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Site Name (Subject):	SOUTHERN DESK
Site ID (Document ID):	NCD986166353
Document Name (DocType):	Correspondence (C)
Report Segment:	
Description:	General Correspondence, 1988 - 1992
Date of Document:	4/10/1992
Date Received:	
Box: *Enter SF and # with no spaces*	SF10,616
Access Level:	PUBLIC
Division:	WASTE MANAGEMENT
Section:	SUPERFUND
Program (Document Group):	SERB (SERB)
Document Category:	FACILITY

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IV
345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

RECEIVED
APR 1 0 1992
SUPERFUND SECTION

4WD-WPB

APR 1 0 1992

Ms. Pat DeRosa
CERCLA Branch
North Carolina Department of Environment,
Health and Natural Resources
P.O. Box 27687
Raleigh, North Carolina 27611-7687

Dear Ms. DeRosa:

The following reports, prepared by North Carolina PA/SI personnel, have been reviewed and accepted by the Region IV Site Assessment Section:

Site Name	Disposition
* Ashe Pattern Shop NCD986175636 SSI Report	SIP-High
* Lee's Motor Works NCD986175628 SSI Report	SIP-High
* Southern Desk Drums NCD986166353 SSI Report	NFRAP
* Stroh/Chittey Farm NCD986176444 PA Report	SI-High
* Duke Power/Greensboro Coal Gas NCD981861743 SSI Report	SIP-High
* Battery Tech(Duracell Lexington) NCD000648402 ESI Phase I	ESI Phase II

The following reports which were prepared by EPA Region IV's former FIT4 contractor, Halliburton NUS Corp., have been reviewed and accepted by this office:

* Buncombe County Landfill NCD980558001 SI Report	SIP-High
* Waxhaw Storage Tanks NCD981030836 SI Report	SIP-Low

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* Neuville Sock Property — SIP-Low
  NCD981023732
  SI Report

* Century Furniture Company — SIP-Low
  NCD003221868
  SI Report

I have enclosed a copy of those reports which were prepared by Halliburton NUS Corp. for your files. If you should have any questions, please feel free to contact me at (404) 347-5065.

Sincerely yours,

Craig A. Benedikt

Craig A. Benedikt
EPA NC CERCLA Project Officer

Enclosure

Southern Desk File - 1 for Immed Removal
1 for Federal File

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

4WD-WPB/CM

November 1, 1991

Dear Sir/Madam:

Enclosed you will find a copy of the proposed settlement agreement you referenced in your request as indicated in the Federal Register. If we can be or any further assistance please feel free to contact us.

Sincerely yours,

Carolyn McCall

Carolyn McCall
Investigation Support Assistant
Investigation Support Section

Enclosure

RECEIVED
NOV 4 1991
SUPERFUND SECTION

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

IN THE MATTER OF: SOUTHERN DESK CABINET HICKORY, NORTH CAROLINA Ms. Marlin Grost General Secretary GtE Products Corporation Stamford, Connecticut 06904 RESPONDENT	Proceeding Under Section 122(h)(1) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. Section 9622(h)(1), as amended by the Superfund Amendments and Reauthorization Act of 1986, Pub. L. No. 99-499

COST RECOVERY AGREEMENT

This Agreement is made and entered into by the U.S. Environmental Protection Agency ("EPA"), and GTE Products Corporation, ("Settling Party"). The purpose of this Agreement is for EPA to recover response costs incurred at or in connection with the Southern Desk Cabinet Site ("Site") Hickory, North Carolina and to resolve the liability of the Settling Party for such response costs. EPA is authorized to enter into this Agreement pursuant to the authority vested in the Administrator of the EPA by Section 122(h)(1) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 ("CERCLA"), as amended by the Superfund Amendments and Reauthorization Act of 1986 ("SARA"), Pub. L. No. 99-499, which authority has been delegated to the Regional Administrators of the EPA by EPA Delegation No. 14-14-D (February 26, 1987) and redelegated to the Chief of the Waste Programs Branch by EPA Delegation No. 14-14-D (March 1990).

This Agreement shall be binding upon EPA and shall be binding upon the Settling Party, its directors, officers, employees, agents, successors and assigns. Each signatory to this Agreement represents that he or she is fully authorized to enter into the terms and conditions of this Agreement and to legally bind the party represented by him or her. The Settling Party agrees to undertake all actions required by this Agreement. The Settling Party consents to and will not contest EPA's authority to enter into this Agreement or to implement or enforce its terms.

WHEREAS, EPA alleges that hazardous substances, pollutants, and/or contaminants as defined in Section 101(14) of CERCLA, 42 U.S.C. Section 9601(14), have been or are threatened to be released into the environment from the Site;

WHEREAS, EPA alleges that such releases or threatened releases required response action including the cleanup and removal of all contaminated materials to be undertaken at the site, including arranging for the transportation, disposal and treatment of hazardous substances pursuant, to Section 104 of CERCLA, 42 U.S.C. Section 9604;

WHEREAS, EPA alleges that in overseeing this response action, response costs have been incurred at or in connection with the Site totalling $9,066.72 as of September 30, 1989.

WHEREAS, EPA alleges that the Settling Party is a responsible party pursuant to Section 107(a) of CERCLA, 42 U.S.C. Section 9607(a), and is jointly and severally liable for response costs incurred and to be incurred at or in connection with the Site;

WHEREAS, the Settling Party does not admit or deny any of EPA's allegations or legal conclusions; and

WHEREAS, EPA and the Settling Party desire to settle certain claims arising from the Settling Party's alleged involvement with the Site without litigation and without the admission or adjudication of any issue of fact or law;

NOW, THEREFORE, EPA and the Settling Party, in consideration of the promises and covenants herein, and intending to be legally bound hereby, agree as follows:

1. The Settling Party has sent to EPA payment of the total amount of $9,066.72 for deposit in the Hazardous Substances Superfund.

2. In consideration of the payment referenced in Paragraph 1, and subject to Paragraph 5 of this Agreement, EPA covenants not to sue or to take any other civil or administrative action against the Settling Party for "Covered Matters". "Covered Matters" shall include any and all Civil Liability under Section 107(a) of CERCLA, 42 U.S.C. Section 9607(a), for reimbursement of response costs incurred at or in connection with the Site as of the effective date of this agreement.

3. In addition to any other remedies or sanctions available to EPA, any Settling Party who fails or refuses to comply with any term or condition of this Agreement shall be subject to enforcement action pursuant to Section 122(h)(3) of CERCLA.

4. Nothing in this Agreement is intended to be nor shall it be construed as a release or covenant not to sue for any claim or cause of action, administrative or judicial, civil or criminal, past or future, in law or in equity, which EPA may have against the Settling Party for any matters not expressly included in "Covered Matters", including, without limitation, any liability for damages to natural resources.

5. Nothing in this Agreement is intended to be nor shall it be construed as a release or covenant not to sue for any claim or cause of action, administrative or judicial, civil or criminal, past or future, in law or in equity, which EPA may have against any person, firm, corporation or other entity not a signatory to this Agreement.

6. In consideration of EPA's covenant not to sue, contained in Paragraph 2 of this Agreement, the Settling Party agrees not to assert any claims or causes of action against the United States or the Hazardous Substance Superfund arising out of response activities undertaken at the Site, or to seek any other costs, damages, or attorney's fees from the United States, its agencies, employees or contractors arising out of response activities undertaken at the Site.

7. Subject to Paragraph 5 of this Agreement, EPA agrees that by entering into and carrying out the terms of this Agreement, the Settling Party will have resolved its liability to the United States for "Covered Matters" pursuant to Section 113(f)(2) of CERCLA and shall not be liable for claims for "Covered Matters."

8. This Agreement shall be subject to a thirty-day public comment period pursuant to Section 122(i) of CERCLA. In accordance with Section 122(i)(3) of CERCLA, EPA may withdraw its consent to this Agreement if comments received disclose facts or considerations which indicate that this Agreement is inappropriate, improper or inadequate.

9. The Regional Administrator of EPA, Region IV, has determined that the total response costs incurred by EPA to date or in connection with the Site do not exceed $500,000.00 excluding interest, and that, based upon information currently available to EPA, total EPA response costs at or in connection with the Site are not anticipated to exceed $500,000.00 excluding interest, in the future.

10. The effective date of this Agreement shall be the date upon which EPA issues written notice to the Settling Parties that the public comment period pursuant to Paragraph 10 of this Agreement has closed and that comments received, if any, do not require modification of or EPA withdrawal from this Agreement.

IT IS SO AGREED:

BY: _____ 8/13/91

H. Kirk Lucius, Chief
Waste Programs Branch
Waste Management Division
U.S. EPA - Region IV

DATE

BY: _____ 7-15-91

Bruce E. Haddad, VP and Controller
GTE Products Corporation

DATE

Date: September 30, 1991 Mary Ganley

To: File

From: Mary Ganley

Re: Southern Desk NCD 986166353
Surface Water Intakes

I spoke with David Workman, 704 879-2127, Manager of the Icard Township Water System, who told me that the system gets it water from the Catawba River near Castle Bridge. The location is not on the 15 mile surface pathway from the site.

From: Mary Ganley, Hydrogeologist Mary Ganley

Date: Sept. 24, 1991
Time: 1300

Subject: Southern Desk NCD 986166353
Estimated number of workers

I spoke with Mr. Franklin, owner, (804) 826-7300, who has 11 different tenants on the facility and estimates that approximately 20 people work in the facility.

From: Mary Ganley, Hydrogeologist Mary Ganley

Date: Sept. 24, 1991
Time: 1300

Subject: Southern Desk NCD 986166353
Population Counts

Population counts obtained from PCGEMS are as follows:

Radius	Population
0-1/4	0
1/4-1/2	642
1/2-1	4598
1-2	14942
2-3	24769
3-4	38598

The population count given by PCGEMS for the quarter mile radius is inaccurate therefore an adjustment, based on observations in the field, was made as follows:

Radius	Population
0-1/4	200
1/4-1/2	442

From: Mary Ganley, Hydrogeologist Mary Ganley

Date: Sept. 23, 1991
Time: 1320

Subject: Southern Desk NCD 986166353
Longview Public Water Supply

I spoke with Bruce Mismore, 704 322-1312, with the Town of Longview. He says residences within the town limits is on the town water limits. Areas outside the town limits are also on town water, and these areas are marked on the map.

From: Mary Ganley, Hydrogeologist Mary Ganley

Date: Sept. 20, 1991
Time: 1140

Subject: Southern Desk NCD 986166353
Search for Immediate Removal Documentation

I spoke with Harry LeGrand at the National Hertigage Program and requested printouts for the Hickory, Reepsville, Granite Falls, Longview, and Bethlehem Quads.

From: Mary Ganley, Hydrogeologist Mary Ganley

Date: Sept. 20, 1991
Time: 0900

Subject: Southern Desk NCD 986166353
Search for Immediate Removal Documentation

I spoke with Chuck McCormick of Hart Environmental, 703-243-2705, and requested hazardous waste manifests and laboratory analysis from post removal sampling. He will Fed Ex them for Monday morning delivery.

From: Mary Ganley, Hydrogeologist Mary Ganley

Date: Sept. 19, 1991
Time: 1600

Subject: Southern Desk NCD 986166353
Search for Immediate Removal Documentation

I spoke with Vincent Gallogly, GTE Service Corporation, to find out if a closure report was ever done on the facility. He doesn't think there is such a report. To his knowledge, no post removal sampling was performed. He will pull his file on the site to get the dates of removal, etc. Charles McCormmick, Hart Environmental, 703-243-2705, was in charge of the removal.

Date: Sept. 20, 1991
Time: 09450

Subject: Southern Desk NCD 986166353
Search for Immediate Removal Documentation

I spoke with Vincent Gallogly again this morning who had checked his files and faxed me two post removal reports, one from Hart and another from GSX.

From: Mary Ganley, Hydrogeologist Mary Ganley

Date: Sept. 19, 1991
Time: 1020

Subject: Southern Desk NCD 986166353
RCRA File Review

I checked the RCRA files this morning to see if there was permit information on GTE Services Corporation, Southern Desk Cabinet, NCD986166353, however, there were no file under any of these headings.

Date: Sept. 20, 1991
Time: 0830

Subject: Southern Desk NCD 986166353
RCRA File Review

I spoke with Larry Fox, Hazardous Waste Section, who had written a 1988 report on the site. He gave me the number NCD 081 332 983. The RCRA file was under Southern Cabinet and contained the attached forms. He was present during the removal and gave the name and affiliation of the EPA oversite contractor-De'Lyntoneus Moore of Roy Weston out of Atlanta, Georgia.

Date: September 26, 1991

To: File

From: Mary Ganley Mary Ganley

Re: Southern Desk NCD 986166353
Stream Flow

The stream flow for Longview Creek was calculated as follows:

estimated runoff = 17 in/yr
drainage basin from Longview Creek at mouth = 2.01 sq mi

therefore,

17 x 2.01/13.58 = 25.16 cfs

The stream flow for Henry Fork was calculated as follows:

estimated runoff = 17 in/yr
drainage basin from Henry Fork at Brookford = 94.9 sq mi

therefore,

17 x 94.9/13.58 = 116.48 cfs

The stream flow for the South Fork of the Catawba River was calculated as follows:

estimated runoff = 17 in/yr
drainage basin from S F Catawba R at 2021 = 225 sq mi

therefore,

17 x 225/13.58 = 281.66 cfs

Date: September 26,1991 Mary Ganley

To: File

From: Mary Ganley

Re: Southern Desk NCD 986166353
Surface Water Intakes and Fishing on the 15 mile surface water pathway

I spoke with Tom Spurling, Catawba County Environmental Heath Supervisor, 704 465 8200, this morning. There are no surface water intakes on the Longview Creek, the Henry Fork or the South Fork of the Catawba River, however the locals do fish the water pathway, particularly the spot where HWY 10 crosses the South Fork of the Catawba River. Hickory, Longview and Brookford water systems get there water from the Catawba River, north of the site, not on the 15 mile surface water pathway.

From: Mary Ganley, Hydrogeologist Mary Ganley

Date: Sept. 18, 1991
Time: 1336

Subject: Southern Desk NCD 986166353
Wetlands Information

I spoke with Steve Leonard regarding wetlands on the site and along the mile surface water pathway. There is not a wetlands inventory of the area. He advised me to review the soils in the area and use the occurrence of hydric soils as an indication of wetlands. Soils involved include the Chewacla, Pacolet, Congaree, Buncombe, Cecil, Madison and Hiwassee. None of these are hydric soils, so, it is assumed wetlands do not occur.

From: Mary Ganley, Hydrogeologist Mary Ganley

Date: Sept. 18, 1991
Time: 1336

Subject: Southern Desk NCD 986166353
Wetlands Information

I spoke with Steve Leonard, 733-2302 regarding wetlands near the site and the 15 mile surface water pathway. There are no wetlands inventory maps for the Hickory or Reepsville Quads, nor is there currently any data. The best way to assess the situation is to use the soil survey and review the area for hydric soils.

Date: April 24,1991

To: File

From: Mary Ganley Mary Ganley

Subject: Southern Desk NCD 986166353
Immediate Removal Information

I spoke with Bill Klutz today and found out the following:

o no soil was removed from the site

o rooms in the facility were decontaminated, including scarification of the floors

o post removal sampling has not been done

SITE HEALTH AND SAFETY PLAN

A. General Information

Site Name Southern Desk ID # NCD 986 166 353

Location Corner of 17th Street and 1st Ave. SW Date May 13, 1991

Hickory, NC

Proposed Date of Investigation May 15, 1991

Date of Briefing May 14, 1991

Date of Debriefing May 17, 1991

Nature of Visit (check one): On-Site Reconnaissance (PA) _____

On-Site Reconnaissance (SI) _____

Site Investigation X

Health Department Official Contacted Tina Propst for Tom Spurling

Date of Contact April 29, 1991

Site Investigation Team: All site personnel have read the Site Health and Safety Plan and are familiar with its provisions.

	Personnel	Responsibilities	Signature
Team 1	Mary Ganley	team leader, sampling	
Team 1	John McConney	sampling	
Team 2	Hanna Assefa	sampling	
Team 2	David Lilley	air sampling	

Plan Preparation:

Prepared By: David Lilley, Industrial Hygienist David B. Lilley

Reviewed By: Jack Butler, Environmental Engineer Jack Butler

B. SITE/WASTE CHARACTERISTICS

Waste Type(s) X Liquid ____ Solid ____ Sludge ____ Gas

Characteristics ____ Corrosive X Ignitable ____ Radioactive

X Volatile X Toxic ____ Reactive ____ Other

List Known or Suspected Hazards (physical, chemical biological or radioactive) on Site and their toxicological effects. Also, if known, list chemical amounts

HAZARD	WARNING PROPERTIES	EXPOSURE LIMIT
Methylene Chloride	Odor Threshold (OT) = 25 - 30 ppm	50 ppm
1,2-Dichloroethane	OT = 88 ppm	1 ppm
Toluene	OT = 0.17 - 40 ppm	100 ppm
Methyl Ethyl Ketone	OT = 0.25 - 50 ppm	200 ppm
Methyl Isobutyl Ketone	OT = 0.1 - 47 ppm	50 ppm
Xylene	OT = 0.05 - 200 ppm	100 ppm
Benzene	OT = 1.4 - 85 ppm	10 ppm
Ethyl Benzene	OT = 0.25 - 200 ppm	100 ppm

ID # NCD 986 166 353

Facility Description: Size about 1 acre Buildings 2

Disposal Methods Being Investigated Spillage and residue around drum and tank areas.

Unusual Features on Site (dike integrity, power lines, terrain, etc.): Storage room ceiling leaked, causing drums inside to corrode.

History of the Site: The plant was built in the 1930s, and for the last 20 years it has been owned by various companies involved with furniture manufacturing. The current owner sells new and used woodworking machinery and leases space to other businesses. An immediate removal of drums containing lacquers and varnishes was completed in 1989 or 1990.

C. HAZARD EVALUATION

The site can be toured and sampled in level D protection. PE or PVC gloves will be worn while collecting water and soil samples, nitrile gloves under PE or PVC gloves will be worn if discolored soil or sludge is encountered. The OVA will be used to monitor breathing zone air while auguring. If OVA readings exceed background in the breathing zone, fill in that hole and evacuate that area. Tyvek suits (saranex in wet conditions) will be used by all persons on the field crew while auguring, installing, sampling, and removing the well points. Steel toed work boots will be worn while conducting tour and sampling, auguring, placing, or removing well points.

D. WORK PLAN INSTRUCTION

Map or Sketch Attached? yes

Perimeter Identified? no

Command Post Identified? no

Zones of Contamination Identified? no

Personal Protective Equipment/Level of Protection: ____ C X D

Modifications Wear goggles, face shield, and PVC gloves while preparing acid preserved samples, goggles and PVC gloves while collecting acid preserved samples. Avoid breathing acid vapors. Rinse pipetts with deionized water before disposing of in trash bag.

ID # NCD 986 166 353

Surveillance Equipment:

_____	HNU	_____	Detector Tubes and Pumps
X	OVA	_____	02 Meter
_____	Explosimeter	_____	Radiation Monitor

Decontamination Procedures

_____ Level C Respirator wash, respirator removal, suit wash (if needed), suit removal, boot wash, boot removal and glove removal.

X Level D Boot wash and rinse and boot removal, suit removal, glove and goggle removal.

Modifications Dispose of trash properly, on-site if possible.

Work Schedule/Visit Objectives The purpose of this visit is to determine if the site poses a threat to the public health or environment because of releases of contaminants to soil, surface water, groundwater, or air. Sampling may consist of groundwater, surface water, sediment, and soil sampling.

EMERGENCY PRECAUTIONS

Route of Exposure	First Aid
Eyes	irrigate immediately
Skin	soap and water wash
Inhalation	fresh air and artificial respiration
Ingestion	get medical attention immediately

ID # NCD 986 166 353

Location of Nearest Phone: on-site: this is an operational facility

Hospital (Address and Phone Number)

Frye Regional Medical Center, 420 North Center Street, Hickory, NC 28601

(704) 322-6070

Emergency Transportation Systems (Phone Numbers)

Fire 911

Ambulance 911

Rescue Squad 911

Emergency Route to Hospital Travel east on 1st Avenue about 14 blocks, turn left onto North Center Street and travel about 4 blocks, the hospital will be on the left.

PREVAILING WEATHER CONDITIONS AND FORECAST Partly cloudy with a chance of rain, highs in the 80s.

EQUIPMENT CHECKLIST

	Air purifying respirator	X	First Aid Kit
	Cartridges for respirator	X	3 gal. Deionized H20
X	Eye Wash Unit	X	Rainsuit
	HNU	X	Gloves (PE/PVC/nitrile/cloth)
X	OVA	X	Boots/Boot Covers
	Explosimeter	X	Coveralls (tyvek/saranex)
	Radiation Monitor	X	Eye Protection
X	Decontamination Materials	X	Hard Hat

Poison Control Center - State Coordinator
Duke University Medical Center
Telephone: 1-800-672-1697
Box 3024
Durham, NC 27710

ASHEVILLE 704-255-4490	Western NC Poison Control Center Memorial Mission Hosp. 509 Biltmore Ave. 28801	HENDERSONVILLE 704-693-6522 Ext. 555,556	Margaret R. Pardee Memorial Hospital Fleming St., 28739
CHARLOTTE 704-379-5827	Mercy Hospital 2001 Vail Ave, 28207	HICKORY 704-322-6649	Catawba Mem. Hosp. Fairgrove Chur. Rd 28601
DURHAM 1-800-672-1697	Duke Univ. Med. Center Box 3007, 27710	JACKSONVILLE 919-577-2555	Onslow Mem. Hospital Western Blvd. 28540
GREENSBORO 919-379-4105	Moses Cone Hospital 1200 N. Elm St. 27420	WILMINGTON 919-343-7046	New Hanover Mem. Hospital 2131 S. 17th St. 28401

safeform.126

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STAT
DEPARTMENT OF
RAI

TO BE COMPLETED BY PROJECT MANAGER

PROJECT MANAGER: Mary Ganley PROJECT: Southern Desk

INVESTIGATION DATE: May 15 and 16, 1991

RECONNAISSANCE _____ SAMPLING VISIT X

Materials Used (Please insert a number in the blank)

_____ Air Purifying respirator cartridges
_____ Eye Wash Units
_____ First Aid Kit
_____ Gloves (polyethylene)
_____ Gloves (PVC)
_____ Gloves (nitrile)
_____ Gloves (cloth)
_____ Boot covers
_____ Coveralls (tyvek)
_____ Coveralls (saranex)

Respirator Worn By	Approximate Time in Respirator

Air Monitoring Data (Include Calibration Reading)

HNU: _____

OVA: _____

Explosimter: _____

Radiation Meter: _____

If the maximum personal protective equipment as outlined in the Hazard Evaluation Section was not used, please justify:

_____

Visitors Present	Organization Represented

_____
Signature

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Methylene Chloride

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula CH_2Cl_2	1
Natural Physical State at 25°C liquid	2
Vapor Pressure 350 mm Hg at 20°C	2
Melting Point -141 °F/°C Boiling Point 104 °F/°C	2
Flash Point (open or closed cup) ? °C/°F	2
Solubility - H_2O soluble in 50 parts water	1
Other misible with alcohols, ether, DMF	1

Physical Features: (odor, color, etc.) Colorless liquid with a chloroform-like odor (2) IP = 11.35 eV. Relative response on HNU = 9.4. OVA Relative Response = 100%

II. TOXICOLOGICAL DATA

Standards: 50 ppm(3) TLV 500 ppm(4) PEL suspect human carcinogen IDLH 3

Routes of Exposure: Inhalation, ingestion, eye contact, skin contact

Acute/Chronic Symptoms: Fatigue, weakness, sleepiness, light headedness, numb and tingling limbs, nausea, eye and skin irritation, vertigo, choking (2)

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Methylene Chloride

III. HAZARDOUS CHARACTERISTICS | Reference

A. Combustibility Yes X No ____ | 2

Toxic by-products _____ | _____

_____ | _____

B. Flammability LEL 12% UEL 19% | 2

C. Reactivity Hazard incompatible with strong oxidizers and caustics, chemically active metals such as Al or Mg powders, sodium, potassium. | 2

D. Corrosivity Hazard yes/no pH: _____ | _____

Neutralizing agent: _____ | _____

E. Radioactive Hazard | Exposure Rate

Background	yes/no	_____	_____
Alpha particles	yes/no	_____	_____
Beta particles	yes/no	_____	_____
Gamma radiation	yes/no	_____	_____

IV. REFERENCES

(1) The Merck Index, 11th Edition, 1989

(2) Pocket Guide to Chemical Hazards, NIOSH, 1987

(3) Threshold Limit Values and Biological Exposure Indices for 1990-91, ACGIH

(4) 29 CFR 1910 1000

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: 1,2-dichloroethane

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula $C_2H_4Cl_2$	1
Natural Physical State at 25°C liquid	2
Vapor Pressure 62 mm Hg at 20°C	2
Melting Point -32 °F/°C Boiling Point 183 °F/°C	2
Flash Point (open or closed cup) 55 °C/°F	2
Solubility - H_2O 0.8%	2
Other alcohol, chlorform, ether	1

Physical Features: (odor, color, etc.) clear liquid with a sweet odor like chlorofrom(2) 1P=11.12 eV, HNU sensitivity=12.9 with 11.7 eV probe.

II. TOXICOLOGICAL DATA REL = 1 ppm for 10 hour TWA (2)

Standards: 10 ppm(3) TLV 1 ppm(4) PEL suspect carcinogen IDLH 2

Routes of Exposure: Inhalation, Ingestion, Skin absorption, eye contact

Acute/Chronic Symptoms: Central nervous system depression, nausea, vomiting, dermititis, eye irritation, corneal opacity, suspect carcinogen(2).

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: 1,2-dichloroethane

III. HAZARDOUS CHARACTERISTICS | Reference

A. Combustibility Yes X No ____ | 1

Toxic by-products _____ | _____

_____ | _____

B. Flammability LEL 6.2% UEL 16% | 2

C. Reactivity Hazard strong oxidizers and caustics, chemically active metals such as aluminum or magnesium powder, sodium, potassium. | 2

D. Corrosivity Hazard yes/no pH: _____ | _____

Neutralizing agent: _____ | _____

E. Radioactive Hazard

		Exposure Rate	
Background	yes/no	_____	_____
Alpha particles	yes/no	_____	_____
Beta particles	yes/no	_____	_____
Gamma radiation	yes/no	_____	_____

IV. REFERENCES

1. The Merck Index, 11th Edition, 1989.
2. NIOSH Pocket Guide to Chemical Hazards, 1987.
3. Threshold Limit Values and Biological Exposure Indices for 1990-1991.
4. 29 CFR 1910.1000.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Toluene (Methyl benzene, toluol)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula C7H8	1,2,3,4
Natural Physical State at 25°C liquid	1,2,3,4
Vapor Pressure 2 mm Hg at 20°C	4
Melting Point -95 °F/°C Boiling Point 110.6 °F/°C	1,3,4
Flash Point (open or closed cup) 40 °C/°F	1,2,3,4
Solubility - H_2O slightly soluble	1,3,4
Other miscible with alcohol, chloroform, ether, acetone, glacial acetic acid, carbon disulfide	1,3,4

Physical Features: (odor, color, etc.) colorless liquid with an aromatic odor, IP 8.82 eV, derived from coal tar oil or petroleum Relative response on HNU = 10

II. TOXICOLOGICAL DATA

Standards: 100 ppm (5) TLV 100 ppm (6) PEL 2000 ppm IDLH 4

Routes of Exposure: inhalation; ingestion, skin contact, eye contact

Acute/Chronic Symptoms: Narcotic in high concentrations, headache, lassitude, and nausea. Chronic: anemia and dermatitis.

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Toluene

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes X No ____ — 4

Toxic by-products _____

B. Flammability LEL 1.0% UEL 7.0% — 4

C. Reactivity Hazard strong oxidizers — 3

D. Corrosivity Hazard yes/no pH: _____

Neutralizing agent: _____

E. Radioactive Hazard — Exposure Rate

Background	yes/no		
Alpha particles	yes/no		
Beta particles	yes/no		
Gamma radiation	yes/no		

IV. REFERENCES

(1) The Merck Index, 11th Edition, 1989

(2) Documentation of the TLV, 4th Edition, 1980

(3) NIOSH Pocket Guide for Chemical Hazards, 1987

(4) NEPA, Protection Guide on Hazardous Materials, 8th Edition, 1984

(5) Threshold Limit Values and Biological Exposure Indices for 1990-1991.

(6) 1910.1000, 1989.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Methyl Ethyl Ketone (2 Butanone)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula C4 H8 O	1,2,3
Natural Physical State at 25°C liquid	1,2,3
Vapor Pressure 70.6 mm Hg at 20°C	2,3
Melting Point -123 °F/°C Boiling Point 175 °F/°C	2
Flash Point (open or closed cup) 35 °C/°F	1,2
Solubility - H_2O 27%	1,3
Other common organic solvents	2

Physical Features: (odor, color, etc.) clear, colorless liquid with acetone-like odor, odor detection 10 ppm IP - 9.48 eV Hnu sensitivity with 10.2 eV probe = 5.7

II. TOXICOLOGICAL DATA

Standards: 200 ppm (4) TLV 200 ppm (5) PEL 3000 ppm IDLH 3

Routes of Exposure: Inhalation, Ingestion, Skin Contact, Eye Contact

Acute/Chronic Symptoms: irritation of eyes and nose, headache, dizziness, vomiting (3).

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Methyl Ethyl Ketone

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes x No ____ — 2

Toxic by-products _____

B. Flammability LEL 12% UEL 20% — 2

C. Reactivity Hazard very strong oxidizers — 3

D. Corrosivity Hazard yes/no pH: _____

Neutralizing agent: _____

E. Radioactive Hazard — Exposure Rate

Background	yes/no		
Alpha particles	yes/no		
Beta particles	yes/no		
Gamma radiation	yes/no		

IV. REFERENCES

(1) The Merck Index, 11th Edition, 1989.

(2) Documentation of the TLV's, 1980.

(3) NIOSH Pocket Guide to Chemical Hazards, 1987.

(4) Threshold Limit Values and Biological Exposure Indices for 1988-1989, ACGIH

(5) CFR 1910.1000

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Methyl Isobutyl Ketone

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula $C_6H_{12}O$	1
Natural Physical State at 25°C liquid	2
Vapor Pressure 15 mm Hg at 20°C	3
Melting Point -119 °F/°C Boiling Point 244 °F/°C	3
Flash Point (open or closed cup) 73 °C/°F	3
Solubility - H_2O 1.9%	3
Other micible with alcohol, chloroform, ether	1

Physical Features: (odor, color, etc.) Colorless liquid with a pleasant odor (3) IP = 9.30 eV, HNU sensitivity with 10.2 eV probe = 5.7 Relative Response on OVA = 80%

II. TOXICOLOGICAL DATA

Standards: 50ppm (4) TLV 50ppm (5) PEL 3,000ppm (3) IDLH

Routes of Exposure: Inhalation, Ingestion, Skin and/or eye contact

Acute/Chronic Symptoms: Irritation of the eyes and mucous membranes, headache, drowsiness, skin problems (4)

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Skin contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Methyl Isobutyl Ketone

III. HAZARDOUS CHARACTERISTICS

		Reference
A. Combustibility	Yes X No ____	4
Toxic by-products	"Irritating vapors are generated when heated"	6
B. Flammability	LEL 1.4% UEL 7.5%	3
C. Reactivity Hazard	Incompatible with strong oxidizers	3

D. Corrosivity Hazard yes/no pH: _____

Neutralizing agent: _____

E. Radioactive Hazard

		Exposure Rate	
Background	yes/no		
Alpha particles	yes/no		
Beta particles	yes/no		
Gamma radiation	yes/no		

IV. REFERENCES

1. The Merck Index, 11th Edition, 1989.
2. Condensed Chemical Dictionary, Sax, 11th Edition.
3. NIOSH Pocket Guide to Chemical Hazards, 1987.
4. ACGIH Threshold Limit Values and Biological Exposure Indices for 1990-1991.
5. 29 CFR 1910.1000.
6. Chemical Hazard Response Information System, US Department of Transportation, 1985.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Xylene, O, M, & P (Dimethyl benzene)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula C8 H10	1
Natural Physical State at 25°C liquid	1
Vapor Pressure 7-9 mm Hg at 20°C	1
Melting Point 13-14 °F/°C Boiling Point 137-140 °F/°C	1
Flash Point (open or closed cup) 90/84/81 °C/°F	1
Solubility - H_2O insoluble	1
Other soluble in alcohol, ether and most other organic solvents.	1

Physical Features: (odor, color, etc.) colorless liquid with aromatic/benzene odor. Common solvent for paints and coatings. IP = 8.5 eV. HNU relative response with 10.2 eV probe = 11.3, OVA relative response = 111 - 116%

II. TOXICOLOGICAL DATA

Standards: 100 ppm (2) TLV 100 ppm (3) PEL 1,000 ppm (4) IDLH 4

Routes of Exposure: Inhalation, Ingestion, Skin and/or Eye contact

Acute/Chronic Symptoms: headache, fatigue, dizziness, lassitude, narcotic effects in high concentrations (5,6). Chronic effects not well defined (1).

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Xylene, O, M, & P

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes X No ____ — 1,2,3,4

Toxic by-products _____

B. Flammability LEL 1.4% UEL 6.7% — 2

C. Reactivity Hazard strong oxidizers — 4

D. Corrosivity Hazard yes/no pH: _____

Neutralizing agent: _____

E. Radioactive Hazard — Exposure Rate

Background	yes/no		
Alpha particles	yes/no		
Beta particles	yes/no		
Gamma radiation	yes/no		

IV. REFERENCES

(1) The Merck Index, 11th Edition, 1989.

(2) Threshold Limit Values and Biological Exposure Indices for 1990-1991.

(3) 29 CFR 1910.1000

(4) NIOSH Pocket Guide to Chemical Hazards, 1987.

(5) NFPA, Fire Protection Guide on Hazardous Materials, 8th Edition, 1984.

(6) Documentation of the TLV, 4th Edition, 1980

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Benzene

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula C6 H6	1,2
Natural Physical State at 25°C liquid	1,2
Vapor Pressure 75 mm Hg at 20°C	1,2
Melting Point 42 °F/°C Boiling Point 80 °F/°C	1,2
Flash Point (open or closed cup) 12 °C/°F	1,2
Solubility - H_2O 0.18%	2
Other in alcohol, Acetone Ether	1

Physical Features: (odor, color, etc.) colorless liquid with odor of aromatic hydrocarbons IP = 9.24 eV. Relative response on HNU = 10 Relative Response on OVA = 150%

II. TOXICOLOGICAL DATA

Standards: 10 ppm (3) TLV 10 ppm (4) PEL potential human carcinogen IDLH 2

Routes of Exposure: inhalation, ingestion, skin contact, eye contact

Acute/Chronic Symptoms: Upper respiratory irritation, muscle spasms, slow pulse, irritated eyes and skin burns, suspect human carcinogen. (1)

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Benzene

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes X No ____ — 2

Toxic by-products not pertinent — 5

B. Flammability LEL 1.3% UEL 7.1% — 2

C. Reactivity Hazard Strong oxidizer, chlorine — 2

D. Corrosivity Hazard yes/no pH: _____ — _____

Neutralizing agent: _____ — _____

E. Radioactive Hazard — Exposure Rate

Background	yes/no	_____	_____
Alpha particles	yes/no	_____	_____
Beta particles	yes/no	_____	_____
Gamma radiation	yes/no	_____	_____

IV. REFERENCES

(1) Documentation of the TLV's, 4th Edition, 1980

(2) Pocket Guide to Chemical Hazards, NIOSH, 1987

(3) Threshold Limit Values and Biological Indices for 1990-1991, ACGIH.

(4) CFR 1910.1000.

(5) Chemical Hazard Response Information System, US Coast Guard, 1985.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Ethyl Benzene

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula C8 H10	1,2
Natural Physical State at 25°C liquid	1,2
Vapor Pressure 7.1 mm Hg at 20°C	2
Melting Point -95 °F/°C Boiling Point 136 °F/°C	1
Flash Point (open or closed cup) 59-64 °C/°F	1,2
Solubility - H_2O 0.015%	2
Other miscible with usual organic solvents	1

Physical Features: (odor, color, etc.) colorless, flammable liquid with an aromatic odor. IP = 8.76 eV Relative Response OVA = 100%

II. TOXICOLOGICAL DATA

Standards: 100 ppm (3) TLV 100 ppm (4) PEL 2000 ppm IDLH 2

Routes of Exposure: Inhalation, Ingestion, Skin/Eye contact

Acute/Chronic Symptoms: Irritation of the eyes and mucus membranes, headache, skin problems, sleepiness, coma (2)

First Aid: Eyes: irrigate immediately; Skin; water flush promptly; Inhalation; fresh air, artificial respiration; Ingestion: medical attention immediately.

Chemical Name: Ethyl Benzene

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes X No ___ — 2

Toxic by-products none known

B. Flammability LEL 1.0% UEL 6.7% — 2

C. Reactivity Hazard Strong oxidizers — 2

D. Corrosivity Hazard yes/no pH: ___

Neutralizing agent: ___

E. Radioactive Hazard — Exposure Rate

Background	yes/no		
Alpha particles	yes/no		
Beta particles	yes/no		
Gamma radiation	yes/no		

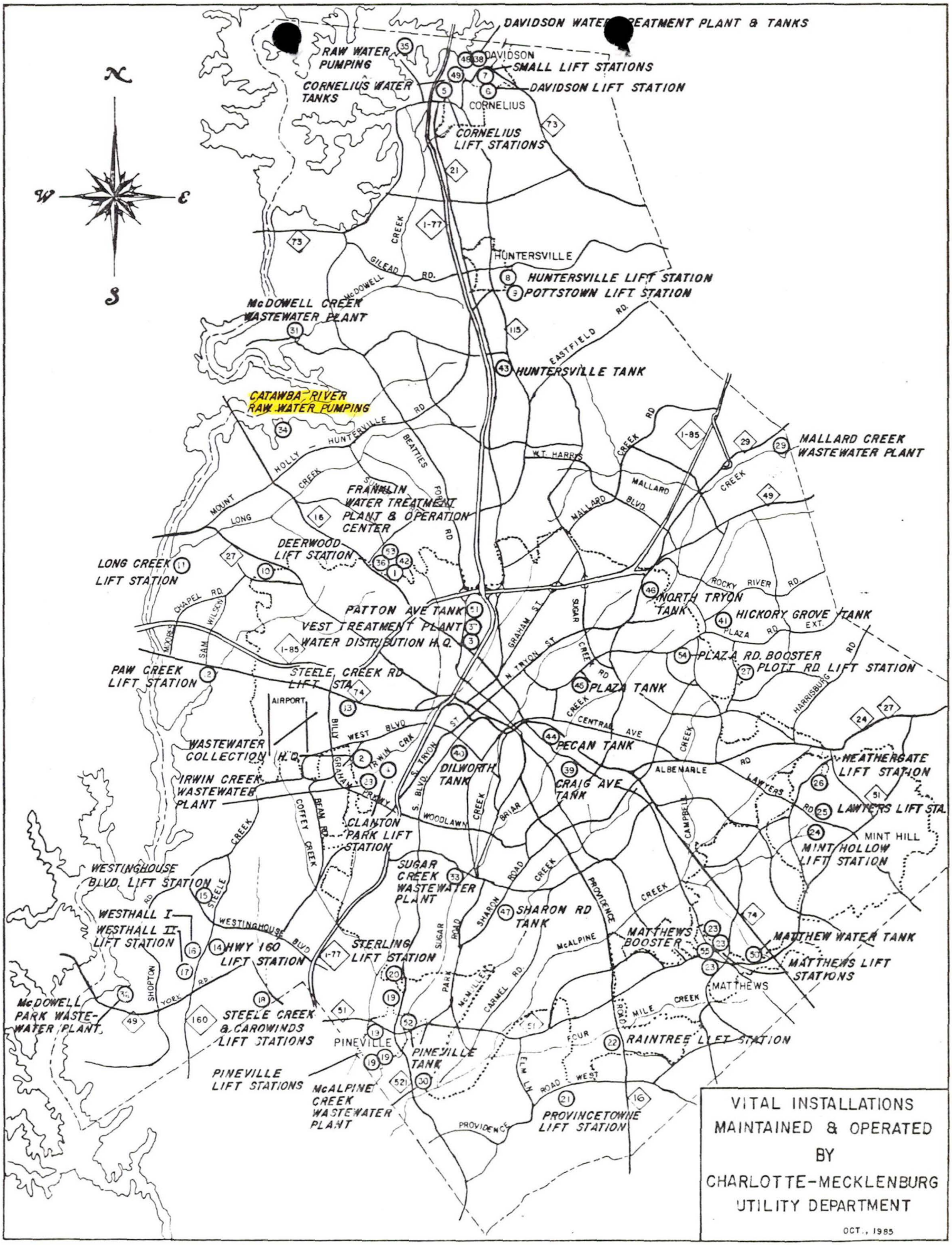
IV. REFERENCES

(1) The Merck Index, 11th Edition, 1989

(2) Pocket Guide to Chemical Hazards, NIOSH 1987

(3) Threshold Limit Values and Biological Exposure Indices for 1990-91, ACGIH.

(4) 29 CFR 1910.1000.



VITAL INSTALLATIONS MAINTAINED & OPERATED BY CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT

OCT., 1985

State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Solid Waste Management
P.O. Box 27687 · Raleigh, North Carolina 27611-7687

James G. Martin, Governor
William W. Cobey, Jr., Secretary

William L. Meyer
Director

April 29, 1991

Mr. Thomas Spurling
Environmental Health Supervisor
Catawba County Health Department
Post Office Box 389
Newton, North Carolina 28658

RE: Screening Site Investigation
Southern Desk
NCD 986 166 353

Dear Mr. Spurling:

David Lilley of the North Carolina Superfund Section spoke with Tina Propst of your office today to notify you that the North Carolina Superfund Section will conduct a screening site investigation of the subject site located in Catawba County, NC. The investigation will be conducted on May 15 and 16, 1991 by Mary Ganley of the North Carolina Superfund Section.

The purpose of the investigation is to determine if the site poses a hazard to public health or the environment because of releases of contaminants to soil, surface water, groundwater, or air. The investigation team will take samples on and around the site to determine if a hazardous condition exists. Additionally, they will locate all nearby water supplies (surface and groundwater, community and private) and any close sensitive environments, schools, and day care centers.

This investigation is not an emergency situation but is a normal step in the evaluation of all uncontrolled and unregulated potential hazardous waste sites in North Carolina. You may want to have your representative meet the investigation team at the site. If so, please contact Mary Ganley at (919) 733-2801 and she will coordinate a meeting. I am enclosing background data on the site for your information.

If the investigation indicates the need for future study of the site, we will contact your office to advise. If you have any questions, please don't hesitate to call David Lilley or me at (919) 733-2801.

Sincerely,

Pat DeRosa, Head
CERCLA Branch
Superfund Section

Enclosures

cc: Jim Coffey
Doug Holyfield
Steve Reid
Patricia Bowden
Ann Rudd
David Lilley
File

Federal
Trip Notification & Authorization

Prepared by: Mary Ganley

Today's Date: 4/26/91

*Use Black Ink or Typewriter only-Staff to fill out first 2 blocks only.

Site Trip

Date of Trip: May

If trip date changed or cancelled note below:
Trip Date Changed To: _____ Cancelled: ____

NCD#: 986 166 353 Site Name: Southern Desk
City: Hickory County: Catawba County

Reason for Trip: Screening Site Investigation

Name of Hotel (Overnight Trip): Days Inn Hotel Telephone Number: (704) 465 - 1100

Authorized by: David B. [illegible]
Industrial Hygienist

Project Team Leader: Mary Ganley

Assistants: John McCanney Hanna Asseta

Attach To Notification Form: 1 copy each:
Submit to the
Industrial Hygienist

Preliminary Assessment Form (First page only) ✓
Site Map ✓
PA Transmittal Letter ✓

(Please list appropriate County Health Department contact person to call to advise of trip)
Environmental Supervisor or Health Director to call: Tom Spurling Title: Env. Health Supervisor
(Note if Dr., M.P., etc.)
Telephone Number: (704) 465 - 8270

Notes: Health Department Official Contacted: Tina Propst
Back Up Letter Required: Yes ✓ No ____
Notified Tina Propst for Tom Spurling on 4-29-91 (OBC)

Note: Signed original to Data Manager

State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Solid Waste Management
P.O. Box 27687 · Raleigh, North Carolina 27611-7687

James G. Martin, Governor
William W. Cobey, Jr., Secretary

William L. Meyer
Director

19 March 1990

Mr. Robert Morris
EPA Region IV Waste Division
EPA NC CERCLA Project Officer
345 Courtland Street, NE
Atlanta, GA 30365

Subject: Copy Request

SSI and HRS:	
American Petrofina Mktg/Greensboro	NCD 096 160 262
Travenol Laboratories	NCD 059 140 764
PA and HRS:	
Humpback Mountain Road	NCD 981 929 375
JMC Plating	NCD 115 990 574
HRS:	
Southen Desk	NCD 986 166 353

Dear Mr. Morris:

Enclosed please find copies of the subject files as per your telephone request last week.

If you have any questions, please contact me at (919) 733-2801.

Sincerely,

Pat DeRosa

Pat DeRosa, Head
CERCLA Branch
Solid Waste Management Division

cc: File

GN/db/pat.doc

C. Department of Human Resources
ision of Health Services

SAMPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

e Number 18 D TBA Field Sample Number 4057

me of Site FRANKLIN MACHINERY Site Location Hickory

llected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

pe of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	(#1) Storage Room Residue
___ Surface Water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	✓ Other (8) Residue	

RECEIVED NOV 7 1988 SUPERFUND BRANCH SOLID WASTE MANAGEMENT SECTION

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

ate Received 9-30-88 JN Date Reported 11-2-88

ate Extracted 10-6-88 BD Date Analyzed PT 10-7-88 TW BNA 10-7-88 BD

eported By John R. Neal Lab Number 802394

HS 3191 (Revised 7/85)
h Land Hazardous Waste (Review 7/87)

#802394 – 802403

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

te Number 18 D TBA Field Sample Number 4058

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	(#2) Mixing Room Residue
___ Surface Water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	✓ Other (8) Residue	

RECEIVED NOV 7 1988 SOLID WASTE MANAGEMENT SECTION SUPERFUND BRANCH

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum *		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

* Petroleum Distillates

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received 9-30-88 JN Date Reported

Date Extracted 10-6-88 BD Date Analyzed PT 10-6-88 MW BWA 10-10-88 BD

Reported By Lab Number 802395

DHS 3191 (Revised 7/85)
Solid and Hazardous Waste (Review 7/87)

Purpose: Enforcement and compli[illegible] with the N. C. Solid and Hazardous [illegible]ste Management Rules.

Preparation A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radiochemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

$$ppm = \mu g/ml = mg/l = \mu g/g = mg/kg$$
$$ppb = \mu g/l = \mu g/1000g = \mu g/kg$$

DEFINITIONS/INSTRUCTIONS

Site Number — A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number — A six-digit sample identifier which is pre-printed on the sample label.

Name of Site — Name of landfill, facility, etc.

Site Location — Address, street number, state road, etc.

Collected By — Name and ID of sample collector.

Date and Time Collected — Self-explanatory.

Environmental — A sample of a naturally occurring substance such as groundwater, surface water or soils which may be contaminated.

Concentrate — A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments — Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry — Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry — Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry — The Raleigh office should be consulted prior to sampling for either of these.

Distribution:

1. Original to State Laboratory of Public Health

   Environmental Sciences Branch
   P. O. Box 28047
   Raleigh, NC 27611

2. Lab sends copy to Solid and Hazardous Waste Management Branch.

3. Solid and Hazardous Waste Management Branch sends copy to field person.

Disposition: This form may be destroyed in accordance with the Environmental Health, Solid and Hazardous Waste Section of the *Records Disposition Schedule* as published by the North Carolina Division of Archives and History.

Additional forms may be ordered from:

Solid and Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602-2091

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

te Number 18 D TBA Field Sample Number 4059

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
____ Groundwater (1)	____ Solid (5)	(#3) RAINWATER IN DRUM
____ Surface Water (2)	✓ Liquid (6)	
____ Soil (3)	____ Sludge (7)	ONLY VOA SAMPLE SUBMITTED
____ Other (4)	____ Other (8)	

RECEIVED NOV 7 1988 SOLID WASTE MANAGEMENT SECTION SUPERFUND BRANCH

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
____ Arsenic		____ Arsenic		____ Silver	
____ Barium		____ Barium		____ Sulfates	
____ Cadmium		____ Cadmium		____ Zinc	
____ Chromium		____ Chloride		____ Ph	
____ Lead		____ Chromium		____ Conductivity	
____ Mercury		____ Copper		____ TDS	
____ Selenium		____ Fluoride		____ TOC	
____ Silver		____ Iron			
		____ Lead			
		____ Manganese			
		____ Mercury			
		____ Nitrate			
		____ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		____ EDB		____ Methoxychlor	
____ Acid:B/N Ext.		____ PCB's		____ Toxaphene	
____ TOX		X Petroleum *		____ 2,4-D	
		____ Endrin		____ 2,4,5-TP (silvex)	
		____ Lindane			

MICROBIOLOGY

Parameter
____ (MF) Coliform Colonies/100mls
____ (MPN) Coliform Colonies/100mls

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
____ Gross Alpha	
____ Gross Beta	

Date Received 9-30-88 JN Date Reported

Date Extracted Date Analyzed PT 10-3-88 nw

Reported By Lab Number 802396

DHS 3191 (Revised 7/85)
Solid Hazardous Waste (Review 7/87)

C. Department of Human Resources
vision of Health Services

AMPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

te Number 18 D TBA Field Sample Number 4060

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

RECEIVED NOV 7 1988 SOLID WASTE MANAGEMENT SECTION SUPERFUND BRANCH

Environmental	Concentrate	Comments
___ Groundwater (1)	✓ Solid (5) (Gel)	(#4) Red Gel Material from Drum
___ Surface Water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

* Petroleum Distillates

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received 9-30-88 JN Date Reported

Date Extracted 10-6-88 BD Date Analyzed 802397 PT 10-6-88 mw BNA 10-7-88 BD

Reported By Lab Number

DHS 3191 (Revised 7/85)
Solid and Hazardous Waste (Review 7/87)

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

RECEIVED NOV 2 1988 SOLID WASTE MANAGEMENT SECTION SUPERFUND BRANCH

te Number 18 D TBA Field Sample Number 4061

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	#5 Soil/Residue Composite near drums
___ Surface Water (2)	___ Liquid (6)	
✓ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received 9-30-88 JN Date Reported

Date Extracted 10-6-88 BD Date Analyzed PT 10-7-88 MW BNA 10-11-88BD

Reported By Lab Number 802393

DHS 3191 (Revised 7/85)
Solid Hazardous Waste (Review 7/87)

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

RECEIVED NOV 7 1988 SOLID/HAZ. SUPERFUND BRANCH MANAGEMENT SECTION

te Number 18 D TBA Field Sample Number 4062

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	#6 Corner Soil Sample
___ Surface Water (2)	___ Liquid (6)	
✓ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

*Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received 9-30-88 JN Date Reported

Date Extracted 10-6-88 BD Date Analyzed AT 10-7-88 TW BNA 10-7-88 BD

Reported By Lab Number 802399

DHS 3191 (Revised 7/85)
Hazardous Waste (Review 7/87)

C. Department of Human Resources
vision of Health Services

SAMPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

te Number 18 D TBA Field Sample Number 406B

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

RECEIVED NOV 7 1988 SOLID WASTE MANAGEMENT SECTION

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	(#7) Drum Product Sample (Stain)
___ Surface Water (2)	✓ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received 9-30-88 JN Date Reported

Date Extracted 10-6-88 BD Date Analyzed PT 10-5-88 nw BNA 10-11-88 BD

Reported By Lab Number 802400

DHS 3191 (Revised 7/85)
Lab Land Hazardous Waste (Review 7/87)

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

te Number 18 D TBA Field Sample Number [redacted] 4063

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
____ Groundwater (1)	____ Solid (5)	#(7) Drum Product Sample (Stain)
____ Surface Water (2)	✓ Liquid (6)	PLEASE HAVE BILL WALKER
____ Soil (3)	____ Sludge (7)	DETERMINE FLASH POINT
____ Other (4)	____ Other (8)	A.S.A.P. Thanks.

RECEIVED NOV 7 1988 SOLID WASTE MANAGEMENT SECTION SUPERFUND BRANCH

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
____ Arsenic		____ Arsenic		____ Silver	
____ Barium		____ Barium		____ Sulfates	
____ Cadmium		____ Cadmium		____ Zinc	
____ Chromium		____ Chloride		____ Ph	
____ Lead		____ Chromium		____ Conductivity	
____ Mercury		____ Copper		____ TDS	
____ Selenium		____ Fluoride		____ TOC	
____ Silver		____ Iron		✓ flash point	
		____ Lead			
		____ Manganese			
		____ Mercury			
		____ Nitrate			
		____ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
____ P&T:GC/MS		____ EDB		____ Methoxychlor	
____ Acid:B/N Ext.		____ PCB's		____ Toxaphene	
____ TOX		____ Petroleum		____ 2,4-D	
		____ Endrin		____ 2,4,5-TP (silvex)	
		____ Lindane			

MICROBIOLOGY

* Petroleum Distillates

Parameter
____ (MF) Coliform Colonies/100mls
____ (MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCi/1
____ Gross Alpha	
____ Gross Beta	

Date Received 9-30-88 JN Date Reported

Date Extracted Date Analyzed

Reported By Lab Number 802401

DHS 3191 (Revised 7/85)
ub: Land Hazardous Waste (Review 7/87)

C. Department of Human Resources
vision of Health Services

SAMPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

te Number 18 D TBA Field Sample Number 4064

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

RECEIVED NOV 7 1988 SOLID WASTE MANAGEMENT SUPERFUND BRANCH SECTION

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	#8 Composite Surface Soil outside drum area
___ Surface Water (2)	___ Liquid (6)	
✓ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received 9-30-88 JN Date Reported

Date Extracted 10-6-88 BD Date Analyzed PT 10-10-88 nw BNA 10-7-88 BD

Reported By Lab Number 802402

DHS 3191 (Revised 7/85)
Solid Hazardous Waste (Review 7/87)

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

te Number 18 D TBA Field Sample Number 4065

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	(#9) BACKGROUND SOIL SAMPLE
___ Surface Water (2)	___ Liquid (6)	
✓ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

RECEIVED NOV 7 1988 SOLID WASTE MANAGEMENT SECTION SUPERFUND BRANCH

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received 9-30-88 JN Date Reported

Date Extracted 10-6-88 BD Date Analyzed PT 10-10-88 BWA 10-10-88 BD

Reported By Lab Number 802403

DHS 3191 (Revised 7/85)
Solid Land Hazardous Waste (Review 7/87)

DIVISION OF HEALTH SERVICES
SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH

Chain of Custody Record

Hazardous Waste Materials

RECEIVED
NOV 7 1988
SOLID WASTE MANAGEMENT SECTION
SUPERFUND BRANCH

Location of Sampling: ____ Generator ____ Transporter ____ Treatment Faci
____ Storage Facility ____ Disposal Facility ____ Landfill
✓ Other: Former Furniture Manufacturer

Company's Name FRANKLIN MACHINERY Telephone( ) N/A

Address 1720 1ST Avenue Hickory, NC

Collector's Name Bruce Nicholson (signature) Telephone(919) 733-2801

Date Sampled 29 September 1988 Time Sampled 1 - 3 pm

Type of Process Generating Waste Furniture Manufacturing

Field Information

NOTE ON SAMPLE 4063 → REQUEST FLASH POINT ASAP

Field Sample No. 4057 4058 4059 4060 4061 4062 4063
4064 4065

Chain of Possession:

1. Bruce A. Nicholson — Environmental Engineer II — 9/29 - 9/30/88
signature title inclusive dates

2. John L. Neal — Analytical Chemist — 9/30/88
signature title inclusive dates

3. _____ _____ _____
signature title inclusive dates

Results reported

_____ _____ _____
signature title date

Instructions: Complete all applicable information including signatures, and submit with analysis request forms.

DIVISION OF HEALTH SERVICES
SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH

Receipt for Samples

The samples described below were collected in connection with the administration, enforcement, and documentation of the:

( ) North Carolina Hazardous Waste Management Rules, 10 NCAC 10F

( ) North Carolina Solid Waste Management Rules, 10 NCAC 10G

( ) Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

( ) Toxic Substances Control Act (TSCA). 15 U.S.C. §2601, et seq., specifically Section 11 of TSCA, 15 U.S.C. § 2610.

Inspector's Name | Inspector's Address

Name of Firm | Firm Address

Firm Owner, Operator, or Agent | Title

SAMPLE NUMBER	COLLECTED		SAMPLE TYPE			DUPLICATE SAMPLES			SAMPLE LOCATION	
	DATE	TIME	WATER	SOIL	OTHER	OFFERED	ACCEPTED	REJECTED	ON-SITE	OFF-SITE

Receipt for the sample(s) described above is hereby acknowledged:

Signature of Inspector

Title

Receipt/rejection of duplicate or split samples is hereby acknowledged:

Signature of Firm Owner, Operator, or Ag

Title

COMMENTS

t of Human Resources
lth Services

SAMPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

RECEIVED
SOLID WASTE MANAGEMENT SECTION
SUPERFUND BRANCH
2 1988

mber 18 D TBA Field Sample Number 4063

e of Site FRANKLIN MACHINERY Site Location Hickory

ected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

e of Sample:

nvironmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	(#7) Drum Product Sample (Stain)
___ Surface Water (2)	✓ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
Arsenic		Arsenic		Silver	
Barium		Barium		Sulfates	
Cadmium		Cadmium		Zinc	
Chromium		Chloride		Ph	
Lead		Chromium		Conductivity	
Mercury		Copper		TDS	
Selenium		Fluoride		TOC	
Silver		Iron		✓ Flash Point	≤ 76°F
		Lead			
		Manganese			
		Mercury			
		Nitrate			
		Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
✗ P&T:GC/MS		EDB		Methoxychlor	
✗ Acid:B/N Ext.		PCB's		Toxaphene	
TOX		✗ Petroleum *		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

* Petroleum Distillates

Parameter
(MF) Coliform Colonies/100mls
(MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCi/1
Gross Alpha	
Gross Beta	

e Received 9-30-88 JN Date Reported

e Extracted Date Analyzed

orted By Lab Number 802400 018593 OCT 188

3191 (Revised 7/85)
and Hazardous Waste (Review 7/87)

(1)

STATE LABORATORY OF PUBLIC HEALTH
DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

RECEIVED
NOV 7 1988
SUPERFUND BRANCH
SOLID WASTE MANAGEMENT SECTION

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	B02394	B02395	B02397	B02400		
	FIELD #	4057	4058	4060	4063		
COMPOUND	TYPE	(5)	(5)	(5)	(6)	( )	( )
	UNITS	~~µg/l µg/kg~~	~~µg/l µg/kg~~	~~µg/l µg/kg~~	~~µg/l µg/kg~~	µg/l µg/kg	µg/l µg/kg
N-nitrosodimethylamine		u	u	u	u		
bis(2-chloroethyl)ether							
2-chlorophenol							
phenol							
1,3-dichlorobenzene							
1,4-dichlorobenzene							
1,2-dichlorobenzene							
bis(2-chloroisopropyl)ether							
hexachloroethane							
N-nitroso-di-n-propylamine							
nitrobenzene							
isophorone							
2-nitrophenol							
2,4-dimethylphenol							
bis(2-chloroethoxy)methane							
2,4-dichlorophenol							
1,2,4-trichlorobenzene							
naphthalene			25		61		
hexachlorobutadiene			u		u		
4-chloro-m-cresol							
hexachlorocyclopentadiene							
2,4,6-trichlorophenol							
2-chloronaphthalene							
acenaphthylene							
dimethyl phthalate							
2,6-dinitrotoluene							
acenaphthene							
2,4-dinitrophenol							
2,4-dinitrotoluene							
4-nitrophenol							
fluorene							
4-chlorophenylphenylether							
diethyl phthalate							
4,6-dinitro-o-cresol							
diphenylamine							
azobenzene							
4-bromophenylphenylether							
hexachlorobenzene							
pentachlorophenol							
phenanthrene							
anthracene							
dibutyl phthalate			52				
fluoranthene			u				
units		µg/g	µg/g	µg/g	µg/ml		

Samples diluted in methylene chloride

J - Estimated value.
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
NA - Not analyzed.
1/ - Tentative identification.
2/ - On NRDC List of Priority Pollutants.

N.C. Division of Health Services
DHS 3068-0 (4/86 Laboratory)

(2)

STATE LABORATORY OF PUBLIC HEALTH
DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

RECEIVED
NOV 7 1988
SOLID WASTE MANAGEMENT SECTION
SUPERFUND BRANCH

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	802394	802395	802397	802400		
	FIELD #	4057	4058	4060	4063		
COMPOUND	TYPE	(5)	(5)	(5)	(6)	( )	( )
	UNITS	~~µg/l~~ ~~µg/kg~~	~~µg/l~~ ~~µg/kg~~	~~µg/l~~ ~~µg/kg~~	~~µg/l~~ ~~µg/kg~~	µg/l µg/kg	µg/l µg/kg
pyrene		u	u	u	u		
benzidine			u		u		
butyl benzyl phthalate			60,500		688		
benz(a)anthracene			u		u		
chrysene			↓		↓		
3,3-dichlorobenzidine							
bis(2-ethylhexyl)phthalate			1,100		3,729		
di-n-octyl phthalate			207		u		
benzo(b)fluoranthene			u				
benzo(k)fluoranthene							
benzo(a)pyrene							
indeno(1,2,3-cd)pyrene							
dibenzo(a,h)anthracene							
benzo(g,h,i)perylene		↓	↓	↓	↓		
aniline		u	u	u	u		
benzoic acid			149				
benzyl alcohol							
4-chloroaniline							
dibenzofuran							
2-methylnaphthalene							
2-methylphenol							
4-methylphenol							
2-nitroaniline							
3-nitroaniline							
4-nitroaniline							
2,4,5-trichlorophenol		↓	↓	↓	↓		
	UNITS	ug/g	ug/g	ug/g	ug/mL		

Samples diluted in Methylene Chloride

J - Estimated value.
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
NA - Not analyzed.
1/ - Tentative identification.
2/ - On NRDC List of Priority Pollutants.

N.C. Division of Health Services
DHS 3068-0 (4/86 Laboratory)

(3)

STATE LABORATORY OF PUBLIC HEALTH
DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	802398	802399	802402	802403		
	FIELD #	4061	4062	4064	4065		
COMPOUND	TYPE	(3)	(3)	(3)	(3)	( )	( )
	UNITS	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg
N-nitrosodimethylamine	10/330	u	u	u	u		
bis(2-chloroethyl)ether							
2-chlorophenol							
phenol							
1,3-dichlorobenzene							
1,4-dichlorobenzene							
1,2-dichlorobenzene							
bis(2-chloroisopropyl)ether							
hexachloroethane							
N-nitroso-di-n-propylamine							
nitrobenzene							
isophorone							
2-nitrophenol							
2,4-dimethylphenol							
bis(2-chloroethoxy)methane							
2,4-dichlorophenol							
1,2,4-trichlorobenzene							
naphthalene			583				
hexachlorobutadiene			u				
4-chloro-m-cresol							
hexachlorocyclopentadiene							
2,4,6-trichlorophenol							
2-chloronaphthalene							
acenaphthylene							
dimethyl phthalate							
2,6-dinitrotoluene							
acenaphthene			833	330K	330K		
2,4-dinitrophenol	50/1650		u	u	u		
2,4-dinitrotoluene	10/330						
4-nitrophenol	50/1650						
fluorene	10/330		500				
4-chlorophenylphenylether			u				
diethyl phthalate							
4,6-dinitro-o-cresol	50/1650						
diphenylamine							
azobenzene							
4-bromophenylphenylether	10/330						
hexachlorobenzene	10/330						
pentachlorophenol	50/1650						
phenanthrene	10/330	10,000	5,667	1,167	1,000		
anthracene		u	3,000	500	333		
dibutyl phthalate		30,000	u	u	u		
fluoranthene		15,000	10,667	2,000	1,333		

MDL
H_2O/SOIL

RECEIVED
NOV 7 1988
SUPERFUND BRANCH
SOLID WASTE MANAGEMENT SECTION

J - Estimated value.
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit. MDL
NA - Not analyzed.
1/ - Tentative identification.
2/ - On NRDC List of Priority Pollutants.

N.C. Division of Health Services
DHS 3068-0 (4/86 Laboratory)

(4)

STATE LABORATORY OF PUBLIC HEALTH
DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

RECEIVED NOV 7 1988 SOLID WASTE MANAGEMENT SECTION

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	802398	802399	802402	802403		
	FIELD #	4061	4062	4064	4065		
COMPOUND	TYPE	(3)	(3)	(3)	(3)	( )	( )
	UNITS	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	µg/l µg/kg	µg/l µg/
pyrene	10/330	11,667	7,000	1,500	1,000		
benzidine	50/1650	u	u	u	u		
butyl benzyl phthalate	10/330	1,464 ug/g	u	u	u		
benz(a)anthracene	↓	13,333	2,833	1,000	500		
chrysene	↓	15,000	3,333	1,500	667		
3,3-dichlorobenzidine	50/1650	u	u	u	↓		
bis(2-ethylhexyl)phthalate	10/330	16,267 ug/g	↓	↓	↓		
di-n-octyl phthalate	10/330	u	↓	↓	↓		
benzo(b)fluoranthene	50/1650	u	↓	↓	↓		
benzo(k)fluoranthene	↓	121,667	23,167	7,000	2,333		
benzo(a)pyrene	↓	55,000	8,000	3,667	1,667		
indeno(1,2,3-cd)pyrene	↓	u	15,000	9,167	u		
dibenzo(a,h)anthracene	↓	u	u	u	u		
benzo(g,h,i)perylene	↓	80,000	22,167	15,833	u		
aniline	50/1650	u	u	u	u		
benzoic acid	↓	70,000	↓	↓	↓		
benzyl alcohol	↓	u	↓	↓	↓		
4-chloroaniline	10/330	↓	↓	↓	↓		
dibenzofuran	↓	↓	417	↓	↓		
2-methylnaphthalene	↓	↓	u	↓	↓		
2-methylphenol	↓	↓	↓	↓	↓		
4-methylphenol	↓	↓	↓	↓	↓		
2-nitroaniline	50/1650	↓	↓	↓	↓		
3-nitroaniline	↓	↓	↓	↓	↓		
4-nitroaniline	↓	↓	↓	↓	↓		
2,4,5-trichlorophenol	↓	↓	↓	↓	↓		

MDL
H_2O/SOIL

J - Estimated value.
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit. MDL
NA - Not analyzed.
1/ - Tentative identification.
2/ - On NRDC List of Priority Pollutants.

N.C. Division of Health Services
DHS 3068-0 (4/86 Laboratory)

STATE LABORATORY OF PUBLIC HEALTH
DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

PURGEABLE COMPOUNDS	LAB NO	802394	802395	802396	802397	802398	802399
	FIELD #	4057	4058	4059	4060	4061	4062
COMPOUND	TYPE	(8)	(8)	(6)	(5)	(3)	(3)
	UNITS	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg
chloromethane		u	u	u	u		u
bromomethane							
dichlorodifluoromethane							
vinyl chloride							
chloroethane							
methylene chloride							
trichlorofluoromethane							
ethene, 1,1-dichloro							
ethane, 1,1-dichloro-							
1,2-trans-dichloroethene							
chloroform							
ethane, 1,2-dichloro-							
ethane, 1,1,1-trichloro-							
carbontetrachloride							
bromodichloromethane							
propane, 1,2-dichloro-							
1,3-trans-dichloropropene							
trichloroethylene							
chlorodibromomethane							
benzene							
ethane, 1,1,2-trichloro-							
1,3-cis-dichloropropene							
2-chloroethyl vinyl ether							
bromoform							
ethane, 1,1,2,2-tetrachloro-							
ethene, tetrachloro-							
toluene			82,099	6,588		5	
chlorobenzene			u	u		u	
ethylbenzene			1,025	138		2J	
acetone		u	u	u	u	u	u
2-butanone				20,644			
carbondisulfide				u			
2-hexanone							
4-methyl-2-pentanone			374,535	174			
styrene			u	u			
vinyl acetate							
xylenes (total)			10,207	560		27	
1-butanol	⊕/⊖		⊕	⊕	⊕	⊖	
butyl acetate	⊕/⊖		⊕	⊕	⊕	⊖	

Detection limits raised due to sample type

RECEIVED
NOV 7 1988
SOLID WASTE MANAGEMENT SECTION
SUPERFUND BRANCH

J - Estimated value.
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
NA - Not analyzed.
1/ - Tentative identification.
2/ - On NRDC List of Priority Pollutants.

802395, 802397 → diluted in methanol; high detection limit

N.C. Division of Health Services

DHS 3068-O (4/86 Laboratory)

STATE LABORATORY OF PUBLIC HEALTH
DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

ppm

PURGEABLE COMPOUNDS	LAB NO	802400	802402	802403			
	FIELD #	4063	4064	4065			
COMPOUND	TYPE	(6)	(3)	(3)	( )	( )	( )
	UNITS	µg/l µg/g	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg
chloromethane		u	u	u			
bromomethane							
dichlorodifluoromethane							
vinyl chloride							
chloroethane							
methylene chloride		571					
trichlorofluoromethane		u					
ethene, 1,1-dichloro							
ethane, 1,1-dichloro-							
1,2-trans-dichloroethene							
chloroform							
ethane, 1,2-dichloro-		205					
ethane, 1,1,1-trichloro-		u					
carbontetrachloride							
bromodichloromethane							
propane, 1,2-dichloro-							
1,3-trans-dichloropropene							
trichloroethylene							
chlorodibromomethane							
benzene		100					
ethane, 1,1,2-trichloro-		u					
1,3-cis-dichloropropene							
2-chloroethyl vinyl ether							
bromoform							
ethane, 1,1,2,2-tetrachloro-							
ethene, tetrachloro-							
toluene		54,359					
chlorobenzene		u					
ethylbenzene		1,395					
acetone (+ 1 -)		(++)	u	u			
2-butanone (MEK)		77,923					
carbondisulfide		u					
2-hexanone							
4-methyl-2-pentanone (MIBK)		6,264					
styrene		u					
vinyl acetate							
xylenes (total)		4,661					
other compounds		(++)					

Sample diluted in methanol - amounts reported are estimated

802400

RECEIVED
NOV 7 1988
SUPERFUND BRANCH
SOLID WASTE MANAGEMENT SECTION

J - Estimated value.
K - Actual value is known to be less than value given.
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U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
NA - Not analyzed.
1/ - Tentative identification.
2/ - On NRDC List of Priority Pollutants.

802400 → results reported in ug/g (ppm)

N.C. Division of Health Services

DHS 3068-O (4/86 Laboratory)

DIVISION OF HEALTH SERVICES
SOLI[illegible]ND HAZARDOUS WASTE MANAGEME[illegible]BRANCH

Chain of Custody Record

Hazardous Waste Materials

Location of Sampling: ___ Generator ___ Transporter ___ Treatment Fac
___ Storage Facility ___ Disposal Facility ___ Landfill
✓ Other: Former Furniture Manufacturer

Company's Name FRANKLIN MACHINERY Telephone( ) N/A

Address 1720 1ST Avenue Hickory, NC

Collector's Name Bruce Nicholson (signature) Telephone(919) 733-2801

Date Sampled 29 September 1988 Time Sampled 1 - 3 pm

Type of Process Generating Waste Furniture Manufacturing

Field Information

Field Sample No. 4057 4058 4059 4060 4061 4062 4063
4064 4065

Chain of Possession:

1. Bruce A. Nicholson (signature) Environmental Engineer II (title) 9/29 - 9/30/88 (inclusive dates)

2. ___ signature ___ title ___ inclusive dates

3. ___ signature ___ title ___ inclusive date

Results reported

___ signature ___ title ___ date

Instructions: Complete all applicable information including signatures, and submit with analysis request forms.

C. Department of Human Resources
ision of Health Services

S PLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

e Number 18 D TBA Field Sample Number 4057

me of Site FRANKLIN MACHINERY Site Location Hickory

llected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

pe of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	(#1) Storage Room Residue
___ Surface Water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	✓ Other (8) Residue	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
Arsenic		Arsenic		Silver	
Barium		Barium		Sulfates	
Cadmium		Cadmium		Zinc	
Chromium		Chloride		Ph	
Lead		Chromium		Conductivity	
Mercury		Copper		TDS	
Selenium		Fluoride		TOC	
Silver		Iron			
		Lead			
		Manganese			
		Mercury			
		Nitrate			
		Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		EDB		Methoxychlor	
X Acid:B/N Ext.		PCB's		Toxaphene	
TOX		X Petroleum*		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

Parameter
(MF) Coliform Colonies/100mls
(MPN) Coliform Colonies/100mls

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
Gross Alpha	
Gross Beta	

ate Received ___ Date Reported ___

ate Extracted ___ Date Analyzed ___

eported By ___ Lab Number ___

HS 3191 (Revised 7/85)

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

te Number 18 D TBA Field Sample Number 4058

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	(#2) Mixing Room Residue
___ Surface Water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	✓ Other (8) Residue	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
Arsenic		Arsenic		Silver	
Barium		Barium		Sulfates	
Cadmium		Cadmium		Zinc	
Chromium		Chloride		Ph	
Lead		Chromium		Conductivity	
Mercury		Copper		TDS	
Selenium		Fluoride		TOC	
Silver		Iron			
		Lead			
		Manganese			
		Mercury			
		Nitrate			
		Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		EDB		Methoxychlor	
X Acid:B/N Ext.		PCB's		Toxaphene	
TOX		X Petroleum*		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

Parameter	
(MF) Coliform Colonies/100mls	
(MPN) Coliform Colonies/100mls	

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
Gross Alpha	
Gross Beta	

Date Received ___ Date Reported ___

Date Extracted ___ Date Analyzed ___

Reported By ___ Lab Number ___

DHS 3191 (Revised 7/85)
Lab Hazardous Waste (Review 7/87)

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUES

State Laboratory of Public Healt
P. O. Box 2804
306 N. Wilmington Stre
Raleigh, 2761

te Number 18 D TBA Field Sample Number 4059

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	(#3) RAINWATER IN DRUM
___ Surface Water (2)	✓ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter	
___ (MF) Coliform Colonies/100mls	
___ (MPN) Coliform Colonies/100mls	

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received ___ Date Reported ___

Date Extracted ___ Date Analyzed ___

Reported By ___ Lab Number ___

DHS 3191 (Revised 7/85)

C. Department of Human Resources
vision of Health Services

AMPLE ANALYSES REQUES

State Laboratory of Public Heal
P. O. Box 2804
306 N. Wilmington Stre
Raleigh, 2761

te Number 18 D TBA Field Sample Number 4060

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	✓ Solid (5)(Gel)	(#4) Red Gel Material From Drum
___ Surface Water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received ___ Date Reported ___

Date Extracted ___ Date Analyzed ___

Reported By ___ Lab Number ___

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUEST

State Laboratory of Public Heal
P. O. Box 2804
306 N. Wilmington Stre
Raleigh, 2761

te Number 18 D TBA Field Sample Number 4061

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	(#5) Soil/Residue Composite near drums
___ Surface Water (2)	___ Liquid (6)	
✓ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
Arsenic		Arsenic		Silver	
Barium		Barium		Sulfates	
Cadmium		Cadmium		Zinc	
Chromium		Chloride		Ph	
Lead		Chromium		Conductivity	
Mercury		Copper		TDS	
Selenium		Fluoride		TOC	
Silver		Iron			
		Lead			
		Manganese			
		Mercury			
		Nitrate			
		Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		EDB		Methoxychlor	
X Acid:B/N Ext.		PCB's		Toxaphene	
TOX		X Petroleum*		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

Parameter	
(MF) Coliform Colonies/100mls	
(MPN) Coliform Colonies/100mls	

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
Gross Alpha	
Gross Beta	

Date Received ___ Date Reported ___

Date Extracted ___ Date Analyzed ___

Reported By ___ Lab Number ___

DHS 3191 (Revised 7/85)

C. Department of Human Resources
vision of Health Services

AMPLE ANALYSES REQUES

State Laboratory of Public Heal
P. O. Box 2804
306 N. Wilmington Stre
Raleigh, 2761

te Number 18 D TBA Field Sample Number 4062

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	(#6) Corner Soil Sample
___ Surface Water (2)	___ Liquid (6)	
✓ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received ___ Date Reported ___

Date Extracted ___ Date Analyzed ___

Reported By ___ Lab Number ___

DHS 3191 (Revised 7/85)

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUEST

State Laboratory of Public Healt
P. O. Box 2804
306 N. Wilmington Stre
Raleigh, 2761

te Number 18 D TBA Field Sample Number 4063

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	(#7) Drum Product Sample (Stain)
___ Surface Water (2)	✓ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter	
___ (MF) Coliform Colonies/100mls	
___ (MPN) Coliform Colonies/100mls	

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received ___ Date Reported ___

Date Extracted ___ Date Analyzed ___

Reported By ___ Lab Number ___

DHS 3191 (Revised 7/85)

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUEST

State Laboratory of Public Healt
P. O. Box 2804
306 N. Wilmington Stre
Raleigh, 2761

te Number 18 D TBA Field Sample Number [redacted] 4063

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	#7. Drum Product Sample (Stain?)
___ Surface Water (2)	✓ Liquid (6)	PLEASE HAVE BILL WALKER
___ Soil (3)	___ Sludge (7)	DETERMINE FLASH POINT
___ Other (4)	___ Other (8)	A.S.A.P. Thanks.

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received ___ Date Reported ___

Date Extracted ___ Date Analyzed ___

Reported By ___ Lab Number ___

DHS 3191 (Revised 7/85)

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUEST

State Laboratory of Public Heal
P. O. Box 2804
306 N. Wilmington Stre
Raleigh, 2761

te Number 18 D TBA Field Sample Number 4064

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate
___ Groundwater (1)	___ Solid (5)
___ Surface Water (2)	___ Liquid (6)
✓ Soil (3)	___ Sludge (7)
___ Other (4)	___ Other (8)

Comments: (#8) Composite Surface Soil outside drum area

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received ___ Date Reported ___

Date Extracted ___ Date Analyzed ___

Reported By ___ Lab Number ___

C. Department of Human Resources
vision of Health Services

MPLE ANALYSES REQUEST

State Laboratory of Public Heal
P. O. Box 2804
306 N. Wilmington Stre
Raleigh, 2761

te Number 18 D TBA Field Sample Number 4065

ame of Site FRANKLIN MACHINERY Site Location Hickory

ollected By BRUCE NICHOLSON ID# Superfund Date Collected 9/29/88 Time

ype of Sample:

Environmental	Concentrate	Comments
___ Groundwater (1)	___ Solid (5)	(#9) BACKGROUND SOIL SAMPLE
___ Surface Water (2)	___ Liquid (6)	
✓ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
___ Arsenic		___ Arsenic		___ Silver	
___ Barium		___ Barium		___ Sulfates	
___ Cadmium		___ Cadmium		___ Zinc	
___ Chromium		___ Chloride		___ Ph	
___ Lead		___ Chromium		___ Conductivity	
___ Mercury		___ Copper		___ TDS	
___ Selenium		___ Fluoride		___ TOC	
___ Silver		___ Iron			
		___ Lead			
		___ Manganese			
		___ Mercury			
		___ Nitrate			
		___ Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
X P&T:GC/MS		___ EDB		___ Methoxychlor	
X Acid:B/N Ext.		___ PCB's		___ Toxaphene	
___ TOX		X Petroleum*		___ 2,4-D	
		___ Endrin		___ 2,4,5-TP (silvex)	
		___ Lindane			

MICROBIOLOGY

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

* Petroleum Distillates

RADIOCHEMISTRY

Parameter	Results PCi/1
___ Gross Alpha	
___ Gross Beta	

Date Received ___ Date Reported ___

Date Extracted ___ Date Analyzed ___

Reported By ___ Lab Number ___

DHS 3191 (Revised 7/85)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

APR 11 1989

Mr. Vincent Gallogly
GTE Service Corporation
One Stamford Forum
Stamford Ct. 06904

Re: Southern Desk Cabinet
Hickory, North Carolina

Dear Mr. Gallogly:

This letter is to confirm our telephone conversation of April 11, 1989, where I indicated to you that the work plan which you submitted for the removal action at the Southern Desk Cabinet facility has been approved. In your letter accompanying the work plan, you indicated that upon approval your contractor would be prepared to commence work at the site within one week. I would appreciate you or your consultant, Mr. McCormick of Hart Environmental, notifying me as soon as possible of your removal contractors expected startup date so that I can notify the North Carolina Department of Human Resources of your plans and arrange for my oversite contractor.

Thank you for your consideration. If you have any questions or wish to discuss your removal plans please contact me at 404/347-3931.

Sincerely,

William Klutz

cc: C. Baschon
B. Nicholson

North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

DATE: 5 October 1988

TO: Lee Crosby

FROM: Grover Nicholson

RE: Conversation with Susan Deihl

I spoke with Susan today about several matters.

1. The addition of Southern Desk is approved. The PA can be substituted for Gillcrest Road Drum Midnight Dump.

2. Susan told Jack that she approved one person's attendance at the IH course at Harvard.

3. Update #9 to the NCP included Heavi-Duty, Niagra Pesticide, and Forbush Metals. However, only one site will be chosen per region. Presently, a site in SC is being proposed for Region IV.

4. US EPA Environmental Services Division (ESD) will complete two SSI's per state in Region IV during 4th quarter 1988. The NC sites to be done by ESD are Flanders Filters, NCD 045 922 986, and Torpedo Wire and Strip, NCD 072 028 251.

5. ESD drilling capability may be available to NC staff. Susan said that she would consider getting ESD to install monitoring wells on sites we are doing if needed.

GN:gl

North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

11 October 1988

Mr. Jan Rogers
Emergency Response and Control Section
U.S. environmental Protection Agency
345 Courtland Street
Atlanta, Georgia 30365

RE: Information package on the Southern Desk Site,
Hickory, NC, 28602

Dear Mr. Rogers:

Enclosed please find the site visit report and preliminary assessment for the Southern Desk Site in Hickory, NC. We are requesting an immediate removal action for this site, and a copy of the removal request is also attached.

If you have any questions concerning this site, please call me at (919) 733-2801.

Sincerely,

Bruce Nicholson, Environmental Engineer
Superfund Branch
Solid Waste Management Section

BN/ds/ibm.45

North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

11 October 1988

Mr. Scott Gardner
EPA NC CERCLA Project Officer
EPA Region IV Waste Division
345 Courtland Street, N.E.
Atlanta, GA 30365

RE: Preliminary Assessment
Southern Desk Site
1720 1st Avenue, S.W.
Hickory, NC

Dear Mr. Gardner:

This letter contains the findings of the Preliminary Assessment for the Southern Desk site in Hickory, N.C.

Site Description

The Southern Desk site is a former furniture manufacturing plant located at 1720 1st Avenue S.W. in Hickory, NC. Site coordinates are 81 22' 15" W longitude and 35 43' 48" N latitude (1). The site is located at the western edge of Hickory near the town border between Hickory and Longview, NC. The plant covers an entire city block and is surrounded by a fence. However, there are 5 gates most of which are open and unguarded during business hours. Drums, containing mostly wood stains and finishes are stored on-site inside and outside of plant buildings (2).

Site History

The plant was reportedly built in the 1930's by the Southern Desk Company. In the last twenty years it has been owned by various companies (Drexel Furniture, Champion International, and another unidentified company)(3). However, the most recent owner to use it for furniture manufacturing was GTE Services Corporation, which bought the plant from Champion International in 1976 (4). GTE Services Corporation produced television cabinets on site until 1981. The plant was then closed and remained idle until it was sold to Franklin Machinery Company in 1983 (3,4). The Franklin Machinery Hickory operation sells new and used woodworking machinery, and leases surplus space to other businesses. The owner is Mr. Wayne Franklin who lives in Hampton, Virginia where he operates Franklin Machinery's other plant.

The site was discovered by the Hickory Fire Marshall during a building inspection on November 10, 1987. The Fire Marshall has asked Mr. Franklin to remove the drums but Mr. Franklin claims that they are leftover from GTE Services operation and are not his property. Both GTE Services Corporation and Mr. Franklin had an environmental audit performed at the site but neither has released the audit report (2). The names and addresses of the pertinent parties are below (5):

Mr. Wayne Franklin (current owner)
c/o Franklin Machinery
2506 58th Street
Hampton, Virginia 23661
(804) 826-7300

Mr. Lewis Palmer (Mr. Franklin's on-site employee)
Franklin Machinery
1720 1st Avenue S.W.
Hickory, NC 28602
(704) 324-0884

Mr. Vincent Gallogly, Assistant General Counsel
GTE Services Corporation
1 Stamford Forum
Stamford, CT 06904
(203) 965-2000

Nature of the Hazard

There are two separate areas of the plant where drums are stored:

1. The concrete pad outside the main building in the northwest corner of the site contains 141 55-gallon drums. Most of these drums appear to contain wood stain or finishes. Some drums have leaked their contents but the majority are intact. A sample of product that appeared to be wood stain was taken from a full drum,. Four large above-ground tanks (approximately 8 feet in diameter and 11 feet tall) are adjacent to these drums. The tank drains had minor spills of dried varnish or lacquer in evidence. The tanks are intact and are reportedly empty. Railroad tracks run by the site approximately 50 feet from the drums, and a residential area is adjacent, with the nearest house approximately 50 feet away. Between the railroad tracks an the drums is an area of uniformly dead vegetation (see Figure 1) (2).

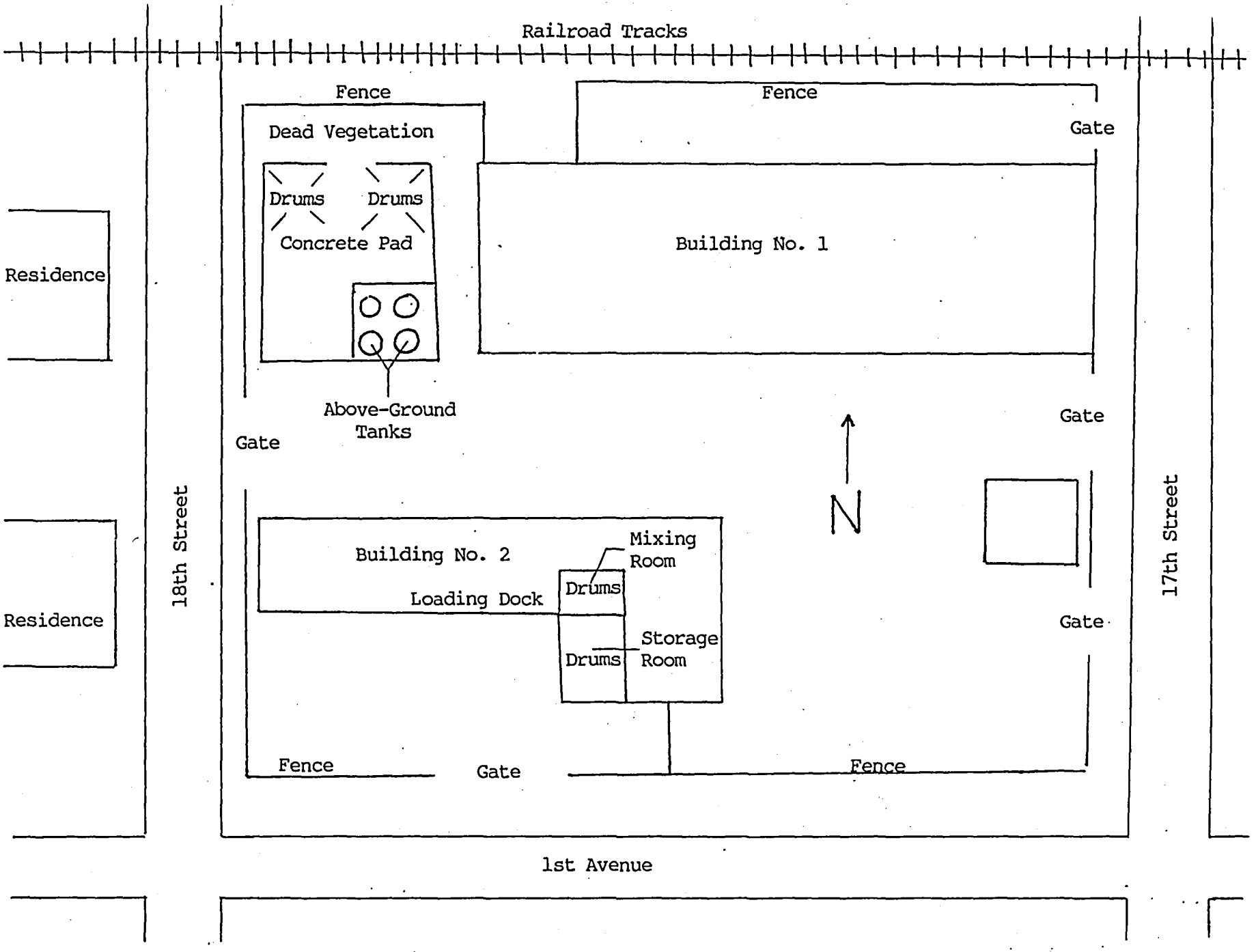

FIGURE 1. SOUTHERN DESK SITE LAYOUT

2. Stain mixing and storage rooms are located inside a second building near a loading dock. A total of 44 55-gallon and 253 5-gallon drums were stored in these rooms. A chemical residue crust from leaking drums had coated the floor in both rooms. Specific labels noted included stains, lacquers, naptha, and flammable liquid warnings. The leaking chemicals had run into the floor drains in both rooms (these drains are connected to the sewer) (2).

In addition, tests of the liquid product in one drum (probably wood stain) indicate that the flash point is < 76 F. Because most of the drums are intact and appear to be filled with a similar liquid product, the site is a considerable fire hazard. The Hickory Fire Marshall concurs with this assessment. The possibility of sparks from the passing trains igniting the dead vegetation near the drums adds to the risk (2).

Groundwater Pathway

Any hazardous material that has leaked from drums on the concrete pad area could run off (or through) the concrete pad, into the soil, and contaminate the groundwater. However, both Hickory and Longview obtain water from Lake Hickory (the Catawba River) and supply residents both inside and outside the city limits (6,7). Even though the site is within the city limits it is likely that a well is located within 1 mile from the site because not all city residents are required to connect to city water. Reportedly, there are some Longview and Hickory residents still using well water (7,8). [Note: Further data on the groundwater targets is being sought from both Hickory and Longview. This information will be added to the file when received, but this report was expedited because of the extreme fire hazard].

The crystalline rock in the entire northwestern section of Catawba County, including the Hickory area, is composite gneiss consisting mainly of the quartz-biotite type. The rocks in most areas of Catawba County are strongly foliated and fractured. Yields from wells in the area range from 5 to 70 gallons per minute (gpm) and are typically 30 gpm. The level of water below ground surface ranges from 10 to 45 feet for wells in the Hickory area (9).

The annual precipitation in the Hickory area averages 44 to 48 inches and the annual lake evaporation is 38 to 40 inches (10). The 24-hour rainfall is approximately 2.9 inches (11). Also, because the storage and mixing room drains are connected to the city sewer system, here is potential for hazardous waste to be discharged to Hickory's sewer system and either of the city's 2 treatment plants (2).

Surface Water Pathway

The site sits in a relatively flat area with an elevation of 1,115 feet (1). Local surface waters include Frye Creek 2,200 feet to the northwest at an elevation of 1,075 feet. This creek flows 1.5 miles to Horseford Creek which flows 1.7 miles to Lake Hickory (the Catawba River above the Oxford Dam). However, the point at which Horseford Creek enters the Catawba River is below the intakes for Hickory and Longview water systems and there are no other intakes on the Catawba within 15 stream miles (12). Horseford Creek is assigned as a class "C" surface water, suitable for secondary recreatin and fish propagation. Lake Hickory is designated as WS-III and "B", and is suitable for water supply, swimming, and other recreation (13).

To the south there is an unnamed intermittent creek 1,300 feet from the site. This flows 0.4 miles to Longview Creek, which flows 1.4 miles to Henry Fork. Henry Fork flows 7.0 miles and enters the South Fork Catawba River. All of these streams are Class "C" waters and do not serve as water supplies (13).

Because the site is in a city location, most of the runoff will be drained to these surface waters via storm sewers.

Recommendation

Because of the extreme fire hazard and the sites proximity to a populated area, the NC Superfund Branch recommends a high priority be assigned for a site investigation. If you have any questions concerning this site please call me at (919) 733-2801.

Sincerely,

Bruce Nicholson

Bruce Nicholson, Environmental Engineer
Superfund Branch
Solid Waste Management Section

BN/ds/ibm.42

References

1. United States Geological Survey Topographical Map (7.5 minute series). Hickory, NC. 1970.

2. Site Visit Report. Southern Desk, Hickory, NC. Bruce Nicholson, NC Superfund Branch, to Susan Diehl, U.S. Environmental Protection Agency. October 5, 1988.

3. Telecon. Bruce Nicholson, NC Superfund Branch, with Bill Yoder, Hickory Fire Marshall. October 4, 1988. History of the Southern Desk Site.

4. Telecon. Bruce Nicholson, NC Superfund Branch, with Nancy Nicosia, GTE Services Corporation, October 11, 1988. History of GTE Services operations at the Southern Desk Site.

5. Telecon. Bruce Nicholson, NC Superfund Branch, with Bill Yoder, Hickory Fire Marshall. September 26, 1988. General information concerning the Southern Desk Site.

6. Telecon. Bruce Nicholson, NC Superfund Branch, with Keith Buff, Plant Supervisor, City of Hickory, NC. October 5, 1988. Information concerning Hickory's water system.

7. Telecon. Bruce Nicholson, NC Superfund Branch, with Robert Glenn, Town Administrator, Longview, NC. October 5, 1988. Information concerning Longview's water system.

8. Telecon. Bruce Nicholson, NC Superfund Branch, with Peggy Huffman, Huffman Well and Piping Company. October 10, 1988.

9. Geology and Ground Water in the Statesville Area, North Carolina (Bulletin No. 68). NC Department of Conservation and Development. February 15, 1954.

10. North Carolina Atlas, Portrait of a Changing State. The University of North Carolina Press, 1975. pp. 144-148.

11. Climatic Atlas of the Unted States. U.S. Department of Commerce, National Climatic Center, Ashville, NC. 1979.

12. Telecon. Bruce Nicholson, NC Superfund Branch, with Tom Spurling, Catawba County Environmental Health Supervisor, October 6, 1988. Water supply of Catawba County communities.

13. Classifications and Water Quality Standards Assigned to the Waters of the Catawba River Basin. NC Department of Natural Resources and Community Development, 1981.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NC	TBA

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Southern Desk	1720 1st Avenue S.W.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Hickory	NC	28602	Catawba	18	10

09 COORDINATES LATITUDE	LONGITUDE
35 43 48 .	081 22 15 .

10 DIRECTIONS TO SITE (Starting from nearest public road)

From Highway 70W turn right on 17th street and proceed ½ mile to intersection of 1st Avenue SW. Site is on NW corner

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Mr. Wayne Franklin	2506 58th Street

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Hampton	VA	23661	(804) 826-7300

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Mr. Lewis Palmer	1720 1st Avenue S.W.

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
Hickory	NC	28602	(704) 324-0884

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES DATE 09 / 28 / 88 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)

CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)

☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1930's (BEGINNING YEAR) / 1983 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Over 200 drums of stains, laquers, and finishes from former furniture manufacturing operations on site

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Fire and/or explosion hazard. Flash point of material in drum $\leq 76^{\circ}$ F. Fire Marsahll certifies extreme fire hazard.

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)

☒ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Bruce Nicholson	NC DHR/DHS Superfund Branch	(919) 733-2801

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Bruce Nicholson	NC DHR/DHS	Superfund Branch	(919) 733-2801	10 / 11 / 88 (MONTH DAY YEAR)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NC	TBA

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES *(Check all that apply)*

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS
- ☒ D. OTHER Residue *(Specify)*

02 WASTE QUANTITY AT SITE *(Measures of waste quantities must be independent)*

TONS _____

CUBIC YARDS 208

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS *(Check all that apply)*

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☒ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
- ☒ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	208	Drums	Flash point one drum ≤ 76 °F
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	Wood stains/lacquers		Drums		

V. FEEDSTOCKS *(See Appendix for CAS Numbers)*

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

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

NC DHR/DHS Superfund Branch files

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NC	TBA

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE: ____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 1000 — 04 NARRATIVE DESCRIPTION

Population affected is limited by the number of people in Hickory and Longview, NC, that are using private wells. These cities use an inaffected surface water supply but residents are not required to connect to the municipal water system.

01 [X] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: ____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

Recreational uers of Frye Creek, the Catawba River, or Henry Fork are potentially affected.

01 [ ] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE: ____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

01 [X] D. FIRE/EXPLOSIVE CONDITIONS — 02 [X] OBSERVED (DATE: 9-29-88) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Approximately 15,000 within 2 miles — 04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE: ____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL — 02 [ ] OBSERVED (DATE: ____) — [X] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: 1 (Acres) — 04 NARRATIVE DESCRIPTION

Potential for leaking drums to contaminate soil on site

01 [X] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: ____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

see groundwater contamination above

01 [X] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: ____) — [X] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

Fire and explosion hazard

01 [X] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: ____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

Fire and explosion hazard

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NC	TBA

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Area of dead vegetation adjacent to concrete pad where drums rest.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/runoff/standing liquids/leaking drums)* — 02 ☒ OBSERVED (DATE: 9-29-88) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Drums exposed to elements, some are leaking, all are corrided to some degree.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Fire and explosion hazard.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Floor drains in storage and mixing rooms where drums are located are connected to to city sewer system.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

The generator of the waste is probably GTE Services Corporation. They were the last site owner to use the facility as a furniture manufacturing plant. GTE Services Corp. sold the plant to Mr. Wayne Franklin in 1983.

GTE Services Corp.
1 Stamford Forum
Stamford, CT 06904

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

NC DHR/DHS Superfund Branch Files

North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

7 October 1988

Mr. Robert Jourdan, Chief
Emergency Response and Control Section
U.S. Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, GA 30365

SUBJECT: Immediate Removal Request for the Southern Desk Site
Hickory, Catawba County, NC

Dear Mr. Jourdan:

We are requesting an immediate removal action for the Southern Desk site in Hickory, NC. The Southern Desk site is a former furniture manufacturing plant located at 1720 First Avenue, S.W. in Hickory. Drums are located inside and outside the facility buildings. Suspected contents of the drums are old wood stain, lacquer and finishes. Tests on a sample of the liquid product in one drum have shown that the flash point is $\leq$ 76 F. Laboratory analyses of the sample from this drum show the following:

Methylene chloride	571 ppm
1,2-Dichloroethane	205 ppm
Toluene	54,359 ppm
Methyl ethyl ketone	72,923 ppm
Methyl isobutyl ketone	6,264 ppm
Total xylenes	4,661 ppm
Benzene	100 ppm
Ethyl benzene	1,395 ppm

The concrete pad outside the main building contains 141 55-gallon drums. Most of these drums appear to contain wood stain or finishes. Some drums have leaked contents but the majority are intact. Another 44 55-gallon and 253 5-gallon drums are located in former stain mixing and storage rooms. A chemical residue crust from leaking drums had coated the floor in both rooms. Specific labels noted include stains, lacquers, naptha, and flammable liquid warnings. The leaking chemicals had run into the floor drains in both rooms (these drains are connected to the sewer). Railroad tracks run by the site approximately 50 feet from the drums on the concrete pad, and a residential area is adjacent with the nearest house approximately 50 feet away.

These drums present fire hazard and should be removed as soon as possible. The Hickory Fire Marshall concurs with the assessment. A preliminary assessment, trip report and laboratory results have been forwarded to Jan Rogers. If you have any questions, please call me at (919) 733-2801.

Sincerely,

Lee Crosby

Lee Crosby, Head
Superfund Branch
Solid Waste Management Section

LC/ds/ibm.36

DATE: October 11, 1988

FROM: Bruce Nicholson

TO: Southern Desk File

SUBJECT: Telecon with Nancy Nicosia, Legal Assistant, GTE Services Corporation, (203) 965-2448, concerning history of the GTE Services Plant in Hickory, NC.

Ms. Nicosia provided the following information concerning the GTE Service Corporation's ownership of the Southern Desk site:

October, 1976 - GTE Services Corporation purchased the site from Champion International

August 5, 1983 - Purchase Agreement is signed by Mr. Wayne Franklin

June 29, 1984 - The property was deeded to Mr. Wayne Franklin

Concerning the request for the Hart Environmental Audit of the site, Ms. Nicosia said that Mr. Bennett Stein (Mr. Franklin's Attorney) had released that report to an environmental agency already, and the GTE Attorney had no problem with him releasing us a copy.

BN/ds/ibm.43

North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

11 October 1988

Mr. Jan Rogers
Emergency Response and Control Section
U.S. environmental Protection Agency
345 Courtland Street
Atlanta, Georgia 30365

RE: Information package on the Southern Desk Site,
Hickory, NC, 28602

Dear Mr. Rogers:

Enclosed please find the site visit report and preliminary assessment for the Southern Desk Site in Hickory, NC. We are requesting an immediate removal action for this site, and a copy of the removal request is also attached.

If you have any questions concerning this site, please call me at (919) 733-2801.

Sincerely,

Bruce Nicholson, Environmental Engineer
Superfund Branch
Solid Waste Management Section

BN/ds/ibm.45

DATE: October 10, 1988

FROM: Bruce Nicholson

TO: Southern Desk Files

SUBJECT: Telecon with Mrs. Peggy Huffman, Huffman Well and Piping Company, (704) 327-3567

Mrs. Huffman indicated there were numerous wells inside the town of Longview and a few in Hickory. In her opinion, there was at least one well, probably more, within 1 mile of the Hickory/Longview border.

BN/ds/ibm.43

North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

7 October 1988

Mr. Robert Jourdan, Chief
Emergency Response and Control Section
U.S. Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, GA 30365

SUBJECT: Immediate Removal Request for the Southern Desk Site
Hickory, Catawba County, NC

Dear Mr. Jourdan:

We are requesting an immediate removal action for the Southern Desk site in Hickory, NC. The Southern Desk site is a former furniture manufacturing plant located at 1720 First Avenue, S.W. in Hickory. Drums are located inside and outside the facility buildings. Suspected contents of the drums are old wood stain, lacquer and finishes. Tests on a sample of the liquid product in one drum have shown that the flash point is $\leq$ 76 F. Laboratory analyses of the sample from this drum show the following:

Methylene chloride	571 ppm
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Total xylenes	4,661 ppm
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Ethyl benzene	1,395 ppm

The concrete pad outside the main building contains 141 55-gallon drums. Most of these drums appear to contain wood stain or finishes. Some drums have leaked contents but the majority are intact. Another 44 55-gallon and 253 5-gallon drums are located in former stain mixing and storage rooms. A chemical residue crust from leaking drums had coated the floor in both rooms. Specific labels noted include stains, lacquers, naptha, and flammable liquid warnings. The leaking chemicals had run into the floor drains in both rooms (these drains are connected to the sewer). Railroad tracks run by the site approximately 50 feet from the drums on the concrete pad, and a residential area is adjacent with the nearest house approximately 50 feet away.

These drums present fire hazard and should be removed as soon as possible. The Hickory Fire Marshall concurs with the assessment. A preliminary assessment, trip report and laboratory results have been forwarded to Jan Rogers. If you have any questions, please call me at (919) 733-2801.

Sincerely,

Lee Crosby

Lee Crosby, Head
Superfund Branch
Solid Waste Management Section

LC/ds/ibm.36

DATE: October 6, 1988

FROM: Bruce Nicholson

TO: Southern Desk File

SUBJECT: Telecon with Tom Spurling, Environmental Health Supervisor Catawba County, (704) 464-7880

I told Mr. Spurling I was aware that Hickory and Longview obtain water from Lake Hickory (Catawba River). Mr. Spurling provided the following information concerning the water supplies of other towns in Catawba County.

Conover - Purchases water from Hickory.
Claremont - Has wells which are supplemented by purchasing water from Hickory.
Catawba - Obtains water from wells only.

He knows of no other towns in Catawba, Alexander, or Iredell counties that draw water from the Catawba River.

BN/ds/ibm.42

North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

October 5, 1988

Ms. Susan Deihl
EPA NC CERCLA Project Officer
EPA Region IV Waste Division
345 Courtland Street, N.E.
Atlanta, GA 30365

SUBJECT: Site Visit to Southern Desk, Hickory, NC

Dear Ms. Deihl:

The Southern Desk site is a former furniture manufacturing plant in Hickory, NC. Drums, suspected to contain old wood stain, lacquers, and finishes, remain on site both inside and outside of facility buildings. These drums present a fire hazard and should be removed as soon as possible.

The facility is located at 17th St. and 1st Avenue S.W. in central Hickory (population approximately 21,000). The plant consists of two large 3 story buildings surrounded by a fence with 5 different entrance gates (4 of which were open during our visit). The plant was reportedly built in the 1930's by the Southern Desk Company which used it as a hardwood office furniture production plant until about 3 or 4 years ago when it was purchased by GTE Services Corporation to produce television cabinets. GTE Services Corporation recently sold the facility to the current owner, Mr. Wayne Franklin. Mr. Franklin rents portions of the facility to various tenants who use it for storage, as a machine shop for woodcarving, or other purposes.

The site was discovered by Bill Yoder, the Hickory Fire Marshall, during a building inspection in November, 1987. On November 10, 1987, Mr. Yoder drafted letters to the current owner, Mr. Wayne Franklin, and the previous owner, GTE Services Corporation, in an attempt to have the drums removed. He got no response and wrote follow-up correspondence in February, 1988.

At that time, GTE Services Corporation notified him that they had contracted Hart Environmental Management to perform an audit on the substances at the plant and that they would inform Mr. Yoder of the results. Mr. Yoder has yet to receive the Hart report or its results from GTE. Mr. Franklin also has a copy of this report and has stated he will send us one as well.

On September 29, 1988, Mr. Jack Butler, Mr. Ed Wallingford, Mr. David Lilley, and myself visited the Southern Desk Facility in Hickory. Mr. Bill Yoder, Hickory Fire Marshall, and Mr. Joe Lynn, Sanitarian for Catawba County Health Department, were also present. There are 2 major drum storage areas.

1. The concrete pad outside the main building in the northwest corner of the site contains 141 55-gallon drums. Most of these drums appear to contain wood stain or finishes. Some drums have leaked their contents but the majority are intact. A sample of product that appeared to be wood stain was taken from a full drum. Four large above-ground tanks (approximately 8 feet in diameter and 11 feet tall) are adjacent to these drums. The tank drains had minor spills of dried varnish or lacquer in evidence. The tanks were intact and sounded empty when tapped. Railroad tracks run by the site approximately 50 feet from the drums, and a residential area is adjacent, with the nearest house approximately 50 feet away. Between the railroad tracks an the drums is an area of uniformly dead vegetation.

2. Stain mixing and storage rooms are located inside a second building near a loading dock. A total of 44 55-gallon and 253 5-gallon drums were stored in these rooms. A chemical residue crust from leaking drums had coated the floor in both rooms. Specific labels noted included stains, lacquers, naptha, and flammable liquid warnings. The leaking chemicals had run into the floor drains in both rooms (these drains are connected to the sewer).

   The following samples were taken:

   - Chemical residue from the storage and mixing room floors.
   - VOA samples from what appeared to be rainwater in the drums on the concrete pad.
   - A red gel material oozing from one drum on the concrete pad.

- Composite soil/residue from the base of many drums on the concrete pad.
- Liquid product from one drum on the concrete pad that appeared to be wood stain.
- Soil sample from 1 to 4 inches from a depression in the corner of the concrete pad approximately 10 feet from the nearest drums.
- A composite soil sample from an area devoid of vegetation between the concrete pad and the fence line.
- A background soil sample across the street from the facility.

Organic analysis results are pending on all samples. In addition, tests of the liquid product in one drum (probably wood stain) indicate that the flash point is < 76 F. Because most of the drums are intact an appear to be filled with a similar liquid product, the site is a considerable fire hazard. The Hickory Fire Marshall concurs with this assessment. The possibility of sparks from the passing trains igniting the dead vegetation near the drums adds to the risk. Because of the fire hazard and the site's proximity to a residential area, the drums should be removed as soon as possible.

If you have any questions please call me at (919) 733-2801.

Sincerely,

Bruce Nicholson

Bruce Nicholson, Environmental Engineer
Superfund Branch
Solid Waste Management Section

BN/ds/ibm.33

DATE: October 5, 1988

FROM: Bruce Nicholson

TO: Southern Desk Files

SUBJECT: Telecon with Keith Buff, Plant Supervisor, Town of Hickory, (704) 322-2605

Mr. Buff said all of Hickory's water was drawn from Lake Hickory (the Catawba River above the Oxford Dam). The intake is located 300 to 400 yards below the Highway 321 Bridge. Mr. Buff said there are 11,000 connections on the city water system and the city estimates the city population has risen from 21,000 in 1980 to 26,000 or 27,000 today. I asked Mr. Buff if the water distribution system had any major additions since 1982 (the date of the water map on file). Mr. Buff indicated the only major change he knew of is that a water line was extended along Highway 127 south to the Mountain View area (1 1/2 miles past the Mountain View School).

Concerning the town of Longview which borders Hickory on the West, Mr. Buff said that they also draw their water from Lake Hickory with an intake located approximately 400 yards above the Highway 321 bridge. For more information on the Longview system he referred me to Mr. Robert Glenn, Town Administrator of Longview, (704) 322-5919.

BN/ds/ibm.40

DATE: October 5, 1988

FROM: Bruce Nicholson

TO: Southern Desk Files

SUBJECT: Telecon with Robert Glenn, Town Administrator
Longview, NC, (704) 322-5919

Mr. Glenn confirmed that Longview's water supply is Lake Hickory and that the intake is approximately 400 yards above the Highway 321 Bridge. The water system has 1750 connections, and Longview's population is estimated to be 4,030. Mr. Glenn also indicated that the cast majority of residents in the town were connected, but some were still on wells.

BN/ds/ibm.41

North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

DATE: 5 October 1988

TO: Lee Crosby

FROM: Grover Nicholson

RE: Conversation with Susan Deihl

I spoke with Susan today about several matters.

1. The addition of Southern Desk is approved. The PA can be substituted for Gillcrest Road Drum Midnight Dump.

2. Susan told Jack that she approved one person's attendance at the IH course at Harvard.

3. Update #9 to the NCP included Heavi-Duty, Niagra Pesticide, and Forbush Metals. However, only one site will be chosen per region. Presently, a site in SC is being proposed for Region IV.

4. US EPA Environmental Services Division (ESD) will complete two SSI's per state in Region IV during 4th quarter 1988. The NC sites to be done by ESD are Flanders Filters, NCD 045 922 986, and Torpedo Wire and Strip, NCD 072 028 251.

5. ESD drilling capability may be available to NC staff. Susan said that she would consider getting ESD to install monitoring wells on sites we are doing if needed.

GN:gl

RECORD OF COMMUNICATION

☐ PHONE CALL ☐ DISCUSSION ☑ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY)

(Record of item checked above)

TO: Doug Holyfield

FROM: Gary Foy

DATE: 10-4-88

TIME:

SUBJECT: Old Southern Desk Building formerly housing Southern Cabinet, a GTE company, 1st Ave. SW, Hickory, N.C. → Old Drums

SUMMARY OF COMMUNICATION

On 10-4-88, I visited Old Southern Desk Building located on 1st. Ave. SW., Hickory, N.C. which had abandoned drums of chemicals left behind.
The last facility which had the chemicals appears to have been Southern Cabinet Co., a GTE Company, which use to make wooden furniture cabinets for TV's.
The GTE Company sold the building to a man in Virginia and the man has leased part of the building complex to several small businesses.
At the 18th St. SW. & Main Ave SW. Corner at the back of the building, there are ~147 drums (55 gal. size) which are rusting, leaking (some but not all), damaged. These drums are on a concrete slab but it drains to one side where the concrete ends.
Also next to the drums are four (4) ~10,000 gallon tanks which may still have materials in them but could not determine but could detect solvent odor near tanks.
The tanks had the following markings on front of tank from wall: "Low Sheen Fac - High Sheen Fac - Sealer - Thinner".

[redacted]

In the front of the building next to 1st Ave. SW and 18th St. S.W. Corner building, a paint shop mixing room is there with abandon drums of chemical, 5 gal buckets and 5 mixing Vats with some chemicals in them. The mixing room is a mess with leaking buckets. In mixing room there were about 75 - 5 gal size buckets of materials, 4 drums (55 gal size) of chemicals, and 5 mixing vats with some chemicals in them.

INFORMATION COPIES TO: Gary Babb
CERCLAV

Over → See page #2

EPA Form 1300 6 (7-72)

RECORD OF COMMUNICATION

☐ PHONE CALL ☐ DISCUSS ☑ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY)

Page 2

(Record of item checked above)

TO: Doug Holyfield

FROM: Larry Tot

DATE: 10-4-88

TIME:

SUBJECT: Old Southern Desk Building Continued

SUMMARY OF COMMUNICATION

Also 2 drums (55 gal size) are located in front of building next to fence on 1st Ave. S.W. but it appears that only one (1) has about 1/2 full of unknown chemical in it.

Also 2 drums (2) (30 gallon size) are located in old boiler room (East side). Appears to be boiler chemicals but not sure.

The 147 drums are located next to road on 18th St S.W. and are only about 50 feet from 3 houses and 2 houses beside house on Main Ave S.W.

Over → Continued on Page #3 →

CONCLUSIONS, ACTION TAKEN OR REQUIRED

The drum site is a hazardous condition which should be corrected as quickly as possible due to conditions of drums and the close distance to the highway (~15 feet) and to the 5 houses in area.

INFORMATION COPIES

TO: Gary Babb

EPA Form 1300-6 (7-72)

RECORD OF COMMUNICATION

☐ PHONE CALL ☐ DISCUSSION ☑ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY)

Page 3

(Record of item checked above)

TO: Doug Holyfield

FROM: Larry Fox

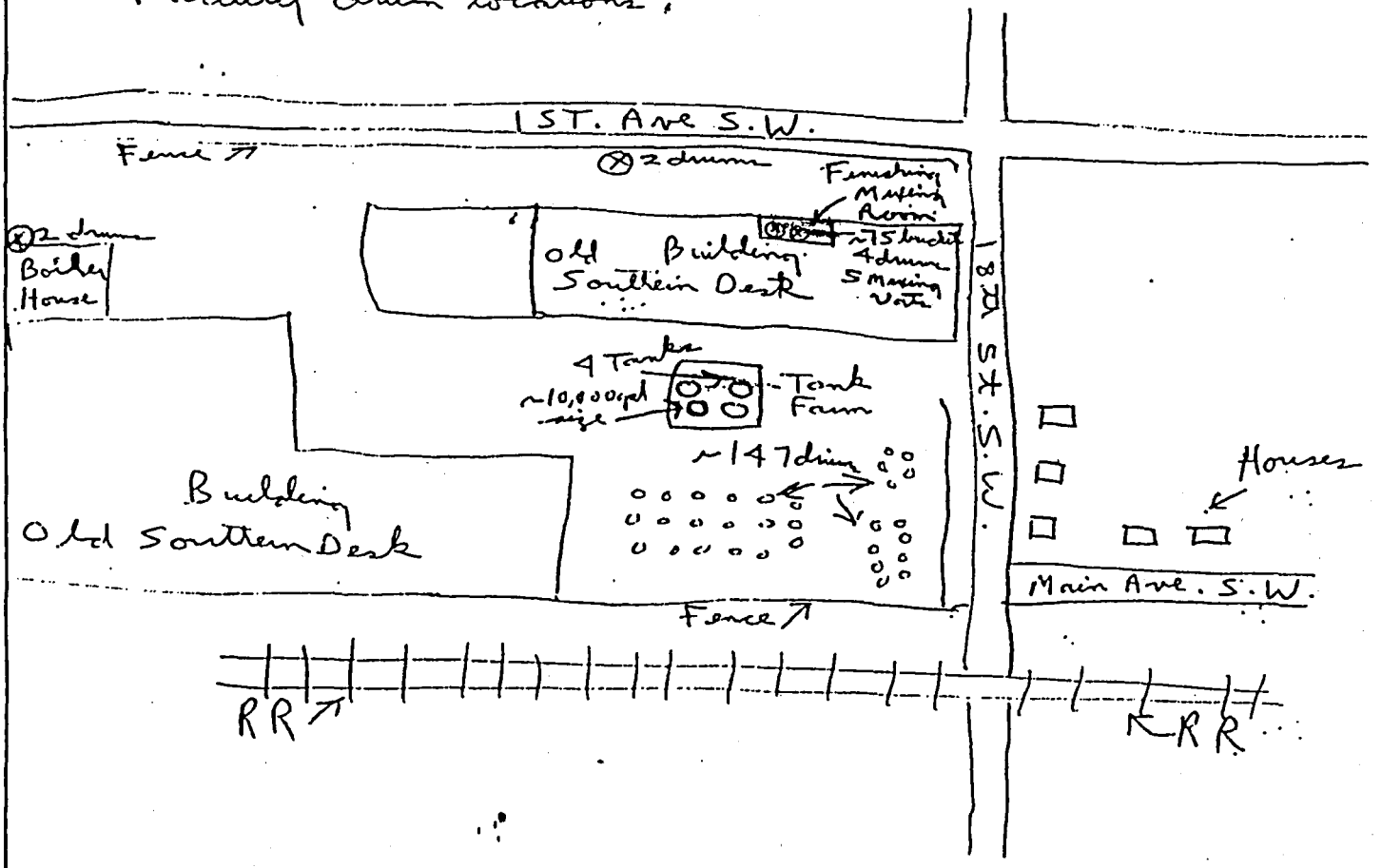
DATE: 10-4-88

TIME:

SUBJECT: Old Southern Desk Building Continued.

SUMMARY OF COMMUNICATION

Facility drum locations;



CONCLUSIONS, ACTION TAKEN OR REQUIRED

INFORMATION COPIES TO:

EPA Form 1300-6 (7-72)

DATE: October 04, 1988

FROM: Bruce Nicholson

TO: Southern Desk File

SUBJECT: Telecon with Bill Yoder, Hickory Fire Marshall, (704) 324-6479, concerning the history of the site

Mr. Yoder had researched the buildings history through a former Southern Desk employee and discovered the following:

The plant was built by Southern Desk in the 1930's and was owned and operated by them until about 20 years ago when Drexel Furniture took over. After an unspecified time, Champion International bought and operated the plant. Then a company called Dominic or something similar (the employee could not recall the exact name) operated on site. GTE Services Corporation then took over until Mr. Franklin bought the plant from them.

What Mr. Yoder recalls personally is that GTE Services was operating it when he came to Hickory in 1980 (he does not know how long they had it before that). They were making television cabinets on site and he responded to frequent dust fires there. About 1981, the plant was closed and it sat idle until about 1983 (he was not sure of the exact date) when Mr. Franklin purchased it.

BN/ds/ibm.44

SOUTHERN DESK SITE COORDINATES

2' 30" on topo map = 192 mm

1' = 76.8 mm

1" = 1.28 mm

0.0430' = 1 mm

0.78125 = 1 mm

Longitude

81° 22' 30" W − 19 mm = 81° 22' 30" − 15" =

81° 22' 15" W

Latitude

35° 45' 00" − 92 mm = 35° 45' 00" − 72"

= **35° 43' 48" N**

DATE: September 30, 1988

TO: Lee Crosby

FROM: Bruce Nicholson

SUBJECT: Southern Desk Site Visit

On September 29, 1988, Mr. Jack Butler, Mr. Ed Wallingford, Mr. David Lilley, and myself visited the Southern Desk Facility in Hickory. Mr. Bill Yoder, Hickory Fire Marshall, and Mr. Joe Lynn, Sanitarian for Catawba County Health Department, were also present. There are 2 major drum storage areas.

1. The concrete pad outside the main building contains 141 55-gallon drums. Most of these drums appear to contain wood stain or finishes. Some drums have leaked their contents but the majority are intact. A sample of product that appeared to be wood stain was taken from a full drum. Four large above-ground tanks (8' diameter, 11' tall) are adjacent to these drums. The tank drains had minor spills of dried varnish or lacquer in evidence. The tanks were intact and sounded empty when tapped. Railroad tracks ran by the site approximately 50 feet from the drums and a residential area was adjacent with the nearest house approximately 75 feet. away.

2. Stain mixing and storage rooms are located inside a second building near a loading dock. A total of 44 55-gallon and 253 5-gallon drums were stored in these rooms. A chemical residue crust from leaking drums had coated the floor in both rooms. Specific labels noted included stains, lacquers, naphtha, and flammable liquid warnings. The leaking chemicals had run into the floor drains in both rooms (these drains are connected to the sewer).

Because of extreme fire hazard, imminent public health risk may exist at this site, and a request for an immediate removal considered. The preliminary HRS score for fire and explosion hazard is 20.8.

BN/ds/ibm.31

North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

27 September 1988

Ms. Susan Deihl
NC CERCLA Project Officer
Region IV Waste Division
345 Courtland Street, N.E.
Atlanta, GA 30365

SUBJECT: CERCLIS Site Addition
Southern Desk
1720 First Ave., S.W.
Hickory, NC 28601

Dear Ms. Deihl:

Please add the subject site to CERCLIS. Site specifics are as follows:

Site Name:	Southern Desk
Address:	1720 First Ave., S.W., Hickory, NC 28601
Location:	The N.W. corner of the intersection of First Ave. S.W. and 17th. Street in Hickory.
County:	Catawba
County Code:	18
Congressional District:	10
Contact Person:	Bruce Nicholson
Site Discovery Date:	16 September 1988

This site, once used as a furniture manufacturing facility, holds approximately 150 55-gallon drums and some tanks which are suspected to contain waste wood stains and finishes. The drums and tanks were apparently abandoned on-site when Southern Desk moved from the property.

Once the site is added, a Preliminary Assessment will be completed during the fourth quarter of 1988. This PA will be substituted for the PA on Gillcrest Road Drum Midnight Dump NCD 981929243, which will be moved into the first quarter of 1989.

If you have any questions, please contact Grover Nicholson or me.

Sincerely,

Lee Crosby

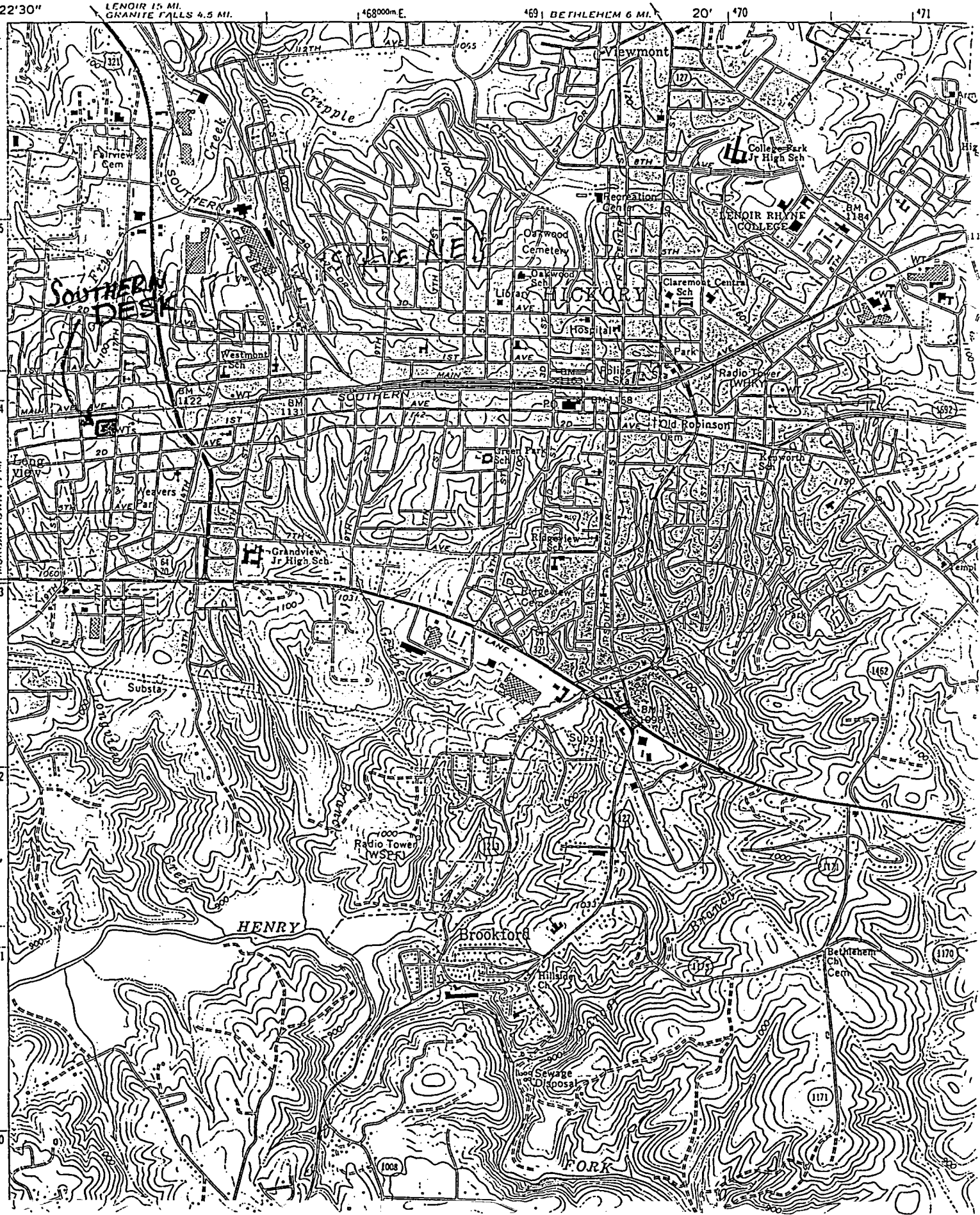
Lee Crosby, Head
Superfund Branch
Solid Waste Management Section

LC/GN/pb/3

Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE
DEPARTMENT OF N
RAL



SOUTHERN DESK

SITE SAFETY PLAN

A. GENERAL INFORMATION

Site Name Southern Desk Plant EPA ID # TBA
Location Corner of 17th Street and 1st Ave. SW Date 9-27-88
Hickory, NC

Purpose of Visit ____ PA X SI ____ Other

Proposed Date of Inspection 9/29/88
Date of Briefing 9/27/88

Priority Ranking ____ Low X Medium ____ High

Site Investigation Team

Personnel	Responsibilities
Bruce Nicholson	Team Leader, Sampling
Jack Butler	Sampling
David Lilley	Observer
Ed Wallingford	Sampling

PLAN PREPARATION:
Prepared By David B. Lilley David Lilley, Industrial Hygienist
Reviewed By Jack Butler Jack Butler, Environmental Engineer

B. SITE/WASTE CHARACTERISTICS

Waste Type(s) X Liquid ____ Solid X Sludge ____ Gas

Characteristics ____ Corrosive X Ignitable ____ Radioactive
X Volatile X Toxic ____ Reactive ____ Other

List Known or Suspected Hazards (physical,chemical biological or radioactive) on Site and their toxicological effects. Also, if known, list chemical amounts

HAZARD	EFFECT(S)
Formaldehyde	TLV = 1ppm
Acetone	TLV = 750ppm
Methyl Isobutyl Ketone	TLV = 50ppm
Methyl Ethyl Ketone	TLV = 200ppm
Toluene	TLV = 100ppm
Xylene	TLV = 100ppm
VM & P Naphtha	TLV = 300ppm
Butyl acetate	TLV = 150-200ppm

EPA ID # TBA

Facility Description: Size 3 floors Buildings 1

Disposal Methods Being Investigated Spillage and residue around drum and tank areas

Unusual Features on Site (dike integrity, power lines, terrain etc.):
Storage room ceiling leaked, caused drums inside to corrode

History of the Site: The building is a large 3 story manufacturing facility built around 1930. Southern Desk used it as a hardwood office furniture production plant until about 3 or 4 years ago when GTE/Sylvania purchased it. GTE/Sylvania used the plant to produce television cabinets. GTE sold the facility to the current owner, Mr. Wayne Franklin. Mr. Franklin rents portions of the facility to various tenants who use it for storage, as a machine shop for woodcarving, or other purposes. Mr. James estimated that half of the building is rented and the other half is unused.

C. HAZARD EVALUATION

Inhalation hazard from leaking drums and/or tanks may be present, especially when conducting surveys inside the building or down wind of the storage site. Breathing zone samples will be taken using the HNU during the initial walk thru and while sampling. Respirators with organic cartridges will be worn during the initial walk thru. If the HNU reading is greater than the 50ppm, respirators will be worn during the remainder of the survey. If levels greater than 100ppm are encountered, the site will be vacated. Boots will be worn on site during the initial walk thru. Gloves, goggles, and protective suits will be worn while collecting and preparing samples.

D. WORK PLAN INSTRUCTION

Map or Sketch Attached? Yes
Perimeter Identified? No
Command Post Identified? No
Zones of Contamination Identified? No

*Initially, if HNU readings are below 50ppm, level D protection may be used.

Personal Protective Equipment

Level of Protection ___ A ___ B X C* X D

Modifications Gloves, goggles, and protective suits are to be worn while collecting and preparing samples.

EPA ID # TBA

Surveillance Equipment:

X	H Nu		Detector Tubes and Pumps
	Explosimeter		O2 Meter
	TLD		(Radiation Monitor)

Decontamination Procedures

____ Level A Segregated equipment drop, boot cover and glove wash, boot cover and glove rinse, tape removal, suit and hard hat removal, SCBA backpack removal, inner glove wash, inner glove removal, inner clothing removal, field wash, redress

____ Level B Segregated equipment drop, boot cover and glove wash,boot cover and glove rinse, tape removal. boot cover removal outer glove removal, suit/safety removal, SCBA backpack removal, inner glove wash, inner glove rinse, facepiece removal, inner glove removal, inner clothing removal, field wash, redress.

X Level C Respirator wash, respirator removal, suit wash (if needed), suit removal, boot wash, boot removal and glove removal.

X Level D Boot wash and rinse and boot removal, suit removal, glove and goggle removal.

Modifications _____

Work Schedule/ Limitations Samples to be taken: surface residue, surface soil, contents of drum (if drums are open).

EMERGENCY PRECAUTIONS

Route of Exposure	First Aid
Eyes	irrigate immediately
Skin	soap and water wash
Inhalation	fresh air, ariticial resp. if needed
Ingestion	medical attention

EPA ID # TBA

Hospital (Address and Phone Number)
Frye Regional Medical Center 420 North Center Street, Hickory, NC 28601
(704) 322-6070

Emergency Transportation Systems (Phone Numbers)

Fire use 911

Ambulance use 911

Rescue Squad use 911

Emergency Route to Hospital travel east on 1st Avenue approximately 14 blocks, turn left (North) on North Center Street, travel approximately 4 blocks, hospital on left

PREVAILING WEATHER CONDITIONS AND FORECAST Partly cloudy, winds unknown, high in upper 70's.

EQUIPMENT CHECKLIST

X	Air purifying respirator	X	First Aid Kit
X	Cartridges for respirator	X	3 gal. Distilled H20
	3M 8710 Respirator	X	Personal Protective Clothing
	02 Indicator		
	Detector Tube & Pump	X	Boots or Boot Covers
X	Eye Wash Unit	X	Coveralls (tyvek)
X	H Nu	X	Eye Protection
	pH Meter	X	Hard Hat
	Explosimeter	X	Decontamination Materials.
	Radioactive Monitor		

Poison Control Center - State Coordinator
Duke University Medical Center
Telephone: 1-800-672-1697
Box 3024
Durham, NC 27710

ASHEVILLE 704-255-4490	Western NC Poison Control Center Memorial Mission Hosp. 509 Biltmore Ave. 28801	HENDERSONVILLE 704-693-6522 Ext. 555, 556	Margaret R. Pardee Memorial Hospital Fleming St., 28739
CHARLOTTE 704-379-5827	Mercy Hospital 2001 Vail Ave, 28207	HICKORY 704-322-6649	Catawba Mem. Hosp. Fairgrove Chur. Rd 28601
DURHAM 1-800-672-1697	Duke Univ Medical Center Box 3007, 27710	JACKSONVILLE 919-577-2555	Onslow Mem. Hospital Western Blvd. 28540
GREENSBORO 919-379-4105	Moses Cone Hospital 1200 N. Elm St, 27420	WILMINGTON 919-343-7046	New Hanover Mem. Hospital 2131 S. 17th St, 28401

1-800-722-2222

CERCLA/MG/7-85/Revised 5-87
Form 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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DEPARTMENT OF NA
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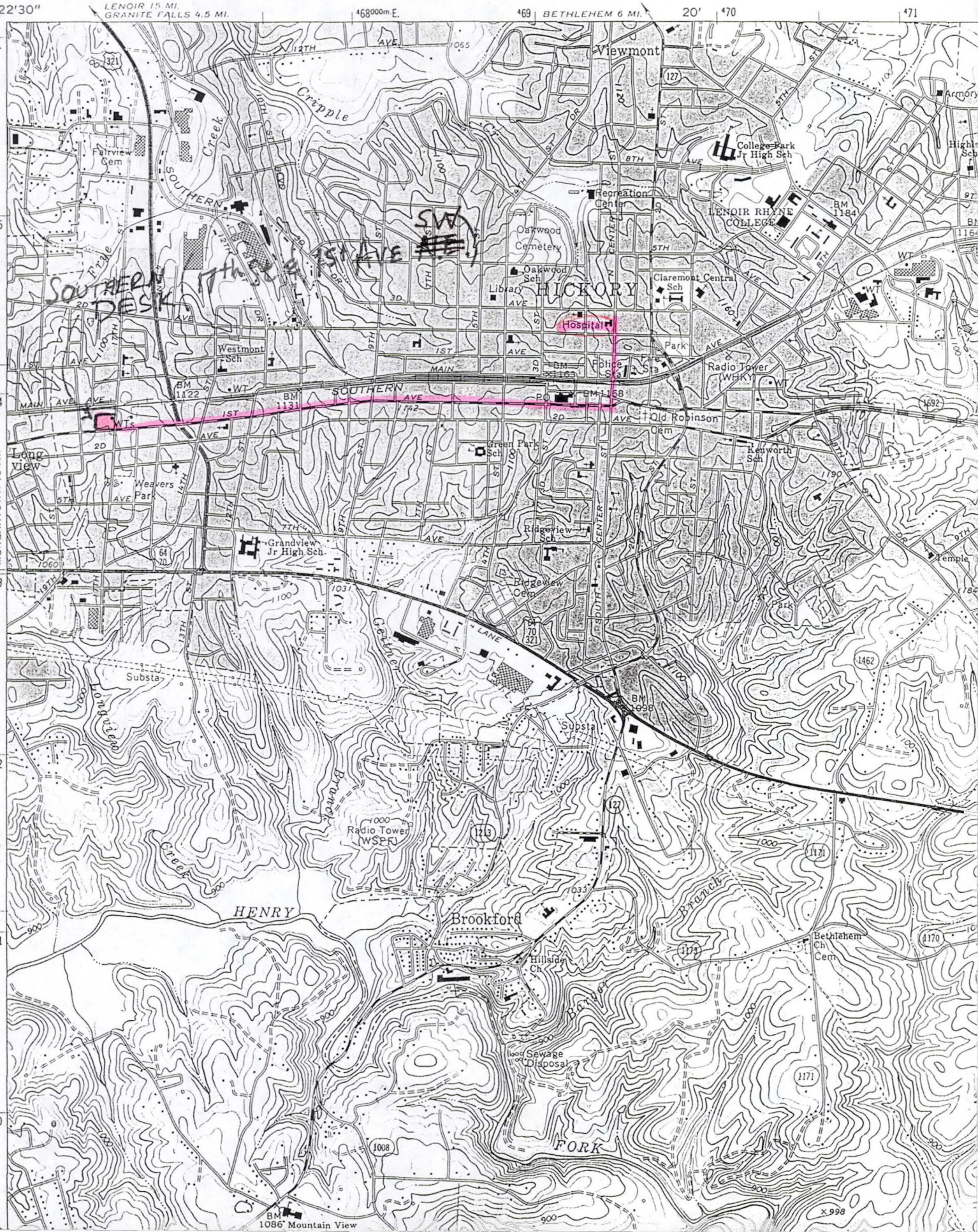

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Formaldehyde

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula CH2O	1,2
Natural Physical State at 25°C gas	1,2
Vapor Pressure -- mm Hg at 20°C	
Melting Point °F/°C Boiling Point -19.5 °F/°C	
Flash Point (open or closed cup) °C/°F	
Solubility - H_2O miscible	1,2,3
Other ether and alcohol	

Physical Features: (odor, color, etc.) Pungent suffocating odor
I P - 10.88 eV odor threshold is approx. 1. - 1 ppm.

II. TOXICOLOGICAL DATA

Standards: 1 ppm TLV 3 PEL 100 IDLH 3

Routes of Exposure: inhalation

Acute/Chronic Symptoms: irritating to eyes, respiratory tract and skin. High concentrations can cause occular damage.

First Aid: eyes: irrigate immediately, skin: soap wash immediately, inhalation: fresh air, ingestion: medical attention.

Chemical Name: Formaldehyde

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes X No ____ — 1

Toxic by-products ____

B. Flammability LEL 7 UEL 73 — 3

C. Reactivity Hazard very reactive - alkalies, acids, phenols, polymerizes readily. — 1,3

D. Corrosivity Hazard yes/no pH: ____

Neutralizing agent: ____

E. Radioactive Hazard — Exposure Rate

Background	yes/no		
Alpha particles	yes/no		
Beta particles	yes/no		
Gamma radiation	yes/no		

IV. REFERENCES

The Merck Index

Documentation of the TLV.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Acetone

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula CH_3COCH_3	1,2
Natural Physical State at 25°C liquid	1,2
Vapor Pressure 226 mm Hg at 20°C	1
Melting Point - 95 °F/°C Boiling Point 57 °F/°C	
Flash Point (open or closed cup) 1.4 °C/°F	
Solubility - H_2O soluble	
Other	

Physical Features: (odor, color, etc.) colorless liquid with a sweetish odor.

II. TOXICOLOGICAL DATA

Standards: 750 ppm TLV 1000 ppm PEL 20,000 ppm IDLH 2

Routes of Exposure: Inhalation, contact with skin will cause dryness.

Acute/Chronic Symptoms: Irritation of eyes, nose and throat. Headaches, dizziness, and dermatitis.

First Aid: Eyes: irrigate immed. for 15 mins., Skin: soap and water wash, Inhalation: fresh air & art. resp., Ingestion: medical attention.

Chemical Name: Acetone

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes X No ____ ____

Toxic by-products None ____ ____

____ ____

B. Flammability LEL 2.6% UEL 12.8% 2

C. Reactivity Hazard oxidizing material & acids ____

D. Corrosivity Hazard yes/no pH: ____ ____

Neutralizing agent: ____ ____

E. Radioactive Hazard — Exposure Rate

Background	yes/no	____	____
Alpha particles	yes/no	____	____
Beta particles	yes/no	____	____
Gamma radiation	yes/no	____	____

IV. REFERENCES

Chemical Safety Data Guide, BNA - 1985.

Pocket Guide to Chemical Hazards, NIOSH - 1985.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Methyl Isobutyl Ketone (4-methyl-2, pentanone isopropyl acetone)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula CH3 CO CH2 CH3 H7	1,2,3
Natural Physical State at 25°C liquid	1,2,3
Vapor Pressure 15 mm Hg at 20°C	3
Melting Point 119 °F/°C Boiling Point _____ °F/°C	1,2,3
Flash Point (open or closed cup) 73 °C/°F	1,2,3
Solubility - H_2O 1.91 g/ml	1,2,3
Other miscible with alcohol, benzene, ether	1

Physical Features: (odor, color, etc.) colorless liquid with a faint ketonic and camphoric odor

II. TOXICOLOGICAL DATA

Standards: 50 TLV 100 PEL 3000 IDLH 3

Routes of Exposure: inhalation

Acute/Chronic Symptoms: high vapor conc. are irritating to eyes, nose and throat, weakness, headache, nausea and lightheadedness can also occur.

First Aid: inhalation: fresh air & artificial resp., skin: soap & water wash, eyes: irrigate immediately, ingestion: medical attention.

Chemical Name: Methyl Isobutyl Ketone

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes X No ____ — 3

Toxic by-products ____

B. Flammability LEL 1.4 UEL 7.5% — 3

C. Reactivity Hazard strong oxidizers — 3

D. Corrosivity Hazard yes/no pH: ____

Neutralizing agent: ____

E. Radioactive Hazard — Exposure Rate

Background	yes/no	
Alpha particles	yes/no	
Beta particles	yes/no	
Gamma radiation	yes/no	

IV. REFERENCES

The Merck Index.

Documentation of the TLV.

NIOSH Pocket Guide to Chemical Hazards.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Methyl Ethyl Ketone (2 Butanone)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula C4 H8 O	1,2,3
Natural Physical State at 25°C liquid	1,2,3
Vapor Pressure 70.6 mm Hg at 20°C	2,3
Melting Point ____ °F/°C Boiling Point 80 °F/°C	
Flash Point (open or closed cup) 35 °C/°F	1,2
Solubility - H_2O 27%	1,3
Other common organic solvents	2

Physical Features: (odor, color, etc.) clear, colorless liquid with acetone-like odor, odor detection 10 ppm IP - 9.48 eV

II. TOXICOLOGICAL DATA

Standards: 200 ppm TLV 200 ppm PEL 3000 ppm IDLH 3

Routes of Exposure: inhalation

Acute/Chronic Symptoms: irritation of eyes, nose and throat at approx. 200 ppm

First Aid: eyes: irrigate immediately, skin: soap and water wash, inhalation: fresh air & artificial resp., ingestion: medical attention.

Chemical Name: Methyl Ethyl Ketone

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes X No ____ — 2

Toxic by-products ____

B. Flammability LEL 12% UEL 20% — 2

C. Reactivity Hazard very strong oxidizers — 3

D. Corrosivity Hazard yes/no pH: ____

Neutralizing agent: ____

E. Radioactive Hazard — Exposure Rate

Background	yes/no		
Alpha particles	yes/no		
Beta particles	yes/no		
Gamma radiation	yes/no		

IV. REFERENCES

The Merck Index

Documentation of the TLV's

NIOSH Pocket Guide to Chemical Hazards

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Toluene (Methyl benzene, toluol)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula C7H8	1,2,3,4
Natural Physical State at 25°C liquid	1,2,3,4
Vapor Pressure 2 mm Hg at 20°C	4
Melting Point - 95 °F/°C Boiling Point 110.6 °F/°C	1,3,4
Flash Point (open or closed cup) 40 °C/°F	1,2,3,4
Solubility - H_2O slightly sol.	1,3,4
Other miscible with alcohol, chloroform, ether, acetone, glacial acetic acid, carbon disulfide	1,3,4

Physical Features: (odor, color, etc.) colorless liquid with an aromatic odor, IP 8.82 eV, derived from coal tar oil or petroleum

II. TOXICOLOGICAL DATA

Standards: 100 TLV 200 PEL 2000 IDLH 4

Routes of Exposure: inhalation

Acute/Chronic Symptoms: Narcotic in high concentrations, headache, lassitude, and nausea. Chronic: anemia and dermatitis.

First Aid: skin: soap and water wash immed., eye: irrigate immed. inhalation: fresh air and artificial resp., ingestion: medical attention (4).

Chemical Name: Toluene

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes X No ____ — 4

Toxic by-products ____

B. Flammability LEL 1.0% UEL 7.0% — 4

C. Reactivity Hazard strong oxidizers — 3

D. Corrosivity Hazard yes/no pH: ____

Neutralizing agent: ____

E. Radioactive Hazard — Exposure Rate

Background	yes/no	
Alpha particles	yes/no	
Beta particles	yes/no	
Gamma radiation	yes/no	

IV. REFERENCES

The Merck Index, 10th Edition, 1983.

Documentation of the TLV, 4th Edition, 1980.

NIOSH Pocket Guide for Chemical Hazards, 1985.

NFPA, Protection Guide on Hazardous Materials, 8th Edition 8th Edition, 1984.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Xylene,O, M & P (Dimethyl benzene)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula C8 H10	1,2,3,4
Natural Physical State at 25°C liquid	1,2,3
Vapor Pressure 7 - 9 mm Hg at 20°C	3
Melting Point 13 - 14 °F/°C Boiling Point 137 - 140 °F/°C	1,2,3
Flash Point (open or closed cup) 90/84/81 °C/°F	1,2,3,4
Solubility - H_2O insoluble	1,2,3
Other soluble in alcohol, ether and most other organic solvents.	1,2,3

Physical Features: (odor, color, etc.) colorless liquid with aromatic/benzene odor. Common solvent for paints and coatings, especially alkyd resin type.

II. TOXICOLOGICAL DATA

Standards: 100 TLV 100 PEL 10,000 IDLH 4

Routes of Exposure: inhalation

Acute/Chronic Symptoms: headache, fatigue, dizziness, lassitude, narcotic effects in high concentrations (2,3). Chronic effects not well defined (1).

First Aid: eyes: irrigate immed., skin: soap and water wash immed., inhalation: fresh air and artificial resp., ingestion: medical attention.

Chemical Name: Xylene, O, M, & P

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes X No _____ — 1,2,3,4

Toxic by-products _____

B. Flammability LEL 1.4% UEL 6.7% — 2

C. Reactivity Hazard strong oxidizers — 4

D. Corrosivity Hazard yes/no pH: _____

Neutralizing agent: _____

E. Radioactive Hazard — Exposure Rate

Background	yes/no	
Alpha particles	yes/no	
Beta particles	yes/no	
Gamma radiation	yes/no	

IV. REFERENCES

The Merck Index, 10th Edition, 1983.

NFPA, Fire Protection Guide on Hazardous Materials, 8th Edition, 1984.

Documentation of the TLV, 4th Edition, 1980.

NIOSH Pocket Guide to Chemical Hazards, 1985.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: VM & P Naphtha (Ligroin)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula typical composition is:	1
paraffins 55.4, naphthens 30.3, alkyl benzene 11.7	
dicycloparaffins 2.4, benzene (less than) 0.1	
Natural Physical State at 25°C liquid	1,2
Vapor Pressure -- mm Hg at 20°C	
Melting Point °F/°C Boiling Point 118 - 179 °F/°C	
Flash Point (open or closed cup) 57 °C/°F	
Solubility - H_2O insoluble	
Other organic solvents	

Physical Features: (odor, color, etc.) clear, mobile, flammable liquid odor of kerosene or gasoline.

II. TOXICOLOGICAL DATA

Standards: 300 ppm TLV _____ PEL _____ IDLH _____

Routes of Exposure: inhalation

Acute/Chronic Symptoms: upper resp. tract irritation at 800 ppm eye irritation at 88 ppm.

First Aid: eyes: irrigate immediately, skin: soap and water wash, inhalation: fresh air and artificial resp., ingestion: medical attention.

Chemical Name: VM & P Naphtha

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes X No ____ — ____

Toxic by-products No — ____

____ — ____

B. Flammability LEL 1.2 UEL 6.0 — 1

C. Reactivity Hazard ____ — ____

D. Corrosivity Hazard yes/no pH: ____ — ____

Neutralizing agent: ____ — ____

E. Radioactive Hazard — Exposure Rate

Background	yes/no	____	____
Alpha particles	yes/no	____	____
Beta particles	yes/no	____	____
Gamma radiation	yes/no	____	____

IV. REFERENCES

Documentation of the TLV, 4th Edition, 1980.

The Merck Index, 10th Edition, 1983.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Butyl Acetate

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula CH3 COO (CH2)3 CH3 - n butylacetate	1
Natural Physical State at 25°C liquid	1
Vapor Pressure 10 mm Hg at 20°C	1
Melting Point -146 to -77°F/°C Boiling Point 122 & 126 °F/°C	1
Flash Point (open or closed cup) 88 & 92 °C/°F	1
Solubility - H_2O slightly Autoignition - 790°F	1
Other miscible with alcohol, ether and hydrocarbons.	

Physical Features: (odor, color, etc.) colorless liquid with a fruity odor. I.P. - n-butylacetate - 9.56 eV
sec-butylacetate - 9.91 eV

II. TOXICOLOGICAL DATA

Standards: 150-200ppm TLV 150-200ppm PEL 10,000 IDLH 2

Routes of Exposure: Inhalation

Acute/Chronic Symptoms: respiratory irritant with narcotic effect: headache, dizziness, drowsiness.

First Aid: Skin: soap & water wash, Eyes: irrigation, Inhalation: fresh air & artificial resp., Ingestion: medical attention.

Chemical Name: Butyl Acetate

III. HAZARDOUS CHARACTERISTICS — Reference

A. Combustibility Yes X No ____ — ____

Toxic by-products Unknown — ____

____ — ____

B. Flammability LEL 2.6% UEL 13.4% — 2

C. Reactivity Hazard in contact with peroxides may polymerize violently. — 2

D. Corrosivity Hazard yes/(no) pH: ____ — ____

Neutralizing agent: ____ — ____

E. Radioactive Hazard — Exposure Rate

Background	yes/(no)	____	____
Alpha particles	yes/(no)	____	____
Beta particles	yes/(no)	____	____
Gamma radiation	yes/(no)	____	____

IV. REFERENCES

Documentation of the TLV, 4th Edition, 1980.

The Merck Index, 10th Edition, 1983.

Fire Protection Guide on Hazardous Chemicals, 8th Edition, 1984.

DATE: September 26, 1988

FROM: Bruce Nicholson

TO: Southern Desk Files

SUBJECT: Telecon with Bill Yoder, Fire Marshall, Hickory, NC, (704) 324-6479

I informed Mr. Yoder that 4 members of the NC Superfund Branch would meet with him at 11:00 to 11:30 am on Thursday, September 29, and then visit the Southern Desk site. Mr. Yoder said the best place to meet would be the Fire Station Headquarters. From I-40 take Exit 125 (Lenoir Rhyne Boulevard), from the exit ramp turn right and go the the third light, turn left following the sign to downtown, turn right at the first light onto Hwy. 127 North, get in the left land and the Headquarters is on the left after passing under the Railroad tracks (see attached map).

Concerning the Southern Desk Site Mr. Yoder identified 4 areas of concern:

1). Concrete Pad - More than 100 55-gallon drums containing residues of stains, finishes, and spray booth filters are stored outside, open to the weather, on a concrete pad. These drums are rusting and in generally poor condition without labels of any kind. Someone has apparently tarred the tops of many of the drums in an effort to keep them from rusting.

2). Above-Ground Tanks - Also outside the main building there are 4 large above-ground storage tanks each of which has an estimated 10,000 gallon capacity. There is no sign of any leakage from these tanks, but there remains an unknown amount of finish or stain residues in them.

3). Mixing Room - Inside one of the buildings tere are more than 50 55-gallon and 5-gallon drums stored in this room used for mixing the stains and finishes for the spray booth.

4). Storage Room - This room is locked with a padlock, and Mr. Yoder has not been in it. However, looking over the top of the door he saw the room is filled with 55-gallon and 5-gallon drums similar to those in the mixing room. The roof is leaking over this room and has corroded the drums. He said the building owner, Wayne Franklin, gave him permission to break the lock and enter the room, but he was reluctant to do so because the lock is a barrier to direct contact. Although the drums are not "standing" in chemicals, there is some chemical residue on the floor probably from the leaking drums. Some residents and businesses in the area have complained of a solvent smell in the sewer system. Mr. Yoder theorizes it could come from the drums leaking into the drain during a heavy rain.

Mr. Yoder said the site was discovered during a building inspection in November, 1987. On November 10, Mr. Yoder drafted letters to the current owner, Mr. Wayne Franklin, and the previous owner who last used the plant for furniture manufacturing, GTE Services Corporation. He got no response and wrote follow up correspondence in February, 1988. GTE Services Corporation notified him that they had contracted Hart Environmental Management to perform an audit on the substances at the plant and that they would inform Mr. Yoder of the results. Mr. Yoder has yet to receive the Hart report or its results from GTE.

Mr. Yoder provided me with the following addresses:

Mr. Wayne Franklin
C/O Franklin Machinery
2506 58th Street
Hampton, VA 23661
(804) 826-7300

Mr. Bennett L. Stein (Mr. Franklin's Attorney)
West, Stein, West, & Smith Attorneys
740 F. Thimble Shoals Blvd.
Newport News, VA 23606
(804) 873-1738

Mr. Vincent Gallogly
Assistant General Counsel
GTE Services Corporation
1 Stamford Forum
Stamford, CT 06904
(203) 965-2000

Mr. Yoder said that some businesses rent out space from Mr. Franklin but they are not operating near any of the areas of concern (the site is very large). These businesses have been operating without a certificate of occupancy, and have been notified this is illegal. Some have applied for a certificate of occupancy, but because of the fire hazard, his office is not even considering any applications until the hazardous material is removed.

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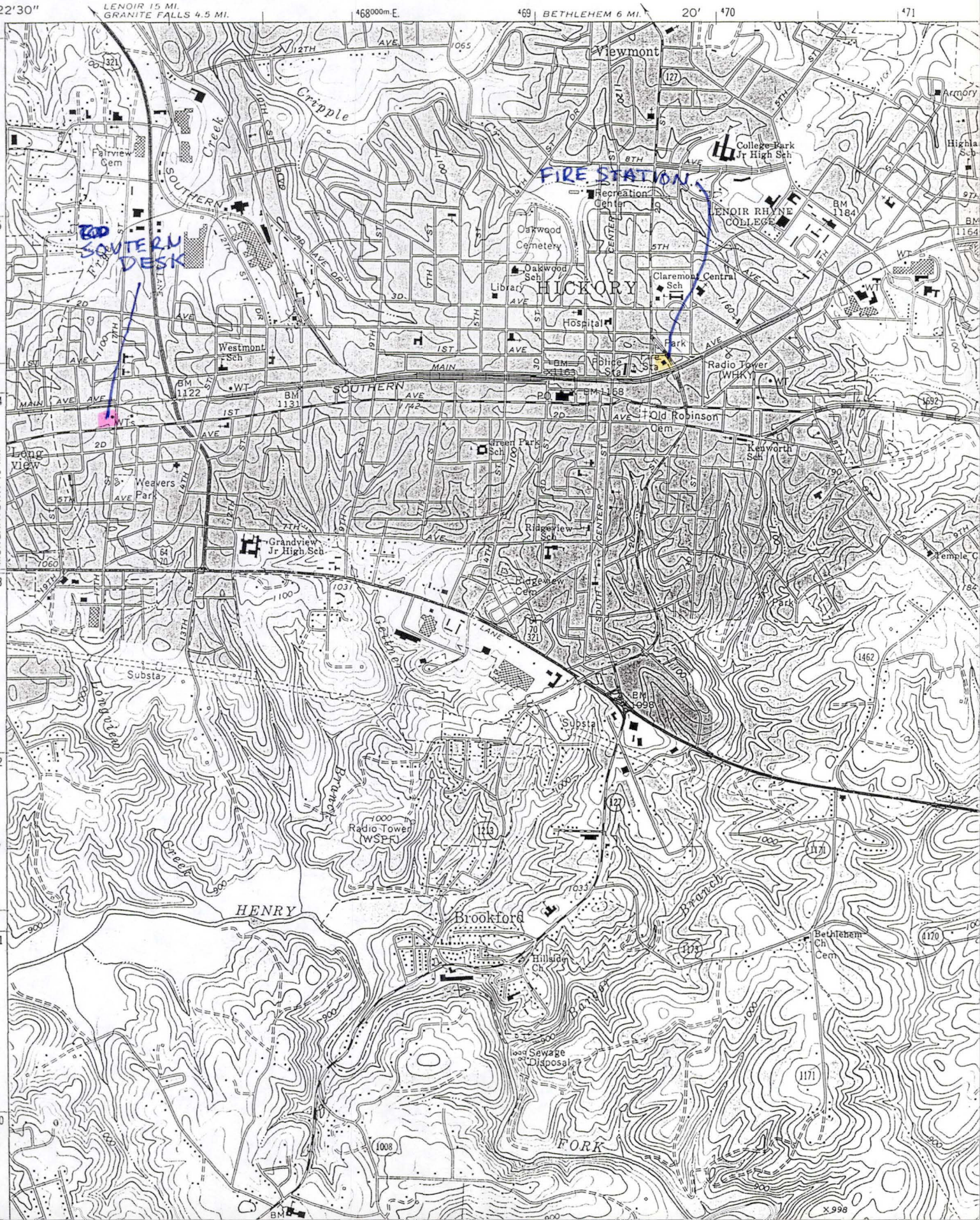

16 September 1988

TO: Southern Desk File

FROM: Lee Crosby

RE: 16 September 1988 Telephone Conversation
Bill Yoder, Hickory Fire Marshall

On the 14th of September, Vance Kee called the Southern Desk facility located in Hickory. This morning I talked with Bill Yoder (704/324-6479) about the specifics of a building in Hickory that has previously been used as a furniture manufacturing facility. Last November, Bill Yoder received a complaint about drums being left on site by the previous owner. He reports that there are approximately one hundred 55-gallon drums with residue and waste materials on the site. There are also tanks on site and mixing rooms in the building that have previously been used for a spray booth. He also reports that there are approximately fifty 55-gallon drums in a room adjacent to the mixing rooms.

Bill Yoder has notified the current owner, Wayne D. Franklin, and the previous owner, GTE Services Corporation, about removing the drums. The Hickory city attorney, Murray Tate (704/322-4663), has also written the current owner and the previous occupant. The Southern Desk facility has been discussed at City Council meetings and the City Council is considering condemning the building and tearing it down.