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# STATE OF NORTH CAROLINA



*Department of Environment, Health,  
and Natural Resources  
Division of Solid Waste Management  
Superfund Section*

**Swiss Bear, Inc.  
NCD 075550517**

**Phase I  
Screening Site Inspection**

**April 1991**

By:

**Greenhorne & O'Mara, Inc.**



PHASE I  
SCREEN SITE INVESTIGATION  
FOR THE  
SWISS BEAR, INC. SITE  
NEW BERN, NORTH CAROLINA

Submitted To:

State of North Carolina  
Department of Environment, Health,  
and Natural Resources  
Division of Solid Waste Management  
Raleigh, North Carolina

Prepared By:

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April 1991

**CERCLA**

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## EXECUTIVE SUMMARY

The Swiss Bear, Inc. site is located in the southeast section of the City of New Bern in Craven County, North Carolina. The site has been used as a park since 1985 when a grant from the Land and Water Conservation Fund (LWCF) made possible the grading of the site and the addition of picnic tables and benches.

The Swiss Bear, Inc. site was owned by Texaco, USA from 1952 until the late 1960s or early 1970s. While in operation, Texaco, USA had 4 to 5 above-ground storage tanks used for the storage of gasoline, as well as two associated buildings on the site. One of the buildings was used as a warehouse. When Texaco stopped operations at this site, the land was donated to the City of New Bern. Duffy Park is comprised of this parcel and two additional parcels which Swiss Bear, Inc., a private redevelopment firm, sold to the City of New Bern.

Craven County lies in the Lower Coastal Plain of Eastern North Carolina and is characterized by limestone, shell, and interlayered sand of Eocene and Oligocene ages that contain water under artesian conditions. Nearly all residents within a four-mile radius of the site receive their potable water from wells located in Cove City, approximately 15 miles west of New Bern. Approximately 7,921 residents are served by this municipal water system. Bridgeton residents are served by community wells, which are operated by the Township of Bridgeton and serve approximately 855 residents. The remaining population within the four-mile radius are assumed to be served by domestic wells.

The soils on the site are from the Tarboro-Seabrook-Arapahoe soil association. This association is found on nearly level, gently sloping terrain with sandy loam soils. The site's slope is approximately 1% and drains to the south and southeast to the Neuse and Trent Rivers. The confluence of these two rivers is just south of the site. From this confluence, the Neuse River continues to flow south until it empties into Pamlico Sound and ultimately to the Atlantic Ocean. There are numerous wetlands associated with the Neuse and Trent River systems.

The Preliminary Assessment (PA) of the site was conducted on January 18, 1985 by the NCDEHNR. The PA report identified the potential burial of liquid sludge on the site as a result of cleaning the storage tank bottoms. Prior to 1980, it was common practice to bury sludge removed from such petroleum storage tanks. The NCDEHNR recommended that the site be assigned a medium priority for inspection. Consequently, on October 4, 1990, Greenhorne & O'Mara, Inc., under contract with NCDEHNR, conducted a Phase I Screening Site Investigation (SSI).

This site is not recommended for a Phase II investigation based upon 1) the lack of evidence or documentation that any waste was buried on the site 2) conversations with Nancy Bottorf, Director, Department of Parks and Recreation, of the good condition of the above-ground storage tanks and the cement pads they were mounted on, 3) the fact that at the time the site was graded for development into a park (Duffy Park) there was no sign of contamination or spoil on the site, and 4) the amount of sludge removed from the storage tanks (approximately 280,000 pounds) is assumed to be too large an amount to have been buried on this 1-acre site which housed 4-5 storage tanks as well as two buildings.

## 1.0 BACKGROUND

### 1.1 Location

The site is located in the southeast section of the Town of New Bern in Craven County, North Carolina (Appendix A, Figure 1). The site is bordered to the east by the Neuse River and to the west by East Front Street. The site can be found on the New Bern, North Carolina quadrangle, N.C. USGS 7.5' (Appendix A, Figure 2). The coordinates of the site are 35° 06' 18" N latitude and 77° 02' 08" W longitude. From City Hall the site can be accessed by taking Craven Street south and then going east on Tryon Palace Drive until it intersects with East Front Street.

### 1.2 Site Layout

The Swiss Bear, Inc. site lies just north of the confluence of the Neuse and Trent Rivers. The eastern border of this approximately one-acre site is the Neuse River and the western border of the site is East Front Street. To the south, Tryon Palace Drive separates Union Point Park from the site (Ref. 1). The area surrounding the site is zoned a Central Business District (B-1 and B-2), with residential (RA), commercial (B-3), and office and institutional (O&I) areas scattered beyond the business district (Ref. 2). The Phase I inspection and this report are confined to the property which once served as a storage facility for Texaco's gasoline products. Access to the site is obtained from East Front Street or from Tryon Palace Drive. This site, presently known as Duffy Park, is used for passive recreation, and consists primarily of open space with scattered benches and picnic tables (Appendix A, Photo 1).

### 1.3 Ownership and Site Use History

The site is currently owned by the City of New Bern and is operated by New Bern's Department of Parks and Recreation. Texaco, USA had operations on the land from January 4, 1952 until the late 1960s or early 1970s. During Texaco's operation, the site had 4 to 5 above-ground storage tanks mounted on cement pads that stored leaded gasoline (Appendix A, Figure 3). The PA report completed for this site identified the potential for on-site disposal of sludge removed from the tank bottoms every 3 to 5 years when the tanks were cleaned. Prior to 1980, it was common practice for petroleum companies to bury this sludge (Ref. 3). No stained soil or sludge was noted when grading of the site was done. There are no known underground storage tanks (USTs) on the site property.

Texaco, USA stopped operations at this site in the late 1960s or early 1970s and their parcel was donated to the City of New Bern for the construction of a park that would be used for passive recreation. During the development of the site, the tanks were removed and taken by barge to North Craven Street to be used for storage by a fertilizer company, Royster Company (Ref. 4). Additionally, the two associated buildings (one of which may have been a warehouse) were demolished. The remaining cement pads, which the storage tanks were mounted on, would have been cumbersome and costly to remove. Therefore, the City regraded the property, added 3 feet of fill, and planted grass on top of these cement pads. The resulting park, Duffy Park, functions as an extension of Union Point Park. The

development of the site into a park land was made possible by a grant from the Land and Water Conservation Fund (LWCF) in 1985 (Ref. 5). Three parcels presently make up Duffy Park. The Texaco parcel was donated to the City of New Bern, and two other parcels owned by Swiss Bear, Inc., a redevelopment firm, were purchased by the City on June 15, 1983. Eventually, the City would like to make the waterfront accessible to the public by developing the 75 feet of land bordering the water line.

#### 1.4 Waste Quantities and Disposal History

The Swiss Bear, Inc. site has been used as a passive recreation park since 1985. It is presently owned by the City of New Bern and operated by New Bern's Park and Recreation Department. This site, from 1952 until the late 1960s or the early 1970s included 4 to 5 above-ground gasoline storage tanks and two associated buildings owned and operated by Texaco, USA. During this time, the tanks were cleaned every 3 to 5 years and the resulting waste was potentially buried on the site, since that was common practice prior to 1980. The storage tanks have since been removed and the buildings demolished. The abandoned site has been graded, three feet of fill was added over the remaining cement pads, and grass was planted. No USTs are known to exist on the site property. There was no evidence of liquid sludge or waste at the time of grading. As much as 40,000 pounds of liquid leaded sludge were taken from the tank bottoms; however, this figure varied due to the fact that the tank bottoms were cleaned every 3 to 5 years. As a result, some years there may have been no waste and other years there may have been the maximum of 40,000 pounds (Ref. 6). Therefore, during Texaco's 20 years of operation, a total of 280,000 pounds (worst case) of sludge may have been removed from these tanks.

#### 1.5 Permit and Regulatory History

During its operations, Texaco operated under EPA identification number NCD075550517 as a large quantity generator (Ref. 6). On September 17, 1982, Mr. Keith Lawson, Division of Health Services, Solid and Hazardous Waste Management Branch, Environmental Health Section, in a letter to Mr. W.H. Hudspeth, Environmental Protection Coordinator, Texaco, USA, notified Texaco that because Texaco's terminals at New Bern, North Carolina, had been closed, this site would be removed from their list of hazardous waste generators (Ref. 7).

A permit application was due to the Division of Health Services by Texaco for the continuation of operations at the New Bern site by May 1, 1984. On November 16, 1983, Texaco declined to file Part B of the permit. Consequently, on January 29, 1984 and on February 1, 1984, the Solid and Hazardous Waste Management Branch of the Division of Health Services published a legal notice in the Raleigh, N.C. papers, announcing its intention to deny a permit and terminate interim status for the Texaco site. On March 13, 1984, Texaco was advised by the Solid and Hazardous Waste Management Branch of the Division of Health Services that the Texaco plant was denied a permit as a hazardous waste treatment, storage, or disposal facility and its interim status had been formally terminated.

Texaco was further notified that as of March 30, 1984, the operators of the plant could not treat or dispose of hazardous waste, nor store it for more than 90 days from the time of accumulation (Ref. 8).

#### 1.6 Remedial Actions to Date

There have been no CERCLA remedial actions to date.

#### 1.7 Description of Earlier Reports

A Preliminary Assessment (PA) was done for the Swiss Bear, Inc. site to identify the potential of hazardous waste contamination on the site (Ref. 3). The PA report completed by L. Crosby and D.M. Durway of North Carolina Department of Human Resources (NCDHR) - Solid and Hazardous Waste Management Branch, Environmental Health Section, addressed both past and present conditions of the site. The PA report identified the potential of buried liquid sludge on the site from the cleaning of the storage tanks. Burying liquid sludge generated from cleaning the tank bottoms of petroleum storage tanks was common practice by the petroleum industry prior to 1980 (Ref. 3).

#### 1.8 Summary Trip Report

As a result of the preliminary assessment which identified the Swiss Bear, Inc. site as a potential hazardous waste site with a medium priority for investigation, Greenhorne & O'Mara, Inc. (G&O) was contracted to perform a Phase I SSI. On October 4, 1990, Ms. Marie Fisher and Ms. Helene Kasser of G&O along with Mr. Harvey Allen of the North Carolina Department of Environment Health and Natural Resources (NCDEHNR) met with Nancy Bottorf, Director of Parks and Recreation and Danny Meadows, Director of Public Works, to discuss the present and past conditions of the site. Topics of discussion included ownership history, storage of the gasoline, evidence of on-site disposal of sludge, development of the site into a park land, and the drinking water supply in Craven County (Ref. 9).

The site visit verified that the site has been graded, grassed, and is currently used as a park for passive recreation. In addition, there was no evidence of sludge disposal such as stained soils, stressed vegetation, seepage, unusual or unexplainable depressions, or "mucky" conditions.

## 2.0 ENVIRONMENTAL SETTING

### 2.1 Topography

Craven County is in the Lower Coastal Plain of Eastern North Carolina. The County has a land area of 464,000 acres, or 725 square miles. The site is located in the southeast section of Craven County. The site is between 5 to 10 feet above mean sea level and is generally flat with a maximum slope of 1%. Drainage from the site is generally southeast toward the Neuse and Trent Rivers (Ref. 10).

### 2.2 Surface Water

Runoff from the site drains to the southeast and is collected by the Neuse and Trent Rivers. The Trent River converges with the Neuse River just south of the site. The Neuse River flows south through several counties for approximately 30 stream miles before flowing into Pamlico Sound and ultimately to the Atlantic Ocean. The Neuse River in the study area is a saltwater classified as a Class C, NSW. Class C uses include fish and wildlife propagation, secondary recreation, and agriculture. The NSW designation refers to Nutrient Sensitive Waters which require limitations on nutrient inputs (Ref. 11). There are no surface water intakes within 15 miles downstream of the site.

### 2.3 Geology, Groundwater, and Soils

#### 2.3.1 Geology

This site is located on the Atlantic Coastal Plain Physiographic Province. The River Bend Formation and the Spring Garden Member Formation underlie the site. The River Bend Formations consist of limestone, calcarenite overlain by and intercalated with indurated, sandy, molluscan-mold limestone. The Basal River Bend Formation consists chiefly of barnacle plates and molluscan molds in a calcarenite matrix with little or no clastic material. This facies grades vertically into a very sandy, slightly phosphatic, pelecypod biocalcirudite. The River Bend Formation unconformably overlies the Spring Garden Member of the Castle Hayne Formation. The unconformity surface is marked by a phosphatic crust.

The Spring Garden Member of the Castle Hayne Formation consists of tan to gray, arenaceous, molluscan-mold biocalcirudite rocks along the Neuse River from Rock Landing to New Bern. In the subsurface, the Spring Garden Member extends east and northeast from the outcrop area (Ref. 12).

#### 2.3.2 Groundwater

Groundwater is plentiful throughout Craven County. The surficial aquifer ranges from the water table down to a maximum of about 60 feet. It is thicker in the southern portion of the County. Because of the salty water in the lower part of the aquifer, the City of New Bern installed deep wells near Cove City. These wells yield large quantities of water with excellent chemical quality from the Black Creek Formation and the upper part of the Tuscaloosa Formation. However, this aquifer is not used east

of Cove City because of its depth and probable content of salty water (Ref. 10).

As stated above, the surficial aquifer ranges from the water table down to a maximum of about 60 feet. It is thicker in the southern part of the county. Earlier in the development of the county, this aquifer was the main source of small domestic water supplies. The use of shallow wells has decreased considerably because of small yield, frequent high content of dissolved iron, and the risk of contamination. The Castle Hayne Formation supplies most wells across the county. This aquifer is thin near the Lenoir and Pitt county lines, but ranges up to 700 feet thick along the Carteret County line (Ref. 10).

Aquifer 1, is also referred to as the water-table aquifer. It is composed of beds of sand, silt, and shell with lenses of clay, all of which are generally of Miocene age and younger. It has a maximum thickness of about 60 feet in the southern part of the county. Its upper surface is the water table that fluctuates with changes in groundwater storage, but generally ranges from land surface in the swamps to a depth of more than 15 feet along the sandy ridges bordering the Neuse River. The base, in most places, is a blue-clay layer. In the western part of the county, where the layer is discontinuous, Aquifer 1 is hydraulically connected with Aquifer 2 (Ref. 13).

Aquifer 2 includes most of the Castle Hayne Limestone and overlying hydraulically interconnected beds of limestone, shell and interlayered sand of Eocene and Oligocene ages that contain water under artesian conditions.

This aquifer is separated from the water table aquifer in the southern part of the county by an "aquiclude" composed of layers of silt and clay that are sufficiently impermeable to confine the water under pressure. This aquifer occurs throughout the county and thickens from a featheredge near the Lenoir and Pitt County lines to about 700 feet along the extreme southern border of Craven County. Aquifer 2 can generally be divided into two zones of limestone that are separated by a zone of sand with thin streaks of limestone. The uppermost zone of limestone is tapped by most of the wells in the county. It is composed of highly permeable gray to cream-colored shell limestone having different degrees of hardness. The sandy zone is composed of fine to medium-grained, gray to white, calcareous sand and contains thin streaks of limestone. The lower zone of limestone occurs near the bottom of the Castle Hayne Limestone of Eocene age and ranges in thickness from a featheredge in the extreme western part of the county to about 20 feet near the Carteret County line. This zone is composed of very hard, massive, gray-green sandy limestone with grains of glauconite and phosphate. It yields water locally where it has been channeled by solution, but throughout most of the county this zone acts as a confining layer to Aquifer 3. (Ref. 13)

Aquifer 3 includes the Beaufort Formation of Paleocene age and, in most places, the extreme lower part of the Castle Hayne Limestone. Composed of medium to coarse-grained, green to black, glauconitic sand with thin streaks of limestone and gray clay. This aquifer varies in thickness from about 10 feet near Dover to about 180 feet in the extreme eastern part of Craven County. Throughout most of the county it is separated from Aquifer 2 by a zone of clay and clay sand and by the hard limestone zone at the bottom of Aquifer 2. (Ref. 13).

### 2.3.3 Soils

The site lies on the Tarboro-Seabrook-Arapahoe soil association (Ref. 10). Soils from this association are nearly level and gently sloping, slopes range from 0 to 6%, are somewhat excessively to moderately well drained, sandy soils. In floodplain areas this association also is very poorly drained and has poorly drained mineral and organic soils. The soils immediately surrounding the site and within one mile of the site are also in the Tarboro-Seabrook-Arapahoe soil association. (Ref. 10)

Tarboro-Urban land (TuB) has a dark, grayish brown sand layer five inches thick with an underlying material of brownish yellow and yellow sand to a depth of 80 inches. These soils are excessively drained on gently undulating low ridges on stream terraces of the Neuse and Trent Rivers and have no water table within a depth of six feet. The slopes range from 0-6%. (Ref. 10)

The Seabrook-Urban land (Sc) soils have a dark brown sandy loam surface layer six inches thick with an underlying material of light yellowish brown sandy loam in the upper part. The middle section is very pale brown sand that has light gray mottles, and the lower part is light gray sand. These soils are nearly level and moderately well drained. It is in slightly convex areas on stream terraces of the Neuse and Trent Rivers. The seasonal high water table is 2-4 feet below the surface except in drained areas. The Seabrook loamy sand has inclusions of hydric soils or have wet spots (Ref. 10). The hydric inclusion is Leon and is normally located in intermingled areas or depressions. This is a hydric soil only because of saturation for a significant period during the growing season. (Ref. 14 and 15)

The Arapahoe (Ap) soils are fine sandy loam soils that occur on nearly level elevations and are very poorly drained. This soil has hydric soil as a major component. This is a hydric soil only because of saturation for a significant period during the growing season or are ponded for long or very long periods during the growing season. (Ref. 14 and 15).

Permeability of the Arapahoe soils ranges from 2.0 in/hr ( $1.4 \times 10^{-3}$  cm/sec) to 20 in/hr ( $1.4 \times 10^{-2}$  cm/sec). Permeability of the Seabrook soils ranges from 6.0 in/hr ( $4.2 \times 10^{-3}$  cm/sec) to 20 in/hr ( $1.4 \times 10^{-2}$  cm/sec). The Tarboro soils permeability ranges from 6.0 in/hr ( $4.2 \times 10^{-3}$  cm/sec) to greater than 20 in/hr ( $1.4 \times 10^{-2}$  cm/sec). (Ref. 10)

### 2.4 Climate and Meteorology

Total annual precipitation for Craven County is approximately 54 inches and mean lake annual evaporation is approximately 42 (Ref. 16). The net annual precipitation is therefore 12 inches. The 1-year 24-hour rainfall in precipitation is approximately 3.5 inches and the 2-year 24-hour rainfall is approximately 4.5 inches (Ref. 17).

### 2.5 Land Use

The site lies in an urban area in the southeast section of the City of New Bern in Craven County, North Carolina. Surrounding land uses include the Central Business District (CBD) to the north and west, Union Point

Park, to the south, and the Neuse River to the east. Commercial and residential land uses are located beyond the CBD (Ref. 18).

## 2.6 Population Distribution

The total population within a 4-mile radius of the site is approximately 10,500. The population was determined by multiplying the number of houses counted from the USGS Topographic map by the estimated number of persons per household in Craven County (estimated 2.84 persons/household) (Ref. 19). The population within each radius is listed below:

<u>Radius</u>	<u>Persons/Household</u>	<u>Population/Radii</u>	<u>Cumulative Population</u>
1/4 mile	2.84	0	0
1/2 mile	2.84	68	68
1 mile	2.84	102	170
2 miles	2.84	3485	3655
3 miles	2.84	4163	7818
4 miles	2.84	2681	10499

The nearest residence is located approximately 2,500 feet from the site.

According to the 1980 Census, Craven County has a land area of 702 square miles with a total population of 71,043 and a population density of 101 persons per square mile (Ref. 19). In addition, there were 23,499 households in Craven County with an average of 2.84 persons per household. The incorporated areas within a 4-mile radius of the site include New Bern, Bridgeton, and Trent Woods. New Bern has a total population of 14,557 and a population density of 2,570 (1980 Census). Bridgeton has a total population of 461, and Trent Woods has a total population of 1,177 (Ref. 19).

## 2.7 Water Supply

Within four miles of the site, residents in the City of New Bern obtain their potable water from a well field located near Cove City, approximately 13 miles west of New Bern. Chlorine and fluoride are added at the wells. A single water transmission line delivers treated water to the City where it is pumped into the distribution system (Ref. 18).

Additionally, the City of New Bern sells water on a wholesale basis to Trent Woods, James City, Granthams, and the Neuse River Sewer and Water District and serves approximately 8,454 residents within a four-mile radius of the site. The average daily water demand for New Bern in 1983 was 3.06 million gallons per day (gpd) with a maximum daily demand of 5.14 million gpd. The system's existing capacity is 4.0 million gpd. Therefore, the average daily demand is 76.5% of capacity. Peak demand is 128.5% of capacity (Ref. 18 and 20). Bridgeton has their own wells owned by the Township of Bridgeton (Ref. 20) and serves approximately 855 residents, assuming Bridgeton's wells are located within 1-2 mile radius and the population associated with this water system is assigned to this distance ring. In addition, approximately 1,758 residents within a three-mile

located within 1-2 mile radius and the population associated with this water system is assigned to this distance ring. In addition, approximately 1,758 residents within a four-mile radius are not located within incorporated limits or not served by a municipal water system. These residents are assumed to receive their potable water from domestic wells.

Radius	No. of Houses	Multiplier	Pop./Radii	Cumulative Pop.
1/4-mile	0	2.84	0	0
1/2-mile	0	2.84	0	0
1-mile	0	2.84	0	0
2-miles	301	2.84	855	855
3-miles	619	2.84	1758	2613
4-miles	234	2.84	665	3278

## 2.8 Critical Environments

There are no known critical habitats of Federal or state listed endangered or threatened species within a four-mile radius of the site, or within 15 miles downstream of the site (Ref. 22). There are, however, wide wetland areas associated with the Neuse and Trent River systems. Wetlands associated with the Neuse River in this area are classified at Estuarine, intertidal, emergent persistent (E2EM1N) and Estuarine intertidal (scrub/shrub, evergreen, seasonally flooded) (EM2SS7P). Wetlands associated with the Trent River in this area are primarily Palustrine, scrub/shrub(semi-permanent tidal, evergreen) (PSS7T) and Palustrine, scrub/shrub (semi-permanent tidal, deciduous) (PSS6T), Palustrine emergent persistent, temporary tidal (PEM1S), Palustrine emergent persistent semi-permanent tidal (PEM1T), and Palustrine, forested, broad-leaved evergreen seasonal-tidal (PFO3R). (Ref. 23)

Areas of Environmental Concern (AEC's) in the City of New Bern are sensitive environmental and cultural areas protected by the Coastal Area Management Act (CAMA). AEC's lying within New Bern's jurisdiction and in the vicinity of the site include Coastal Wetlands, Estuarine Waters, and Estuarine Shorelines and are classified as conservation areas in New Bern. (Ref. 18).

Coastal wetlands, or high tide marshlands are found adjacent to the Neuse and Trent Rivers in two separate locations. The largest wetland area adjoins the Trent River and Lawson Creek, containing approximately 214 acres. Another wetland area is located on the eastern side of the Neuse River eastward from Woodrow subdivision. The primary plant species in both areas is cordgrass (*Spartina alterniflora*). These marshes provide habitat for wildlife and waterfowl and act as a deterrent to shoreline erosion and sediment runoff. (Ref. 18)

Estuarine waters in New Bern's jurisdiction are those areas of the Neuse and Trent Rivers between the city limits and the mean high water mark. These waters are among the most productive natural environments in North Carolina. Many fish and shellfish species spend all or part of their life cycle in estuarine waters. In New Bern's planning jurisdiction, all shorelines of the Neuse and Trent Rivers fall within this classification. (Ref. 18)

### 3.0 TOXICOLOGICAL AND CHEMICAL CHARACTERISTICS

The waste compounds generated by Texaco, USA during the operations at the Swiss Bear, Inc. site are all components of the gasoline stored at the facility. Gasoline is a mixture of volatile hydrocarbons. The major components are branched-chain paraffins, cycloparaffins, and aromatics. The components of gasoline that are assumed to have occurred in the liquid sludge removed from the storage tanks, include tetraethyl lead, benzene, phenol, toluene, and xylene. The water solubilities and potential for volatilization of the materials, and their basic toxicological characteristics are summarized below.

Tetraethyl lead and toluene are insoluble and xylene is practically insoluble in water (Ref. 24). Benzene and phenol are both soluble in water (Ref. 24 and 25).

Benzene is highly flammable. It is an eye and skin irritant which is highly toxic by ingestion or inhalation and is a known carcinogen. Phenol is poisonous and caustic and is a strong eye and skin irritant. Tetraethyl lead is extremely poisonous. It is toxic by ingestion, inhalation, and skin absorption. Toluene is highly flammable, narcotic in high concentrations, and is toxic by ingestion, inhalation, or skin absorption. Xylene is a mobile, flammable liquid. It is a narcotic in high concentrations and is toxic by ingestion and inhalation. (Ref. 24 and 25)

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the information gathered during the Phase I site inspection, the site is not believed to pose a potential threat to human health and/or the environment. Through conversations with Nancy Bottorf, Director, Department of Parks and Recreation, it was learned that when the storage tanks were removed and the property was graded, there were no signs of contamination above or below the ground surface. The cement pads were said to have been free of any signs of corrosion or leakage from the tanks. In addition, there was no sign of any sludge buried on the site when grading was performed. Since the site is small and groundwater would most likely be encountered within a few feet below the ground surface, it is unlikely that onsite burial of waste occurred given the quantities generated.

The PA identified the potential for leaded tank sludge buried on the site after removal from the storage tanks. Prior to 1980, it was common practice for petroleum companies to bury sludge from storage tanks. If the liquid sludge was buried on the site, there is a potential for the infiltration of contaminated soils to the groundwater. The off-site migration of these substances in groundwater could impact private wells in close proximity of the site. However, this is not likely to occur since the nearest well to the site property is approximately one mile upgradient from the site. (Ref. 13) In addition, most of the residents living within a 3-mile radius of the site are served by a municipal system.

Drinking water for the City of New Bern, James City, Trent Woods, and Granthams is supplied by wells located in Cove City, approximately 15 miles west of the site.

In conclusion, Greenhorne & O'Mara, Inc. is recommending that the site be designated as "no further remedial action planned (NFRAP)" due to the fact that there is no evidence that sludge was buried onsite and the site is not a threat to human health or the environment.

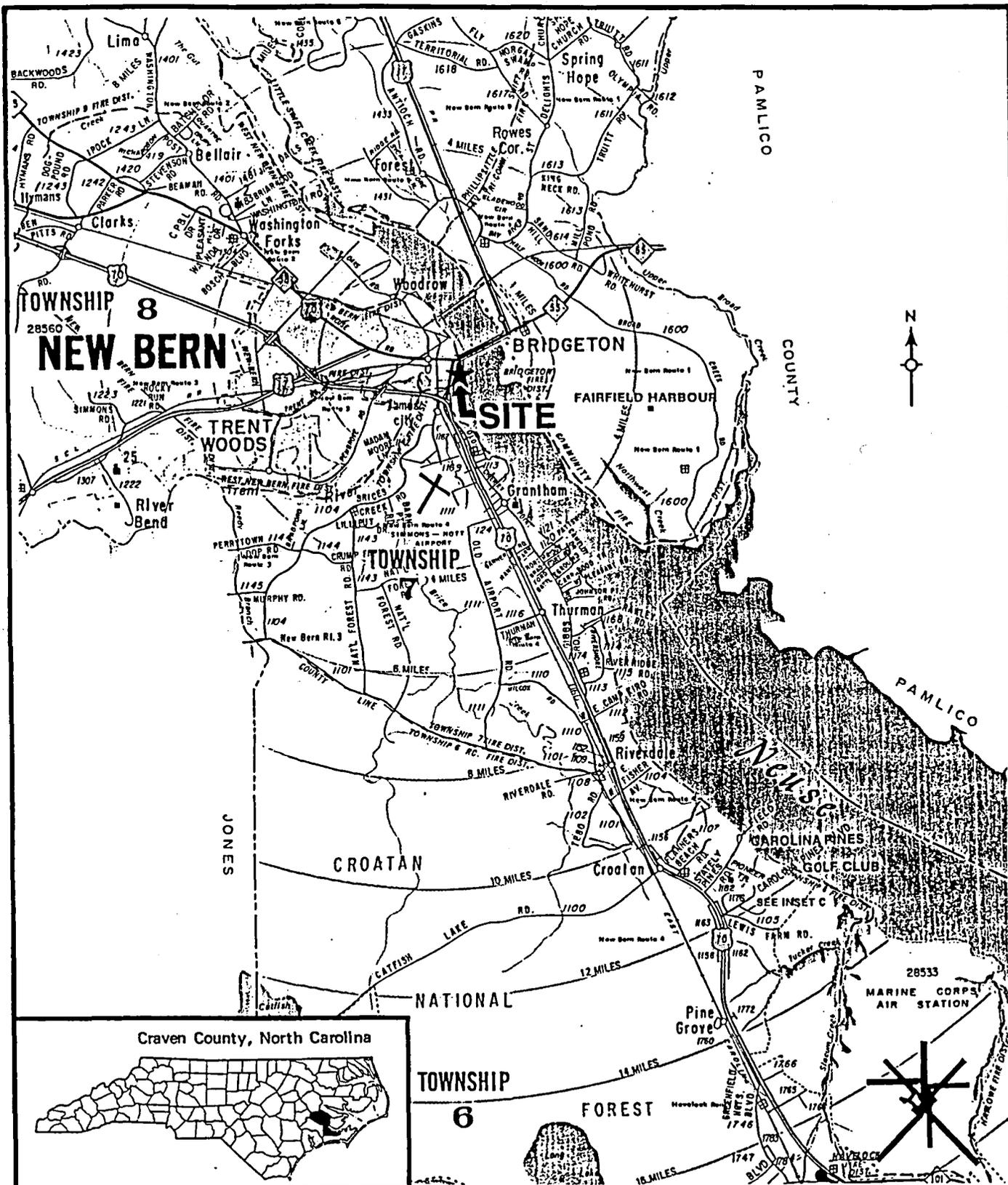
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EPA ID NUMBER - NCD075550517

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**APPENDIX A**  
**MAPS AND PHOTOGRAPHS**



**SWISS BEAR, INC.**

0 1 2 3  
Approximate scale in miles

FIGURE 1



ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS • PHOTOGRAMMETRISTS  
**GREENHORNE & O'MARA, INC.**  
 9001 EDMONSTON ROAD, GREENBELT, MARYLAND 20770  
 (301) 982-2800

**SITE LOCATION**

ANNAPOLIS MD • ATLANTA GA • AURORA CO • BALTIMORE MD • CLYDE PEPPER VA • DEXTER MI  
 ESSEX PA • FARMAX VA • MANASSAS VA • RALEIGH NC • RICHMOND MI • TAMPA FL



**LEGEND**

On municipal water system served by wells located in Cove City, NC.  
 On municipal water system served by wells owned and operated by the Town of Bridgeton.  
 The remaining area is assumed to be served by private wells.

No.	REVISION	DATE	BY



ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS • PHOTOGRAMMETRISTS

**GREENHORNE & O'MARA, INC.**

9001 EDMONSTON ROAD, GREENBELT, MARYLAND 20770  
(301) 982-2800

ANNAPOLIS, MD • ATLANTA, GA • AURORA, CO • BALTIMORE, MD • CULPEPER, VA • DULUTH, GA • EXPORT, PA • FAIRFAX, VA • FREDERICKSBURG, VA  
LEESBURG, VA • MANASSAS, VA • ORLANDO, FL • RALEIGH, NC • ROCKVILLE, MD • TAMPA, FL • WAIDDEE, MD • WEST PALM BEACH, FL

**SWISS BEAR, INC.**

**TOPOGRAPHIC MAP**

DESIGN	SCALE IN FEET 1" = 2000'	
DRAWN	FIGURE 2	
CHECKED		
DATE	JOB No.	FILE No.

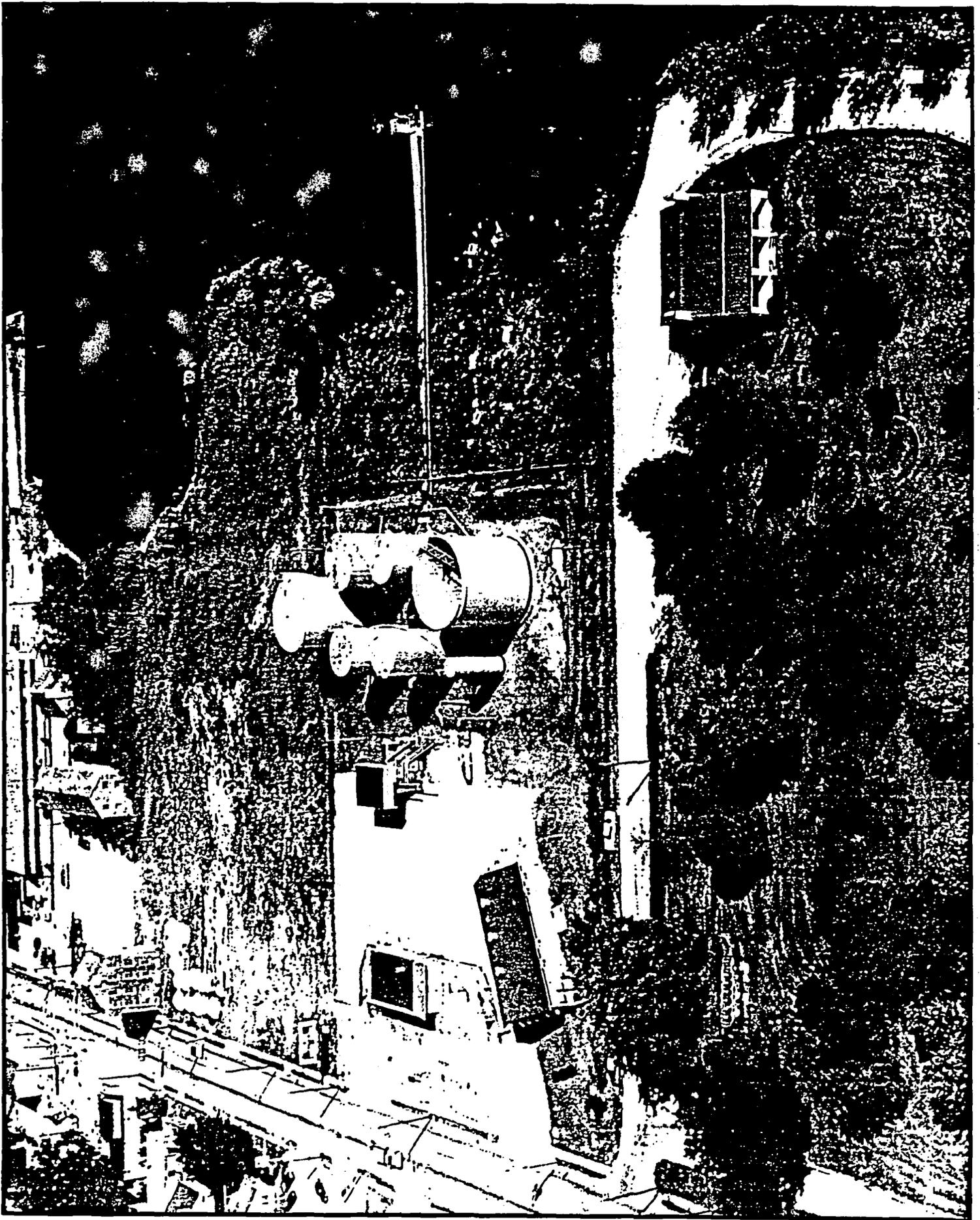


FIGURE 3  
FORMER TEXACO STORAGE FACILITY



PHOTO 1 – Panoramic view of Duffy Park (Swiss Bear, Inc.) looking northeast.

**APPENDIX B**  
**SITE INSPECTION FORM**



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION  
01 STATE NC 02 SITE NUMBER D075550517

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Swiss Bear, Inc.		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 200-208 E. Front Street			
03 CITY New Bern		04 STATE NC	05 ZIP CODE 28506	06 COUNTY Craven	07 COUNTY CODE 08 CONG DIST
09 COORDINATES LATITUDE 35 06' 18" LONGITUDE 77 02' 08"		10 TYPE OF OWNERSHIP (Check one) <input type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input checked="" type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN			

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 10 4 90 MONTH DAY YEAR		02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1952 1970s BEGINNING YEAR ENDING YEAR		
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input type="checkbox"/> E. STATE <input checked="" type="checkbox"/> F. STATE CONTRACTOR <u>Greenhorne &amp; O'Mara</u> <input type="checkbox"/> G. OTHER					

05 CHIEF INSPECTOR Helene Kasser		06 TITLE Environmental Scientist	07 ORGANIZATION G&O	08 TELEPHONE NO. (301) 982-2800
09 OTHER INSPECTORS Marie Fisher		10 TITLE Environmental Scientist	11 ORGANIZATION G&O	12 TELEPHONE NO. (301) 982-2800
Harvey Allen		Environmental Engineer	NCDEHNR - Superfund Brch.	(919) 733-2801
				( )
				( )
				( )

13 SITE REPRESENTATIVES INTERVIEWED Nancy Bottorf		14 TITLE Director	15 ADDRESS New Bern, NC Dept. of Parks & Recreation	16 TELEPHONE NO. (919) 636-4060
Danny Meadows		Director	P.O. Box 1129, New Bern, NC Dept. of Public Works	(919) 636-4025
Bill Rayband		City Engineer	New Bern, NC	(919) 636-4004
				( )
				( )
				( )

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 9:00 am	19 WEATHER CONDITIONS Sunny, warm
---	----------------------------------	--------------------------------------

IV. INFORMATION AVAILABLE FROM

01 CONTACT Harvey Allen		02 OF (Agency/Organization) NCDEHNR - Superfund Branch		03 TELEPHONE NO. (919) 733-2801
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Rachel Spangenberg		05 AGENCY	06 ORGANIZATION Greenhorne & O'Mara, Inc.	07 TELEPHONE NO. (301) 982-2800
				08 DATE 4 / 23 91 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 2 - WASTE INFORMATION

I. IDENTIFICATION  
01 STATE **NC** 02 SITE NUMBER  
**D075550517**

WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 WASTE STATES (Check all that apply) <input type="checkbox"/> SOLID <input type="checkbox"/> POWDER/FINES <input checked="" type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER _____ <small>(Specify)</small>	02 WASTE QUANTITY AT SITE <small>(Use units of waste quantities must be in pounds)</small> TONS <b>140</b> CUBIC YARDS _____ NO. OF DRUMS _____	03 WASTE CHARACTERISTICS (Check all that apply) <input checked="" type="checkbox"/> A TOXIC <input type="checkbox"/> B CORROSIVE <input type="checkbox"/> C RADIOACTIVE <input type="checkbox"/> D PERSISTENT <input checked="" type="checkbox"/> E SOLUBLE <input type="checkbox"/> F INFECTIOUS <input checked="" type="checkbox"/> G FLAMMABLE <input type="checkbox"/> H IGNITABLE <input type="checkbox"/> I HIGHLY VOLATILE <input type="checkbox"/> J EXPLOSIVE <input type="checkbox"/> K REACTIVE <input type="checkbox"/> L INCOMPATIBLE <input type="checkbox"/> M NOT APPLICABLE
---	---	---

II. WASTE TYPE

01 CATEGORY	02 SUBSTANCE NAME	03 GROSS AMOUNT	04 UNIT OF MEASURE	05 COMMENTS
01U	SLUDGE	280,000 lbs		worst case over a period of 20 years
01W	OILY WASTE			
01L	SOLVENTS			
01D	PESTICIDES			
01C	OTHER ORGANIC CHEMICALS			
01O	INORGANIC CHEMICALS			
01A	ACIDS			
01B	BASES			
01M	HEAVY METALS			

HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers) \*\*

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
01C	benzene	71-43-2	storage tanks	unknown	
01C	tetraethyl lead	78-00-2	storage tanks	unknown	
01C	phenol	108-95-2	storage tanks	unknown	
01C	toluene	108-88-3	storage tanks	unknown	
01C	xylene	1330-20-7	storage tanks	unknown	

FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

SOURCES OF INFORMATION (Cite specific references e.g. state files, sample analysis reports)

1. Site Field notes
2. NCDEHNR - State files
3. Sax, Irving, Dangerous Properties of Industrial Materials

\*\* components of gasoline



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER  
NC | D075550517

II. HAZARDOUS CONDITIONS AND INCIDENTS

01  A GROUNDWATER CONTAMINATION  
03 POPULATION POTENTIALLY AFFECTED 2613      02  OBSERVED (DATE: \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

Within a 3-mile radius there are a total of 2,613 residents that depend on their potable water from wells located near the site.

01  B SURFACE WATER CONTAMINATION  
03 POPULATION POTENTIALLY AFFECTED 0      02  OBSERVED (DATE: \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

There are no surface water intakes within 15 miles downstream of the site.

01  C CONTAMINATION OF AIR  
03 POPULATION POTENTIALLY AFFECTED 10,499  
(4-mile radius)      02  OBSERVED (DATE: \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

There are approximately 7,818 people located within a 3-mile radius of the site.

01  D FIRE/EXPLOSIVE CONDITIONS  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_      02  OBSERVED (DATE: \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

NA

01  E DIRECT CONTACT  
03 POPULATION POTENTIALLY AFFECTED 170      02  OBSERVED (DATE: \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

There are approximately 170 people located within 1 mile of the site.

01  F CONTAMINATION OF SOIL  
03 AREA POTENTIALLY AFFECTED 1.0 (approx)  
ACROSS      02  OBSERVED (DATE: \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

01  G DRINKING WATER CONTAMINATION  
03 POPULATION POTENTIALLY AFFECTED \_\_\_\_\_      02  OBSERVED (DATE: \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

See above

01  H WORKER EXPOSURE/INJURY  
03 WORKERS POTENTIALLY AFFECTED \_\_\_\_\_      02  OBSERVED (DATE: \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

NA

01  I POPULATION EXPOSURE/INJURY  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_      02  OBSERVED (DATE: \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

NA



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NC	D075550517

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01  DAMAGE TO FLORA  
NARRATIVE DESCRIPTION

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

NA

01  DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION *(include names of species)*

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

NA

01  CONTAMINATION OF FOOD CHAIN  
NARRATIVE DESCRIPTION

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

NA

01  UNSTABLE CONTAINMENT OF WASTES  
*(e.g., Spill, Standing Liquids, Leaking Drums)*

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

03 POPULATION POTENTIALLY AFFECTED \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

It was reported that Texaco, USA may have disposed of tank sludges onsite; however, during the development of the park, there was no evidence of sludge burial onsite.

01  DAMAGE TO OFFSITE PROPERTY  
NARRATIVE DESCRIPTION

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

NA

01  CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
NARRATIVE DESCRIPTION

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

NA

01  ILLEGAL/UNAUTHORIZED CUMMING  
NARRATIVE DESCRIPTION

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

NA

DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

NA

III. TOTAL POPULATION POTENTIALLY AFFECTED: 7,818 (3-mile radius) , 10,499 (4-mile radius)

IV. COMMENTS

SOURCES OF INFORMATION: *(Cite specific references e.g. Site files, Sample analysis reports)*

- Field Site notes
- NCDEHNR - State Files



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION  
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION  
01 STATE | 02 SITE NUMBER  
NC | D075550517

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED <i>(Check all that apply)</i>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> NPDES				
<input type="checkbox"/> UIC				
<input type="checkbox"/> AIR				
<input type="checkbox"/> RCRA				
<input checked="" type="checkbox"/> RCRA INTERIM STATUS	NCD075550517	11/4/80	5/1/84	
<input type="checkbox"/> SPCC PLAN				
<input type="checkbox"/> STATE <i>(Specify)</i>				
<input type="checkbox"/> LOCAL <i>(Specify)</i>				
<input type="checkbox"/> OTHER <i>(Specify)</i>				
<input type="checkbox"/> NONE				

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL <i>(Check all that apply)</i>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <i>(Check all that apply)</i>	05 OTHER
<input type="checkbox"/> A SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	06 AREA OF SITE
<input checked="" type="checkbox"/> D TANK, ABOVE GROUND	unknown		<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H OPEN DUMP			<input type="checkbox"/> H OTHER <i>(Specify)</i>	
<input checked="" type="checkbox"/> I OTHER buried waste <i>(Specify)</i>	280,000	pounds		

06 COMMENTS

Approximately 280,000 pounds of liquid sludge were removed from the storage tanks; however, there is no evidence or documentation that the sludge was buried on the site.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES *(Check one)*  
 A. ADEQUATE, SECURE     B. MODERATE     C. INADEQUATE, POOR     D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC

The above-ground storage tanks were in good condition when they were removed from the site. In addition, the cement pads the tanks were mounted on were free of any signs of leakages from the tanks. In addition, no cracks were noticed on the cement pads.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE:  YES  NO  
 02 COMMENTS

VI. SOURCES OF INFORMATION *(Cite specific references e.g. State files, sample analysis reports)*

1. Site Field notes
2. NCDEHNR - State files



**POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA**

I. IDENTIFICATION	
01 STATE NC	02 SITE NUMBER D075550517

**DRINKING WATER SUPPLY**

TYPE OF DRINKING SUPPLY <small>(Check as appropriate)</small>	02 STATUS			03 DISTANCE TO SITE		
	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	A _____ (mi)
COMMUNITY	A <input type="checkbox"/>	B. <input checked="" type="checkbox"/>	A <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>	B. _____ (mi)
NON-COMMUNITY	C <input type="checkbox"/>	D <input checked="" type="checkbox"/>	D <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	

**GROUNDWATER**

04 GROUNDWATER USE IN VICINITY (Check one)

A ONLY SOURCE FOR DRINKING  
 B DRINKING (Other sources available)  
 C COMMERCIAL, INDUSTRIAL, IRRIGATION (Other water sources available)  
 D NOT USED, UNUSEABLE

05 POPULATION SERVED BY GROUND WATER 2,613 (3-mile radius)      06 DISTANCE TO NEAREST DRINKING WATER WELL one (mi)

07 DEPTH TO GROUNDWATER <u>15</u> (ft)	08 DIRECTION OF GROUNDWATER FLOW <u>south/southeast</u>	09 DEPTH TO AQUIFER OF CONCERN <u>15</u> (ft)	10 POTENTIAL YIELD OF AQUIFER <u>unknown</u> (gpd)	11 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
---	--	--	---	---

12 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

NA

13 RECHARGE AREA		14 DISCHARGE AREA	
<input type="checkbox"/> YES	COMMENTS <u>unknown</u>	<input type="checkbox"/> YES	COMMENTS <u>unknown</u>
<input type="checkbox"/> NO		<input type="checkbox"/> NO	

**SURFACE WATER**

15 SURFACE WATER USE (Check one)

A RESERVOIR RECREATION DRINKING WATER SOURCE  
 B IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES  
 C COMMERCIAL, INDUSTRIAL  
 D NOT CURRENTLY USED

16 AFFECTED, POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
<u>Neuse River</u>	<input type="checkbox"/>	<u>0 feet</u> (mi)
<u>Pamlico Sound</u>	<input type="checkbox"/>	<u>25</u> (mi)
<u>Atlantic Ocean</u>	<input type="checkbox"/>	_____ (mi)

**DEMOGRAPHIC AND PROPERTY INFORMATION**

17 TOTAL POPULATION WITHIN			18 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE A <u>170</u> NO OF PERSONS	TWO (2) MILES OF SITE B <u>3,655</u> NO OF PERSONS	THREE (3) MILES OF SITE C <u>7,818</u> NO OF PERSONS	<u>2500 feet</u> (mi)

19 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE <u>approx. 111</u>	20 DISTANCE TO NEAREST OFF-SITE BUILDING <u>50 feet</u> (mi)
---	---

21 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site and its degree of density populated urban areas)

The site is situated in the historic business district of Craven County in the City of New Bern. The Neuse River is just east of the site. Within the vicinity of the site, land is used for commercial, residential, and recreational purposes.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE NC 02 SITE NUMBER D075550517

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

A  $10^{-6} - 10^{-8}$  cm/sec  B  $10^{-4} - 10^{-6}$  cm/sec  C  $10^{-2} - 10^{-3}$  cm/sec  D. GREATER THAN  $10^{-3}$  cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

A IMPERMEABLE (Less than  $10^{-10}$  cm/sec)  B RELATIVELY IMPERMEABLE ( $10^{-4} - 10^{-9}$  cm/sec)  C RELATIVELY PERMEABLE ( $10^{-2} - 10^{-4}$  cm/sec)  D. VERY PERMEABLE (Greater than  $10^{-2}$  cm/sec)

03 DEPTH TO BEDROCK

unknown (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

NA (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

12 (in)

07 ONE YEAR 24 HOUR RAINFALL

3.5 (in)

08 SLOPE  
SITE SLOPE

1 %

DIRECTION OF SITE SLOPE  
south/southeast

TERRAIN AVERAGE SLOPE  
1 %

09 FLOOD POTENTIAL

SITE IS IN \_\_\_\_\_ YEAR FLOODPLAIN

10

SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A approx. 1 (mi)

B. \_\_\_\_\_ (mi)

12 DISTANCE TO CRITICAL HABITAT (for endangered species)

NA (mi)

NA

ENDANGERED SPECIES: \_\_\_\_\_

13 LAND USE IN VICINITY

DISTANCE TO

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,  
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS  
PRIME AG LAND AG LAND

A 50 feet (mi)

B 2500 ft (mi)

C. unknown (mi) D. unknown (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The topography of the site and the surrounding areas is generally flat. The elevation of the site is approximately 5 to 10 feet above mean sea level.

VII. SOURCES OF INFORMATION (Cite specific references e.g., state files, sample analysis, reports)

1. Field site notes
2. Climatic Atlas of the U.S.
3. USGS Topographic maps
4. Soil Survey for Craven County
5. Rainfall Frequency Atlas for U.S.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION  
01 STATE NC 02 SITE NUMBER D075550517

II. SAMPLES TAKEN

01 SAMPLE TYPE	02 NUMBER OF SAMPLES TAKEN	03 SAMPLES SENT TO	04 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	NA		
SURFACE WATER	NA		
WASTE	NA		
AIR	NA		
RUNOFF	NA		
SPILL	NA		
SOIL	NA		
VEGETATION	NA		
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
NA	

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input checked="" type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>Greenhorne &amp; O'Mara, Inc.</u> <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>Greenhorne &amp; O'Mara and NCDEHNR - Superfund Branch</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references e.g. 3191005 sample analysis reports)

1. Site Field notes
2. NCDEHNR - State files



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 7 - OWNER INFORMATION

I. IDENTIFICATION  
01 STATE NC 02 SITE NUMBER D075550517

I. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME Dept. of Parks & Recreation		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY New Bern		06 STATE NC	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (If applicable, list most recent first)			
01 NAME Texaco, USA		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) P.O. Box 4582		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY Atlanta		06 STATE GA	07 ZIP CODE 30302	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION (Cite specific references, e.g., 15150 files, sample analysis reports)							
1. NECDEHNR - State files							
2. Site Field Notes							



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NC	D075550517

II. CURRENT OPERATOR <small>(Provide # different from owner)</small>				OPERATOR'S PARENT COMPANY <small>(if applicable)</small>			
01 NAME NA		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			04 SIC CODE	12 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
17 YEARS OF OPERATION		09 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) <small>(List most recent first, provide only if different from owner)</small>				PREVIOUS OPERATORS' PARENT COMPANIES <small>(if applicable)</small>			
01 NAME Texaco, USA		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small> P.O. Box 4582			04 SIC CODE	12 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			13 SIC CODE
05 CITY Atlanta		06 STATE GA	07 ZIP CODE 30302	14 CITY		15 STATE	16 ZIP CODE
17 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			04 SIC CODE	12 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
17 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			04 SIC CODE	12 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
17 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION <small>(Cite specific references, e.g., state files, sample analysis reports)</small>							
1. NCDEHNR - State files							



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION  
01 STATE | 02 SITE NUMBER  
NC | D075550517

III. ON-SITE GENERATOR

01 NAME NA	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD # etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	

IV. OFF-SITE GENERATOR(S)

01 NAME NA	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD # etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD # etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD # etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD # etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME NA	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD # etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD # etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD # etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD # etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Check specific references, e.g., State files, sample analysis reports)

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POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE NC	02 SITE NUMBER D075550517

PAST RESPONSE ACTIVITIES		
01 <input type="checkbox"/> A WATER SUPPLY CLOSED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> B TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> C PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> D SPILLED MATERIAL REMOVED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> E CONTAMINATED SOIL REMOVED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> F WASTE REPACKAGED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> G WASTE DISPOSED ELSEWHERE 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> H ON SITE BURIAL 04 DESCRIPTION There is a potential for on-site burial of liquid sludge; however, there is no evidence that that is the case.	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> I IN SITU CHEMICAL TREATMENT 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> J IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> K IN SITU PHYSICAL TREATMENT 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> L ENCAPSULATION 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> M EMERGENCY WASTE TREATMENT 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> N CUTOFF WALLS 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> O EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> P CUTOFF TRENCHES/SUMP 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Q SUBSURFACE CUTOFF WALL 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NC	D075550517

II PAST RESPONSE ACTIVITIES (Continued)

01  R. BARRIER WALLS CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

NA

01  S. CAPPING/COVERING  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

NA

01  T. BULK TANKAGE REPAIRED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

NA

01  U. GROUT CURTAIN CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

NA

01  V. BOTTOM SEALED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

NA

01  W. GAS CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

NA

01  X. FIRE CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

NA

01  Y. LEACHATE TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

NA

01  Z. AREA EVACUATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

NA

01  1. ACCESS TO SITE RESTRICTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

NA

01  2. POPULATION RELOCATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

NA

01  3. OTHER REMEDIAL ACTIVITIES  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

NA

III. SOURCES OF INFORMATION (Cite specific references e.g., state files, sample analysis reports)



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NC	D075550517

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION  YES  NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION:

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis reports)*