

SITE SUMMARY REPORT
Sims Legion Park Landfill
No ID Assigned
Gaston County

1349 Rankin Lake Road
Gastonia, NC 28053

Senate Bill 1492
State of North Carolina
State Contract N10004S
Schnabel Project No. 06210002.42

February 3, 2011


Prepared for:

North Carolina Department of Environment and Natural Resources
Superfund Section
Inactive Hazardous Sites Branch
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SITE LOCATION RESEARCH SUMMARY

ID NUMBER: No ID assigned
SITE NAME(S): Sims Legion Park Landfill
LOCATION: 1349 Rankin Lake Road, Gastonia, NC 28053
COUNTY: Gaston

LANDFILL SIZE: 24.1 acres (Disposal Area enclosed by GPS points obtained during site visit and perimeter identified from aerial photographs, LiDAR)
PROPERTY SIZE: 38.6 acres (from Gaston County GIS)
DATE OPENED: Approximately 1930 (data obtained from Mr. James Palenick, Gaston County City Manager)
DATE CLOSED: Late 1950's (data obtained from Mr. James Palenick, Gaston County City Manager)

CURRENT OWNER: City of Gastonia
CURRENT OWNER CONTACT: Mr. James Palenick, City Manager
CURRENT OWNER ADDRESS: P.O. Box 1748, Gastonia, NC 28053
CURRENT OWNER TELEPHONE NUMBER: 704-866-6719
TAX PARCEL No./PIN No.: 3546-74-8372
DEED REFERENCE: Deed Book 1074, Page 652

PARCEL 1

CURRENT OWNER: Ms. Ella Bohannon Life Estate
CURRENT OWNER CONTACT: C/O Mr. Ed Stowe
CURRENT OWNER ADDRESS: P.O. Box 2379, Gastonia, NC 28053
CURRENT OWNER TELEPHONE NUMBER: Not listed
TAX PARCEL No./PIN No.: 3546-73-8496
DEED REFERENCE: Deed Book 96E, Page 830
PROPERTY SIZE: 0.77 acres (from Gaston County GIS)

PARCEL 2

CURRENT OWNER: NCDOT Right-of-Way
CURRENT OWNER CONTACT: Mr. Jeff D'Arruda, Resident Engineer
CURRENT OWNER ADDRESS: 6007-B Victory Lane, Concord, NC 28027
CURRENT OWNER TELEPHONE NUMBER: 704-455-2958

COORDINATES: (at site entrance from handheld GPS)
State Plane Coordinates (NAD83, meters): Northing: 410998 Easting: 171995
Latitude: N35° 16' 50.9" Longitude: W81° 11' 00.6"

AREAS OF NOTE

- 1) An enclosed ticket booth built on a crawl space is located on the southern part of the Disposal Area.
- 2) Sims Legion Park stadium is located adjacent to the Disposal Area on the southeastern part of the Site. The stadium includes two drop down dugouts and enclosed areas for maintenance, announcer's booth, and locker rooms.
- 3) United House of Prayer, Pentecostal Reform Church (vacant parcel), Woodhill Elementary School, Highland Technology School, and Toddler Tech University Daycare are located within 1,000 feet of the Disposal Area.
- 4) An unnamed perennial stream flows along the western boundary of the Disposal Area. A drainage with flowing water is located on the northwest central part of the Disposal Area and flows into the unnamed perennial stream.
- 5) The eastern portion of the drainage with flowing water is piped underground.
- 6) The Site and Disposal Area are used for recreational purposes.
- 7) Potential landfill gas migration pathways observed on the Disposal Area and Site include underground sewer, stormwater, water, electric, and telecommunications lines, cracks in the parking lot, a piped drainage with flowing water, utility and fence posts, enclosed ticket booth built on a crawl space, Sims Legion Park stadium dugouts, dugout drains, maintenance and locker rooms.
- 8) Hummocky topography and depressions were observed on the western part of the Disposal Area.
- 9) Erosional gullies were observed along the drainage with flowing water on the northwest central part of the Disposal Area.
- 10) Exposed debris observed on the Disposal Area consisted of tires, metal debris, cinder blocks, concrete, fabric, and plastic sheeting.
- 11) Wooden utility poles are piled on the ground on the central part of the Disposal Area.
- 12) Waste appears to extend beyond the property boundary of the Site on the southern boundary extending onto tax parcel 3546-73-8496 owned by Ella Bohannon Life Estate and the NCDOT right-of-way (no parcel ID assigned) to the north.

SITE SUMMARY

1.0 SITE CONDITIONS

This section discusses the observed conditions on the Site, as defined as the properties (Tax Parcels #3546-73-8496, 3546-74-8372, and NCDOT right-of-way (no parcel number assigned) 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. The boundary (perimeter) of this area is the observed limit of waste material based on field observations and the inferred limit based on a review of historical aerial photographs or LiDAR images. The site visit was conducted on December 21, 2010. Photographs illustrating site conditions are included in Appendix D.

The Site is located in Gaston County, near Gastonia, NC. Driving directions to the Site from the intersection of Interstate 85 and US Highway 321 are as follows:

1. Drive south on US Highway 321 for about ¼ mile.
2. Take a left onto Caldwell Street and drive about 1/8 mile.
3. Take a left onto Sycamore Avenue and drive for about ¼ mile.
4. Take a left onto Marietta Street. Entrance to Sims Legion Park Landfill is on left side of road adjacent to stadium.

1.1 On-site Structures

An enclosed ticket booth built on a crawl space is located on the southern boundary of the Disposal Area.

Sims Legion Park stadium is located on the southeastern part of the Site. The northern, southern, and western parts of the stadium are adjacent to the Disposal Area. Drop down dugouts, stands, an enclosed announcer's booth, and enclosed maintenance and locker rooms are located within the stadium.

1.2 Current Site Usage

The Site is used for recreational purposes. Sims Legion Park stadium, ball fields, a parking lot, ticket booth, and bike park are located on the Site.

1.3 On-Site Water Supply Wells and Intakes

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

1.4 Surface Water Features

An unnamed perennial stream flows from south to north along the western boundary of the Disposal Area. The unnamed perennial stream was five to seven feet wide with slow-flowing clear water at the time of the site visit. A drainage with flowing water is located on the northwest central part of the Disposal Area. The eastern portion of the drainage with flowing water has been piped beneath the Disposal Area. The observed portion of the drainage with flowing water was about five feet wide with a sandy bottom and slow-flowing, clear water at the time of the site visit. Disposal material including tires and metal debris were observed in the drainage with flowing water. The drainage with flowing water flows into the unnamed perennial stream.

1.5 Disposal Area

Access to the Disposal Area is from Marietta Street (Photo 1). The Disposal Area occupies 24.1 acres based on the estimated Disposal Area perimeter shown on Figures 1 through 3.

The ground surface of the Disposal Area slopes relatively uniformly toward the west. A comparison of the topography from the 1993 USGS 7.5 minute topographic quadrangle map (20 foot contours, based on 1969 and 1914 (Appendix F) aerial photography, respectively) with the 2005 topographic map from NCDOT (5 foot contours), indicates that disposal material has filled in the drainage on the north central part of the Disposal Area with up to about 25 feet of material.

The depth of waste is estimated based on a comparison of topographic maps of different vintages constructed using different methods. Differences between elevations on the maps may reflect actual elevation changes or may be apparent differences due to the different map making methods. The elevation comparisons are approximate and differences in scale and methods of mapping are not sufficient to evaluate some changes in topography.

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 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 and LiDAR. Figures 4 and 5 show LiDAR shaded relief superimposed on the Disposal Area.

1.6 Disposal Area Conditions

The north central and eastern part of the Disposal Area is covered with grass and an asphalt parking lot. Two ball fields are located on the Disposal Area and are covered with grass and bare ground. The western part of the Disposal Area is wooded with deciduous trees of five to six inches in diameter and briars. Hummocky topography and depressions were apparent on the western part of the Disposal Area. Disposal material was exposed on the western part of the Disposal Area. Exposed disposal material included tires, metal debris, cinder blocks, concrete, fabric, and plastic sheeting. A bike park is located on the southwestern part of the Disposal Area. Sims Legion Park stadium is located adjacent to the southeastern part of the Disposal Area. Erosional gullies were observed along the drainage with flowing water on the northwest central part of the Disposal Area. Disposal material including concrete, plastic sheeting, tires, and fabric were exposed in the erosional gullies. Wooden utility poles used for ball field lighting are piled on the ground on the central part of the Disposal Area.

The observed Disposal Area was on multiple tax parcels, Parcel Numbers 3546-74-8372, owned by the City of Gastonia, 3546-73-8496, owned by Ella Bohannon Life Estate, and NCDOT right-of-way (no parcel number assigned). The western boundary of the Disposal Area was visually evident based on the presence of exposed disposal material. The majority of the Disposal Area is

located on Parcel No. 3546-74-8372. The northern, eastern, and southern boundaries of the Disposal Area were difficult to identify. The southern perimeter of the Disposal Area extended onto Parcel No. 3546-73-8496 and the northern perimeter extended onto NCDOT right-of-way (no parcel number assigned). Coordinates of points on the estimated perimeter of the Disposal Area are listed on Table 1.

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

1.7 Evidence of Human Activity

Evidence of human activity was apparent throughout the Site and Disposal Area. Ball fields are located on the northern part of the Disposal Area, a parking lot is located on the eastern part of the Disposal Area, a bike park is located on the southwestern part of the Disposal Area, and a ticket booth was observed on the southern part of the Disposal Area.

1.8 Potential Landfill Gas Migration Pathways

Potential gas migration pathways located on the Disposal Area and Site were:

- Underground sewer, stormwater, and water lines: western and central parts of the Disposal Area beneath the parking lot and ball fields.
- Piped drainage with flowing water: north central part of Disposal Area.
- Enclosed ticket booth on crawl space: southern boundary of Disposal Area.
- Sims Legion Park stadium: southeastern part of Site includes drop down dugouts, dugout drains, maintenance and locker rooms inside stadium.
- Fence posts: around ball fields and bike park.
- Utility posts: throughout Disposal Area and Site.
- Cracks in the parking lot: eastern Disposal Area.
- Underground telecommunications: southern part of Site.
- Underground electric lines: throughout Disposal Area and Site.

1.9 Physical Barriers

Site access is provided by an entranceway from Marietta Street. A fence and Interstate 85 limit access to the northern part of the Disposal Area. A fence limits access to the bike park located in the southwestern part of the Disposal Area. Physical barriers were not observed along the southern, eastern, and western property boundaries.

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. James Palenick, Gastonia City Manager, stated that:
 - The Site was used from about 1930 to the late 1950's.
 - Mr. Palenick gave verbal permission to access the property.
 - The disposal material placed at the Site was generated by the City of Gastonia
 - The stadium has been on the Site since the 1950's and the ball fields were built in the 1970's.
 - The landfill may extend beneath Interstate 85, but does not go beneath the stadium.
 - About four to six feet of fill was placed on top of the disposal material.
 - He did not know what types of materials were placed at the landfill.
 - No records are available on the landfill.
- Ms. Marcy Smith, Gaston County Solid Waste Director, stated that:
 - She did not have knowledge about Sims Legion Park Landfill.
- Mr. Ray Maxwell, Gaston County Public Works Director, stated that:
 - He did not have any additional information available on Sims Legion Park Landfill.

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.

Several houses are located to the south of the Site on multiple tax parcels on Sycamore Avenue. A greenway is located along the western perimeter of the Site. These structures are shown on Figure 2 and on aerial photographs in Appendix E.

2.2 Water Supply Wells and Intakes

Water supply wells or well houses were not observed at residences within a 1,000-foot radius of the Disposal Area. Water meters were observed in the yards of several of the residences within 1,000 feet of the Site. Fire hydrants were observed within 1,000 feet of the Site. Mr. James Palenick, Gastonia City Manager, stated that the vicinity was on public water supply.

No public water supply wells or intakes were listed on the NCDENR Public Water Supply Section's database (as of January 2011) within 1,000 feet of the Disposal Area.

2.3 Current Land Usage

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

- North:** Interstate 85, wooded, apparent side- to down-gradient direction from the Site.
- South:** Residential, commercial, United House of Prayer, Pentecostal Reform Church (vacant property), apparent up-gradient direction from the Site.
- East:** Commercial and Woodhill Elementary School, apparent up-gradient direction from the Site.
- West:** Residential, commercial, Highland Technology School, and Toddler Tech University Daycare, apparent down-gradient direction from the Site.

2.4 Surface Water Features

Three unnamed intermittent streams flow into an unnamed perennial stream from the south. The unnamed perennial stream then flows northward along the western boundary of the Disposal Area.

3.0 AERIAL PHOTOGRAPHY REVIEW

Aerial photographs were reviewed for the years 1938, 1951, 1956, 1968, 1979, 1984, 1993, 2005, and 2009. The reported years of operation of the Site were from about 1930 to the late 1950's. 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
1938	The Site and surrounding area appear to be covered with agricultural fields. Agricultural terraces are visible. Residential properties are apparent to the southwest of the Site.	1
1951	The Disposal Area appears to be covered with ground vegetation. Sims Legion Park stadium has been built on the southeastern part of the Site. Additional residences and commercial properties have been built to the south of the Site.	1
1956	The southern, western, and northern parts of the Disposal Area have been cleared and bare disturbed ground is apparent. A drainage is apparent on the north central part of the Disposal Area.	1
1968	A parking lot is apparent on the eastern part of the Disposal Area. The eastern side of the drainage is no longer visible on the north central part of the Disposal Area. The Disposal Area is covered with ground vegetation. Interstate 85 has been built to the north of the Site.	1
1979	Ball fields have been built on the northern part of the Disposal Area. Wooded areas are apparent on the western part of the Disposal Area. Woodhill Elementary School has been built to the southeast of the Site.	1
1984	Appears similar to previous aerial photograph.	1
1993	The western part of the Disposal Area is wooded and the northern part of the Disposal Area is covered with ball fields and grass.	2
2005	The bike park is apparent on the southwestern part of the Disposal Area.	3
2009	The aerial photograph shows conditions representative of those observed during the visit.	3

Sources of aerial photos:

- 1) USDA NRCS office in Gastonia, NC
- 2) NCDOT, <http://www.ncdot.org/it/gis/dtatdistribution/imagemap>
- 3) NC One Map, ftp://ftp.nconemap.com/outgoing/raster/local_imagery/gaston2005/sid/

This report was prepared specifically for the use of NCDENR 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

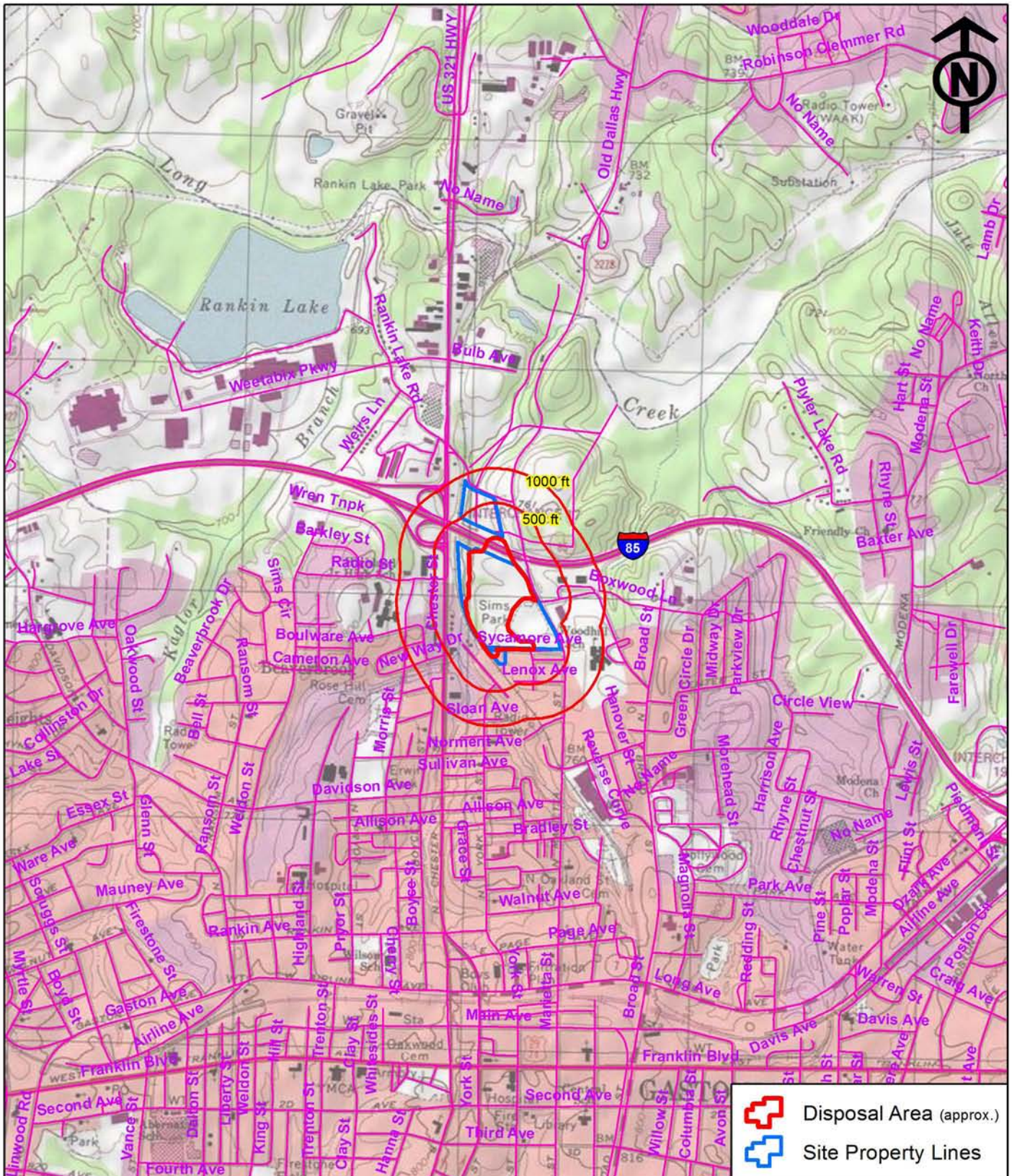
TABLE 1
Tabulated GPS Coordinates

Point	State Plane Coordinates (meters)		Latitude (deg, min, sec)	Longitude (deg, min, sec)
	Northing	Easting	N	W
Points obtained using a WAAS enabled Thales Mobile Mapper				
Disposal Area Entrance	410998	171995	35 16 50.9	81 11 0.6
P-1	411001	171988	35 16 50.6	81 11 0.5
P-2	410966	171999	35 16 50.9	81 11 1.9
P-3	410935	171989	35 16 50.6	81 11 3.1
P-4	410899	171946	35 16 49.2	81 11 4.5
P-5	410876	171880	35 16 47.0	81 11 5.3
P-6	410882	171855	35 16 46.2	81 11 5.1
P-7	410931	171809	35 16 44.8	81 11 3.1
P-8	410982	171808	35 16 44.8	81 11 1.1
P-9	410994	171776	35 16 43.8	81 11 0.6
P-10	410987	171772	35 16 43.6	81 11 0.8
P-11	410829	171773	35 16 43.5	81 11 7.1
P-12	410831	171747	35 16 42.7	81 11 7.0
P-13	410809	171740	35 16 42.4	81 11 7.9
P-14	410796	171749	35 16 42.7	81 11 8.4
P-15	410752	171822	35 16 45.1	81 11 10.2
P-16	410700	171926	35 16 48.4	81 11 12.3
P-17	410692	171975	35 16 50.0	81 11 12.7
P-18	410696	171992	35 16 50.5	81 11 12.6
P-19	410707	172005	35 16 51.0	81 11 12.1
P-20	410704	172057	35 16 52.7	81 11 12.3
P-21	410710	172076	35 16 53.3	81 11 12.1
P-22	410709	172160	35 16 56.0	81 11 12.2
P-23	410706	172191	35 16 57.0	81 11 12.3
P-24	410708	172198	35 16 57.2	81 11 12.2
P-25	410716	172202	35 16 57.4	81 11 11.9
P-26	410744	172206	35 16 57.5	81 11 10.8
P-27	410758	172203	35 16 57.4	81 11 10.3
P-28	410769	172207	35 16 57.6	81 11 9.9
P-29	410779	172224	35 16 58.1	81 11 9.5
P-30	410788	172249	35 16 59.0	81 11 9.1
P-31	410815	172265	35 16 59.5	81 11 8.1
P-32	410833	172263	35 16 59.4	81 11 7.4
P-33	410863	172246	35 16 58.9	81 11 6.2
P-34	410889	172184	35 16 56.9	81 11 5.1
P-35	410964	172073	35 16 53.4	81 11 2.0

Notes:

- 1) GPS points obtained during site visit using a WAAS enabled Thales Mobile Mapper.
- 2) All points in NAD83 datum.

FIGURES



Source: 1. USGS 7.5' Quadrangle, Gastonia North NC, 1993
 Topography Based on Aerial Photos Taken 1969
 Contour Intervals = 20 ft



Scale: 1:24,000

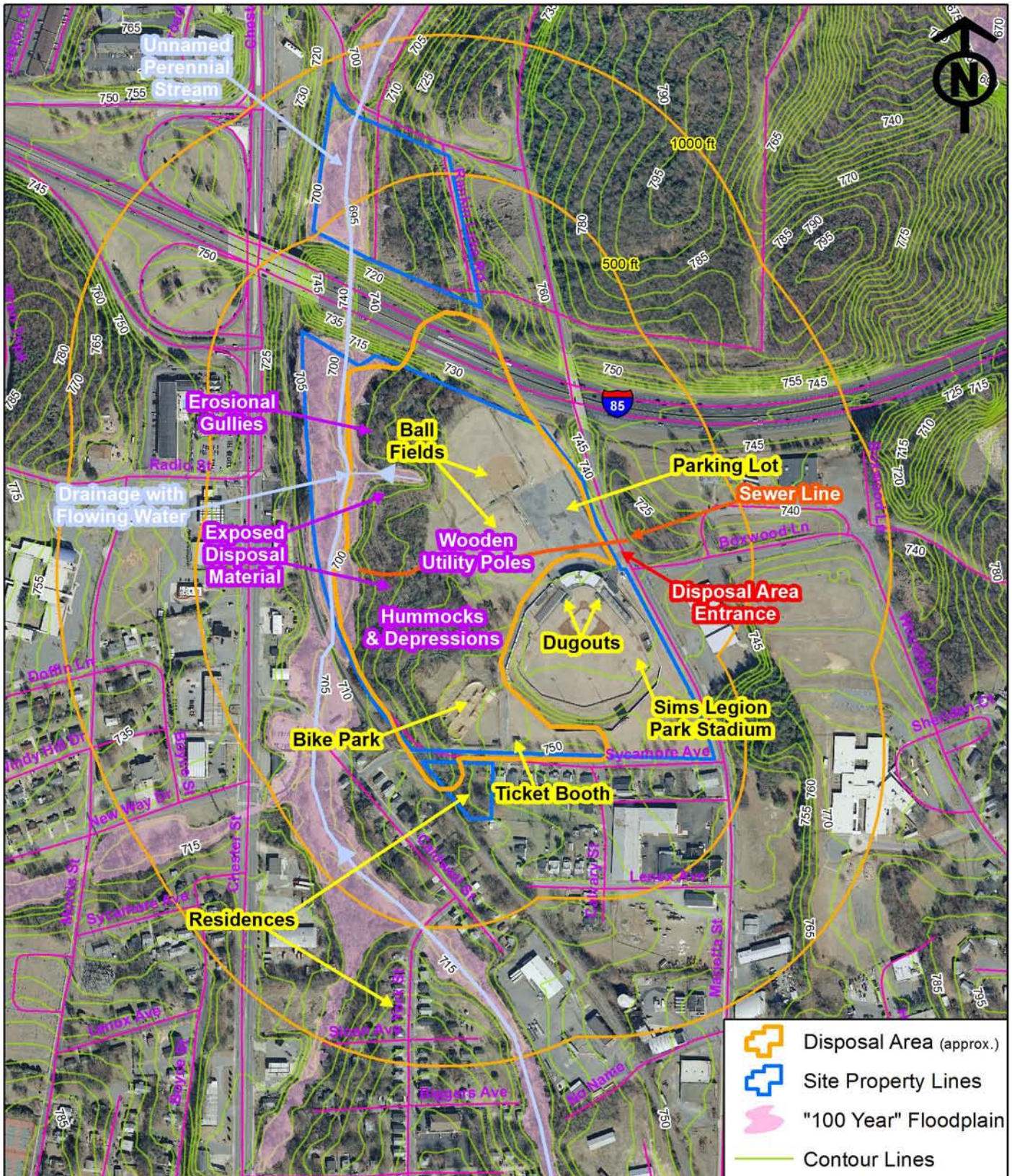


NCDENR
 OLD LANDFILL ASSESSMENT

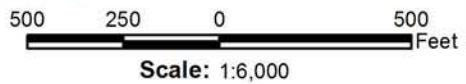
USGS TOPOGRAPHIC MAP

Sims Legion Park Landfill
 Gaston County, NC

Figure 1



Source: 1. North Carolina One Map
ftp://ftp.nconemap.com/outgoing/raster/local_imagery/gaston2009/sid/
 2. Contours, 2 ft, NCDOT GIS Branch, March 10, 2005

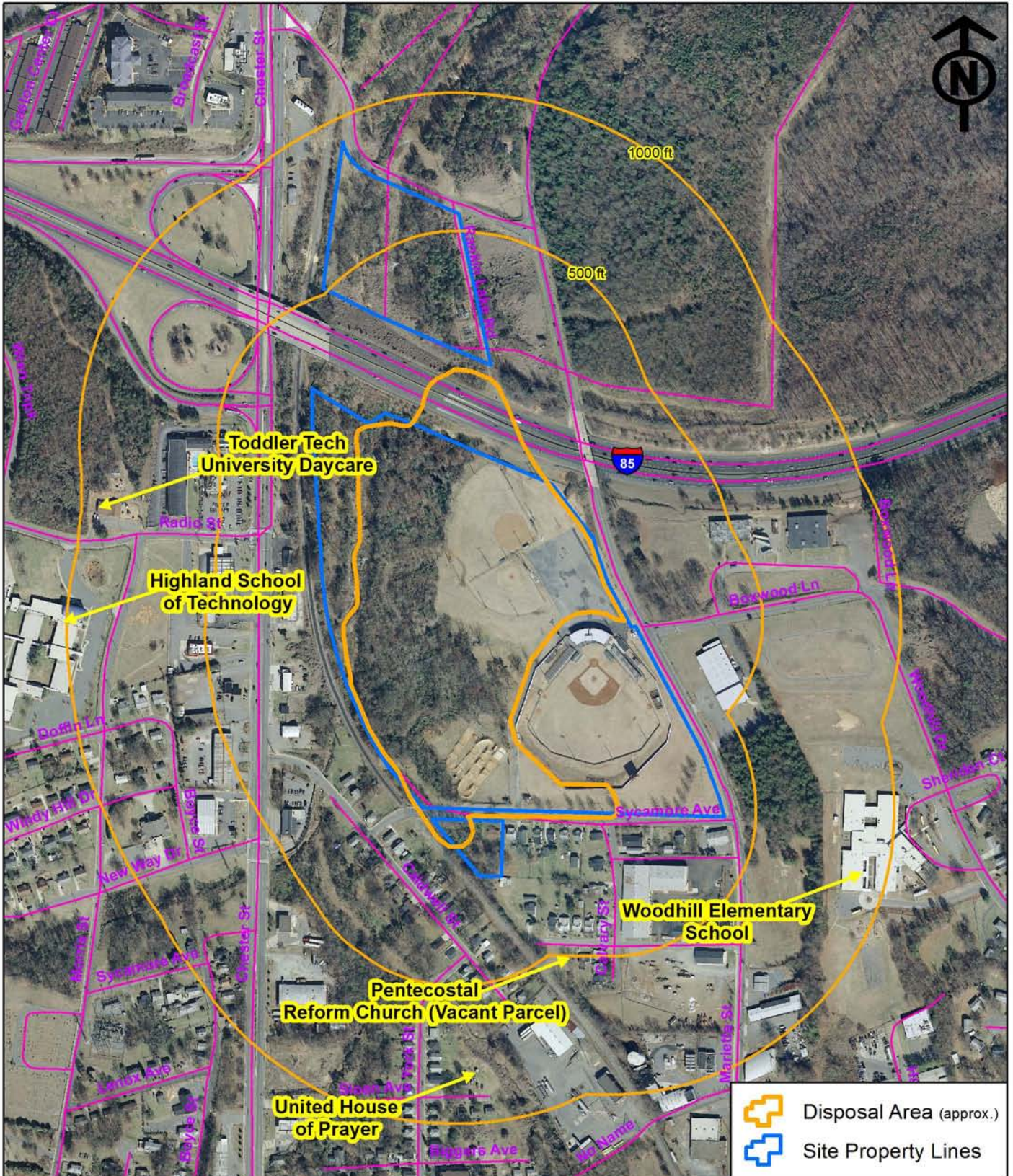


NCDENR
 OLD LANDFILL ASSESSMENT

Sims Legion Park Landfill
 Gaston County, NC

SITE MAP

Figure 2A



Source: 1. North Carolina One Map
ftp://ftp.nconemap.com/outgoing/raster/local_imagery/gaston2009/sid/



Scale: 1:6,000

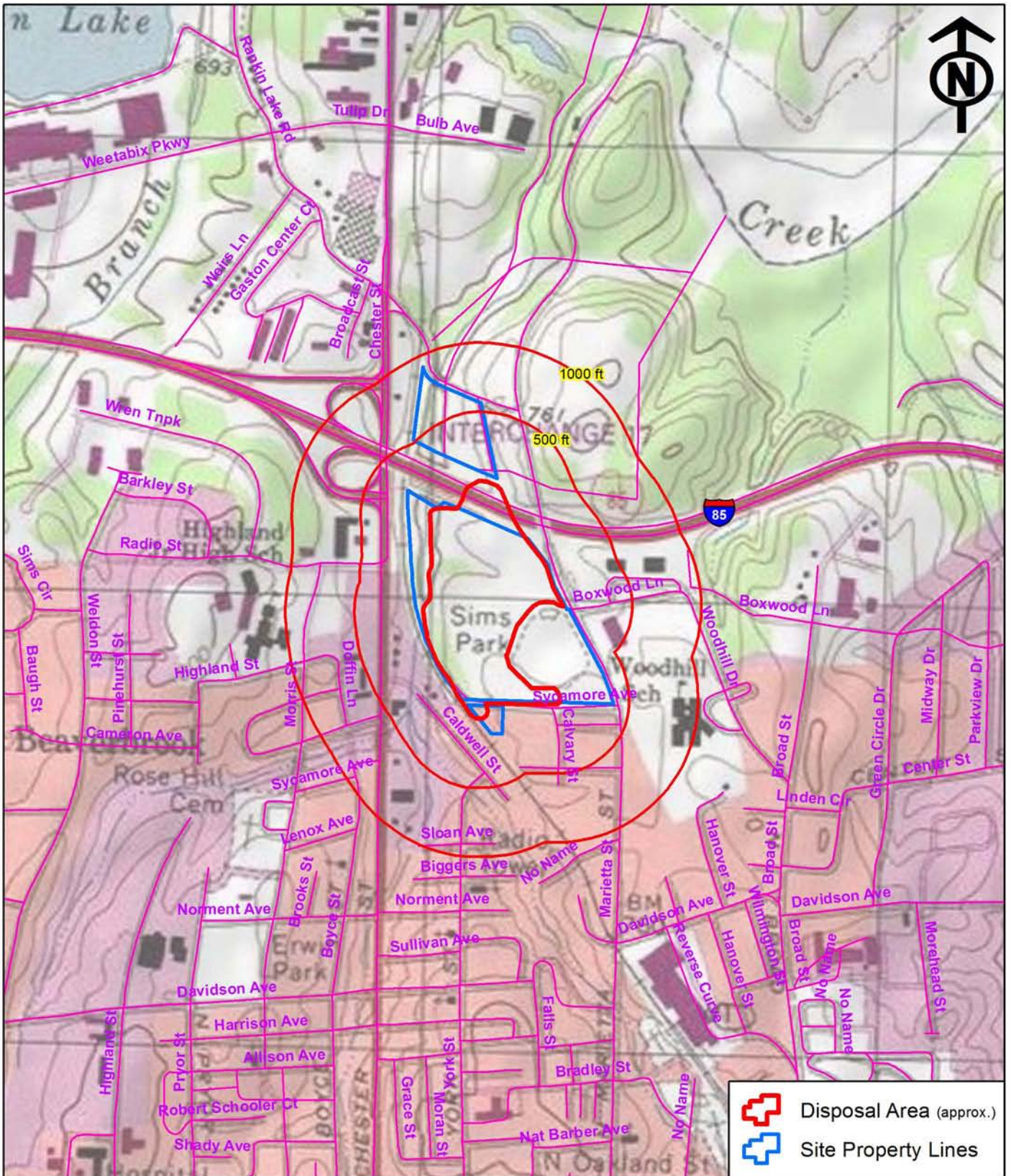


NCDENR
OLD LANDFILL ASSESSMENT

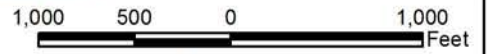
Sims Legion Park Landfill
Gaston County, NC

SITE MAP

Figure 2B



Source: 1. USGS 7.5' Quadrangle, Gastonia North NC, 1993
 Topography Based on Aerial Photos Taken 1969
 Contour Intervals = 20 ft



Scale: 1:12,000

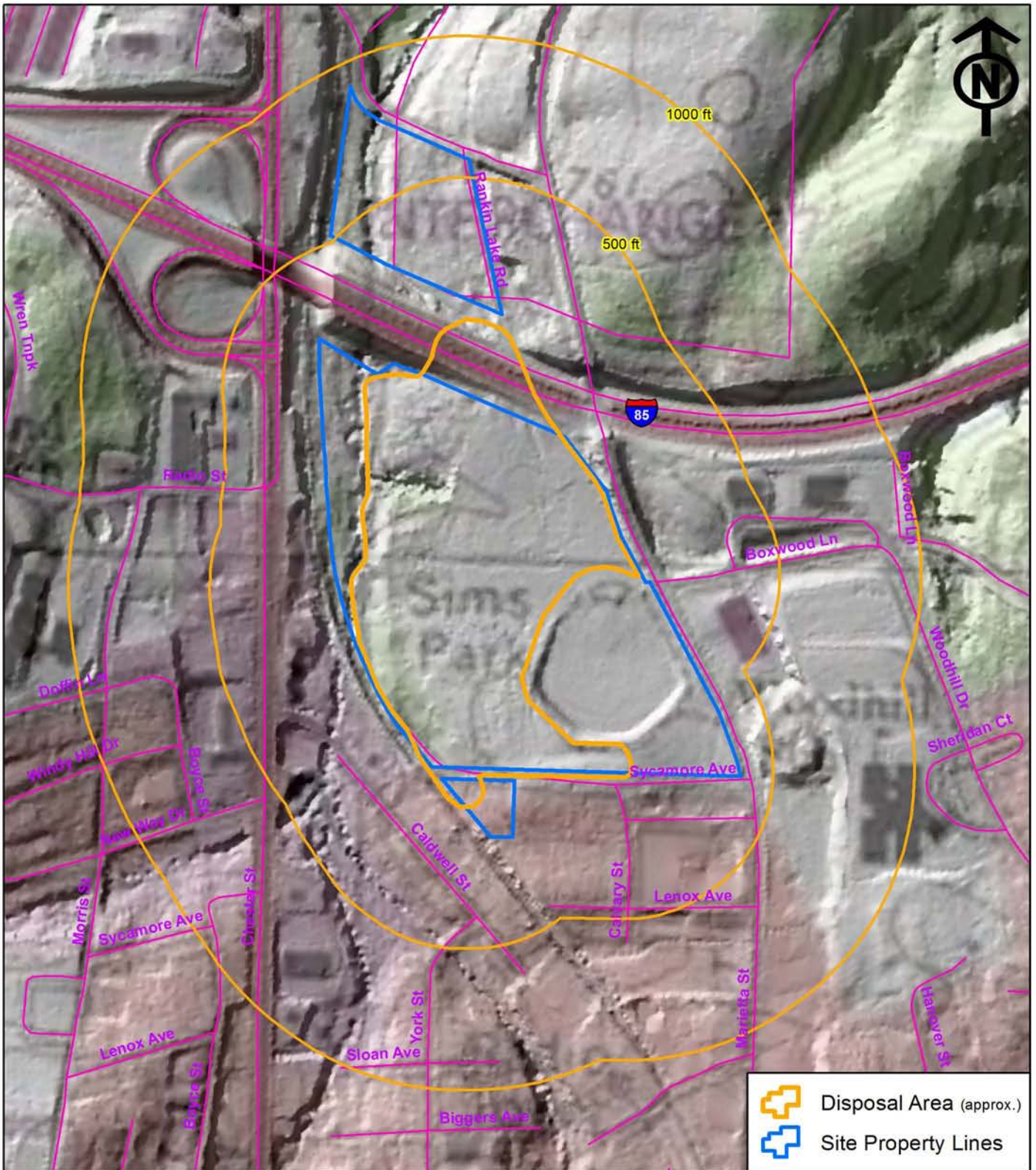


NCDENR
 OLD LANDFILL ASSESSMENT

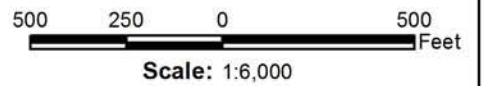
Sims Legion Park Landfill
 Gaston County, NC

VICINITY MAP

Figure 3



Source: 1. USGS 7.5' Quadrangle, Gastonia North NC, 1993
 Topography Based on Aerial Photos Taken 1969
 Contour Intervals = 20 ft
 2. Bare Earth LiDAR, Gaston County NC,
 NC FloodPlain Mapping (8/17/05)

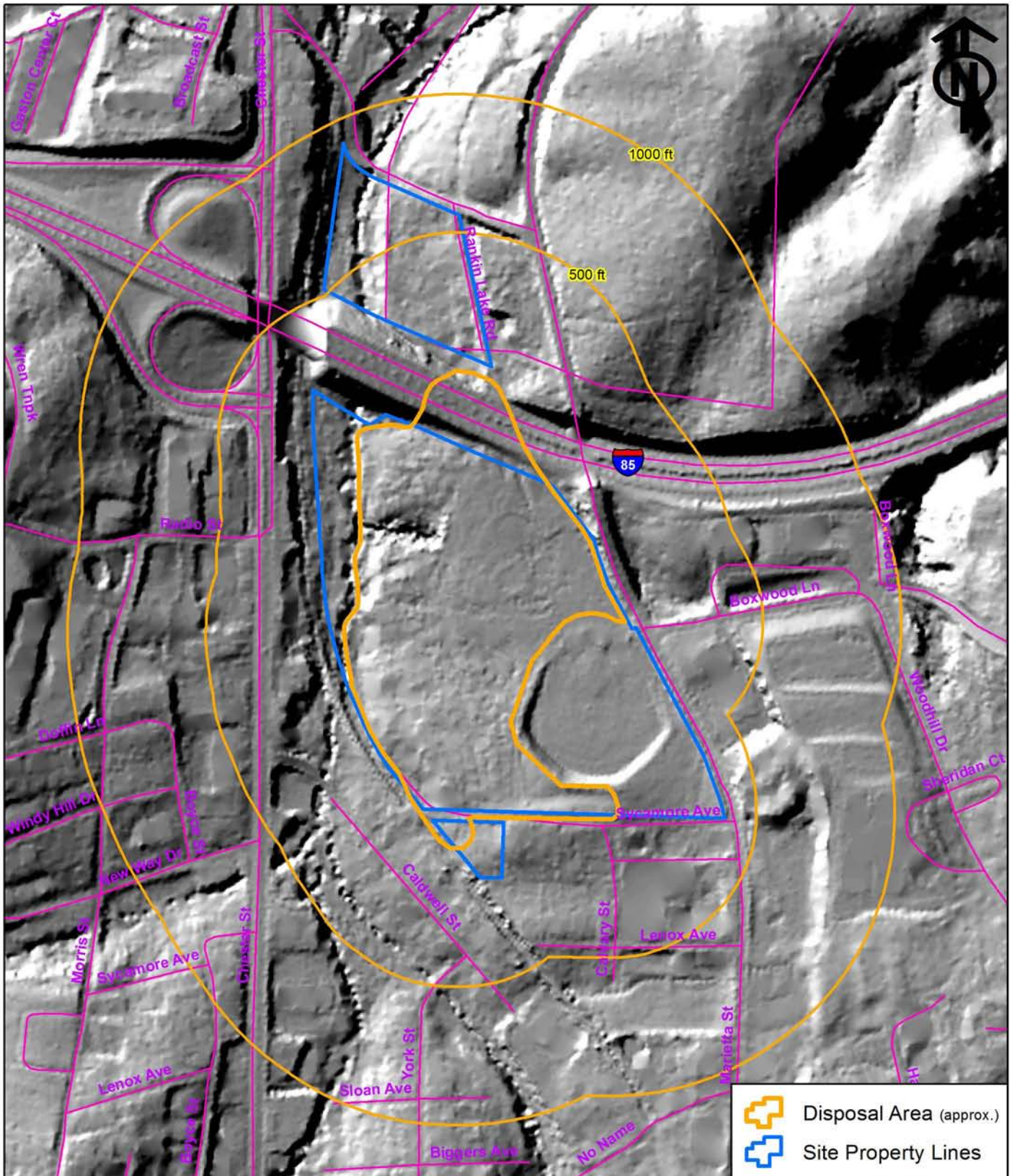


NCDENR
 OLD LANDFILL ASSESSMENT

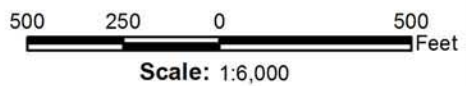
Sims Legion Park Landfill
 Gaston County, NC

TOPOGRAPHIC MAP
 OVERLAID ON LiDAR
 SHADED RELIEF

Figure 4



Source: 1. Bare Earth LiDAR, Gaston County NC,
NC FloodPlain Mapping (8/17/05)



-  Disposal Area (approx.)
-  Site Property Lines



NCDENR
OLD LANDFILL ASSESSMENT

Sims Legion Park Landfill
Gaston County, NC

LiDAR SHADED RELIEF

Figure 5

APPENDIX A
FIELD RECONNAISSANCE SHEET

NCDENR Old Landfill Assessment

FIELD RECONNAISSANCE SHEET

Site visit performed by: Ben Bradley & Cameron Greenhaw
Date and time: December 21, 2010 1300
Weather: Sunny - Cool 50s
Escort (with title and organization): No escort
Project Task No. Schnabel Project No.: 06210002. 4Z

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.	<u>No ID Assigned</u>
Site Name:	<u>Sims Legion Park Landfill</u>
Site Address:	<u>1349 Rankin Lake Rd, Gastonia, NC 28053</u>
County:	<u>Gaston</u>
Owner address:	<u>P.O. Box 1748, Gastonia, NC 28053</u>
Owner phone number:	<u>704-866-6719</u>

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) Southern part of site.

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

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? No

Are there any indications of former onsite buildings? _____

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

Baseball fields, parking lot, concession stand/
ticket booth, bike park.

Current Use of Site and Disposal Areas

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

Recreational

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

Grass, asphalt, dirt, deciduous trees
five to six inches diameter.

Available utilities on site and location:

Utility	Provided by	Location of Utility
Electricity <input checked="" type="radio"/> Y or N		
Natural Gas <input type="radio"/> Y or N		
Water <input checked="" type="radio"/> Y or N		
Sewer <input checked="" type="radio"/> Y or N		
Solid Waste <input type="radio"/> 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*
W. Central D.A.	5'	sand	slow flow	clear
W. boundary	5-7'	sand	slow flow	clear
		*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*
		None observed		
		*Swamp, Poor Drainage, Lake, Pond		*Clear, Cloudy, Muddy

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

slopes westward.

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	I-85	DTI		
Southern	Park	DTI		
Eastern	Commercial	DTI		
Western	Commercial	V	slow flowing	clear
	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: Sycamore, Marietta, I-85

Access to Disposal Area: Marietta St.

General slope and topography of Disposal Area: slopes westward

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):

Grass, baseball fields, deciduous trees five to six feet diameter.

Erosion: Erosional gullies near drainage on west central part of disposal area.

Cemetery: None

Slope failure: None

Seeps: None

Odor: None

Stained Soil: None

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

Hummocks, depressions

Exposed Debris: Tires, fabric, concrete, cinder blocks, plastic sheeting, metal debris

Physical Barriers at Disposal Area Boundary: I-85

Potential Landfill Gas Migration Pathways: Sewer, stormwater, and water lines, underground electric, building on slab, dugouts.

Physical barriers to Site Area: None

Physical barriers to Disposal Area: Interstate 85

Evidence of Human Activity: Baseball fields, parking lots, bike park, concession ticket booth, stadium

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?

City of Gastonia uses property for recreational purposes.

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.

Commercial & residential

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	Side - gradient
South	Residential	Side - to down gradient
East	Wooded, commercial	up - gradient
West	Commercial	down - gradient

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

Commercial & Residential

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:

Unnamed intermittent streams flow into unnamed
perennial stream from the south.

Photos

Photos to be taken of:

	(<input checked="" type="checkbox"/>)
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"/>

APPENDIX B
TAX RECORDS



Gaston County, NC

Office of the Director of Revenue, GIS Division

Disclaimer: The information provided is not to be considered as a Legal Document or Description. The Map and Parcel Data is believed to be accurate,

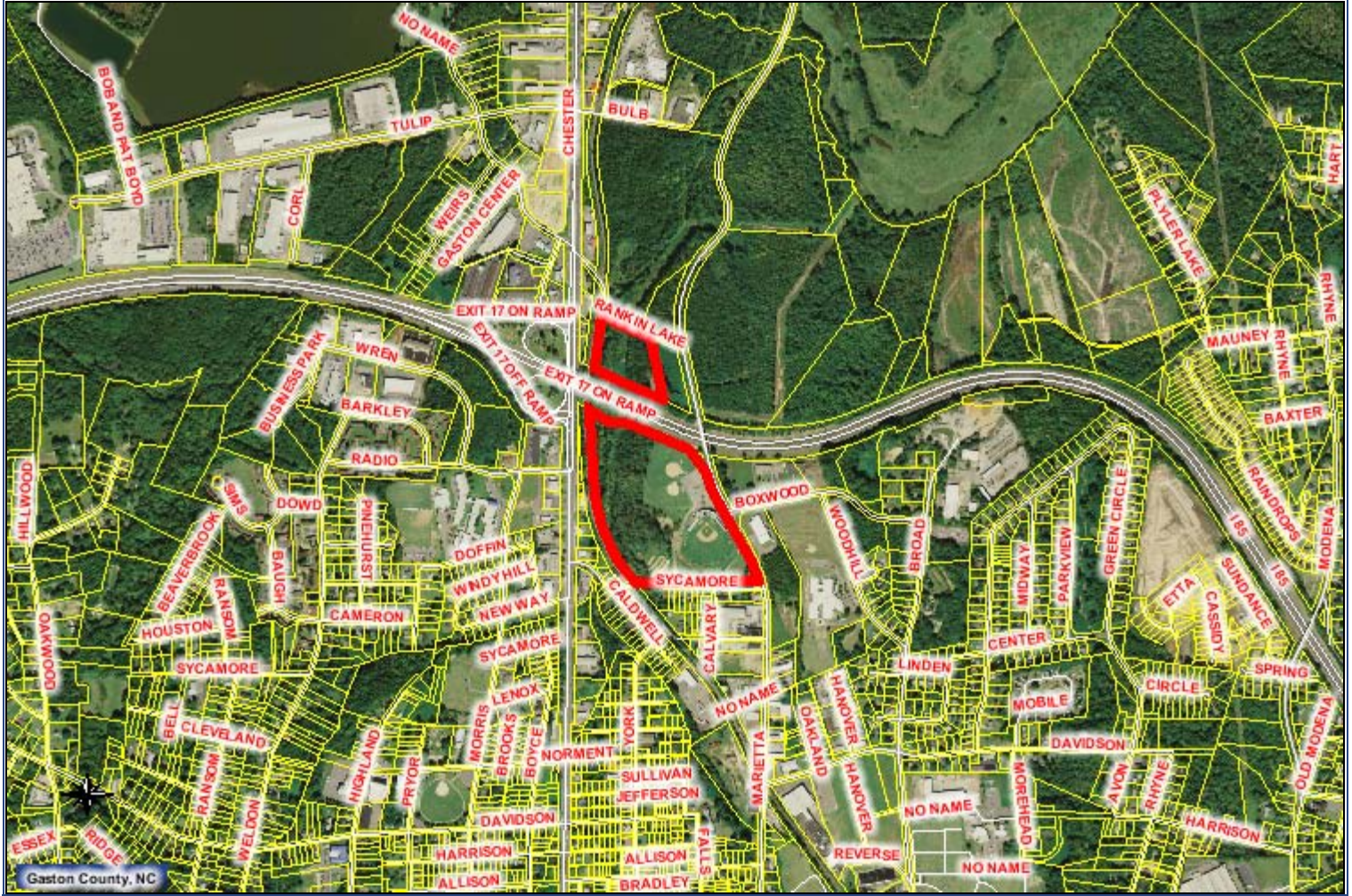
but Gaston County does not guarantee its accuracy.

Values based on last general reappraisal - 2007

Print Date: 12/15/2010



Print Scale 1:21314 or 1" = 1776'



PARCEL INFORMATION

<p>PID #: 100220 PIN #: 3546-74-8372 NEIGH.HOOD #: GA031 NEIGH.HOOD NAME: NORTH MARIETTA STREET</p>	<p>PROPERTY ADDRESS: 1349 RANKIN LAKE RD DEED BOOK: 1074 DEED PAGE: 0652 DEED TYPE: WD SALES AMOUNT: 0 DEED RECORDING DATE: 06/14/1972 PLAT BOOK: PLAT PAGE: LEGAL DESC 1: SIMS LEGION PARK LEGAL DESC 2:</p>	<p>BASEMENT: NO # BEDROOMS: 0 # BATHS: 0 MULTI-STRUCTURES: NO ACREAGE: 38.61</p>
<p>OWNER ID #: 00337969 CURRENT OWNER 1: GASTONIA CITY OF CURRENT OWNER 2: MAILING ADDRESS 1: P O BOX 1748 MAILING ADDRESS 2: CITY: GASTONIA STATE: NC ZIP CODE: 28053-1748 JAN1 OWNER 1: GASTONIA CITY OF</p>	<p>STRUCTURE CODE #: STRUCTURE TYPE: STANDS/CLUBHOUSE/PRESS BX YEAR BUILT: 1960</p>	<p>TAX DISTRICT: GASTONIA CITY TOWNSHIP CODE: 10 TOWNSHIP DESC: GASTONIA TOWNSHIP VOLUNTARY AG DIST: No LAND VALUE: \$397,525 IMPV. VALUE: \$285,743 TOTAL VALUE: \$683,268 PRESENT USE VALUE ASSESSMENT: NO</p>



Gaston County, NC

Office of the Director of Revenue, GIS Division

Disclaimer: The information provided is not to be considered as a Legal Document or Description. The Map and Parcel Data is believed to be accurate,

but Gaston County does not guarantee its accuracy.

Values based on last general reappraisal - 2007

Print Date: 1/11/2011



Print Scale 1:1816 or 1" = 151'



PARCEL INFORMATION

<p>PID #: 100258 PIN #: 3546-73-8496 NEIGH.HOOD #: 5A010 NEIGH.HOOD NAME: MARIETTA ST NORTH</p>	<p>PROPERTY ADDRESS: 215 W SYCAMORE AVE DEED BOOK: 096E DEED PAGE: 0830 DEED TYPE: WB SALES AMOUNT: 0 DEED RECORDING DATE: 07/15/1996 PLAT BOOK: 007 PLAT PAGE: 100 LEGAL DESC 1: BROWN WILSON LEGAL DESC 2: L 54</p>	<p>BASEMENT: NO # BEDROOMS: 2 # BATHS: 1 MULTI-STRUCTURES: NO ACREAGE: 0.77</p>
<p>OWNER ID #: 03979605 CURRENT OWNER 1: BOHANNON ELLA R LIFE ESTATE CURRENT OWNER 2: MAILING ADDRESS 1: C/O J ED STOWE MAILING ADDRESS 2: PO BOX 2379 CITY: GASTONIA STATE: NC ZIP CODE: 280553</p>	<p>STRUCTURE CODE #: R1 STRUCTURE TYPE: RES 1 STORY YEAR BUILT: 1985</p>	<p>TAX DISTRICT: GASTONIA CITY TOWNSHIP CODE: 10 TOWNSHIP DESC: GASTONIA TOWNSHIP VOLUNTARY AG DIST: No LAND VALUE: \$12,390 IMPV. VALUE: \$35,892 TOTAL VALUE: \$48,282 PRESENT USE VALUE ASSESSMENT: NO</p>
<p>JAN1 OWNER 1: BOHANNON ELLA R LIFE ESTATE</p>		

APPENDIX C
RECORDS OF COMMUNICATION
SITE VISIT PERMISSION LETTER



December 20, 2010

Mr. James Palenick
P.O. Box 1748
Gastonia, NC 28053

Dear Mr. Palenick,

The North Carolina Department of Environment and Natural Resources (NCDENR) has 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 at Sims Legion Park (Tax Parcel: 3546-74-8372) has been identified as a potential location of one of these old unlined landfills. We would like to visit your property and ask questions related to the history of the property to help prepare a report for the NCDENR. 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

BB/GR

Attachment: Property Owner Letter from NCDENR

cc: Bruce Lefler, NCDENR

G:\2006_projects\06210002_(NCDENR_Old_Unlined_Landfills)\Task_42_Gaston_Co\SimsLegionParkLandfills\Report\Final\PropertyOwnerIntroLetter-JamesPalenick-2010-12-20.doc



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



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

CONVERSATION RECORD

CONTACT:	Mr. James Palenick	ORGANIZATION:	City of Gastonia
TITLE:	City Manager		
ADDRESS:	P.O. Box 1748 Gastonia, NC 28053	DATE:	December 20, 2010 1430
PHONE:	704-866-6719	TIME:	
PROJECT NAME:	NC DENR Old Unlined Landfill Assessment	PROJECT NO.:	06210002.42
SITE NAME:	Sims Legion Park Landfill	NC DENR ID NO.:	No ID Assigned
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. Palenick is the Gastonia City Manager.

PERMISSION GRANTED TO ACCESS PROPERTY: Yes

LOCATION OF LANDFILL: Sims Legion Park off Marietta Street.

WHO OWNS THE LANDFILL PROPERTY: City of Gastonia

LIMITS OF LANDFILL: The landfill may extend beneath Interstate 85, but does not go beneath the stadium.

LANDFILL OPERATION DATES: From about 1930 to the late 1950's.

WHO PLACED WASTE IN LANDFILL: City of Gastonia

MATERIALS PLACED IN LANDFILL: Does not know

HOW WAS MATERIAL PLACED IN LANDFILL: Does not know

AVAILABLE RECORDS: None to his knowledge

PRESENT AND PRIOR LAND USE: Stadium has been there since the 1950's and ball fields since the 1970's.

PUBLIC OR PRIVATE WATER SUPPLY: Public

OTHER CONTACTS: No

ADDITIONAL INFORMATION:

About four to six feet of fill was place on top of the disposal material.
 The stadium is not built on disposal material.



CONVERSATION RECORD

CONTACT:	Ms. Marcy Smith	ORGANIZATION:	Gaston County
TITLE:	Solid Waste Director		
ADDRESS:	3155 Philadelphia Church Road, Dallas, NC 28034	DATE:	January 26, 2011
		TIME:	
PHONE:	704-922-0267	FAX:	
PROJECT NAME:	NC DENR Old Unlined Landfill Assessment	PROJECT NO.:	06210002.42
SITE NAME:	Sims Legion Park Landfill	NC DENR ID NO.:	No ID Assigned
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: Ms. Smith is the Solid Waste Director for Gaston County.

PERMISSION GRANTED TO ACCESS PROPERTY: NA

LOCATION OF LANDFILL: Gastonia

WHO OWNS THE LANDFILL PROPERTY: Does not know

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

AVAILABLE RECORDS: Does not know

PRESENT AND PRIOR LAND USE: Does not know

PUBLIC OR PRIVATE WATER SUPPLY: Does not know

OTHER CONTACTS: Mr. Ray Maxwell, Gaston County Public Works Director

ADDITIONAL INFORMATION:



CONVERSATION RECORD

CONTACT:	Mr. Ray Maxwell	ORGANIZATION:	Gaston County
TITLE:	Public Works Director		
ADDRESS:	P.O. Box 1578 Gastonia, NC 28053	DATE:	January 26, 2011
		TIME:	
PHONE:	704-862-7504	FAX:	
PROJECT NAME:	NC DENR Old Unlined Landfill Assessment	PROJECT NO.:	06210002.42
SITE NAME:	Sims Legion Park Landfill	NC DENR ID NO.:	No ID Assigned
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. Maxwell is the Gaston County Public Works Director

PERMISSION GRANTED TO ACCESS PROPERTY: NA

LOCATION OF LANDFILL: Gastonia

WHO OWNS THE LANDFILL PROPERTY: Does not know

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

AVAILABLE RECORDS: Does not know

PRESENT AND PRIOR LAND USE: Does not know

PUBLIC OR PRIVATE WATER SUPPLY: Does not know

OTHER CONTACTS: Ms. Marcy Smith, Gaston County Solid Waste Director

ADDITIONAL INFORMATION:

APPENDIX D
SITE PHOTOGRAPHS



PHOTOGRAPH No.: 1
Photo Taken: 12-21-10
LOCATION:
Sims Legion Park Landfill Disposal Area entrance off Marietta Street.
COMMENTS:



PHOTOGRAPH No.: 2
Photo Taken: 12-21-10
LOCATION:
Southeastern part of Site.
COMMENTS:
Sims Legion Park stadium.

Sims Legion Park Landfill



PHOTOGRAPH No.: 3
Photo Taken: 12-21-10
LOCATION:
Eastern part of Disposal Area.
COMMENTS:
Parking lot



PHOTOGRAPH No.: 4
Photo Taken: 12-21-10
LOCATION:
Northwest central part of Disposal Area.
COMMENTS:
Erosional gully with exposed disposal material including plastic sheeting, metal, tires, and concrete.



PHOTOGRAPH No.: 5 Photo Taken: 12-21-10
LOCATION: Western part of Disposal Area.
COMMENTS: Hummocky topography and depressions.



PHOTOGRAPH No.: 6 Photo Taken: 12-21-10
LOCATION: Western part of Disposal Area.
COMMENTS: Exposed disposal material including tires, cinder blocks, and metal debris.



PHOTOGRAPH No.: 7 Photo Taken: 12-21-10
LOCATION: Central part of Disposal Area.
COMMENTS: Wooden utility poles laying on the ground.



PHOTOGRAPH No.: 8 Photo Taken: 12-21-10
LOCATION: Southwestern part of Disposal Area.
COMMENTS: Bike park



PHOTOGRAPH No.: 9
Photo Taken: 12-21-10
LOCATION:
Southern boundary of Disposal Area.
COMMENTS:
Enclosed ticket booth built on a crawl space.



PHOTOGRAPH No.: 10
Photo Taken: 12-21-10
LOCATION:
Southeastern part of Site.
COMMENTS:
Dugouts located inside baseball stadium.

Sims Legion Park Landfill



PHOTOGRAPH No.: 11
Photo Taken: 12-21-10
LOCATION:
Eastern part of Disposal Area.
COMMENTS:
Underground sewer, stormwater, electric, telecommunications, and water lines located throughout the parking lot.



PHOTOGRAPH No.: 12
Photo Taken: 12-21-10
LOCATION:
Northern part of Disposal Area.
COMMENTS:
Interstate 85



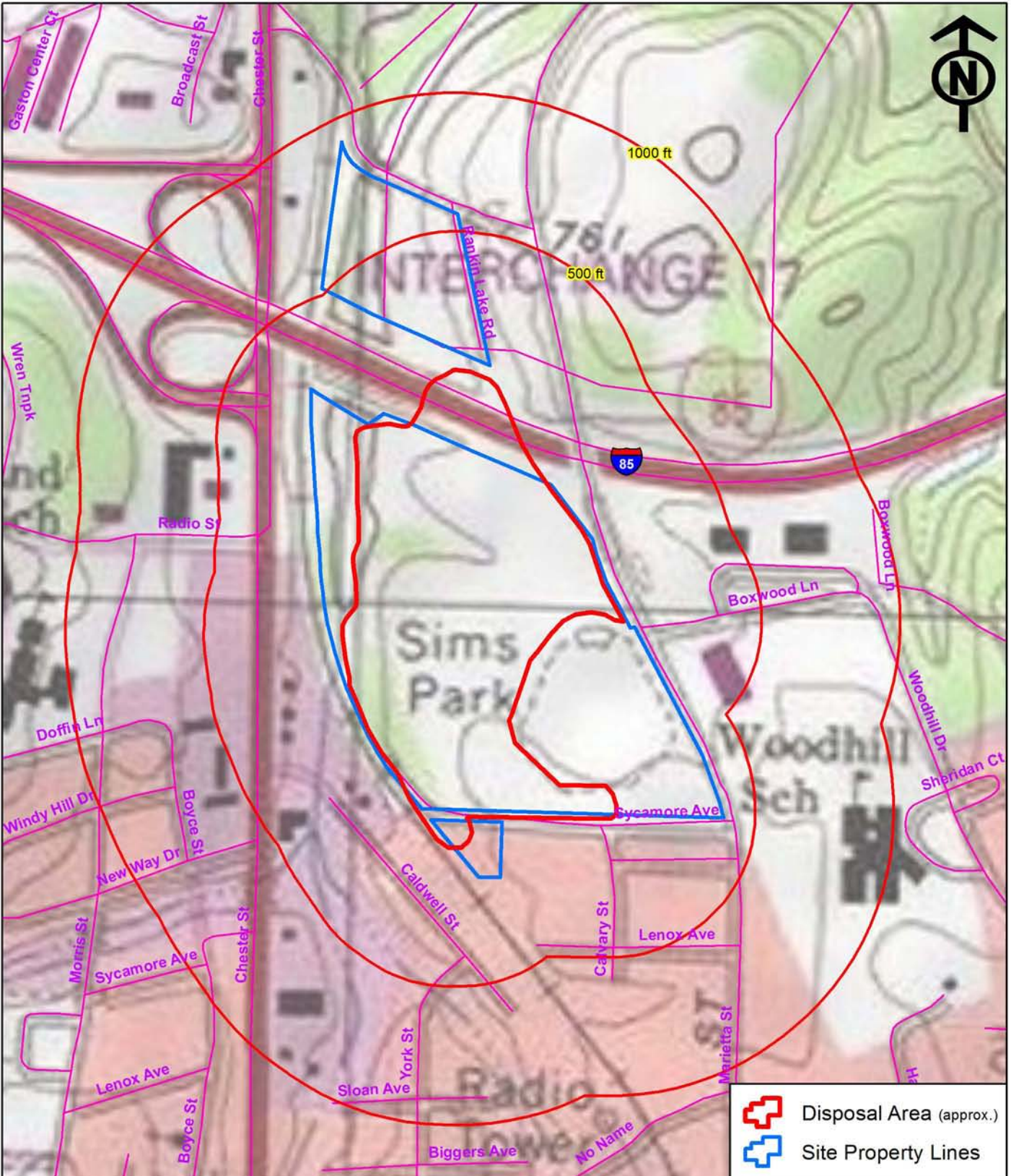
PHOTOGRAPH No.: 13
Photo Taken: 12-21-10
LOCATION:
West central part of Disposal Area.
COMMENTS:
Drainage with flowing water and exposed disposal material.



PHOTOGRAPH No.: 14
Photo Taken: 12-21-10
LOCATION:
Southern boundary of Disposal Area.
COMMENTS:
Photo taken facing toward the east.

Sims Legion Park Landfill



APPENDIX E
AERIAL PHOTOGRAPHS



Source: 1. USGS 7.5' Quadrangle, Gastonia North NC, 1993
 Topography Based on Aerial Photos Taken 1969
 Contour Intervals = 20 ft



Scale: 1:6,000

-  Disposal Area (approx.)
-  Site Property Lines

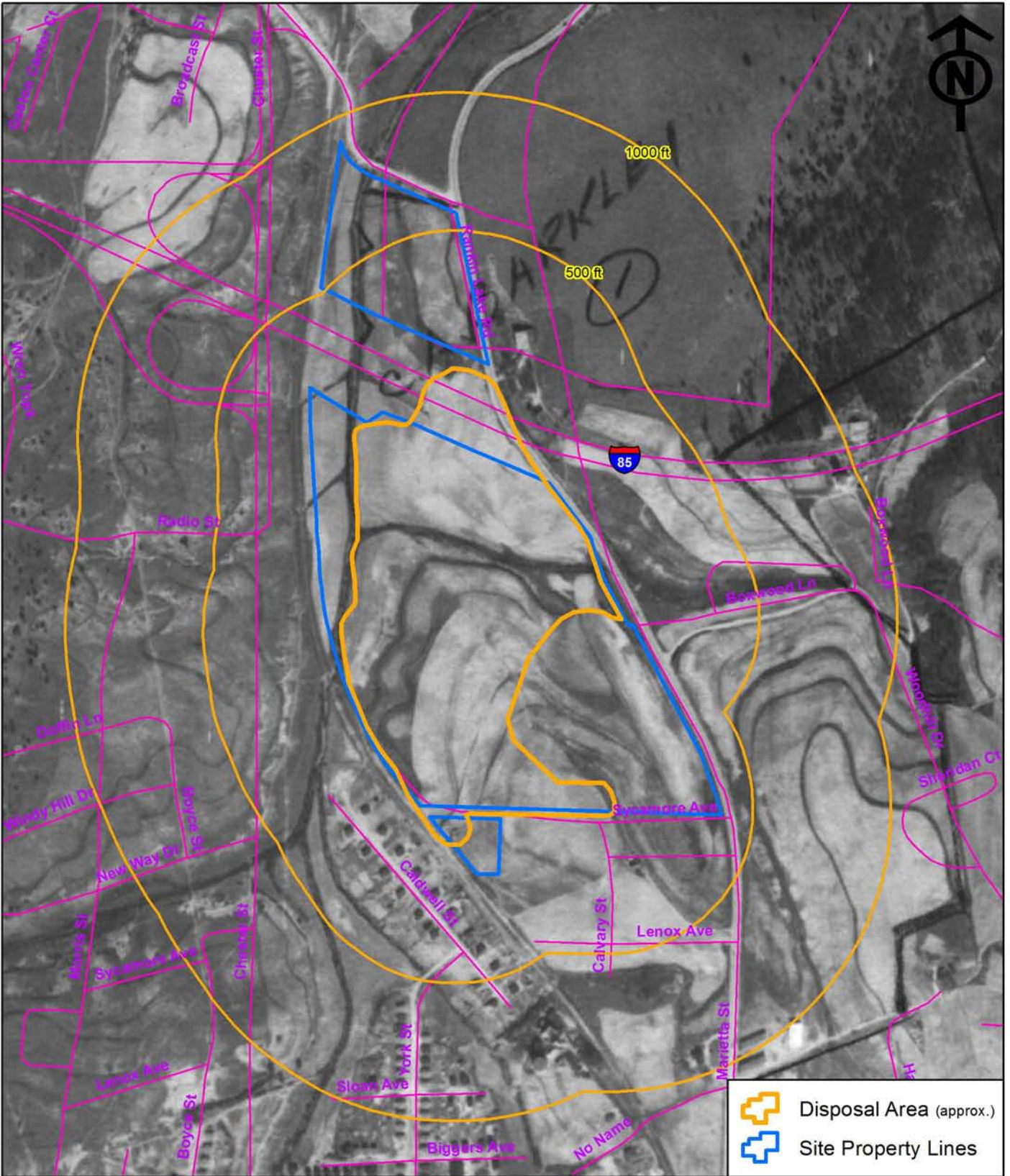


NCDENR
 OLD LANDFILL ASSESSMENT

Sims Legion Park Landfill
 Gaston County, NC

TOPOGRAPHIC MAP AT
 AERIAL PHOTO SCALE

Figure E-1



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



Scale: 1:6,000

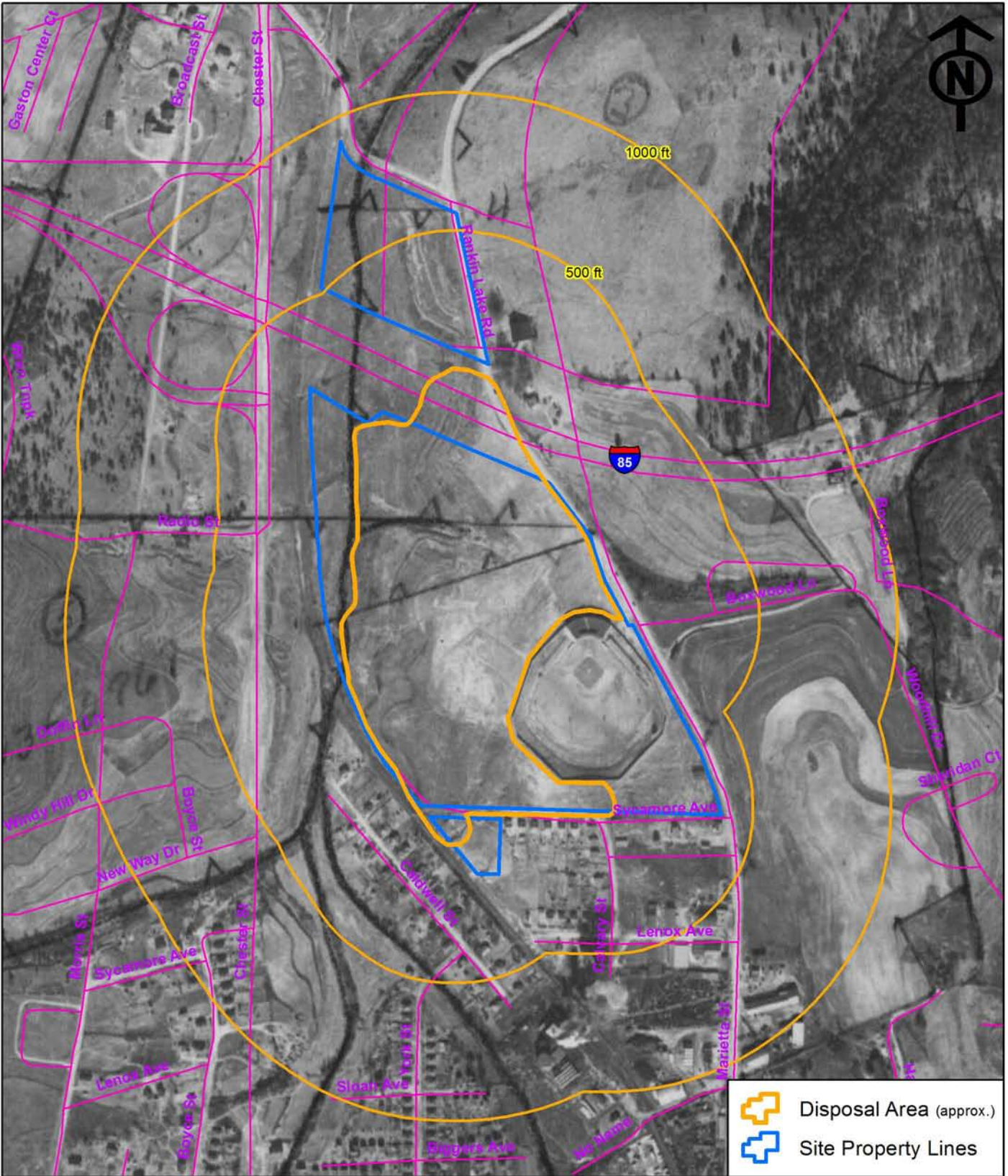


NCDENR
OLD LANDFILL ASSESSMENT

Sims Legion Park Landfill
Gaston County, NC

AERIAL PHOTO OF SITE
1938

Figure E-2



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

500 250 0 500
Feet
Scale: 1:6,000





NCDENR
OLD LANDFILL ASSESSMENT

AERIAL PHOTO OF SITE
1951

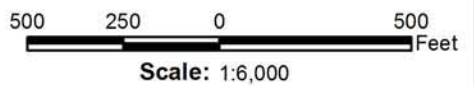
Sims Legion Park Landfill
Gaston County, NC

Figure E-3



 Disposal Area (approx.)
 Site Property Lines

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

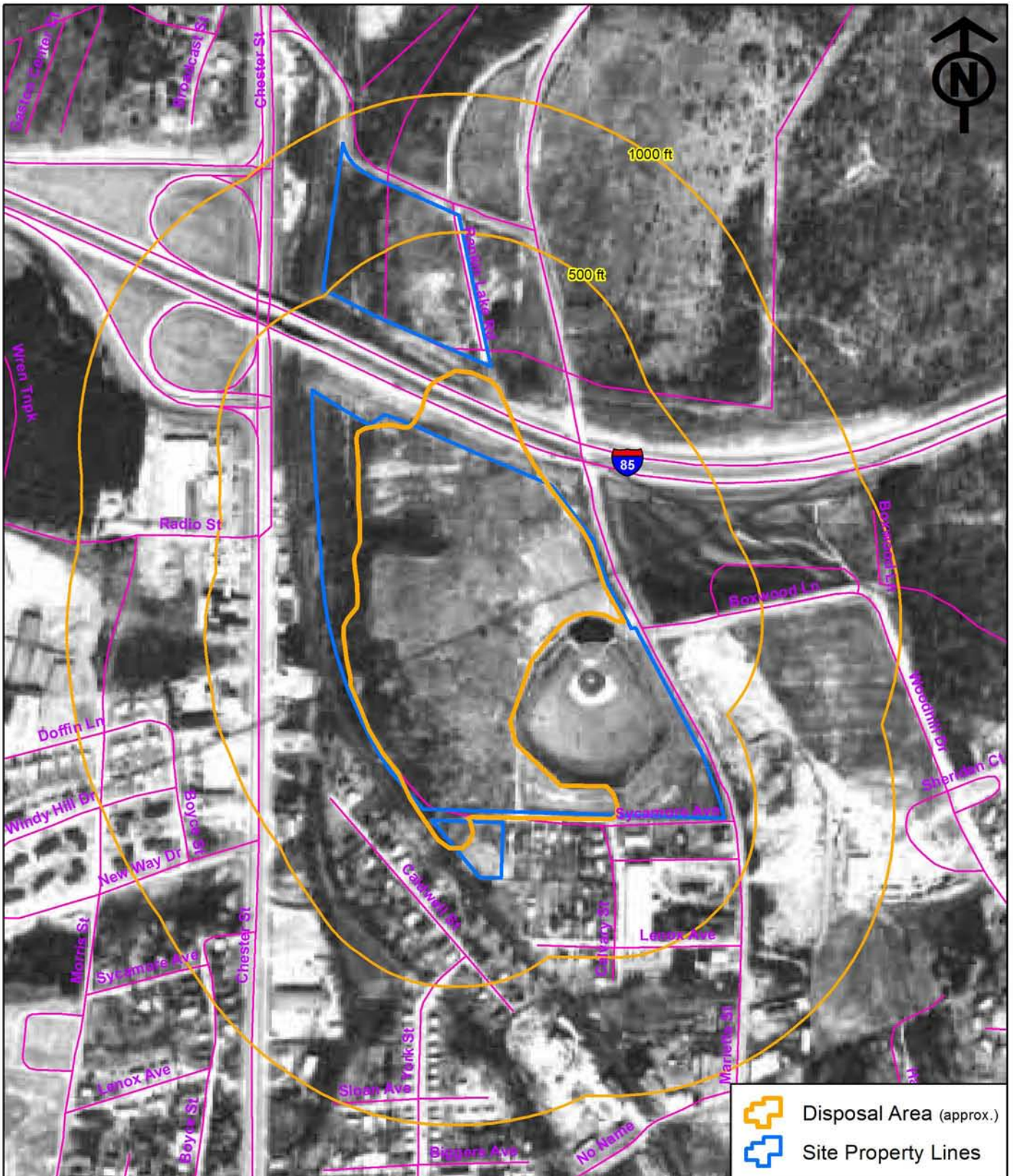


NCDENR
 OLD LANDFILL ASSESSMENT

Sims Legion Park Landfill
 Gaston County, NC

AERIAL PHOTO OF SITE
 1956

Figure E-4



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



Scale: 1:6,000

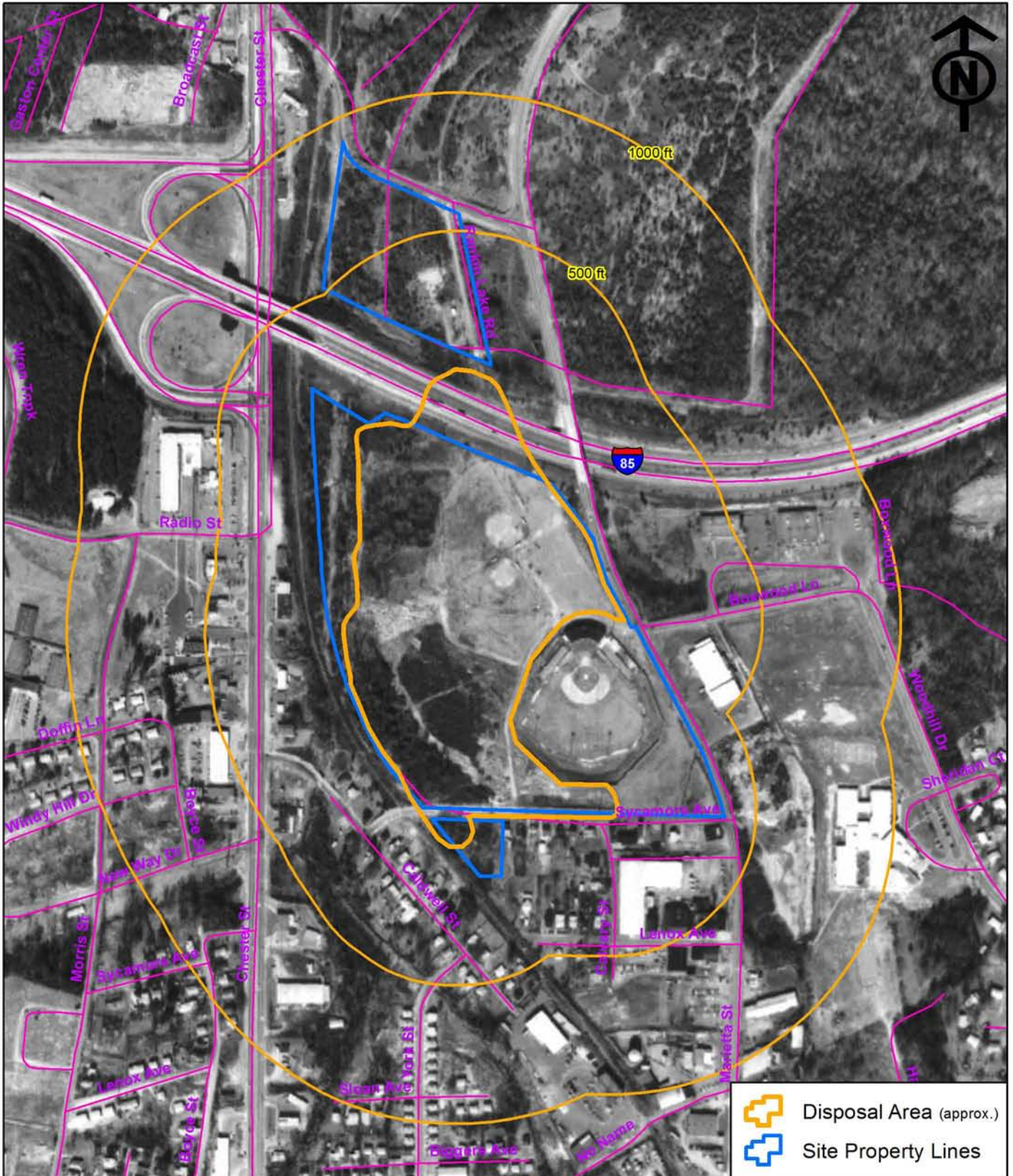




NCDENR
OLD LANDFILL ASSESSMENT

Sims Legion Park Landfill
Gaston County, NC

AERIAL PHOTO OF SITE
1968

Figure E-5



-  Disposal Area (approx.)
-  Site Property Lines

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



Scale: 1:6,000

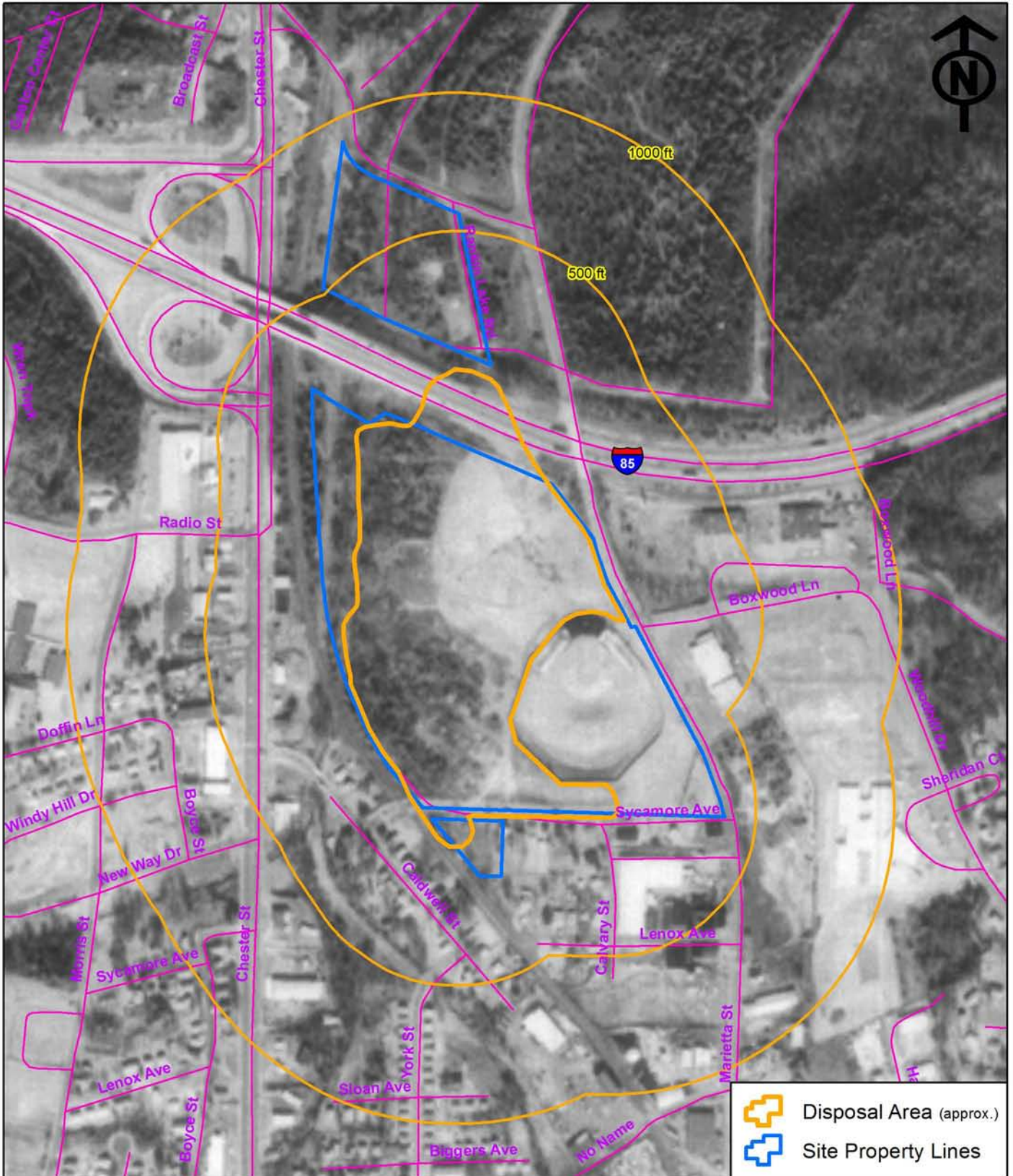


NCDENR
OLD LANDFILL ASSESSMENT

Sims Legion Park Landfill
Gaston County, NC

AERIAL PHOTO OF SITE
1979

Figure E-6



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

500 250 0 500
Feet

Scale: 1:6,000

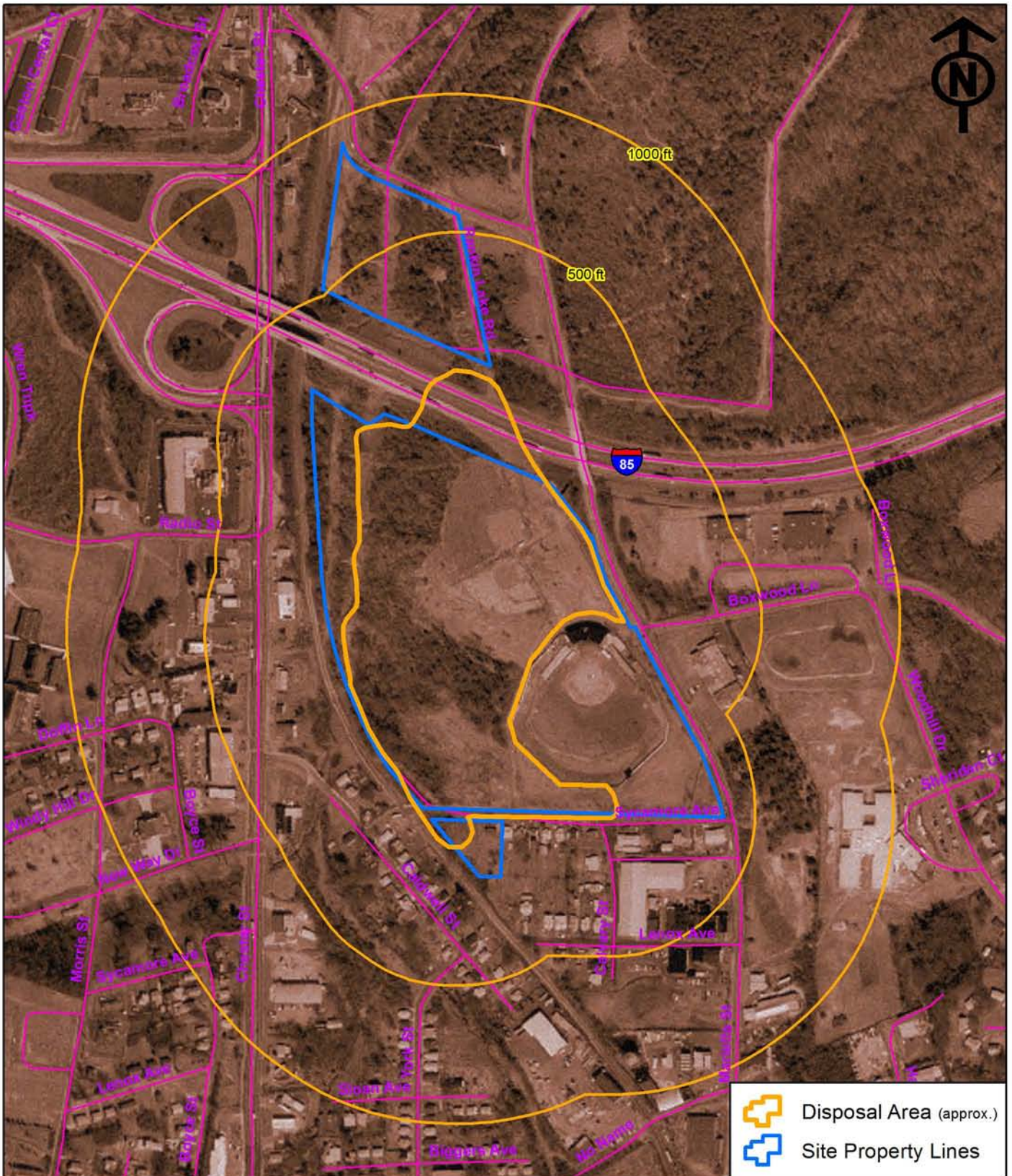


NCDENR
OLD LANDFILL ASSESSMENT

Sims Legion Park Landfill
Gaston County, NC

AERIAL PHOTO OF SITE
1984

Figure E-7



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

500 250 0 500
Feet

Scale: 1:6,000

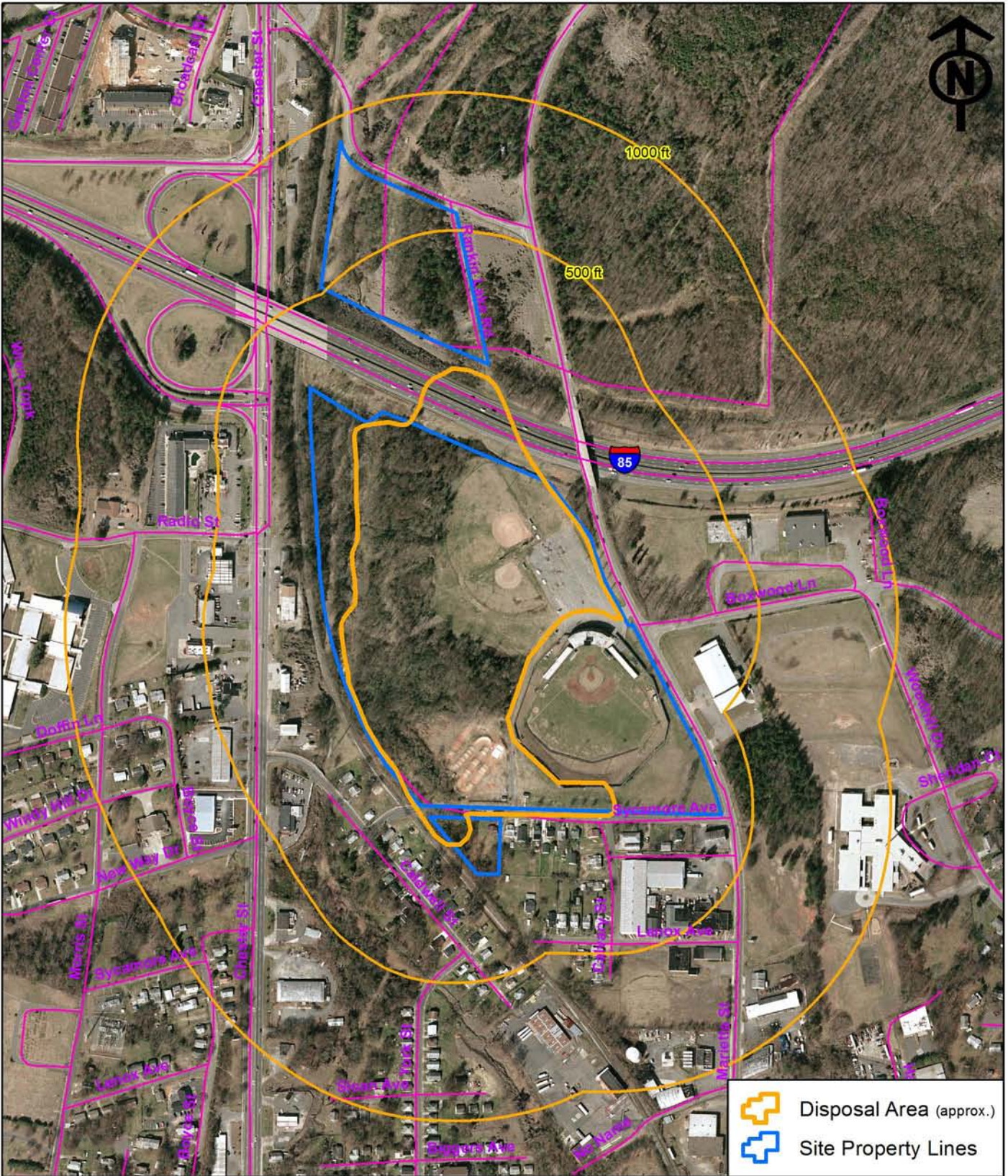


NC DENR
OLD LANDFILL ASSESSMENT

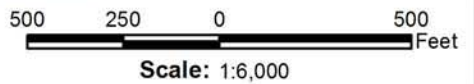
Sims Legion Park Landfill
Gaston County, NC

AERIAL PHOTO OF SITE
1993

Figure E-8



Source: 1. North Carolina One Map
ftp://ftp.nconemap.com/outgoing/raster/local_imagery/gaston2005/sid/

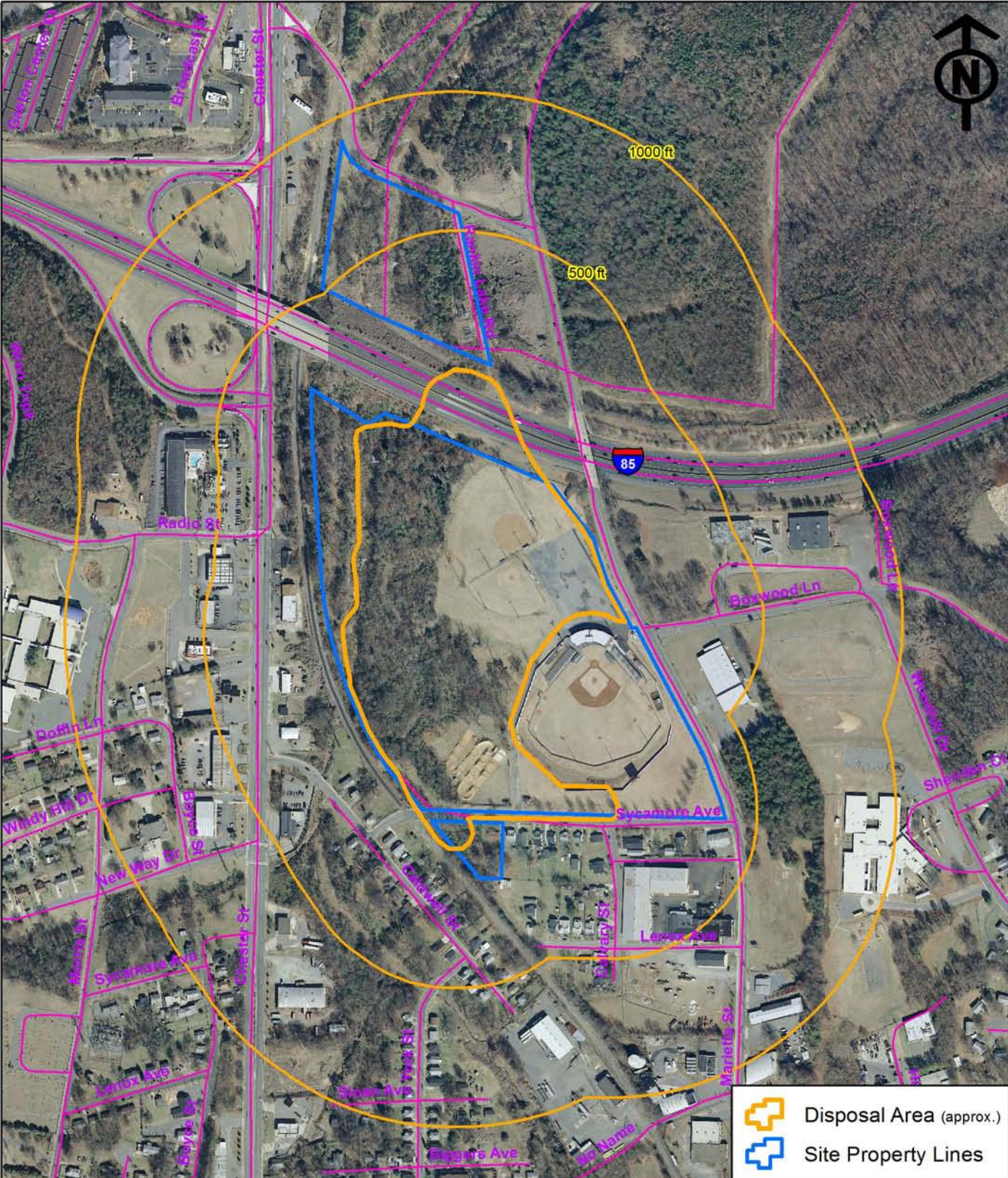




NCDENR
 OLD LANDFILL ASSESSMENT

Sims Legion Park Landfill
 Gaston County, NC

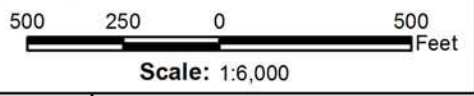
AERIAL PHOTO OF SITE
 2005

Figure E-9



-  Disposal Area (approx.)
-  Site Property Lines

Source: 1. North Carolina One Map
ftp://ftp.nconemap.com/outgoing/raster/local_imagery/gaston2009/sid/



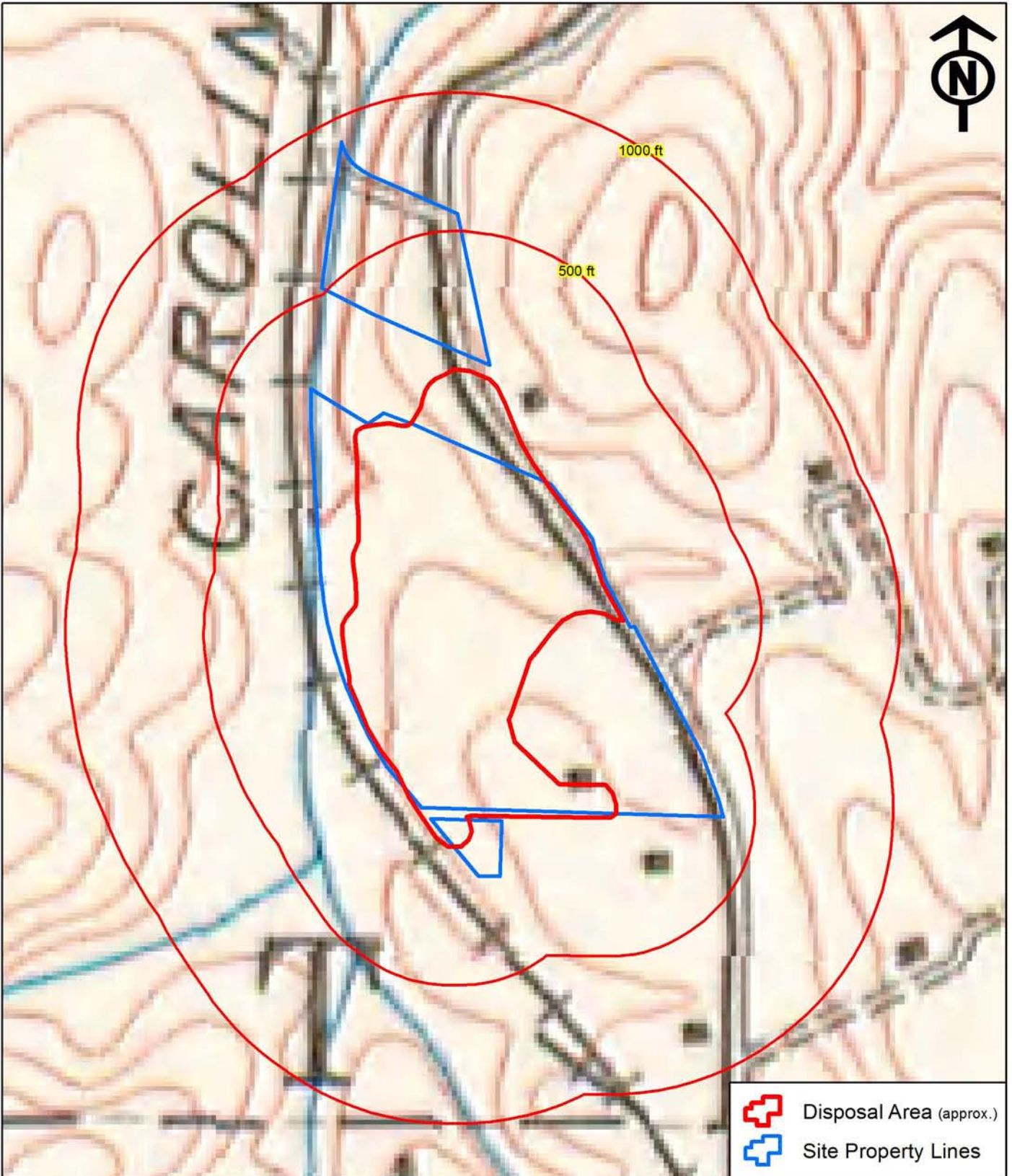
NCDENR
 OLD LANDFILL ASSESSMENT



Sims Legion Park Landfill
 Gaston County, NC

AERIAL PHOTO OF SITE
 2009

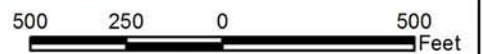
Figure E-10

APPENDIX F
SUPPORTING DOCUMENTATION



-  Disposal Area (approx.)
-  Site Property Lines

Source: 1. USGS 7.5' Quadrangle, Gastonia NC, 1914
Topography Based on Aerial Photos Taken
Contour Intervals = 20 ft



Scale: 1:6,000



NC DENR
OLD LANDFILL ASSESSMENT

Sims Legion Park Landfill
Gaston County, NC

USGS TOPOGRAPHIC MAP
1914

Appendix F