_\_\_\_\_ DD  
 LONGITUDE 80 ° 52 ' 418.0000 " DMS OR \_\_\_\_\_ DD  
 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)

5. FACILITY (Name of the business where the well is located.)  
 Facility Name \_\_\_\_\_ Facility ID# (if applicable) \_\_\_\_\_  
 Street Address \_\_\_\_\_  
 City or Town \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_  
**IREDELL WATER CORP.**  
 Contact Name \_\_\_\_\_  
**P.O. BOX 711**  
 Mailing Address \_\_\_\_\_  
**STATESVILLE NC 28687**  
 City or Town State Zip Code  
 ( ) \_\_\_\_\_  
 Area code Phone number \_\_\_\_\_

6. WELL DETAILS:  
 a. TOTAL DEPTH: 750 FT  
 b. DOES WELL REPLACE EXISTING WELL? YES  NO   
 c. WATER LEVEL Below Top of Casing: 75 FT.  
 (Use "+" if Above Top of Casing)

d. TOP OF CASING IS 1 1/2 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): 400 METHOD OF TEST AIR

f. DISINFECTION: Type HTH Amount \_\_\_\_\_

g. WATER ZONES (depth):  
 Top 240' Bottom 241' Top \_\_\_\_\_ Bottom \_\_\_\_\_  
 Top 749' Bottom 750' Top \_\_\_\_\_ Bottom \_\_\_\_\_  
 Top \_\_\_\_\_ Bottom \_\_\_\_\_ Top \_\_\_\_\_ Bottom \_\_\_\_\_

7. CASING: Depth Diameter Thickness/Weight Material  
 Top 0 Bottom 64 Ft. 8" \_\_\_\_\_ GALV  
 Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_  
 Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_

8. GROUT: Depth Material Method  
 Top 0 Bottom 62 Ft. GROUT PUMPED  
 Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_  
 Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_

9. SCREEN: Depth Diameter Slot Size Material  
 Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_  
 Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_  
 Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_ in. \_\_\_\_\_

10. SAND/GRAVEL PACK: Depth Size Material  
 Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_  
 Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_  
 Top \_\_\_\_\_ Bottom \_\_\_\_\_ Ft. \_\_\_\_\_

11. DRILLING LOG

Top	Bottom	Formation Description
0'	54'	DIRT
54'	750'	ROCK
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

12. 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.  
 \_\_\_\_\_  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE 8-21-14  
**CHAD HARTNESS**  
 PRINTED NAME OF PERSON CONSTRUCTING THE WELL

## **Well Pump Test Results**

DEPARTMENT OF ENVIRONMENTAL RESOURCES  
 DENR-GROUNDWATER SECTION  
 WATER QUALITY DIVISION  
 1636 MAIL SERVICE CENTER  
 RALEIGH NC 27699-1636

ENVIRONMENTAL RESOURCES  
 DEPARTMENT

PUMPING TEST  
 RECORD

Test Conducted by: Gary Wilhelm Well Construction Permit. No. \_\_\_\_\_

1. WELL LOCATION: Nearest Town: Statesville County: Iredell  
JAMES FARM ROAD - TV TOWER [Quadrangle] No. \_\_\_\_\_  
 (Road No., Community, or Subdivision and Lot No.)
2. OWNER: Iredell Water Corp., P.O. Box 711, Statesville, NC 28687  
 Name Address
3. USE OF WELL: ( ) Domestic (X) Public ( ) Industrial ( ) Irrigation ( ) \_\_\_\_\_  
 Other
4. WELL DEPTH: 605 ft. Casing Diameter 8 in. Casing type: Galv.
5. DRILLING CONTRACTOR: Air Drilling Company Was casing grouted? Yes
6. STATIC WATER LEVEL: 10 ft. <sup>above</sup>/<sub>below</sub> top of casing.  
 Date Measured: 01-20-03 Casing is 2½ ft. above land surface.
7. WELL YIELD: 220 gpm. Specific Capacity: \_\_\_\_\_ gpm/ft.-dd.
8. PUMPING WATER LEVEL: 95 ft. after 24 hours at 220 gpm.
9. CHLORINATION: Type HTH Amount \_\_\_\_\_
10. TIME AND DATE: PUMP STARTED: 1/20/03 9:00 AM PUMP STOPPED: 01/21/03 9:00 AM
11. WATER LEVEL MEASURING DEVICE: Water Level Ind. FLOW MEASURING DEVICE: Meter
12. TEST PUMP: Type Sub Make Grundfos Horse Power 20  
 Capacity \_\_\_\_\_ gpm at \_\_\_\_\_ ft. Intake Depth \_\_\_\_\_ ft.

Time	Water Level	Pumping Rate (GPM)	Remarks
01/20/03 9:00 AM	10	240	Meter Start: 10230100
9:05	43	232	Meter Stop: 10515200
9:10	68	230	20 HP Grundfos
9:15	71	227	Set 126'
9:20	74	227	
9:25	76	227	
9:30	77	226	
9:35	78	226	
9:40	79	226	
9:45	80	226	
9:50	81	226	
9:55	81	226	
10:00	82	226	

Pumping Test Record

Continued

Page 2 of 3

Time	Water Level	Pumping Rate (GPM)			Remarks
10:15	83	226			
10:30	83	225			
10:45	84	225			
11:00	85	225			
12:00	87	221			
1:00	88	220			
2:00	88	220			
3:00	89	220			
4:00	89	220			
5:00	91	220			
6:00	92	220			
7:00	93	220			
8:00	93	220			
9:00	94	220			
10:00	95	220			
11:00	95	220			
12:00	95	220			
1:00	95	220			
2:00	95	220			
3:00	95	220			
4:00	95	220			
5:00	95	220			
6:00	95	220			
7:00	95	220			
8:00	95	220			
9:00	95	220 (END OF PUMP TEST)			



WELL #5

DEPARTMENT OF ENVIRONMENTAL RESOURCES  
DENR-GROUNDWATER SECTION  
WATER QUALITY DIVISION  
1636 MAIL SERVICE CENTER  
RALEIGH NC 27699-1636

PUMPING TEST RECORD

Test Conducted by: Gary K. Wilhelm Well Construction Permit. No. \_\_\_\_\_

- WELL LOCATION: Nearest Town: Olin County: Iredell  
Bees Road Quadrangel No. \_\_\_\_\_  
(Road No., Community, or Subdivision and Lot No.)
- OWNER: Iredell Water Corp. P.O. Box 711, Statesville, NC 28687  
Name Address
- USE OF WELL: ( ) Domestic (X) Public ( ) Industrial ( ) Irrigation ( ) Other
- WELL DEPTH: 825 ft. Casing Diameter 8 in. Casing type: Galv.
- DRILLING CONTRACTOR: Air Drilling Company Was casing grouted? Yes
- STATIC WATER LEVEL: 42 ft. <sup>above</sup>/<sub>below</sub> top of casing.  
Date Measured: 2/14/03 Casing is 2 1/2 ft. above land surface.
- WELL YIELD: 74 gpm. Specific Capacity: \_\_\_\_\_ gpm/ft.-dd.
- PUMPING WATER LEVEL: 505 ft. after 24 hours at 74 gpm.
- CHLORINATION: Type HTH Amount \_\_\_\_\_
- TIME AND DATE: PUMP STARTED: 2/14/03 8:30 AM PUMP STOPPED: 2/15/03 8:30 AM
- WATER LEVEL MEASURING DEVICE: Water Level Ind. FLOW MEASURING DEVICE: Meter
- TEST PUMP: Type Sub Make Grundfos Horse Power 15  
Capacity \_\_\_\_\_ gpm at \_\_\_\_\_ T D H. Intake Depth \_\_\_\_\_ ft.

Time	Water Level	Pumping Rate (GPM)	Remarks
2/14/03 8:30 AM	42	120	Meter Start: 01385000
8:35	182	108	Meter Stop: 01489800
8:40	228	105	Pump Set: 505'
8:45	257	101	15 HP Grundfos
8:50	290	99	
8:55	309	97	
9:00	329	94	
9:05	346	92	
9:10	362	92	
9:15	371	89	
9:20	384	89	
9:25	395	88	
9:30	413	86	



W#5

Pumping Test Record  
Continued

Time	Water Level	Pumping Rate (GPM)		Remarks
9:45	430	84		
10:00	438	82		
10:15	447	80		
10:30	455	80		
11:30	469	78		
12:30	481	75		
1:30	489	74		
2:30	492	74		
3:30	493	74		
4:30	496	74		
5:30	496	74		
6:30	496	74		
7:30	498	74		
8:30	499	74		
9:30	502	74		
10:30	504	74		
11:30	505	74		
12:30	505	74		
1:30	505	74		
2:30	505	74		
3:30	505	74		
4:30	505	74		
5:30	505	74		
6:30	505	74		
7:30	505	74		
8:30	505	74	END OF PUMP TEST	

W#5

Pumping Test Record

Continued

PAGE 3 of 3

Time	Water Level	Pumping Rate			Remarks
RECOVERY TEST					
8:35	326				
8:40	212				
8:45	152				
8:50	118				
8:55	102				
9:00	95				
9:05	92				
9:10	89				
9:15	86				
9:20	84				
9:25	82				
9:30	81				
9:45	76				
10:00	73				
10:15	70				
10:30	68				
	END OF RECOVERY TEST				

WELL #11

DEPARTMENT  
 DENR-GROUNDWATER SECTION  
 WATER QUALITY DIVISION  
 1636 MAIL SERVICE CENTER  
 RALEIGH NC 27699-1636

WATER RESOURCES  
 DIVISION

PUMPING TEST  
 RECORD

Test Conducted by: Ken Johnson Well Construction Permit. No. 2608

1. WELL LOCATION: Nearest Town: Turnersburg County: Iredell  
Mitchell Farm Road Quadrangel No. \_\_\_\_\_  
 (Road No., Community, or Subdivision and Lot No.)
2. OWNER: Iredell Water Corp., P.O. Box 711, Statesville, NC 28687  
 Name Address
3. USE OF WELL: ( ) Domestic (x) Public ( ) Industrial ( ) Irrigation ( ) Other
4. WELL DEPTH: 905 ft. Casing Diameter 8 in. Casing type: Galv.
5. DRILLING CONTRACTOR: Air Drilling Company Was casing grouted? Yes
6. STATIC WATER LEVEL: 75 ft. <sup>above</sup>/<sub>below</sub> top of casing.  
 Date Measured: 8/10/04 Casing is 2½ ft. above land surface.
7. WELL YIELD: 42 gpm. Specific Capacity: \_\_\_\_\_ gpm/ft.-dd.
8. PUMPING WATER LEVEL: 315 ft. after 24 hours at 42 gpm.
9. CHLORINATION: Type HTH Amount \_\_\_\_\_
10. TIME AND DATE: PUMP STARTED: 8/10/04 9:00am PUMP STOPPED: 8/11/04 9:00 am
11. WATER LEVEL MEASURING DEVICE: Water Level Indic FLOW MEASURING DEVICE: Meter
12. TEST PUMP: Type Sub Make Grundfos Horse Power 15  
 Capacity \_\_\_\_\_ gpm at \_\_\_\_\_ T D H. Intake Depth \_\_\_\_\_ ft.

Time	Water Level	Pumping Rate/GPM	Remarks
8/10/04			
9:00	75	120	Meter Start: 01652110
9:05	155	115	Meter Stop: 01717235
9:10	180	115	Pump Set 315'
9:15	185	113	
9:20	187	112	
9:25	245	108	
9:30	315	68	
9:35	315	60	
9:40	315	58	
9:45	315	51	
9:50	315	51	
10:00	315	51	
10:15	315	51	

W# 11

Pumping Test Record

Continued

PAGE 2 of 3

Time	Water Level	Pumping Rate/GPM		Remarks
10:30	315	48		
10:45	315	47		
11:00	315	48		
12:00	315	46		
1:00	315	44		
2:00	315	43		
3:00	315	43		
4:00	315	43		
5:00	315	43		
6:00	315	43		
7:00	315	42		
8:00	315	42		
9:00	315	42		
10:00	315	42		
11:00	315	42		
8/11/04				
12:00	315	42		
1:00	315	42		
2:00	315	42		
3:00	315	42		
4:00	315	42		
5:00	315	42		
6:00	315	42		
7:00	315	42		
8:00	315	42		
9:00	315	42		
		END OF PUMP TEST		

W# 11

Pumping Test Record  
Continued

Time	Water Level	Pumping Rate			Remarks
RECOVERY TEST:					
9:00	315				
9:05	205				
9:10	185				
9:15	183				
9:20	181				
9:25	175				
9:30	170				
9:35	165				
9:40	155				
9:45	150				
9:50	143				
9:55	134				
10:00	124				
10:15	107				
10:30	97				
10:45	94				
11:00	91				
END OF RECOVERY TEST					
				SIGNED BY:	<i>Ken Johnson</i>
					Ken Johnson Air Drilling Company

DEPARTMENT OF ENVIRONMENTAL RESOURCES  
 DENR-GROUNDWATER SECTION  
 WATER QUALITY DIVISION  
 1636 MAIL SERVICE CENTER  
 RALEIGH NC 27699-1636

PUMPING TEST RECORD

Test Conducted by: Ken Johnson Well Construction Permit. No. \_\_\_\_\_

1. WELL LOCATION: Nearest Town: Statesville County: Iredell  
Cooper Farm (Road No., Community, or Subdivision and Lot No.) Quadrangel No. \_\_\_\_\_
2. OWNER: Iredell Water Corp., P.O. Box 711, Statesville, NC 28687  
 Name Address
3. USE OF WELL: ( ) Domestic (XX) Public ( ) Industrial ( ) Irrigation ( ) Other
4. WELL DEPTH: 805 ft. Casing Diameter 8 in. Casing type: Galv.
5. DRILLING CONTRACTOR: Air Drilling Company Was casing grouted? Yes
6. STATIC WATER LEVEL: 45 ft. <sup>above</sup>/<sub>below</sub> top of casing.  
 Date Measured: 09-28-05 Casing is 1 1/2 ft. above land surface.
7. WELL YIELD: 200 gpm. Specific Capacity: \_\_\_\_\_ gpm/ft.-dd.
8. PUMPING WATER LEVEL: 161 ft. after 24 hours at 200 gpm.
9. CHLORINATION: Type HTH Amount \_\_\_\_\_
10. TIME AND DATE: PUMP STARTED: 9/28/05 9:00 am PUMP STOPPED: 9/29/05 9:00 am
11. WATER LEVEL MEASURING DEVICE: Water Level Indi-FLOW MEASURING DEVICE: Meter
12. TEST PUMP: Type Sub Make Grundfos Horse Power 20  
 Capacity \_\_\_\_\_ gpm at \_\_\_\_\_ T D H. Intake Depth \_\_\_\_\_ ft.

Time	Water Level	Pumping Rate/GPM	Remarks
9/28/05 9:00	45	220	METER START: 2791230
9:05	77	215	METER STOP: 3083845
9:10	83	215	Pump Set: 200'
9:15	87	215	20 HP Grundfos
9:20	90	215	
9:25	92	214	
9:30	94	214	
9:35	96	214	
9:40	97	212	
9:45	98	212	
9:50	99	212	
9:55	100	211	
10:00	101	211	

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT  
DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. BOX 27687 - Raleigh, N. C. 27611

PUMPING TEST  
RECORD

Test Conducted by: Air Drilling Co. Well Construction Permit No. \_\_\_\_\_

1. WELL LOCATION: Nearest Town: Statesville County: Iredell  
Cool Spring Quadrangel No. \_\_\_\_\_  
(Road No., Community, or Subdivision and Lot No.)
2. OWNER: Iredell Water Corp. P.O. Box 711, Statesville, N.C.  
Name Address
3. USE OF WELL: ( ) Domestic (x) Public ( ) Industrial ( ) Irrigation ( ) Other
4. WELL DEPTH: 405' ft. Casing Diameter 6 1/2 in. Casing type: Galv
5. DRILLING CONTRACTOR: Air Drilling Co. Was casing grouted? yes
6. STATIC WATER LEVEL: 36 ft. <sup>above</sup>/<sub>below</sub> top of casing.  
Date Measured: April 28, 1986 Casing is 1 ft. above land surface.
7. WELL YIELD: 145 gpm. Specific Capacity: \_\_\_\_\_ gpm/ft.-dd.
8. PUMPING WATER LEVEL: 180' ft. after 24 hours at 145 gpm.
9. CHLORINATION: Type HTH Amount \_\_\_\_\_
10. TIME AND DATE: PUMP STARTED: 4-28-86 9:00 AM PUMP STOPPED: 4-29-86 9:00 AM
11. WATER LEVEL MEASURING DEVICE: Water Level Indicator FLOW MEASURING DEVICE: Meeter
12. TEST PUMP: Type Sub Make Pleuger Horse Power 15  
Capacity \_\_\_\_\_ gpm at \_\_\_\_\_ T D H. Intake Depth \_\_\_\_\_ ft.

Time	Water Level	Pumping Rate	Remarks
4-28-86 9:00 AM	35'	230 GPM	Pump Set 276'
9:05	105'	220	
9:10	127'	210	
9:15	135'	205	
9:20	137'	192	
9:25	139'	187	
9:30	142'	185	
9:35	143'	183	
9:40	145'	180	
9:45	147'	177	
9:50	148'	175	
9:55	149'	174	

Environmental Management and one to owner.

TIME	WATER LEVEL	GPM
10:00	150'	173
10:15	153'	160
10:30	157'	158
10:45	160'	156
11:00	164'	155
12:00 Noon	168'	154
1:00 PM	170'	154
2:00	171'	153
3:00	172'	152
4:00	173'	152
5:00	174'	151
6:00	175'	150
7:00	176'	149
8:00	177'	148
9:00	178'	148
10:00	179'	147
11:00	179'	147
12:00	180'	147

4-29-86

1:00 AM	180'	146
2:00	180'	146
3:00	180'	145
4:00	180'	145
5:00	180'	145
6:00	180'	145
7:00	180'	145
8:00	180'	145
9:00	180'	145

END OF PUMP TEST

RECOVERY

9:00	180'
9:05	115'
9:10	100'
9:15	87'
9:20	84'
9:25	81'
9:30	79'
9:35	75'
9:40	72'
9:45	70'
9:50	68'
9:55	66'
10:00	64'
10:15	61'
10:30	58'
10:45	56'
11:00	55'

END OF RECOVERY



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT  
DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. BOX 27687 - Raleigh, N. C. 27611

PUMPING TEST RECORD

Test Conducted by: Air Drilling Co. Well Construction Permit No. \_\_\_\_\_

1. WELL LOCATION: Nearest Town: Statesville County: Iredell  
Miller Fram Road Quadrangel No. \_\_\_\_\_  
 (Road No., Community, or Subdivision and Lot No.)
2. OWNER: Iredell Water Corp. P.O. Box 711, Statesville, N.C. 28677  
 Name Address
3. USE OF WELL: ( ) Domestic (X) Public ( ) Industrial ( ) Irrigation ( ) Other
4. WELL DEPTH: 425' ft. Casing Diameter 8 in. Casing type: Galv
5. DRILLING CONTRACTOR: Air Drilling Co., Statesville, N.C. Was casing grouted? Yes
6. STATIC WATER LEVEL: 15 ft. above top of casing.  
 Date Measured: 4-11-94 & 4-12-94 Casing is 1 1/2 ft. above land surface.
7. WELL YIELD: 205 gpm. Specific Capacity: \_\_\_\_\_ gpm/ft.-dd.
8. PUMPING WATER LEVEL: 195 ft. after 24 hours at 205 gpm.
9. CHLORINATION: Type HTH Amount \_\_\_\_\_
10. TIME AND DATE: PUMP STARTED: 12:00 Noon 4-11-94 PUMP STOPPED: 12:00 Noon 4-12-94
11. WATER LEVEL MEASURING DEVICE: Water level indicator FLOW MEASURING DEVICE: Meter
12. TEST PUMP: Type Sub. Make Pleuger Horse Power 20  
 Capacity \_\_\_\_\_ gpm at \_\_\_\_\_ T D H. Intake Depth \_\_\_\_\_ ft.

Time	Water Level	Pumping Rate GPM	Remarks
4-11-94			
12:00 Noon	15'	260	Meter Start: 01958460
12:05	65'	260	Meter stop: 02271490
12:10	71'	255	20 H.P. Pleuger 460 Volts Sub.
12:15	76'	250	Set 210'
12:20	80'	250	
12:25	82'	250	
12:30	85'	250	
12:35	88'	250	
12:40	90'	250	
12:45	91'	250	
12:50	92'	250	
12:55	95'	250	

TIME	WATER LEVEL	GPM
4-11-94		
1:00	96'	250
1:15	100'	250
1:30	105'	250
1:45	108'	250
2:00	109'	250
3:00	129'	250
4:00	150'	240
5:00	162'	230
6:00	171'	225
7:00	175'	220
8:00	180'	215
9:00	184'	210
10:00	186'	210
11:00	188'	210
12:00(Midnight)	190'	210

4-12-94		
1:00 AM	191'	210
2:00	192'	210
3:00	193'	205
4:00	194'	205
5:00	194'	205
6:00	195'	205
7:00	195'	205
8:00	195'	205
9:00	195'	205
10:00	195'	205
11:00	195'	205
12:00(Noon)	195'	205

END OF PUMP TEST

RECOVERY

12:00(Noon)	195'
12:05 PM	85'
12:10	72'
12:15	70'
12:20	69'
12:25	68'
12:30	67'
12:35	66'
12:40	65'
12:45	64'
12:50	63'
12:55	62'
1:00	61'
1:15	59'
1:30	57'
1:45	56'
2:00	55'

END OF RECOVERY TEST

W #27

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT  
DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. BOX 27687 - Raleigh, N. C. 27611

PUMPING TEST  
RECORD

Test Conducted by: \_\_\_\_\_ Well Construction Permit No. \_\_\_\_\_

1. WELL LOCATION: Nearest Town: Harmony County: Iredell  
 \_\_\_\_\_  
 (Road No., Community, or Subdivision and Lot No.)
2. OWNER: Iredell Water Corp. P.O. Box 711, Statesville, N.C. 28687  
 Name Address
3. USE OF WELL: ( ) Domestic ( ) Public ( ) Industrial ( ) Irrigation (x) Water System  
 Other
4. WELL DEPTH: 565 ft. Casing Diameter 8 in. Casing type: Galv.
5. DRILLING CONTRACTOR: Air Drilling Co. Was casing grouted? yes
6. STATIC WATER LEVEL: 10 ft. <sup>above</sup>/<sub>below</sub> top of casing.  
 Date Measured: 5-27-96 Casing is 1 1/2 ft. above land surface.
7. WELL YIELD: 145 gpm. Specific Capacity: \_\_\_\_\_ gpm/ft.-dd.
8. PUMPING WATER LEVEL: 504' ft. after 24 hours at 145' gpm.
9. CHLORINATION: Type HTH Amount \_\_\_\_\_
10. TIME AND DATE: PUMP STARTED: 5-27-96 10:30 AM PUMP STOPPED: 5-28-96 10:30 AM
11. WATER LEVEL MEASURING DEVICE: Water level indicator FLOW MEASURING DEVICE: Meter
12. TEST PUMP: Type Sub Make Grundfos Horse Power 30  
 Capacity \_\_\_\_\_ gpm at \_\_\_\_\_ T D H. Intake Depth \_\_\_\_\_ ft.

Time	Water Level	Pumping Rate GPM	Remarks
5-27-96 10:30	10'	215	Meter start: 3265240
10:35	135'	210	Meter stop: 4375165
10:40	250'	200	30 H.P. Grundfos
10:45	300'	195	Set 504'
10:50	335'	185	
10:55	365'	180	
11:00	385'	180	
11:05	400'	175	
11:10	410'	175	
11:15	425'	170	
11:20	440'	170	
11:25	445'	165	

1. Measurement and one to owner.

W#27

	TIME	WATER LEVEL	GPM
	11:30 AM	450'	165
	11:45	475'	160
	12:00 Noon	495'	155
	1:00 PM	504'	150
	2:00	504'	150
	3:00	504'	150
	4:00	504'	155
	5:00	504'	155
	6:00	504'	150
	7:00	504'	150
	8:00	504'	150
	9:00	504'	150
	10:00	504'	150
	11:00	504'	150
	12:00 Midnight	504'	150
5-28-96	1:00 AM	504'	145
	2:00	504'	145
	3:00	504'	145
	4:00	504'	145
	5:00	504'	145
	6:00	504'	145
	7:00	504'	145
	8:00	504'	145
	9:00	504'	145
	10:00	504'	145
	10:30	504'	145

END OF PUMP TEST

RECOVERY

10:30	504'
10:35	470'
10:40	450'
10:45	425'
10:50	400'
10:55	365'
11:00	345'
11:05	325'
11:10	305'
11:15	290'
11:20	275'
11:25	260'
11:30	150'
11:45	225'
12:00 Noon	200'
12:15	175'
12:30	155'

END OF RECOVERY

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT  
 DIVISION OF ENVIRONMENTAL MANAGEMENT

*well # 28*

P. O. BOX 27687 - Raleigh, N. C. 27611

PUMPING TEST  
 RECORD

Test Conducted by: \_\_\_\_\_ Well Construction Permit No. \_\_\_\_\_

1. WELL LOCATION: Nearest Town: Statesville County: Iredell  
 \_\_\_\_\_  
 (Road No., Community, or Subdivision and Lot No.) \_\_\_\_\_  
 Quadrangel No. \_\_\_\_\_
2. OWNER: Iredell Water Corp. P.O. Box 711, Statesville, N.C. 28687  
 Name Address
3. USE OF WELL: ( ) Domestic (X) Public ( ) Industrial ( ) Irrigation ( ) \_\_\_\_\_  
 Other \_\_\_\_\_
4. WELL DEPTH: 305 ft. Casing Diameter 8 in. Casing type: Galv.
5. DRILLING CONTRACTOR: Air Drilling Co. Was casing grouted? Yes
6. STATIC WATER LEVEL: 20 ft. below top of casing.  
 Date Measured: 10-13-97 & 10-14-97 Casing is 1 1/2 ft. above land surface.
7. WELL YIELD: 330 gpm. Specific Capacity: \_\_\_\_\_ gpm/ft.-dd.
8. PUMPING WATER LEVEL: 121 ft. after 12 hours at 330 gpm.
9. CHLORINATION: Type HTH Amount \_\_\_\_\_
10. TIME AND DATE: PUMP STARTED: 1:00 PM 10-13-97 PUMP STOPPED: 1:00 AM 10-14-97
11. WATER LEVEL MEASURING DEVICE: Water Level Indicator FLOW MEASURING DEVICE: Meter
12. TEST PUMP: Type Sub. Make Grundfos Horse Power 40  
 Capacity \_\_\_\_\_ gpm at \_\_\_\_\_ T D H. Intake Depth \_\_\_\_\_ ft.

Time	Water Level	Pumping Rate GPM	Remarks
10-13-97 1:00 PM	20'	365	Meter Start: 4057710
1:05	30'	360	Meter Stop: 4267040
1:10	36'	360	40 H.P. Grundfos
1:15	41'	360	Set 168'
1:20	45'	360	
1:25	47'	360	
1:30	51'	360	
1:35	54'	360	
1:40	56'	355	
1:45	59'	355	
1:50	61'	355	
1:55	62'	355	

*WWSJ*

	TIME	Water LEVEL	GPM
10-13-97	2:00	65'	350
	2:15	70'	350
	2:30	75'	350
	2:45	78'	350
	3:00	81'	350
	4:00	85'	350
	5:00	89'	345
	6:00	91'	340
	7:00	96'	340
	8:00	102'	340
	9:00	108'	340
	10:00	114'	335
	11:00	120'	330
	12:00(Midnight)	121'	330
	1:00AM	121'	330

TEST STOPPED

RECOVERY TEST

1:00AM	121'
1:05	90'
1:10	88'
1:15	86'
1:20	85'
1:25	84'
1:30	83'
1:35	82'
1:40	81'
1:45	80'
1:50	79'
1:55	78'
2:00	77'
2:15	74'
2:30	71'
2:45	66'
3:00	61'

END OF RECOVERY TEST

#34

DEPARTMENT OF ENVIRONMENTAL RESOURCES  
DNR-GROUNDWATER SECTION  
WATER QUALITY DIVISION  
1636 MAIL SERVICE CENTER  
RALEIGH NC 27699-1636

DEPARTMENT OF ENVIRONMENTAL RESOURCES

PUMPING TEST RECORD

Test Conducted by: Alem Johnson Well Construction Permit No. \_\_\_\_\_

1. WELL LOCATION: Nearest Town: Statesville County: Iredell  
296 Turnersburg Highway Quadrangel No. \_\_\_\_\_  
(Road No., Community, or Subdivision and Lot No.)
2. OWNER: Iredell Water Corp., P.O. Box 711, Statesville, NC 28687  
Name Address
3. USE OF WELL: ( ) Domestic (X) Public ( ) Industrial ( ) Irrigation ( ) Other
4. WELL DEPTH: 825 ft. Casing Diameter 8 in. Casing type: Galv.
5. DRILLING CONTRACTOR: Air Drilling, Inc. Was casing grouted? Yes
6. STATIC WATER LEVEL: 23 ft. <sup>above</sup>/<sub>below</sub> top of casing.  
Date Measured: 12-05-06 Casing is 1 1/2 ft. above land surface.
7. WELL YIELD: 105 gpm. Specific Capacity: \_\_\_\_\_ gpm/ft.-dd.
8. PUMPING WATER LEVEL: 147 ft. after 24 hours at 105 gpm.
9. CHLORINATION: Type HTH Amount \_\_\_\_\_
10. TIME AND DATE: PUMP STARTED: 12/05/06 9:00 am PUMP STOPPED: 12/06/06 9:00am
11. WATER LEVEL MEASURING DEVICE Water Level Indic. FLOW MEASURING DEVICE: Meter
12. TEST PUMP: Type Sub Make Grundfos Horse Power 15  
Capacity \_\_\_\_\_ gpm at \_\_\_\_\_ T D H. Intake Depth \_\_\_\_\_ ft.

Time	Water Level	Pumping Rate/GPM	Remarks
12/05/06			
9:00 am	23	240	Meter Start: 3568785
9:05	147	170	Meter Stop: 3718350
9:10	147	145	Pump Set: 147'
9:15	147	135	15 HP Grundfos
9:20	147	130	
9:25	147	125	
9:30	147	120	
9:35	147	117	
9:40	147	115	
9:45	147	115	
9:50	147	115	
9:55	147	115	
10:00	147	113	

+

DEPARTMENT OF  
 DENR-GROUNDWATER SECTION  
 WATER QUALITY DIVISION  
 1636 MAIL SERVICE CENTER  
 RALEIGH NC 27699-1636

WATER RESOURCES  
 DIVISION

35

PUMPING TEST  
 RECORD

Test Conducted by: Alem Johnson Well Construction Permit. No. \_\_\_\_\_

1. WELL LOCATION: Nearest Town: Statesville County: Iredell  
Bluegill (Road No., Community, or Subdivision and Lot No.) Quadrangel No. \_\_\_\_\_
2. OWNER: Iredell Water Corp., P.O. Box 711, Statesville, NC 28687  
 Name Address
3. USE OF WELL: ( ) Domestic (X) Public ( ) Industrial ( ) Irrigation ( ) Other
4. WELL DEPTH: 485 ft. Casing Diameter 8 in. Casing type: Galv.
5. DRILLING CONTRACTOR: Air Drilling Inc. Was casing grouted? Yes
6. STATIC WATER LEVEL: 30 ft. <sup>above</sup>/<sub>below</sub> top of casing.  
 Date Measured: 01-09-07 Casing is 1 1/2 ft. above land surface.
7. WELL YIELD: 320 gpm. Specific Capacity: \_\_\_\_\_ gpm/ft.-dd.
8. PUMPING WATER LEVEL: 185 ft. after 24 hours at 320 gpm.
9. CHLORINATION: Type HTH Amount \_\_\_\_\_
10. TIME AND DATE: PUMP STARTED: 1/9/07 9:00 am PUMP STOPPED: 1/10/07 9:00 am
11. WATER LEVEL MEASURING DEVICE: Water Level Ind. FLOW MEASURING DEVICE: Meter
12. TEST PUMP: Type Sub Make Grundfos Horse Power 40 HP  
 Capacity \_\_\_\_\_ gpm at \_\_\_\_\_ T D H. Intake Depth \_\_\_\_\_ ft.

Time	Water Level	Pumping Rate/GPM	Remarks
1/9/07			
9:00 am	30	350	Meter Start: 3718350
9:05	70	350	Meter Stop: 4181000
9:10	75	350	Pump Set: 315'
9:15	85	350	40 HP Grundfos
9:20	86	340	
9:25	89	340	
9:30	92	340	
9:35	93	340	
9:40	96	340	
9:45	97	340	
9:50	98	340	
9:55	99	340	
10:00	101	340	

GW-40 Revised 1/90

Submit one copy to the Groundwater Section and one to the owner.



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DEPARTMENT  
[ DENR-GROUNDWATER SECTION  
WATER QUALITY DIVISION  
1636 MAIL SERVICE CENTER  
RALEIGH NC 27699-1636

WATER RESOURCES  
DIVISION

PUMPING TEST  
RECORD

Test Conducted by: Ken Johnson Well Construction Permit. No. \_\_\_\_\_

- WELL LOCATION: Nearest Town: Statesville County: Iredell  
Jennings Road (Road No., Community, or Subdivision and Lot No.) Quadrangel No. \_\_\_\_\_
- OWNER: Iredell Water Corp., P.O. Box 711, Statesville, NC 28687  
Name Address
- USE OF WELL: ( ) Domestic (X) Public ( ) Industrial ( ) Irrigation ( ) Other
- WELL DEPTH: 985 ft. Casing Diameter 8 in. Casing type: Galv.
- DRILLING CONTRACTOR: Air Drilling, Inc. Was casing grouted? Yes
- STATIC WATER LEVEL: 99 ft. <sup>above</sup>/<sub>below</sub> top of casing.  
Date Measured: 01-30-07 Casing is 1 1/2 ft. above land surface.
- WELL YIELD: 40 gpm. Specific Capacity: \_\_\_\_\_ gpm/ft.-dd.
- PUMPING WATER LEVEL: 609 ft. after 24 hours at 40 gpm.
- CHLORINATION: Type HTH Amount \_\_\_\_\_
- TIME AND DATE: PUMP STARTED: 1/30/07 9:00 am PUMP STOPPED: 1/31/07 9:00 am
- WATER LEVEL MEASURING DEVICE: Water Level Ind. FLOW MEASURING DEVICE: Meter
- TEST PUMP: Type Sub Make Grundfos Horse Power 20  
Capacity \_\_\_\_\_ gpm at \_\_\_\_\_ T D H. Intake Depth \_\_\_\_\_ ft.

Time	Water Level	Pumping Rate/GPM	Remarks
1/30/07			
9:00 am	99	125	Meter Start: 02666780
9:05	225	115	Meter Stop: 02734400
9:10	263	115	Pump Set: 609'
9:15	311	110	20 HP Grundfos
9:20	345	105	
9:25	374	105	
9:30	408	100	
9:35	429	100	
9:40	456	100	
9:45	476	95	
9:50	494	95	
9:55	510	95	
10:00	518	93	

AUG-13-2009 THU 11:56 AM

GEX

FAX No. 7048720248

P.002

08/12/2009 15:58 7048723057  
08/12/2009 07:31 1040000112

GVG&KSI

#0232 P.002 /003

37

NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT, HEALTH, & NATURAL RESOURCES  
DIVISION OF ENVIRONMENTAL MANAGEMENT  
GROUNDWATER SECTION  
P.O. BOX 27687 - RALEIGH, N.C. 27611  
(919)733-3221

PUMPING TEST RECORD

Test Conducted by: Ken Johnson Well Construction Permit. No. \_\_\_\_\_

1. WELL LOCATION: Nearest Town: Statesville County: Fredell  
2299 N. Chipley Ford Rd (Road No., Community, or Subdivision and Lot No.)  
Quadrangle No. \_\_\_\_\_
2. OWNER: Fredell Water Corp. 571 Jennings Rd  
Name Address
3. USE OF WELL: ( ) Domestic (  ) Public ( ) Industrial ( ) Irrigation ( ) Other
4. WELL DEPTH: 645 ft. Casing Diameter 8 in. Casing type: Galv.
5. DRILLING CONTRACTOR: Air Drilling Inc Was casing grouted? yes
6. STATIC WATER LEVEL: 27 ft. <sup>above</sup>/<sub>below</sub> top of casing.  
Date Measured: 2/25-09 Casing is 2 ft. above land surface.
7. WELL YIELD: 135 gpm. Specific Capacity: \_\_\_\_\_ gpm/ft.-dd.
8. PUMPING WATER LEVEL: 546 ft. after 24 hours at 135 gpm.
9. CHLORINATION: Type HTH Amount 5 cups
10. TIME AND DATE: PUMP STARTED: 9:30 AM 2/25 PUMP STOPPED: 9:30 AM 2/26
11. WATER LEVEL MEASURING DEVICE: Solnist FLOW MEASURING DEVICE: 3" meter
12. TEST PUMP: Type Submersible Make Grundfos Horse Power 40  
Capacity 135 gpm at 767 T D H. Intake Depth 546 ft.

Time	Water Level	Pumping Rate	Remarks
9:30	27	310	
9:35	110	305	
9:40	165	300	
9:45	207	295	
9:50	238	285	
9:55	275	270	
10:00	285	265	
10:05	305	260	
10:10	327	255	
10:20	342	250	
10:30	359	245	
10:45	410	235	
11:00	430	225	

GW-40 Revised 1/90

Submit one copy to the Groundwater Section and one to the owner

WATER TEST-IREDELL WATER CO

BRANCHWOOD RD.  
WELL # ~~24~~ 38

TIME	WATER LEVEL	GPM	TIME	WATER LEVEL	GPM
11:00	24	460	11:00	140	435
11:05	48	455	12:00	142	435
11:10	57	455	1:00	143	435
11:15	58	455	2:00	144	435
11:20	60	455	3:00	145	435
11:25	63	455	4:00	146	435
11:30	65	455	5:00	146	435
11:35	68	455	6:00	146	435
11:40	70	455	7:00	147	435
11:45	72	450	8:00	148	435
11:50	74	450	9:00	148	435
11:55	75	450	10:00	148	435
12:00	77	450	11:00	148	435
12:15	82	450	11:05	127	
12:30	86	450	11:10	121	
12:45	90	450	11:15	118	
1:00	93	450	11:20	117	
2:00	105	445	11:25	116	
3:00	113	445	11:30	115	
4:00	120	440	11:35	114	
5:00	125	435	11:40	114	
6:00	128	435	11:45	114	
7:00	132	435	11:50	113	
8:00	134	435	11:55	113	
9:00	136	435	12:00	113	
10:00	138	435	12:15	112	
			12:30	111	
			12:45	110	
			1:00	109	

9/8/2010 SET 399'  
9/9/2010 60 HP

METER START 4732540  
METER FINISH 5350770

Charles A. Johnson Jr.

IREDELL WATER  
WELL # 39

TIME	G.P.M.	WATER LEVEL		TIME	G.P.M.	WATER LEVEL
9:40	430	100		9:00	411	214
9:45	430	119		10:00	411	216
9:50	425	147		11:00	411	218
9:55	420	156		12:00	409	220
10:00	420	160		1:00	408	222
10:05	420	163		2:00	407	223
10:10	420	165		3:00	406	224
10:15	420	166		4:00	405	226
10:20	420	167		5:00	404	227
10:25	420	169		6:00	404	228
10:30	420	169		7:00	403	230
10:35	420	170		8:00	404	230
10:40	420	171		9:00	404	230
10:55	420	174		10:00	404	230
11:10	420	175				
11:25	420	177				
11:40	420	178				
12:00	420	181			RECOVERY	
1:00	420	186		TIME		SWL
2:00	420	191		10:00		230
3:00	420	195		10:05		201
4:00	418	199		10:10		174
5:00	416	203		10:15		165
6:00	415	206		10:20		162
7:00	414	209		10:25		160
8:00	413	211		10:30		159
				10:35		158
				10:40		157
				10:45		156
				10:50		156
				10:55		155
				11:00		155
				11:15		152
				11:30		150
				11:45		148
				12:00		146
Pump	300-S-500-13					
	50HP					
Pump set	357'					
8/20/2014						
8/21/2014						
METER START	5793600					
METER STOP	6382700					

*Nell Padue*

Statesville Record & Landmark

Advertising Affidavit

Account Number

3168261

PO Box 968  
Hickory, NC 28603

Date

June 29, 2016

IREDELL WATER CORPORATION  
PO BOX 711  
STATESVILLE, NC 28687

Date	Category	Description	Ad Number	Ad Size
07/05/2016	Legal Notices	PUBLIC NOTIFICATION Iredell Water Corporation, with assist	0000231920	1 x 44 L

**PUBLIC NOTIFICATION**

Iredell Water Corporation, with assistance from the North Carolina Rural Water Association, is in the process of updating our existing Wellhead Protection Program. This is a voluntary program intended to assist us in protecting the system's water supply from contamination, and to identify vulnerable areas around our wells called "Wellhead Protection Areas". Another goal of this program is to make residents and businesses aware that chemicals and other pollutants spilled or dumped in the vicinity of the "Wellhead Protection Areas" can be drawn into the wells, possibly contaminating the system's drinking water supply.

Iredell Water Corporation's Board of Directors are asking for your help in developing this program. A draft copy of the Wellhead Protection Plan will be available for review and comment for a period of thirty days at Iredell Water Corporation located at 571 Jennings Rd. You are invited to review the program, and submit any comments or suggestions to us. All written public comments will be reviewed by the Wellhead Protection Committee, and any suggestions or comments that may be beneficial will be incorporated into the program.

If you have any questions or comments, please feel free to contact Mr. Danny Sloan, Assistant Manager, at (704) 876-0672 ext. 106.

**Publish: Wednesday, June 29th.**

Publisher of  
Statesville Record & Landmark  
Iredell County

Iredell

Before the undersigned, a Notary Public of Iredell County, North Carolina, duly commissioned, qualified, and authorized by law to administer oaths, in said County and State; that he/she is authorized to make this affidavit and sworn statement; that the notice or other legal advertisement, a copy of which is attached hereto, was published in the Statesville Record & Landmark on the following dates:

06/29/2016

and that the said newspaper in which such notice, or legal advertisement was published, was a newspaper meeting all the requirements and qualifications of Section 1-597 of the General Statutes of North Carolina.

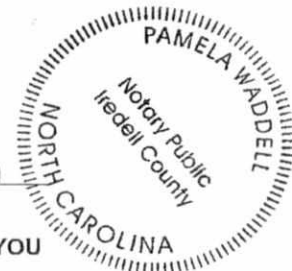
  
Assistant Bookkeeper

Newspaper reference: 0000231920

Sworn to and subscribed before me, this 29 day of June, 2016

Pamela Waddell  
Notary Public

My Commission expires: May 27, 2017



THIS IS NOT A BILL. PLEASE PAY FROM INVOICE. THANK YOU