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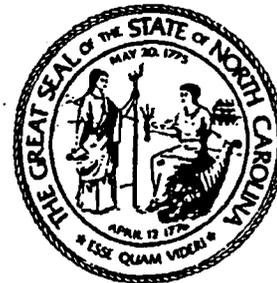
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STATE OF NORTH CAROLINA



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

**Union Carbide Corporation
NCD 003216462**

**Phase I
Screening Site Investigation**

July 1990

Volume I

By:

Greenhorne & O'Mara, Inc.



PHASE I
SCREENING SITE INVESTIGATION
FOR THE
UNION CARBIDE CORP.

NCD 003216462

CERCLA

Submitted to:

State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Solid Waste Management
Raleigh, North Carolina 27611-7687

Prepared by:

Greenhorne & O'Mara, Inc.

July, 1990

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EXECUTIVE SUMMARY

The Union Carbide Corporation, Inc. Plant 1, located in the City of Asheboro, North Carolina, produces dry cell batteries. The property located at 800 Albemarle Road is now owned and operated by the Eveready Battery Company, Inc.

The facility is a small quantity hazardous waste generator. Hazardous substances and wastes are stored under roof inside containment and inside a chainlink fence. Access is controlled.

There are ongoing discharges to the sanitary sewer authorized by a pretreatment permit from the City of Asheboro. Any contaminated storm water from the areas around the west end of the plant are collected and discharged to the sewer as well.

There are ongoing air emissions of hazardous materials. An Air Permit has been issued to control these sources. The wastes emitted include zinc, lead, cadmium, and mercury. The total quantity released is quite small (.0014 tons per year).

Prior releases include leakage of an underground storage tank. The investigation showed the presence of an F002 waste, 1,1,1-trichloroethane. A study of the release did not detect high levels of this material or its degradation products in the groundwater. Levels of gasoline components were also detected in low concentrations. A monitoring well is maintained at the site.

Because the quantities of hazardous wastes are small and containment exists, the potential for a release to cause significant harm to the environment is low. Prior releases that may have gone undetected also had low significance because the pathway to the community is restricted. Much of the area uses surface water as a potable water supply and there are no intakes within 15 river miles of the plant. Homes near the plant use

surface water with the nearest public groundwater supply well a mile away. The nearest private well is 3500 feet away. The topography of the area is such that movement of groundwater in the surficial water bearing unit would be intercepted by gullies. A Phase II site investigation is not recommended.

1.0 BACKGROUND

1.1 Location

The facility known as Union Carbide Corporation, Inc., Plant 1 is located in Randolph County in the City of Asheboro, North Carolina. It is now owned and operated by Eveready Battery Company, Inc. (Ref. 1, 35). The street address is 800 Albemarle Road. The site is located south and west of the center of the city. Figure 1, the Site Location Map, in Appendix A (Ref. 43) shows the location of the plant on a city map. The site latitude is 35° 41' 25" N and the longitude is 79° 49' 34" W.

1.2 Site Layout

The main entrance to the plant is along Albemarle Road. A delivery entrance is along the back from Brady Avenue. The site comprises 24.45 acres (Ref. 2) and is enclosed by a chain link fence. Diked storage areas are located behind the plant for chemicals, hazardous waste, and fuels. Until 1987, these areas drained to the storm drains. In 1987, these discharges were closed, and the collected water is now tested, pretreated if necessary, and sent to the sanitary sewer. Two storm drains are located in the north corner of the plant. An above ground propane gas tank is located behind the plant. Steam cleaning has been conducted on a pad to the west of the building. While the site is located in an industrial and commercial zone, homes, schools, and churches are located within several blocks of the site (Ref. 1).

1.3 Ownership History

On October 10, 1950 Union Carbide purchased the plant site from National Carbon Company. Union Carbide made 13 separate purchases of land between 1952 and 1980. On September 8, 1986 Union Carbide sold the property to the current owner and operator, Eveready Battery Company, Inc. (Ref. 35).

1.4 Site Use History

The site was opened in 1945 by National Carbon Company, to produce dry cells batteries. Dry cell batteries have continued to be manufactured at the site up to the present. In 1986, the plant was sold to the present owner, Eveready Battery (Refs. 1, 35).

1.5 Process and waste disposal history

The search of available data indicates that no state information exists for this facility's waste practices prior to 1980. The facility manufactures dry cell batteries of the carbon/zinc type. A mercury paste is manufactured from mercury chloride to be incorporated into the batteries as a gas scavenger. The manufacture of zinc electrodes includes alloying cadmium and lead into the zinc (Ref. 20). The major hazardous waste of concern are the sweepings from the mercury chloride paste area, waste solvents used to clean the equipment, and waste from the zinc manufacturing used to make the terminals inside the battery (Ref.1). Solid waste from this site is hauled to the Randolph County Landfill (Ref. 3) and disposed of in a special 5 acre area owned and operated by Eveready (Ref. 51). Prior to 1970, wastes were hauled to the City of Asheboro Landfill (Ref. 51). Because there are no solid waste disposal sites on the property (Ref. 3), it is probable that prior to 1982 hazardous waste was also disposed of at the landfill.

In 1982, all drains inside the plant were closed to the sanitary sewer (Ref. 1). This coincides with the promulgation of federal hazardous waste requirements. In 1987, storm drains from the areas west of the plant were closed and directed to the diked storage area (Ref. 1) around the fuel storage tank. Discharges from this area are released to the sanitary sewer after analysis and approval (Ref. 1, 4). Prior to 1987, contained runoff was discharged to the storm drains (Ref. 15, 16). The only current water borne waste streams discharged to the sanitary sewer are case washing and sanitary wastes (Ref. 51). This practice of discharging to the sewer has been in place since 1972. A recycling system was installed in 1979 that eliminated all but wash waters being discharged to the sanitary sewer. Records (Ref. 5) from 1981 indicate that wastewaters undergo oil separation, sand filtration, and carbon treatment (Ref. 51). Sludges from the system are tested and have always been non-hazardous and sent to the city or county landfill (Ref. 51).

Hazardous wastes removed from the site include: D002, corrosives; D007, chromium; D008, lead; D009, Mercury; and D010, Cadmium (Ref. 3, 5, 6). Other wastes include contaminated oils, spent solvents, and trash (Ref. 3, 5, 6). Waste oil has always been recycled. It is currently removed by Safety Clean (Ref. 51). The only chlorinated solvent in current use is 1,1,1-trichloroethane. This is used to clean wax from pumps. The material is recycled along with other solvents through Safety Clean (Ref. 1). Prior use of chlorinated solvents has been replaced by a petroleum distillate called Desolv-it (mineral spirits) (Ref. 1, 45).

Other potential sources of waste have been reported. A pad along the west of the plant has been used to steam clean equipment infrequently. No indication of pollution potential has been given for this practice. All polychlorinated biphenyl (PCB) capacitors were removed before 1985. No leaks were reported. The plant has been surveyed for asbestos and all asbestos has been removed (Ref. 1).

1.6 Permit and Regulatory History

In 1980, the facility applied for (Ref. 10) and received an EPA ID number NCD003216462 for hazardous waste activities including treatment. Later, as EPA clarified its position with respect to the relationship between RCRA and NPDES, the treatment application was withdrawn (Ref. 9). In 1982, they applied for status as a small quantity generator (Ref. 9). On September 19, 1983, they received a notice of violation from the Division of Health Services for exceeding small quantity generator amounts (Ref. 8). No further violations have been noted.

On January 8, 1986, Pollution Incident Report #3155 (Ref. 11) was issued regarding the detection of a leak and associated release from a underground gasoline storage tank that had been abandoned in place for eight years. The company tested and removed the tank recently and determined that it may have been leaking. The Division of Environmental Management was voluntarily notified (Ref. 12). In the report of the leaking tank incident (Ref. 12), the company indicated that the soils under the tank showed the presence of dichloroethane and 1,1,1-trichloroethane. The tank was used for a short time to store trichloroethane (Ref. 51). In August of 1986 a report (Ref. 22) was submitted to the Division of Environmental Management that showed trace levels of chlorinated solvents in the soils but only benzene, toluene, xylene, lead, and ethylene bromide (indicators of gasoline pollution) were detected in the groundwater. On March 5, 1986, a monitoring well permit was issued by the Division of Environmental Management (Ref. 13) for the leaking underground storage tank site. Follow up sampling and testing was done in October of 1986 (Ref. 14) for benzene only, which was detected.

On March 16, 1987 a notice of violation was issued by the Division of Environmental Management (Ref. 15) for activities related to a fuel spill. Spill residues were captured in the diked storage area around the fuel oil tank. The water layer was later allowed to discharge to the storm drains without authorization or permit. To avoid repeat of this type of incident,

the company obtained authorization to discharge future contaminated storm drainage to the sanitary sewer after treatment (Refs. 16,17).

On February 3, 1987, Eveready Battery Company notified the Division of Environmental Management that start up of the pretreatment equipment was eminent (Ref. 18, 19).

On July 1, 1987, the City of Asheboro issued Pretreatment Permit 4036 authorizing the discharge of treated process and storm water to the sanitary sewer (Ref. 4).

On July 24, 1987, an inspection was conducted for air compliance (Ref.23). No violations were recorded (Ref. 23). On July 31, 1987, Eveready Battery Company applied for renewal of their Air Permit (Ref. 20). On October 23, 1987 the Division of Environmental Management issued Air Permit No. 5035R3 (Ref. 21) for seven controlled and three uncontrolled air emission sources. This permit superceded previous permits. The permit was issued for a five year period. The permit requires removal of particulates containing metals from the mercury paste area and the zinc operations. The table below summarizes the authorized releases (Ref. 20).

Material	Current permitted release rate in tons per year
Lead	.001
Cadmium	.00034
Mercury	.0000438
Zinc	.00002

1.7 Remedial Actions

While no remedial actions were undertaken, one study was performed to determine if such an action was necessary (Ref. 22). The study was conducted by Soil and Material Engineers (SME) in 1986 as a result of a release detected when the abandoned underground storage tank described in

Section 1.6 was removed. An August 1986 study by SME concluded that, although soil and ground water were contaminated, the levels were too low to warrant a remedial action. A monitoring well was installed. Since the state required no further action, the recommendation of the report must have been accepted. Annual reports of groundwater monitoring data are being sent to the state (Ref. 51).

1.8 Earlier Reports

In June of 1982, a RCRA compliance inspection was made by the Division of Environmental Management (Ref. 24). The report noted no violations and stated that the facility was classified as a small quantity generator only.

In December of 1984, a Potential Hazardous Site Preliminary Assessment was made by the Division of Environmental Management (Ref. 3). The file notes made during the inspection indicated that waste disposal practices have not changed much in the last six years. In addition, plant personnel indicated that no prior on-site disposal had taken place and that all solid waste removed from the plant has been disposed of at a special Union Carbide area in the Randolph County Landfill.

1.9 Summary of Trip Report

On May 25, 1990 a Greenhorne and O'Mara staff member met with Dario Sena (Environmental Coordinator), Guy McClanahan (Plant Manager), and Bob Behr (Quality Control Manager) of the Eveready Battery Company, Inc. for the purpose of conducting a Phase 1 Screening Site Visit. Field notes (Ref. 1) and photographs (See Appendix A) were taken during the visit.

In addition to observations noted in Sections 1.2, 1.4, 1.5, and 1.7 the following was recorded:

- o The raw chemical storage area is covered and contained. The building has limited access. The loading dock is covered but

storm drains are not contained. Most raw materials received at the dock are dry solids.

- o The hazardous waste storage area is also covered and contained. Hazardous wastes are removed by GSX (Laidlaw).

2.0 ENVIRONMENTAL SETTING

2.1 Topography

This plant is located just inside the corporate limits of the City of Asheboro, North Carolina, near the Uwharrie Mountains in the Piedmont physiographic province (Ref. 25). The land slopes in the vicinity of the plant are between 4% and 8% (Figure 3). The site is paved and provided with storm drains that direct all drainage to Cedar Fork Creek. The approximate elevation of the site is 845 feet above mean sea level (Figure 3).

2.2 Surface water

No ponding was observed on the site (Ref. 1). The storm drains direct the drainage to Cedar Fork Creek, a tributary of Back Creek in the watershed of the Uwharrie River. Waters downstream of the plant are classified WS-III. Class WS-III waters include the Class C protection for secondary recreation such as fishing (Ref. 30, 31). There are no known surface water intakes within 15 miles downstream as measured from the beginning of the closest perennial waters of the site (Ref. 26, 27, 28, 29, 32).

2.3 Geology, Groundwater, and Soils

2.3.1 Geology

Randolph County lies in the Piedmont physiographic province (Ref. 25). In the Piedmont Province, a layer of loose saprolite material underlies the

land surface and ranges in thickness from one to two feet near bedrock outcrops to more than 100 feet in other areas. The saprolite consists of unconsolidated granular material, including coarse sands, gravels, and clays, and is derived by the weathering of the underlying bedrock. The Piedmont bedrock in Randolph County is predominately metamorphic rocks of the Carolina Slate Belt, one of the least productive hydrogeologic units in North Carolina. In the Carolina Slate Belt, the rocks are not deeply weathered which results in shallow soil and saprolite.

The geology under Asheboro consists of two different units, felsic metavolcanic rock, which is the predominant unit, and metamudstone and meta-argillite to the east, southeast, and northeast (Ref. 9). The felsic metavolcanic rock are metamorphosed dactic and rhyolitic flows and tuffs, light gray to greenish gray, and interbedded with mafic and intermediate metavolcanic rock, meta-argillite, and metamudstone. The metamudstone and meta-argillite typically have an axial planar cleavage and a bedding plane.

2.3.2 Groundwater

While most public water is taken from surface waters, many private wells and some small community wells are located within four miles of the plant (Refs. 27, 25, Figure 4). These wells tap waters within the metavolcanic unit and the argillite-graywacke unit (Ref. 25).

2.3.3 Soils

The soil in the vicinity of the plant are in the Georgeville Series (Ref. 33). They are classified as moderately permeable (0.6 to 2.0 inches/hour) soils composed of silty clay loam to clay subsoils. The soils are found along long broad gently sloping ridges to sloping ridges to short sloping to moderately steep side slopes (generally 6% to 12%) (Ref. 31). The soil profiles developed from the test borings made at the site confirm that the soils are of the Georgeville Series (Ref. 22).

2.4 Climate and Meteorology

The mean annual precipitation in the Asheboro area is between 47 and 48 inches per year (Ref. 36). The mean annual lake evaporation is 41 inches (Ref. 37). The net precipitation is approximately 6.5 inches annually. The one-year 24-hour precipitation event is 2.9 inches (Ref. 38).

2.5 Land Use

The land use in the immediate vicinity of the plant is a mix between commercial and residential as shown on the Site Vicinity Map (Figure 2, Ref. 39). To the east of the plant is the city of Asheboro. To the west, the area is rural with mountainous like terrain. The nearest residence is within 600 feet of the plant. The plant site is fenced and protected with a locked gate (Ref. 1).

2.6 Population Distribution

The population within a 1-, 2-, 3-, and 4-mile radius of the site was estimated by using the 1989 population data from the Piedmont Triad Council of Government (Ref. 34) supplied by the Asheboro Randolph Chamber of Commerce. The Population Distribution Map was made by superimposing the township population on a USGS 7.5' quadrangle map Figure 3 (Ref. 40). The population data is presented by Township. The following table summarizes the population data:

Radius	Population
1-Mile	2,371
2-Mile	7,371
3-Mile	12,625
4-Mile	17,768

2.7 Water Supply

The major source of water in the region is the City of Asheboro public water supply system which obtains water from Lake Lucas (80%) and the Uwharrie River (20%) 8 miles south of US Route 64 (Ref. 26). This system services about 20,000 people. The remaining population, primarily south and west of the plant site uses private wells as a source of potable water. There are ten (Ref. 27) community wells within 4 miles of the plant site as shown on Figure 4 (Ref. 41). Figure 4 also shows the service area for the Asheboro system and the area served by public and private wells. The nearest dwelling to the plant that uses groundwater is 3500 feet away and to the west of the plant. The community wells serve a combined population of 928. The distribution of people served by these various sources are as follows:

<u>Radius</u>	<u>Community Well Population</u>	<u>Private well Population</u>	<u>Surface Water Population</u>
1-Mile	82	681	1,608
2-Mile	170	3,449	3,752
3-Mile	343	7,280	5,002
4-Mile	928	10,235	6,605

There are no public surface water supplies within 15 river miles downstream of the plant. The sources for the City of Asheboro are upstream of the drainage from the plant.

2.8 Critical and Sensitive Environments

There are no known wetlands or listed endangered species habitats within 15 miles of the site (Ref. 42).

3.0 TARGET ANALYSIS

763 people within a mile of the site use wells for water supply (Ref. 27). The table in Section 2.7 shows the distribution of people using the City of Asheboro surface water supply, community and private groundwater wells. There are no public surface supplies within 15 miles of the site (Ref. 26). As determined the nearest private well is 3500 feet from the plant. Only people on these community well water systems and private wells would be impacted by releases to the groundwater.

The plant is located in a mixed residential and commercial land use part of the community with the nearest residence being 600 feet from the main building (Ref. 43). Impacts from fire or air emissions would mainly impact worker and occupants of buildings near the plant. Because the building is surrounded by a fence and access to storage areas is limited, there is no significant risk to trespassers (Ref. 1).

4.0 WASTE TYPES AND QUANTITIES

The facility generates less than 183 pounds per month of hazardous wastes (Ref. 51). The wastes have shown hazardous levels for mercury, lead, and cadmium based on U.S. EPA approved EP Toxicity tests.

The company discharges wastewaters to the sanitary sewer in accordance with a pretreatment permit (Ref. 4). The process wastes are recycled except for battery case cleaning waters (Ref. 51). Surface runoff that could be contaminated is directed to a diked area near the oil storage tanks. This water is treated before it is discharged to the sanitary sewer (Ref. 1). Solvent wastes and waste oils are recycled by Safety Clean (Ref. 51).

Section 1.6 discusses the amount of fugative emissions that could impact the community via the air route. The estimated maximum release per year of all toxics via air is 0.0014 tons (Ref. 20).

5.0 TOXICOLOGICAL AND CHEMICAL CHARACTERISTICS

Union Carbide Corporation produced dry cell batteries at this plant. The components of concern for this site are zinc, lead, mercury, cadmium, mercury chloride, gasoline, mineral spirits, 1,1,1-trichloroethane, and possibly asbestos and polychlorinated biphenyls (PCBs). The basic chemical and toxicological properties of these substances are summarized below.

Asbestos is a mineral, consisting of fibrous silicates (Ref. 44), that is not soluble in water. Lead is soluble in unspecified weak acids (Ref. 45). Elemental mercury is insoluble in water (Ref. 45), but will dissolve in the presence of concentrated sulfuric acid (Ref. 44). The mercury chloride at the plant could be either mercuric chloride or mercurous chloride. Mercuric chloride is soluble in water and mercurous chloride is only slightly soluble in water (Ref. 44). The solubility of each is increased by hydrochloric acid (Ref. 44). Zinc is soluble in acidic or alkaline solutions, but is insoluble in water (Ref. 45). Cadmium is soluble in nitric acid (Ref. 44) and 1,1,1-trichloroethane is soluble in water (Ref. 46). Polychlorinated biphenyls, of which there are many different forms, or congeners, are generally not very water soluble, with solubilities ranging from 0.0027 to 0.42 mg/L, depending on the extent of chlorination (Ref. 46). Gasoline is insoluble in water (Ref. 44).

1,1,1-Trichloroethane is likely to volatilize from environmental surfaces, based on its high Henry's Law constants (Ref. 48). Gasoline may also volatilize. Asbestos is not volatile, however, damaged asbestos containing materials can release minute asbestos fibers into the air where they can remain suspended for long periods of time. Elemental mercury can volatilize based on its high vapor pressure (Ref. 44). Dissolved polychlorinated biphenyls can volatilize from water (Ref. 46), but this

phenomenon will be attenuated by the strong tendency of these compounds to adsorb to environmental organic matter (Ref. 46). Mineral spirits may volatilize (Ref. 44). None of the other potential site contaminants are expected to be volatile in the environment.

Cadmium metal is a Class B1, or probable human carcinogen by inhalation. There are no data on the carcinogenicity of cadmium by the oral route (Ref. 49). Asbestos is a Class A, or known human carcinogen (Ref. 49). Polychlorinated biphenyls are Class B2, or probable human carcinogen by the oral route (Ref. 50). Lead is a Class B2 carcinogen (Ref. 49). None of the other substances have been classified with respect to carcinogenicity. Mercury is poisonous by inhalation, and is corrosive to skin (Ref. 47). Mercuric chloride and mercurous chloride are poisonous by ingestion (Ref. 47). Mercuric chloride is a severe skin irritant (Ref. 47). Mercurous chloride is moderately toxic by skin contact (Ref. 47). Gasoline is mildly toxic by inhalation. Zinc is a skin irritant (Ref. 47). 1,1,1-Trichloroethane is moderately toxic by skin contact (Ref. 47). Mineral spirits are moderately toxic by inhalation (Ref. 47).

6.0 CONCLUSIONS AND RECOMMENDATION

While this site has demonstrated prior and ongoing releases, the quantities are fairly low. The one confirmed CERCLA governed hazardous material spill of 1,1,1-trichloroethane from the leaky underground storage tank is currently being monitored. Based on the available data, further investigation is not recommended at this time.

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SITE #NCD 003216462

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49. IRIS. Integrated Risk Information System. National Library of Medicine Database. Retrieved May 29, 1990, June 18 or June 25, 1990.
50. Toxicological Profile for Selected PCBs, U. S. Public Health Service and U.S. Environmental Protection Agency, November 1987.
51. Memo to File from Larry Ramsey and Hunter Loftin, Greenhorne & O'Mara, Inc., telephone conversation with Dario Sena, Eveready Battery Company, Asheboro, NC. July 5, 1990.

APPENDIX A
MAPS AND PHOTOGRAPHS

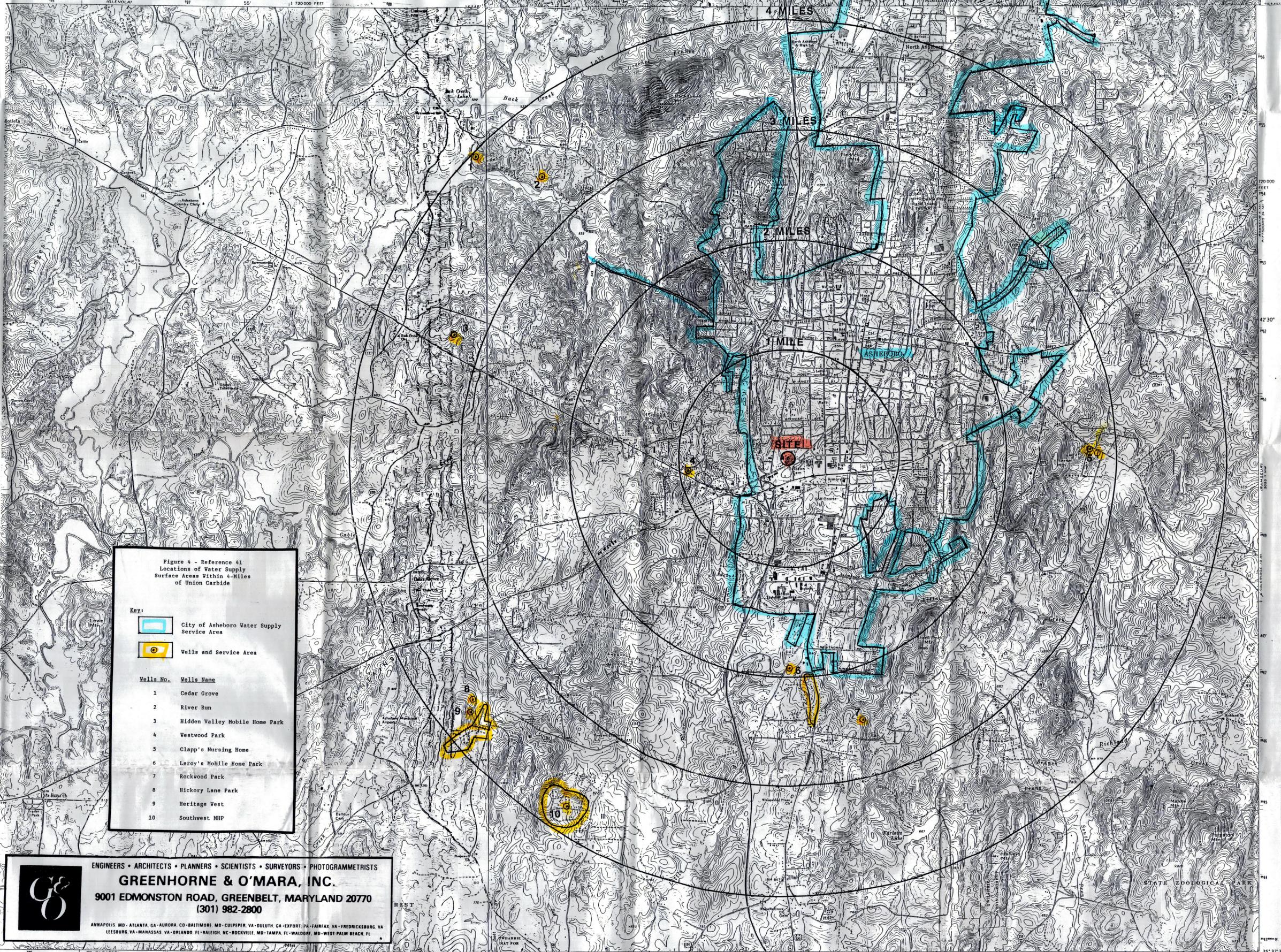


Figure 4 - Reference 41
Locations of Water Supply
Surface Areas Within 4-Miles
of Union Carbide

Key:

- City of Asheville Water Supply Service Area
- Wells and Service Area

Wells No.	Wells Name
1	Cedar Grove
2	River Run
3	Hidden Valley Mobile Home Park
4	Westwood Park
5	Clapp's Nursing Home
6	Leroy's Mobile Home Park
7	Rockwood Park
8	Hickory Lane Park
9	Heritage West
10	Southwest MHP

GREENHORNE & O'MARA, INC.
ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS • PHOTOGRAMMETRISTS
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 • WALDORF, MD • WEST PALM BEACH, FL

SCALE 1:24,000
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

Light duty road, hard or improved surface
Unimproved road
U. S. Route
State Route

Maped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA
Topography by photogrammetric methods from aerial photographs taken 1965. Field checked 1970.
Polyconic projection. 10,000-foot grid ticks based on North Carolina coordinate system. 1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue. 1927 North American Datum. To place on the predicted North American Datum 1983, move the projection lines 11 meters south and 20 meters west as shown by dashed corner ticks.
Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked.
Red tint indicates areas in which only landmark buildings are shown.
There may be private inholdings within the boundaries of the National or State reservations shown on this map.

1974
AKS 5005 III RW—SERIES 784

SCALE 1:24,000
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

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State Route

Maped, edited, and published by the Geological Survey
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1974
AKS 5005 III RW—SERIES 784

ASHEBORO, N.C.
NE 4 ASHEBORO 15 QUADRANGLE
N 3537.5—W 7945.7.5
1970
PHOTOCHIEFS: 1981
DMA 5005 III NE—SERIES 782

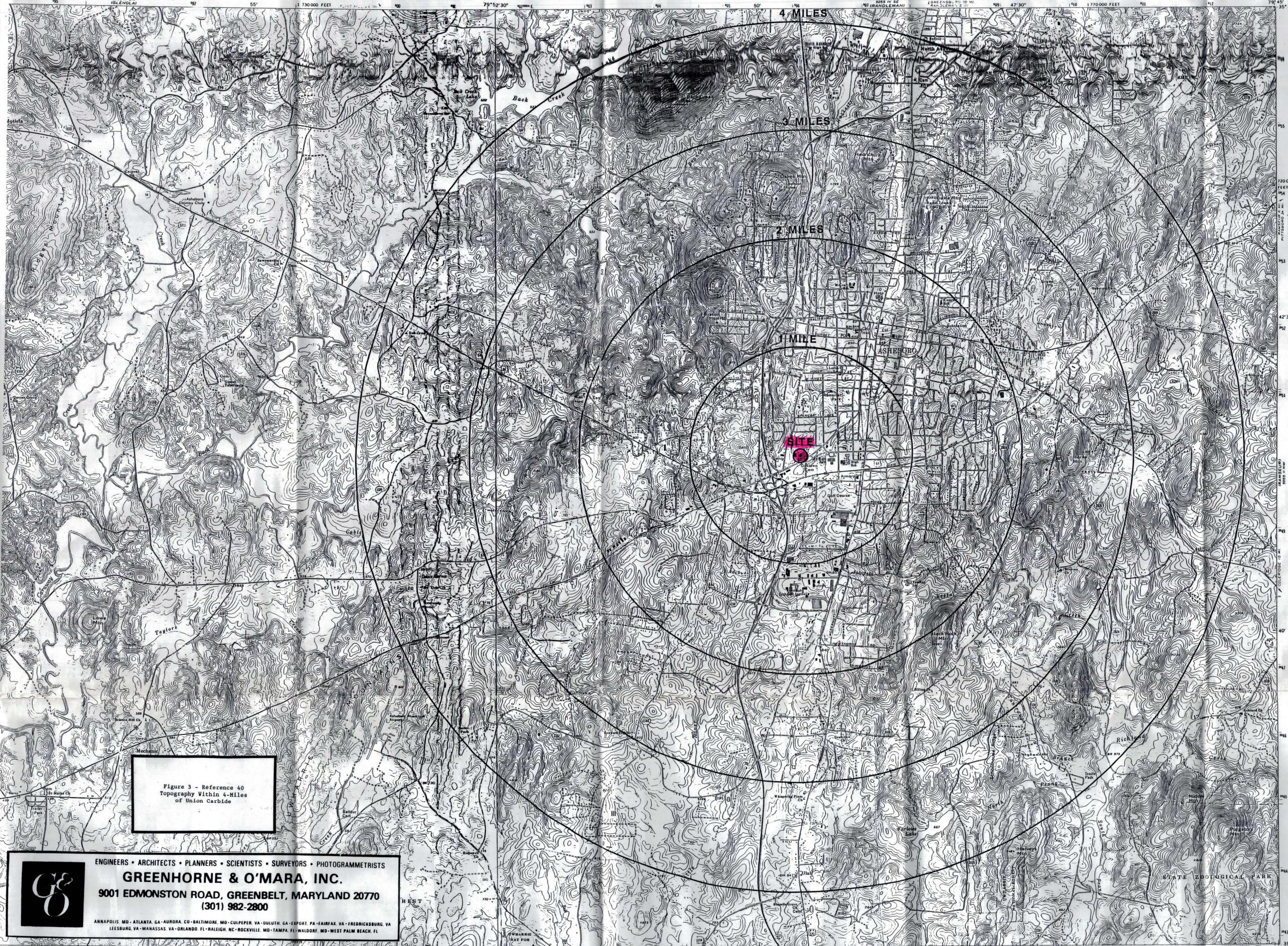
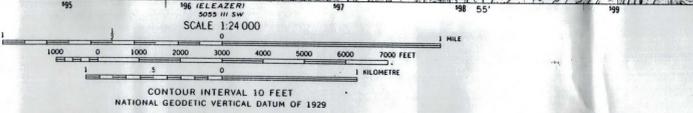


Figure 3 - Reference 40
Topography Within 4-Miles
of Union Carbide

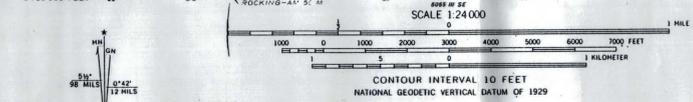
ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS • PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
9001 EDMONSTON ROAD, GREENBELT, MARYLAND 20770
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ANNAPOLIS, MD - ATLANTA, GA - AURORA, CO - BALTIMORE, MD - CULPEPER, VA - DULUTH, GA - EXPORT, PA - FAIRFAX, VA - FREDERICKSBURG, VA
LEESBURG, VA - MANASSAS, VA - ORLANDO, FL - RALEIGH, NC - ROCKVILLE, MD - TAMPA, FL - WALDORF, MD - WEST PALM BEACH, FL



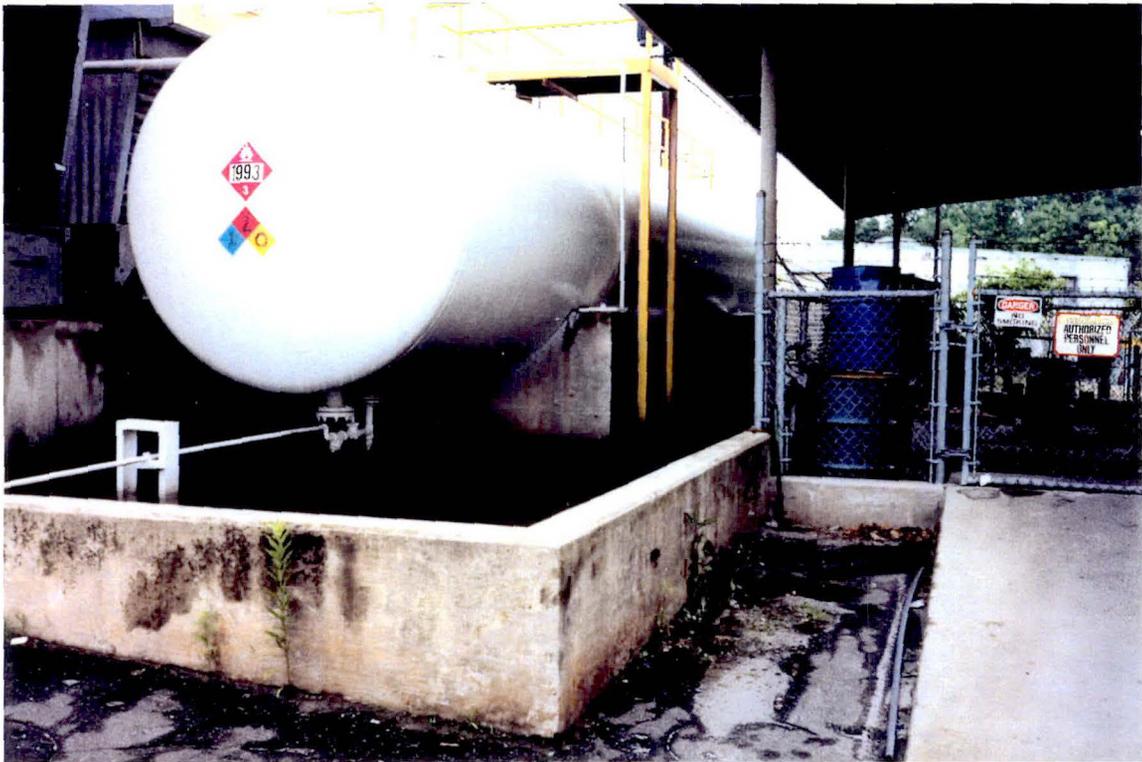
ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Interstate Route
U.S. Route
State Route
Light duty road, hard or improved surface
Unimproved road
U.S. Route
State Route

Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA
Topography by photogrammetric methods from aerial photographs taken 1969. Field checked 1970
Polyconic projection. 10,000-foot grid ticks based on North Carolina coordinate system. 1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue. 1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 11 meters south and 20 meters west as shown by dashed corner ticks
Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked
Red tint indicates areas in which only landmark buildings are shown
There may be private inholdings within the boundaries of the National or State reservations shown on this map

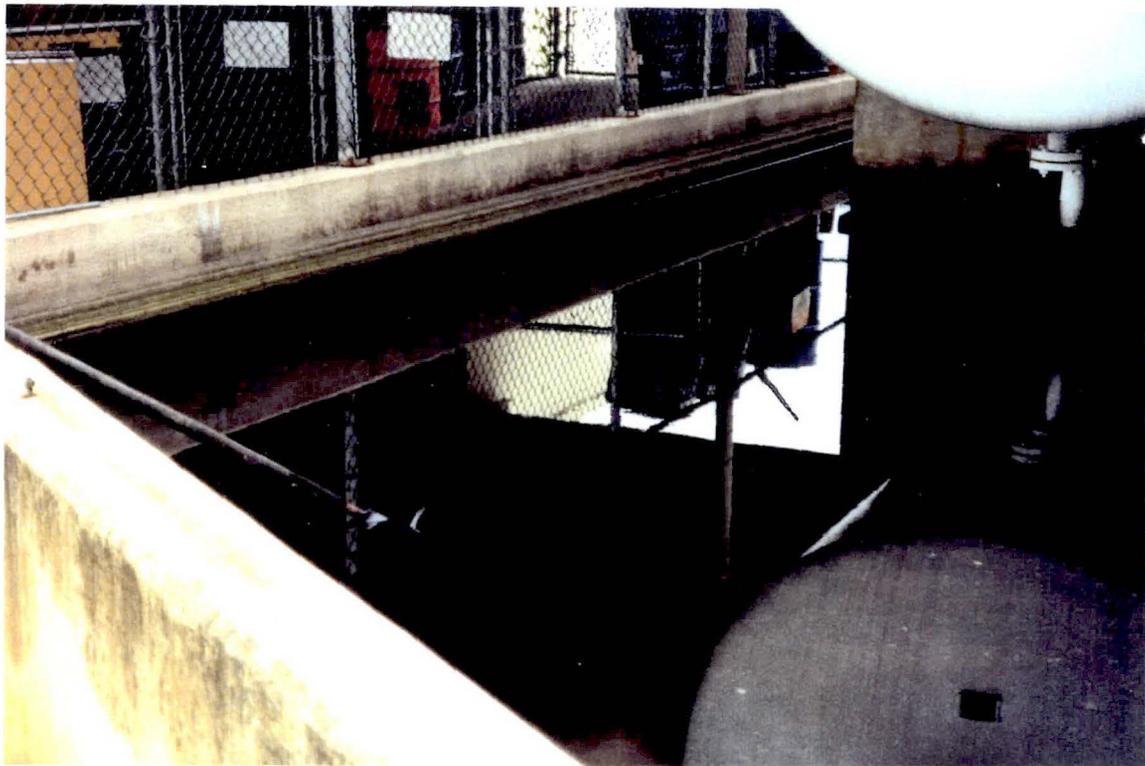


ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Interstate Route
U.S. Route
State Route
Light duty road, hard or improved surface
Unimproved road
U.S. Route
State Route

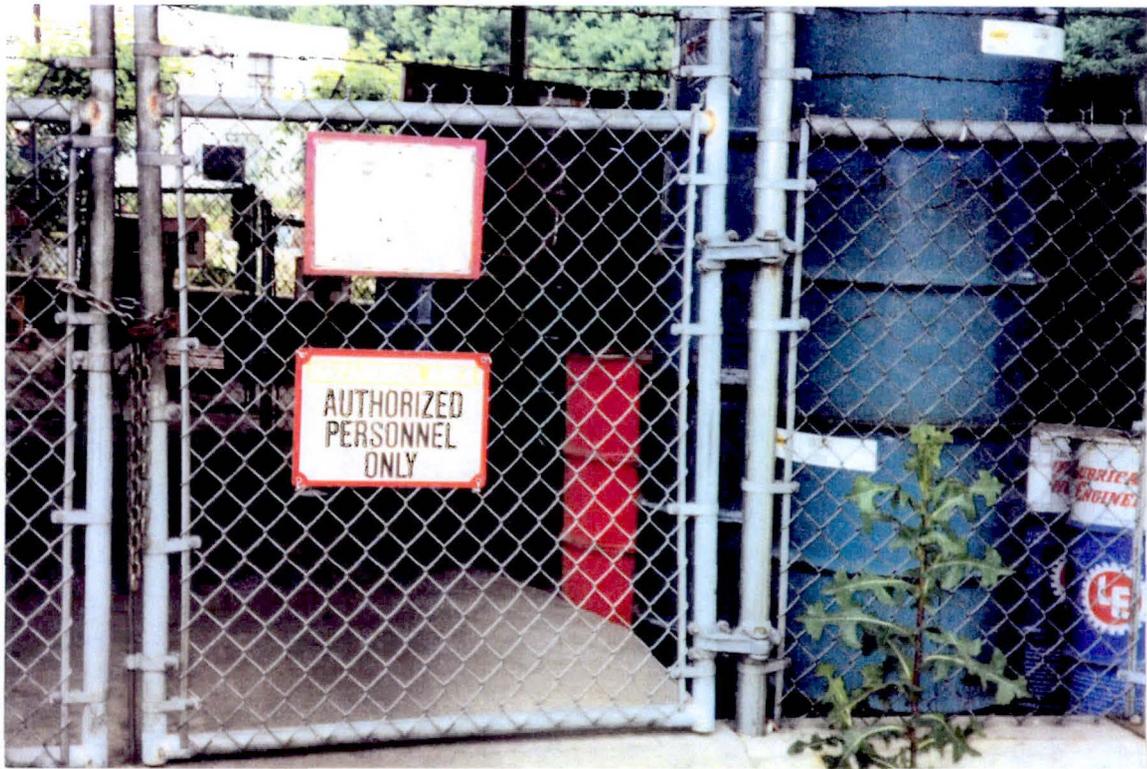
ASHEBORO, N.C.
NE 1/4 ASHEBORO 15' QUADRANGLE
N3537.5-W7945/7.5
1970
PHOTO REVISION 1981
DMA 5055 III NE-SERIES 9442
Union Carbide / Albo 10/82



Photograph 1: Fuel Storage Tank. Hazardous Waste and Chemical Storage areas located on right.



Photograph 2: Stormwater collected in containment under fuel tank.



Photograph 3: Entrance gate to Chemical Storage Area with the Hazardous Storage Area located to the rear at top left of photo.



Photograph 4: Hazardous Waste Storage Area. It is located in a back corner of the Chemical Storage Area.

APPENDIX B
REFERENCES

REFERENCE 1

837633
OC
5 2933
ECKERD
1.99

ECKERD

Compositions

Name Union Carbide Corp.
School 800 Albemarle Rd.
Grade Ashboro, NC 27203

9 3/4 in. x 7 1/2 in. 100 Leaves

AMERICA'S FAMILY DRUG STORE





Eveready Battery Company, Inc.

R. G. Behr
Quality Control Manager
Plant I

P.O. Box 3209, 800 Albemarle Road
Asheboro, NC 27204-3209
(919) 672-3519
Main: (919) 672-3500



Eveready Battery Company, Inc.

Dario A. Sena
Senior Quality Control Engineer
Plant Environmental Coordinator
Plant I

P.O. Box 3209, 800 Albemarle Road
Asheboro, NC 27204-3209
(919) 672-3524
Main: (919) 672-3500

5/25/90

Plant started in 1945

Dario Sena , Env. Coord

Guy McClanahan, Plant Manager

Bob ~~Beer~~
Behr , Head of Lab

The other plant is Alkaline plant
This plant is Carbon - Zinc material plant

Anode-cathode arrangement opposite of other
plant

Alkaline plant started as a 1 room
operation in this plant

2 batteries made here

I used a mercury paste as a separator

I used non-Hg coated paper, used to use a
mercuric-cl paper

Electrolyte paste pills create one

5/25/90

waste stream

In past, Hg lined paper scraps were
the other waste stream

Eng'ty Hg-Cl containers

Now

Have improved Hg handling (Now use PVA bag of
pre weighed Hg sample
drop entire bag in solution)

Reduced Hg by $\frac{1}{2}$ in paste

Recycle Hg containers

Discontinued Hg-paper separator.

=
25 lbs cardboard box/plastic lined - Hg-Cl powder
(fiber board drum) - delivered by truck

1 skid delivered every 2 or 3 months
(Before they made many more batteries
& used 2 x as much Hg)
expect they make $\frac{1}{3}$ in battery vol.

Unloaded - inspected - paste room put into locker & locked
(limited access) carried by forklift. Spilled
product swept up, put into a container and

Mixing - Cathode wet Mix (Mix Room)
Paste - Hg Electrolyte Paste (Paste Room)

5/25/90

sent to GSK.

No drains now. Closed once

laws ~~became~~ ^{reg. and} zero waste outflow to POTW

Case is summer 1982

Problem - absorb ^{sp/16} (Hi Dry) and Kitty litter
+ put in 55-gal drums. Put in
HW stage area thru GSK

Pump leak or overflow in pasta room.

In past, they had a drain to city
sewer. In past, excess could have gone down
drain after standard cleanup
have always been on city sewer & water

Hg inhibits corrosion & internal gassing

Metal caps are cleaned w/ soap &
water. Use Aron & Hammer Soap to
clean caps.

1985/87 is when they reduced Hg use in pasta
L. 1/2

Produce 52% of cells in 1958
Hg tests are

Proprietary

Request copy of plan plus 11
letter

5/25/90

Waste Solvents

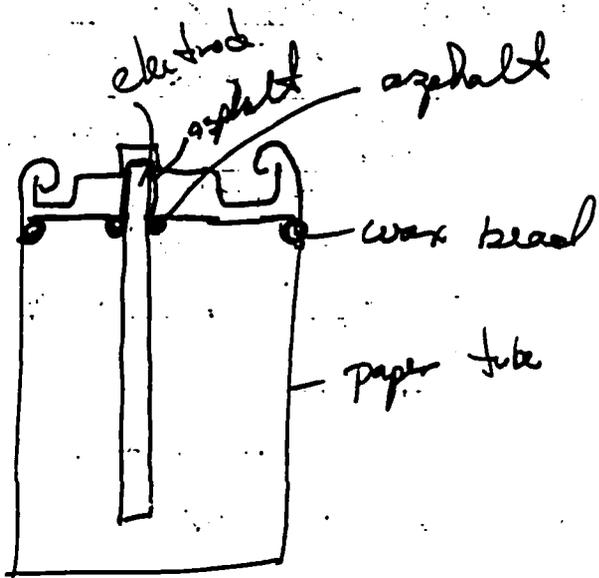
Parts cleaning - use mineral spirits
waste handled (recycled) by Safety Kleen

Have never used halogenated solvents
Use to use ^{super-}agelene and put in
w/ waste oil, 110 Flash Pt.
100 parts picked up by Paragon 071.
which was handled by Safety Kleen.

Waste oil from machine lubrication
changing oil, excess oil.

Accumulation drums - dump gear box
change oil to drum. Then pumped
to storage tank in back of plant.
Before was stored in drums.

Drums ^{were} stored outside the area. Inside
roofed area. Is diked ~~area~~. Has always
been diked & roofed.



5/25/90

Did have capacitors containing PCBs
when laws passed, they tested, found PCBs
and shipped them to Arkansas. Occurred
before 1988.

TCA used until last year

Use to clean dispensing pumps that
applied wax. Wax from beat around paper band
under

Now using petroleum distillate; TRESOLV-IT

Comes in 55-gal drums. Put in roofed
& fenced storage area. Brings into plant
as needed. Opened drums stored
in plant in locked lockers.

Use TCA/H₂O mix in pump cleaning
Waste drum (empty TCA drum) is collected
by Safety Kleen (This waste is residual
wax/TCA/H₂O) SK recycles TCA
Pumped into bucket from TCA drum &

5/25/90

cleaning. Use brush, wetted in bucket
to clean pumps.

Done cleaning 3rd shift.

Access drum kept in locked locker
until Sat. Then taken outside
I clean every 3 to 4 months

Never where any floor drains

No discharge to TOTO allowed from
batteries manufacturing (all drains closed)
Does not include Toilet, cap cleaning)

Get tin plated + nickel plated steel
sheds + punch there over oval caps.

Spills

Oil - 4 seasons cleared it up.
underground pipe for #2 fuel oil
broke (along side roof drain) fuel oil
got into roof drain then to storm

5/25/90

sewer. Reported to Coast Guard. Were
fined \$250.

Removal CSTs found cont.
GW Monitoring system (MC window-filler
GW Dept)

GAS TANK (truck/can gas pump)

1 tank did not pressure.
Soil cut & removed & taken to
Eveready LF. Backfilled hole & covered
w/ concrete. Installed MW. Tank Soil Drings
Initially readings above reg. standards. Has
not changed ~~at~~ over time
~~There~~ Have done 2 yrs of sampling (1 yr
of sampling)

Gas tank last used in early 1980's

No gas drinking water wells nearby.

Sampling of latest round is not
at the state, but is basically
same as before

They perhaps some of plant 2 better
No-HW threat they said.

Spent \$100^k to remove asbestos. Took
2 years. SM&E did initial survey.
Another firm removed it.

WWTP - only mechanical filtration
(Sand then charcoal filtration)
recycled in plant.

Water contains Hg from electrolyte
paste (no zinc come off can) ~ 140% water

Replace Sand & charcoal charred every year
Tested & found to be non-hazardous
before replaced and put into concrete LF.

5/25/90

City Permit of waste sanitary discharge
City samples quarterly - have never
had a problem. They give Serva
a duplicate.

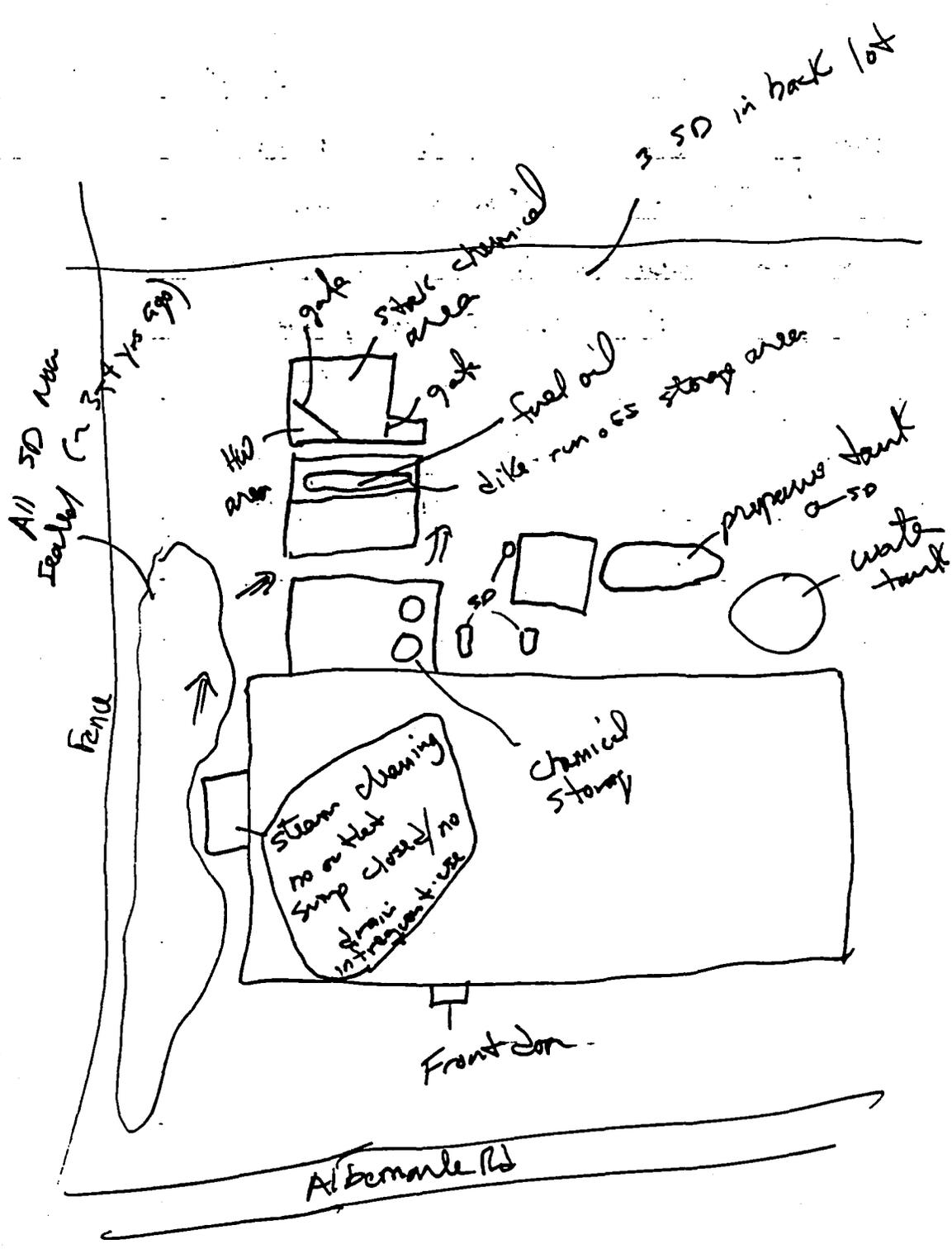
He will provide city permit #.

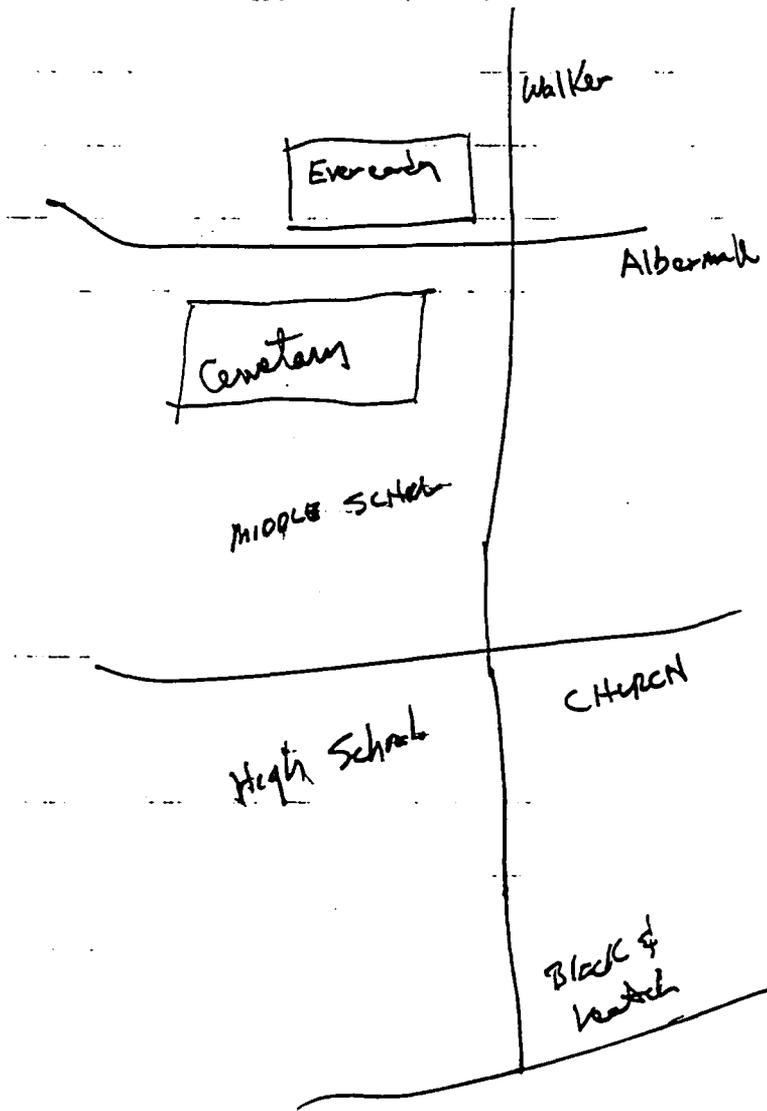
=
Toured plant (2nd Floor contains operations I saw)
When visiting paste room noticed
that dried powder residue had built
up around mixer. Serva said this
collected in 55-gal drums and
taken by GSX. The hand/eye wash
drains to tank. Is used as input
(recycled) for pasta mix along w/
city water.

Wax operations on 2nd floor. Spill kit
+ CA collected w/ Kitty Litter + dumped
into waste drum.

5/25/90

Runoff near chemical/fuel oil tanks
is diverted to a silted area which
is released biannually to city sewer.
A copy of City NPDES was provided
by Saris. This release to
domestic sewer started a little
over 3 yrs ago. Before the release
went to storm drain.





REFERENCE 2

TAX BILL

ACCOUNT PARCEL LISTING

PTX8003

ACCOUNT : 45236

NAME : EVEREADY BATTERY CO INC

PARCEL-ID	IND-SIZE	TWN	PROP. DESC	* BILLING * TYPE CODE	REAL VALUE	EXEMPT
775000474454	A 24.45	01	R49. UWFARRIE ST. ALB	B 010001	3.180.505	0
777200199345	A 5.00	08	R2267:5 NO RD FRYG	W 000000	5.558	0
775300854922	A 14.04	16	ART BRYAN DR: BOTH S	Q 010000	77.838	0
775300756910	A 28.50	16	R1507 & R1510:	W 010000	7.006.600	0

Acres

B - Business - List Pers
W - Busin R/E ONLY ^{SEPARATE BILL}
C - BUSINESS R/E NO PERS.

END OF LIST...HIT (CR) TO CONTINUE?

REFERENCE 3

 POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		I. IDENTIFICATION	
		01 STATE	02 SITE NUMBER
		NC	D003216462
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site) Union Carbide Corporation		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER P.O. Box 849 (800 Albemarle Rd.)	
03 CITY Asheboro	04 STATE NC	05 ZIP CODE 27203	06 COUNTY Randolph
			07 COUNTY CODE 76
			08 CONG DIST 4
09 COORDINATES		LONGITUDE	
LATITUDE 35° 41' 25" N		079° 49' 34" W	
10 DIRECTIONS TO SITE (Starting from nearest public road) Located at 800 Albemarle Road (NC Hwy. 49A), Asheboro, NC			
III. RESPONSIBLE PARTIES			
01 OWNER (If known) Union Carbide Corporation		02 STREET (Business, mailing, residential)	
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER (919 672-1012
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)	
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ()
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN			
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input checked="" type="checkbox"/> A. RCRA 3001 DATE RECEIVED: <u>8, 31, 81</u> <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: _____ / _____ / _____ <input type="checkbox"/> C. NONE MONTH DAY YEAR MONTH DAY YEAR			
IV. CHARACTERIZATION OF POTENTIAL HAZARD			
01 ON SITE INSPECTION <input type="checkbox"/> YES DATE _____ / _____ / _____ <input checked="" type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____	
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION 1972 _____ BEGINNING YEAR ENDING YEAR <input type="checkbox"/> UNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED Mercury, lead, chromium, selenium, EP corrosive materials.			
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION None known. Facility classified as small generator.			
V. PRIORITY ASSESSMENT			
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) <input type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input checked="" type="checkbox"/> D. NONE (No further action needed, complete current disposition form)			
VI. INFORMATION AVAILABLE FROM			
01 CONTACT Joseph H. Deakins		02 OF (Agency/Organization) NC DHR, S&HW Mgmt. Branch	
		03 TELEPHONE NUMBER 919) 563-1818	
04 PERSON RESPONSIBLE FOR ASSESSMENT O.W. Strickland		05 AGENCY NC DHR	06 ORGANIZATION S&HW Mgmt.
		07 TELEPHONE NUMBER (919) 733-2178	08 DATE 12 / 1 / 84 MONTH DAY YEAR

Union Carbide Corporation
800
P.O. Box 849 (Albemarle Rd)
Asheboro, NC 27203

NC D003216462

① small generator only (NOT TSDF)

~~②~~

② they TREAT WASTEWATER (2-22-82 letter from
plant mgr, G.B. McClellan, U.C.C.)

③ GENERATE Waste Oil # Oil - E
(nos"?)

④ PROCESS TOI (ie store in tank)

⑤ NOTIFICATION, 8-31-81, RARA, 8700-12, EPA FORM
Waste Types: this from summary attached

F001 (Meth. Chloride)

F002 Trichloroethylene

F003 Acetone

F005 Methanol

D001 (ignitable) waste flammables, MARKEM 452 (ethane)

D008 (toxic) copper weldwire

NONE epoxy resins, uncured

NONE waste oil

⑥ PART A, 11-18-80,

3,593,400 lbs/year generated of D007 (MERCURY)!

"this represents... highly dilute stream... goes to WTPA."

~~END~~ (NEXT PAGE)

UNIT IN
SHELBY

V.C.C. Ashboro, Albemarle Rd, NC D003216462

④ From PART 1 (EPA Form 3510-1 (6-80) ^{dated} 11-18-
(~~Part 1~~ withdrawing)

- A) TSD F - YES
- B) discharge wastewater - YES (2009 - Hg)
- C) mfg plant for production of primary dry cell batteries

*

⑤ in existence since 1972

SMALL GENERATOR ONLY

UCC Asheville, Alkernale Rd.

NC D003216462

tel 919/672-1012

G. B. McClanahan, Plant Manager

Sena Dario, Q.C. Engineer

- ① how long in existence
- ② any landfilling past or present
- ③ spill history
- ④ Randolph Co. LDFL - special UCC disposal area - YC⁶

McClanahan says: no spills



in general, he was reluctant to give info. I told him I'd arrange for an S.I.

no past or present on-site disposal
give 1948 as date facility opened (however this represents establishment of UCC in general, as I understand it, rather than when that particular facility opened.
indicated that UCC has a special storage area for their non-hay waste at Randolph Co. LDFL.

12-27-84

Hay waste manifests in file indicate

D007	- Cr
D008	- Ph
D009	- Hg
D010	- Selenium
D002	- CORROSIVE

REFERENCE 4

CITY OF ASHEBORO, NORTH CAROLINA

P E R M I TTo Discharge Wastewater Under the
Industrial Pretreatment Program

In compliance with the provisions of the Sewer Use and Pretreatment Ordinance, North Carolina General Statute 143-215.1, other lawful standards and regulations promulgated and adopted by the North Carolina Environmental Management Commission, and the local government.

Eveready Battery Company, Inc.

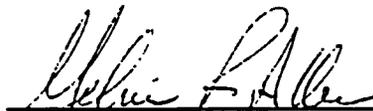
is here by authorized to discharge wastewater from a facility located at

800 Albemarle Road
Asheboro, North Carolina
Randolph County

into the wastewater disposal system (NPDES NC0026123) in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and III of this permit.

This permit shall become effective July 1, 1987.

This permit and the authorization to discharge shall expire at midnight on July 1, 1992.



Superintendent

Part I. Effluent Limitations and Monitoring Requirements

A. Description of Discharge

<u>Pipe</u>	<u>Description</u>
01	Discharge pipe in manhole at rear of plant; wastewater generated by domestic wastes, boiler/tower blowdown, discharges from pipe 02, and dry cell battery manufacturing processes not regulated by categorical standards.
02	Discharge pipe from chemical and fuel oil containment area in rear of plant; wastewater generated by storm water runoff.

B. Effluent Limitations and Monitoring Requirements - Final

Effective immediately and lasting until the expiration date of this permit, the permittee is authorized to discharge wastewater from pipe 01. This discharge shall be limited and monitored as specified below:

<u>Limited Parameter</u>	<u>Limitation</u>	<u>Sample Type</u>	<u>Monitoring Frequency</u>	
			<u>Local Government</u>	<u>Permittee</u>
Flow	140,000 gpd	Meter	6/6 months	N/A
BOD	*	Composite	6/6 months	N/A
pH	5.0 - 10.5 units	Grab	6/6 months	N/A
TKN	*	Composite	6/6 months	N/A
COD	*	Composite	6/6 months	N/A
TSS	*	Composite	6/6 months	N/A
Zinc	3.0 mg/l	Composite	2/6 months	N/A
Copper	0.4 mg/l	Composite	2/6 months	N/A
Mercury	0.01 mg/l	Composite	2/6 months	N/A
Manganese	*	Composite	2/6 months	N/A

* The permittee shall not discharge wastewater containing these parameters in sufficient concentration or quantity to cause interference as defined in the Sewer Use and Pretreatment Ordinance.

The local government reserves the right to revise any of these limits and to establish limits on other parameters when necessary to comply with State and Federal regulations. When the BOD loading to the POTW reaches 10,000 pounds per day, the local government may establish a specific limitation for BOD in accordance with applicable regulations and provisions of the Sewer Use and Pretreatment Ordinance. The local government may enforce the limitations

contained in the Sewer Use and Pretreatment Ordinance for copper and zinc should circumstances warrant prior to the expiration date of this permit. This may result from the adoption of water quality standards for these parameters, adoption of limits for these parameters in the POTW NPDES permit, interference, or other situations affected by the discharge of copper and zinc to the POTW.

The permittee shall maintain records on periods and quantities of discharge from pipe 02 and submit these records to the Superintendent every six months. The permittee shall notify the Superintendent each time before discharging wastewater from pipe 02.

C. Monitoring and Reporting

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other wastestream, body of water, or substance. Monitoring points shall not be changed without notification to, and approval by, the local government.

2. Reporting

Monitoring results obtained by the permittee shall be summarized and reported on the Indirect Discharge Monitoring Report Form (IDMR), when required. If no discharge occurs during the reporting period, "no discharge" shall be reported. Copies of these and all other reports required herein shall be submitted to:

City of Asheboro
P.O. Box 1106
Asheboro, North Carolina 27203

3. Definitions

a. A "composite" sample, for monitoring requirements, is defined as a minimum of eight grab samples collected at equally spaced one hour intervals.

b. A "grab" sample, for monitoring requirements, is defined as a single sample collected at a representative point in the discharge stream.

c. An "instantaneous" measurement, for monitoring requirements, is defined as a single reading, observation, or measurement.

4. Test Procedures

Test procedures for the analysis of pollutants shall conform to those required in the Sewer Use and Pretreatment Ordinance.

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be submitted to the local government. The local government may require more frequent monitoring or the monitoring of other pollutants not required in this permit by written notification.

Part II. General Conditions

A. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Sewer Use and Pretreatment Ordinance and is grounds for possible enforcement action.

B. Duty to Mitigate - Prevention of Adverse Impact

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health, the POTW, the waters receiving the POTW's discharge, or the environment.

C. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible, all control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Bypass of treatment facilities is prohibited except as provided for and in accordance with the requirements set forth by this permit.

D. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutants from such materials from entering the POTW. The permittee is responsible for assuring its compliance with any requirements regarding the generation, treatment, storage, and/or disposal of "Hazardous waste" as defined under the Federal Resource Conservation and Recovery Act.

E. Upset Conditions

An "upset" means an exceptional incident in which there is an unintentional and temporary noncompliance with the effluent limitations of this permit because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed or inadequate treatment facilities, lack of preventive maintenance, or careless or improper operations.

An upset may constitute an affirmative defense for action brought for the noncompliance. The permittee has the burden of proof to provide evidence and demonstrate that none of the factors specifically listed above were responsible for the noncompliance.

F. Right of Entry

The permittee shall allow the staff of the State of North Carolina Department of Natural Resources and Community Development, Division of Environmental Management, the Regional Administrator of the Environmental Protection Agency, or the local government, upon the presentation of credentials:

1. To enter upon the permittee's premises where a real or potential discharge is located or in which records are required to be kept under the terms and conditions of this permit; and
2. At reasonable times to have access to and copy records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

G. Availability of Reports

Except for data determined to be confidential under the Sewer Use and Pretreatment Ordinance, all reports prepared in accordance with terms of this permit shall be available for public inspection. As required by the Ordinance, effluent data shall not be considered confidential.

H. Duty to Provide Information

The permittee shall furnish to the local government, within a reasonable time, any information which the local government or the Division of Environmental Management may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish, upon request, copies of records required to be kept by this permit.

I. Signatory Requirements

All reports or information submitted pursuant to the requirements of this permit shall be signed and certified by an authorized representative of the permittee as defined in the Sewer Use and Pretreatment Ordinance.

J. Toxic Pollutants

If a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Federal Clean Water Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit may be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

K. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

L. Federal and/or State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable Federal and/or State law or regulations.

M. Penalties for Violations of Permit Conditions

The Sewer Use and Pretreatment Ordinance provides for penalties for violations of the Ordinance and Permit conditions.

North Carolina General Statute 143-215 provides that any person who violates a permit condition is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions is subject to a fine of up to \$15,000 per day of violation, or by imprisonment for up to six months, or both.

N. Need to Halt or Reduce not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of the permit.

O. Penalties for Falsification of Reports

The Sewer Use and Pretreatment Ordinance provides that revocation of the permission to discharge, in addition to civil penalties, is the penalty for falsification of any information submitted to the local government, State, or Federal agencies.

NCGS 143-215 provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of up to \$10,000 per violation, or by imprisonment for not more than one year, or by both.

P. Property Rights

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local government laws or regulations.

Q. Severability

The provisions of this permit are severable and, if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

R. Permit Modifications, Revocation, Termination

This permit may be modified, revoked and reissued or terminated with cause in accordance with the requirements of the Sewer Use and Pretreatment Ordinance and North Carolina General Statutes or implementing regulations.

S. Reapplication for Permit Renewal

The permittee is responsible for filing an application for reissuance of this permit within 180 days of its expiration date.

T. Limitations on Permit Transfers

This permit shall not be transferred or reassigned to another user.

Part III. Other Requirements

A. Notification of Production Changes

The permittee shall notify the local government immediately of any change in production rate which would cause a significant change in wastewater flow or characteristics.

B. Construction

No construction of pretreatment facilities or additions thereto shall be begun until final plans and specifications have been submitted to the local government or Division of Environmental Management and written approval and an Authorization to Construct have been issued.

C. Accidental Discharges

The permittee shall provide protection from accidental discharges of prohibited materials or other substances regulated by this permit. The permittee shall immediately notify the local government of accidental discharges of liquids, chemicals, or other materials regardless of whether or not the permittee considers the discharge to be potentially harmful to the wastewater disposal system or to employees of the local government. Within five days following an accidental discharge the permittee shall submit to the local government a detailed written report describing the nature and cause of the discharge and measures taken to prevent similar future occurrences. Such notification shall not relieve the permittee from any liability which may be incurred as a result of the discharge.

REFERENCE 5



UNION CARBIDE CORPORATION P. O. BOX 849, ASHEBORO, N.C. 27203
BATTERY PRODUCTS DIVISION

October 6, 1982



Mr. O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Division of Health Services
P.O. Box 2091
Raleigh, NC 27602

Subject: RCRA Classification
Changes, EPA ID
Number NCD 003216462

Dear Mr. Strickland:

We have reviewed our hazardous waste management operations very carefully. Our treatment facility meets the definition of a wastewater treatment unit per RCRA Part 260.10. As such, this facility is exempt from full TSDF regulatory requirements, therefore, we wish to withdraw our Part A Permit Application. Please either return our Part A Application or send an acknowledgment that the application has been voided.

Based on actual 1981 and 1982 hazardous waste generation rates, this facility qualified as a small quantity waste generator and is therefore not subject to the full range of RCRA regulations. For your reference, a copy of the 1981 NC Annual Report for this facility is attached. Waste generation data for 1982 to date is also provided. As a good business practice, this facility will continue to dispose of wastes at qualified hazardous waste disposal sites and will maintain all appropriate records. To provide adequate traceability of disposal activities we will retain our EPA ID number.

Should there be any questions with respect to our application withdrawal or our determination that we qualify as a small quantity generator, please notify us immediately.

Very truly yours,

G. B. McClanahan
Plant Manager

GBM:mb

Attachments



UNION CARBIDE CORPORATION P. O. BOX 849, ASHEBORO, N.C. 27203
BATTERY PRODUCTS DIVISION

February 22, 1982

RECEIVED
NCD003216462
FEB 26 1982

GENERAL ENGINEERING

Solid and Hazardous Waste
Management Branch
Department of Human Resources
P. O. Box 2091
Raleigh, N. C. 27602

Gentlemen:

Attached is the annual report for our facility as required by the North Carolina Hazardous Waste Management Regulations. The report covers the period January 1, 1981 through December 31, 1981.

Contained in the permit application file for this plant is a letter which clarifies our treatment facility status; a copy of that letter is attached. The only treatment operation at this plant is our wastewater treatment unit. It is our understanding that for this annual report you do not require data from such systems. All other hazardous wastes generated at this plant are shipped off-site for disposal and are so listed on the report form.

Very truly yours

UNION CARBIDE CORPORATION

G. B. McClanahan
Plant Manager

GBM:mb

Attachments

bc: Messrs. A. M. Nash
D. A. Sena

**N. C. 1981 HAZARDOUS WASTE ON-SITE TSD FACILITY
ANNUAL PART B REPORT**

Installation EPA ID Number:

N C D 0 0 3 2 1 6 4 6 2

Name of Installation:

Union Carbide Corporation

Location of Installation:

800 Albemarle Road
(Street or Route Number)

Asheboro
(City or Town)

Randolph
(County)

North Carolina
(State)

27203
(Zip Code)

Installation Contact:

Dario A. Sena
(Name)

919
(Area Code)

672-1012 Ext. 3139
(Phone Number)

Waste Identification:

A. EPA Waste Number	B. Description of Waste	C. Quantity Generated (000's LBS)	D. Amount of Waste by Handling Method			
			1. Handling Method Code	2. Quantity Stored, Treated, Disposed, or Recovered On-Site	3. Quantity Shipped to Off-Site Treatment, Disposal, or Recovery Facility	4. Facility EPA ID No./Recovery Facility Name
None	Waste Oil Nos Orm -E	10	T01	None	10	Oldover Corp. VAD077942266
None	"	18.5	R01	None	18.5	Chem-Care Corp. NC 4299/Alt. 42
None	"	5.5	R01	None	5.5	Hoiston Fuel Co NCD 081333858

(If more space is needed check and complete attachment 1)

Comments:

Signature:

[Handwritten Signature]
(Signature)

G. B. McClanahan
(Print or Type Name)

*Read instructions before completing form.



UNION CARBIDE CORPORATION P. O. BOX 849, ASHEBORO, NC 27203
BATTERY PRODUCTS DIVISION

April 8, 1981

EPA Region IV
RCRA Activities
Permit Contact
Permits Section
U. S. Environmental Protection Agency
345 Courtland Street N.E.
Atlanta, Georgia 30365

EPA ID No. NCDO03216462

Gentlemen:

In November 1980, when we submitted Part A of our permit applications under the RCRA hazardous waste regulations, we had not yet become aware of the November 17, 1980 amendment to those regulations which suspended the applicability of the permit requirements and interim status requirements to qualifying wastewater treatment units. This is to advise you that, in our opinion, our wastewater treatment facility meets the definition of a wastewater treatment unit contained in Sections 260.10(a)(76a) and 122.3 of the regulations (45 Fed. Reg. 76075), and, therefore, is not subject to the requirements of Parts 122, 264, or 265 of the regulations.

The EPA also proposed on November 17, to provide for permit by rule for wastewater treatment units, while at the same time reserving the authority to terminate eligibility for a permit by rule on a case-by-case basis. The proposal is unclear as to whether interim status would be available for a facility which had its permit by rule terminated and, if so, what would be required to obtain interim status. In these circumstances, we would prefer to keep our permit applications pending, at least until the EPA's rule-making on this issue is complete, and therefore do not intend to withdraw our previously filed applications at this time.

Very truly yours,

G. B. McClanahan
Plant Manager

GEM:mb

bc: Messrs. C. K. Shumate
D. A. Sena

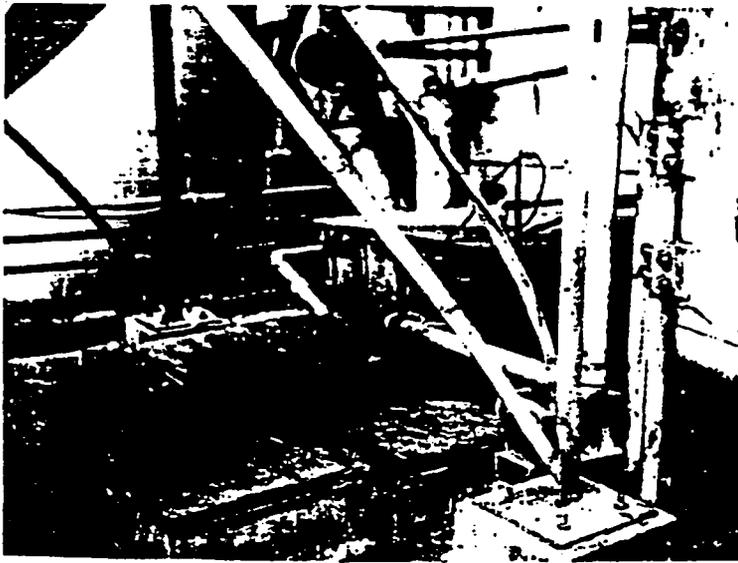
1982 Hazardous Waste Management Summary

Union Carbide Corporation
 800 Albemarle Road
 Asheboro, N. C. 27203

NCD 003216462

<u>EPA Waste Number</u>	<u>Description of Waste</u>	<u>Quantity Generated Thru 9/82</u>	<u>Handling* Method</u>	<u>Shipped to Off-Site Facility</u>	
				<u>Quantity</u>	<u>TSD or Recov</u>
None	Waste Oil NOS ORM-E	32,500 lbs. :	R01	32,500 lbs.	Holston Fuel Co. NCD081333858

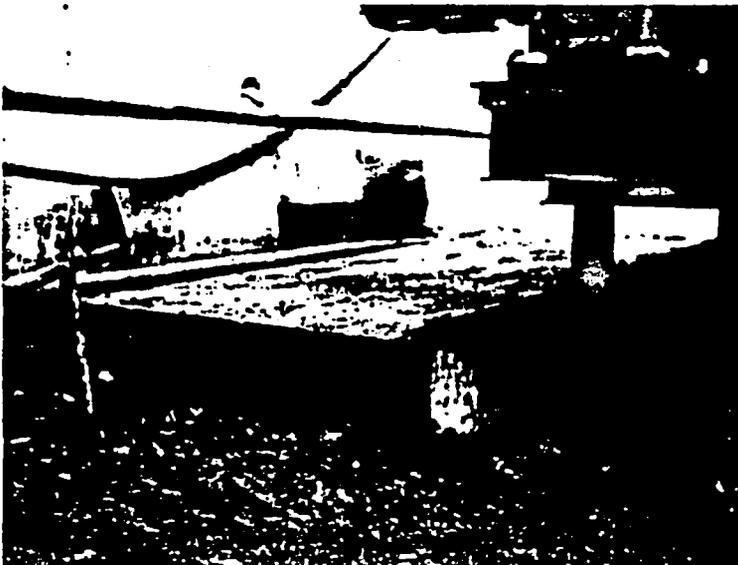
* Same Handling Codes as Specified for 1981 NC Annual Report.



Tanks for separating oil and grease.



Sand filter



Charcoal Filter

REFERENCE 6



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

September 19, 1983

Mr. G. B. McClanahan
Plant Manager
Union Carbide Corporation
P.O. Box 849
Asheboro, N. C. 27203

Dear Mr. McClanahan:

Re: Small Generator Status

North Carolina Hazardous Waste Management Rules 10 NCAC 10F .0029(a), Section 261.5 state that a person who generates in a calendar month or accumulates at any time less than 1,000 kilograms of hazardous waste need not comply with 10 NCAC 10F regulations and is classified as a small generator. Many generators in North Carolina have been classified as small generators, but we occasionally find one storing or shipping over 1,000 kilograms of hazardous waste.

Union Carbide Corporation, EPA ID No. NCD003216462, was classified as a small generator on October 13, 1982. However, a shipment of hazardous waste was sent to SCA Services, EPA ID No. SCDO70375985, on 8/10/83. This shipment, manifest No. 38565, was 4070 pounds indicating an accumulation greater than 1,000 kilograms. Should a second violation occur, you will be subject to an administrative penalty and will be classified as a hazardous waste generator.

Sincerely,

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:ct

cc: Steve Phibbs

HAZARDOUS WASTE MANIFEST

Manifest Number
No. 38565

Name	I.D. Code	Address	Phone Number (area code & number)	Date Shipped or Accepted
(1) Generator UNION CARBIDE CORP	NC0003216462	800 ALBEMARLE RD. P.O. BOX 849 ASHEBORO, N.C. 27203	(919) 672-1012	83 8 10 year month day
(2) Transporter No. 1 OVERNITE TRANS. CO.	044938991	RT. 7 BOX 168 GREENSBORO, N.C. 27407	(919) 629-4111	83 8 10 year month day
Transporter No. 2				1 1 year month day
(3) TSDF SCA SERVICES INC.	SCD070375985	RT 1 BOX 55 PINENWOOD, S.C. 29125	(803) 452-5003	83 8 15 year month day

(1) Generator Item Count		(2) DOT Proper Shipping Name/Hazard Class/ DOT Identification Number	(3) Total Quantity	(4) Weight (pounds)	(5) Waste Code	(6) TSDF Item Check		(7) Quantity by Weight (pounds)
No.	Container Type					Number	Container Type	
6	55 GAL DRUM	HAZARDOUS WASTE SOLID NOS ORM-E NA 9189	330 GAL	2345	D007/D-008/D009 D 010	6	Drums	2,713
3	55 GAL DRUM	PACKAGED LABORATORY WASTE NA 1760 WASTE CORROSIVE liquid, NOS UN 1760	1/2 55 GAL INCLUDING PACKING MATERIAL	1180	CORROSIVE D002	3	Drums	1,357

Emergency Response Information:
 In event of an emergency, phone the Generator at:
(919) 672-1012
 In event of a spill in South Carolina,
 call the Department at (803) 758-5531

D. Special Handling Instructions: Per Manifest
NONE

E. Comments: **Enclosed Van
 WORK ORDER # 24673**

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to all applicable regulations of the U.S. DOT, U.S. EPA, the S.C. PSC and the S.C. DHEC.

Signature: Dario A. Sena Name and Title: DARIO A. SENA SR. Q.C. ENGINEER Date: 8/10/83

I hereby certify that I am an authorized representative of the transporter and that the waste(s) and quantity described in this Manifest have been accepted by us for ultimate delivery to the TSDF identified above

Transporter No. 1: Signature: Charles Linwood Walker Name: Charles Linwood Walker Date: 83-8-10

Transporter No. 2: Signature: _____ Name: _____ Date: _____

I hereby certify that I am an authorized representative of the TSDF identified above and that the waste(s) and quantity in this Manifest have been accepted by me for treatment, storage, and/or disposal.

Signature: Nope Barwick Name and Title: SCA Services, Technicia Date: 8-15-83

HAZARDOUS WASTE MANIFEST

Manifest Document Number
No 42356

Name	I.D. Code	Address	Phone Number (area code & number)	Date Shipped or Accepted
(1) Generator UNION CARBIDE CORP.	SG NCD003216462	800 ALBEMARLE RD. ASHEBORO N.C. 27208	(919) 672-1012	83 1 12 12 year month day
(2) Transporter No. 1 OPERATE TRANS. CO	044932991	RT. 7 BOX 168 GREENSBORO N.C. 27407	(919) 629-4111	83 1 12 12 year month day
Transporter No. 2				83 1 12 12 year month day
(3) TSDF SCA SERVICES INC.	SCD07037592E	RT. 1 BOX 55 PINEWOOD S.C. 29125	(803) 452-5003	83 1 12 128 year month day

Container	Container Type	(2) DOT Proper Shipping Name/Hazard Class/ DOT Identification Number	(3) Total Quantity	(4) Weight (pounds)	(5) Waste Code	(6) TSDF Item Check		(7) Quantity by Weight (pounds)
						Number	Container Type	
4	55-GAL DRUM	HAZARDOUS WASTE SOLID NON ORG-E NA 9189	220 GAL.	1930 LBS	D007/D008/D009 D010	4	DRUMS	0,260
only 5% over limit - no contact with Union Carbide JHR 1/18/84								

C. Emergency Response Information: In event of an emergency, phone the Generator at: <u>(919) 672-1012</u> In event of a spill in South Carolina, call the Department at (803) 758-5531	D. Special Handling Instructions: Enclosed None	E. Comments: 280-6101 WORK ORDER # 27913
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F. This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to all applicable regulations of the U.S. DOT, U.S. EPA, the S.C. PSC and the S.C. DHEC.

Signature: Dario A. Sena Name and Title: DARIO A. SENA SR. Q.C. ENGR. Date: 12-21-83

G. I hereby certify that I am an authorized representative of the transporter and that the waste(s) and quantity described in this Manifest have been accepted by us for ultimate delivery to the TSDF identified above.

Transporter No. 1: Signature: [Signature] Name: [Name] Date: [Date]

Transporter No. 2: Signature: _____ Name: _____ Date: _____

H. I hereby certify that I am an authorized representative of the TSDF identified above and that the waste(s) and quantity in this Manifest have been accepted by me for treatment, storage, and/or disposal.

Signature: Nope Baiwick Name and Title: SCA Services Technician Date: 12-28-83

HAZARDOUS WASTE MANIFEST

Manifest Document Number
Nº 38565

Name	I.D. Code	Address	Phone Number (area code & number)	Date Shipped or Accepted
(1) Generator: UNION CARBIDE CORP	NC D003216462	800 ALBEMARLE RD. P.O. BOX 849 ASHEBORO, N.C. 27203	(919) 672-1012	83 8 10 year month day
(2) Transporter No. 1: OVERNITE TRANS. CO.	044938991	RT. 7 BOX 168 GREENSBORO, N.C. 27407	(919) 629-4111	83 8 10 year month day
Transporter No. 2:				1 1 1 year month day
(3) TSDF: SCA SERVICES INC.	SC D070375985	RT 1 BOX 55 PINENWOOD, S.C. 29125	(803) 452-5003	83 8 15 year month day

(1) Generator Item Count		(2) DOT Proper Shipping Name/Hazard Class/ DOT Identification Number	(3) Total Quantity	(4) Weight (pounds)	(5) Waste Code	(6) TSDF Item Check		(7) Quantity by Weight (pounds)
No.	Container Type					Number	Container Type	
6	55 GAL DRUM	HAZARDOUS WASTE SOLID NOS ORM-E NA 9189	330 GAL	2395	D007/D-008/D009 D010	6	Drums	2,713
3	55 GAL DRUM	PACKAGED LABORATORY WASTE NA 1760 WASTE CORROSIVE liquid; NOS UN 1760	1/5 GAL INCLUDING PACKING MATERIAL)	1180	CORROSIVE D002	3	Drums	1,357

Emergency Response Information: In event of an emergency, phone the Generator at: <u>(919) 672-1012</u> In event of a spill in South Carolina, call the Department at (803) 758-5531	D. Special Handling Instructions: <u>Per Manifest</u> <p style="text-align: center; font-size: 1.5em;">NONE</p>	E. Comments: <u>Enclosed Van</u> <p style="text-align: center; font-size: 1.5em;">WORK ORDER # 24673</p>
---	--	---

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to all applicable regulations of the U.S. DOT, U.S. EPA, the S.C. PSC and the S.C. DHEC.

<u><i>David Beas</i></u> Signature	<u>DARIO A. SENA SR. Q.C. ENGINEER</u> Name and Title	<u>8/10/83</u> Date
---------------------------------------	---	-------------------------------

I hereby certify that I am an authorized representative of the transporter and that the waste(s) and quantity described in this Manifest have been accepted by us for ultimate delivery to the TSDF identified above

Transporter No. 1: <u><i>Charles Linwood Walker</i></u> Signature	<u>Charles Linwood Walker</u> Name	<u>83-8-10</u> Date
Transporter No. 2: _____ Signature	_____ Name	_____ Date

I hereby certify that I am an authorized representative of the TSDF identified above and that the waste(s) and quantity in this Manifest have been accepted by me for treatment, storage, and/or disposal.

<u><i>Hope Barwick</i></u> Signature	<u>SCA Services, Technician</u> Name and Title	<u>8-15-83</u> Date
---	--	-------------------------------

Name	I.D. Code	Address	Phone Number (area code & number)	Date Shipped or Accepted
(1) Generator UNION CARBIDE CORP.	NC0003216462	800 ALBEMARLE RD. ASHEBORO N.C. 27208	(919) 672-1012	83 1 12 1983 year month day
(2) Transporter No. 1 OVERATE TRANS. CO	044932991	RT. 7 BOX 168 GREENSBORO N.C. 27407	(919) 629-4111	1 1 1 1983 year month day
Transporter No. 2				1 1 1 1983 year month day
(3) TSDF SCA SERVICES INC.	SC007037598E	RT. 1 BOX 55 PINEWOOD S.C. 29125	(803) 452-5003	83 1 12 1983 year month day

(1) Generator Item Count		(2) DOT Proper Shipping Name/Hazard Class/ DOT Identification Number	(3) Total Quantity	(4) Weight (pounds)	(5) Waste Code	(6) TSDF Item Check		(7) Quantity by Weight (pounds)
Qty	Container Type					Number	Container Type	
4	55-GAL DRUM	HAZARDOUS WASTE SOLID NOS OR-M-E NA 9189	220 GAL.	1930 LBS	D007/D008/D009 D010	4	DRUMS	0.26
<i>only 5% over limit - no contact with Union Carbide</i>								
<i>JHR 1/18/84</i>								

C. Emergency Response Information: In event of an emergency, phone the Generator at: (919) 672-1012 In event of a spill in South Carolina, call the Department at (803) 758-5531	D. Special Handling Instructions: NONE <i>Enclosed</i> <i>Van</i>	E. Comments: 280-6101 # WORK ORDER 27913
---	--	---

F. This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to all applicable regulations of the U.S. DOT, U.S. EPA, the S.C. PSC and the S.C. DHEC.

David A. Sena **DARIO A. SENA SR. O.C. ENGR.** **12-21-83**

G. I hereby certify that I am an authorized representative of the transporter and that the waste(s) and quantity described in this Manifest have been accepted by us for ultimate delivery to the TSDF identified above

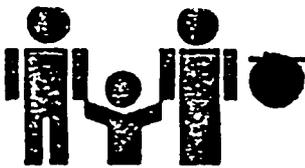
Transporter No. 1: *Charles A. ...* *...* *...*

Transporter No. 2: _____

H. I hereby certify that I am an authorized representative of the TSDF identified above and that the waste(s) and quantity in this Manifest have been accepted by me for treatment, storage, and/or disposal.

Nope Barwick **SCA Services Technician** **12-28-83**

REFERENCE 7



Kerby

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

Date: October 13, 1982

Mr. G. B. McClanahan
Union Carbide Corporation
P.O.Box 849
Asheboro, NC 27203

Re: Facility ID No. NCD003216462

Dear Mr. McClanahan:

Based on information supplied by you we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

<u>Add As</u>	<u>Delete As</u>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	generator
<input type="checkbox"/>	<input type="checkbox"/>	transporter
<input type="checkbox"/>	<input checked="" type="checkbox"/>	treater
<input type="checkbox"/>	<input type="checkbox"/>	storer
<input type="checkbox"/>	<input type="checkbox"/>	disposer
<input checked="" type="checkbox"/>	<input type="checkbox"/>	small generator

We are advising EPA of the change in your status. Please notify us if there is any further change in your operations which would again affect your status. Your EPA ID NO. is is not being cancelled.

Cordially,

O. W. Strickland

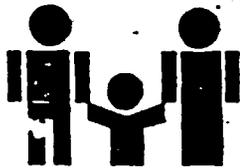
O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS

cc: John Herrmann
EPA Region IV
Emil Breckling
Steve Phibbs

DHS Form 3048 3/82
Solid & Haz. Waste Mgt. Branch

REFERENCE 8



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

September 19, 1983

Mr. G. B. McClanahan
Plant Manager
Union Carbide Corporation
P.O. Box 849
Asheboro, N. C. 27203

Dear Mr. McClanahan:

Re: Small Generator Status

North Carolina Hazardous Waste Management Rules 10 NCAC 10F .0029(a), Section 261.5 state that a person who generates in a calendar month or accumulates at any time less than 1,000 kilograms of hazardous waste need not comply with 10 NCAC 10F regulations and is classified as a small generator. Many generators in North Carolina have been classified as small generators, but we occasionally find one storing or shipping over 1,000 kilograms of hazardous waste.

Union Carbide Corporation, EPA ID No. NCD003216462, was classified as a small generator on October 13, 1982. However, a shipment of hazardous waste was sent to SCA Services, EPA ID No. SCD070375985, on 8/10/83. This shipment, manifest No. 38565, was 4070 pounds indicating an accumulation greater than 1,000 kilograms. Should a second violation occur, you will be subject to an administrative penalty and will be classified as a hazardous waste generator.

Sincerely,

G. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:ct

cc: Steve Phibbs

HAZARDOUS WASTE MANIFEST

Manifest Document Number
Nº 38565

Name	I.D. Code	Address	Phone Number (area code & number)	Date Shipped or Accepted
(1) Generator UNION CARBIDE CORP	NC D003216462	800 ALBEMARLE RD. P.O. BOX 849 ASHEBORO, N.C. 27202	(919) 672-1012	83 8 110 year month day
(2) Transporter No. 1 OVERNITE TRANS. CO.	044938991	RT. 7 BOX 168 GREENSBORO, N.C. 27407	(919) 629-4111	83 8 110 year month day
Transporter No. 2				1 1 year month day
(3) TSDF SCA SERVICES INC.	SC D070375985	RT 1 BOX 55 PINELAND, S.C. 29125	(803) 452-5003	83 8 115 year month day

(1) Generator Item Count		(2) DOT Proper Shipping Name/Hazard Class/ DOT Identification Number	(3) Total Quantity	(4) Weight (pounds)	(5) Waste Code	(6) TSDF Item Check		(7) Quantity by Weight (pounds)
Number	Container Type					Number	Container Type	
6	55 GAL DRUM	HAZARDOUS WASTE SOLID NOS ORM-E NA 9189	330 GAL	2345	D001/D-008/D009 D010	6	DRUMS	2,713
3	55 GAL DRUM	PACKAGED LABORATORY WASTE NA 1760 WASTE CORROSIVE liquid, NOS UN 1760	1/25 GAL INCLUDING PACKING MATERIAL	1180	CORROSIVE D002	3	DRUMS	1,357

Emergency Response Information:
 In event of an emergency, phone the Generator at: **(919) 672-1012**
 In event of a spill in South Carolina,
 call the Department at (803) 758-5531

D. Special Handling Instructions: *(Per Manifest)*
NONE

E. Comments: **ENCLOSED VAN
 WORK ORDER # 24673**

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to all applicable regulations of the U.S. DOT, U.S. EPA, the S.C. PSC and the S.C. DHEC.

David Green Signature **DARIO A. SENA SR. O.C. ENGINEER** Name and Title **8/10/83** Date

I hereby certify that I am an authorized representative of the transporter and that the waste(s) and quantity described in this Manifest have been accepted by us for ultimate delivery to the TSDF identified above

Transporter No. 1: *Charles Linwood Walker* Signature **Charles Linwood Walker** Name **83-8-10** Date

Transporter No. 2: _____ Signature _____ Name _____ Date

I hereby certify that I am an authorized representative of the TSDF identified above and that the waste(s) and quantity in this Manifest have been accepted by me for treatment, storage, and/or disposal.

Hope Barwick Signature **SCA Services, Technician** Name and Title **8-15-83** Date

HAZARDOUS WASTE MANIFEST

Manifest Document Number

No: 42356

Name	I.D. Code	Address	Phone Number (area code & number)	Date Shipped or Accepted
(1) Generator UNION CARBIDE CORP.	SG NCD003216462	300 ALBEMARLE RD. ASHEBORO N.C. 27208	(919) 672-1012	83 1 12 12 year month day
(2) Transporter No. 1 OPERATE TRANS. CO	044932991	RT. 7 BOX 168 GREENSBORO N.C. 27407	(919) 629-4111	83 1 12 12 year month day
Transporter No. 2				83 1 12 12 year month day
(3) TSDF SCA SERVICES INC.	SCD07037592E	RT. 1 BOX 55 PINELAND S.C. 29125	(803) 452-5003	83 1 12 12 year month day

(1) Generator Item Count		(2) DOT Proper Shipping Name/Hazard Class/ DOT Identification Number	(3) Total Quantity	(4) Weight (pounds)	(5) Waste Code	(6) TSDF Item Check		(7) Quantity by Weight (pounds)
Drum	Container Type					Number	Container Type	
4	55-GAL DRUM	HAZARDOUS WASTE SOLID NON ORM-E NA 9189	220 GAL.	1950 LBS	D007/D008/D009 D010	4	DRUMS	0.26
<i>only 5% over limit - no contract with Union Carbide</i>								
<i>JHR 1/12/84</i>								

Emergency Response Information: In event of an emergency, phone the Generator at: 919-672-1012 In event of a spill in South Carolina, call the Department at (803) 758-5531	D. Special Handling Instructions: NONE <i>Enclosed</i> <i>Van</i>	E. Comments: 280-6101 WORK ORDER # 27913
---	--	---

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to all applicable regulations of the U.S. DOT, U.S. EPA, the S.C. PSC and the S.C. DHEC.

David A. Sena **DARIO A. SENA SR. O.C. ENGR.** **12-21-83**

I hereby certify that I am an authorized representative of the transporter and that the waste(s) and quantity described in this Manifest have been accepted by us for ultimate delivery to the TSDF identified above

Transporter No. 1:	<i>Charles ...</i>	<i>...</i>	<i>...</i>
Transporter No. 2:			

I hereby certify that I am an authorized representative of the TSDF identified above and that the waste(s) and quantity in this Manifest have been accepted by me for treatment, storage, and/or disposal.

Nope Bairwick **SCA Services Technician** **12-28-83**

HAZARDOUS WASTE MANIFEST

Manifest Document Number
No 38565

Name (1) Generator: UNION CARBIDE CORP	I.D. Code NC D003216462	Address 800 ALBEMARLE RD. P.O. BOX 849 ASHEBORO, N.C. 27203	Phone Number (area code & number) (419) 672-1012	Date Shipped or Accepted 83 8 10 year month day
Transporter No. 1 OVERNITE TRANS. CO.	044938991	RT. 7 BOX 168 GREENSBORO, N.C. 27407	(419) 629-4111	83 8 10 year month day
Transporter No. 2				1 1 year month day
(3) TSDF SCA SERVICES INC.	SC D070375485	RT 1 BOX 55 PINELAND, S.C. 29125	(803) 452-5003	83 8 15 year month day

No.	(1) Generator Item Count Container Type	(2) DOT Proper Shipping Name/Hazard Class/ DOT Identification Number	(3) Total Quantity	(4) Weight (pounds)	(5) Waste Code	(6) TSDF Item Check		(7) Quantity by Weight (pounds)
						Number	Container Type	
6	55 GAL DRUM	HAZARDOUS WASTE SOLID NOS ORM-E NA 9189	330 GAL	2345	D007/D-008/D009 D010	6	Drums	2,713
3	55 GAL DRUM	PACKAGED LABORATORY WASTE- NA 1760 WASTE CORROSIVE liquid; NOS UN 1760	165 GAL INCLUDING PACKING MATERIAL	1180	CORROSIVE D002	3	Drums	1,357

Emergency Response Information:
 In event of an emergency, phone the Generator at:
(419) 672-1012
 In event of a spill in South Carolina,
 call the Department at (803) 758-5531

D. Special Handling Instructions: PER MANSUET
NONE

H. Comments: ENCLOSED VAN
WORK ORDER # 24673

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to all applicable regulations of the U.S. DOT, U.S. EPA, the S.C. PSC and the S.C. DHEC.

Dario Serna Signature DARIO A. SERNA SR. A.C. ENGINEER Name and Title 8/10/83 Date

I hereby certify that I am an authorized representative of the transporter and that the waste(s) and quantity described in this Manifest have been accepted by us for ultimate delivery to the TSDF identified above

Transporter No. 1: Charles Linwood Walker Signature Charles Linwood Walker Name 83-8-10 Date

Transporter No. 2: _____ Signature _____ Name _____ Date

I hereby certify that I am an authorized representative of the TSDF identified above and that the waste(s) and quantity in this Manifest have been accepted by me for treatment, storage, and/or disposal.

Hope Barwick Signature SCA Services, Technician Name and Title 8-15-83 Date

HAZARDOUS WASTE MANIFEST

Name	I.D. Code	Address	Phone Number (area code & number)	Date Shipped or Accepted
(1) Generator UNION CARBIDE CORP.	NC0003216462	800 ALBEMARLE RD. ASHEBORO N.C. 27208	(919) 672-1012	83 1 12 1983 year month day
(2) Transporter No. 1 OVERITE TRANS. CO	044932991	RT. 7 BOX 168 GREENSBORO N.C. 27407	(919) 629-4111	year month day
Transporter No. 2				year month day
(3) TSDF SCA SERVICES INC.	SC007037592E	RT. 1 BOX 55 PINELAND S.C. 29126	(803) 452-5003	83 1 12 1983 year month day

(1) Generator Item Count		(2) DOT Proper Shipping Name/Hazard Class/ DOT Identification Number	(3) Total Quantity	(4) Weight (pounds)	(5) Waste Code	(6) TSDF Item Check		(7) Quantity by Weight (pounds)
per	Container Type					Number	Container Type	
4	55-GAL DRUM	HAZARDOUS WASTE SOLID NOX ORM-E NA 9189	220 GAL.	1950 LBS	D007/D008/D009 D010	4	DRUMS	2260
ONLY 5% OVER LIMIT - NO CONTACT WITH UNION CARBIDE JHR 1/18/84								

Emergency Response Information: In event of an emergency, phone the Generator at: <u>919 672-1012</u> In event of a spill in South Carolina, call the Department at (803) 758-5531	D. Special Handling Instructions: Enclosed None	E. Comments: 280-6101 WORK ORDER # 27913
---	--	---

F. This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to all applicable regulations of the U.S. DOT, U.S. EPA, the S.C. PSC and the S.C. DHEC.

Signature: Dario A. Sena Name and Title: DARIO A. SENA SR. O.C. ENGR. Date: 12-21-83

G. I hereby certify that I am an authorized representative of the transporter and that the waste(s) and quantity described in this Manifest have been accepted by us for ultimate delivery to the TSDF identified above

Transporter No. 1: Charles J. Wilkins Signature: Charles J. Wilkins Name: Charles J. Wilkins Date: 12-21-83

Transporter No. 2: _____ Signature: _____ Name: _____ Date: _____

H. I hereby certify that I am an authorized representative of the TSDF identified above and that the waste(s) and quantity in this Manifest have been accepted by me for treatment, storage, and/or disposal.

Signature: Nope Baiarick Name and Title: SCA Services Technician Date: 12-28-83

REFERENCE 9



UNION CARBIDE CORPORATION P. O. BOX 849, ASHEBORO, N.C. 27203
BATTERY PRODUCTS DIVISION

October 6, 1982

William R. ...



Mr. O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Division of Health Services
P.O. Box 2091
Raleigh, NC 27602

Subject: RCRA Classification
Changes, EPA ID
Number NCD 003216462

Dear Mr. Strickland:

We have reviewed our hazardous waste management operations very carefully. Our treatment facility meets the definition of a wastewater treatment unit per RCRA Part 260.10. As such, this facility is exempt from full TSDF regulatory requirements, therefore, we wish to withdraw our Part A Permit Application. Please either return our Part A Application or send an acknowledgment that the application has been voided.

Based on actual 1981 and 1982 hazardous waste generation rates, this facility qualified as a small quantity waste generator and is therefore not subject to the full range of RCRA regulations. For your reference, a copy of the 1981 NC Annual Report for this facility is attached. Waste generation data for 1982 to date is also provided. As a good business practice, this facility will continue to dispose of wastes at qualified hazardous waste disposal sites and will maintain all appropriate records. To provide adequate traceability of disposal activities we will retain our EPA ID number.

Should there be any questions with respect to our application withdrawal or our determination that we qualify as a small quantity generator, please notify us immediately.

Very truly yours,

G. B. McClanahan

G. B. McClanahan
Plant Manager

GBM:mb

Attachments



UNION CARBIDE CORPORATION P. O. BOX 849, ASHEBORO, N.C. 27203
BATTERY PRODUCTS DIVISION

February 22, 1982

RECEIVED
NCD003216462
FEB 26 1982
GENERAL ENGINEERING

Solid and Hazardous Waste
Management Branch
Department of Human Resources
P. O. Box 2091
Raleigh, N. C. 27602

Gentlemen:

Attached is the annual report for our facility as required by the North Carolina Hazardous Waste Management Regulations. The report covers the period January 1, 1981 through December 31, 1981.

Contained in the permit application file for this plant is a letter which clarifies our treatment facility status; a copy of that letter is attached. The only treatment operation at this plant is our wastewater treatment unit. It is our understanding that for this annual report you do not require data from such systems. All other hazardous wastes generated at this plant are shipped off-site for disposal and are so listed on the report form.

Very truly yours

UNION CARBIDE CORPORATION

G. B. McClanahan
Plant Manager

GBM:mb

Attachments

bc: Messrs. A. M. Nash
D. A. Sena

**N. C. 1981 HAZARDOUS WASTE ON-SITE TST FACILITY
ANNUAL PART B REPORT**

Installation EPA ID Number:

N C D 0 0 3 2 1 6 4 6 2

Name of Installation:

Union Carbide Corporation

Location of Installation:

800 Albemarle Road
(Street or Route Number)

Asheboro
(City or Town)

Randolph
(County)

North Carolina
(State)

27203
(Zip Code)

Installation Contact:

Dario A. Sena
(Name)

919
(Area Code)

672-1012 Ext. 3139
(Phone Number)

Waste Identification:

A. EPA Waste Number	B. Description of Waste	C. Quantity Generated (000's LBS)	D. Amount of Waste by Handling Method			
			1. Handling Method Code	2. Quantity Stored, Treated, Disposed, or Recovered On-Site	3. Quantity Shipped to Off-Site Treatment, Disposal, or Recovery Facility	4. Facility EPA ID No./Recovery Facility Name
None	Waste Oil Nos Orm -E	10	T01	None	10	Oldover Corp. VAD077942266
None	"	18.5	R01	None	18.5	Chem-Care Corp. NC 4299/Alt. 42:
None	"	5.5	R01	None	5.5	Hoiston Fuel Co NCD 081333858

(If more space is needed check and complete attachment 1)

Comments:

Signature: *[Handwritten Signature]*
(Signature)

G. B. McClanahan
(Print or type Name)

*Read instructions before completing form.



UNION CARBIDE CORPORATION P. O. BOX 849, ASHEBORO, NC. 27203
BATTERY PRODUCTS DIVISION

April 8, 1981

EPA Region IV
RCRA Activities
Permit Contact
Permits Section
U. S. Environmental Protection Agency
345 Courtland Street N.E.
Atlanta, Georgia 30365

EPA ID No. NCDO03216462

Gentlemen:

In November 1980, when we submitted Part A of our permit applications under the RCRA hazardous waste regulations, we had not yet become aware of the November 17, 1980 amendment to those regulations which suspended the applicability of the permit requirements and interim status requirements to qualifying wastewater treatment units. This is to advise you that, in our opinion, our wastewater treatment facility meets the definition of a wastewater treatment unit contained in Sections 260.10(a)(76a) and 122.3 of the regulations (45 Fed. Reg. 76075), and, therefore, is not subject to the requirements of Parts 122, 264, or 265 of the regulations.

The EPA also proposed on November 17, to provide for permit by rule for wastewater treatment units, while at the same time reserving the authority to terminate eligibility for a permit by rule on a case-by-case basis. The proposal is unclear as to whether interim status would be available for a facility which had its permit by rule terminated and, if so, what would be required to obtain interim status. In these circumstances, we would prefer to keep our permit applications pending, at least until the EPA's rule-making on this issue is complete, and therefore do not intend to withdraw our previously filed applications at this time.

Very truly yours,

G. B. McClanahan
Plant Manager

GBM:mb

bc: Messrs. C. K. Shumate
D. A. Sena

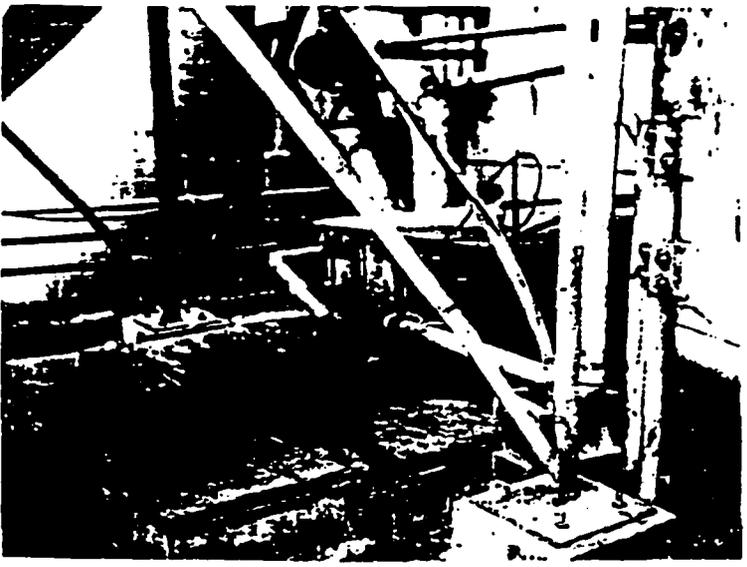
1982 Hazardous Waste Management Summary

Union Carbide Corporation
 800 Albemarle Road
 Asheboro, N. C. 27203

NCD 003216462

<u>EPA Waste Number</u>	<u>Description of Waste</u>	<u>Quantity Generated Thru 9/82</u>	<u>Handling* Method</u>	<u>Shipped to Off-Site Facility</u>	
				<u>Quantity</u>	<u>TSD or Recov</u>
None	Waste Oil NOS ORM-E	32,500 lbs.	R01	32,500 lbs.	Holston Fuel Co. NCD08133385

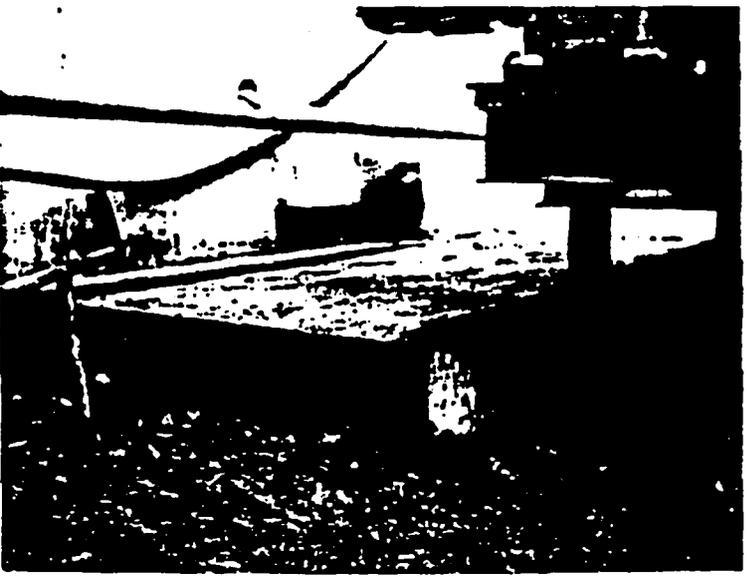
* Same Handling Codes as Specified for 1981 NC Annual Report.



Tanks for separating oil a grease.



Sand filter



Charcoal Filter

REFERENCE 10

FORM 1
GENERAL



ENVIRONMENTAL PROTECTION AGENCY
GENERAL INFORMATION
Consolidated Permits Program
(Read the "General Instructions" before starting.)

L. EPA I.D. NUMBER
FNCDO032164621

II. LABEL ITEMS
E. EPA I.D. NUMBER
III. FACILITY NAME
FACILITY MAILING ADDRESS
FACILITY LOCATION

NCD003216462
UNION CARBIDE CORP
PO BOX 849
ASHEBORO, NC 27203
800 ALBEMARLE RD
ASHEBORO, NC 27203

GENERAL INSTRUCTIONS
If a preprinted label has been provided, it in the designated space. Review the information carefully; if any of it is incorrect, through it and enter the correct data; if appropriate fill-in areas below. Also, if the preprinted data is absent (the area to left of the label space lists the information that should appear), please provide it in proper fill-in areas below. If the list complete and correct, you need not complete items I, II, V, and VI (except VI-B which must be completed regardless). Complete items if no label has been provided. Refer the instructions for detailed instructions which this data is collected.

III. POLLUTANT CHARACTERISTICS
INSTRUCTIONS: Complete through 5 to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to a question, you must submit the form and the supplemental form listed in the parentheses following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements in Section C of the instructions. See also Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK			SPECIFIC QUESTIONS	MARK		
	YES	NO	ATTACHED		YES	NO	ATTACHED
A. Is this facility (a publicly owned treatment works which requires its discharge to waters of the U.S. (FORM 2A) or...)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquaculture production facility which results in a discharge to waters of the U.S.? (FORM 2B)			X
C. In this facility, which currently results in discharge of water to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		*	D. Is there proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)			X
E. Does or will this facility treat, store, or dispose of hazardous waste? (FORM 3)	X		X*	F. Do you or will you inject at this facility industrial or municipal effluent below the lowest stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)			X
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, or which are used for enhanced recovery of oil, or natural gas, or which result from steam-assisted gravity drainage? (FORM 4B)		X		H. Do you or will you inject at this facility fluids for special processes such as: mining of sulfur by the Frasch process; solution mining of minerals; in situ combustion of fossil fuel; or recovery of geothermal energy? (FORM 4)			X
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may otherwise fall outside the attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)			X

II. NAME OF FACILITY

IV. FACILITY CONTACT
A. NAME & TITLE (last, first & title)
B. PHONE (area code & no.)
SENA DARIO A. G.C. ENGINEER 919 672 1012

V. FACILITY MAILING ADDRESS
A. STREET OR P.O. BOX
B. CITY OR TOWN
C. STATE
D. ZIP CODE
3 P.O. BOX 849
ASHEBORO NC 27203

VI. FACILITY LOCATION
A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER
B. COUNTY NAME
C. CITY OR TOWN
D. STATE
E. ZIP CODE
F. COUNTY CODE (if known)
5800 ALBEMARLE RD.
RANDOLPH
NC 27203 076

CONTINUED FROM THE FRONT

VII. RC CODED (4-digit in order of priority)

A. FIRST		B. SECOND	
692 (specify)	PRIMARY BATTERY, DRY	7 (specify)	
C. THIRD		D. FOURTH	
		7 (specify)	

VIII. OPERATOR INFORMATION

A. NAME	B. Is the name listed in Item VIII-A also the owner?
NION CARBIDE CORP.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify):	D. PHONE (area code & no.)
FEDERAL <input type="checkbox"/> PUBLIC (other than federal or state) <input type="checkbox"/> STATE <input type="checkbox"/> OTHER (specify) <input checked="" type="checkbox"/> P (specify)	919-672-1012

E. ADDRESS
O. BOX 849

F. COUNTY	G. STATE	H. ZIP CODE	I. INDIAN LAND
SHEBORO	NC	27205	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

IX. EXISTING ENVIRONMENTAL PERMITS

A. PERMIT TYPE (Discharge Surface Water)	B. DATES OF ALL Discharges from Proposed Sources
NA	NA
C. PERMIT TYPE (Underground Injection of Fluids)	D. DATES OF ALL Discharges from Proposed Sources
NA	NA
E. PERMIT TYPE (Other)	F. DATES OF ALL Discharges from Proposed Sources
NA	NA

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies on the map. See instructions for precise requirements.

X. NATURE OF BUSINESS (provide brief description)

MANUFACTURING PLANT FOR THE PRODUCTION OF
PRIMARY DRY CELL BATTERY.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
J. Kennedy Vice President - Production		

XIV. COMMENTS FOR OFFICIAL USE ONLY

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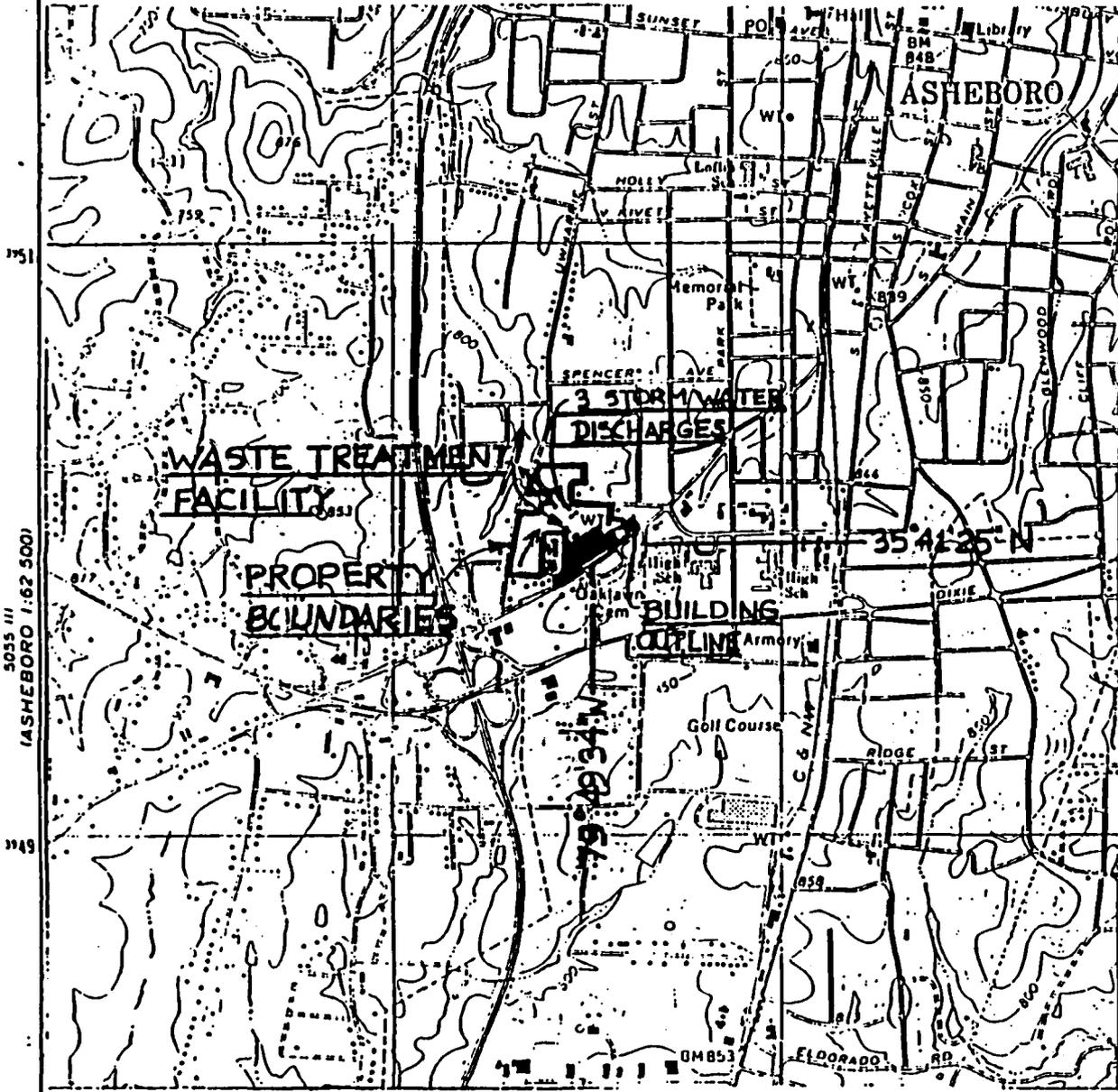
*EXPLANATION OF ITEM II C

Process wastewater from this facility is discharged to the Asheboro Sanitary Sewer System, a publicly owned treatment works. No permit application is enclosed for stormwater discharges. The stormwater discharges at this facility are currently being reviewed in light of the EPA's May 19, 1980 consolidated permit regulations. A decision on whether or not to submit an NPDES permit application in the future will depend upon the factual circumstances and the response of EPA Headquarters to the Chemical Manufacturers Association's letter to R. Sarah Compton on the subject of Stormwater Discharges, dated September 25, 1980.

*EXPLANATION OF ITEM II E

Current regulations appear to require treatment permit for included pre-treatment operations going to municipal treatment systems. However, the EPA may issue interpretative memos or regulatory changes which will negate this requirement for our type operations. If so, we will request a withdrawal of this part of the application. In the meantime, this application is being submitted to protect interim status.

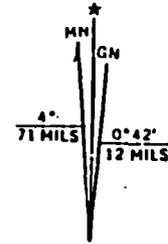
42' 30"



ASHEBORO QUADRANGLE
 NORTH CAROLINA—RANDOLPH CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 NE/4 ASHEBORO 15' QUADRANGLE

ASHEBORO, N. C.
 NE/4 ASHEBORO 15' QUADRANGLE
 N3537.5—W7945/7.5

1970



UTM GRID AND 1970 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

5055 III
 (ASHEBORO 1:62 500)

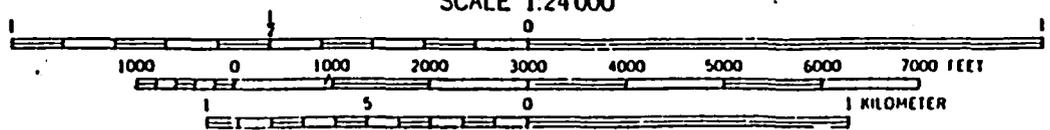
149

79° 50'

5055 III (ASHEBORO 1:62 500) 148

149 79°47'30"

NO DRINKING WATER
 WELLS WITHIN 1/4 MILE
 OF THIS FACILITY.



FORM I, ITEM VI MAP

EPA.I.D.No. NCD003216462

EPA
ENVIRONMENTAL PROTECTION AGENCY
HAZARDOUS WASTE PERMIT APPLICATION
Consolidated Permits Program
(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER
F N C D 0 0 3 2 1 6 4 6 2

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)

COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility EPA I.D. Number in Item I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

2. NEW FACILITY (Complete item below. FOR NEW FACILITY PROVIDE THE DATE OPERATION BEGAN OR EXPECTED TO BE)

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

FOR NEW FACILITY PROVIDE THE DATE OPERATION BEGAN OR EXPECTED TO BE (yr., mo., & day)

B. REVISED APPLICATION (place an "X" below and complete item I above)

1. FACILITY HAS INTERIM STATUS

2. FACILITY HAS A RCRA PERMIT

III. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PRO-CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PRO-CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			Treatment:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS	OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
Disposal:					
INJECTION WELL	D79	GALLONS OR LITERS			
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D81	ACRES OR HECTARES			
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS			
UNIT OF MEASURE	CODE	UNIT OF MEASURE	UNIT OF MEASURE	CODE	UNIT OF MEASURE
GALLONS	G	LITERS PER DAY	V		ACRE-FEET
LITERS	L	TONS PER HOUR	D		HECTARE-METER
CUBIC YARDS	Y	METRIC TONS PER HOUR	W		ACRES
CUBIC METERS	M	GALLONS PER HOUR	E		HECTARES
GALLONS PER DAY	C	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III: (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)				1. AMOUNT	2. UNIT OF MEASURE (enter code)	
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	T 0 1	200,000	U		7				
2					8				
3					9				
4					10				

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 REGION I
 NOV 13 10 57 AM '91

PROCESSES (continued)

FOR ADDITIONAL PROCESS CODES FOR DESCRIBING OTHER PROCESSES (code " "). FOR EACH PROCESS ENTERED HERE

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D, for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristic and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	KG
TONS	T	METRIC TONS	MT

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous wastes: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
- Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NUMBER	A. EPA HAZ. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

EPA I.D. NUMBER (enter from page 1)

FOR OFFICIAL USE ONLY

W N C D 0 0 3 2 1 6 4 6 2 1

W DUP 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

UNIT NO.	A. EPA HAZARD WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES																
				1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered list D(1))												
1	D009	3,993,400 *	P	T	0	1														
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
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20																				
21																				
22																				
23																				
24																				
25																				
26																				

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

E. Use THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. (enter from page 1)													
N	C	D	0	0	3	2	1	6	4	6	2	T/A	C
													6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)				LONGITUDE (degrees, minutes, & seconds)			
	35	41	25 N		79	49	34 W

VIII. FACILITY OWNER

A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER				2. PHONE NO. (area code & no.)			
UNION CARBIDE CORP.				919-672-101			
3. STREET OR P.O. BOX		4. CITY OR TOWN		5. ST.	6. ZIP CODE		
P.O. BOX 849		ASHEBORO		NC	27203		

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type) P. J. Kennedy	B. SIGNATURE 	C. DATE SIGNED
--	------------------	--------------------

X. OPERATOR CERTIFICATION

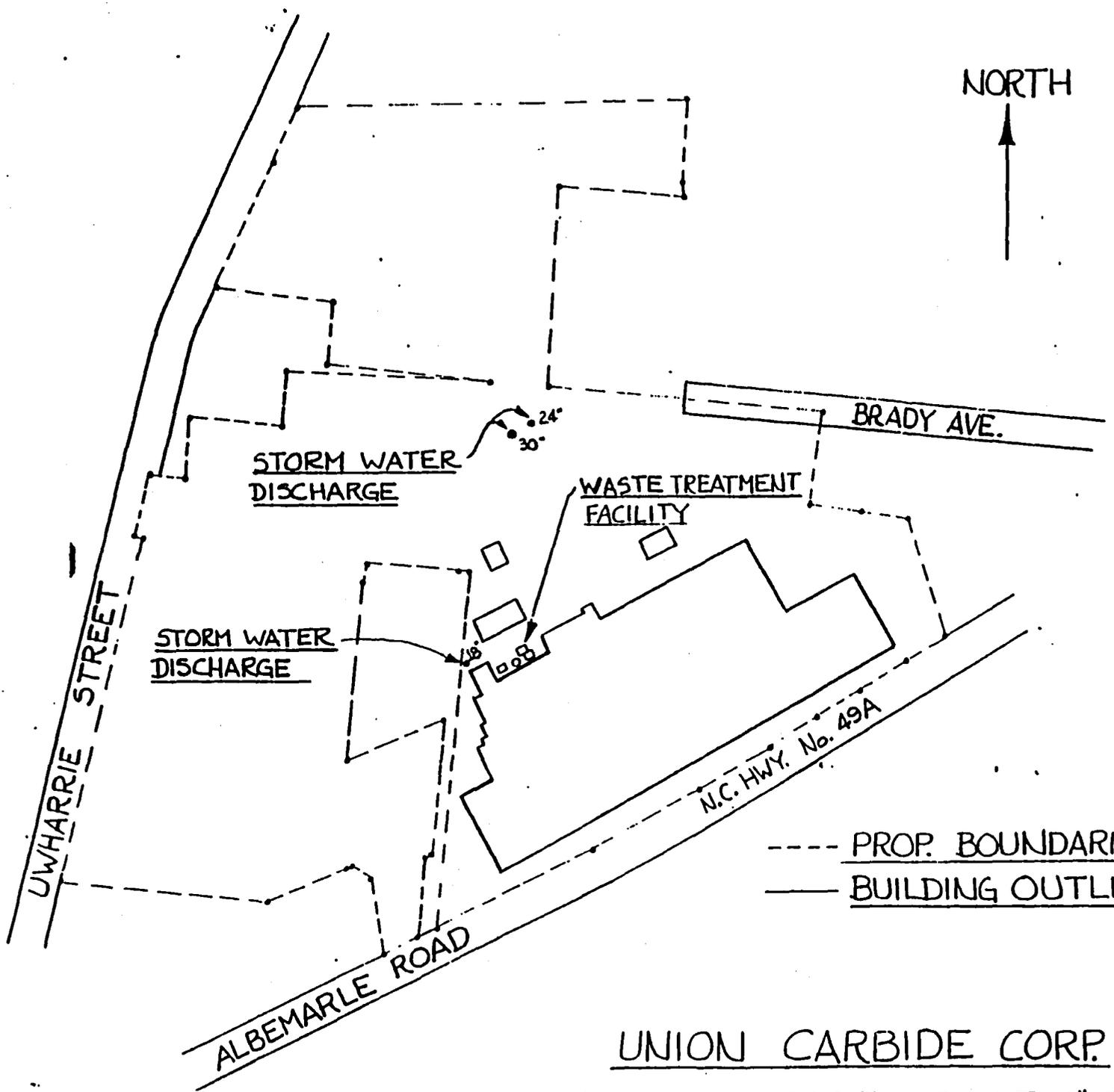
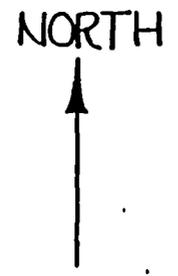
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
-------------------------	--------------	----------------

*NOTE IN REFERENCE TO PAGE 3 LINE 1

This represents maximum expected volume during interim period. This is a high dilute stream which goes to the municipal waste treatment system.

EPA I.D. No. NCD0003216462



--- PROP. BOUNDARIES
— BUILDING OUTLINE

UNION CARBIDE CORP.

ASHEBORO PLANT SCALE: 1"=200'

REFERENCE 11

POLLUTION INCIDENT REPORTING FORM

1. Incident # 3155
 2. Tabulate only _____

Division of Environmental Management
 GROUNDWATER SECTION

TYPE OF ACTION

A	1. Emergency response	③ Complaint investigation	5. Re-evaluation : # _____
	2. Compliance investigation	4. Routine inventory	⑥ Other : <u>NOTIFICATION OF VOLUNTARY</u> LUST
POTENTIAL HAZARDS: ① Toxic chemicals 2. Radioactivity 3. Air emissions 4. Explosives 5. Fire			

INCIDENT

B	Incident Name <u>UNION CARBIDE</u>		
	Address <u>OLD ALBEMARLE RD.</u>		City/Town <u>ASHEBORO</u>
	County <u>RANDOLPH</u>	Region <u>WINSTON-SALEM</u>	DEM Regional Contact <u>BRENDA SMITH</u>

PERSON REPORTING INCIDENT

C	Name <u>GEORGE BECK</u>	Date <u>1-8-86</u>	Time <u>12:15 PM</u>
	Company/Agency <u>UNION CARBIDE</u>	Telephone <u>919-672-1012</u>	
	Briefly Describe Incident <u>OLD SOUGAL WST EXCAVATED BY COMPANY AFTER DETECTING LEAK VIA TANK TEST; UPON EXCAVATION ODOR ASSOCIATED W/ SOLVENT WAS NOTICED; MONITOR WELL CONSTRUCTED BY COMPANY ~30'40' FROM EXCAVATION HAS SHOWN 265 PPB 1,1-DICHLOROETHANE.</u>		
REPORTED BY: ① Responsible party 2. Government agency 3. Private party			

RECOMMENDED ACTION

D	1. Investigation complete 3. Initiate/complete cleanup 5. Technical support 7. Enforcement action ② Continue investigation 4. Long-term remedial action 6. Drill crew 8. Monitoring plan							
	Comments <u>I INFORMED MR. BECK THAT I PLAN TO VISIT THE SITE ON FRI, JAN. 10 AND DISCUSS THE MATTER W/ HIM IN MORE DETAIL AT THAT TIME.</u>							
	LAB SAMPLES: ① Yes 2. No				Signature <u>W. DIXON</u>		Date <u>1-8-86</u>	

POLLUTION INCIDENT REPORTING FORM

Incident # _____

County: _____

POLLUTANTS INVOLVED

	MATERIALS INVOLVED	AMOUNT STORED	AMOUNT LOST	AMOUNT RECOVERED
E	1,1 - DICHLOROETHANE	500 gal.	~500 gal.	NONE
	_____	_____	_____	_____
	_____	_____	_____	_____

IMPACT ON SURFACE WATERS

F	WATERS EFFECTED 1. Yes 2. No No 3. Potentially	Distance to Stream (ft)	Amount in Water (gal)
	FISH KILL: 1. Yes 2. No	Name of Stream	Stream Class

RISK ASSESSMENT

Use these Codes:	High = 3	Moderate = 2	Low = 1	None = 0
G	Resource Threat	GROUNDWATER		Amount Infiltrating Land
	Vertical Migration of Contaminant	_____	500 gallons	
	Horizontal Migration of Contaminant	_____		
	Areal Extent of Contamination	_____	SURFACE WATER	AIR
	Probability of Violations	_____	_____	_____
	Remedial Action Priority	_____	_____	_____
	Potential Hazard of Substance	_____	_____	_____
	Threat to Drinking Water	_____	_____	_____
	Seriousness of Threat	_____	_____	_____
	Overall Regional Concern	_____	_____	_____
Please Circle the Appropriate Response(s):				
1. This incident poses additional threat to human health by: (1) inhalation (2) absorption (3) ingestion				
2. This incident poses additional threat to the environment by potential adverse effects on:				
(1) sensitive areas (2) wildlife (3) fish				

POTENTIAL SOURCE OF POLLUTION

H	SOURCE OF POTENTIAL POLLUTION	TYPE OF POLLUTANT	LOCATION	SETTING
	1. Intentional dump 2. Pit, pond, lagoon 3. Leak--underground 4. Spray irrigation 5. Land application 6. Animal feedlot 7. Source unknown 8. Septic tank	9. Sewer line 10. Stockpile 11. Landfill 12. Spill--surface 13. Well 14. Dredge Spoil 15. Nonpoint source	1. Pesticide/herbicide 2. Radioactive waste 3. Gasoline/diesel 4. Other petroleum prod. 5. Sewage/septage 6. Fertilizers 7. Sludge 8. Solid waste leachate 9. Metals 10. Other inorganics 11. Other organics	1. Facility 2. Railroad 3. Waterway 4. Pipeline 5. Dumpsite 6. Highway 7. Residence 8. Other
	MULTIPLE SOURCES AT SITE:		POLLUTION CONFIRMED	
	1. Yes 2. No		1. Yes 2. No	

Incident # _____
 County: _____

POLLUTION INCIDENT REPORTING FORM

RESPONSIBLE PARTY

Responsible Party/Names UNION CARBIDE			Telephone 919-672-1012	
Company SAME		Street Address OLD ALBEMARLE RD.		
City ASTEBORO		County DANFORTH	State NC	Zip Code
REASON FOR INCIDENT 1. Transportation Accident 2. Mechanical failure 3. Facility design 4. Inventory only 5. Human error 6. Vandalism 7. Unknown	SOURCE IN USE 0. N/A 1. Yes 2. No	PERMIT TYPE 0. N/A	OWNERSHIP 0. N/A	OPERATION TYPE 0. N/A
	SOURCE PERMITTED 1. Yes 2. No	1. Nondischarge	1. Municipal	1. Public Service
	PERMIT NUMBER	2. Oil terminal	2. Military	2. Agricultural
	SOURCE ON ERRIS LIST 1. Yes 2. No	3. Landfill	3. Unknown	3. Other Source
	ERRIS NUMBER	4. Mining	4. Private	4. Educational
		5. NPDES	5. Federal	5. Industrial
	6. RCRA	6. County	6. Commercial	
	7. Air	7. State	7. Mining	

ACTIONS TAKEN

Containment, Cleanup, etc.

TANKS TESTED DURING ROUTINE INSPECTION, FOUND TO BE LEAKING RAPIDLY; TANK WAS EXCAVATED AND MONITOR WELL INSTALLED ~30-40' DOWN GRADIENT; RECENT SAMPLE FROM MONITOR WELL SHOWS PRESENCE OF 1,1-DICHLOROETHANE.

(SEE NOTE X)
 (SUBSEQUENT FIELD INVESTIGATION REVEALED THAT MONITORING WELL IS PROBABLY ~50' FROM EXCAVATIONS.)

SOIL BORINGS TAKEN AT SITE (SEE MAP FOR LOCATIONS) REVEALED ODOR ASSOCIATED W/ SOLVENTS. IN ADDITION, SOIL SAMPLE EXTRACTED FROM BOTTOM OF EXCAVATION SHOWED 4 ppm OF 1,1 DICHLOROETHANE.

* SITE VISIT CONDUCTED BY W.D. DIXON & W.C. JETER ON JAN. 10, 1986

Nearest Populated Buildings--Type and Distance
MANUFACTURING PLANT/OFFICES; 5'-10'

Precipitation/Weather Data

POLLUTION INCIDENT REPORTING FORM

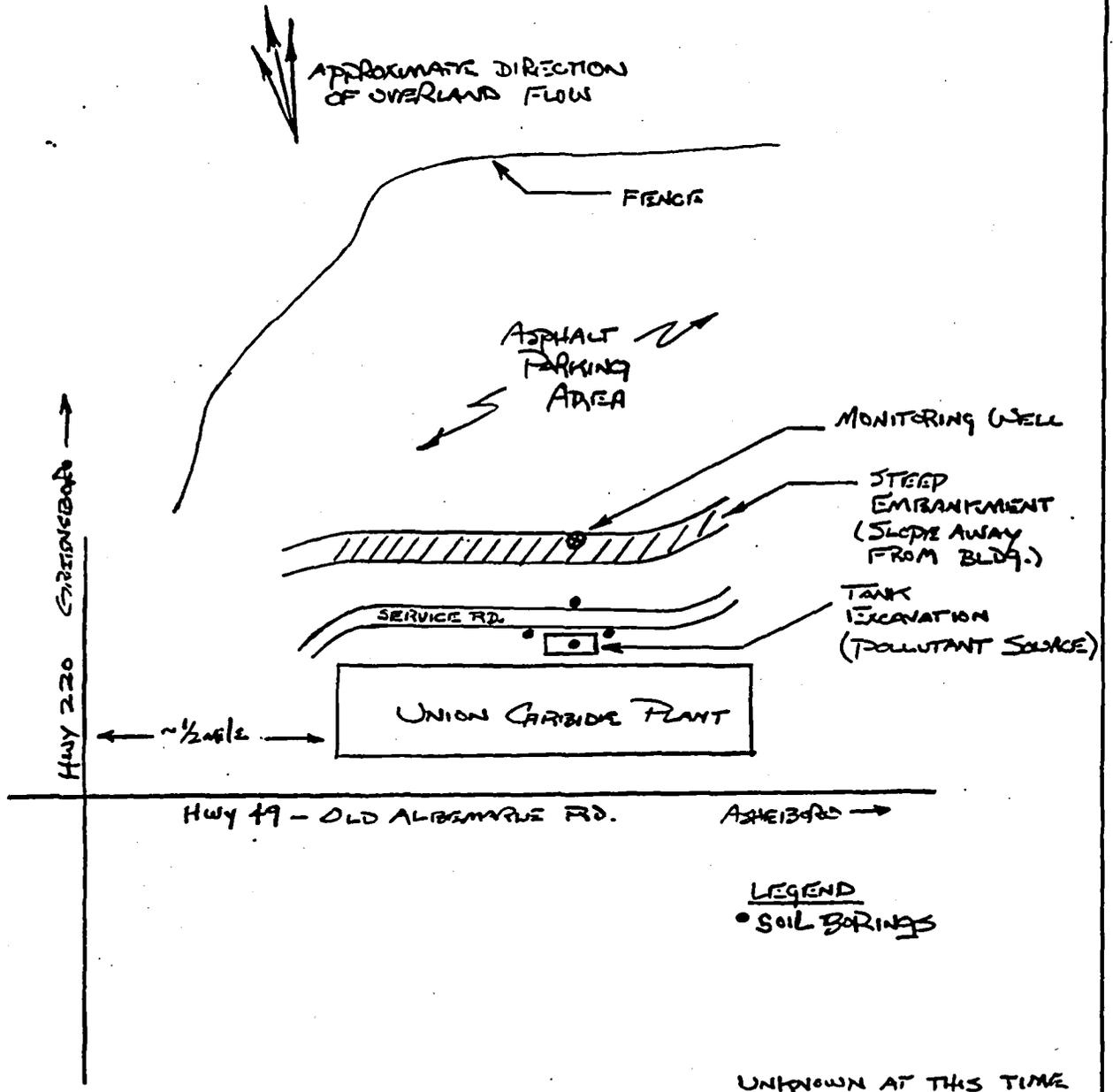
Incident # _____
County _____

LOCATION OF INCIDENT

Street Address, Road		City/Town ASHEBORO	County RANDOLPH
Date Incident Occurred	Time Incident Occurred	7 1/2 Quad Name ASHEBORO	Lat. : Deg: Min: Sec:
			Long. : Deg: Min: Sec:

Draw Sketch of Area

NOT TO SCALE



ATTACH PHOTOCOPY OF MAP SHOWING: 1. Pollutant Source 2. Threatened Water Supplies 3. Direction of Overland Flow

Incident # _____
County: _____

POLLUTION INCIDENT REPORTING FORM

EMERGENCY INCIDENT RESPONSIBILITIES

RESPONSIBILITY: _____ Local _____ State _____ Federal _____ Responsible party

ON-SCENE COORDINATOR: _____ name _____ phone number _____

_____ agency/EOC location _____ EOC phone _____

_____ EOC contacts _____

Assumed, date: _____ time: _____ Relinquished, date: _____ time: _____

On-site representatives: _____

TECHNICAL COORDINATOR: _____ name _____ phone number _____

_____ agency/EOC location _____ EOC phone _____

_____ EOC contacts _____

Assumed, date: _____ time: _____ Relinquished, date: _____ time: _____

On-site representatives: _____

RESOURCE TRUSTEE: _____ name _____ phone number _____

_____ agency/EOC location _____ EOC phone _____

_____ EOC contacts _____

Assumed, date: _____ time: _____ Relinquished, date: _____ time: _____

On-site representatives: _____

PIO: _____ name _____ agency _____ phone number _____

Assumed, date: _____ time: _____ Relinquished, date: _____ time: _____

NOTIFICATIONS

* 24 Hour Telephone Number

Date	Agency	Telephone	Time	Contact
_____	Spill Response Center-DEM	(919) 733-5291	_____	_____
_____	Water Supply-DHR	(919) 733-2321	_____	_____
_____	Solid/Hazardous Waste-DHR	(919) 733-2178	_____	_____
_____	Regional Office _____	_____	_____	_____
_____	Emergency Mngt.-CC&PS	(919) 733-3867	_____	_____
_____	Pesticides-DOA	(919) 733-3556	_____	_____
_____	Inland Fisheries-WRC	(919) 733-3633	_____	_____
_____	Wildlife Resources Commission	(800) 662-7137 *	_____	_____
_____	Marine Fisheries	(919) 726-7021	_____	_____
_____	Radiation Protection-DHR	(919) 733-4283	_____	_____
_____	EPA-Atlanta	(404) 881-4062 *	_____	_____
_____	Coast Guard-Wilmington	(919) 343-4567	_____	_____
_____	Coast Guard-Hampton Roads	(804) 441-3307	_____	_____
_____	National Response Center	(800) 424-8802 *	_____	_____
_____	(your supervisor) _____	_____	_____	_____
_____	(PIO) _____	_____	_____	_____
_____	(shipper) _____	_____	_____	_____
_____	(carrier) _____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	CHEMTREC (Chemical Spills Only)	(800) 424-9300 *	_____	_____
_____	N.C. Poison Center	(919) 684-8111 *	_____	_____
_____	Explosives problems-SBI	(919) 779-1400 *	_____	_____
_____	State Warning Point-SHP (emergencies only)	(919) 733-3861 * (800) 662-7956 *	_____	_____
_____	EPA-PCB problems	(919) 541-4573	_____	_____

REFERENCE 12



UNION
CARBIDE

UNION CARBIDE CORPORATION P. O. BOX 849, ASHEBORO, N.C. 27203
BATTERY PRODUCTS DIVISION

January 3, 1986

N. C. State Dept. of Natural Resources and Community Development
Division of Environmental Management
Emergency Response Section
512 N. Salisbury Street
Raleigh, North Carolina 27611

ATTENTION: Mr. W. Douglass Dixon

Gentlemen:

SUBJECT: Environmental Incident Report

As a part of our environmental program, in late 1985, all underground storage tanks located on our property were pressure tested for integrity. One empty 500-gallon gasoline tank (decommissioned approximately 8 years ago and located under asphalt pavement at the rear of our plant) did not pass the pressure test. The tank was excavated and found to be rusted. An unusual smell was noticed in the soil around this tank.

Upon further investigation, we learned that an unknown quantity of some type solvent had been placed in the tank approximately seven years ago. A soil sample taken from under the tank showed the presence of 1,1 - Dichloroethane, 1,2 - Dichloroethane, Chloroform, 1,1,1 - Trichloroethane, Benzene, and Toluene; all at levels less than 4 parts per million. One monitoring well was installed and a sample of the ground water showed 265 micrograms/liter of 1,1 - Dichloroethane. The other above stated pollutants were below the detectable level of 10 micrograms/liter.

Per the U. S. EPA Environmental Assessment Office Summary of Current Oral Acceptable Daily Intakes dated February 1984, the drinking water limit of 1,1 - Dichloroethane is 4.06 milligrams/liter or 4,060 micrograms/liter.

The level of contamination is low; however, our plans are to monitor the ground water on a periodic basis. No current or future health or environmental problems are indicated.

If you have further questions, please call at (919) 672-1012.

Very truly yours,

UNION CARBIDE CORPORATION



G. B. McClanahan
Plant Manager - Asheboro Plant I

RECEIVED

JAN 10 1986

GBM:jh

GROUND WATER SECTION
RALEIGH, N. C.

REFERENCE 13



State of North Carolina
 Department of Natural Resources and Community Development
 Winston-Salem Regional Office

James G. Martin, Governor

S. Thomas Rhodes, Secretary

DIVISION OF ENVIRONMENTAL MANAGEMENT
 GROUNDWATER SECTION

March 5, 1986

Mr. Dario A. Sena
 Union Carbide Corporation
 Battery Products Division
 300 Albemarle Road
 Asheville, NC 27203

RECEIVED

MAR 17 1986

Dear Mr. Sena:

SUBJECT: MONITOR WELL CONSTRUCTION
 PERMIT NO. 75-0112-0030
 RANDOLPH COUNTY

GROUND WATER SECTION
 TARRANT, AL. C.

In accordance with your application received February 26, 1986, we are forwarding herewith Monitor Well Construction Permit No. for the construction of a monitor well system in the Carolina Slate Belt Hydrogeologic Unit.

This Permit will be effective from the date of its issuance and shall be subject to the conditions and limitations as specified therein.

Sincerely,

Brenda J. Smith

Brenda J. Smith
 Hydrogeological Regional
 Supervisor

BJS/dh
 Enclosure
 cc: Lee L. Laymon
 Dane A. Horna
 Groundwater Files

NORTH CAROLINA

ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT

PERMIT FOR THE CONSTRUCTION OF A MONITOR WELL OR WELL SYSTEM

In accordance with the provisions of Article 7, Chapter 87, North Carolina General Statutes, and other applicable Laws, Rules, and Regulations,

PERMISSION IS HEREBY GRANTED TO

UNION CARBIDE CORPORATION, BATTERY PRODUCTS DIVISION

FOR THE CONSTRUCTION OF A MONITOR/WELL SYSTEM in the Carolina Slate Belt Hydrogeologic unit located at Union Carbide Corporation, 800 Albemarle Road, Asheboro, North Carolina in Randolph County in accordance with the application dated February 26, 1986 and in conformity with the specifications and supporting data, all of which are filed with the Department of Natural Resources and Community Development and are considered a part of this Permit.

This Permit is for well construction only, and does not waive any provisions or requirements or any other applicable laws or regulations.

Construction of a well under this Permit shall be in compliance with the North Carolina Well Construction Regulations and Standards, and any other laws and regulations pertaining to well construction.

This Permit will be effective from the date of its issuance until September 4, 1986 and shall be subject to other specified conditions, limitations or exceptions as follows:

1. A permanent identification plate with the date of construction, depth of well, screen interval, depth of grout, drilling contractor, and his registration number shall be attached to the well head on the outer protective steel casing.

Permit No. 75-0112-WM-0030

Page two

2. The well construction completion form and all water quality data are to be submitted to the central office of the Groundwater Section in Raleigh, North Carolina.
3. The well shall be afforded a means of protection against vandalism, damage, or unauthorized use.
4. When any monitor well is no longer useful for its intended purpose, it shall be abandoned in compliance with North Carolina Administrative Code 15.2C.0113 and a well abandonment form sent to the Groundwater Section.
5. The monitor well shall be constructed in accordance with the Groundwater Section's recommended construction details as outlined in attachment #1.

Permit issued this the 4th of March, 1986

FOR THE NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Larry D. Coble
Larry D. Coble, Regional Supervisor
Division of Environmental Management

By Authority of the Environmental Management
Commission

Permit No. 75-0112-WM-0030

REFERENCE 14

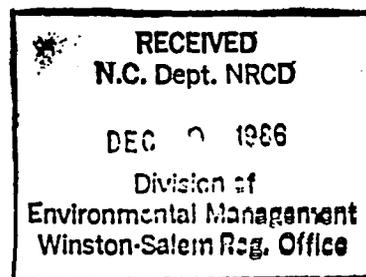

SOIL & MATERIAL ENGINEERS, INC. ENGINEERING-TESTING-INSPECTION

 135-C Montlieu Avenue, Box 18169, Greensboro, NC 27419, Phone (919) 855-7547
 November 18, 1986

Eveready Battery Company
 P.O. Box 849
 Asheboro, North Carolina 27203

Attention: Mr. Buster Hill

Reference: Report of Supplementary Studies
 Contaminated Migration
 Eveready Battery Company
 Asheboro, North Carolina
 S&ME Project Number 1381-86-008A



Gentlemen:

This letter summarizes some supplementary studies performed in response to requests from NCDNRCD for additional information and groundwater monitoring capability at the above site. Specifically, this supplementary work included the following elements:

- 1.) Installation of a groundwater monitoring well (W-4) directly down gradient of the former tank location.
- 2.) Installation of a standpipe in a test boring hole (B-106) to permit measurement of the groundwater level at a location to the west of the former tank.
- 3.) The drilling of one additional test boring (B-107) at a location approximately 45 feet down gradient of the former tank in order to assess the presence of significant soil contamination at this location.
- 4.) Laboratory testing for benzene of a single groundwater sample from well W-4.
- 5.) Screening for benzene and chloroform in selected soil samples from W-4, B-106 and B-107.

RESULTS

Well W-4 and borings B-106 and B-107 were drilled during the period of October 10-11, 1986. The locations of the well and the two borings are shown on the enclosed Drawing Number 008B-1. Well W-4 was drilled to a total depth of 27.7 feet below the ground surface and borings B-106 and B-107 extended to depths of 18.5 and 20.0 feet, respectively.

Eveready Battery Company
November 18, 1986
Page 2

Groundwater level measurements in all site wells and open borings were obtained on October 27, 1986. The results of these measurements were then utilized to sketch the groundwater contours presented on Drawing Number 008B-1. A comparison of this drawing with the earlier version based on measurements obtained June 24, 1986 indicates a slight drop in the groundwater levels overall but essentially the same pattern of groundwater flow.

A groundwater sample was obtained from well W-4 on October 28, 1986 and analyzed for benzene. This test found no detectable benzene utilizing a detection limit of 1.0 ug/L (ppb).

Each soil sample was examined for chemical odor. No unusual odors were detected except for a slight to moderate chemical odor in the 9-foot sample from boring B-107. In addition this sample and selected other soil samples were examined with benzene and chloroform Draeger tubes which utilized detection limits of 0.5 ppm and 2.0 ppm, respectively. The results of the Draeger tube tests are presented on the attached data table. We would consider only the detectable quantities of benzene in boring B-107 to be significant. The detection of benzene in well W-4 at 6 feet is considered suspect in that this result could not be confirmed by subsequent Draeger tube testing in the laboratory.

Overall we believe that these data are consistent with that obtained earlier for this site. If you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,

SOIL & MATERIAL ENGINEERS, INC.



Dane A. Horna, P.E.
Branch Manager

DAH/vl

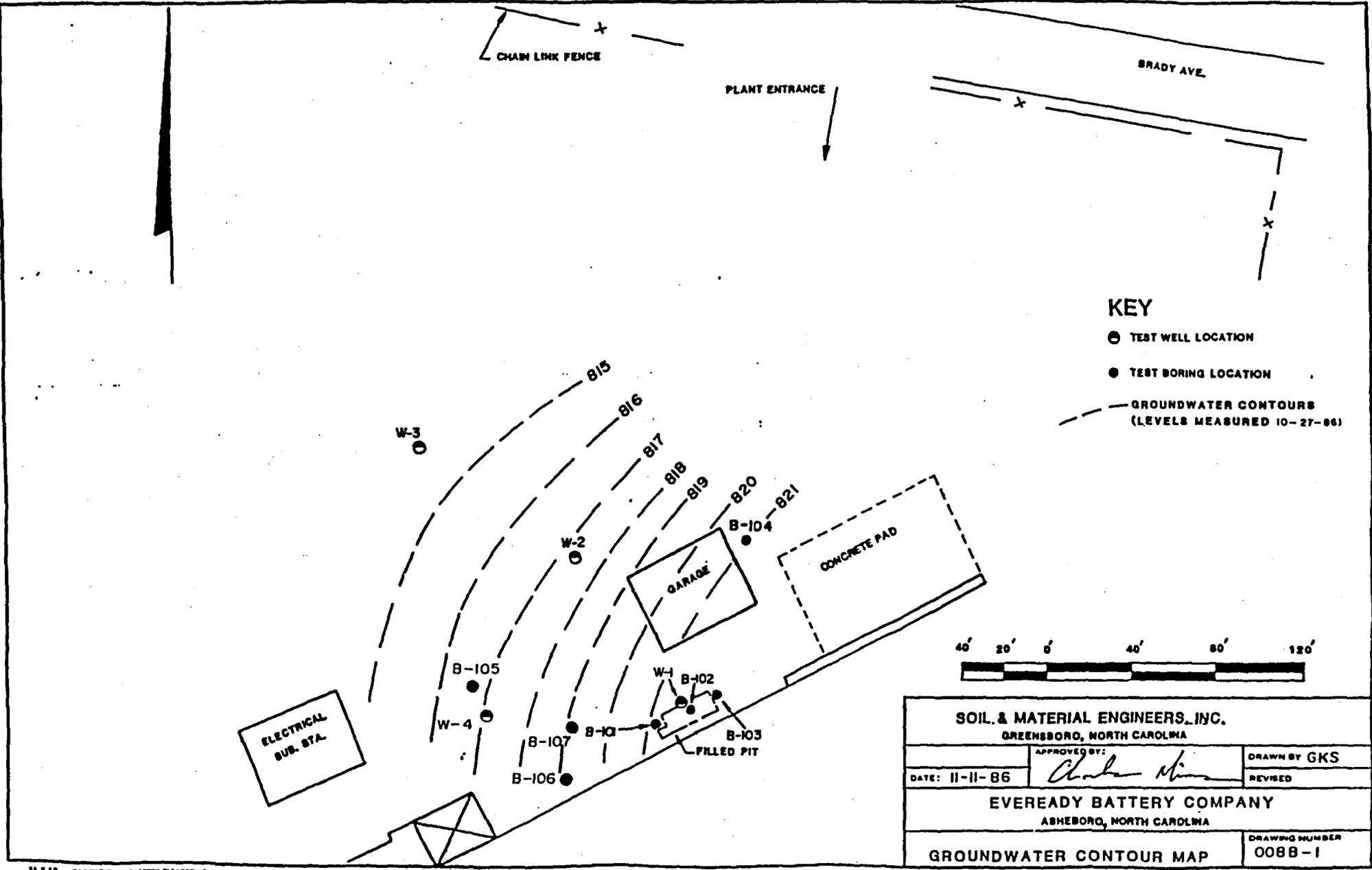
Enclosure(s)



Draeger Tube Results

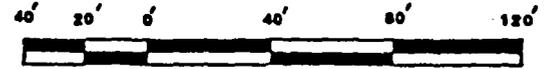
<u>Soil Sample I.D.</u>	<u>Benzene (ppm)</u>	<u>Chloroform (ppm)</u>
W-4 @ 6 ft.	0.6 ^a	-
W-4 @ 13 ft.	< 0.5	< 2
W-4 @ 16 ft.	< 0.5	-
B-106 @ 11 ft.	< 0.5	-
B-106 @ 16 ft.	< 0.5	-
B-107 @ 9 ft.	1.0 ^b	< 2
B-107 @ 13 ft.	< 0.5	-
B-107 @ 17 ft.	< 0.5	-
B-107 @ 19 ft.	0.8	< 2

- a. Retested in the laboratory two days after sampling with a finding of <0.5 ppm.
- b. Retested in the laboratory one day after sampling with a finding of 0.8 ppm.



KEY

- TEST WELL LOCATION
- TEST BORING LOCATION
- - - GROUNDWATER CONTOURS (LEVELS MEASURED 10-27-86)



SOIL & MATERIAL ENGINEERS, INC. GREENSBORO, NORTH CAROLINA	
APPROVED BY: <i>Charles M...</i>	DRAWN BY GKS
DATE: 11-11-86	REVISED
EVEREADY BATTERY COMPANY ASHEBORO, NORTH CAROLINA	
GROUNDWATER CONTOUR MAP	DRAWING NUMBER 0088-1

REFERENCE 15



Randolph

Reference 15

State of North Carolina
Department of Natural Resources and Community Development
Winston-Salem Regional Office

James G. Martin, Governor

S. Thomas Rhodes, Secretary

DIVISION OF ENVIRONMENTAL MANAGEMENT
March 16, 1987

Mr. T. Wayne Hodges
Quality Control Manager
Eveready Battery Company, Inc.
P.O. Box 849
800 Albemarle Road
Asheboro, N.C. 27204-0849

Subject: Illegal Discharge,
Eveready Battery
Company, Randolph
County

Dear Mr. Hodges:

This letter is written in reference to your conversation of February 3, 1987 with Sherri Vaden and Mike Mickey at the fuel oil spill at Eveready.

It is our understanding that runoff water from the loading and storage areas of the plant is collected in the diked area used for containment of spills. The water is then released by a valve and flows into the stream at the back of the property.

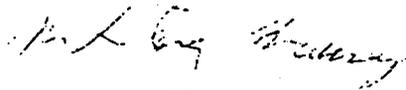
The non-permitted discharge of any type of wastewater to the waters of the State is illegal as per North Carolina General Statute 143-215.1. This discharge must be ceased and brought into compliance with regulations by tying into the City of Asheboro sewer system. It should also be noted that there have been several complaints from residents in the neighborhood directly behind Eveready concerning a black material in the stream after rainfall events.

You are requested to respond in writing to this Office by April 13, 1987 stating what actions have been taken to bring this discharge into compliance.

Mr. T. Wayne Hodges
Page Two
March 16, 1987

If you have any questions, please contact Ms. Vaden or me.

Sincerely,


M. Steven Mauney
Water Quality Supervisor

MSM/SAV/cm

cc: Central Files
Randolph County Health Dept.
WSRO

REFERENCE 16

APR 9 1987
Division of
Environmental Management
Winston-Salem Reg. Office

EVEREADY BATTERY COMPANY, INC.

P.O. BOX 849
ASHEBORO, NC 27204-0849

April 8, 1987

TO: Mr. M. Steven Mauney
Water Quality Supervisor
Department of Natural Resources
and Community Development
8025 North Point Boulevard, Suite 100
Winston-Salem, N. C. 27106-3295

SUBJECT: Discharge of Diked Runoff Water - EVEREADY BATTERY CO.
Asheboro Plant I

Dear Mr. Mauney:

Per your request in the letter dated March 16, 1987 on discharge of diked runoff water, we have met with the Superintendent of Plants for the City of Asheboro, Mr. Melvin L. Allen and discussed authorization to discharge our diked stormwater to the city sewer system. As stated in the attached letter, Mr. Allen has given us a provision in our Industrial Waste Discharge Permit to discharge the water. Our plans are to complete the connection of the piping from the diked area to the sewer discharge line by May 15, 1987. At that time, we will begin immediately to discharge the diked water into the city sewer. An action plan showing the details of the project is attached.

If you have any questions, please call Mr. Dario Sena, Environmental Coordinator, or me.

Sincerely,



T. Wayne Hodges

TWH:ps

cc: G. W. Beck/G. B. McClanahan
D. A. Sena
A. M. Nash
C. R. Garner
P. R. Brown



REFERENCE 17



1/11/88

State of North Carolina
Department of Natural Resources and Community Development
Winston-Salem Regional Office

James G. Martin, Governor

S. Thomas Rhodes, Secretary

DIVISION OF ENVIRONMENTAL MANAGEMENT

April 10, 1987

Mr. T. Wayne Hodges, Quality Control Manager
Eveready Battery Company, Inc.
P.O. Box 849
Asheboro, N.C. 27204-0849

Subject: Discharge of Diked Runoff Water
Eveready Battery Company
Asheboro Plant I
Randolph County

Dear Mr. Hodges:

This letter is to acknowledge your correspondence dated April 8, 1987 as received.

We are pleased to hear that Eveready has been authorized to discharge the diked stormwater runoff to the City of Asheboro sewer system.

Your timely notification and schedule for tie in of this discharge is greatly appreciated.

If you have any questions, please call Sherri Vaden or me.

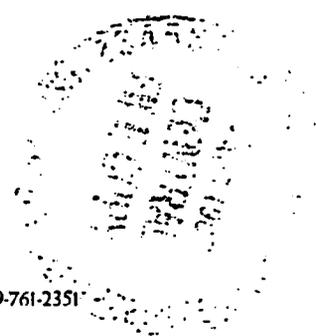
Sincerely,

M. Steven Mauney
Water Quality Supervisor

MSM/SAV/cm

cc: WSRO

Central Files ✓



REFERENCE 18

EVEREADY BATTERY COMPANY, INC.
PLANT II

Post Office Box 849
Asheboro, North Carolina 27204-0849
Telephone: 919-672-0363

RECE
N.C. Dept. NRCD
FEB 6 1987
Division of Environmental Management Winston-Salem Reg. Office

February 3, 1987

Mr. Steve Mooney
State of North Carolina Department of
Natural Resources and Community Development
80063 Silas Creek Parkway
Winston-Salem, NC 27104

Reference: Permit No. NC261234136
Authorization to Construct
Union Carbide Corporation
Battery Products Division
Now:
Eveready Battery Co., Inc.

Dear Mr. Mooney:

Confirming our telephone conversation of January 27, 1987, we have started mechanical prove-in of our waste water treatment system and plan to begin production prove-in late-February.

We would like to invite you to make an on-site inspection of our facility at your earliest convenience. If you do not plan to visit, please send me a note to that effect or give me a call.

Very truly yours,



W. E. Banker

WEB:jk

cc: Messrs. William Brown - Randolph County Health Department
Melvin Allen - Randolph County Health Department
J. A. Casper - Eveready Battery Co., Inc. - Asheboro
G. R. Sondecker - Eveready Battery Co., Inc. - Asheboro
A. M. Nash - Eveready Battery Co., Inc. - Rocky River