

April 18, 2013

Mr. Ethan Caldwell, PE, LG  
NCDOT Roadside Environmental Unit  
4809 Beryl Road  
Raleigh, North Carolina 27606

**Subject: 2012 Receptor Survey Summary  
Former Lee Paving Asphalt Testing Site  
North Carolina Department of Transportation Priority Testing Site No. 6-48  
Pittsboro, North Carolina**

Dear Mr. Caldwell,

AECOM North Carolina, Inc. (AECOM) is pleased to present the North Carolina Department of Transportation (NCDOT) with the following summary letter documenting results and findings of a receptor survey for properties within a half-mile radius of the abovementioned site (Figure 1). The receptor survey was performed on April 30, 2012 and updated in November 2012. The survey included a windshield survey of the area to identify exposure pathways and potential receptors (i.e. surface water features and water supply wells), as well as an on-line search of public water supply records. The methods and results of the receptor survey are detailed throughout the remainder of this letter.

## **Water Supply Systems**

AECOM conducted a windshield water supply well survey to locate water supply wells within a one-half mile radius from the site boundary (Figure 1). During the survey, property usage, municipal water meter locations, and private wells (if present) were noted.

## **Public Water Systems**

According to the North Carolina Department of Environment and Natural Resources (NCDENR), Public Water Supply (PWS) Section, Source Water Assessment and Protection web page<sup>1</sup>, there are no designated adjacent, campground, community, non-transient non-community or transient non-community PWS systems within the one-half mile radius search area. There are also no approved wellhead protection areas in the vicinity of the site.

At the time of the survey, the area within one-half mile of the site was not served by a public water system. According to the Chatham County Geographic Information System website<sup>2</sup>, the area within one-half mile of the site is located just outside the existing extent of the Chatham County

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<sup>1</sup> <http://swap.deh.enr.state.nc.us/swap/>

<sup>2</sup> <http://www.chathamgis.com/mapguide/ChathamGISWeb/>

Public Works & Utilities water system (CCPW). As such, it is presumed that all residences within the vicinity of the site obtain potable water from wells.

### **Private Water Supply Wells**

AECOM documented visual evidence of private water supply wells (e.g., well houses, faux rock covers, etc.) during the reconnaissance survey. Properties with visual evidence of a well are highlighted in yellow on Figure 2 and summarized on Table 1. According to CCPW, (contacted on May 2, 2012) the properties with suspected private water supply wells do not have active water accounts.

### **Surface Water**

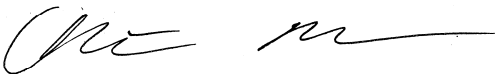
Surface water in the vicinity of the site is part of the Haw River Basin. Multiple surface water features exist within one-half mile of the site including an unnamed tributary to the Haw River, which flows south across the eastern portion of the site. Additional surface water features include an abandoned quarry immediately south of the site and several small, unnamed ponds.

### **Land Use and Places of Public Gathering**

AECOM identified one place of public gathering within one-half mile of the site, Haw River Baptist Church, located at the intersection of Silverberry Road and Mt. Gilead Church Road (Parcel Number 19 on Figure 2). Public gathering places were not identified within 500 feet of the site. Land use within one-half mile of the site is dominated by woodlands and low to medium density residential.

If you have any questions concerning this report, or if you would like additional information, please contact either of us at (919) 872-6600.

Yours sincerely,



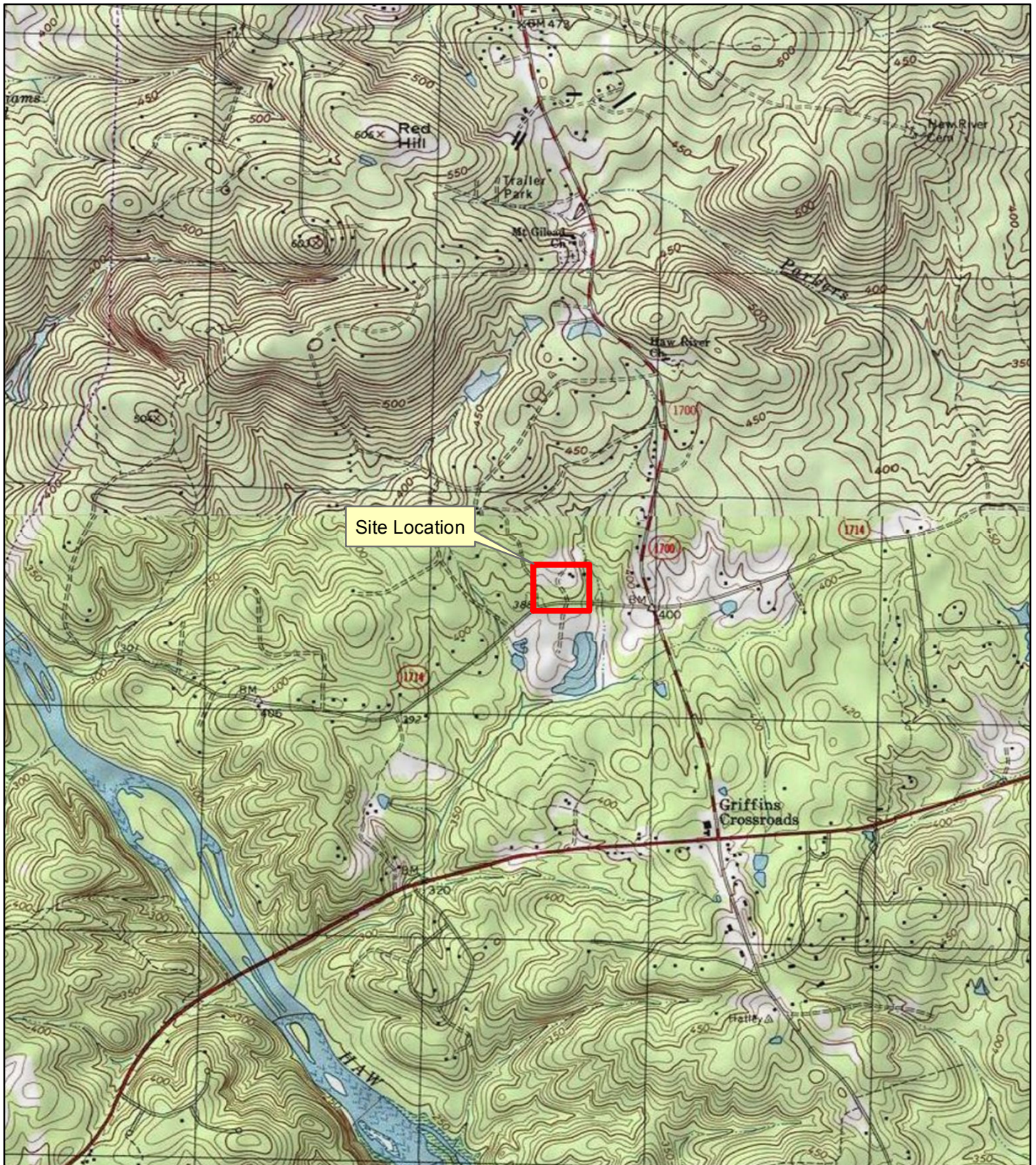
Christopher Mason  
Senior Staff Scientist



Michael T. Jordan, P.G.  
Senior Scientist

Attachments: Figure 1  
Figure 2  
Table 1

cc: File



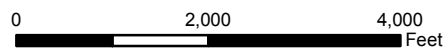
Map Location



### Site Location Map

Former Lee paving Asphalt Testing Site  
 NCDOT Priority Testing Site No. 6-48  
 Pittsboro, NC

Merry Oaks, NC USGS Topographic Quadrangle (1983)



April 2013

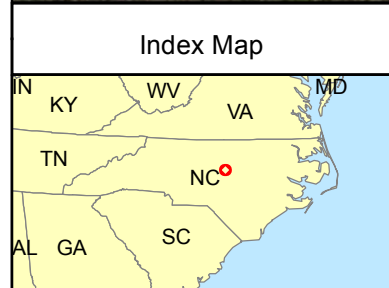
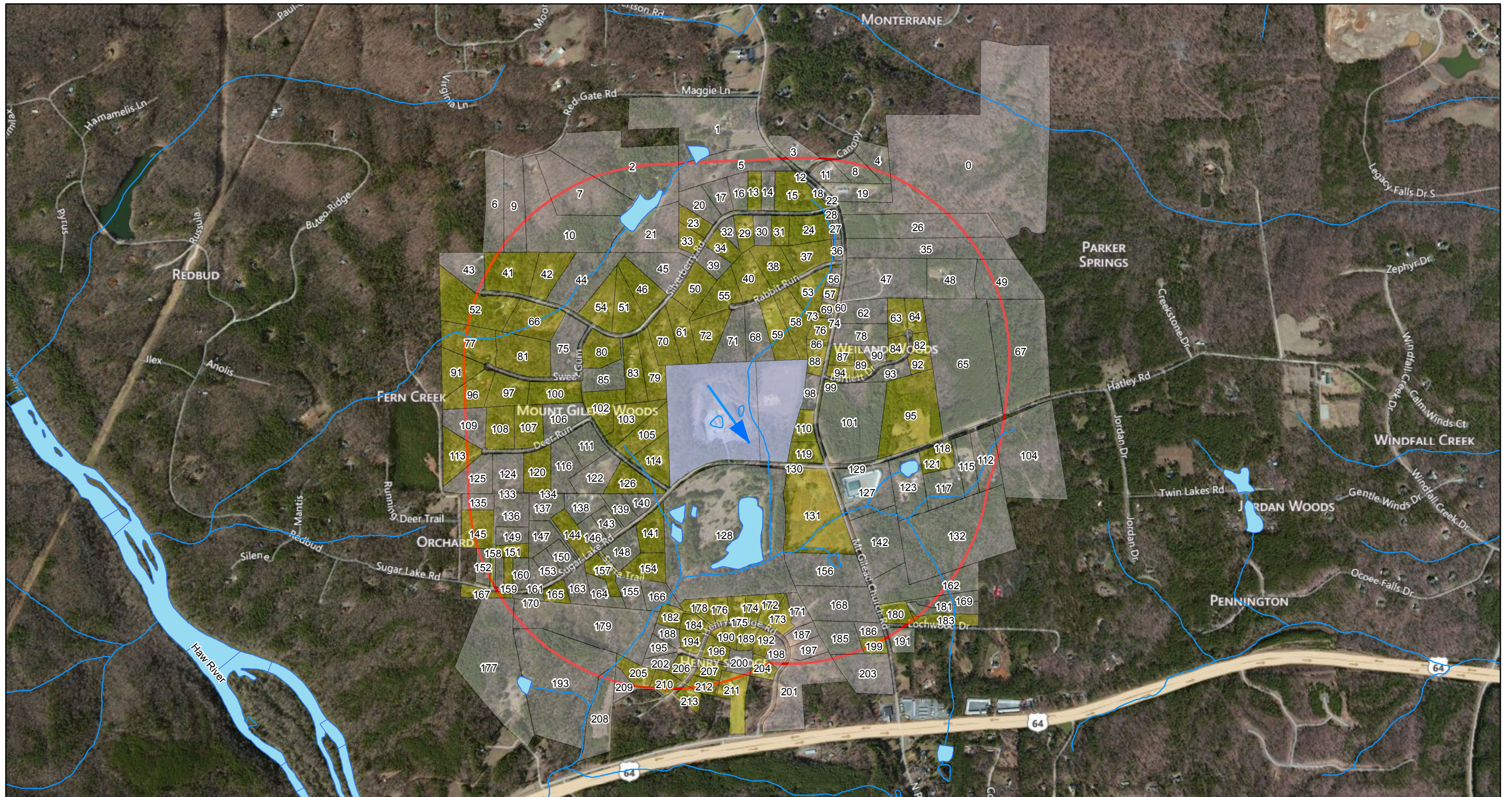


Figure 1

**AECOM**

AECOM North Carolina Inc.  
 8540 Colonnade Center Drive, Suite 306  
 Raleigh, NC 27615  
 Phone: (919) 872-6600  
 Fax: (919) 872-7996  
 Web: <http://www.aecom.com>

60249035



**Legend**

- Parcel
- Parcel with Visually Identified Well
- 0.5 Mile Radius from Site
- NC DOT Site
- Surface Water Feature
- Generalized Groundwater Flow Direction

**Properties within Half-Mile Radius**  
 Former Lee Paving Asphalt Testing Site  
 NCDOT Priority Testing Site No. 6-48  
 Pittsboro, North Carolina

N

0 0.125 0.25 0.5 0.75 1 Miles

April 2013

Figure 2

**AECOM**

AECOM  
 8540 Colonnade Center Drive, Suite 306  
 Raleigh, NC 27615  
 Phone: (919) 872-6600  
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Project # 60246616

**Table 1**  
**Water Supply Well Inventory**  
**Former Lee Paving Asphalt Testing Site**  
**NCDOT Priority Testing Site No. 6-48**  
**Pittsboro, NC**

Map ID	PIN	Well Owner and Address	Well Status	Municipal Connection	Available Well Details	Approximate Distance and Direction from Release
13	9773-30-2281	Hugh A. Williams Jr., 104 Granite Ridge Rd., Chapel Hill, NC 27516	Active	No	None	0.7 miles north
15	9773-30-7168	Robert R. and Marguerite B. Summey, 96 Silverberry Rd., Pittsboro, NC 27312	Active	No	None	0.7 miles north
23	9772-29-4796	Rhoda Wynn, 1908 S. Lake Shore, Chapel Hill, NC 27514	Active	No	None	0.5 miles north
24	9772-39-9656	Mark and Mara Frazier, 79 Silverberry Rd., Pittsboro, NC 27312	Active	No	None	0.5 miles north/northeast
29	9772-39-1654	Cynthia S. Heuer, 219 Silverberry Rd., Pittsboro, NC 27312	Active	No	None	0.5 miles north
34	9772-29-8462	Paulette E. and Dorman A. Smith, 351 Silverberry Rd., Pittsboro, NC 27312	Active	No	None	0.5 miles north
40	9772-39-2021	Robert M. Campbell and Jesi E. Codi, 208 Rabbit Run, Pittsboro, NC 27312	Active	No	None	0.4 miles north
41	9772-09-1192	Mark N. and Sherri Schlax, 972 Silverberry Lane, Pittsboro, NC 2732	Active	No	None	0.7 miles northwest
42	9772-09-5049	William M. McLamb, 1500 Wackena Rd., Cary, NC 27519	Active	No	None	0.7 miles northwest
46	9772-18-7993	Anna L. Leonard, 544 Silverberry Rd., Pittsboro, NC 27312	Active	No	None	0.4 miles northwest
51	9772-18-5778	Michelle Cosgrove and Laura Jacobs, 604 Silverberry Rd., Pittsboro, NC 27312	Active	No	None	0.4 miles northwest
52	9762-98-6682	Charles R. Runnion, 995 Silverberry Rd., Pittsboro, NC 27312	Active	No	None	0.7 miles northwest
53	9772-48-0806	Paul C. Dean and Virginia A. Bailey, 101 Rabbit Run, Pittsboro, NC 27312	Active	No	None	0.4 miles northeast
54	9772-18-3719	Terry and Linda K. Lindsey, 746 Silverberry Rd., Pittsboro, NC 27312	Active	No	None	0.4 miles northwest
55	9772-28-8709	Thomas A. and Helen Dean, 300 Rabbit Run, Pittsboro, NC 27312	Active	No	None	0.3 miles north
57	9772-48-2873	Linda C. Seymour and Regina S. Barnes, 1115 Mt Gilead Church Rd, Pittsboro, NC 27312	Active	No	None	0.4 miles northeast
58	9772-38-7498	Aliene W. Keck, 173 Rabbit Run, Pittsboro, NC 27312	Active	No	None	0.3 miles northeast
59	9772-38-6209	Cheryl K. Oxendine, 103 Rabbit Run, Pittsboro, NC 27312	Active	No	None	0.3 miles northeast
61	9772-28-3335	James T. and Judy H. Bober, 2020 Walden Glade Run, Apex, NC 27523	Active	No	None	0.3 miles north/northwest
64	9772-58-3583	Jennifer D. and Mark C. Mansfield, 254 Bartlett Dr, Pittsboro, NC 27312	Active	No	None	0.6 miles northeast
66	9772-08-3591	James W. and Wendy A. Markham, 506 Windcrest Dr, Apex, NC 27502	Active	No	None	0.6 miles northwest
69	9772-48-2633	Stanley V. and Thomas E. Burnette, 2948 Hamlet Chapel Rd, Pittsboro, NC 27312	Active	No	None	0.4 miles northeast
70	9772-28-0282	Sara J. Carden, 577 Silver Berry Rd, Pittsboro, NC 27312	Active	No	None	0.3 miles north/northwest
73	9772-48-1544	Majorie B. James, 419 Hardee St, Durham, NC 27703	Active	No	None	0.4 miles northeast
76	9772-48-1346	Dexter V. Perry, The Dexter V Perry Trust 111 Lydenbury Dr, Apex, NC 27502-9615	Active	No	None	0.3 miles northeast
77	9762-98-5198	Elisabeth Berl, 364 Sweet Gum Rd, Pittsboro, NC 27312	Active	No	None	0.7 miles northwest
81	9772-08-3011	David S. and Alanna K. Parke, 278 Sweet Gum Rd, Pittsboro, NC 27312	Active	No	None	0.6 miles northwest
82	9772-58-4157	Bonnie L. Bechard and Lawrence D. Kessler, 238 Bartlett Dr, Pittsboro, NC 27312	Active	No	None	0.5 miles northeast
84	9772-58-1143	Ann Diedrich, 233 Barlett Dr, Pittsboro, NC 27312	Active	No	None	0.5 miles northeast
87	9772-48-4023	Frank R. and Gayle C. Green, 65 Bartlett Dr, Pittsboro, NC 27312	Active	No	None	0.3 miles northeast
88	9772-47-0986	Dennis C. and Phyllis Campbell, 9978 Hwy 902, Siler City, NC 27344	Active	No	None	0.3 miles northeast
89	9772-47-6888	Raphael I. and Andrea L. Mohamed, 85 Bartlett Drive, Pittsboro, NC 27312-7517	Active	No	None	0.3 miles northeast
94	9772-47-3891	Gary S. and Teresa Smith, 49 Bartlett Lane, Pittsboro, NC 27312	Active	No	None	0.3 miles northeast
95	9772-57-3246	Rena H. Perry and Anne H. Oakley, 2592 Pete Roberson Rd, Pittsboro, NC 27312	Active	No	None	0.4 miles east
97	9762-97-9553	Jack D. Flanary Jr., 277 Sweet Gum Rd, Pittsboro, NC 27312	Active	No	None	0.6 miles west/northwest
100	9772-07-6594	Alan D. and Jane M. Louder, 175 Sweet Gum, Pittsboro, NC 27312-7978	Active	No	None	0.4 miles west/northwest
110	9772-36-9932	Mark M. Sanders, 771 Mt Gilead Ch Rd, Pittsboro, NC 27312	Active	No	None	0.2 miles east
118	9772-56-7853	Mary J. McKendry, 298 Hatley Rd, Pittsboro, NC 27312	Active	No	None	0.5 miles east
119	9772-36-9744	Timothy R. and Paula M. Mitchell, 681 Mt Gilead Ch Rd, Pittsboro, NC 27312-7418	Active	No	None	0.2 miles east/southeast
120	9772-06-4510	Carl F. Curtis, 421 Deer Run Rd, Pittsboro, NC 27312	Active	No	None	0.5 miles west
121	9772-56-6678	Marcus A. and Nellie L. Day, 248 Hatley Rd, Pittsboro, NC 27312	Active	No	None	0.5 miles east
126	9772-16-7307	Carlton J. Zdanski and Mary B. Zdanski-Owen, 183 Beartree Creek, Chapel Hill, NC 27517	Active	No	None	0.2 miles west/southwest
131	9772-35-9838	Doris E. B. McNeill, 184 Beartree Creek, Chapel Hill, NC 27517	Not Active	No	Shallow, Hand dug	0.2 miles southeast

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**Pittsboro, NC**

Map ID	PIN	Well Owner and Address	Well Status	Municipal Connection	Available Well Details	Approximate Distance and Direction from Release
141	9772-15-9710	Theodore M. and Julia Taydus, 495 Sugar Lake Rd, Pittsboro, NC 27312	Active	No	None	0.3 miles southwest
144	9772-05-8790	Brian P. Moore, 650 Sugar Lake Rd, Pittsboro, NC 27312	Active	No	None	0.4 miles southwest
145	9762-95-6867	Gary M. and Marilyn C. Guido, 99 Country Rock Rd, Pittsboro, NC 27312	Active	No	None	0.7 miles west/southwest
151	9772-05-1407	Mark W. and Holly G. Duncan, 82 Country Rock Rd, Pittsboro, NC 27312	Active	No	None	0.6 miles west/southwest
154	9772-15-9205	John A. and Annette M. R. Judd, Po Box 139, MoNCure, NC 27559	Active	No	None	0.3 miles southwest
157	9772-15-2280	Rita Hoina, 50 Sierra Trail, Pittsboro, NC 27312	Active	No	None	0.4 miles southwest
159	9762-94-7859	Michael F. and Nancy P. Eland, 918 Sugar Lake Rd, Pittsboro, NC 27312	Active	No	None	0.7 miles southwest
165	9772-04-6888	Harold D. Brown, 797 Sugar Lake Rd, Pittsboro, NC 27312	Active	No	None	0.6 miles southwest
167	9762-94-7859	Todd J. and Suzanne M. Yanders, 70 Roach RaNCh Rd, Pittsboro, NC 27312	Active	No	None	0.7 miles southwest
173	9772-34-6539	Ricky Spoon Builders, Inc., 2475 Redbud, Pittsboro, NC 27312-8453	Active	No	None	0.5 miles south
174	9772-34-2772	Ricky Spoon Builders, Inc., 2475 Redbud, Pittsboro, NC 27312-8453	Active	No	None	0.5 miles south
175	9772-34-0740	Ricky Spoon Builders, Inc., 2475 Redbud, Pittsboro, NC 27312-8453	Active	No	None	0.5 miles south
176	9772-24-8629	Scott O. and Susan B. Spinka, 271 Henry'S Ridge Rd, Pittsboro, NC 27312	Active	No	None	0.5 miles south
180	9772-54-1634	Brian M. and Erin J. King, 955 Green Level Rd, Apex, NC 27523	Active	No	None	0.6 miles southeast
183	9772-54-7566	David C. and Carolyn B. Lewis, 85 Byrd Ln, Pittsboro, NC 27312	Active	No	None	0.7 miles southeast
184	9772-24-4580	Ricky Spoon Builders, Inc., 2475 Redbud, Pittsboro, NC 27312-8453	Active	No	None	0.5 miles south/southwest
189	9772-34-1373	Colleen and Randall O. Wood, 225 Henrys Ridge Rd, Pittsboro, NC 27312	Active	No	None	0.5 miles south
194	9772-24-4248	Ricky Spoon Builders, Inc., 2475 Redbud, Pittsboro, NC 27312-8453	Active	No	None	0.5 miles south/southwest
196	9772-24-7186	Robert A. and Susan A. Gardiner, 361 Henry'S Ridge Rd, Pittsboro, NC 27312	Active	No	None	0.5 miles south
199	9772-44-8242	Robert P. and Jo Ann B. Norwood, 199 Mt Gilead Church Rd, Pittsboro, NC 27312	Active	No	None	0.7 miles southeast
204	9772-33-3993	Ricky Spoon Builders, Inc., 2475 Redbud, Pittsboro, NC 27312-8453	Active	No	None	0.6 miles south
206	9772-23-3924	R A Harbin, Inc., 6504 Whitted Rd, Fuquay Varina, NC 27562	Active	No	None	0.6 miles south
207	9772-23-7910	Ricky Spoon Builders, Inc., 2475 Redbud, Pittsboro, NC 27312-8453	Active	No	None	0.6 miles south
210	9772-23-1723	Ricky Spoon Builders, Inc., 2475 Redbud, Pittsboro, NC 27312-8453	Active	No	None	0.7 miles south
211	9772-23-9792	Billy and Sylvia Butler, 475 Henry Webster Rd, Pittsboro, NC 27312	Active	No	None	0.7 miles south
212	9772-23-6609	R A Harbin, Inc., 6504 Whitted Rd, Fuquay, NC 27526-8472	Active	No	None	0.7 miles south
213	9772-23-4533	Jeffrey B. and Carrie J. F. Hawkins, 449 Henrys Ridge Rd, Pittsboro, NC 27312	Active	No	None	0.7 miles south

**Notes:**  
Owner information based on data from the Chatham County GIS (2012)