

**SITE SUMMARY REPORT
Camp Davis Landfill
NONCD 0000683
Onslow County**

**North Carolina Highway 50
Holly Ridge, North Carolina 28445**

Senate Bill 1492
State of North Carolina
State Contract N06009S
Schnabel Project No. 06210002.35

January 18, 2011

Prepared for:

North Carolina Department of Environment and Natural Resources
Superfund Section
Inactive Hazardous Sites Branch
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Prepared by:

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SITE LOCATION RESEARCH SUMMARY

ID NUMBER: NONCD 0000683
SITE NAME(S): Camp Davis Landfill
LOCATION: NC Highway 50, Holly Ridge, NC 28445
COUNTY: Onslow

LANDFILL SIZE: 19.4 acres (Disposal Area enclosed by GPS points obtained during site visit and perimeter identified from aerial photographs)
PROPERTY SIZE: 37,125.2 acres (from Onslow County GIS Department)
DATE OPENED: Approximately 1930s (data obtained from Mr. Tom Rollins, adjacent property owner)
DATE CLOSED: Approximately 1940s (data obtained from historical aerial photographs and Mr. Tom Rollins)
CURRENT OWNER: United States of America, Department of Defense
CURRENT OWNER CONTACT: Mr. Dave Lundquist, Environmental Engineer
CURRENT OWNER ADDRESS: EQB/EMD/I&E, MCB, Camp Lejeune, NC 28542
CURRENT OWNER TELEPHONE NUMBER: (910) 451-9421
TAX PARCEL No./PIN No.: 434100465693
DEED REFERENCE: Deed Book 1039, Page 636

COORDINATES: (at Site entrance from handheld GPS)
State Plane Coordinates (NAD83, meters): Northing: 84668 Easting: 741678
Latitude: N34° 30' 16.6" Longitude: W77° 33' 42.1"

AREAS OF NOTE

- 1) There is evidence of human activity on the Disposal Area as indicated by recently deposited cans and bottles along the western perimeter.
- 2) Hummocky topography and trench features were observed on the northern part of the Disposal Area.
- 3) A marshy area with standing water was observed on the eastern portion of the Disposal Area. Ditches with standing water were observed on the northern and eastern Site boundaries.
- 4) Exposed debris observed on the Disposal Area consisted of tires, white goods, and fabric.
- 5) The disposal material was generated and placed in the Disposal Area by the Camp Davis personnel and residents. The types and quantity of the disposal material are unknown.
- 6) The site is currently used for U.S. Marine training exercises.

SITE SUMMARY

1.0 SITE CONDITIONS

This section discusses the observed conditions on the Site, as defined as the property (Tax Parcel #434100465693) on which the Disposal Area is located. The Disposal Area is defined as the area observed or reported to have been used for waste placement or burial. At this site, the northern and eastern Disposal Area perimeters could not be identified, so the Site Area boundary and Disposal Area perimeter on those two sides are considered to be the same. The southern perimeter of this area is the inferred limit based on a review of historical aerial photographs. The western perimeter could not be identified; therefore, the paved road located west of the Disposal Area and the Disposal Area perimeter are considered to be the same. The site visit was conducted on November 10, 2010. Photographs illustrating site conditions are included in Appendix D.

The Site is located in Onslow County, near Holly Ridge, NC. Driving directions to the Site from the intersection of NC Highway 50 and US Highway 17 are as follows:

1. Drive north on NC Highway 50 approximately 0.75 miles.
2. The Site entrance is on the left behind a locked gate

1.1 On-site Structures

No on-site buildings or other structures were observed during the site visit.

1.2 Current Site Usage

According to Mr. David Lundquist, Environmental Engineer, the Site is used for marine training exercises. Observed evidence of recent human activity included recently deposited cans and bottles.

1.3 On-Site Water Supply Wells and Intakes

No on-site water supply wells were observed on the Site during the site visit. No water meters or fire hydrants were observed on the Site during the site visit.

1.4 Surface Water Features

A marshy area with standing water is located near the eastern perimeter of the Disposal Area. The area is approximately 0.9 acres in size and was observed during the Site visit. Trees and vegetation were growing in the water. The water was clear and approximately two to eighteen inches in depth (Photos 19 and 20).

Ditches with standing water were located along northern and eastern perimeters of the Disposal Area (Photo 6).

1.5 Disposal Area

Access to the Disposal Area is from NC Highway 50 along a dirt road and through a gate (Photo 1). The Disposal Area occupies 19.4 acres based on the estimated Disposal Area perimeter shown on Figures 1 through 3.

The ground surface of the Disposal Area slopes relatively uniformly to the north. A comparison of the topography from the 1981 USGS 7.5 minute topographic quadrangle map (2 meter contours, based on 1977 aerial photography) with the 2005 topographic map from NCDOT (2 foot contours), did not show observable differences in elevation or topographic patterns.

According to Mr. Tom Rollins, adjacent property owner, the estimated years of operation were from the 1930s to the 1940s, so the 1981 USGS represented the land surface after the disposal period. Differences between elevations on the maps may reflect actual elevation changes or may

be apparent differences due to the different map making methods. Differences in scale and methods of mapping are not sufficient to evaluate some changes in topography.

GPS coordinates were taken of the Disposal Area perimeter. When brush and steep topography prevented an accurate GPS coordinate from being obtained, the coordinates were taken from as near to the visible Disposal Area perimeter as was practical. The approximate Disposal Area perimeter is illustrated on the figures and on aerial photographs in Appendix E. A table of GPS coordinates for the Site entrance and the Disposal Area perimeter is presented in Table 1. The Disposal Area perimeter location is approximate and is based on visual observations made at the time of the site visit and interpretation of aerial photographs. Figures 4 and 5 show LiDAR shaded relief superimposed on the Disposal Area.

1.6 Disposal Area Conditions

The Disposal Area was covered with grass, brush, and pine straw. A marsh with standing water approximately 0.9 acres in size is located on the eastern portion of the Disposal Area (Photos 19 and 20). The southern portion of the Disposal Area was covered with grass and brush. Visible debris, including white goods, automobile tires, and fabric were observed within the southern portion and near the western perimeter of the Disposal Area during the site visit. Brush and trees of up to 24 inches in diameter and a ground cover of pine straw were present on the northern and western portions of the Disposal Area, obscuring the surface. Trench features were present on the northern half of the Disposal Area (Photos 16 and 17). The trench features were uniform in size and were oriented in a north-south direction. Ditches with standing water were present on the northern and eastern perimeters of the Disposal Area.

The observed Disposal Area was on a single tax parcel, Parcel Number 434100465693. Due to the heavy groundcover of pine straw, the Disposal Area perimeter on the northern half of the Disposal Area was not visually evident; therefore, the property boundaries were selected as the Disposal Area perimeter. The western perimeter was bordered by a paved, unnamed road. No evidence of disposal was observed west of the unnamed road. The southern perimeter was not

easily identified during the site visit and is based on the historical aerial photographs. Coordinates of points on the estimated perimeter of the Disposal Area are listed on Table 1.

No notable erosion, depressions, offensive odors, stained or discolored soils, or slope failures were observed during the site visit.

1.7 Evidence of Human Activity

Several relatively unweathered, empty cans and bottles were visible, suggesting recent human activities. According to Mr. David Lundquist, the site is used by the US Marines in training exercises.

1.8 Potential Landfill Gas Migration Pathways

There were no visible or evident potential gas migration pathways such as stormwater drain systems, underground utilities, septic systems, or drain fields observed on the Disposal Area or on the Site. Mr. Larry Willaford, Town of Holly Ridge Planner, stated that to his knowledge there were no underground utilities on the Site.

1.9 Physical Barriers

Site access is provided by a dirt road from NC Highway 50. Site access for vehicles is blocked by a lockable cable gate across the driveway. Physical barriers were not observed along the perimeters.

1.10 Other Pertinent Information

Some history of the Site was obtained during conversations with persons familiar with the Site. The information obtained indicates that:

- Mr. Tom Rollins, adjacent property owner, stated that:

- The Site was used in the 1930s and 1940s.
- The disposal material placed at the Site was generated by Camp Davis.
- The disposal material, to his knowledge, did not contain munitions.
- The Site is owned by the United States Department of Defense.
- Mr. David Lundquist, Camp Lejune Environmental Engineer, stated that:
 - He was unaware of a Disposal Area on the Site.
 - He gave verbal permission to access the Site.
 - The U.S. Marines use the site for training exercises.
- Mr. Larry Willaford, Town of Holly Ridge Planner, stated that:
 - He was unaware of a Disposal Area located on the Site.
 - He stated, to his knowledge, no underground utilities were located on the Site.
 - He stated to his knowledge that no waste was placed at the site after 1983.
 - He stated that there were no residences/developed areas within 1,000 feet of the Site and that the developed areas are serviced by municipal water.
- Mr. John Mariano, Town of Holly Ridge Police Chief, stated that:
 - He was unaware of a Disposal Area located on the Site.

Notes from conversations with people familiar with the site are included in Appendix C. The information obtained from these conversations has not been verified or confirmed.

2.0 VICINITY CONDITIONS

This section describes the observed general conditions in the vicinity of the Site, as defined by an area within 1,000 feet of the perimeter of the Disposal Area. Photographs illustrating vicinity conditions are included in Appendix D.

2.1 Structures Located on Adjacent Properties

Structures described in this section are located on adjacent properties that have a shared property boundary with the Site and are within 1,000 feet of the Disposal Area boundary.

Buildings are apparent on the adjacent southern property on the 2001 and 2006 aerial photographs (Figures E-8 and E-9), but these buildings were not observed on the adjacent property during the site visit. According to NC DENR, the adjacent property owner stated that there is a barn/shed on the site, and the property is leased to a landscaping company who uses the property to store large equipment.

2.2 Water Supply Wells and Intakes

There were no observed residences, buildings, water supply wells or well houses within 1,000 feet of the Disposal Area perimeter. However, a barn/shed is located on the southern adjacent property.

Water supply wells or well houses were not observed at residences within a 1,000-foot radius of the Disposal Area. No residences were located within 1,000 feet of the Site. Fire hydrants were not observed within 1,000 feet of the Site. According to Mr. Larry Willaford, Town of Holly Ridge Planner, the developed surrounding areas are not within 1,000 feet of the Disposal Area perimeter. Those developed areas outside the 1,000-foot radius are served by a public water supply.

No public water supply wells or intakes were listed on the NCDENR Public Water Supply Section's database (as of January 2010) within two miles of the Disposal Area.

2.3 Current Land Usage

Property in the vicinity of the Site is primarily wooded. Land usage at the time of the site visit within 1,000 feet of the Disposal Area perimeter was:

- North:** Wooded, apparent down-gradient direction from the Site.
- South:** Wooded, apparent up-gradient direction from the Site.
- East:** Wooded, apparent side-gradient direction from the Site.
- West:** Wooded, apparent side-gradient direction from the Site.

2.4 Surface Water Features

No water bodies were identified within 1,000 feet of the Disposal Area.

3.0 AERIAL PHOTOGRAPHY REVIEW

Aerial photographs were reviewed for the years 1949, 1960, 1964, 1970, 1980, 1993, 2001 and 2006. The estimated years of operation of the Site were from the 1930s to the 1940s. Observations of each of the photographs are included in the following table. Copies of the aerial photographs are included in Appendix E. Some aerial photographs are reproductions of original aerial photographs and have some distortion; therefore, overlaid Disposal Area Boundaries and other features may vary from their actual locations. Hand drawn lines and notations on the photographs denote soils mapping information drawn on the original photographs by the USDA NRCS.

Flight Year	Observations	Source
1949	The Disposal Area is covered with vegetation with the exception of the north central and south central portions of the Site. These areas are cleared. Several buildings are located within 1,000 feet of the Disposal Area. The marshy area observed on the eastern portion of the Disposal Area is not present.	1
1960	The Disposal Area is covered with low vegetation. The marshy area is present on the eastern portion of the Disposal Area. The surrounding properties are covered with low vegetation or trees. The buildings that were present in the 1949 aerial are no longer present. The marshy area is present.	1
1964	The Disposal Area is covered with low vegetation. The areas west and east of the Disposal Area are sparsely cleared.	1
1970	The Disposal Area and surrounding properties are covered with dense vegetation.	1
1980	The Disposal Area and surrounding properties are densely vegetated.	1
1993	The Disposal Area is densely vegetated. The property to the west is cleared.	1
2001	The Disposal Area and surrounding properties are densely vegetated. Buildings are present on the adjacent property southeast of the Disposal Area.	2
2006	The Disposal Area is densely vegetated. Buildings are present on the adjacent property southeast of the Disposal Area. The aerial photograph shows conditions representative of those observed during the visit.	2

Sources of aerial photos:

- 1) USDA NRCS office in Jacksonville, NC
- 2) NC Department of Transportation Photogrammetry Unit

This report was prepared specifically for the use of NC DENR Inactive Sites Branch under the Scope of Work defined in our contract dated October 26, 2005. Use of this document for other purposes or by other parties is at the sole risk of the user.

TABLE 1
Tabulated GPS Coordinates

Point	State Plane Coordinates (meters)		Latitude (deg, min, sec)	Longitude (deg, min, sec)
	Northing	Easting	N	W
Disposal Area Entrance	84668	741678	34 30 16.6	77 33 42.1
P-1	84514	741759	34 30 11.6	77 33 39.0
P-2	84444	741782	34 30 9.3	77 33 38.1
P-3	84370	741739	34 30 6.9	77 33 39.9
P-4	84349	741718	34 30 6.2	77 33 40.7
P-5	84262	741683	34 30 3.4	77 33 42.1
P-6	84241	741670	34 30 2.8	77 33 42.6
P-7	84222	741652	34 30 2.2	77 33 43.3
P-8	84204	741626	34 30 1.6	77 33 44.4
P-9	84461	741507	34 30 10.0	77 33 48.9
P-10	84529	741460	34 30 12.2	77 33 50.7

Notes:

- 1) Points obtained during site visit using a WAAS enabled Thales MobileMapper CE, and based on interpretation of aerial photographs, and property boundaries.
- 2) All points in NAD83 datum.

TABLE

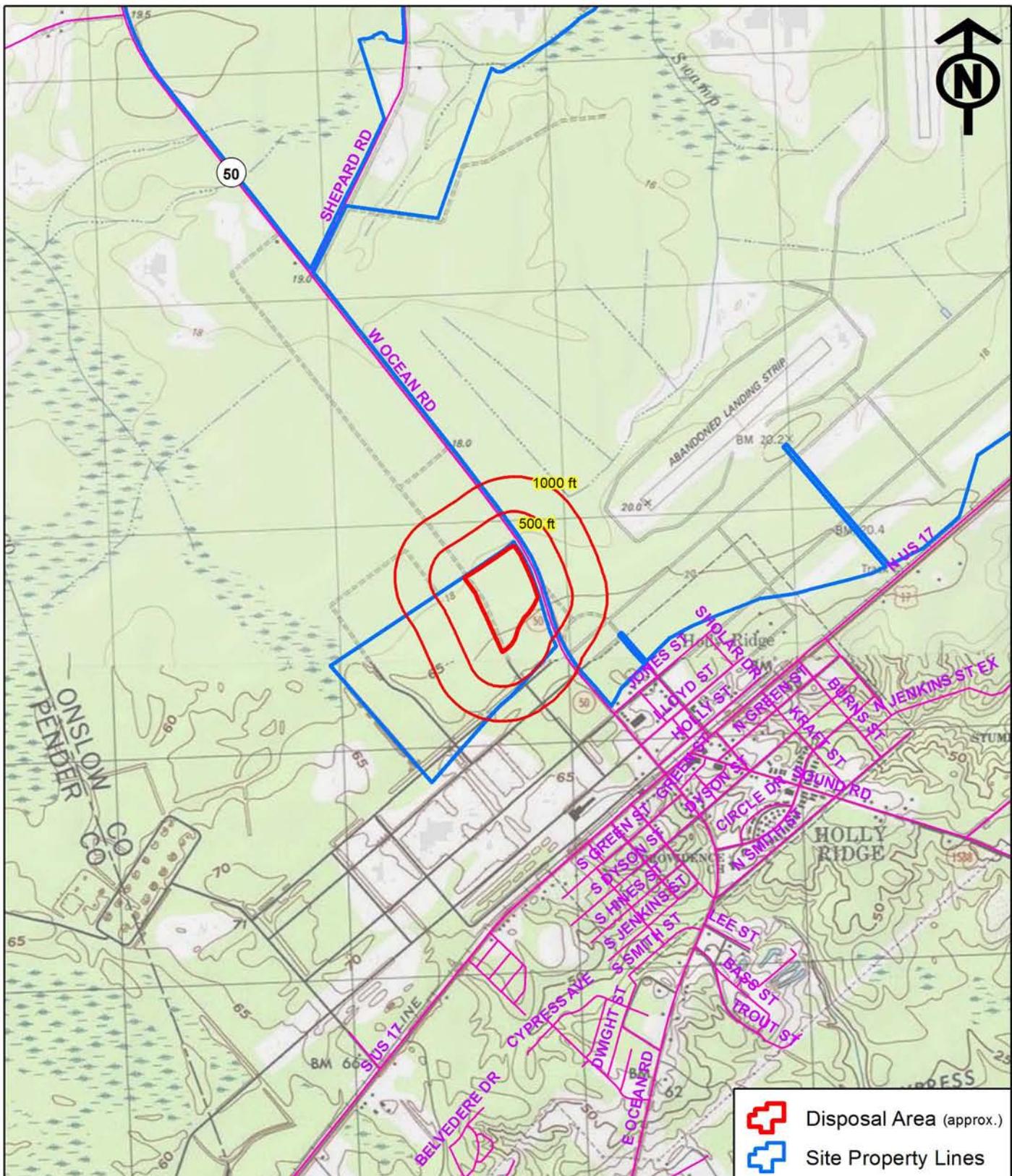
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P-5	84262	741683	34 30 3.4	77 33 42.1
P-6	84241	741670	34 30 2.8	77 33 42.6
P-7	84222	741652	34 30 2.2	77 33 43.3
P-8	84204	741626	34 30 1.6	77 33 44.4
P-9	84461	741507	34 30 10.0	77 33 48.9
P-10	84529	741460	34 30 12.2	77 33 50.7

Notes:

- 1) Points obtained during site visit using a WAAS enabled Thales MobileMapper CE, and based on interpretation of aerial photographs, and property boundaries.
- 2) All points in NAD83 datum.

FIGURES

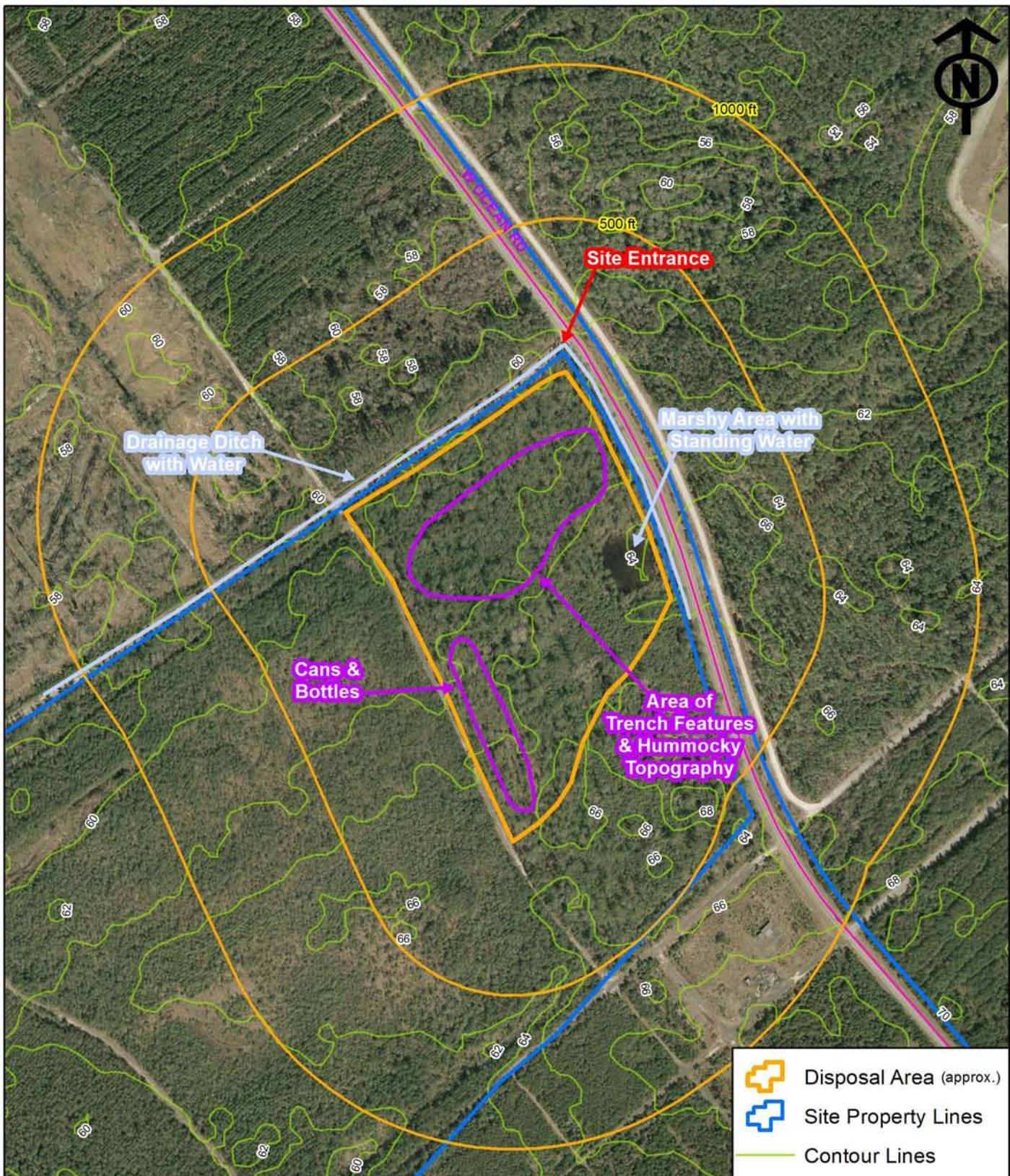


Source: 1. USGS 7.5' Quadrangle, Folkstone NC, 1981
 Topography Based on Aerial Photos Taken 1977
 Contour Intervals = 2 Meters

2,000 1,000 0 2,000
 Feet
 Scale: 1:24,000

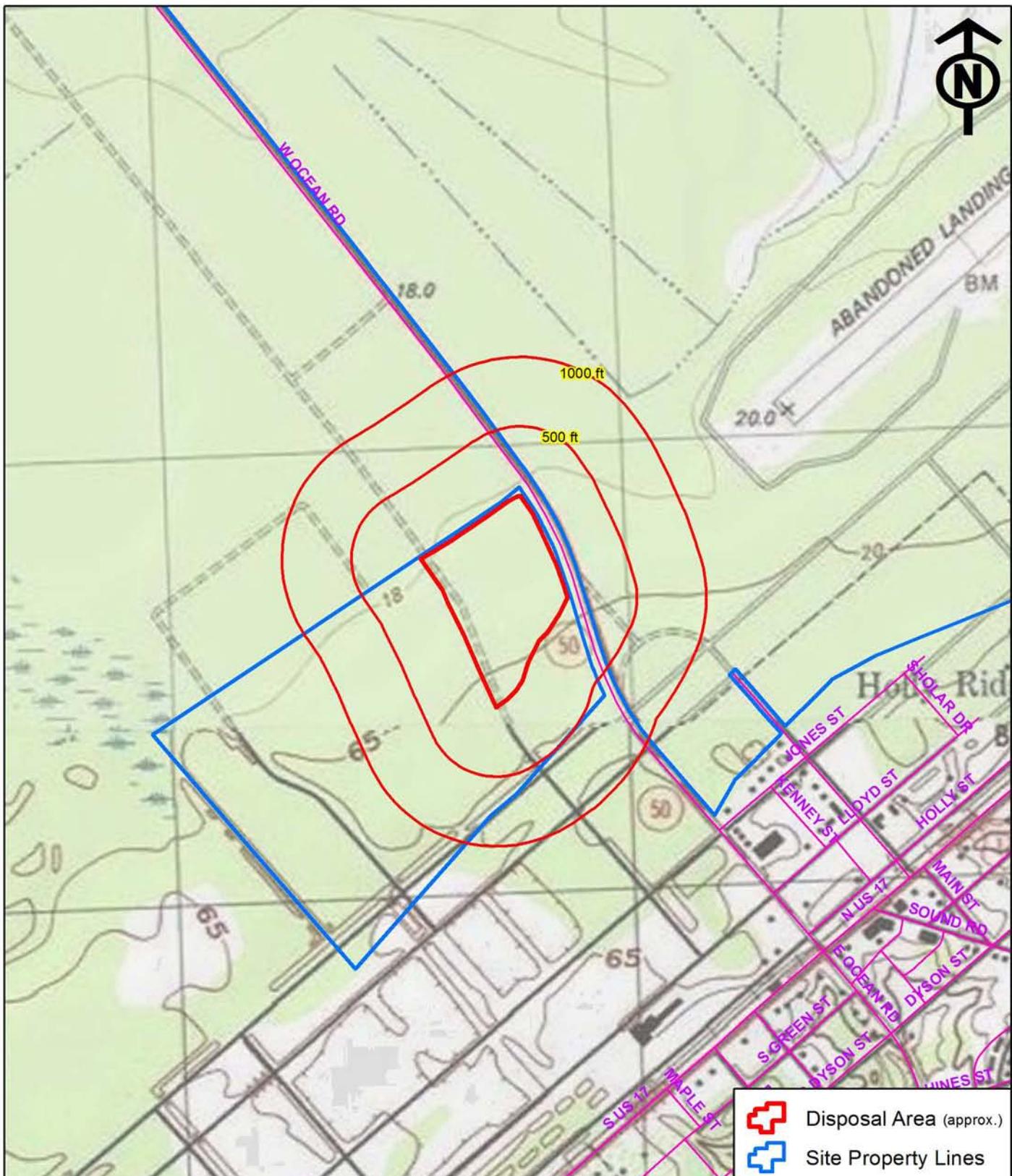
 Schnabel <small>ENGINEERING</small>	<small>NCDENR</small> <small>OLD LANDFILL ASSESSMENT</small>	<small>USGS TOPOGRAPHIC MAP</small>
	<small>Camp Davis Landfill NONCD0000683</small> <small>Onslow County, NC</small>	

Figure 1



 Schnabel <small>ENGINEERING</small>	<small>NCDENR</small> <small>OLD LANDFILL ASSESSMENT</small>	<small>SITE MAP</small>
	<small>Camp Davis Landfill NONCD0000683</small> <small>Onslow County, NC</small>	

Figure 2

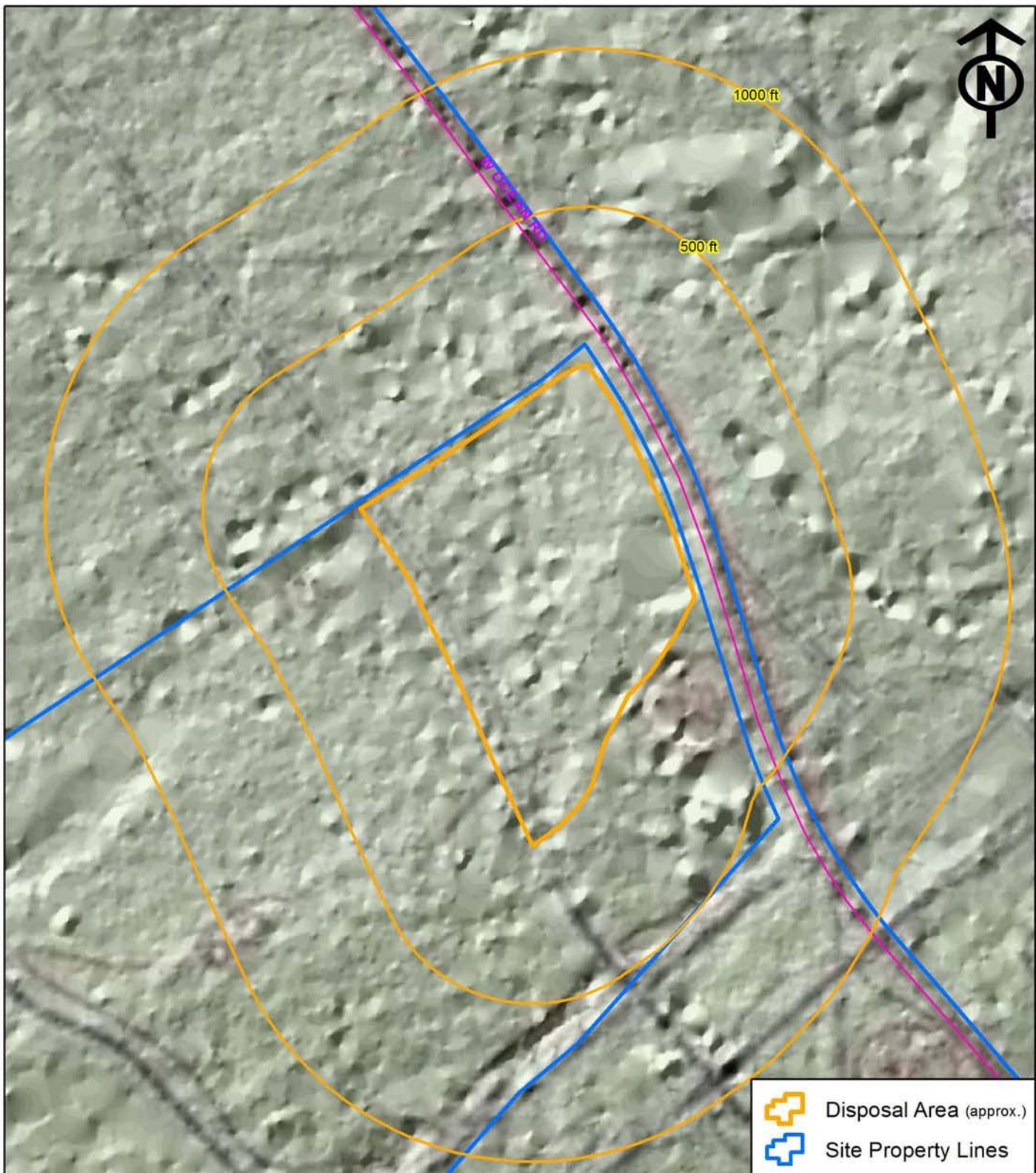


Source: 1. USGS 7.5' Quadrangle, Folkstone NC, 1981
 Topography Based on Aerial Photos Taken 1977
 Contour Intervals = 2 Meters

1,000 500 0 1,000
 Feet
 Scale: 1:12,000

 Schnabel <small>ENGINEERING</small>	NCDENR OLD LANDFILL ASSESSMENT	VICINITY MAP
	Camp Davis Landfill NONCD0000683 Onslow County, NC	

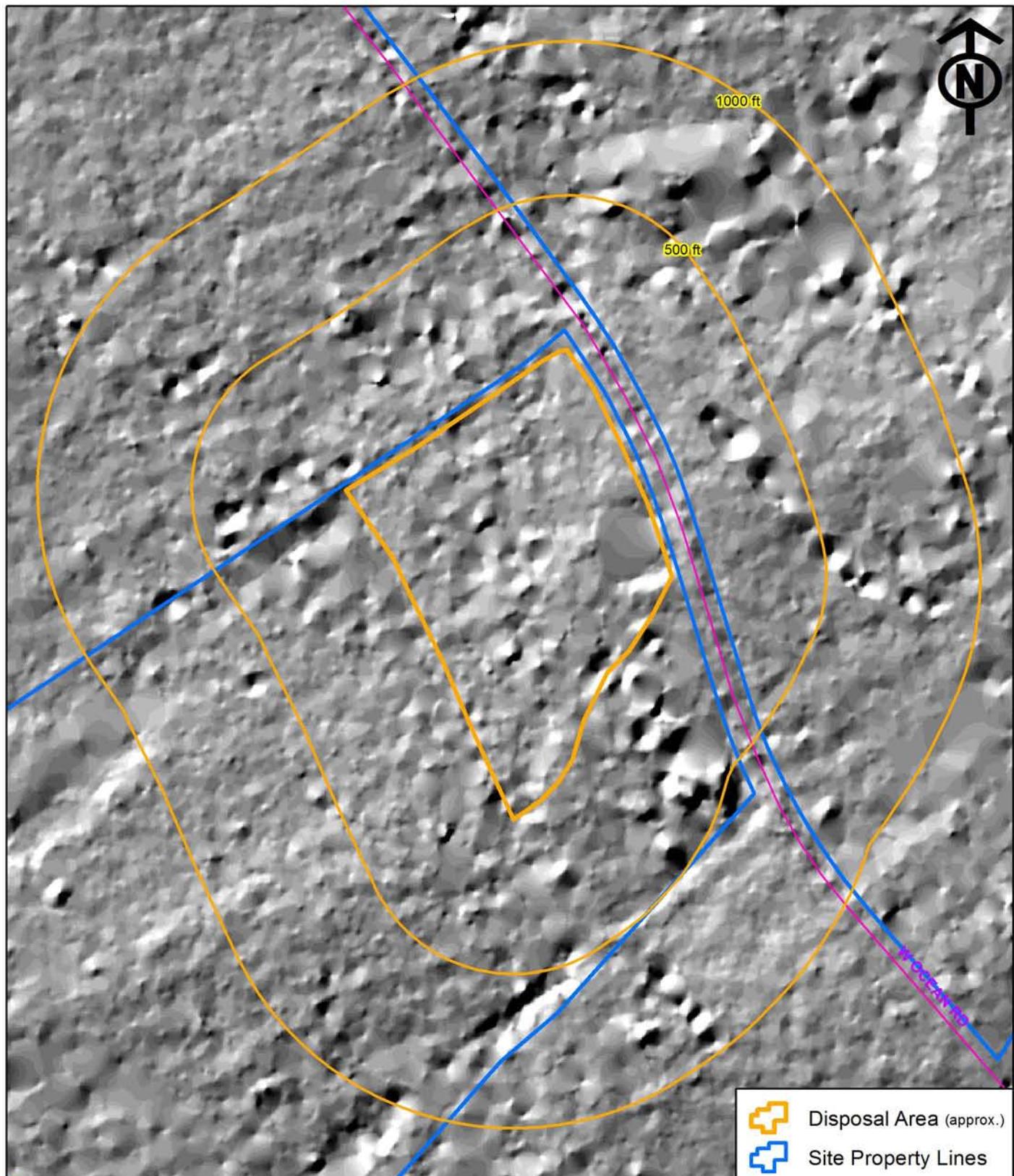
Figure 3



Source: 1. USGS 7.5' Quadrangle, Folkstone NC, 1981
 Topography Based on Aerial Photos Taken 1977
 Contour Intervals = 2 Meters
 2. Bare Earth LiDAR, Onslow County NC,
 NC FloodPlain Mapping (8/17/05)

450 225 0 450
 Feet

Scale: 1:5,400



APPENDIX A
FIELD RECONNAISSANCE SHEET

NCDENR Old Landfill Assessment

FIELD RECONNAISSANCE SHEET

Site visit performed by:

Date and time:

Weather:

Escort (with title and organization)

Project Task No.

Ben Bradley & Misti Benhabbat
October 10, 2010 1100
Sunny ~60°
Schnabel Project No.: 06210002. 35

Site Information

(Site Area: The property or properties on which the Disposal Area is located. If the Disposal Area boundary cannot be identified, then the Site Area and Disposal Area boundaries are the same.)

NCDENR ID No.	NONCD 0000682
Site Name:	Camp Davis Landfill
Site Address:	Highway 50
County:	Oncslow
Owner address:	FCIS IFE, PSC 20025 Camp Lejeune, NC
Owner phone number:	910 451-9461

On-Site Structures for Site Area including Disposal Area

Any buildings located onsite? Y or N Approximate age of building(s) _____

Location of building(s) _____

Building utilization (i.e. residential, retail store, barn, etc.) _____

Is building on a slab or is it a raised foundation with a crawl space? _____

Is there a water supply well at or near the building? _____

Are there any indications of former onsite buildings? NO _____

Any evidence of human activity? Y or N Describe in detail: Unpathed _____

Bottles

Current Use of Site and Disposal Areas

What is the current use of the site (residential, church, daycare, school, business, agricultural, etc.)?

Wooded - no use

What is the ground cover (grass, scrub trees, large trees, pasture, agricultural field, bare ground)?

grass, trees, large trees, leaves, pine straw

Available utilities on site and location:

Utility	Provided by	Location of Utility
Electricity	Y or N	
Natural Gas	Y or N	
Water	Y or N	
Sewer	Y or N	
Solid Waste	Y or N	

~~On-Site Water Wells~~

Well Number	Location	Working or Abandoned
Water Well(s)		

DRAINAGES

Location	Width (ft)	Stream Bed*	Flow*	Water Quality*
		*Mud, Sand, Gravel, Boulders, Combination	*Standing Water, Slow Flow, Fast Flow	*Clear, Cloudy, Muddy

STANDING WATER				
Location	Approx Size	Type*	Natural or Modified Topography?	Water Quality*
East	1 acre	Marsh	Natural	Clear
		*Swamp, Poor Drainage, Lake, Pond		*Clear, Cloudy, Muddy

General topography of the site (which way does surface water flow)?:

North

DISPOSAL AREA

(Disposal Area: The area observed or reported to have been used for waste placement or burial. The perimeter of this area is the observed limit of waste material based on field observations, or the inferred limit base on a review of historical aerial photographs.)

DISPOSAL AREA BOUNDARY				
Perimeter	Boundary Type	Visibility	Water Discharge?	Water Quality
Northern	Wooded	DTI		
Southern	II	V		
Eastern	II	DTI	Standing water	clear
Western	II	DTI		
	Wooded, Pasture, Residential, Creek, etc.	Clearly Visible, Visible, Difficult to Identify, Not Found	Seep, Standing Water, Flowing Water	Clear, Cloudy, Muddy

Disposal Area:

Names of adjacent roads: Highway 50

Access to Disposal Area: dirt road, gate from Hwy 50

General slope and topography of Disposal Area: N

Disposal Area Conditions

Describe the feature and location of any of the conditions observed. Take photographs of observed features. Note if feature not observed.

Disposal Area Ground Cover (grass, trees (include diameter), bushes, waste, litter, dirt, rock):

Trees (2-24) bushes, grass, leaves, pine straw

Erosion: _____

Cemetery: _____

Slope failure: _____

Seeps: _____

Odor: _____

Stained Soil: _____

Evidence of waste deposition based on topographic changes (depressions, holes, hummocky, piles of soil, berms):

Trenches & Hummocky on North 1/2

Exposed Debris: Fires, white goods, foliage

Physical Barriers at Disposal Area Boundary: _____

Potential Landfill Gas Migration Pathways: _____

Physical barriers to Site Area: _____

Physical barriers to Disposal Area: _____

Evidence of Human Activity: weathered bottles

Other site information which will help NCDENR prioritize the site:

Since the site was closed, the site area and disposal area have been used by whom and for what purpose?

Wooded

Vicinity Conditions

Vicinity Area: The area within 1,000 feet of the perimeter of the Disposal Area.

Adjacent and Adjoining Properties (note for ALL properties adjoining within 1,000 ft of perimeter of the Disposal Area):

Describe structure(s) on adjacent properties that have a shared property boundary with the Site.

No Structures

Are there fire hydrants and/or water meters present within 500 feet of the site? Y or N

Describe: _____

Are there fire hydrants and/or water meters present within 1,000 feet of the site? Y or N

Current Land Usage in Vicinity		
Direction	Description (i.e. wooded, residential, commercial)	Topographically Upgradient or Downgradient
North	Wooded	down
South	Wooded	cross
East	Wooded	
West	Wooded	✓

Describe properties in detail. Are they gasoline stations, industry, dry cleaners, landfills, junk yards, residences, office buildings, etc.?

Land use of the surrounding area as a whole: Commercial, Residential, Agricultural, Industrial, or Wooded (Circle answer)

Surface Water Features:

Are there any surface water bodies (i.e. ponds, creeks, swamps, lagoons) within 500 or 1,000 feet of the site? Y or N Describe:

Photos

Photos to be taken of:

()

Entrance to Site Area (property that Disposal Area is on)	<input checked="" type="checkbox"/>
Site Area	<input checked="" type="checkbox"/>
Disposal Area	<input checked="" type="checkbox"/>
Facing north from northern perimeter	<input checked="" type="checkbox"/>
Facing south from southern perimeter	<input checked="" type="checkbox"/>
Facing east from eastern perimeter	<input checked="" type="checkbox"/>
Facing west from western perimeter	<input checked="" type="checkbox"/>
Any onsite surface water bodies or stream beds (note location in appropriate section)	<input checked="" type="checkbox"/>
Any important onsite conditions (debris, buildings, utilities, etc and note location)	<input checked="" type="checkbox"/>
Any important offsite conditions (debris, wells, surface water, etc. and note location)	<input checked="" type="checkbox"/>

G:\2006_projects\06210002_(NCDENR_Old_Unlined_Landfill)\Project_Templates\FieldReconSheet-2007-03-19.doc

APPENDIX B
TAX RECORDS

Parcel ID: 036501

Luc: Clear

UNITED STATES OF AMERICA

Map #: 707-11.1

Class: Vacant

Tax Year: 2010

NBHD: Hwy. 17 area/USA land

2531 DAWSON CABIN RD

Exempt: E**Parcel**

Parcel	036501
Tax Year	2010
Property Address	2531 DAWSON CABIN RD
Unit Desc	
Unit #	
NBHD	3320 - Hwy. 17 area/USA land
Class	Vacant
Land Use Code	24 - Clear
Living Units	
Mapping Acres	37125.23
CAMA Acres	37125.23
Location	
Fronting	
Zoning	HB-Highway Business District
Map #	707-11.1
PIN Number	434100465693
Total Cards	0
Record Type	R

Legal

Legal Description	
Township	
City Code	
Jurisdiction	
Plat Book-Page/Subd #	

Owner Details

Owner 1	
Owner 2	
Customer ID	
Address	

Mailing Address

% Ownership	
Nature of Ownership	

APPENDIX C
RECORDS OF COMMUNICATION
SITE VISIT PERMISSION LETTER



11A Oak Branch Drive
Greensboro, NC 27407
T/ 336-274-9456
F/ 336-274-9486

CONVERSATION RECORD

CONTACT:	Mr. Tom Rollins	ORGANIZATION:	Gulfstream Steel and Supply		
TITLE:	Adjacent Property Owner				
ADDRESS:	301 Highway 17 South Holly Ridge, NC 28445	DATE:	October 22, 2010		
		TIME:	1000		
PHONE:	910-329-5100	FAX:	910-329-5200		
PROJECT NAME:	NC DENR Old Unlined Landfill Assessment	PROJECT NO.:	06210002.35		
SITE NAME:	Camp Davis Landfill	NC DENR ID NO.:	NON CD0000683		
SUBJECT:	Disposal Area Location				
SCHNABEL REP:	Misti Benchabbat				
<input type="checkbox"/> INCOMING CALL		<input type="checkbox"/> OUTGOING CALL	<input type="checkbox"/> MESSAGE LEFT FOR CONTACT	<input type="checkbox"/> MESSAGE RECEIVED	<input checked="" type="checkbox"/> MEETING

REASON FOR INTERVIEW: Adjacent property owner and longtime resident

PERMISSON GRANTED TO ACCESS PROPERTY: Not applicable.

LOCATION OF LANDFILL: On the US Department of Defense site on the western side of Highway 50.

WHO OWNS THE LANDFILL PROPERTY: US Department of Defense

LIMITS OF LANDFILL: Does not know

LANDFILL OPERATION DATES: 1930s and 1940s

WHO PLACED WASTE IN LANDFILL: Camp Davis

MATERIALS PLACED IN LANDFILL: Does not know but did state that he didn't think that munitions were buried there.

HOW WAS MATERIAL PLACED IN LANDFILL: Does not know

WAS MATERIAL PLACED AFTER JANUARY 1, 1983: no

AVAILABLE RECORDS: Does not know.

PRESENT AND PRIOR LAND USE: Does not know.

PUBLIC OR PRIVATE WATER SUPPLY: Does not know.

OTHER CONTACTS: Does not know

ADDITIONAL INFORMATION: Does not know.



11A Oak Branch Drive
Greensboro, NC 27407
T/ 336-274-9456
F/ 336-274-9486

CONVERSATION RECORD

CONTACT:	Mr. David Lundquist	ORGANIZATION:	Camp Lejeune Marine Corp		
TITLE:	Environmental Engineer				
ADDRESS:	EQB/EMD/I&E MCB, Camp Lejeune, NC 28542	DATE:	November 3, 2010		
PHONE:	(910) 451-9421	TIME:			
PROJECT NAME:	NC DENR Old Unlined Landfill Assessment	PROJECT NO.:	06210002.35		
SITE NAME:	Camp Davis Landfill	NC DENR ID NO.:	NONCD0000683		
SUBJECT:	Interview				
SCHNABEL REP:	Ben Bradley				
<input type="checkbox"/> INCOMING CALL		<input checked="" type="checkbox"/> OUTGOING CALL	<input type="checkbox"/> MESSAGE LEFT FOR CONTACT	<input type="checkbox"/> MESSAGE RECEIVED	<input type="checkbox"/> MEETING

REASON FOR INTERVIEW: Mr. Lundquist is the environmental engineer for the Camp Lejeune Marine Corps.

PERMISSION GRANTED TO ACCESS PROPERTY: Yes

LOCATION OF LANDFILL: Does not know.

WHO OWNS THE LANDFILL PROPERTY: United States of America

LANDFILL OPERATION DATES: Does not know

WHO PLACED WASTE IN LANDFILL: Does not know

MATERIALS PLACED IN LANDFILL: Does not know

HOW WAS MATERIAL PLACED IN LANDFILL: Does not know

AVAILABLE RECORDS: None available to his knowledge

PRESENT AND PRIOR LAND USE: Marines sometimes use the site for training.

PUBLIC OR PRIVATE WATER SUPPLY: Does not know

OTHER CONTACTS: None

ADDITIONAL INFORMATION:



11A Oak Branch Drive
Greensboro, NC 27407
T/ 336-274-9456
F/ 336-274-9486

CONVERSATION RECORD

CONTACT:	Larry Willaford			ORGANIZATION:	Town of Holly Ridge		
TITLE:	Town Planner						
ADDRESS:	212 N Dyson Street			DATE:	December 1, 2010		
	Holly Ridge, NC			TIME:	1500		
PHONE:	910-329-7081			FAX:			
PROJECT NAME:	NC DENR Old Unlined Landfill Assessment			PROJECT NO.:	06210002.35		
SITE NAME:	Camp Davis Landfill			NC DENR ID NO.:	NON CD 0000683		
SUBJECT:	Location of landfill and utilities						
SCHNABEL REP:	Misti Benchabbat						
<input type="checkbox"/> INCOMING CALL		<input checked="" type="checkbox"/> OUTGOING CALL		<input type="checkbox"/> MESSAGE LEFT FOR CONTACT		<input type="checkbox"/> MESSAGE RECEIVED	<input type="checkbox"/> MEETING

REASON FOR INTERVIEW: Town of Holly Ridge Planner

PERMISSON GRANTED TO ACCESS PROPERTY: Not applicable

LOCATION OF LANDFILL: Does not know

WHO OWNS THE LANDFILL PROPERTY: US Government

LIMITS OF LANDFILL: Does not know

LANDFILL OPERATION DATES: Does not know

WHO PLACED WASTE IN LANDFILL: Does not know

MATERIALS PLACED IN LANDFILL: Does not know

HOW WAS MATERIAL PLACED IN LANDFILL: Does not know

WAS MATERIAL PLACED AFTER JANUARY 1, 1983: No

AVAILABLE RECORDS: Does not know

PRESENT AND PRIOR LAND USE: Does not know

PUBLIC OR PRIVATE WATER SUPPLY: There aren't any residences within 1,000 feet of the Disposal Area.

The surrounding area is served by municipal water.

OTHER CONTACTS: John Mariano, Police Chief

ADDITIONAL INFORMATION: To his knowledge, no underground utilities are located on the Site.



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T/ 336-274-9456
F/ 336-274-9486

CONVERSATION RECORD

CONTACT:	John Mariano	ORGANIZATION:	Town of Holly Ridge		
TITLE:	Town Police Chief				
ADDRESS:	212 N Dyson Street Holly Ridge, NC	DATE:	December 2, 2010 900		
PHONE:	910-329-7081	FAX:			
PROJECT NAME:	NC DENR Old Unlined Landfill Assessment	PROJECT NO.:	06210002.35		
SITE NAME:	Camp Davis Landfill	NC DENR ID NO.:	NON CD 0000683		
SUBJECT:	Location of landfill				
SCHNABEL REP:	Misti Benchabbat				
<input type="checkbox"/> INCOMING CALL		<input checked="" type="checkbox"/> OUTGOING CALL	<input type="checkbox"/> MESSAGE LEFT FOR CONTACT	<input type="checkbox"/> MESSAGE RECEIVED	<input type="checkbox"/> MEETING

REASON FOR INTERVIEW: Town of Holly Ridge Police Chief

PERMISSON GRANTED TO ACCESS PROPERTY: Not applicable

LOCATION OF LANDFILL: Does not know

WHO OWNS THE LANDFILL PROPERTY: US Government

LIMITS OF LANDFILL: Does not know

LANDFILL OPERATION DATES: Does not know

WHO PLACED WASTE IN LANDFILL: Does not know

MATERIALS PLACED IN LANDFILL: Does not know

HOW WAS MATERIAL PLACED IN LANDFILL: Does not know

WAS MATERIAL PLACED AFTER JANUARY 1, 1983: No

AVAILABLE RECORDS: Stated that John Stallings wrote a book about Camp Davis and that there may be information in the book. He said that Mr. Stallings used the library at John Hopkins University because that is where the archives for Camp Davis are stored.

PRESENT AND PRIOR LAND USE: Does not know

PUBLIC OR PRIVATE WATER SUPPLY: Does not know.

OTHER CONTACTS: Does not know

ADDITIONAL INFORMATION: Does not know



November 2, 2010

Commanding General
Attn: Mr. Scott Brewer
AC/S IFE
PSC 20005
Camp Lejeune, NC
28542-0005

Dear Mr. Brewer:

The North Carolina Department of Environment and Natural Resources (NCDENR) hired Schnabel Engineering South, PC (Schnabel) to assess old unlined landfills in several North Carolina counties. This project consists of researching the past use and current conditions of hundreds of sites.

Your property north of Holly Ridge on US 50 (Parcel No. 707-11.1) has been identified as a potential location of one of these old unlined landfills. We would like to visit your property. During the site visit our staff would walk over the property to observe the current conditions. No sampling or digging would be performed. After our site visit we will prepare a report and submit it to NCDENR.

During the next few days one of our staff will be calling you to answer any questions you might have and to request permission to visit your property. If you have questions prior to our call, feel free to call me at the phone number listed below. If you call after business hours or during the weekend, please leave me a message.

If you have general questions about the program you may also contact the NCDENR staff listed on the attached letter.

Thank you for your assistance.

Sincerely,

SCHNABEL ENGINEERING SOUTH, PC

A handwritten signature in blue ink that reads "Benjamin L. Bradley".

Benjamin L. Bradley
Project Scientist

GR/BB

Attachment: Property Owner Letter from NCDENR

NONCD 0000683

cc: Bruce Lefler, NCDENR

G:\2006_projects\06210002_(NCDENR_Old_Unlined_Landfill)\Task_35_Onslow_Co\0683-CampDavisLandfill\Report\Final\PropertyOwnerIntroLetter-ScottBrewer-2010-11-02.doc

schnabel-eng.com

T/ 336-274-9456 **F/** 336-274-9486

11A Oak Branch Drive / Greensboro, NC / 27407



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 catalogued 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 proposes 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



November 3, 2010

Robert A. Lowder
Environmental Engineer
EQB/EMD/I&E
MCB, Camp Lejeune, NC 28542

Dear Mr. Lowder:

Misti Benchabbat and Ben Bradley or Cameron Crenshaw plan to do a site reconnaissance at an old unlined landfill on Parcel Number 434100465693 located north of the Town of Holly Ridge in Onslow County, North Carolina. We plan to walk the site, take photographs, and collect GPS coordinates. No digging or subsurface work will take place.

Misti Benchabbat was born in Grenada Mississippi on November 14, 1974, Ben Bradley was born in Oakland California on February 2, 1977 and, Cameron Crenshaw was born in Charlotte, North Carolina on April 15 1984.

Thank you for your assistance.

Sincerely,

SCHNABEL ENGINEERING SOUTH, PC

A handwritten signature in blue ink that reads "Benjamin L. Bradley".

Benjamin L. Bradley
Project Scientist

GR/BB

NONCD 0000683

G:\2006_projects\06210002_(NCDENR_Old_Unlined_Landfill)\Task_35_Onslow_Co\0683-CampDavisLandfill\Report\Final\PropertyOwnerIntroLetter-BobLowder-2010-11-03.doc

schnabel-eng.com

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APPENDIX D

SITE PHOTOGRAPHS



PHOTOGRAPH No.: 1

Photo Taken: 11-10-10

LOCATION:

Site entrance off of Highway 50

COMMENTS:

Photo taken facing toward the east. Locked gate across the access road which leads to Disposal Area.



PHOTOGRAPH No.: 2

Photo Taken: 11-10-10

LOCATION:

Disposal Area and Site entrance at the eastern end of the access road.

COMMENTS:

Photo taken facing toward the west.



PHOTOGRAPH No.: 3

Photo Taken: 11-10-10

LOCATION:

Northern Site and Disposal Area boundary.

COMMENTS:

Photo taken facing east. Site is on the right side of the road.



PHOTOGRAPH No.: 4

Photo Taken: 11-10-10

LOCATION:

Eastern portion of Site.

COMMENTS:

Highway 50 and eastern adjacent property.



PHOTOGRAPH No.: 5

Photo Taken: 11-10-10

LOCATION:

Northern perimeter of Disposal Area.

COMMENTS:

Photo taken facing toward the south.



PHOTOGRAPH No.: 6

Photo Taken: 11-10-10

LOCATION:

Northern perimeter of Disposal Area.

COMMENTS:

Ditch with standing water



PHOTOGRAPH No.: 7

Photo Taken: 11-10-10

LOCATION:

Northern portion of Disposal Area.

COMMENTS:

View of northern adjacent property. Photo taken facing northwest from the Site entrance.



PHOTOGRAPH No.: 8

Photo Taken: 11-10-10

LOCATION:

Western portion of Disposal Area.

COMMENTS:

Photo taken facing toward the south. Paved road along the western perimeter of the Disposal Area. Site is on the left and wooded adjacent property is on the right.



PHOTOGRAPH No.: 9

Photo Taken: 11-10-10

LOCATION:

Southern portion of Disposal Area.

COMMENTS:

View of southern portion of the Disposal Area. Photo taken facing north.



PHOTOGRAPH No.: 10

Photo Taken: 11-10-10

LOCATION:

Southern portion of Disposal Area.

COMMENTS:

Photo taken facing toward the north.



PHOTOGRAPH No.: 11

Photo Taken: 11-10-10

LOCATION:

Western portion of Disposal Area.

COMMENTS:

View of white goods.



PHOTOGRAPH No.: 12

Photo Taken: 11-10-10

LOCATION:

Southern portion of Disposal Area.

COMMENTS:

Fabric protruding from the ground surface.



PHOTOGRAPH No.: 13

Photo Taken: 11-10-10

LOCATION:

Northern portion of Disposal Area.

COMMENTS:

View of tire.



PHOTOGRAPH No.: 14

Photo Taken: 11-10-10

LOCATION:

Western portion of Disposal Area.

COMMENTS:

View of tire.



PHOTOGRAPH No.: 15

Photo Taken: 11-10-10

LOCATION:

Western portion of Disposal Area.

COMMENTS:

View of white goods.



PHOTOGRAPH No.: 16

Photo Taken: 11-10-10

LOCATION:

Northern portion of Disposal Area.

COMMENTS:

Trench features.



PHOTOGRAPH No.: 17

Photo Taken: 11-10-10

LOCATION:

Northern portion of Disposal Area.

COMMENTS:

Trench features.



PHOTOGRAPH No.: 18

Photo Taken: 11-10-10

LOCATION:

Eastern portion of the Disposal Area.

COMMENTS:

Marsh with standing water.
Photo taken facing west.



PHOTOGRAPH No.: 19

Photo Taken: 11-10-10

LOCATION:

Eastern portion of Disposal Area.

COMMENTS:

Marsh. Photo taken facing toward the northwest.



PHOTOGRAPH No.: 20

Photo Taken: 11-10-10

LOCATION:

Eastern portion of Disposal Area.

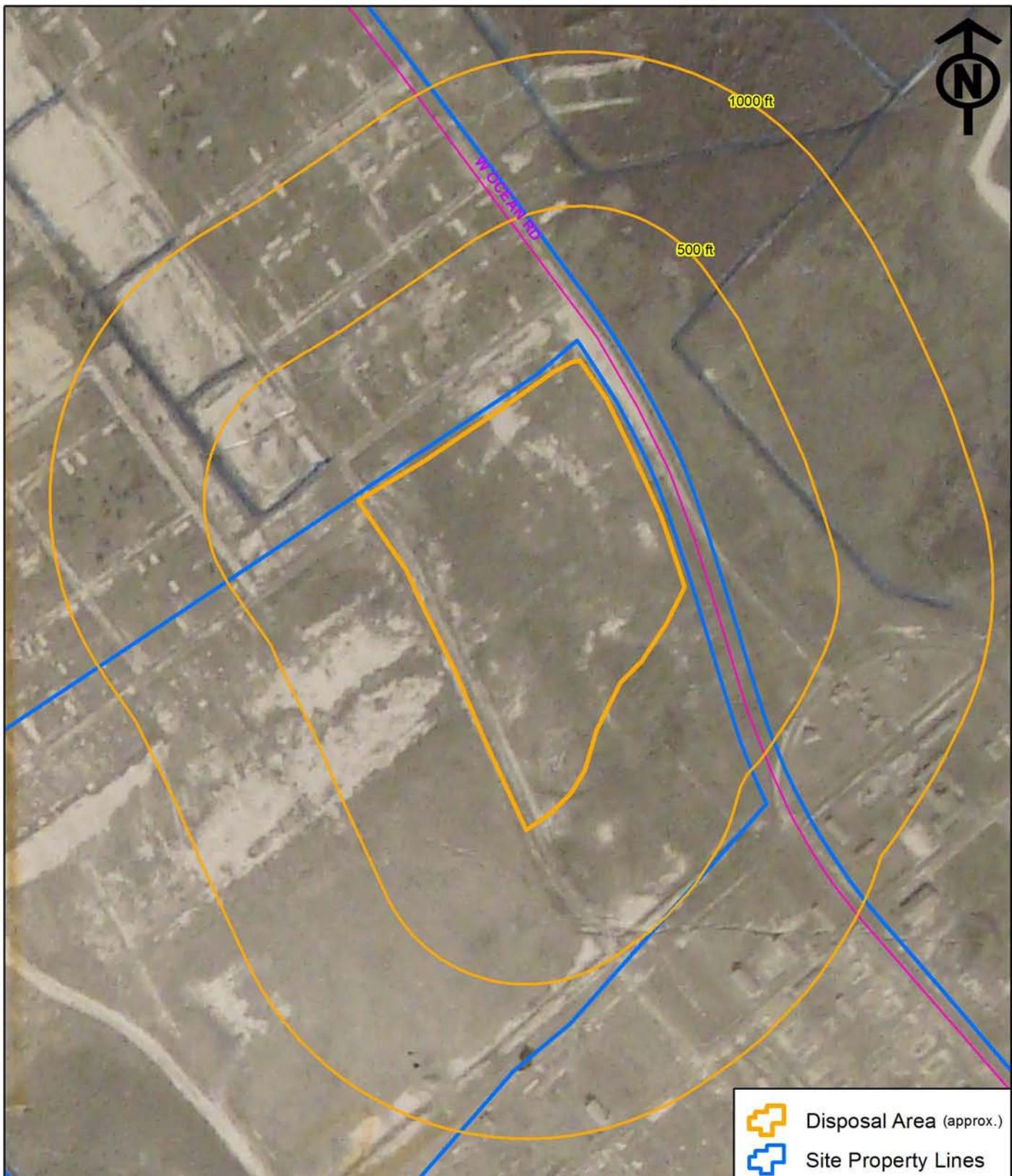
COMMENTS:

Standing water in the marsh.

APPENDIX E
AERIAL PHOTOGRAPHS



 Schnabel ENGINEERING	NCDENR OLD LANDFILL ASSESSMENT Camp Davis Landfill NONCD0000683 Onslow County, NC	TOPOGRAPHIC MAP AT AERIAL PHOTO SCALE Figure E-1
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Source: 1. Onslow County
Soil and Water Conservation District
(USDA NRCS)

450 225 0 450

Scale: 1:5,400



Schnabel
ENGINEERING

NCDENR
OLD LANDFILL ASSESSMENT

Camp Davis Landfill NONCD0000683
Onslow County, NC

AERIAL PHOTO OF SITE
1949

Figure E-2



Source: 1. Onslow County
Soil and Water Conservation District
(USDA NRCS)

450 225 0 450
Feet
Scale: 1:5,400

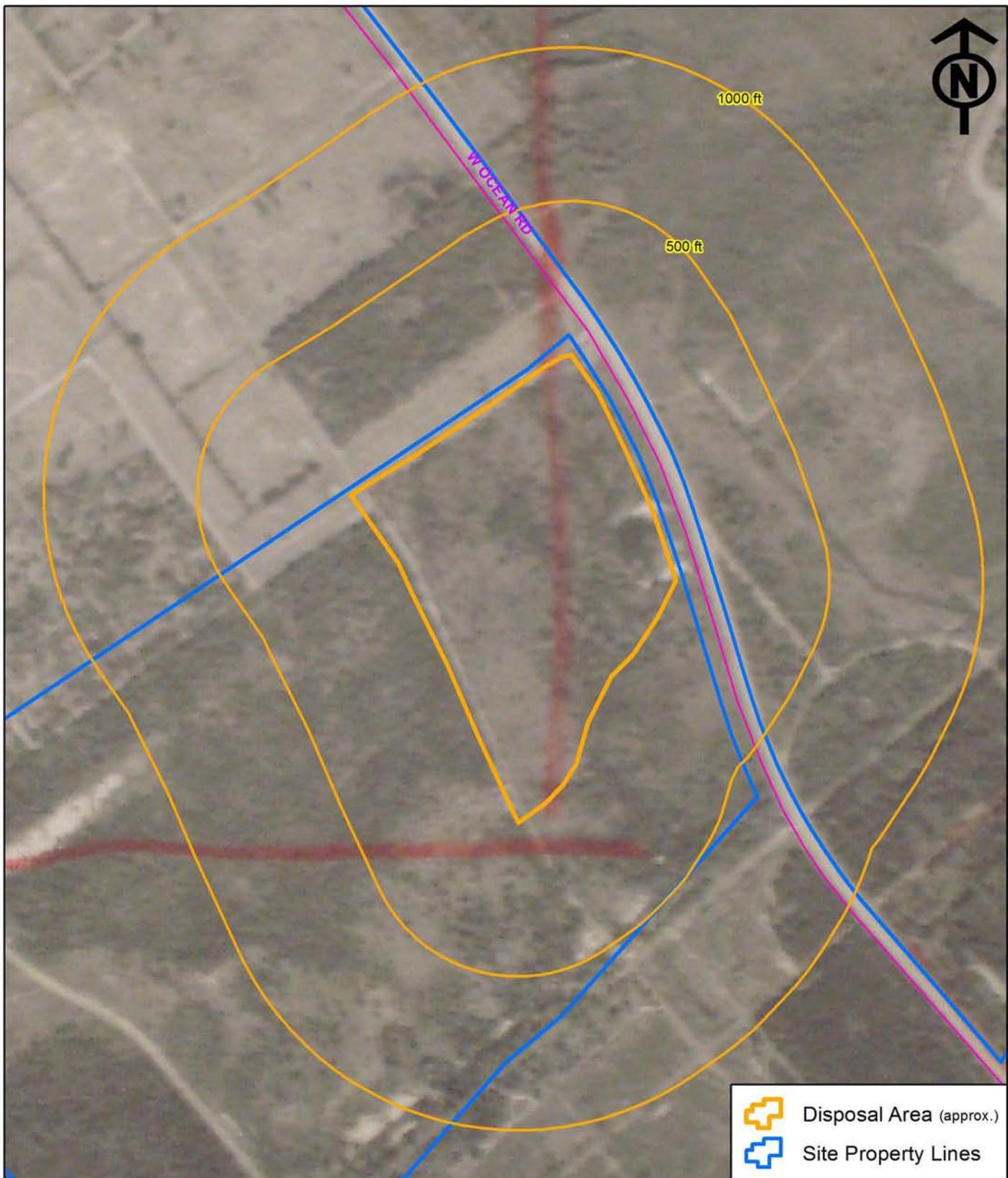
 Schnabel ENGINEERING	NCDENR OLD LANDFILL ASSESSMENT Camp Davis Landfill NONCD0000683 Onslow County, NC	AERIAL PHOTO OF SITE 1960 Figure E-3
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Source: 1. Onslow County
Soil and Water Conservation District
(USDA NRCS)

450 225 0 450
Scale: 1:5,400
Feet

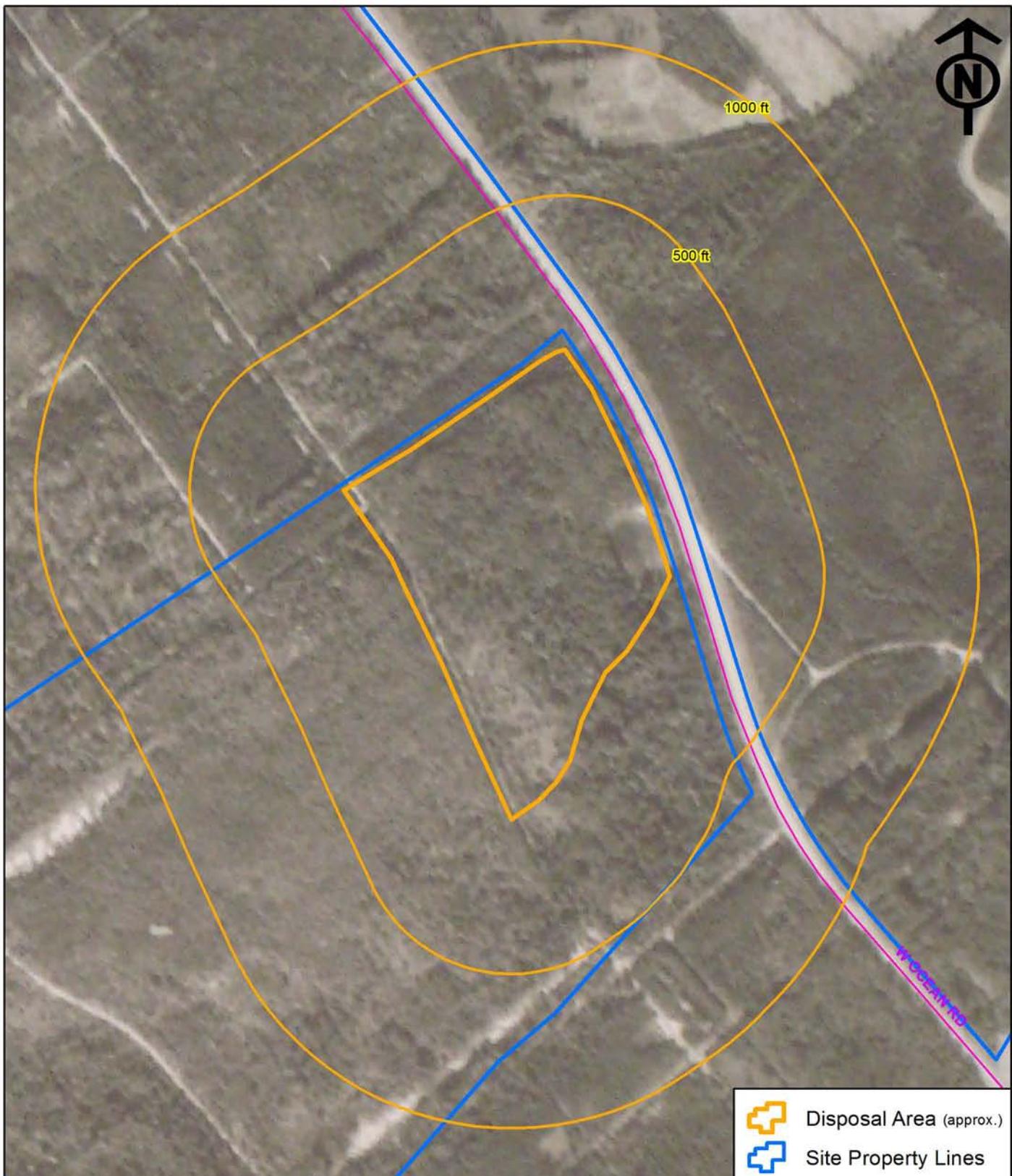
 Schnabel <small>ENGINEERING</small>	<small>NCDENR</small> <small>OLD LANDFILL ASSESSMENT</small>	<small>AERIAL PHOTO OF SITE</small> <small>1964</small>
	<small>Camp Davis Landfill NONCD0000683</small> <small>Onslow County, NC</small>	<small>Figure E-4</small>



Source: 1. Onslow County
Soil and Water Conservation District
(USDA NRCS)

450 225 0 450
Scale: 1:5,400
Feet

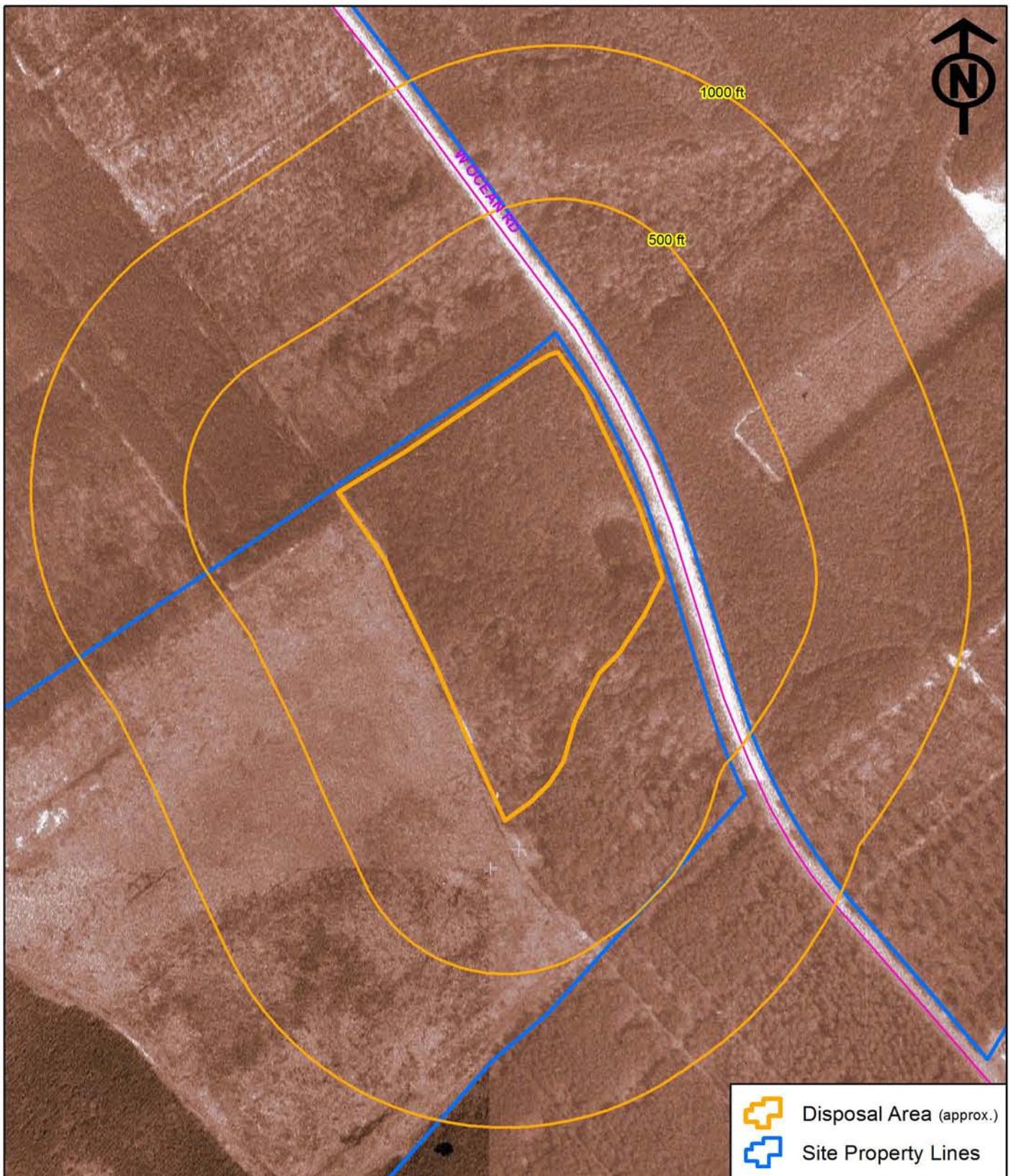
 Schnabel <small>ENGINEERING</small>	<small>NCDENR</small> <small>OLD LANDFILL ASSESSMENT</small>	<small>AERIAL PHOTO OF SITE</small> <small>1970</small>
	<small>Camp Davis Landfill NONCD0000683</small> <small>Onslow County, NC</small>	<small>Figure E-5</small>



Disposal Area (approx.)
 Site Property Lines

Source: 1. Onslow County
Soil and Water Conservation District
(USDA NRCS)

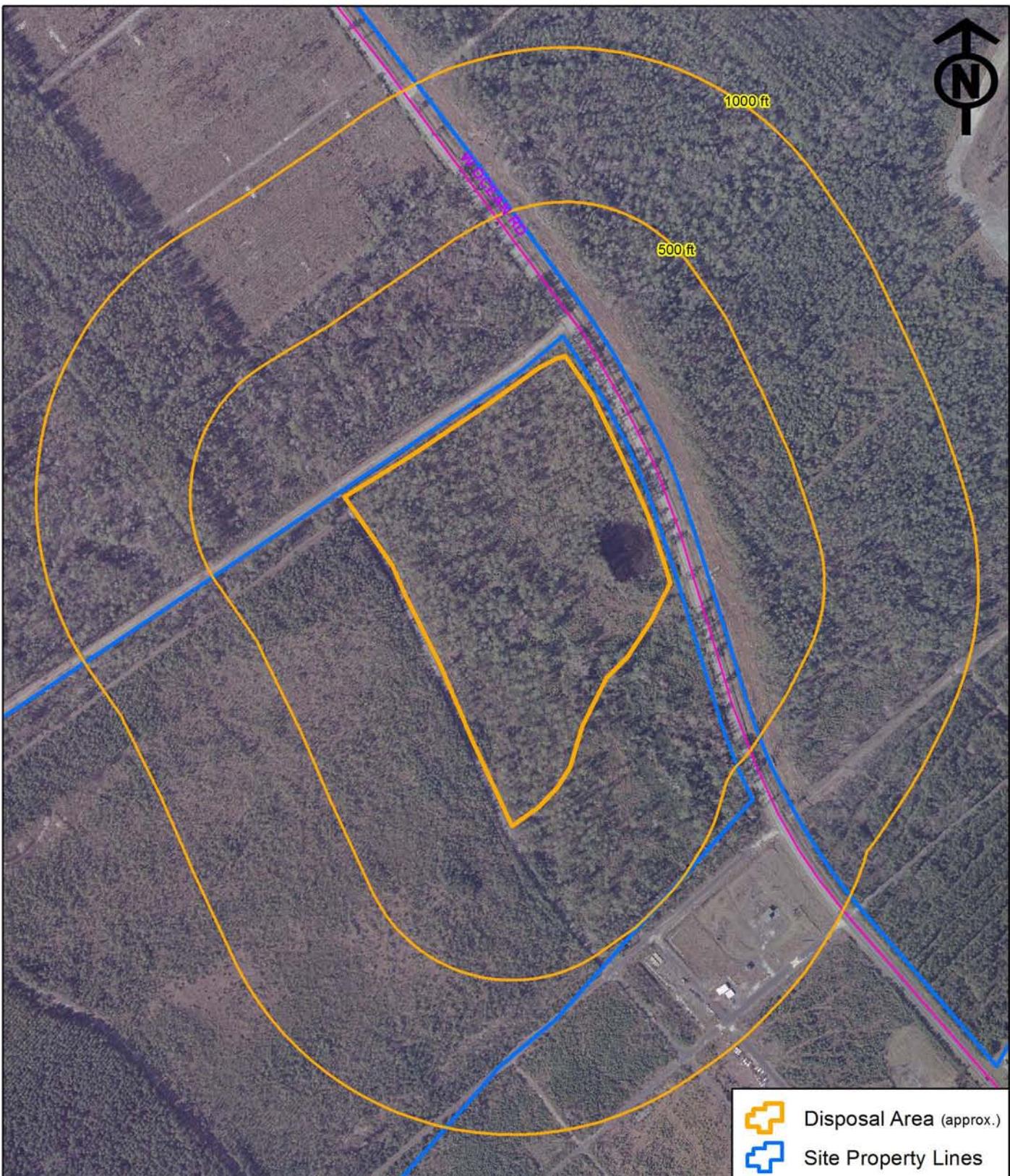
450 225 0 450
Scale: 1:5,400
Feet



Source: 1. North Carolina Department of Transportation, Onslow County
<http://www.ncdot.org/it/gis/DataDistribution/imagemap>

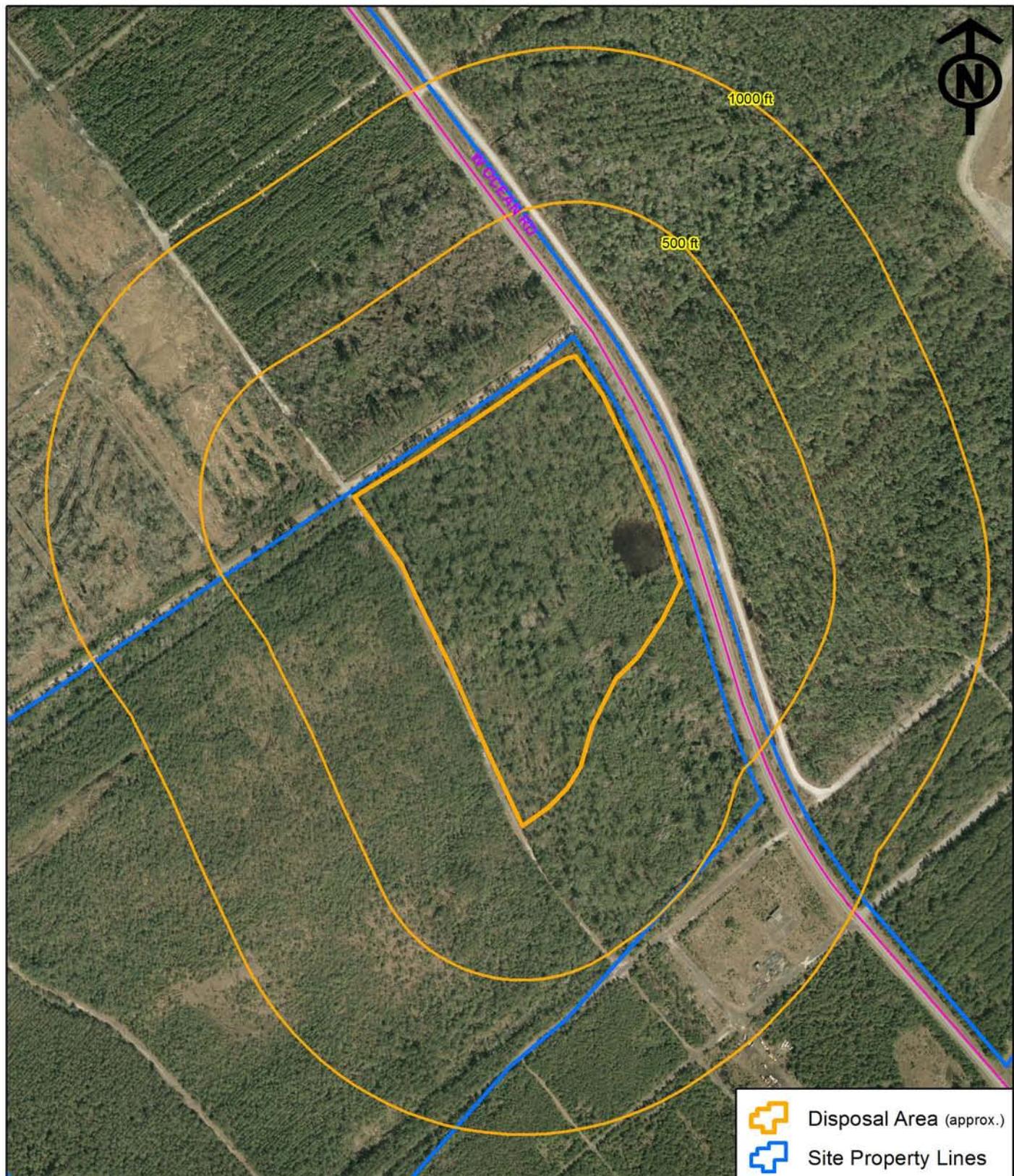
450 225 0 450
Scale: 1:5,400
Feet

 Schnabel ENGINEERING	NCDENR OLD LANDFILL ASSESSMENT	AERIAL PHOTO OF SITE 1993
	Camp Davis Landfill NONCD0000683 Onslow County, NC	Figure E-7



Source: 1. North Carolina One Map
ftp://ftp.nconemap.com/outgoing/raster/local_imagery/onslow2001/sid/

450 225 0 450
Scale: 1:5,400
Feet



Source: 1. North Carolina One Map
ftp://ftp.nconemap.com/outgoing/raster/local_imagery/onslow2006/sid/

450 225 0 450
Scale: 1:5,400
Feet



NCDENR
OLD LANDFILL ASSESSMENT

Camp Davis Landfill NONCD0000683
Onslow County, NC

AERIAL PHOTO OF SITE
2006

Figure E-9