

**Site Summary Report  
DUPONT DUMP  
TASK ORDER NO. 63  
ID NUMBER: NONCD0000666  
Brunswick County, North Carolina**

**Senate Bill 1492  
State of North Carolina  
State Contract N11001S  
MM&A Project Number NCUL163**



*Prepared For:*

**North Carolina Department of Environment and Natural Resources  
Division of Waste Management - Superfund Section  
Inactive Hazardous Sites Branch  
Pre-Regulatory Landfill Unit  
401 Oberlin Road, Suite 150  
Raleigh, NC 27605**

*Prepared By:*

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**June 7, 2011**

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April 24, 2012

Mr. Bruce E. Lefler, Jr.  
*Hydrogeologist*  
**NCDENR-Inactive Hazardous Sites Branch**  
**Superfund Section**  
1646 Mail Service Center  
Raleigh, North Carolina 27699

**Re: Task Order No. 63**  
**Dupont Dump – Brunswick County**  
**State Contract: N11001S**  
**ID #NONCD0000666**  
**MM&A Project No.: NCUL163**

Dear Mr. Lefler:

Enclosed is one CD of the final report for the above referenced Site in Brunswick County containing digital copies in PDF-A formats. Please let me know if you need anything further.

Sincerely,

**MARSHALL MILLER & ASSOCIATES, INC.**

A handwritten signature in blue ink that reads "LM George".

**Lawrence M. George, P.G.**  
*Branch Manager*

cc: File NCDENR/NCUL163

Enclosures

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  - Brunswick County Soil and Water Conservation District, 1956
  - Brunswick County Soil and Water Conservation District, 1966
  - Brunswick County Soil and Water Conservation District, 1972
  - Brunswick County Soil and Water Conservation District, 1982
  - United States Geological Survey, 1998
  - United States Department of Agriculture, Aerial Photography Field Office, 2005
  - United States Department of Agriculture, Aerial Photography Field Office, 2010

**APPENDIX F**

- Certification*



**1.0 SITE INFORMATION**

**ID NUMBER:** NONCD0000666

**SITE NAME:** Dupont Dump

**LOCATION:** North of State Road 1430, Leland, NC

**COUNTY:** Brunswick

**SITE SIZE:** 0.77 acres

**PROPERTY SIZE:** 6.43 acres

**DATE OPENED:** 1971

**DATE CLOSED:** 1973

**PROPERTY OWNERS:**

<b>PARCEL NO. *</b>	<b>OWNER</b>	<b>CONTACT INFO<sup>#</sup></b>	<b>TAX PIN NO.</b>
1	E.G. Dale	P.O. Box 157 Navassa, NC 28451	01700036
2	Town of Navassa	334 Main Street Navassa, NC 28451	0170003611
3	Cemetery	Not Provided in Tax Records	01700035
4 <sup>@</sup>	Cemetery Frences E. Harrison and Katrena Robbins	9199 Kendall Chapel Road Winnabow, NC 28479	0170003401

\* See Figure 2 for location of specific parcel

# Street address for these parcels is not available from Brunswick County Register of Deeds or Tax Department.

@ This parcel, located adjacent to parcel 3, does not contain the site, but is also listed as a cemetery. It is not known if this parcel is related to and has the same owner as parcel 3.

**COORDINATES (AT POINT OF ENTRANCE TO SITE):**

**STATE PLANE COORDINATES (SPC); NAD83, METERS**

X: 696863.568; Y: 60842.721

**DECIMAL DEGREES (DD); WGS 84**

Lat.: N 34.29470°; Long.: W 78.05216°



## 2.0 AREAS OF NOTE

The following areas of note were observed during the site inspection:

- The initial site inspection indicated that the site extended beyond the parcel owned by the Town of Navassa and onto the parcel owned by Mr. Dale. The subsequent site inspection confirmed that the site included the parcels owned by the Town of Navassa and Mr. Dale, and the parcel containing the cemetery (Robinson Cemetery).
- Occupied residential properties are present within 110 feet of the site.
- Surface debris was noted throughout the site. The debris observed included yarn, concrete and other demolition debris, glass, empty drums and oil containers, and fabric. Concrete pipe has also been stored on the site.
- A swampy area associated with Indian Creek is located immediately north of the site.
- Thirteen water supply wells were located within 1,000 feet of the site. Eleven of these residences are connected to the public water supply.

## 3.0 SITE LOCATION RESEARCH SUMMARY

Marshall Miller & Associates, Inc. (MM&A) has completed an assessment of the pre-regulatory landfill site listed as the Dupont Dump located outside the Town of Navassa, Brunswick County, North Carolina. The assessment included historical research and a site inspection to confirm the site location, to develop an understanding of the operational and development history, and to evaluate the current site and vicinity conditions.

### 3.1 SITE SUMMARY

#### 3.1.1 Site Ownership and Dates of Operation

Initially, the site was thought to be located on the parcels numbered 2 and 3 on the table provided in **Section 1.0**. MM&A obtained verbal permission from the Town of Navassa to conduct a site inspection. During this inspection, it was determined that the parcel to the east (Parcel Number 1) owned by Mr. E.G. Dale, was the main disposal location, but disposal may also have occurred on the originally targeted parcels. MM&A then obtained permission from Mr. Dale to access his parcel and conducted another site inspection.

According to records available from the Brunswick County Register of Deeds, the site is located on three parcels that were once part of a larger parcel known as the Hardy Hatcher Estate Lands, which was conveyed to Mattie Purnell by Brunswick County on August 6,

1951 (Deed Book 105, Page Number 114). This parcel included land on both sides of Cedar Hill Road (then known as Mount Misery Road). At some point, the property was obtained by Mr. WW Sigman as indicated in a survey plat dated March 10, 1966 (Map Book 10, Page 135). This plat also shows the cemetery as part of the parcel. The deed conveying the parcel to Mr. Sigman could not be located.

On September 28, 1971, W.W. and Myrtle Sigman sold the portion of the parcel located north of Cedar Hill Road to Mr. E. G. and Eleanor Dale (Deed Book 262, Page Number 490), which included the parcels identified as Parcels 1, 2, and 3 in the table in **Section 1.0**. On July 27, 2005, Mr. Dale conveyed a portion of the parcel to the Town of Navassa for use as an easement to access the cemetery (Deed Book 2201, Page Number 385). At some point, the cemetery was subdivided as a separate parcel and was assigned a new parcel number. There is not an owner listed in the Brunswick County tax records for the cemetery, which is identified as Robinson Cemetery in the attached figures, and no deed records could be found. According to Brunswick County GIS department, owner information on cemeteries is not available since they are not taxed.

The parcel just west of the Robinson Cemetery (Parcel Number 4) is also identified as “cemetery” on the Brunswick County GIS website. The parcel appears to be owned by Frances Harrison and Katrena Robbins who purchased the property from Mr. James Asa Ballard on June 5, 1997 (Deed Book 1157, Page Number 305; Map Book 18, Page 378). However, the survey plat does not include the cemetery parcel identified as Parcel Number 3.

A portion of the parcel between Cedar Hill Road and the site was subdivided by Mr. Dale and sold to the current owners for residential development. The parcels on which the site is located consists of 6.43 acres.

According to Mr. Dale, after he purchased the property in 1971, he began receiving waste from the former Dupont plant (now Dak Americas). Mr. Dale stated that the waste consisted

of mainly off-spec yarn on eight (8) pound spools and some pallets. He also stated that he had stored some concrete pipe on the site. Mr. Dale thought that he received waste for a two (2) year period ending in 1973.

The current parcel owners have been summarized in **Section 1.0**, and the historical deeds, survey plats, and the 2011 *Property Record Cards* are provided in **Appendix A**.

Copies of the *Request for Site Access Letters* and follow-up communication logs are included as **Appendix B**.

### **3.1.2 Site Location**

The site is located approximately 3.8 miles west of the center of the Town of Navassa with a bearing of 320 degrees from true north. The site location and the surrounding area are depicted in the various maps included with this report (**Figures 1 through 4**).

### **3.1.3 General Site Description**

The site is located north of Cedar Hill Road and just east of the Robinson Cemetery, although the site may encroach on the cemetery parcel. There are several residential structures south of the site along Cedar Hill Road. The site is heavily wooded and is bounded on the north by a swampy area associated with Indian Creek. Exposed waste was found throughout the site. The horizontal extent of the site covers approximately 0.77 acres based on GPS waypoints that were collected around the visually observed extent of the site. The extent of the site is shown on the attached figures. The tabulated GPS coordinates are provided in **Table 1**.

Based on the topographic contour lines on **Figure 1**, the terrain is relatively flat with a gentle slope north-northeast towards the swampy area. According to the United States Department of Agriculture, Natural Resources Conservation Service's Web Soil Survey, the soils within the site are classified as Baymeade fine sand.

### **3.2 SITE AND PROPERTY CONDITIONS**

The following sections discuss the conditions of the site based on historical research and the site inspection. Captioned photographs are included in **Appendix C** to illustrate the condition of the site as observed during the site visits that were performed on March 11, 2011 and on April 7, 2011. A copy of the *Field Reconnaissance Sheet* is included as **Appendix D**.

#### **3.2.1 Structures on the Property**

No historical or current structures were observed at the site or identified in historical aerial photographs.

#### **3.2.2 Current Property Usage**

The site is currently undeveloped and is wooded, except for the portion of the site located on the cemetery parcel. This portion of the site is cleared and with grassed areas and appears to still function as a cemetery. The rest of the site is currently unused, though it appears that local residents are using the concrete pipes for storage of lumber and other materials (Photo 2 in **Appendix C**).

#### **3.2.3 Water Supply Wells and Intakes**

No water supply wells were identified at the site, nor are thought to ever have been present at the site.

#### **3.2.4 Surface Water Features**

A swampy area associated with Indian Creek is present along the northern edge of the site. A surface water drainage feature is located along the eastern edge of the site.

#### **3.2.5 Disposal Area**

Based upon information provided by Mr. Dale, historical aerial photographs, and the horizontal extent of the site based on visual observation collected during the site inspection, the disposal area encompasses approximately 0.77 acres. Portions of the site may be located

on the parcels owned by the Town of Navassa and the Robinson Cemetery.

### **3.2.6 Disposal Area Conditions**

The site is heavily wooded with dense underbrush. Exposed debris is evident throughout the site and includes numerous mounds of debris (*Photos 4, 9, 10, and 12* in **Appendix C**) The mounds consist of a variety of material, including yarn (*Photo 5* in **Appendix C**), concrete and other demolition debris (*Photo 3* in **Appendix C**), and glass (*Photo 9* in **Appendix C**), fabric (*Photo 7* in **Appendix C**). Remnants of empty plastic and metal drums and oil containers were also observed (*Photos 1 and 8* in **Appendix C**). There are also several sections of large diameter concrete pipe stored on-site.

### **3.2.7 Evidence of Human Activity**

The site is adjacent to residential structures and it appears that some recent random dumping has occurred. Additionally, some of the concrete pipes are used for storage of various materials. Along the western edge of the site, debris from the cemetery (floral arrangement accessories, *Photo 7* in **Appendix C**) has been disposed.

### **3.2.8 Potential Landfill Gas Migration Pathways**

No potential landfill gas migration pathways were noted on-site. The site does not contain any building foundations or underground utilities that would promote migration of landfill gas. One residential structure is located as close as 110 feet from the site.

### **3.2.9 Physical Barriers**

There are no physical barriers preventing access to the site.

### **3.2.10 Other Pertinent Information**

Mr. Eulis Willis, mayor of the Town of Navassa, noted that he had heard that some of the waste disposed at the site was “some pretty toxic stuff”, but he did note that that was only “street talk”, and he was not aware of any specifics as to what was disposed at the site.

### 3.3 VICINITY CONDITIONS

#### 3.3.1 Structures Located within 50 Feet of the Site

No structures were observed within the 50 feet radius.

#### 3.3.2 Vicinity Water Supply Wells and Intakes

Thirteen water supply wells were identified within 1,000 feet of the site (**Figure 2**). It was confirmed, through communication with the Brunswick County Public Utilities, that municipal water is provided to eleven of the residences identified as having a water supply well (labeled 3 – 13). Water supply wells could not be identified at the other two residences (labeled 1 and 2) but are assumed to have wells since these residences are not connected to the municipal water.

Based on research on the NCDENR, Water Quality Division, Public Water Supply website, there are no permitted Well Head Protection Areas in the vicinity of the site.

#### 3.3.3 Current Land Usage

Current land usage within 1,000 feet of the site is as follows:

*North:* The site is bordered to the north by a swampy area that drains to the north into Indian Creek. Undeveloped woodlands are located north of Indian Creek to outside the 1,000 foot radius.

*East:* Due east is a surface water drainage feature that serves as the eastern limit of the disposal area. Further east are woodlands that transition into wetlands associated with Indian Creek. Southeast of the site, woodlands extend to approximately 650 feet at which point, residential development is located adjacent to Cedar Hill Road, up to the 1,000 foot radius.

*South:* In the due south and southwest direction, residential structures and some woodlands are present for the entire 1,000 foot radius.

*West:* Immediately west of the site is the Robinson Cemetery. Further west is undeveloped woodlands. Approximately 900 feet from the site are two residential structures.

### 3.3.4 Surface Water Features

Indian Creek is located approximately 350 northeast of the site. Cherry Tree Prong flows into Indian Creek approximately 950 northwest of the site. Indian Creek flows south and east and eventually discharges into the Cape Fear River. Based on research on the NCDENR, Water Quality Division, Public Water Supply website, there are no water supply watersheds in the vicinity of the site.

## 4.0 AERIAL PHOTOGRAPHY REVIEW

MM&A obtained aerial photographs from the Brunswick County Soil and Water Conservation District (SWCD), the United States Geological Survey (USGS), and the United States Department of Agriculture (USDA) Aerial Photography Field Office, National Agricultural Imagery Program (NAIP) to provide information on the operational history of the site and the development history of the vicinity.

The sources and years for the aerial photographs obtained are as follows:

- 1938 Brunswick County SWCD, Frame AOH-40-30 (S-2)
- 1949 Brunswick County SWCD, Frame AOH-8F-66 (R-2)
- 1956 Brunswick County SWCD, Frame AOH-6N-24 (R-2)
- 1966 Brunswick County SWCD, Frame AOH-266-76 (R-2)
- 1972 Brunswick County SWCD, Frame 37019-172-7 (R-3)
- 1982 Brunswick County SWCD, Frame 367603-301-201 (C-2)
- 1998 USGS Digital Orthophoto Quarter Quadrangle, Leland SE, North Carolina
- 2005 USDA, Aerial Photography Field Office, 2005 NAIP
- 2010 USDA, Aerial Photography Field Office, 2010 NAIP

The aerial photographs listed above are included in **Appendix E**. Following is a summary of the observations made from the review of the aerial photography:

**1938** – the southern portion of the site is cleared for agricultural purposes, while the rest of

the site is wooded. South and southwest of the site has been cleared and there are some residential structures to the southwest along Cedar Hill Road. The remaining surrounding area is undeveloped and wooded, except for a cleared area southeast of the site.

**1949** – the southern portion of the site is now wooded, with only a small cleared area along the western edge of the site. The surrounding property remains unchanged from the previous photograph.

**1956** – the site is now entirely wooded. There is some additional residential development located south and southeast of the site on both sides of Cedar Hill Road.

**1966** – the site is still wooded and the former cleared area just south of the site has some vegetation. The surrounding property remains relatively unchanged except for some additional residential development southwest of the site. A dirt road now appears along the western edge of the site terminating in a small cleared area which may be the Robinson Cemetery. .

**1972** – this photograph represented the time in which the site was reportedly active. However there is no evidence of disposal as the site remains wooded. The surrounding properties remain unchanged except for two new cleared areas northwest of the site, across Indian Creek.

**1982** - the site has been partially cleared and there appears to be a dirt access road leading to the site. There is a feature in the central portion of the site that could be the concrete pipe. A trailer park is now located southeast of the site and a residential development appears to the southwest across Cedar Hill Road. Additional residences are now seen south of Cedar Hill Road due south of the site. The remaining surrounding properties are unchanged.

**1998** – the site is partially wooded with vegetation on the cleared areas. There is a resident south of the site on the north side of Cedar Hill Road. The remaining areas remain relatively

unchanged.

**2005** – the site is completely wooded and there is a cleared area and residential structure located immediately south of the site is now present. The remaining surrounding areas are unchanged.

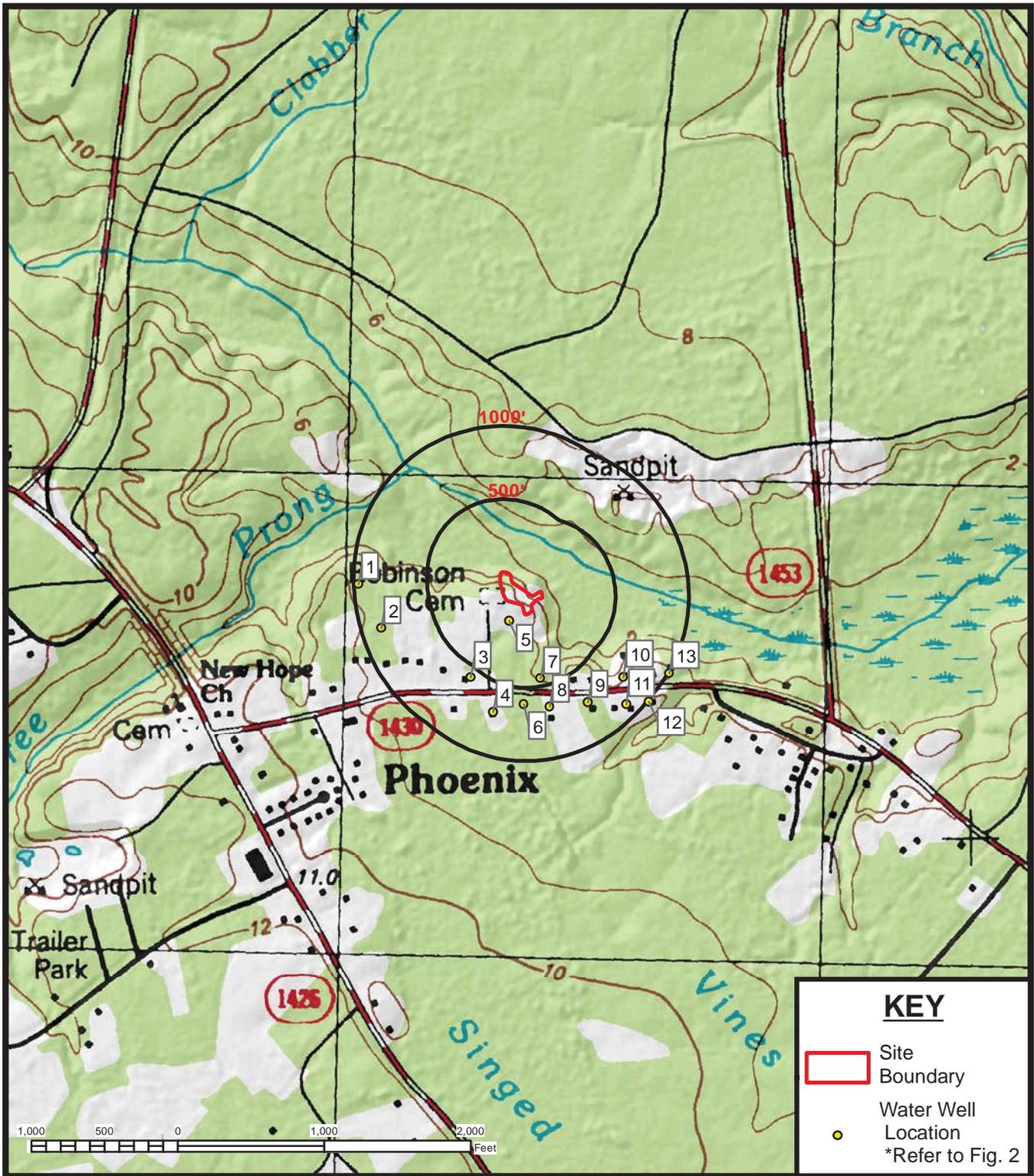
**2010** - no significant changes to the site area were evident. In the neighborhood surrounding the property, very little had changed since 2005. The 2010 aerial photograph is generally representative of current conditions at the site and the vicinity.

## **5.0 CERTIFICATION**

The report certification as specified in the Inactive Hazardous Sites Program, Guidelines for Addressing Pre-Regulatory Landfills & Dumps, August 2010 is provided in **Appendix F**.

**FIGURES**





**FIGURE 1**

NCDENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA

1 inch = 1,000 feet

**TOPOGRAPHIC MAP**

BRUNSWICK COUNTY  
 LELAND QUAD



NORTH CAROLINA  
 QUADRANGLE LOCATION

Prepared by:



NCUL163 04/2011

SOURCE:

- North Carolina Department of Transportation  
 LiDAR Data, 2007
- United States Geological Survey  
 7.5' Quadrangle -  
 Leland, NC 1997

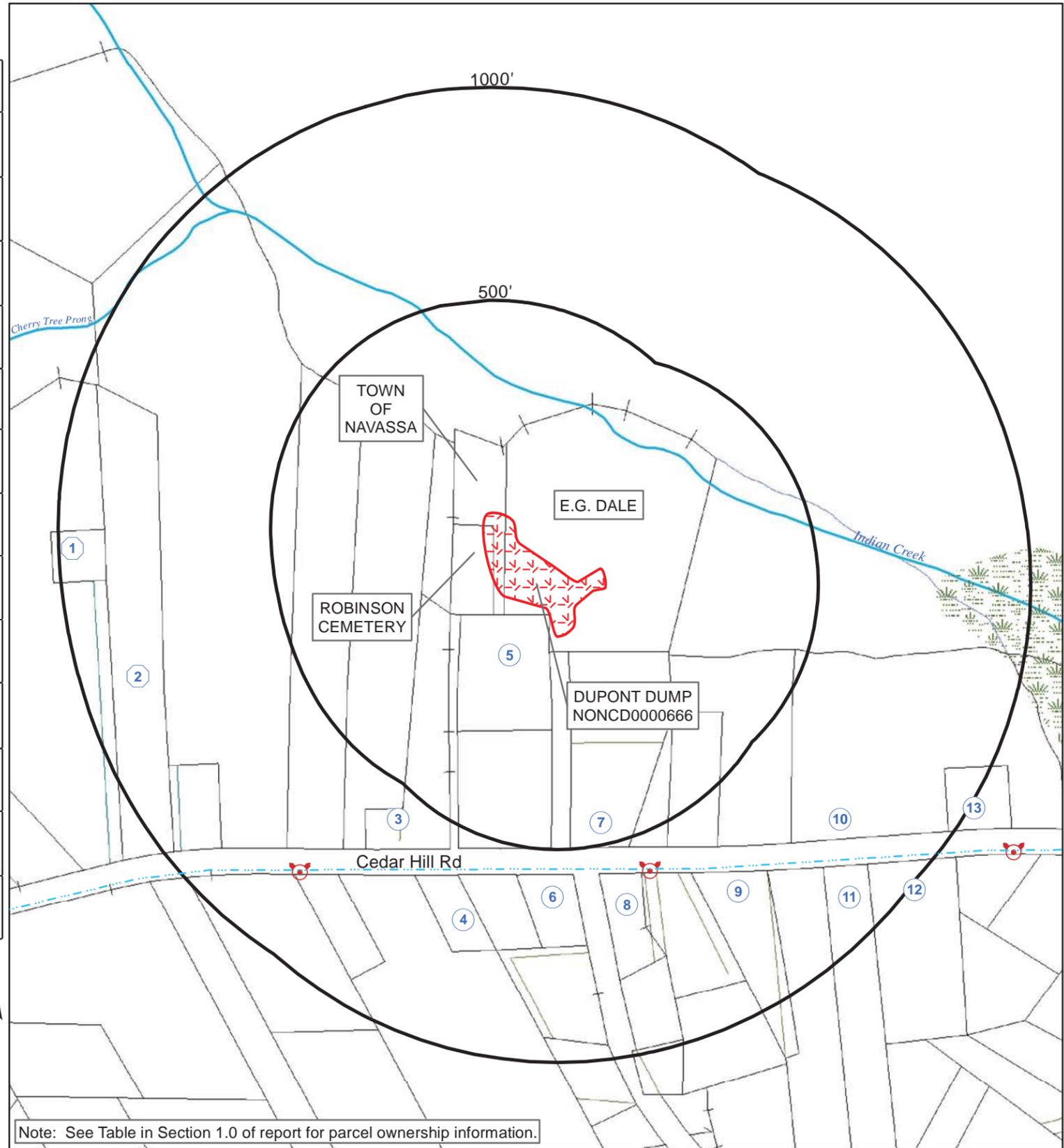
## WATER WELL LEGEND

WATER WELL ID	PIN	PROPERTY OWNER/ ADDRESS	WELL LOCATION	DISTANCE (FEET)	DIRECTION
① *	228000503391	Robbins, Donnie 2820 Cedar Hill Rd Navassa, NC 28451	2820 Cedar Hill Rd	966	W
② *	228000505134	Ballard, Henry Lee 2543 Old Cedar Loop Rd Leland, NC 28451	2804 Cedar Hill Rd	866	W
③ #	218902692920	Harrison, Frances E & Katrena 9199 Kendall Chapel Rd Winnabow, NC 28479	2772 Cedar Hill Rd	568	S
④ #	218902692488	Hooper, Doris 2747 Cedar Hill Rd Leland, NC 28451	2747 Cedar Hill Rd	117	S
⑤ #	218902693786	Bell, Henry 2565 Old Cedar Loop Rd Leland, NC 28451	2738 Cedar Hill Rd	612	S
⑥ #	218902695429	Shaw, Willie B 51 Dixon Rd Southport, NC 28461	2729 Cedar Hill Rd	700	S
⑦ #	218902696854	Willis, Larry D PO Box 875 Leland, NC 28451	2720 Cedar Hill Rd	448	S
⑧ #	218902696495	Robbins, Jacqueline 2717 Cedar Hill Rd Leland, NC 28451	2717 Cedar Hill Rd	649	S
⑨ #	218902699464	McKnight Alice PO Box 291043 Columbia, SC 29229	2691 Cedar Hill Rd	728	S
⑩ #	218902793864	Bostic, Mildred 629 Mohican Tr Wilmington, NC 28409	2670 Cedar Hill Rd	774	SE
⑪ #	218902792158	Shaw, Leroy & Quessie B PO Box 696 Leland, NC 28451	2663 Cedar Hill Rd	907	SE
⑫ #	218902793388	Robbins, Walter 2641 Cedar Hill Rd Leland, NC 28451	2641 Cedar Hill Rd	1012	SE
⑬ #	218902795715	Ballard, Helen 95 Eastern Dr Chicopee, MA 01013	2626 Cedar Hill Rd	1010	SE

\* THE EXISTENCE OF A WATER WELL COULD NOT BE CONFIRMED WITHIN THE SCOPE OF THIS INVESTIGATION AND WAS THEREFORE PRESUMED DUE TO LACK OF A MUNICIPAL WATER CONNECTION.  
# COUNTY WATER CUSTOMERS WITH EXISTING WELLS.

### LEGEND

- |   |                        |   |                              |
|---|------------------------|---|------------------------------|
|  | SITE                   |  | WATER SUPPLY WELL (PRESUMED) |
|  | PARCEL BOUNDARY        |  | WATER SUPPLY WELL (OBSERVED) |
|  | SWAMP/MARSH            |  | FIRE HYDRANT                 |
|  | PERENNIAL STREAM/RIVER |  | 12" PVC WATER MAIN           |

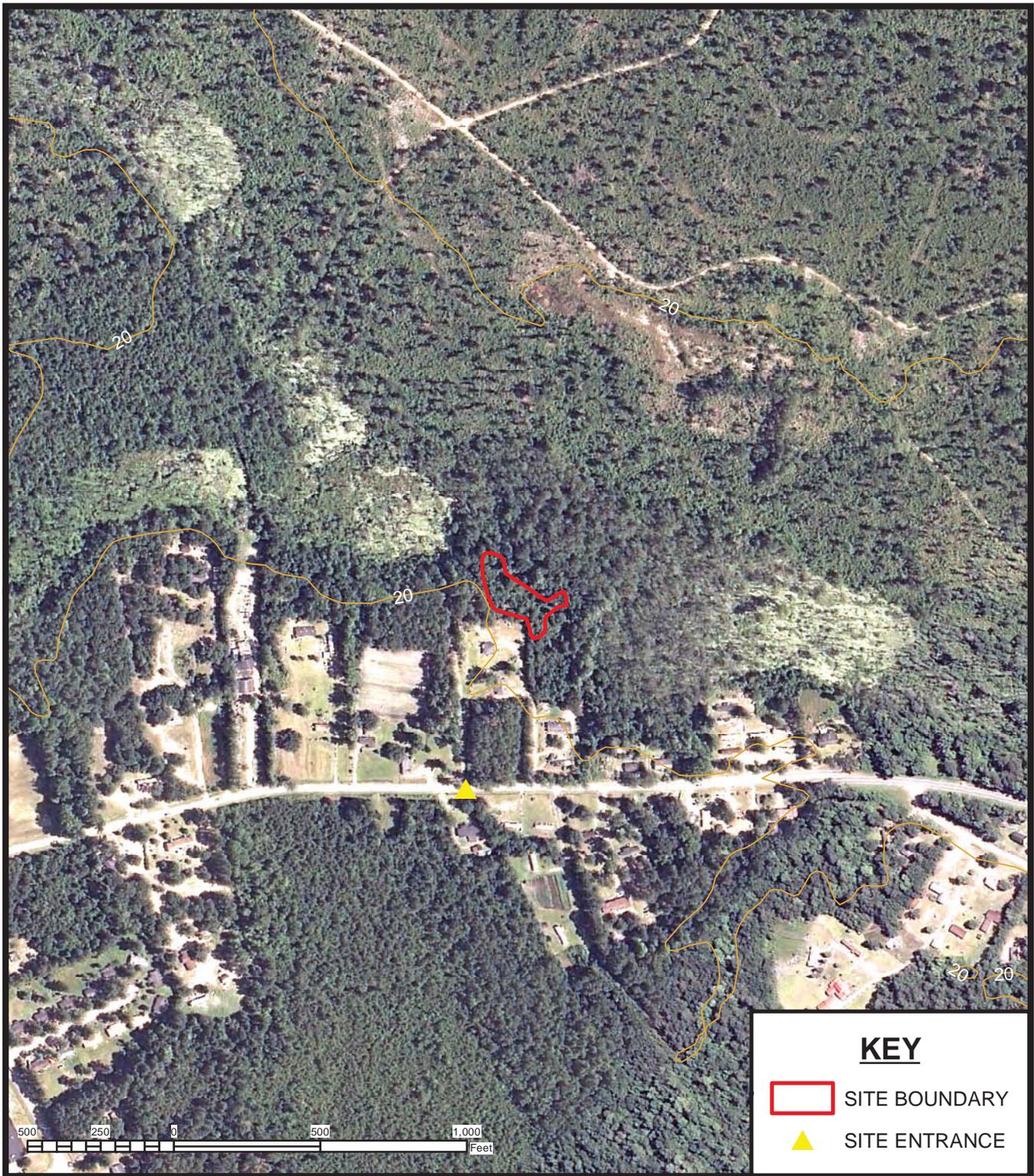


Sources: Property line and street centerline data obtained from Brunswick County ArcIMS Server. Utility data obtained from Brunswick County Public Utilities. Hydrography data obtained from the National Hydrography Dataset, High Resolution.

Coordinate System: NAD 1983 StatePlane North Carolina FIPS 3200 Feet  
Datum: North American 1983

DESIGNED:	JAH
DRAWN:	EMC
CHECKED:	LG
DATE:	6/7/2011
SCALE:	1" = 300'
PROJECT NO.:	NCUL163

NCDEN/OLD UNLINED LANDFILLS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY, N.C.  
 PROPERTY/WATER WELL LOCATION MAP



Contour Interval = 20 Feet

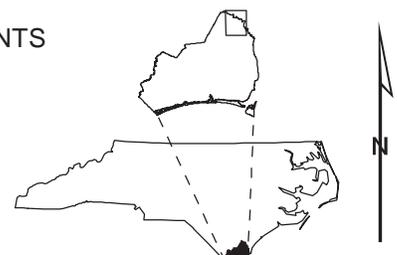
**FIGURE 3**

BRUNSWICK COUNTY  
LELAND QUAD

Prepared by:



NCDENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA



SOURCE:

- United States Department of Agriculture Aerial Photography Field Office, 2010 NAIP
- Topographic data from North Carolina Department of Transportation Geographic Information Systems Unit

**1 inch = 500 feet**

**VICINITY MAP**

NORTH CAROLINA  
QUADRANGLE LOCATION



Prepared by:  
  
 NCUL163 05/2011

- SOURCES:
- ESRI Street Maps
  - USGS National Hydrography Dataset, High Resolution
  - NCDOT LiDAR Data, 2007

**FIGURE 4**  
 NCDENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA

1 inch = 4,000 feet

**SITE LOCATION MAP**

BRUNSWICK COUNTY  
 LELAND QUAD



NORTH CAROLINA  
 QUADRANGLE LOCATION



Prepared by:  
  
 NCUL163 05/2011

- SOURCES:  
 - ESRI Street Maps  
 - USGS National Hydrography Dataset, High Resolution  
 - NCDOT LiDAR Data, 2007

**FIGURE 4**  
 NCDENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA

1 inch = 4,000 feet

**SITE LOCATION MAP**

BRUNSWICK COUNTY  
 LELAND QUAD



NORTH CAROLINA  
 QUADRANGLE LOCATION

## TABLES

**TABLE 1  
TABULATED GPS COORDINATES  
DUPONT DUMP  
NONCD0000666  
NAVASSA, BRUNSWICK COUNTY, NC**

Waypoint	GPS Waypoint Description	State Plane* (Meters)		Decimal Degrees*	
		State Plane X	State Plane Y	Latitude	Longitude
1	Concrete Pipe	696896.492	61028.165	34.29637	-78.05178
2	Concrete Slabs, Brick, Yarn	696942.297	61033.134	34.29641	-78.05128
3	Debris Mound, Concrete Slabs	696964.152	61048.015	34.29654	-78.05104
4	Yarn	696968.259	61034.071	34.29642	-78.05100
5	Mound of Glass and Metal Debris	696900.802	61083.349	34.29687	-78.05173
6	Mound of Debris	696949.020	61038.761	34.29646	-78.05121
7	Fabric Debris	696925.655	61053.529	34.29660	-78.05146
8	Site Entrance	696863.568	60842.721	34.29470	-78.05216
9	Perimeter Point	696885.700	61088.337	34.29691	-78.05189
10	Perimeter Point	696900.769	61083.886	34.29687	-78.05173
11	Perimeter Point	696907.134	61066.131	34.29671	-78.05166
12	Perimeter Point	696925.624	61053.915	34.29660	-78.05146
13	Perimeter Point	696948.993	61039.158	34.29646	-78.05121
14	Perimeter Point	696964.123	61048.406	34.29655	-78.05104
15	Perimeter Point	696968.231	61034.461	34.29642	-78.05100
16	Perimeter Point	696959.604	61032.732	34.29641	-78.05109
17	Perimeter Point	696948.435	61023.355	34.29632	-78.05122
18	Perimeter Point	696945.133	61006.280	34.29617	-78.05125
19	Perimeter Point	696934.714	60999.904	34.29611	-78.05137
20	Perimeter Point	696925.884	61020.294	34.29630	-78.05146
21	Perimeter Point	696896.465	61028.558	34.29637	-78.05178

\* State plane coordinates are recorded using the North American Datum of 1983 (NAD83). Decimal degrees are recorded using the World Geodetic System of 1984 (WGS84).



**APPENDIX A**  
*Deeds*

COUNTY OF BRUNSWICK )  
TO ) D E E D  
MATTIE PURNELL )

STATE OF NORTH CAROLINA  
COUNTY OF BRUNSWICK

THIS DEED, Made this the 6th day of August, 1951, by and between the County of Brunswick, pursuant to a resolution had by the Board of County Commissioners, party of the first part, to Mattie Purnell, of Philadelphia, Pennsylvania, party of the second part:

W I T N E S S E T H

THAT the said party of the first part, pursuant to the resolution aforesaid and in consideration of the sum of ONE HUNDRED NINETY EIGHT AND NO/100 (\$198.00) DOLLARS, to it in hand paid by the said party of the second part, the receipt of which is hereby acknowledged, has bargained and sold and by these presents does grant, bargain, sell and convey unto the said party of the second part, her heirs and assigns, all that certain tract or parcel of land, lying and being in Northwest Township, Brunswick County, North Carolina, and more particularly described as follows:

Bounded on the east by Clara Everette, on the south by J. C. Croom, on the west by the lands of the Jesse Robbins Estate, on the north by Cherry Tree Prong Branch, containing 22.5 acres, and known as the Hardy Hatcher Estate lands.

TO HAVE AND TO HOLD the above described tract or parcel of land, and all privileges and appurtenances thereunto belonging unto the said party of the second part, her heirs and assigns, to their only use and behoof FOREVER, in as full and ample manner as the said party of the first part is empowered by law to convey the same.

IN WITNESS WHEREOF, the said County of Brunswick has caused this instrument to be executed in its name by its Chairman of the Board of County Commissioners, attested to by the Clerk to the said Board and its corporate seal to be hereto affixed.

ATTEST: A. J. Walton  
CLERK, BOARD COUNTY  
COMMISSIONERS  
(CORPORATE SEAL)

COUNTY OF BRUNSWICK (SEAL)  
BY: Elroy King  
CHAIRMAN, BOARD COUNTY  
COMMISSIONERS

STATE OF NORTH CAROLINA  
COUNTY OF BRUNSWICK

THIS the 6th day of August, 1951, personally came before me, S. T. Bennett, Clerk of the Superior Court of Brunswick County, North Carolina, Amos J. Walton, who being duly sworn, says that he knows the common seal of the County of Brunswick and that he is acquainted with Elroy King, who is Chairman of the Board of County Commissioners of said County of Brunswick and that he, the said Amos J. Walton, is Clerk to the Board of County Commissioners of said County of Brunswick and that he saw the said Chairman of said County Commissioners sign the foregoing instrument and that the said Amos J. Walton affixed said common seal to said instrument in the presence of said Chairman of the Board of County Commissioners and assigned his name in attestation of the execution of said instrument in the presence of the said Chairman of the Board of County Commissioners of Brunswick County. Let the instrument, with this certificate, be registered.

Witness my hand and official seal, this the 6th day of August, 1951.

B. J. Holden  
Asst. Clerk Superior Court

Filed for registration on the 16 day of Aug., 1951 at 4 o'clock P.M. and duly recorded.

*A. J. Walton*  
Registrar of Deeds

BOOK 262 PAGE 490

STATE OF NORTH CAROLINA

BRUNSWICK

COUNTY

S.S.—WARRANTY LEED

THIS INDENTURE, Made this 28th day of September, A. D., 1971  
by and between W. W. Sigman and wife, Myrtle H. Sigman

of  
Wilmington County of New Hanover and  
State of North Carolina, of the first part, and E. O. Dale and wife,  
Eleanor H. Dale of Leland  
in the County of Brunswick and State of North Carolina  
of the second part.

WITNESSETH, That the said parties of the first part, for and in consideration of the sum of  
ONE HUNDRED Dollars  
and other valuable considerations to them in hand paid by the said parties of the second  
part, the receipt whereof is hereby acknowledged, have given, granted, bargained and sold  
aliened and conveyed, and by these presents do hereby give, grant, bargain and sell, alien,  
convey and confirm unto the said parties of the second part and to their heirs and  
assigns forever, all that certain lot of land, situated, lying and being in Northwest Township  
County of Brunswick and State of North Carolina, bounded and  
described as follows, to-wit:

Beginning at an iron pipe in the north right-of-way line of Mount Misery Road  
(State Road 1430) 30.0 feet from the centerline thereof, said point being  
North 3 deg. 16 min. East 30.0 feet from a point in the centerline of said  
Mount Misery Road that is 1915.9 feet Eastwardly from a railroad spike in the  
centerline of Brunswick County Road (State Road) 1426 at Phenix, North Carolina  
as measured along the centerline of said Mount Misery Road; running thence from  
said beginning point and along the northern right-of-way line of said Mount  
Misery Road South 86 deg. 18 min. East 418.1 feet to an iron pipe on the  
eastern edge of a ditch; running thence along a marked line North 20 deg. 57  
min. East 333.6 feet to an iron pipe; running thence North 0 deg. 38 min.  
West 123.0 feet to an iron pipe; running thence along a marked line North 15  
deg. 19 min. East 456.0 feet to an iron pipe on the southern side of Cherry  
Tree Prong Branch and the same course continued, North 15 deg. 19 min. East  
464.0 feet in all to a point in the centerline of said Cherry Tree Prong Branch;  
running thence up the run of said Branch to a point, said point being the  
following courses and distances from the preceding point: North 49 deg. 55 min. W  
West 72.0 feet, North 63 deg. 13 min. West 164.0 feet, North 76 deg. 23 min.  
West 83.0 feet, South 74 deg. 23 min. West 168.0 feet, South 47 deg. 47 min.  
West 66.0 feet and North 67 deg. 56 min. West 119.8 feet to said point;  
running thence South 3 deg. 16 min. West 10.0 feet to an iron pipe on the  
southern side of Cherry Tree Prong Branch and the same course continued, South



Record  
262

BOOK 262 PAGE 492  
IN TESTIMONY WHEREOF, the said parties of the first part have hereunto set  
their hands and affixed their seals the day and year above written.

WITNESS:

BRUNSWICK COUNTY  
033836

STATE OF NORTH CAROLINA  
NOV 1971



Real Estate Excise Tax  
06.00

*M. H. Sigman* (Seal)  
*M. H. Sigman* (Seal)  
\_\_\_\_\_  
\_\_\_\_\_  
(Seal)

STATE OF NORTH CAROLINA }  
NEW MANOVER COUNTY }

I, PINCNEY H. HEATON, JR. a Notary Public in and for the State and  
County aforesaid, do hereby certify that W. W. Sigman and  
MARIE H. SIGMAN his wife, personally appeared before me this day and acknowl-  
edge the due execution of the annexed instrument.



in my hand and seal this 28th day of September, 1971.  
Pincney H. Heaton, Jr. Notary Public  
My commission expires the 28th day of October, 1975.

STATE OF NORTH CAROLINA }  
\_\_\_\_\_  
COUNTY }

I, \_\_\_\_\_  
NORTH CAROLINA BRUNSWICK COUNTY  
personally The foregoing certificate of \_\_\_\_\_ his presence,  
Pincney H. Heaton, Jr. ment.  
Notary Public, is (are) certified to be correct. This instrument was filed for registration  
With at 12:45 o'clock P.M., and recorded in this office in Book 262, Page 492 - 1971.  
This 19 day of Nov, 1971.  
D. T. CLARK Notary Public.  
Register of Deeds D. T. Clark  
Register of Deeds

NORTH CAROLINA BRUNSWICK COUNTY

I, M.F. UNDERWOOD, CERTIFY THAT THIS MAP WAS DRAWN FROM AN ACTUAL SURVEY MADE BY ME; THAT THE ERROR OF CLOSURE AS CALCULATED BY LATITUDES AND DEPARTURES IS 1:17,300. THAT THIS MAP WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED. WITNESS MY HAND AND SEAL THIS 8<sup>TH</sup> DAY OF NOV. 1971.

M.F. Underwood  
REG. LAND SURVEYOR

SWORN TO AND SUBSCRIBED BEFORE ME THIS 8<sup>TH</sup> DAY OF NOV. 1971.

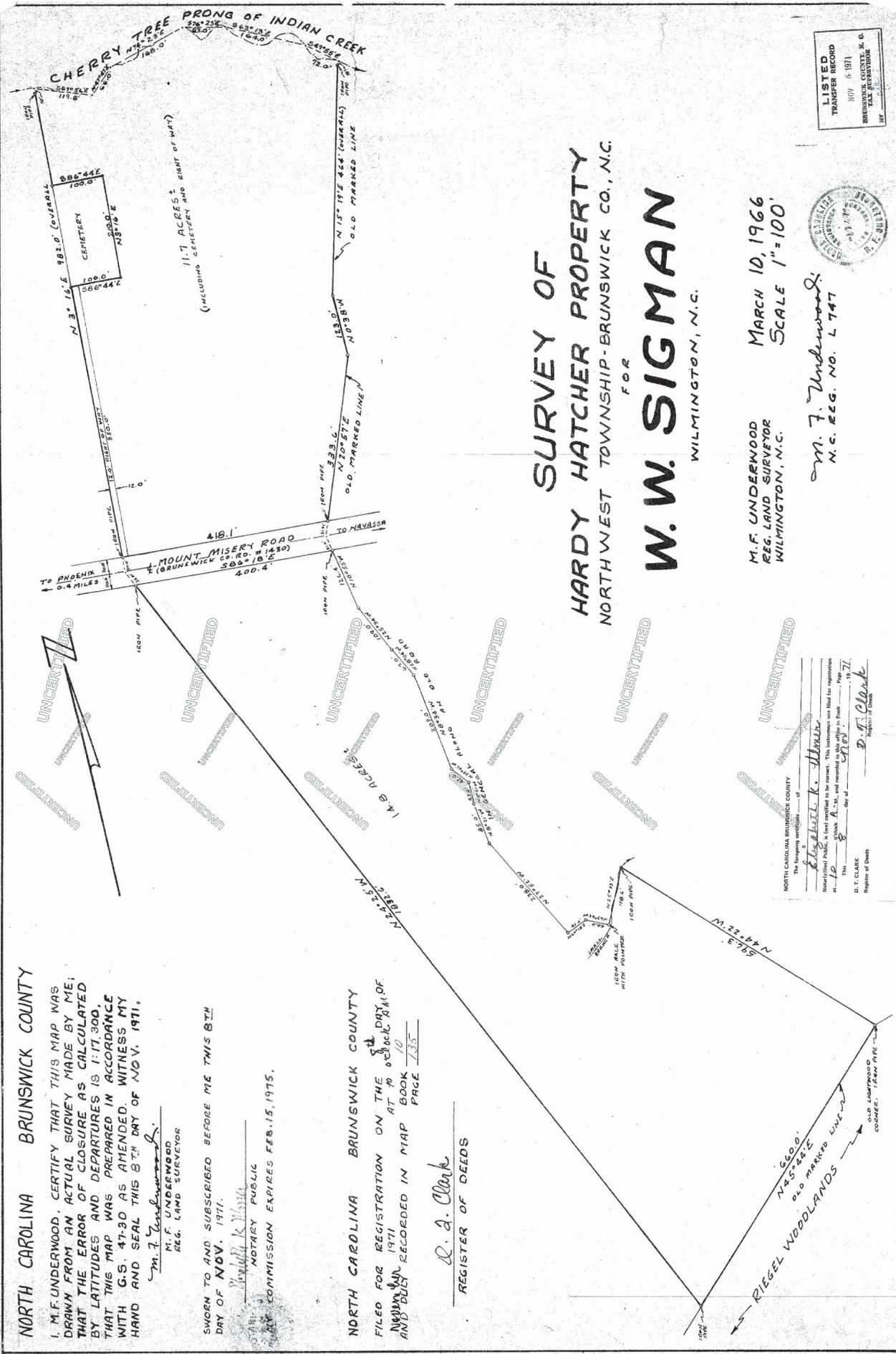
Notary Public  
NOTARY PUBLIC

MY COMMISSION EXPIRES FEB. 15, 1975.

NORTH CAROLINA BRUNSWICK COUNTY

FILED FOR REGISTRATION ON THE 14<sup>TH</sup> DAY OF NOVEMBER 1971 AT 10 O'CLOCK P.M. OF AND WAS RECORDED IN MAP BOOK 70 PAGE 135

R. A. Clark  
REGISTER OF DEEDS



SURVEY OF  
HARDY HATCHER PROPERTY  
NORTH WEST TOWNSHIP-BRUNSWICK CO., N.C.  
FOR  
**W. W. SIGMAN**  
WILMINGTON, N.C.

M.F. UNDERWOOD  
REG. LAND SURVEYOR  
WILMINGTON, N.C.  
MARCH 10, 1966  
SCALE 1" = 100'

M. F. Underwood  
N.C. REG. NO. 4747



NORTH CAROLINA BRUNSWICK COUNTY  
The Surveyor of \_\_\_\_\_  
County of \_\_\_\_\_  
has caused to be surveyed and recorded in this office in Book \_\_\_\_\_ Page \_\_\_\_\_  
the \_\_\_\_\_  
of \_\_\_\_\_  
D. T. CLARK  
Register of Deeds

LISTED  
TRANSFER RECORD  
NOV 8 1971  
BRUNSWICK COUNTY, N.C.  
PLAT SURVEYOR

Brunswick County Register of Deeds  
 Robert J. Robinson  
 Inst #280821 Book 2201 Page 385  
 07/29/2005 11:51:35am Rec# 24716

RET EULIS WILLIS  
 TOTAL 20-REV TC# 1  
 REC# CK AMT 20-CK# 8246  
 CASH REF BY [Signature]

**NORTH CAROLINA GENERAL WARRANTY DEED**

Excise Tax:

Parcel Identifier No. \_\_\_\_\_ Verified by \_\_\_\_\_ County on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
 By: \_\_\_\_\_

Mail/Box to: E. G. Dale P. O. Box 157, Leland, N. C. 28451

This instrument was prepared by: E. G. Dale

Brief description for the Index: \_\_\_\_\_

THIS DEED made this 27th day of July, 2005 by and between

GRANTOR

GRANTEE

E. G. Dale and wife  
 Eleanor H. Dale  
 P. O. Box 157  
 Leland, N. C. 28451

The Town of Navassa  
 Navassa, N. C. 28451

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.g. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in the City of Navassa Township, Brunswick County, North Carolina and more particularly described as follows:

SEE ATTACHED SCHEDULE "A"

TS	AUX	CON	GR	PCL	Sr
1	U	0170	0	036	1100
M&P	MPSUF	BLK	PIN	SUF	INI
					CA

The property hereinabove described was acquired by Grantor by instrument recorded in Book 262 page 490.

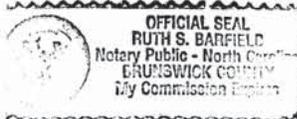
A map showing the above described property is recorded in Plat Book \_\_\_\_\_ page \_\_\_\_\_.

NC Bar Association Form No. 3 © 1976, Revised © 1977, 2002  
 Printed by Agreement with the NC Bar Association - 1981

+ James Williams & Co., Inc.  
 www.JamesWilliams.com

IN WITNESS WHEREOF, the Grantor has duly executed the foregoing as of the day and year first above written.

\_\_\_\_\_  
 (Entity Name) E.G. Dale (SEAL)  
 By: \_\_\_\_\_ Eleanor H. Dale (SEAL)  
 Title: \_\_\_\_\_ Eleanor H. Dale  
 By: \_\_\_\_\_ (SEAL)  
 Title: \_\_\_\_\_ (SEAL)  
 By: \_\_\_\_\_ (SEAL)  
 Title: \_\_\_\_\_ (SEAL)  
 \_\_\_\_\_ (SEAL)  
 \_\_\_\_\_ (SEAL)



USE BLACK INK ONLY  
 State of North Carolina - County of Brunswick  
 I, the undersigned Notary Public of the County and State aforesaid, certify that E.H. Dale  
Eleanor H. Dale personally appeared before me this day and  
 acknowledged the due execution of the foregoing instrument for the purposes therein expressed. Witness my  
 hand and Notarial stamp or seal this 27<sup>th</sup> day of July, 2005.  
 My Commission Expires: 3/26/2010 Ruth S. Barfield  
 Notary Public

SEAL-STAMP  
 USE BLACK INK ONLY  
 State of North Carolina - County of \_\_\_\_\_  
 I, the undersigned Notary Public of the County and State aforesaid, certify that \_\_\_\_\_  
 \_\_\_\_\_ personally came before me this day and  
 acknowledged that he is the \_\_\_\_\_ of \_\_\_\_\_.

**STATE OF NORTH CAROLINA  
 COUNTY OF BRUNSWICK**

The Foregoing (or annexed) Certificate(s) of RUTH S BARFIELD

Notary(ies) Public is (are) Certified to be Correct.  
 This Instrument was filed for Registration on this 29<sup>th</sup> Day of July, 2005  
 in the Book and page shown on the First Page hereof.

Robert J. Robinson  
 ROBERT J. ROBINSON, Register of Deeds

USE BLACK INK ONLY  
 Witness my hand and Notarial stamp or seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.  
 My Commission Expires: \_\_\_\_\_  
 Notary Public

The foregoing Certificate(s) of \_\_\_\_\_ is/are certified to be correct.  
 This instrument and this certificate are duly registered at the date and time and in the Book and Page shown on the first page hereof.  
 \_\_\_\_\_ Register of Deeds for \_\_\_\_\_ County

By: \_\_\_\_\_ Deputy/Assistant - Register of Deeds

SCHEDULE "A"

Description For  
Town of Navassa from E.G. Dale

Beginning at iron pipe on Northern R/W of S.R. 1430, also the west side of 20.0 foot easement, said I.P. being located from nail and cap in center line of Mt. Misery Road S.R. 1426, N 81-10-55 E, 1296.82 feet, thence S 86-24-07 E, 617.18 feet to a nail in center line of S.R. 1430, thence N 7-36-41 E, 30.46 feet to beginning point.

Thence with west line of 20.0 foot easement N 3-25-14 E, 458.04 feet to I.P., thence continuing with 20.0 foot easement N 3-25-42 E, 91.59 feet to I.P. southwest corner of cemetery, thence N 3-25-42 E, 210.0 feet to I.P. corner of cemetery lot, thence continuing N 5-37-03 E, 13.61 feet to high water line, thence N 3-16-20 E, 208.77 feet to I.P. in run of Cherry Tree Prong Branch, thence with said branch S 67-56-00 E, 119.80 feet, thence continuing with said branch N 47-47-00 E, 14.89 feet, thence leaving said branch a new line S 3-16-00 E, 405.32 feet to new I.P., thence N 86-18-00 W, 25.0 feet to I.P. corner of cemetery lot, thence with cemetery lot N 86-18-00 W, 80.00 feet to eastern line of 20.0 foot easement, thence with eastern line of 20.0 foot easement S 02-57-29 W, 91.58 feet to I.P., thence continuing with said easement S 3-30-17 W, 458.04 feet to I.P. in R/W of S.R. 1430, thence N 86-24-07 W, 20.0 feet to the beginning point. Containing 0.95 acres according to a map by Davey Williamson, July 18, 2005. This being a portion of the Sigman Tract in Deed Book 280 Page 821.

DALE E G ETUX ELEANOR  
 1084649-0 JTRI 01/07/11 1023 Prop Addr-> <--  
 DEBT 03/07/06 09:34 Size 5.22 A A  
 Bruns Co Fire->09 00/00/00 0262-0490  
 City->24 Dist->00 Wtr-> 5.22 ACRES NC-1430  
 Appraised By A2 01/07/11

1003 1 0000 0170 0 036  
 TWN AMAP CMAP GP PAR SPL IN  
 Card No. 1 of 1  
 LAST ACTION 09084

CONSTRUCTION DETAIL

USE MODEL	EFF. AREA	MARKET VALUE	REPL COST NEW	AYB	EYB	NORM	ECON	FURST	00	PCT.COND.
98		VACANT LAND								

CORRELATION OF VALUE

MARKET	
DEPRECIATED BUILDING VALUE	
TOTAL DEPR. OB/XF VALUE	
TOT LAND VALUE	4,440
TOTAL MARKET VALUE-CARD	4,440
TOTAL APPRAISED VALUE-CARD	4,440
TOTAL APPRAISED VALUE-PARCEL	4,440

TYP AREA PCT AREA RCN

UNOFFICIAL

TOTAL

LINE NO.	DESCRIPTION	LENGTH	WIDTH	UNITS/AREA	UNIT PRICE	UC	GRA	YEAR ON	ANNUAL DEPR. RATE	PERCENT GOOD	OB/XF DEPR. VALUE
01				.	.			.	.		
02				.	.			.	.		
03				.	.			.	.		
04				.	.			.	.		
05				.	.			.	.		
06				.	.			.	.		
07				.	.			.	.		
08				.	.			.	.		
09				.	.			.	.		
10				.	.			.	.		

SALES DATA							INDICATED SALES PRICE
OFF RECORD	DATE	TYPE	QTY	UNIT	ACRES	PRICE	

NOTES  
 1 CHANGE LOC&TOPO TO GET  
 2 LAND VAL 5000+  
 3 WASTE BURIAL SITE  
 4 CORRECT AC 3/09 #28  
 BUILDING DIMENSIONS

TOTAL OB/XF VALUE

LAND USE	USE CODE	ZONE	FRNT	DPHTH	DEPDCF	OTHER ADJ/NOTES	UNIT PR	TOT UNITS	SUNTOTADJUSTED	LAND VALUE
RES RU	ACR0110R15		60		1394012	-16+00-30-40-02SP	5,000.00	522	AC 17 850.00	4,437
							.	.	.	.
							.	.	.	.
							.	.	.	.
							.	.	.	.
TOTAL LAND DATA										5,320

TOWN OF NAVASSA  
 1024898-0 JTRI 04/22/10 1023 Prop Addr-> <--  
 DEBT 03/07/06 09:36 Size .70 A A  
 07/29/05 2201-0385  
 Bruns Co Fire->09 B  
 City->24 Dist->00 Wtr-> .70AC  
 Appraised By A2 04/22/10

1003 1 0000 0170 0 036 11  
 TWN AMAP CMAP GP PAR SPL IN  
 Card No. 1 of 1  
 LAST ACTION 09182

CONSTRUCTION DETAIL				MARKET VALUE				DEPRECIATION				CORRELATION OF VALUE			
USE	MODEL	EFF. AREA	REPL COST NEW	AYB	EYB	NORM	ECON	FURZT	PCT.COND.	MARKET					
98									00						
VACANT LAND										DEPRECIATED BUILDING VALUE					
										TOTAL DEPR. OB/XF VALUE					
										TOT LAND VALUE					
										TOTAL MARKET VALUE-CARD					
										TOTAL APPRAISED VALUE-CARD					
										TOTAL APPRAISED VALUE-PARCEL					

TYP	AREA	PCT	AREA	RCN

LINE NO.	DESCRIPTION	LENGTH	WIDTH	UNITS/AREA	UNIT PRICE	UC	G R A	YEAR ON	ANNUAL DEPR. RATE	PERCENT GOOD	OB/XF DEPR. VALUE
01				.	.			.	.		
02				.	.			.	.		
03				.	.			.	.		
04				.	.			.	.		
05				.	.			.	.		
06				.	.			.	.		
07				.	.			.	.		
08				.	.			.	.		
09				.	.			.	.		
10				.	.			.	.		

TOTAL

LINE NO.	DESCRIPTION	LENGTH	WIDTH	UNITS/AREA	UNIT PRICE	UC	G R A	YEAR ON	ANNUAL DEPR. RATE	PERCENT GOOD	OB/XF DEPR. VALUE
1				.	.			.	.		
2				.	.			.	.		
3				.	.			.	.		
4				.	.			.	.		
5				.	.			.	.		
6				.	.			.	.		
7				.	.			.	.		
8				.	.			.	.		
9				.	.			.	.		

LAND USE	USE CODE	ZONE	FRNT	DPHT	DEPDCF	OTHER ADJ/NOTES	UNIT PR	TOT UNITS	SUNTOTADJUSTED	LAND VALUE
1	PUBLIC AREA	8000RU			2604070+00-30+00+00+00PD		5,000.00	.70AC182	9,100.00	6,370
2							.	.	.	.
3							.	.	.	.
4							.	.	.	.
5							.	.	.	.
6							.	.	.	.

TOTAL LAND DATA

SALES DATA			
OFF RECORD	DATE	INDICATED SALES PRICE	
BOOK	PAGE	MO.	YR.
220103850705WD			
1			
2			
3			
4			
5			

NOTES			
1			
2			
3			
4			

BUILDING DIMENSIONS			
1			
2			
3			
4			

UNOFFICIAL

UNCERTIFIED

UNCERTIFIED

UNCERTIFIED

BK 1157 PG 0305

97 JUN 4 AM 9:58

REGENT J. ROSSIGNOL  
REGISTER OF DEEDS  
BRUNSWICK COUNTY, N.C.

Excise Tax

Recording Time, Book and Page

Tax Lot No.

Parcel Identifier No.

County on the day of 19

Mail after recording to

This instrument was prepared by Frank Cherry

Brief description for the Index

**NORTH CAROLINA NON-WARRANTY DEED**

THIS DEED made this 9th day of May, 1997, by and between

GRANTOR

GRANTEE

JAMES ASA BALLARD (single)

FRENCE E. HARRISON  
KATHENA M. ROBBINS  
9199 Kendall Chapel Rd.  
Winnabow, N.C. 28479

TR	ALX	CON	OP	PCL	SPL	BT
1		0170	0	034 035	0	CS

Enter in appropriate block for each party; name, address, and, if appropriate, character of entity, sole proprietor or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in the City of Northwest Township, Brunswick County, North Carolina and more particularly described as follows:

All of Tract 1 and 2 as shown on a Map recorded in Map Book 18 at page 378, Brunswick County Registry.

NET Frances Harrison

TOTAL 10.00 REV \_\_\_\_\_

TC# 1 REC# 861

CK AMT \_\_\_\_\_ \$ \_\_\_\_\_

CASH 10.00 REF \_\_\_\_\_

BY gn



**APPENDIX B**  
*Records of Communication*



Senate Bill 1492  
State of North Carolina

### Communication Log

<b>Landfill Name:</b>	Dupont Dump	<b>ID:</b>	NONCD0000666
<b>Contact Name:</b>	Navassa Mayor Eulis Willis	<b>Phone:</b>	(910) 371-2432
<b>Address:</b>	334 Main Street		
	<i>Street Address</i>		<i>Alternate Number</i>
	Navassa	NC	28451
	<i>City</i>	<i>State</i>	<i>Zip Code</i>

Date	Time	Notes
02/28/2011	11:15	Mayor Willis stated that he was familiar with the site. In 2005 the town of Navassa needed access to an old cemetery and purchased a 20 foot easement from Cedar Hill Road, though no name was given to the new "Cemetery Road." At that time he was told that E.G. "Isreal" Dale had dumped on the adjacent property. Mayor Willis stated that he had heard that some of the waste dumped may have been "some pretty toxic stuff," but that was only "street talk" he was not aware of the specifics of the waste at the site. Mayor Willis will let his assistant, Travis, know the specific location. MM&A can coordinate the site visit with Travis. -JH

Owner of property:





### Communication Log

<b>Landfill Name:</b>	Dupont Dump	<b>ID:</b> NONCD0000666
<b>Contact Name:</b>	Travis Barnes	<b>Phone:</b> (910) 371-2432
<b>Address:</b>	334 Main Street	(910) 360-0193
	<i>Street Address</i>	<i>Cell Number</i>
	Navassa	NC 28451
	<i>City</i>	<i>State      Zip Code</i>

Date	Time	Notes
03/08/2011	13:00	Travis stated that the mayor had been surprised to learn that the town owned the parcel with the dump and suspects that it may have been included in a deed providing access to the cemetery, though it should not have been. He stated that the dump is on parcel # 0170003611 and requested to accompany MM&A personnel on the site visit. Meeting Scheduled for 1300 on Friday, 3/11/2011, at the Navassa Town Hall (334 Main St), -JH
03/11/2011	11:00	Travis stated that he had a meeting that would prevent him from meeting MM&A personnel at the site earlier than scheduled. However, if earlier access is needed, MM&A personnel can visit the site un-escorted. The site is located behind a concrete store at 2772 Cedar Hill Drive, and across from a residence at 2747 Cedar Hill Drive. -JH
03/21/2011	16:00	Travis stated that he had not yet visited the towns property by the cemetery. He inquired where MM&A personnel had seen the majority of debris. Travis stated that the adjacent property owner, Mr. Dale, owned a large amount of property in Brunswick County and can be reached at (office) (910) 371-6387 or (cell) (910) 279-1321. Mr. Dale's address is PO Box 157, Navassa, NC. Travis requested that we contact him prior to visiting Mr. Dale's property so that the Town can be aware to field any questions from residents during the site visit. -JH
04/04/2011	10:40	Informed Travis that we were meeting Mr. Dale on Thursday April 7 and expected to be onsite around 11:00. TG

Owner of property:





### Communication Log

**Landfill Name:** Dupont Dump **ID:** NONCD0000666

**Contact Name:** E.G.Dale **Phone:** (910) 371-6387

**Address:** P.O. Box 157 (910) 279-1321

*Street Address* *Cell Number*

Navassa NC 28451

*City* *State* *Zip Code*

Date	Time	Notes
04/04/2011	10:15	Mr. Dale called and stated that he had received the letter. He is willing to meet with us and show us the location of the disposal area and provide maps of the property. He has subdivided some of the property for residential development. Call him once we schedule the site visit and he will meet us. TG
04/04/2011	10:30	Called Mr. Dale and arranged meeting at his office at 10:30 April 7th. His office address is 1400 Village Road, Leland NC. -TG
04/07/2011	10:00	Met with Mr. Dale. He stated that he purchased the property in 1971 and received waste from the former Dupont plant. The waste consisted of mainly off spec yarn on 8 pound spools and pallets. He also stored/disposed of some concrete pipe. Mr. Dale thought dumping stopped after 2 years. He said he had a permit from DENR, but did not have a copy. -TG

Owner of property:



Ashland, VA • (804) 798-6525  
Beckley, WV • (304) 255-8937  
Bluefield, VA • (276) 322-5467  
Camp Hill, PA • (717) 730-7810  
Charleston, WV • (304) 344-3970



www.mma1.com

Kingsport, TN • (423) 279-9775  
Lexington, KY • (859) 263-2855  
Mission, KS • (913) 648-4424  
Raleigh, NC • (919) 786-1414  
Shreveport, LA • (318) 848-4848

5900 Triangle Drive / Raleigh, NC 27617 / Tel (919) 786-1414 / Fax (919) 786-1418 / Email [raleigh@mma1.com](mailto:raleigh@mma1.com)

March 22, 2011

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Mr. E. G. Dale  
PO Box 157  
Navassa, North Carolina 28451

**Re: Request for Site Access  
PIN: 228000606347  
Dupont Dump; NONCD0000666  
Brunswick County, North Carolina**

Dear Mr. Dale:

On behalf of the North Carolina Department of Environment and Natural Resources (NCDENR), Marshall Miller & Associates, Inc., (MM&A) is submitting this information to you in order to request access to inspect your property located north of Cedar Hill Road, adjacent to the Robins Cemetery, in Navassa, North Carolina; PIN: 228000606347. The purpose of the requested inspection is explained in a copy of a letter from NCDENR, which is attached. I ask that you please contact us within one week from the date of this letter in order to discuss access to the property and to answer any questions that you may have. The undersigned can be reached via telephone at (919) 786-1414 or by e-mail at [tim.grant@mma1.com](mailto:tim.grant@mma1.com) (mma"one".com). You may also contact the NCDENR representatives listed on the attached letter with any questions.

Sincerely,  
**MARSHALL MILLER & ASSOCIATES, INC.**

A handwritten signature in cursive script that reads "Tim Grant".

Timothy D. Grant  
*Project Scientist*

Enclosure

cc: Mr. Bruce Lefler, NCDENR



North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

June 17, 2009

To: Property Owner

Re: Pre-Regulatory Landfill Assessments

The North Carolina Department of Environment and Natural Resources' Division of Waste Management (State) has been tasked with gathering information and accurately locating pre-regulatory landfills. The State is in the process of compiling a statewide inventory of these sites. Over 700 pre-regulatory landfills are currently included on a list maintained by the State.

The General Assembly has appropriated funding through Senate Bill 1492 to determine the location of these landfills and identify potential hazards to the public and the environment. After reviewing the information contained in the State's files, your property and/or a nearby property may have been used as a landfill in the past. The State requests permission to inspect your property to look for the disposal area and the presence of any hazards that may exist because of the property's past use as a landfill. Any cataloged landfills determined not to be present will be removed from the State's list.

Marshall Miller & Associates, Inc. and Schnabel Engineering South, P.C. have been contracted by the State to perform location research and inspection of these pre-regulatory landfill sites. This inspection is for information gathering purposes only. By granting permission you are not assuming responsibility for any hazards found.

If you have any questions, please contact me at (919) 508-8463.

Sincerely,

Bruce E. Lefler Jr., Hydrogeologist  
Pre-Regulatory Landfill Unit  
Inactive Hazardous Sites Branch, Superfund Section  
Division of Waste Management

NC 273 41  
03 APR 2011 11:11

• Sender: Please print your name, address, and ZIP+4 in this box •

MARSHALL MILLER & ASSOCIATES  
5900 TRIANGLE DRIVE  
RALEIGH NC 27617

TG-NCU163 Dupont Pump

7010 0780 0001 8312 0378

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
*(Domestic Mail Only; No Insurance Coverage Provided)*

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**OFFICIAL USE**

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 5 <sup>34</sup>	

Sent To: E. G. DALE  
 Street, Apt. No., or PO Box No.: PO BOX 157  
 City, State, ZIP+4: NAVASSA NC 28451

PS Form 3800, August 2006 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MR. E. G. Dale  
 P.O. Box 157  
 Navassa, NC  
 28451

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 Janet D Hall  Agent  
 Addressee

B. Received by (Printed Name) C. Date of Delivery  
 Janet D Hall 4/2/11

D. Is delivery address different from Item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Transfer from service label) 7010 0780 0001 8312 0378

**APPENDIX C**  
*Site Inspection Photodocumentation*



**Marshall Miller & Associates, Inc.**  
**NCDENR Old Unlined Landfill Photodocumentation**

**Site Name: Dupont Dump**

**Site County: Brunswick County**

**Site ID #: NONCD0000666**

**Project Number: NCUL163**

**PHOTO 1**

**Date:**  
**April 7, 2011**

**Description:**  
**Remains of plastic**  
**drum and oil**  
**containers.**

**GPS Waypoint:**  
**N/A**

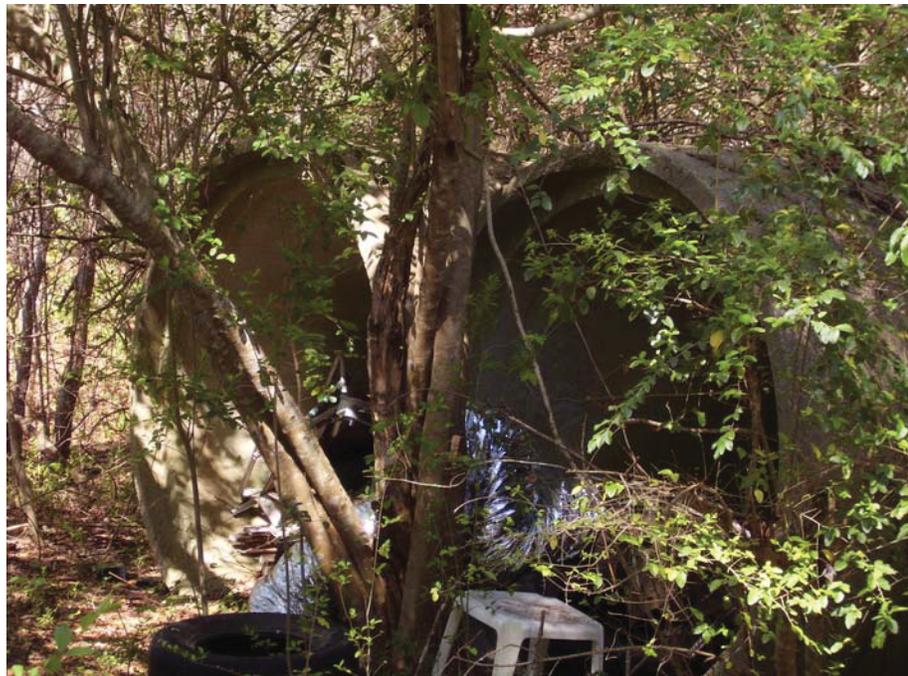


**PHOTO 2**

**Date:**  
**April 7, 2011**

**Description:**  
**Concrete pipe.**

**GPS Waypoint:**  
**1**



**Marshall Miller & Associates, Inc.**  
**NCDENR Old Unlined Landfill Photodocumentation**

<b>Site Name: Dupont Dump</b>	<b>Site County: Brunswick County</b>
<b>Site ID #: NONCD0000666</b>	<b>Project Number: NCUL163</b>

**PHOTO 3**

**Date:**  
April 7, 2011

**Description:**  
Concrete slabs,  
bricks, yarn.

**GPS Waypoint:**  
2



**PHOTO 4**

**Date:**  
April 7, 2011

**Description:**  
Debris mound,  
including concrete  
slabs.

**GPS Waypoint:**  
3



**Marshall Miller & Associates, Inc.**  
**NCDENR Old Unlined Landfill Photodocumentation**

**Site Name: Dupont Dump**

**Site County: Brunswick County**

**Site ID #: NONCD0000666**

**Project Number: NCUL163**

**PHOTO 5**

**Date:**  
**April 7, 2011**

**Description:**  
**Yarn.**

**GPS Waypoint:**  
**4**



**PHOTO 6**

**Date:**  
**April 7, 2011**

**Description:**  
**Eastern edge of Site defined by mound.**

**GPS Waypoint:**  
**N/A**



**Marshall Miller & Associates, Inc.**  
**NCDENR Old Unlined Landfill Photodocumentation**

**Site Name: Dupont Dump**

**Site County: Brunswick County**

**Site ID #: NONCD0000666**

**Project Number: NCUL163**

**PHOTO 7**

**Date:**  
**April 7, 2011**

**Description:**  
**Waste from cemetery along eastern edge of Site.**

**GPS Waypoint:**  
**N/A**



**PHOTO 8**

**Date:**  
**April 7, 2011**

**Description:**  
**Remnants of drum.**

**GPS Waypoint:**  
**N/A**



**Marshall Miller & Associates, Inc.**  
**NCDENR Old Unlined Landfill Photodocumentation**

**Site Name: Dupont Dump**

**Site County: Brunswick County**

**Site ID #: NONCD0000666**

**Project Number: NCUL163**

**PHOTO 9**

**Date:**  
**April 7, 2011**

**Description:**  
**Mound of glass and metal debris.**

**GPS Waypoint:**  
**5**



**PHOTO 10**

**Date:**  
**April 7, 2011**

**Description:**  
**Mound of debris.**

**GPS Waypoint:**  
**6**



**Marshall Miller & Associates, Inc.**  
**NCDENR Old Unlined Landfill Photodocumentation**

**Site Name: Dupont Dump**

**Site County: Brunswick County**

**Site ID #: NONCD0000666**

**Project Number: NCUL163**

**PHOTO 11**

**Date:**  
**April 7, 2011**

**Description:**  
**Fabric debris.**

**GPS Waypoint:**  
**7**



**PHOTO 12**

**Date:**  
**April 7, 2011**

**Description:**  
**Mound of debris.**

**GPS Waypoint:**  
**N/A**



**Marshall Miller & Associates, Inc.**  
**NCDENR Old Unlined Landfill Photodocumentation**

**Site Name: Dupont Dump**

**Site County: Brunswick County**

**Site ID #: NONCD0000666**

**Project Number: NCUL163**

**PHOTO 13**

**Date:**  
**April 7, 2011**

**Description:**  
**Site entrance.**

**GPS Waypoint:**  
**8**



**APPENDIX D**  
*Field Reconnaissance Sheet*



**MARSHALL MILLER & ASSOCIATES  
 NCDENR OLD UNLINED LANDFILL AUDIT CHECK LIST**

Audit Performed By: Math Cash / Tim Grant Date: 4/7/11

**1.0 Site Information**ID NUMBER: NONCD0000666SITE NAME: Dupont Dump

LOCATION: 0.12 mi west of intersection of Mt. Misery Rd (SR 1426) and  
 Cedar Hill Rd (SR 1430), on north side of Cedar Hill, next to  
 Robinson Cemetery.

COUNTY: Brunswick

SITE SIZE: \_\_\_\_\_ acres

PROPERTY SIZE: 6.05 acresDATE OPENED: -1971

DATE CLOSED: \_\_\_\_\_

OWNER(S): E.G. Dale - 01700036 Town of Navassa - 0170003611OWNER CONTACT: Mr. E.G. Dale Mayor Eulis Willis

OWNER ADDRESS: P.O. Box 157 334 Main St.  
Navassa, NC 28451 Navassa, NC 28451

OWNER TELEPHONE NUMBER: (910) 371-6587 (910) 371-2432Date Access Permission Granted: 4/4/2011 3/8/2011Permission Granted by:   Phone \_\_\_\_\_ Writing \_\_\_\_\_*If permission is not granted the MM&A PM must contact the DWM.*TAX PARCEL No./PIN: 01700036 0170003611DEED REFERENCE: DB 0262 PG 0490 DB 2201 PG 385

COORDINATES (at point of entrance to Site):

STATE PLANE COORDINATES (SPC); NAD83, Meters

X: 696863.56 ; Y: 60842.72

DECIMAL DEGREES (DD); WGS 84

Lat.: N 34.29470 ; Long.: W 78.05216

2.0 Areas of Note

- mounds of uncovered debris, including yarn from Dupont Corp.
- decomposing plastic drums on site
- household waste

3.0 Site Location Research Summary

3.1 Site Summary

3.1.1 Site Ownership and Dates of Operation

(Though this information is included in section 1.0, it may be useful to make notes regarding deeds in this area)

opened in 1971, owned by Mr. E.G. Dale through dumping operations.

3.1.2 Site Location

Nearest Intersection and Distance: 0.12 mi west of intersection of Mt. Misery Rd. and Cedar Hill Rd.

Distance from Center of Town: 3.8 mi @ 320°

Other Pertinent Location Info.: east of Robinson Cemetery



3.1.3 General Site Description

Site Shape: polygonal

Location of Disposal Area Relative to Property: encompasses west/south west portions

Topography of Site and Property: relatively flat, sloping towards wetlands to north of site.

3.2 Site And Property Conditions

3.2.1 Structures on the Property

Buildings on Property:  Yes  No

Number of Buildings: \_\_\_\_\_ Type of Building: \_\_\_\_\_

Building Use: \_\_\_\_\_ Type of Building: \_\_\_\_\_

Construction: \_\_\_\_\_ Square Footage: \_\_\_\_\_

Stories: \_\_\_\_\_ Approx. Dimensions: \_\_\_\_\_

Approx. Age: \_\_\_\_\_

Building Exterior Condition: \_\_\_\_\_

Building Interior Condition: \_\_\_\_\_

Odors: \_\_\_\_\_

Spillage: \_\_\_\_\_

House Keeping: \_\_\_\_\_

Potential Asbestos: \_\_\_\_\_

Environmental Concerns Associated with Building: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**3.2.2 Current Property Usage** (e.g. residential, church, school, agricultural, business, other)

wooded, undeveloped

**3.2.3 Water Supply Wells and Intakes (on property)**

no water supply wells observed, no service observed

(If no well houses are observed, note the presence/absence of fire hydrants on the site)

**3.2.4 Surface Water Features** (e.g. streams, lakes, ponds, wetlands, rivers, etc.)

marshy wetlands to the north which feed Indian Creek

**3.2.5 Disposal Area (Brief Description)**

wooded with dense underbrush, adjacent to cemetery and residences

**3.2.6 Disposal Area Conditions**

mounds of debris uncovered, including household waste, yarn from Dupont Plant, glass, large culvert pipe, asphalt, and plastic drums.

UST's: None observed  
AST's: none observed  
Drum Storage: none observed  
Erosion: n.o.  
Slope Failure: n.o.  
Leechate Seeps: n.o.  
Vegetation: scrub brush and saplings  
Settling: n.o.  
Odor: faint chemical odor  
Stained Soil: n.o.

**3.2.7 Evidence of Human Activity**

Automobile Traffic: n.o. Industrial Activity: n.o.  
Burning: n.o. Dumping: obvious mounds of debris  
Other (Describe): small path runs into center of disposal area from residential lot.

**3.2.8 Potential Landfill Gas Migration Pathways**

Underground Utilities: n.o. Building Foundations: n.o.  
Abandoned Wells: n.o.  
Other: \_\_\_\_\_

3.2.9 Physical Barriers

Earthen Berms: debris mounds Fencing: n.o.

Other: scrub brush and saplings prevent vehicle access

3.2.10 Other Pertinent Data (Include coordinates of any environmental concern)

storage of large reinforced concrete pipe, sizes range from 36" to 72"

3.3 Vicinity Conditions

3.3.1 Structures Located within 50 Feet of the Site

Buildings Within 50' of Site:  Yes  No

Number of Buildings: \_\_\_\_\_ Type of Building: \_\_\_\_\_

Building Use: \_\_\_\_\_ Type of Building: \_\_\_\_\_

Construction: \_\_\_\_\_ Square Footage: \_\_\_\_\_

Stories: \_\_\_\_\_ Approx. Dimensions: \_\_\_\_\_

Approx. Age: \_\_\_\_\_

Building Exterior Condition: \_\_\_\_\_

Building Interior Condition: \_\_\_\_\_

Odors: \_\_\_\_\_

Spillage: \_\_\_\_\_



House Keeping: \_\_\_\_\_

Potential Asbestos: \_\_\_\_\_

Environmental Concerns Associated with Building: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**3.3.2 Vicinity Water Supply Wells and Intakes**

water wells observed in vicinity residences along with hydrants along Cedar Hill Rd. Marshy wetlands to north which feed Indian Creek.

**3.3.3 Current Land Usage**

Properties:

Type/Use:

North: wooded; undeveloped

South: sparse residential

East: wooded; undeveloped



West: cemetery, sparse residential

Environmental Concerns Related to Adjacent or Surrounding Properties:

potential water table contamination

3.3.4 Surface Water Features (e.g. streams, lakes, ponds, wetlands, rivers, sinkholes)

wetlands to the north which feed Indian Creek.

Summary of On-Site Environmental Concerns:

- large amount of uncovered debris
- potential for debris to invade wetlands to the north
- Dupont yarn of unknown composition buried in mounds on site.



## **APPENDIX E**

### *Aerial Photographs*

Brunswick County Soil and Water Conservation District, 1956

Brunswick County Soil and Water Conservation District, 1966

Brunswick County Soil and Water Conservation District, 1938

Brunswick County Soil and Water Conservation District, 1949

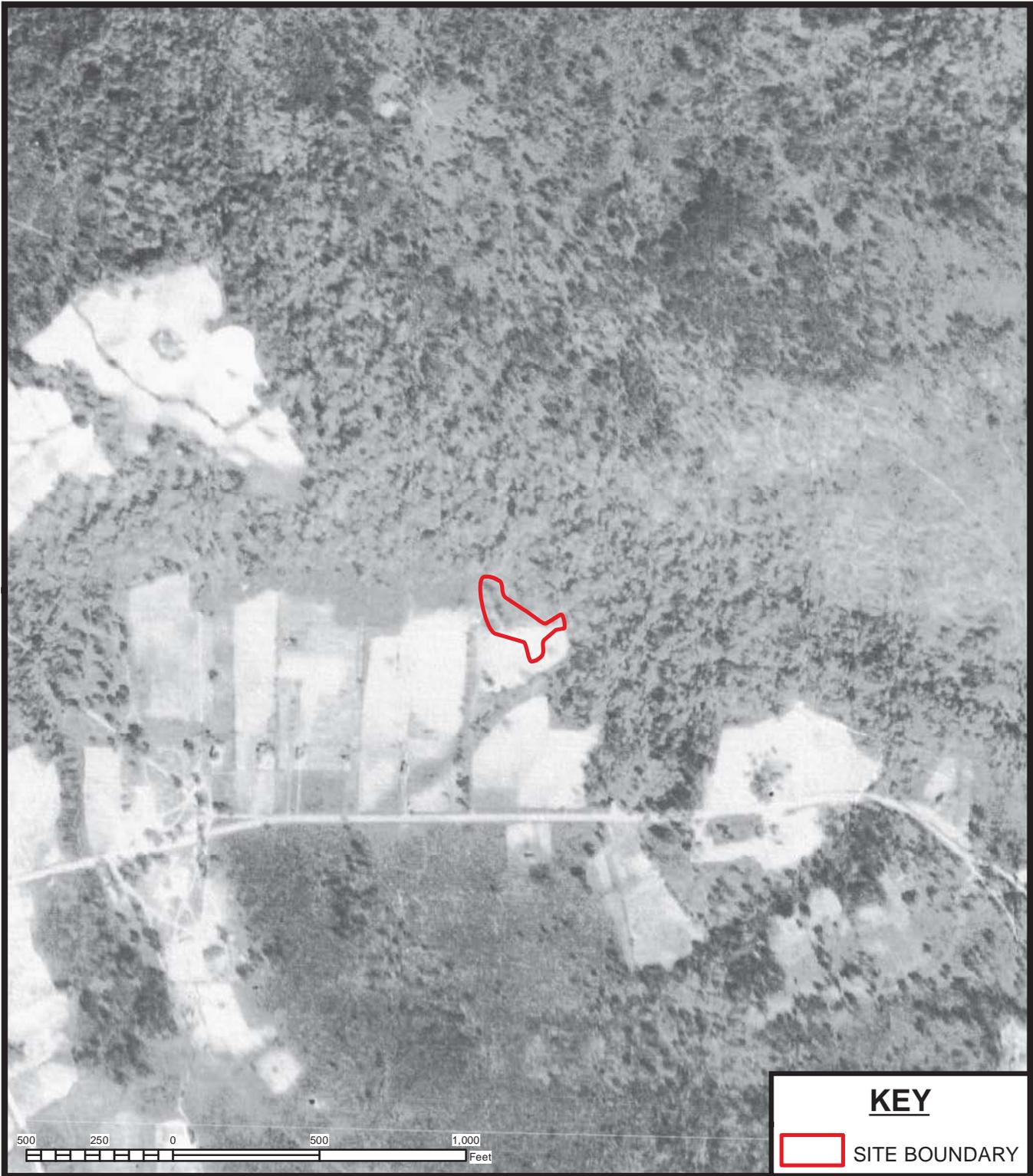
Brunswick County Soil and Water Conservation District, 1972

Brunswick County Soil and Water Conservation District, 1982

United States Geological Survey, 1998

United States Department of Agriculture, Aerial Photography Field Office, 2005

United States Department of Agriculture, Aerial Photography Field Office, 2010



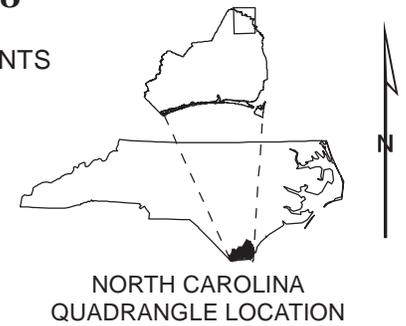
Prepared by:  
**MARSHALL MILLER & ASSOCIATES**  
 NCUL163 05/2011

## AERIAL PHOTOGRAPH 1938

NCDENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA

1 inch = 500 feet

BRUNSWICK COUNTY  
 LELAND QUAD



SOURCE:  
 Brunswick County Soil and Water Conservation District  
 Bolivia, NC  
 Frame AOH-40-30 (S-2)



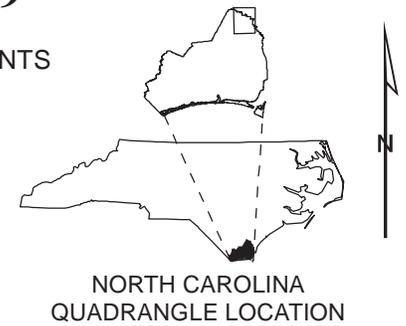
Prepared by:  
  
 NCUL163 05/2011

## AERIAL PHOTOGRAPH 1949

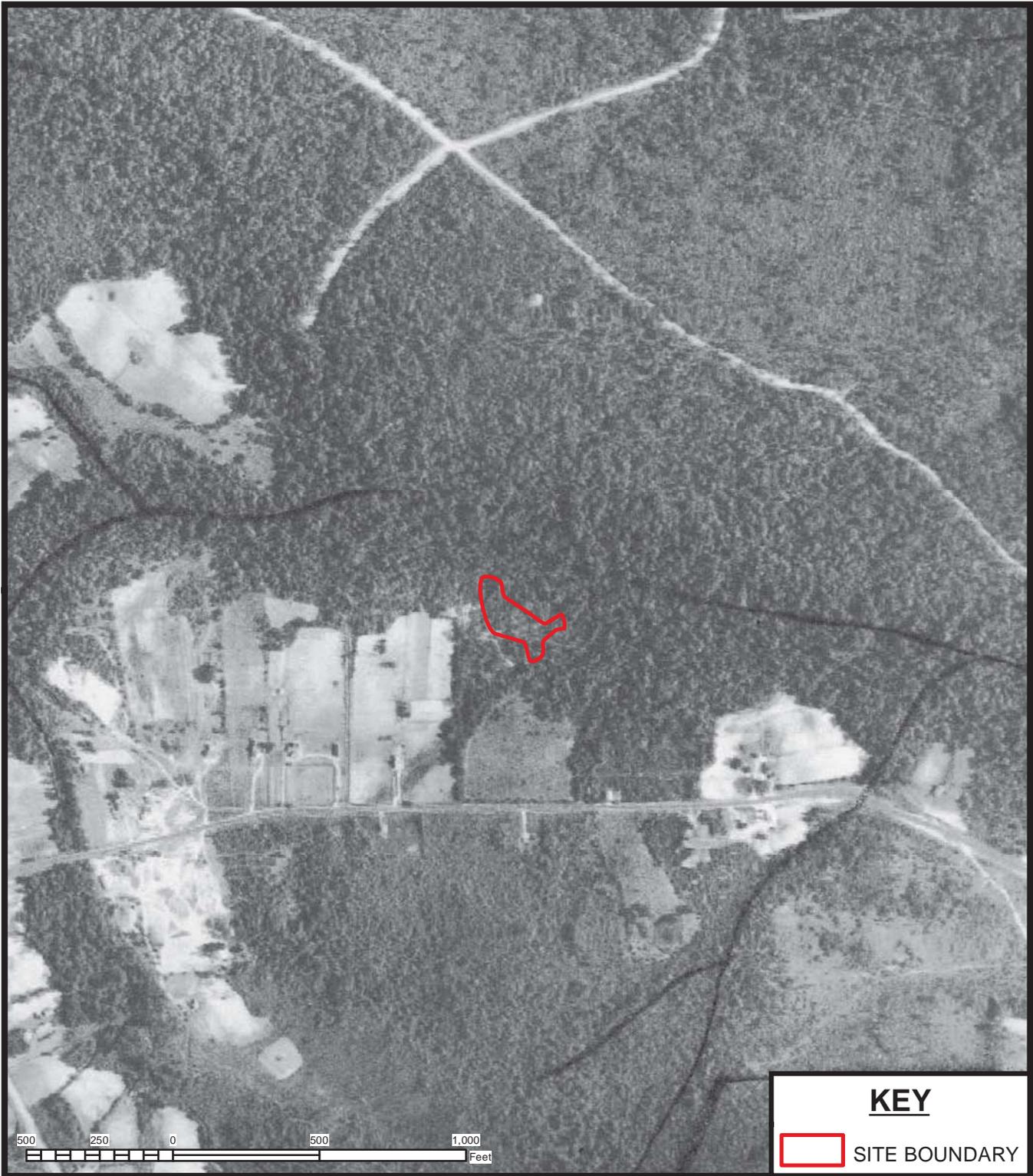
NCDENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA

1 inch = 500 feet

BRUNSWICK COUNTY  
 LELAND QUAD



SOURCE:  
 Brunswick County Soil and Water Conservation District  
 Bolivia, NC  
 Frame AOH-8F-66 (R-2)



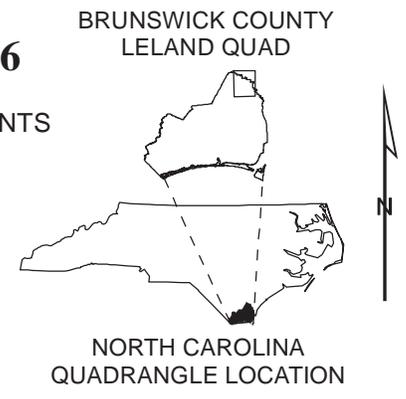
Prepared by:  
  
 NCUL163 05/2011

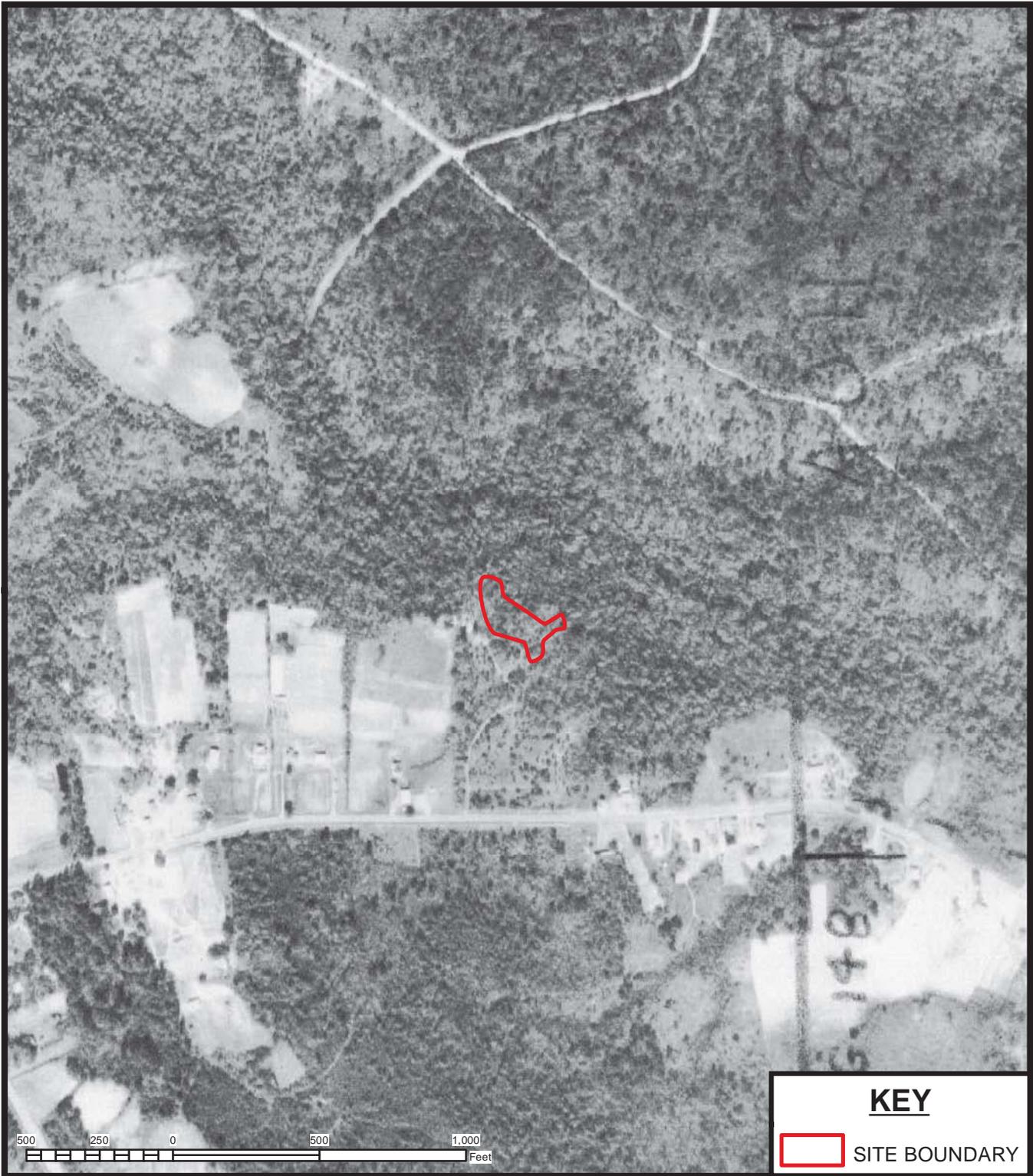
## AERIAL PHOTOGRAPH 1956

NC DENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA

1 inch = 500 feet

SOURCE:  
 Brunswick County Soil and Water Conservation District  
 Bolivia, NC  
 Frame AOH-6N-24 (R-2)





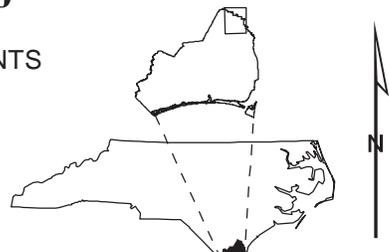
Prepared by:  
  
 NCUL163 05/2011

## AERIAL PHOTOGRAPH 1966

NC DENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA

1 inch = 500 feet

BRUNSWICK COUNTY  
 LELAND QUAD



NORTH CAROLINA  
 QUADRANGLE LOCATION

SOURCE:  
 Brunswick County Soil and Water Conservation District  
 Bolivia, NC  
 Frame AOH-266-76 (R-2)



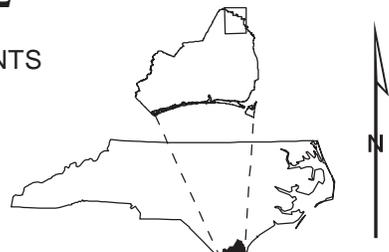
Prepared by:  
  
 NCUL163 05/2011

## AERIAL PHOTOGRAPH 1972

NCDENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA

1 inch = 500 feet

BRUNSWICK COUNTY  
 LELAND QUAD



NORTH CAROLINA  
 QUADRANGLE LOCATION

SOURCE:  
 Brunswick County Soil and Water Conservation District  
 Bolivia, NC  
 Frame 37019 172-7 (R-3)



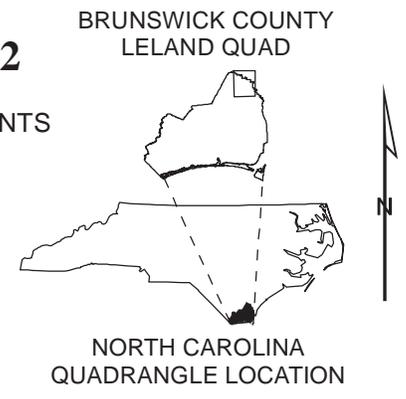
Prepared by:  
  
 NCUL163 05/2011

## AERIAL PHOTOGRAPH 1982

NC DENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA

1 inch = 500 feet

SOURCE:  
 Brunswick County Soil and Water Conservation District  
 Bolivia, NC  
 Frame 779-65





Prepared by:  
  
 NCUL163 05/2011

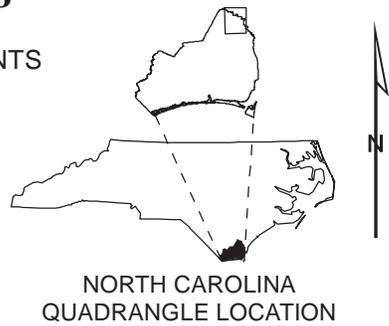
SOURCE:  
 US Geological Survey  
 Digital Orthophoto Quarter Quadrangle  
 Leland SE, NC

## AERIAL PHOTOGRAPH 1998

NCDENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA

1 inch = 500 feet

BRUNSWICK COUNTY  
 LELAND QUAD



NORTH CAROLINA  
 QUADRANGLE LOCATION



Prepared by:  
**MARSHALL MILLER & ASSOCIATES**  
 NCUL163 05/2011

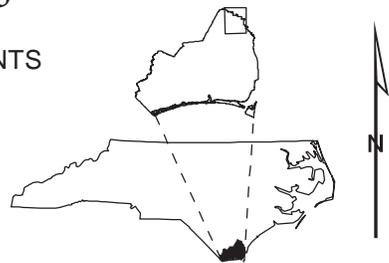
## AERIAL PHOTOGRAPH 2005

NC DENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA

1 inch = 500 feet

SOURCE:  
 US Dept of Agriculture  
 Aerial Photography Field Office  
 2005 National Agricultural Imagery Program

BRUNSWICK COUNTY  
 LELAND QUAD



NORTH CAROLINA  
 QUADRANGLE LOCATION



Prepared by:  
  
 NCUL163 05/2011

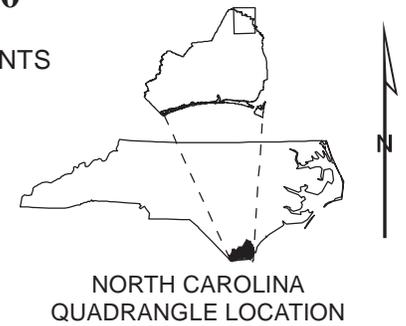
## AERIAL PHOTOGRAPH 2010

NC DENR/OLD UNLINED LANDFILL ASSESSMENTS  
 DUPONT DUMP  
 NONCD0000666  
 NAVASSA, BRUNSWICK COUNTY,  
 NORTH CAROLINA

1 inch = 500 feet

SOURCE:  
 US Dept of Agriculture  
 Aerial Photography Field Office  
 2010 National Agricultural Imagery Program

BRUNSWICK COUNTY  
 LELAND QUAD



NORTH CAROLINA  
 QUADRANGLE LOCATION

**APPENDIX F**  
*Certification*

**CERTIFICATION**

Document Name: Site Location Research Summary

Site Name: Dupont Dump

Site ID: NONCD0000666

Task Order: 63

I certify that, to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete.

Timothy D. Grant, P.G.

Timothy Grant  
Signature

6-7-11  
Date

Before me personally appeared Timothy D. Grant to me known and known to me to be the person described in and who executed the foregoing instrument, and acknowledge to and before me that Timothy D. Grant executed said instrument for the purposes therein expressed.

Witness my hand and official seal this 7<sup>th</sup> day of June, 2011.

Kelly R. Lilley  
Notary Public  
North Carolina  
State Of

8/4/12  
My Commission Expires On  
Wake  
County Of

