

\*544SERBSF10,632\*

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Site Name (Subject): TOM SADLER ROAD WELLS

Site ID (Document ID): NCD986231967

Document Name (DocType): Correspondence (C)

Report Segment:

Description: General Correspondence, 1993 - 1997

Date of Document: 1/2/1997

Date Received:

Box: *Enter SF and # with no spaces* SF10,632

Access Level: PUBLIC

Division: WASTE MANAGEMENT

Section: SUPERFUND

Program (Document Group): SERB (SERB)

Document Category: FACILITY

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Record**

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(default to last  
record values)**

**Delete Record**

MEMO

DATE: January 2, 1997

TO: File

FROM: Jeanette Stanley  
Environmental Chemist  
NC Superfund Section

*Jeanette Stanley*

SITE: Tom Sadler Road Wells  
NCD 986 231 967  
Charlotte, Mecklenburg, North Carolina

I received the TCLP results from the post-removal samples taken at the Tom Sadler Road Wells site. Three composite samples were taken in the area where soil was removed and prior to backfilling. All three post-removal samples were <0.05 mg/L TCLP lead, meaning that the removal also satisfies the Inactive Sites Guidelines for lead for soil removal where groundwater is impacted.

- Superfund Section
- Hazardous Waste Section
- Solid Waste Section

Inorganics Lab:   
 Organics   
**RECEIVED**

DEC 20 1996

CHAIN OF CUSTODY RECORD

**SUPERFUND SECTION**

Project Name: <u>Tom Sadler Rd. Wells</u> Site ID # (NCD#): <u>NCD 986 231 967</u> Location: <u>2128 Tom Sadler Rd.</u> Address: <u>Charlotte, NC</u>	Sampled by: <u>J. Stanley / Laubenthal</u> Sampler ID: _____ Telephone: ( ) <u>733-7801 ext. 336</u> Date Sampled: <u>10/24/96</u> Time Sampled: <u>1200-1400</u>
--	---

Sample Types: Soil  Water \_\_\_\_\_ Waste \_\_\_\_\_ Other \_\_\_\_\_

Remarks: TCLP Lead only

Field Sample Numbers: 017001 \_\_\_\_\_  
017002 \_\_\_\_\_  
017003 \_\_\_\_\_

Relinquished by: J. Stanley (Signature) Date: 10/25/96 Time: 1325

Received by: Joyce Danen (Signature) Date: 10/25/96 Time: 1325

Relinquished by: \_\_\_\_\_ (Signature) Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: \_\_\_\_\_ (Signature) Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ (Signature) Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: \_\_\_\_\_ (Signature) Date: \_\_\_\_\_ Time: \_\_\_\_\_

Results Reported: W. Walker (Signature) Date: 18 Dec 96 Time: \_\_\_\_\_







State of North Carolina  
Department of Environment,  
Health and Natural Resources  
Mooresville Regional Office

James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary

*Tom Sadler Rd. Wells file*



December 2, 1996

Mr. Garland Mingus  
2128 Tom Sadler Road  
Charlotte, N.C. 28214

Dear Mr. Mingus:

I recently contacted you to discuss the proper disposal methods of used oil, varsol, and kerosene. This call was at the request of Ms. Jeanette Stanley of the North Carolina Superfund Section. With the recent cleanup of your property, the State of North Carolina would like to ensure that your property remains clean.

In our conversation, you indicated that you give your used oil to a garage near your house, which burns the oil to recover its heat value. As far as the varsol and kerosene, you told me that you have never had to dispose of any of these materials because they either evaporate or are used completely.

This letter will serve as an open invitation for you to call me if you ever need some type of technical assistance in the area of proper waste disposal. If you have any questions, please contact me at (704)-663-1699, ext. 293.

Sincerely,

Joseph S. Parker  
Waste Management Specialist

cc: **Jeanette Stanley**  
Keith Masters

File

**SITE HEALTH AND SAFETY PLAN**

**A. General Information**

Site Name Tom Sadler Road Wells ID # NCD 986 231 967

Location 2128 Tom Sadler Road, Charlotte,  
Mecklenburg County, NC 28214

Proposed Date of Investigation October 21-31, 1996

Date of Briefing October 21, 1996

Date of Debriefing November 1, 1996

Nature of Visit (check one): On-Site Reconnaissance \_\_\_\_\_  
Off-Site Reconnaissance \_\_\_\_\_  
Sampling \_\_\_\_\_  
Sampling Overview \_\_\_\_\_  
Remediation Overview  X

Health Department Official Contacted Ms. Sarah Edwards for Henry Sutton

Date of Contact October 21, 1996

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

<u>Personnel</u>	<u>Responsibilities</u>	<u>Signature</u>
Team 1 <u>Jeanette Stanley</u>	<u>team leader, recon</u>	<u><i>Jeanette Stanley</i></u>
Team 1 _____	_____	_____
Team 2 _____	_____	_____
Team 2 _____	_____	_____

**Plan Preparation:**

Prepared By: David Lilley, Industrial Hygiene Consultant

Reviewed By: Jack Butler, Superfund Section Chief

*David Lilley*  
*Jack Butler*

**B. SITE/WASTE CHARACTERISTICS**

Waste Type(s)  Liquid  Solid  Sludge  Gas  Vapor  
 Characteristics  Corrosive  Ignitable  Radioactive  
 Volatile  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
<u>1,1-dichloroethylene</u>	<u>Odor Threshold (OT) = no data</u>	<u>200 ppm</u>
<u>Carbon tetrachloride</u>	<u>OT = 0.0011 - 7.7 ppm</u>	<u>2 ppm</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

**UNDERGROUND UTILITIES CHECKLIST**

<u>Utility</u>	<u>Locator/Contact Person</u>	<u>Phone #</u>	<u>Date of Location</u>
Power	<u>NA</u>	<u> </u>	<u> </u>
Telephone	<u>NA</u>	<u> </u>	<u> </u>
Gas	<u>NA</u>	<u> </u>	<u> </u>
Water	<u>NA</u>	<u> </u>	<u> </u>
Sewer	<u>NA</u>	<u> </u>	<u> </u>

Call made by:

Facility Description: Size unknown Buildings yes

Disposal Methods Being Investigated Possible leakage of drums/containers.

Unusual Features on Site (dike integrity, power lines, terrain, etc.):

The site is a residential property.

History of the Site: The well in question was drilled in September of 1992. The well is about five feet away from a small auto repair shop that has existed on the site for about 30 years.

C. HAZARD EVALUATION

The site can be toured in level D protection. Steel toed work boots will be worn while conducting the tour of the site. Tyvek suits (saranex in wet conditions) are recommended to keep clothing clean.

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 \_\_\_\_\_

Surveillance Equipment:

<u>          </u> HNU	<u>          </u> Detector Tubes and Pumps
<u>          </u> OVA	<u>          </u> O2 Meter
<u>          </u> Explosimeter	<u>          </u> 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.

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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.  
No sampling will be conducted at this time, sampling may take place on a  
later date.

EMERGENCY PRECAUTIONS

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

Location of Nearest Phone: on site (this is a residence)

Hospital (Address and Phone Number)

1. PRO MED-Freedom, 4221 Tuckaseegee Road, Charlotte, NC (701) 521-9435

2. Mercy Hospital, 2001 Vail Avenue, Charlotte, NC 28207 (704) 379-5000

can handle chemically contaminated patients

Emergency Transportation Systems (Phone Numbers)

Fire 911

Ambulance 911

Rescue Squad 911

Emergency Route to Hospital 1. Take tom Sadler Road back to Route 27 and go south to Charlotte. The medical facility is where 27 crosses Tuckaseegee Road, which is about 5 miles from the site.

2. Take Tom Sadler Road back to Route 27 and go south to Charlotte. Stay on Route 27 and exit onto Route 16 East, take a right onto Queens Road, a left onto Randolph Road, then a left onto Caswell Road. The hospital is about 10 miles from the site.

PREVAILING WEATHER CONDITIONS AND FORECAST \_\_\_\_\_

**EQUIPMENT CHECKLIST**

<input type="checkbox"/> Air purifying respirator	<input checked="" type="checkbox"/> First Aid Kit
<input type="checkbox"/> Cartridges for respirator	<input checked="" type="checkbox"/> 3 gal. Deionized H2O
<input type="checkbox"/> Eye Wash Unit	<input checked="" type="checkbox"/> Rain suit
<input type="checkbox"/> HNU	<input checked="" type="checkbox"/> Gloves (PE/PVC/nitrile/cloth)
<input type="checkbox"/> OVA	<input checked="" type="checkbox"/> Boots/Boot Covers
<input type="checkbox"/> Explosimeter	<input checked="" type="checkbox"/> Coveralls (tyvek/saranex)
<input type="checkbox"/> Radiation Monitor	<input checked="" type="checkbox"/> Eye Protection (goggles/shield)
<input checked="" type="checkbox"/> Decontamination Materials	<input checked="" type="checkbox"/> Hard Hat

**Poison Control Center - State Coordinator**

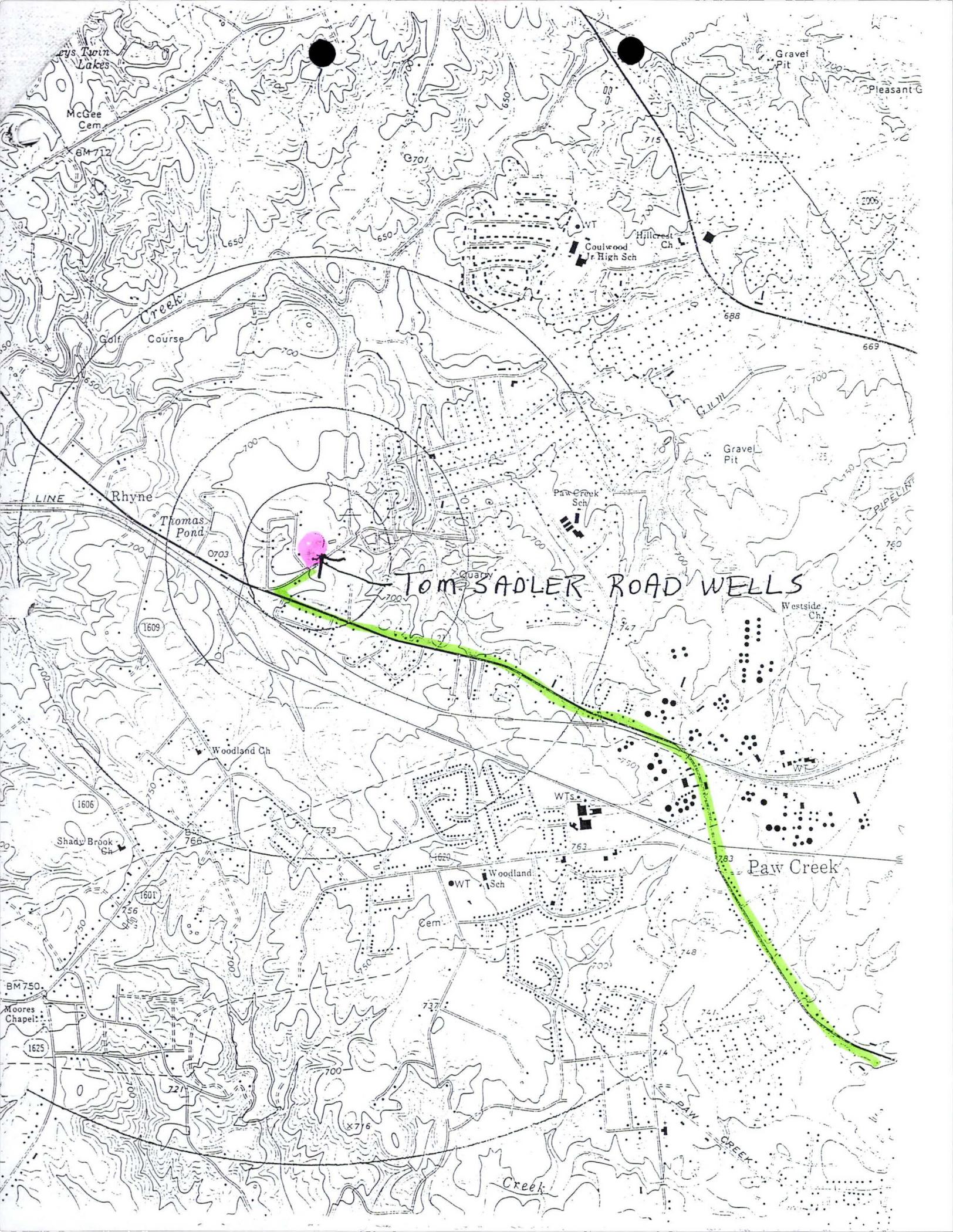
Duke University Medical Center

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



TOM SADLER ROAD WELLS



McGee Cem

BM 712

G701

WT

Coulwood Jr High Sch

Hillcrest Ch

Gravel Pit

Pleasant G

Creek

Golf Course

Gravel Pit

Rhyme

Thomas Pond

Paw Creek Sch

TOM SADLER ROAD WELLS

Westside Ch

Woodland Ch

WTs

Woodland Sch

Paw Creek

Shady Brook Ch

Cem

BM 750

Moore's Chapel

737

700

X716

Creek

PAW CREEK





6  
354

Thomasboro

Char

Hospital



HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: 1,2-Dichloroethylene

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C<sub>2</sub>H<sub>2</sub>Cl<sub>2</sub></u>	<u>1</u>
Natural Physical State at 25°C <u>liquid</u>	<u>2</u>
Vapor Pressure <u>180-265</u> mm Hg at 20°C	<u>3</u>
Melting Point <u>-56 to -115</u> °C Boiling Point <u>113 to 140</u> °F/°C	<u>3</u>
Flash Point (open or closed cup) <u>36 - 39</u> °C/°F	<u>3</u>
Solubility - H <sub>2</sub> O <u>0.35 to 0.63%</u>	<u>3</u>
Other <u>alcohol, ether, most organic solvents</u>	<u>2</u>

Physical Features: (odor, color, etc.) Colorless liquid with an ether-like slightly acrid odor, like chloroform (3) IP = 9.65 eV  
OVA Relative Response = 50%

II. TOXICOLOGICAL DATA

Standards: 200 ppm (4) TLV      200 ppm (5) PEL      4,000ppm (3) IDLH

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

Acute/Chronic Symptoms: Irritation of the eyes and respiratory system, central nervous system depression (3)

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-Dichloroethylene

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility	Yes <u>X</u> No <u>    </u>	<u>6</u>
Toxic by-products	<u>phosgene and</u> <u>HCl formation</u>	<u>6</u>
B. Flammability	LEL <u>9.7%</u> UEL <u>12.8%</u>	<u>6</u>
C. Reactivity Hazard	<u>Not reactive with common materials</u>	<u>6</u>
D. Corrosivity Hazard	yes/no pH: <u>    </u>	<u>    </u>
Neutralizing agent:	<u>    </u>	<u>    </u>
E. Radioactive Hazard		Exposure Rate
Background	yes/no	<u>    </u>
Alpha particles	yes/no	<u>    </u>
Beta particles	yes/no	<u>    </u>
Gamma radiation	yes/no	<u>    </u>

IV. REFERENCES

1. The Condensed Chemical Dictionary, Sax, 11th Edition,  
1987.
2. The Merck Index, 11th Edition, Sax, 1989.
3. Pocket Guide to Chemical Hazards, NIOSH, 1990.
4. Threshold Limit Values and Biological Exposure  
Indices for 1994-1995, ACGIH.
5. 29 CFR 1910.1000.
6. Chemical Hazard Response Information System, US Department of  
Transportation, 1987.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Carbon Tetrachloride

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>CCl4</u>	<u>1</u>
Natural Physical State at 25°C <u>liquid</u>	<u>2</u>
Vapor Pressure <u>91.3</u> mm Hg at 20°C	<u>2</u>
Melting Point <u>-9</u> °F/°C Boiling Point <u>170</u> °F/°C	<u>3</u>
Flash Point (open or closed cup) <u>none</u> °C/°F	<u>3</u>
Solubility - H <sub>2</sub> O <u>1 ml dissolves in 2000 ml water</u>	<u>1</u>
Other <u>miscible with alcohol, benzene,</u>	<u>1</u>
<u>chloroform, ether, carbon disulfide, petroleum ether, oils</u>	

Physical Features: (odor, color, etc.) Colorless, clear heavy liquid with an ether-like odor (1,3) IP = 11.47 eV, HNU sensitivity with 11.7 eV probe = 9.0.

II. TOXICOLOGICAL DATA

potential human

Standards: 5 ppm-skin (4) TLV 2 ppm (5) PELcarcinogen (3) IDLH

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

Acute/Chronic Symptoms: Central nervous system depression, nausea, vomiting, liver and kidney damage, skin irritation, potential human carcinogen (3)

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

Chemical Name: Carbon Tetrachloride

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes      No X  
Toxic by-products                                            
     

3

B. Flammability LEL            UEL                      

C. Reactivity Hazard Incompatible with chemically active 3  
metals, such as sodium, potassium, and magnesium; fluorine; aluminum

Note: forms highly toxic phosgene gas when exposed to flames or welding arcs.

D. Corrosivity Hazard yes/no pH:                      

Neutralizing agent:      

E. Radioactive Hazard		Exposure Rate	
Background	yes/no	<u>          </u>	<u>          </u>
Alpha particles	yes/no	<u>          </u>	<u>          </u>
Beta particles	yes/no	<u>          </u>	<u>          </u>
Gamma radiation	yes/no	<u>          </u>	<u>          </u>

IV. REFERENCES

- (1) The Merck Index, 11th Edition.
- (2) The Condensed Chemical Dictionary, Hawley, 11th Edition.
- (3) NIOSH Pocket Guide to Chemical Hazards, 1990.
- (4) Threshold Limit Values and Biological Exposure Indices for 1994-1995, ACGIH.
- (5) 29 CFR 1910.1000

Federal  
Trip Notification & Authorization

Prepared by: J. Stanley

Today's Date: 10/17/96

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

Site Trip

Date of Trip: October 21 - October 31, 1996

If trip date changed or cancelled note below:

Trip Date Changed To: \_\_\_\_\_ Cancelled: \_\_\_\_\_

NCD#: 986 231 967 Site Name: Tom Sadler Rd. Wells  
City: Charlotte County: Mecklenburg

Reason for Trip: Removal Evaluation: Site Visit

Name of Hotel (Overnight Trip): \_\_\_\_\_ Hotel Telephone Number: ( ) \_\_\_\_\_

Authorized by: [Signature]  
Industrial Hygienist

Project Team Leader: J. Stanley

Assistants: \_\_\_\_\_

Attach To Notification Form: 1 copy each: Preliminary Assessment Form (First page only)  
Submit to the Industrial Hygienist 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: Mr. Henry Sutton Title: Solid+Haz. Waste Program Mgr.  
(Note if Dr., M.P., etc.)

Telephone Number: (704) 336-5500

Notes: Health Department Official Contacted: Ms. Sarah Edwards  
Back Up Letter Required: Yes \_\_\_\_\_ No X

Notified Ms. Edwards for Mr. Sutton  
on 10-21-96 (DBL)

Note: Signed original to Data Manager

*file removal*

MEMO

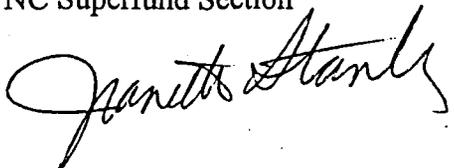
DATE: August 29, 1996

TO: FILE

cc: Pat DeRosa, Head, NC Site Evaluation & Removal Branch

FROM: Jeanette Stanley, Environmental Chemist, NC Superfund Section

SITE: Tom Sadler Road Wells  
NCD 986 231 967  
Charlotte, Mecklenburg, North Carolina



Dean Ullock, US EPA ERRB (404) 347-3931 ext. 6227 called on August 22, 1996. He left a message about the presence of chlorinated solvents in the samples taken in connection with the removal action. He said that 180 ppb of a chlorinated solvent was detected in one soil sample. One drum near the metal shed contained 1,300 ppb tetrachloroethylene.

Dean and I talked today. He said that soil at about 1' depth contained 180 ppb (ug/kg) 1,1,1-Trichloroethane. This was in sample #TSS-1. This sample location was midway between the metal shed and the garage. He confirmed the level of tetrachloroethene in a drum at 1,300 ppb. He found lead in soil at 3,000 ppm near the garage.

*File*

MEMO

DATE: July 11, 1996

TO: File

FROM: Jeanette Stanley  
Environmental Chemist  
NC Superfund Section



SITE: Tom Sadler Road Wells  
NCD 986 231 967  
Charlotte, Mecklenburg, North Carolina

I met Dean Ullock, US EPA ERRB (404) 347-3931 ext. 6227 at the Tom Sadler Road Wells site at 1:15 pm yesterday, July 10, 1996. Sampling was being conducted to determine the extent and nature of contamination prior to removal. Ann Roat and Sam Yount of PRC Environmental Management, Inc. (770) 935-1542 were the contractors performing the sampling. They sampled eight drums and on-site soil. The on-site soil sampling was conducted before I arrived. I witnessed the drum sampling. Dean located an area of stained soil adjacent to the garage, on the left (or west) side where Mr. Mingus had apparently dumped solvents out of the window. This area was sampled at depth. A metal object which Dean had initially identified as a vat was actually a wood stove and was not sampled.

File

MEMO

DATE: July 11, 1996

TO: FILE

FROM: Jeanette Stanley  
Environmental Chemist  
NC Superfund Section



SITE: Tom Sadler Road Wells  
NCD 986 231 967  
Charlotte, Mecklenburg, North Carolina

I met with Lisa Corbett, Mecklenburg County Department of Environmental Health (704) 336-5448 on July 10, 1996. She said that she had sampled the two wells in the area that I was concerned about as I had no record of their being tested, the one at 2310 Tom Sadler Road and the other at 1635 Woodlea Road. No chlorinated solvents were detected in either of these wells. The results area attached.

MECKLENBURG COUNTY ENVIRONMENTAL PROTECTION LABORATORY

Field I.D.#: \_\_\_\_\_ Dept.: HA-2  
 Site Sampled: Lucille T. Fisher Project: \_\_\_\_\_  
 Address: 2310 Tom Sailer Rd 392-5838  
 Source Sampled: Kitchen Faucet Delivered to Lab On: \_\_\_\_\_  
 Sampled By: L. Corbitt Date: 6/4/96 Time: 3:40 <sup>DAM</sup> <sub>OPM</sub>  
 Date Sampled: 6/4/96 Time: 3:00 <sup>DAM</sup> <sub>OPM</sub> Delivered By: L. Corbitt

Lab I.D. #: 4299  
 Rec'd By: Garrey  
 Date Rec'd: 6-4-96  
 Time: 1610 <sup>DAM</sup> <sub>OPM</sub>

Chemical Composition

Inorganic  \_\_\_\_\_ %  
 Organic  \_\_\_\_\_ %  
 Moisture  \_\_\_\_\_ %

Radioactivity

Air  
 Gross Alpha  \_\_\_\_\_ pCi/m<sup>3</sup>  
 Gross Beta  \_\_\_\_\_ pCi/m<sup>3</sup>

Water  
 Gross Alpha  \_\_\_\_\_ pCi/L  
 Gross Beta  \_\_\_\_\_ pCi/L

Miscellaneous

Asbestos  \_\_\_\_\_ %  
 Chlorophyll a  \_\_\_\_\_ ppb  
 Corrosivity  \_\_\_\_\_ SI  
 Dissolved Oxygen  \_\_\_\_\_ ppm  
 Formaldehyde  \_\_\_\_\_ ppm  
 \_\_\_\_\_ ppm  
 \_\_\_\_\_ ppm  
 \_\_\_\_\_ ppm  
 \_\_\_\_\_ ppm  
 Fecal Coliform  \_\_\_\_\_ Colonies/100 mL  
 Fecal Strep  \_\_\_\_\_ Colonies/100 mL

Inorganic Non Metals

Acidity  \_\_\_\_\_ ppm  
 Alkalinity  \_\_\_\_\_ ppm  
 Bicarbonate  \_\_\_\_\_ ppm  
 Carbonate  \_\_\_\_\_ ppm  
 Chloride  \_\_\_\_\_ ppm  
 Chlorine, Residual  \_\_\_\_\_ ppm  
 Color  \_\_\_\_\_ units  
 Cyanide, Total  \_\_\_\_\_ ppm  
 Fluoride  \_\_\_\_\_ ppm  
 Hardness  \_\_\_\_\_ ppm  
 Nitrogen, Ammonia  \_\_\_\_\_ ppm  
 Nitrogen, Nitrate + Nitrite  \_\_\_\_\_ ppm  
 Nitrogen, Nitrate  \_\_\_\_\_ ppm  
 Nitrogen, Nitrite  \_\_\_\_\_ ppm  
 Nitrogen, Total Kjeldahl  \_\_\_\_\_ ppm  
 pH  \_\_\_\_\_ units  
 Phosphorus, Ortho  \_\_\_\_\_ ppm  
 Phosphorus, Total  \_\_\_\_\_ ppm  
 Phosphorus, Total Dissolved  \_\_\_\_\_ ppm  
 Residue, Filterable  \_\_\_\_\_ ppm  
 Residue, Suspended  \_\_\_\_\_ ppm  
 Residue, Total  \_\_\_\_\_ ppm  
 Specific Conductance  \_\_\_\_\_ umho/cm  
 Sulfate  \_\_\_\_\_ ppm  
 Sulfide  \_\_\_\_\_ ppm  
 Turbidity  \_\_\_\_\_ NTU

Aggregate Organics

BOD<sub>5</sub>  \_\_\_\_\_ ppm  
 COD  \_\_\_\_\_ ppm  
 Oil and Grease  \_\_\_\_\_ ppm  
 Phenol  \_\_\_\_\_ ppm  
 Surfactant  \_\_\_\_\_ ppm

Organics

Acid Herbicide  Report attached  
 Organic Acid  \_\_\_\_\_ ppm  
 PCB  Report attached  
 Pesticide  Report attached  
 Semivolatile  Report attached.  
 TPH  \_\_\_\_\_ ppm  
 VOC  Report attached

Mineral Metals

Al  \_\_\_\_\_ ppm \_\_\_\_\_ ppb  
 Ca  \_\_\_\_\_ ppm \_\_\_\_\_ ppb  
 Co  \_\_\_\_\_ ppm \_\_\_\_\_ ppb  
 Cu  \_\_\_\_\_ ppm \_\_\_\_\_ ppb  
 Fe  \_\_\_\_\_ ppm \_\_\_\_\_ ppb  
 Mg  \_\_\_\_\_ ppm \_\_\_\_\_ ppb  
 Mn  \_\_\_\_\_ ppm \_\_\_\_\_ ppb  
 K  \_\_\_\_\_ ppm \_\_\_\_\_ ppb  
 Si  \_\_\_\_\_ ppm \_\_\_\_\_ ppb  
 Na  \_\_\_\_\_ ppm \_\_\_\_\_ ppb  
 Sn  \_\_\_\_\_ ppm \_\_\_\_\_ ppb  
 Zn  \_\_\_\_\_ ppm \_\_\_\_\_ ppb  
 \_\_\_\_\_ ppm \_\_\_\_\_ ppb

Toxic Metals

TCLP Metals   
 Sb  \_\_\_\_\_ ppb \_\_\_\_\_ ppm  
 As  \_\_\_\_\_ ppb \_\_\_\_\_ ppm  
 Ba  \_\_\_\_\_ ppb \_\_\_\_\_ ppm  
 Be  \_\_\_\_\_ ppb \_\_\_\_\_ ppm  
 Cd  \_\_\_\_\_ ppb \_\_\_\_\_ ppm  
 Cr  \_\_\_\_\_ ppb \_\_\_\_\_ ppm  
 Pb  \_\_\_\_\_ ppb \_\_\_\_\_ ppm  
 Hg  \_\_\_\_\_ ppb \_\_\_\_\_ ppm  
 Ni  \_\_\_\_\_ ppb \_\_\_\_\_ ppm  
 Se  \_\_\_\_\_ ppb \_\_\_\_\_ ppm  
 Ag  \_\_\_\_\_ ppb \_\_\_\_\_ ppm  
 Tl  \_\_\_\_\_ ppb \_\_\_\_\_ ppm

NOTE: ALL FIELD DATA MUST BE RECORDED TO MAINTAIN CHAIN OF CUSTODY

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Date Completed: \_\_\_\_\_

Laboratory Director: \_\_\_\_\_

**JUN 12 1996**  
*James T. Ward*

Laboratory Director

**MECKLENBURG COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
ENVIRONMENTAL LABORATORY**

Project: \_\_\_\_\_

Field I.D.#: \_\_\_\_\_

Site Sampled: \_\_\_\_\_

Lab I.D.#: 4299

Date Sampled: \_\_\_\_\_

Sample Matrix: Water

**Volatile Organics**

Organics-Volatiles Parameter	Sample Results (ug/l)	Detection Limits (ug/l)	Method
Acetone	< 100	100	8240B (f), 524.1 (i), 624 (g)
Acrolein	< 100	100	8240B (f), 524.1 (i), 624 (g)
Acrylonitrile	< 100	100	8240B (f), 524.1 (i), 624 (g)
Benzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Bromodichloromethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Bromoform	< 5	5	8240B (f), 524.1 (i), 624 (g)
2-Butanone	< 100	100	8240B (f), 524.1 (i), 624 (g)
Carbon Disulfide	< 5	5	8240B (f), 524.1 (i), 624 (g)
Carbon Tetrachloride	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chloroform	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chlorodibromomethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chloroethane	< 10	10	8240B (f), 524.1 (i), 624 (g)
2-Chloroethyl Vinyl Ether	< 10	10	8240B (f), 524.1 (i), 624 (g)
1,2 Dibromoethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,2-Dichlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,3-Dichlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,4-Dichlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1-Dichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,2-Dichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1-Dichloroethylene	< 5	5	8240B (f), 524.1 (i), 624 (g)
cis-1,2-Dichloroethene	< 5	5	8240B (f), 524.1 (i), 624 (g)
trans-1,2-Dichloroethene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,2-Dichloropropane	< 5	5	8240B (f), 524.1 (i), 624 (g)
cis-1,3-Dichloropropene	< 5	5	8240B (f), 524.1 (i), 624 (g)
trans-1,3-Dichloropropene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Ethylbenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
2-Hexanone	< 50	50	8240B (f), 524.1 (i), 624 (g)
4-Methyl-2-Pentanone	< 50	50	8240B (f), 524.1 (i), 624 (g)
Methyl Bromide	< 10	10	8240B (f), 524.1 (i), 624 (g)
Methyl Chloride	< 10	10	8240B (f), 524.1 (i), 624 (g)

(f) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW 846

(g) 40 CFR, part 136

(i) Methods for the Determination of Organic Compounds (EPA 1988)

**MECKLENBURG COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
ENVIRONMENTAL LABORATORY**

Project: \_\_\_\_\_  
Site Sampled: \_\_\_\_\_

Field I.D.#: \_\_\_\_\_  
Lab I.D.#: 4299  
Date Sampled: \_\_\_\_\_

Sample Matrix: Water

**Volatile Organics<sub>(cont)</sub>**

Organics-Volatiles Parameter	Sample Results (ug/l)	Detection Limits (ug/l)	Method
Methylene Chloride	< 5	5	8240B (f), 524.1 (i), 624 (g)
MTBE	< 5	5	8240B (f), 524.1 (i), 624 (g)
Styrene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1,2,2 Tetrachloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Tetrachloroethylene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Toluene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1,1-Trichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1,2-Trichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Trichloroethylene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Trichlorofluoromethane	< 10	10	8240B (f), 524.1 (i), 624 (g)
Vinyl Acetate	< 5	5	8240B (f), 524.1 (i), 624 (g)
Vinyl Chloride	< 10	10	8240B (f), 524.1 (i), 624 (g)
Xylenes (total)	< 5	5	8240B (f), 524.1 (i), 624 (g)

(f) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW 846  
(g) 40 CFR, part 136  
(i) Methods for the Determination of Organic Compounds (EPA 1988)

MECKLENBURG COUNTY ENVIRONMENTAL PROTECTION LABORATORY

Field I.D.#: 192677

Dept.: HAZ

Lab I.D. #: 4300

Site Sampled: Glenn Gurley

Project:

Rec'd By: Garner

Address: 1635 Woodlee Rd.

Date Rec'd: 6-4-96

Source Sampled: Kitchen Faucet

Delivered to Lab On:

Time: 1610

Sampled By: L. Corbitt

Date: 6/4/96 Time: 3:40

DAM  
OPM

Date Sampled: 6/4/96 Time: 3:10

Delivered By: L. Corbitt

Chemical Composition

Inorganic %  
Organic %  
Moisture %

Radioactivity

Air  
Gross Alpha pCi/m<sup>3</sup>  
Gross Beta pCi/m<sup>3</sup>

Water  
Gross Alpha pCi/L  
Gross Beta pCi/L

Miscellaneous

Asbestos %  
Chlorophyll a ppb  
Corrosivity SI  
Dissolved Oxygen ppm  
Formaldehyde ppm  
Fecal Coliform Colonies/100 mL  
Fecal Strep Colonies/100 mL

Inorganic Non Metals

Acidity ppm  
Alkalinity ppm  
Bicarbonate ppm  
Carbonate ppm  
Chloride ppm  
Chlorine, Residual ppm  
Color units  
Cyanide, Total ppm  
Fluoride ppm  
Hardness ppm  
Nitrogen, Ammonia ppm  
Nitrogen, Nitrate + Nitrite ppm  
Nitrogen, Nitrate ppm  
Nitrogen, Nitrite ppm  
Nitrogen, Total Kjeldahl ppm  
pH units  
Phosphorus, Ortho ppm  
Phosphorus, Total ppm  
Phosphorus, Total Dissolved ppm  
Residue, Filterable ppm  
Residue, Suspended ppm  
Residue, Total ppm  
Specific Conductance umho/cm  
Sulfate ppm  
Sulfide ppm  
Turbidity NTU

Aggregate Organics

BOO<sub>5</sub> ppm  
COD ppm  
Oil and Grease ppm  
Phenol ppm  
Surfactant ppm

Organics

Acid Herbicide Report attached  
Organic Acid ppm  
PCB Report attached  
Pesticide Report attached  
Semivolatile Report attached  
TPH ppm  
VOC Report attached

Mineral Metals

Al ppm  
Ca ppm  
Co ppm  
Cu ppm  
Fe ppm  
Mg ppm  
Mn ppm  
K ppm  
Si ppm  
Na ppm  
Sn ppm  
Zn ppm

Toxic Metals

TCLP Metals  
Sb ppm  
As ppm  
Ba ppm  
Be ppm  
Cd ppm  
Cr ppm  
Pb ppm  
Hg ppm  
Ni ppm  
Se ppm  
Ag ppm  
Tl ppm

NOTE: ALL FIELD DATA MUST BE RECORDED TO MAINTAIN CHAIN OF CUSTODY

Remarks:

JUN 18 1996

Date Completed:

Laboratory Director: James T. Wood

**MECKLENBURG COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
ENVIRONMENTAL LABORATORY**

Project: \_\_\_\_\_

Field I.D.#: \_\_\_\_\_

Site Sampled: \_\_\_\_\_

Lab I.D.#: 4300

Date Sampled: \_\_\_\_\_

Sample Matrix: Water

**Volatile Organics**

Organics-Volatiles Parameter	Sample Results (ug/l)	Detection Limits (ug/l)	Method
Acetone	< 100	100	8240B (f), 524.1 (i), 624 (g)
Acrolein	< 100	100	8240B (f), 524.1 (i), 624 (g)
Acrylonitrile	< 100	100	8240B (f), 524.1 (i), 624 (g)
Benzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Bromodichloromethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Bromoform	< 5	5	8240B (f), 524.1 (i), 624 (g)
2-Butanone	< 100	100	8240B (f), 524.1 (i), 624 (g)
Carbon Disulfide	< 5	5	8240B (f), 524.1 (i), 624 (g)
Carbon Tetrachloride	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chloroform	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chlorodibromomethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chloroethane	< 10	10	8240B (f), 524.1 (i), 624 (g)
2-Chloroethyl Vinyl Ether	< 10	10	8240B (f), 524.1 (i), 624 (g)
1,2 Dibromoethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,2-Dichlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,3-Dichlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,4-Dichlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1-Dichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,2-Dichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1-Dichloroethylene	< 5	5	8240B (f), 524.1 (i), 624 (g)
cis-1,2-Dichloroethene	< 5	5	8240B (f), 524.1 (i), 624 (g)
trans-1,2-Dichloroethene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,2-Dichloropropane	< 5	5	8240B (f), 524.1 (i), 624 (g)
cis-1,3-Dichloropropene	< 5	5	8240B (f), 524.1 (i), 624 (g)
trans-1,3-Dichloropropene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Ethylbenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
2-Hexanone	< 50	50	8240B (f), 524.1 (i), 624 (g)
4-Methyl-2-Pentanone	< 50	50	8240B (f), 524.1 (i), 624 (g)
Methyl Bromide	< 10	10	8240B (f), 524.1 (i), 624 (g)
Methyl Chloride	< 10	10	8240B (f), 524.1 (i), 624 (g)

(f) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW 846

(g) 40 CFR, part 136

(i) Methods for the Determination of Organic Compounds (EPA 1988)

MECKLENBURG COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 ENVIRONMENTAL LABORATORY

Project: \_\_\_\_\_  
 Site Sampled: \_\_\_\_\_

Field I.D.#: \_\_\_\_\_  
 Lab I.D.#: 4300  
 Date Sampled: \_\_\_\_\_

Sample Matrix: Water

**Volatile Organics**<sub>(cont)</sub>

Organics-Volatiles Parameter	Sample Results (ug/l)	Detection Limits (ug/l)	Method
Methylene Chloride	< 5	5	8240B (f), 524.1 (i), 624 (g)
MTBE	< 5	5	8240B (f), 524.1 (i), 624 (g)
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1,1,2,2 Tetrachloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Tetrachloroethylene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Toluene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1,1-Trichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1,2-Trichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Trichloroethylene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Trichlorofluoromethane	< 10	10	8240B (f), 524.1 (i), 624 (g)
Vinyl Acetate	< 5	5	8240B (f), 524.1 (i), 624 (g)
Vinyl Chloride	< 10	10	8240B (f), 524.1 (i), 624 (g)
Xylenes (total)	< 5	5	8240B (f), 524.1 (i), 624 (g)

(f) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW 846  
 (g) 40 CFR, part 136  
 (i) Methods for the Determination of Organic Compounds (EPA 1988)





Facility Description: Size unknown Buildings yes

Disposal Methods Being Investigated Possible leakage of drums/containers.

Unusual Features on Site (dike integrity, power lines, terrain, etc.):  
The site is a residential property.

History of the Site: The well in question was drilled in September of 1992. The well is about five feet away from a small auto repair shop that has existed on the site for about 30 years.

C. HAZARD EVALUATION

The site can be toured in level D protection. Steel toed work boots will be worn while conducting the tour of the site. Tyvek suits (saranex in wet conditions) are recommended to keep clothing clean.

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 \_\_\_\_\_

Surveillance Equipment:

<u>          </u> HNU	<u>          </u> Detector Tubes and Pumps
<u>          </u> OVA	<u>          </u> O2 Meter
<u>          </u> Explosimeter	<u>          </u> 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.  
No sampling will be conducted at this time, sampling may take place on a  
later date.

EMERGENCY PRECAUTIONS

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

Location of Nearest Phone: on site (this is a residence)

Hospital (Address and Phone Number)

1. PRO MED-Freedom, 4221 Tuckaseegee Road, Charlotte, NC (701) 521-9435
2. Mercy Hospital, 2001 Vail Avenue, Charlotte, NC 28207 (704) 379-5000  
can handle chemically contaminated patients

Emergency Transportation Systems (Phone Numbers)

Fire 911

Ambulance 911

Rescue Squad 911

Emergency Route to Hospital 1. Take tom Sadler Road back to Route 27 and go south to Charlotte. The medical facility is where 27 crosses Tuckaseegee Road, which is about 5 miles from the site.

2. Take Tom Sadler Road back to Route 27 and go south to Charlotte. Stay on Route 27 and exit onto Route 16 East, take a right onto Queens Road, a left onto Randolph Road, then a left onto Caswell Road. The hospital is about 10 miles from the site.

PREVAILING WEATHER CONDITIONS AND FORECAST Partly cloudy with a chance of thunderstorms, high around 90.

**EQUIPMENT CHECKLIST**

- |   |   |
|---|---|
| <input type="checkbox"/> Air purifying respirator             | <input checked="" type="checkbox"/> First Aid Kit                 |
| <input type="checkbox"/> Cartridges for respirator            | <input checked="" type="checkbox"/> 3 gal. Deionized H2O          |
| <input type="checkbox"/> Eye Wash Unit                        | <input checked="" type="checkbox"/> Rain suit                     |
| <input type="checkbox"/> HNU                                  | <input checked="" type="checkbox"/> Gloves (PE/PVC/nitrile/cloth) |
| <input type="checkbox"/> OVA                                  | <input checked="" type="checkbox"/> Boots/Boot Covers             |
| <input type="checkbox"/> Explosimeter                         | <input checked="" type="checkbox"/> Coveralls (tyvek/saranex)     |
| <input type="checkbox"/> Radiation Monitor                    | <input type="checkbox"/> Eye Protection (goggles/shield)          |
| <input checked="" type="checkbox"/> Decontamination Materials | <input checked="" type="checkbox"/> 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 safeform.287b	Moses Cone Hospital 1200 N. Elm St. 27420	WILMINGTON 919-343-7046	New Hanover Mem. Hospital 2131 S. 17th St. 28401

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: 1,1-dichloroethylene

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C<sub>2</sub> H<sub>2</sub> Cl<sub>2</sub></u>	<u>1</u>
Natural Physical State at 25°C <u>liquid</u>	<u>1</u>
Vapor Pressure _____ mm Hg at 20°C	_____
Melting Point <u>-122.5</u> °F/°C Boiling Point <u>31.7</u> °F/°C	<u>1</u>
Flash Point (open or closed cup) <u>-15</u> °C/°F	<u>1</u>
Solubility - H <sub>2</sub> O <u>practically insoluble</u>	<u>1</u>
Other <u>soluble in organic solvents</u>	<u>1</u>

Physical Features: (odor, color, etc.) mild, sweet odor resembling that of chloroform. (1)

II. TOXICOLOGICAL DATA

Standards: 5 ppm (2) TLV      no data PEL      no data IDLH

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

Acute/Chronic Symptoms: Irritant to skin, mucous membranes, narcotic in high concentrations, has caused liver, kidney injury in experimental animals (1)

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

Chemical Name: 1,1-dichloroethylene

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes X No            
Toxic by-products                 
              

B. Flammability LEL      UEL          

C. Reactivity Hazard          

D. Corrosivity Hazard yes/no pH:          

Neutralizing agent:          

E. Radioactive Hazard		Exposure Rate	
Background	yes/no	<u>    </u>	<u>    </u>
Alpha particles	yes/no	<u>    </u>	<u>    </u>
Beta particles	yes/no	<u>    </u>	<u>    </u>
Gamma radiation	yes/no	<u>    </u>	<u>    </u>

IV. REFERENCES

1. The Merck Index, 11th Edition, 1989
2. Threshold Limit Values and Biological Exposure Indices, ACGIH, 1994-1995

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Carbon Tetrachloride

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>CCl4</u>	<u>1</u>
Natural Physical State at 25°C <u>liquid</u>	<u>2</u>
Vapor Pressure <u>91.3</u> mm Hg at 20°C	<u>2</u>
Melting Point <u>-9</u> °F/°C Boiling Point <u>170</u> °F/°C	<u>3</u>
Flash Point (open or closed cup) <u>none</u> °C/°F	<u>3</u>
Solubility - H <sub>2</sub> O <u>1 ml dissolves in 2000 ml water</u>	<u>1</u>
Other miscible with alcohol, benzene, <u>chloroform, ether, carbon disulfide, petroleum ether, oils</u>	<u>1</u>

Physical Features: (odor, color, etc.) Colorless, clear heavy liquid with an ether-like odor (1,3) IP = 11.47 eV, HNU sensitivity with 11.7 eV probe = 9.0.

II. TOXICOLOGICAL DATA

potential human

Standards: 5 ppm-skin (4) TLV 2 ppm (5) PEL carcinogen (3) IDLH

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

Acute/Chronic Symptoms: Central nervous system depression, nausea, vomiting, liver and kidney damage, skin irritation, potential human carcinogen (3)

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

Chemical Name: Carbon Tetrachloride

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes      No X  
Toxic by-products                       
  

3  
      
    

B. Flammability LEL            UEL           

C. Reactivity Hazard Incompatible with chemically active  
metals, such as sodium, potassium, and magnesium; fluorine; aluminum

3

Note: forms highly toxic phosgene gas when exposed to flames or welding arcs.

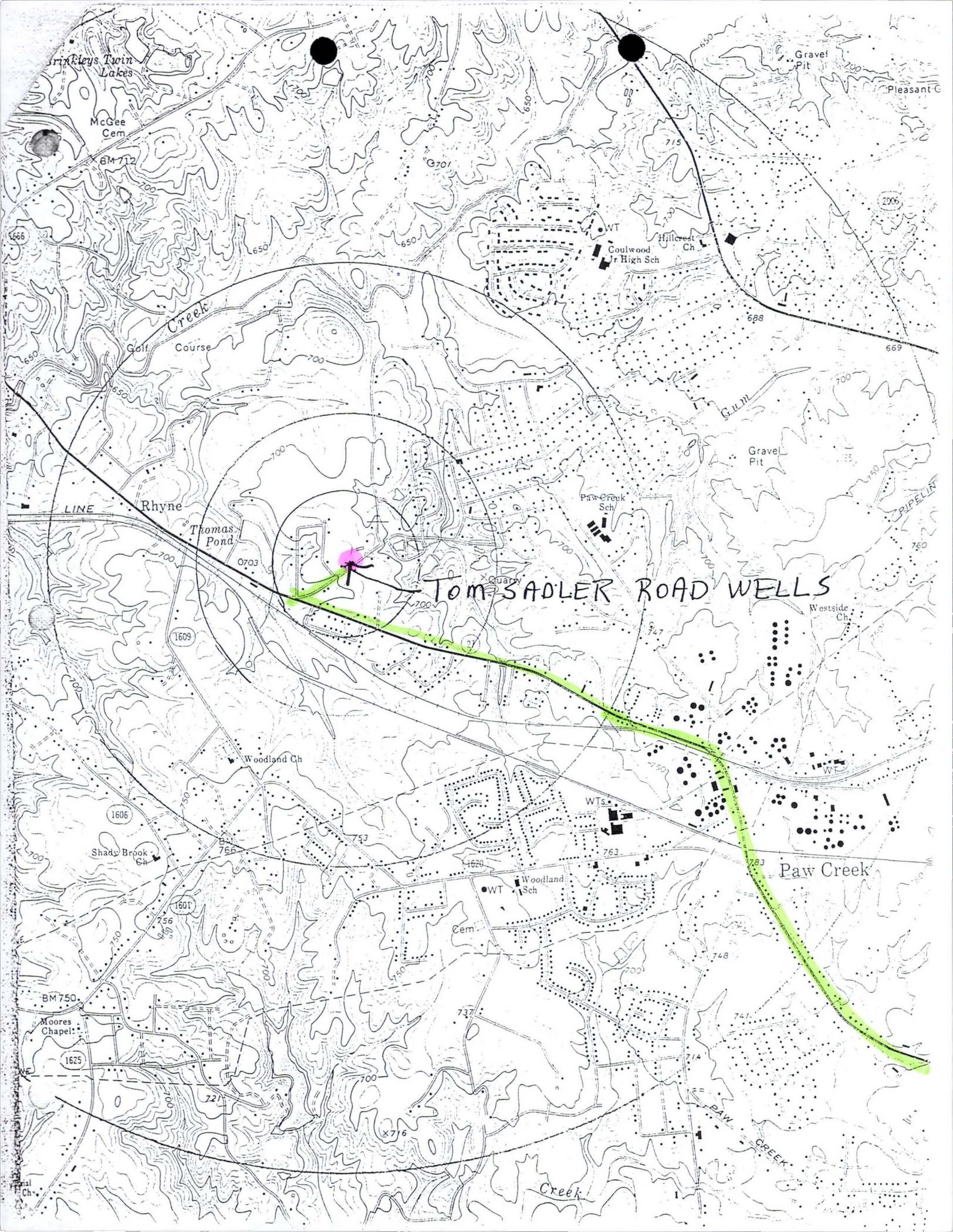
D. Corrosivity Hazard yes/no pH:           

Neutralizing agent:   

E. Radioactive Hazard		Exposure Rate	
Background	yes/no	<u>          </u>	<u>          </u>
Alpha particles	yes/no	<u>          </u>	<u>          </u>
Beta particles	yes/no	<u>          </u>	<u>          </u>
Gamma radiation	yes/no	<u>          </u>	<u>          </u>

IV. REFERENCES

- (1) The Merck Index, 11th Edition.
- (2) The Condensed Chemical Dictionary, Hawley, 11th Edition.
- (3) NIOSH Pocket Guide to Chemical Hazards, 1990.
- (4) Threshold Limit Values and Biological Exposure Indices for 1994-1995, ACGIH.
- (5) 29 CFR 1910.1000



TOM SADLER ROAD WELLS

Trinkleys Twin Lakes

McGee Cem

BM 712

6701

Gravel Pit  
Pleasant C

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Golf Course

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Thomas Pond

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Woodland Ch

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Shady Brook Ch

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BM 750

Moore's Chapel

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PIPELINE

Westside Ch

Paw Creek

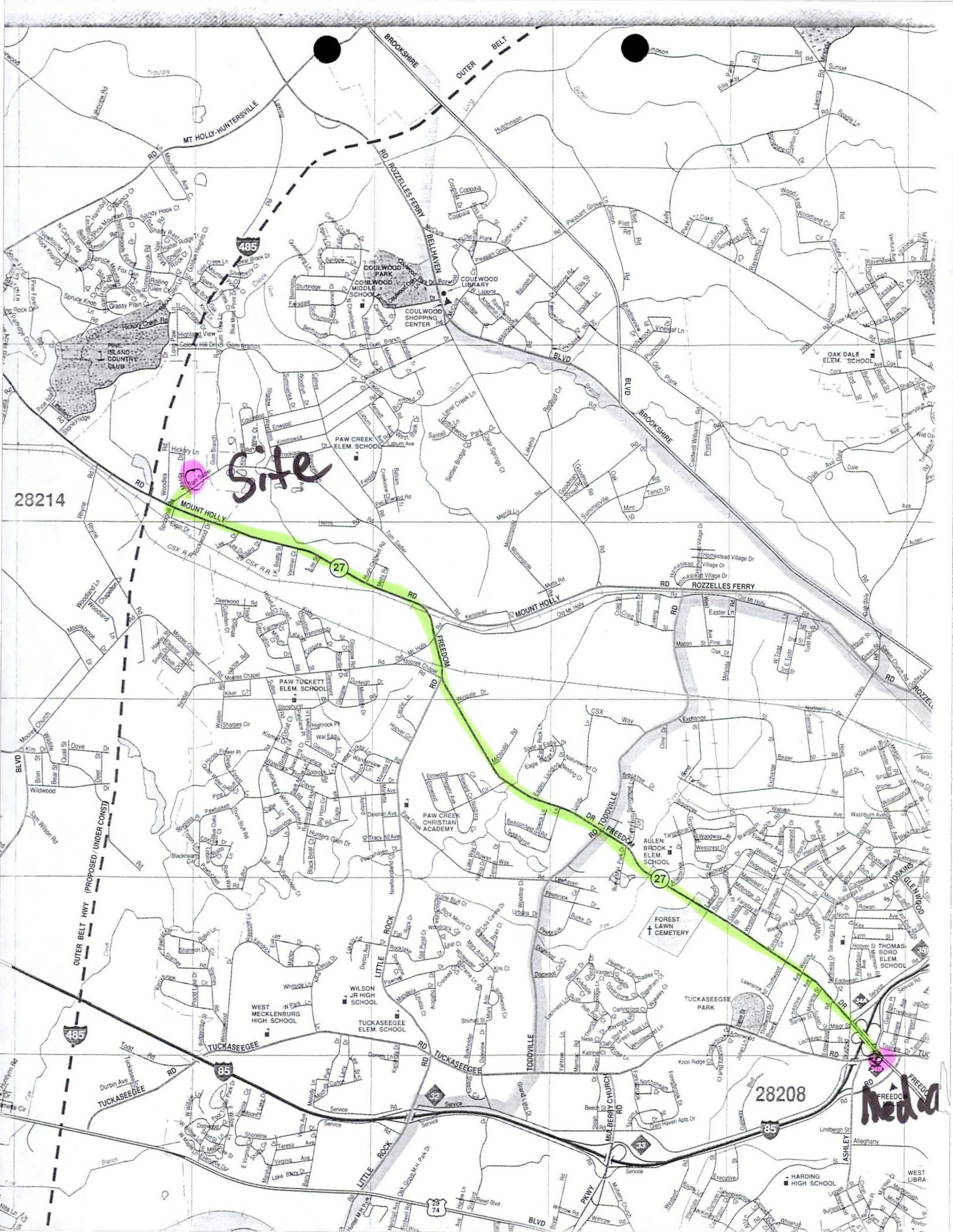
PAW CREEK

PAW CREEK

PAW CREEK

PAW CREEK

Creek



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Site

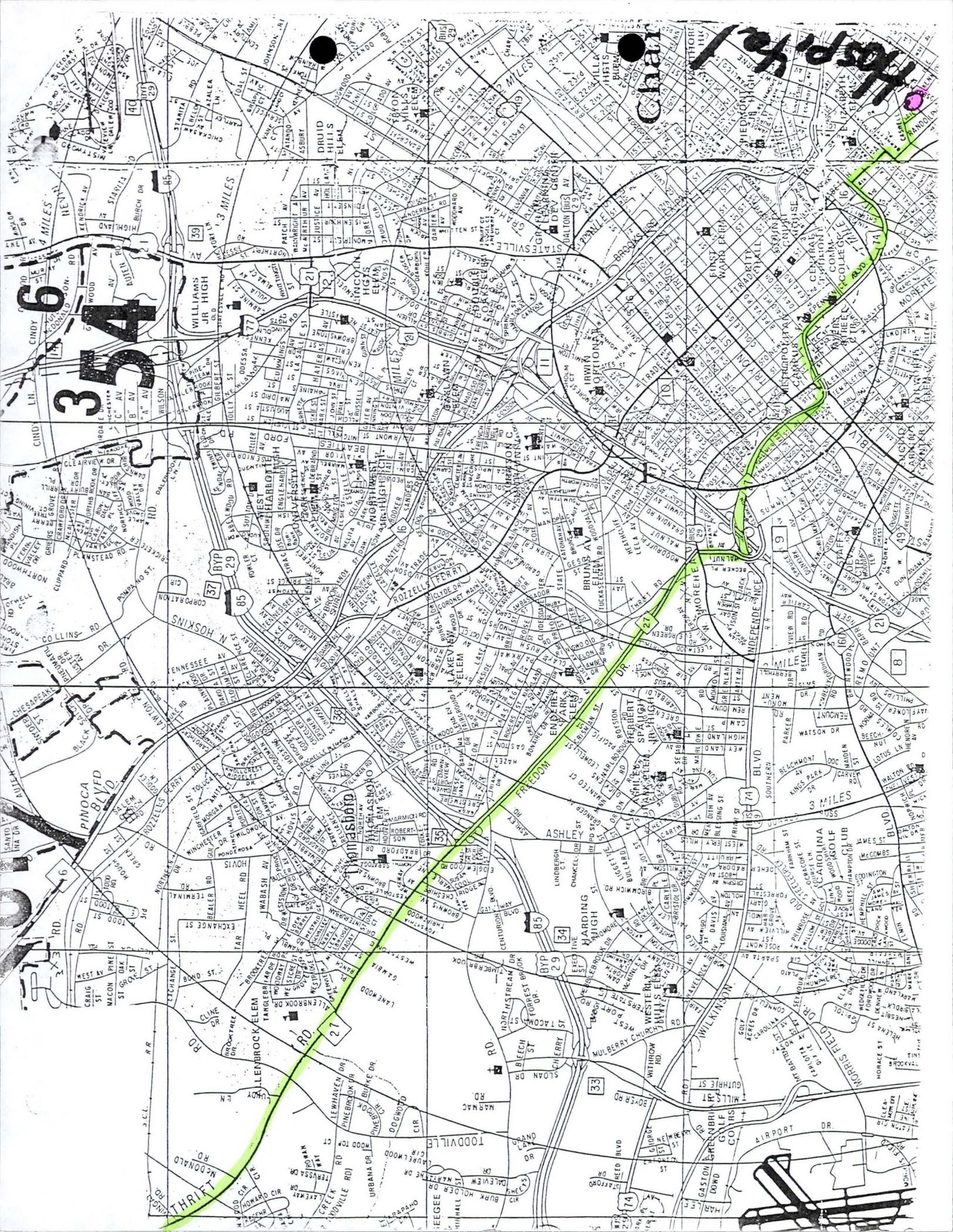
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Federal  
Trip Notification & Authorization

Prepared by: D. Lilky

Today's Date: 6-19-96

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

Site Trip

Date of Trip: 6-20-96

If trip date changed or cancelled note below:

Trip Date Changed To: \_\_\_\_\_ Cancelled: X

NCD#: 986 231 967  
City: Charlotte

Site Name: Tom Sadler Rd. Wells  
County: Mecklenburg

Reason for Trip: on-site reconnaissance

Name of Hotel (Overnight Trip): \_\_\_\_\_ Hotel Telephone Number: ( ) \_\_\_\_ - \_\_\_\_

Authorized by: David B. Lilly  
Industrial Hygienist

Project Team Leader: Jeanette Stanley

Assistants: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Attach To Notification Form: 1 copy each: Preliminary Assessment Form (First page only)  
Submit to the Industrial Hygienist 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: Mr. Henry Sutton Title: Program Mgr  
(Note if Dr., M.P., etc.)

Telephone Number: (704) 336-5500

Notes: Health Department Official Contacted: Mr. Henry Sutton  
Back Up Letter Required: Yes \_\_\_\_\_ No X

Notified Mr. Sutton on 6-19-96  
(DBC)

Note: Signed original to Data Manager

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

James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary  
William L. Meyer, Director

June 12, 1996



Mr. Henry Sutton  
Solid and Hazardous Waste Program Manager  
Mecklenburg County Health Department  
700 N. Tryon Street  
Charlotte, North Carolina 28202

RE: On-Site Reconnaissance  
Tom Sadler Road Wells  
NCD986231967

FILE COPY

Dear Mr. Sutton:

David Lilley of the NC Superfund Section spoke with Sarah Edwards of your office today to notify you that the NC Superfund Section will conduct a site reconnaissance of the subject site located in Mecklenburg County, North Carolina. The reconnaissance will be conducted on June 20, 1996 by Jeanette Stanley of the NC Superfund Section.

The purpose of the reconnaissance 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.

This reconnaissance 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 reconnaissance team at the site. If so, please contact Jeanette Stanley at (919) 733-2801 extension 316 and she will coordinate a meeting. I am enclosing background data on the site for your information.

If the reconnaissance indicated 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  
Site Evaluation and Removal Branch  
NC Superfund Section

Enclosures

cc: Phil Prete  
Doug Holyfield  
Pat Williamson  
Scott Ross  
David Lilley  
Donna Keith

Federal  
Trip Notification & Authorization

Prepared by: J. Stanley

Today's Date: 6/12/96

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

Site Trip

Date of Trip: 6/20/96

If trip date changed or cancelled note below:

Trip Date Changed To: \_\_\_\_\_ Cancelled: \_\_\_\_\_

NCD#: 986 231, 967 Site Name: Tom Sadler Rd. Wells  
City: Charlotte County: Mecklenburg

Reason for Trip: On-site Recon

Name of Hotel (Overnight Trip): \_\_\_\_\_ Hotel Telephone Number: ( ) \_\_\_\_\_

Authorized by: [Signature]  
Industrial Hygienist

Project Team Leader: J. Stanley

Assistants: Dean Willock (USEPA Removal)

Attach To Notification Form: 1 copy each: Preliminary Assessment Form (First page only)  
Submit to the Site Map  
Industrial Hygienist PA Transmittal Letter

(Please list appropriate County Health Department contact person to call to advise of trip)  
Environmental Supervisor or Health Director to call: Mr. Henry Sutton Title: Program Mgr. <sup>Sol. d. Haz. Waste</sup>  
(Note if Dr., M.P., etc.)  
Telephone Number: (704) 336-5500

Notes: Health Department Official Contacted: Sarah Edwards  
Back Up Letter Required: Yes X No \_\_\_\_\_  
Not. Fied Ms. Edwards for Henry Sutton  
on 6-12-96 (DRL)

Note: Signed original to Data Manager

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

James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary  
William L. Meyer, Director



May 15, 1996

Mr. and Mrs. Garland Mingus  
2128 Tom Sadler Road  
Charlotte, NC 28214

RE: Tom Sadler Road Wells Site Investigation  
NCD 986 231 967  
Charlotte, Mecklenburg County, NC

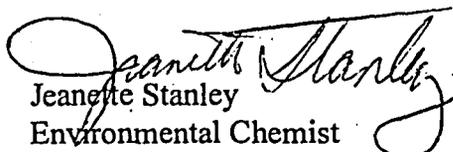
Dear Mr. and Mrs. Mingus:

On February 13, 1996, I collected samples on your property. We spoke by telephone yesterday morning about the sample results and I recommended that children not be allowed to play in the playhouse and drum storage area. The drum storage area on the southwest side of your garage (or left if facing from the road) contains a high level of lead, 3,000 mg/kg in the soil. Generally, the clean-up level of lead in soil is around 400 mg/kg for residential property. Arsenic was also detected at slightly elevated concentrations. A summary of contaminants detected in surface soil in the drum storage area is given below:

Lead	3,000 mg/kg	Copper	130 mg/kg
Cadmium	20 mg/kg	Arsenic	14 mg/kg
Chromium	166 mg/kg	bis(2-ethyl hexyl)phthalate	10.1 mg/kg

Since lead and arsenic were detected above acceptable levels, these results have been forwarded to the US EPA for evaluation. You will be contacted by them if it is decided that soil contaminants require immediate action. Attached is the analytical data. If you have any questions, you may call me at (919) 733-2801 ext. 316

Sincerely,

  
Jeanette Stanley  
Environmental Chemist  
NC Superfund Section

Attachments

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

James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary  
William L. Meyer, Director



May 9, 1996

Mr. William Cline  
9624 Mount Holly Road  
Charlotte, NC 28214

RE: Tom Sadler Road Wells Site Investigation  
NCD 986 231 967  
Charlotte, Mecklenburg County, NC

Dear Mr. Cline:

All results have been received. Enclosed is a copy of the analytical results from all samples taken on your property. In addition to the results I discussed with you in my April 3, 1996 memo to you, the pond sediment was found to contain 26 mg/kg chromium. This is well below any exposure risks to your cattle or dermal exposure to humans.

As you may recall, some unidentified peaks were noted in the organic analysis of your pond sediment. Further analysis could not identify these compounds. The chemist at the lab stated that they appeared to be in the category of essential oils-- plant-based oils used in perfumes and flavorings.

You will note that acetone and methylene chloride are reported at low levels in several samples. These compounds are used to extract samples in the lab and are often found as common laboratory contaminants in the sample results.

If you have any questions, please call me at (919) 733-2801 ext. 316. Thank you for allowing me to use your property for my sampling needs.

Sincerely,

A handwritten signature in cursive script that reads "Jeanette Stanley". The signature is written in black ink and is positioned above the typed name and title.

Jeanette Stanley  
Environmental Chemist  
NC Superfund Section

MEMO

DATE: April 3, 1996

TO: Mr. William Cline, owner of Thomas Pond  
9624 Mount Holly Road  
Charlotte, NC  
(704) 347-1550 (FAX)

FROM: Jeanette Stanley  
Environmental Chemist  
NC Superfund Section

*Jeanette Stanley*  
telephone # (919) 733-2801  
ext. 316

SITE: Tom Sadler Road Wells  
NCD 986 231 967  
Charlotte, Mecklenburg, North Carolina

I have received most of the results from the sampling on your property. As we discussed in February, I had originally planned to mail the complete set of data to you in one package after I received it all. I have been reviewing the data upon receipt and have found no contamination that warranted immediate notification. I have talked with the lab and they indicated that the results for metals in the pond sediment will take about another month to complete. All of the water analyses have been completed and sediments have been analyzed for all organic contaminants.

Your well showed no pesticides, hazardous metals or semivolatile organic compounds. A trace of acetone was reported (4J ppb). Acetone is a common laboratory contaminant and the groundwater standard is 700 ppb. I collected this sample at the tap by your driveway.

Thomas Pond water showed no hazardous metals or semivolatile organic compounds. A trace of methylene chloride (3J), also a common laboratory contaminant was reported in the pond water. The water flowing into Thomas Pond showed a trace of acetone and no hazardous metals or semivolatile organic compounds.

Thomas Pond sediment showed no semivolatile organic compounds. The metals results for the sediment samples have not been received. The sediment in the pond and the background sediment showed acetone at 20J ppb. The J indicates that the level was so low that the lab can not be certain that the quantity they report is exactly right. The pond sediment also showed a trace of chloroform and the background sediment showed a trace of 2-butanone. Some compounds were detected in the sediment that could not be identified by standard laboratory methods. I will notify you if further examination of these results provides any additional information.

Since you have expressed an interest, I will mail the results immediately if you would like and follow up with the sediment metals when I receive them, or I can hold these results and mail all results at once. Please let me know and confirm your mailing address, with Zip Code.

file

**SITE HEALTH AND SAFETY PLAN**

**A. General Information**

Site Name Tom Sadler Road Wells ID # NCD 986 231 967

Location 2128 Tom Sadler Road, Charlotte,  
Mecklenburg County, NC 28214

Proposed Date of Investigation February 13, 1996

Date of Briefing February 12, 1996

Date of Debriefing February 14, 1996

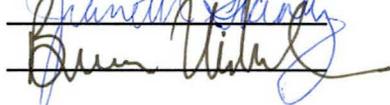
Nature of Visit (check one):

On-Site Reconnaissance	_____
Off-Site Reconnaissance	_____
Sampling	<u>  X  </u>
Sampling Overview	_____
Remediation Overview	_____

Health Department Official Contacted Ms. Sarah Edwards for Henry Sutton

Date of Contact January 31, 1996

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

<u>Personnel</u>	<u>Responsibilities</u>	<u>Signature</u>
Team 1 <u>Jeanette Stanley</u>	<u>team leader, sampling</u>	<u></u>
Team 1 <u>Bruce Nicholson</u>	<u>sampling</u>	<u></u>
Team 2 _____	_____	_____
Team 2 _____	_____	_____

**Plan Preparation:**

Prepared By: David Lilley, Industrial Hygiene Consultant

Reviewed By: Jack Butler, Superfund Section Chief




Facility Description: Size unknown Buildings yes  
Disposal Methods Being Investigated Possible leakage of drums/containers.  
Unusual Features on Site (dike integrity, power lines, terrain, etc.):  
The site is a residential property.

History of the Site: The well in question was drilled in September of 1992. The well is about five feet away from a small auto repair shop that has existed on the site for about 30 years.

#### C. HAZARD EVALUATION

The site can be toured and sampled in level D protection. PVC gloves will be worn while collecting water, soil, and sediment samples. PVC gloves over nitrile gloves will be worn if discolored soil or sediment is to be sampled. A tyvek suit will be carried to the sediment sampling location and will be worn if samples cannot be obtained without getting clothing muddy. Steel toed work boots will be worn while conducting tour and sampling the site. An OVA will be used to monitor breathing zone air while augering. If the OVA readings exceed background in the breathing zone, the sampling crew will stand upwind of the hole until the OVA reads background. If a background reading cannot be obtained within 15 minutes, the hole will be filled in and that area of the site will be evacuated. A tyvek suit (saranex in wet conditions), steel toed work boots, and nitrile gloves will be worn by the person augering.

#### 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.

Surveillance Equipment:

<u>          </u> HNU	<u>          </u> Detector Tubes and Pumps
<u>  X  </u> OVA	<u>          </u> O2 Meter
<u>          </u> Explosimeter	<u>          </u> 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 drinking water, surface water, sediment, surface  
and subsurface soil sampling.

EMERGENCY PRECAUTIONS

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

ID # NCD 986 231 967

Location of Nearest Phone: on site (this is a residence)

Hospital (Address and Phone Number)

Mercy Hospital, 2001 Vail Avenue, Charlotte, NC 28207 (704) 379-5000

can handle chemically contaminated patients

Emergency Transportation Systems (Phone Numbers)

Fire 911

Ambulance 911

Rescue Squad 911

Emergency Route to Hospital Take Tom Sadler Road back to Route 27 and go south to Charlotte. Stay on Route 27 and exit onto Route 16 East, take a right onto Queens Road, a left onto Randolph Road, then a left onto Caswell Road. The hospital is about 10 miles from the site.

PREVAILING WEATHER CONDITIONS AND FORECAST Sunny, high in the mid-40s.

**EQUIPMENT CHECKLIST**

- |   |   |
|---|---|
| <input type="checkbox"/> Air purifying respirator             | <input checked="" type="checkbox"/> First Aid Kit                   |
| <input type="checkbox"/> Cartridges for respirator            | <input checked="" type="checkbox"/> 3 gal. Deionized H2O            |
| <input checked="" type="checkbox"/> Eye Wash Unit             | <input checked="" type="checkbox"/> Rain suit                       |
| <input type="checkbox"/> HNU                                  | <input checked="" type="checkbox"/> Gloves (PE/PVC/nitrile/cloth)   |
| <input checked="" type="checkbox"/> OVA                       | <input checked="" type="checkbox"/> Boots/Boot Covers               |
| <input type="checkbox"/> Explosimeter                         | <input checked="" type="checkbox"/> Coveralls (tyvek/saranex)       |
| <input type="checkbox"/> Radiation Monitor                    | <input checked="" type="checkbox"/> Eye Protection (goggles/shield) |
| <input checked="" type="checkbox"/> Decontamination Materials | <input checked="" type="checkbox"/> Hard Hat                        |

**Poison Control Center - State Coordinator**

Duke University Medical Center

Telephone: 1-800-672-1697

Box 3024

Durham, NC 27710

ASHEVILLE Western NC Poison Control Center  
704-255-4490 Memorial Mission Hosp.  
509 Biltmore Ave. 28801

HENDERSONVILLE Margaret R. Pardee Memorial Hospital  
704-693-6522 Fleming St., 28739  
Ext. 555,556

**CHARLOTTE** Mercy Hospital  
704-379-5827 2001 Vail Ave, 28207

HICKORY Catawba Mem. Hosp.  
704-322-6649 Fairgrove Chur. Rd 28601

DURHAM Duke Univ. Med. Center  
1-800-672-1697 Box 3007, 27710

JACKSONVILLE Onslow Mem. Hospital  
919-577-2555 Western Blvd. 28540

GREENSBORO Moses Cone Hospital  
919-379-4105 1200 N. Elm St. 27420  
safeform.287a

WILMINGTON New Hanover Mem. Hospital  
919-343-7046 2131 S. 17th St. 28401





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HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: 1,1-dichloroethylene

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C<sub>2</sub>H<sub>2</sub>Cl<sub>2</sub></u>	<u>1</u>
Natural Physical State at 25°C <u>liquid</u>	<u>1</u>
Vapor Pressure _____ mm Hg at 20°C	_____
Melting Point <u>-122.5</u> °F/°C Boiling Point <u>31.7</u> °F/°C	<u>1</u>
Flash Point (open or closed cup) <u>-15</u> °C/°F	<u>1</u>
Solubility - H <sub>2</sub> O <u>practically insoluble</u>	<u>1</u>
Other <u>soluble in organic solvents</u>	<u>1</u>

Physical Features: (odor, color, etc.) mild, sweet odor resembling that of chloroform. (1)

II. TOXICOLOGICAL DATA

Standards: 5 ppm (2) TLV      no data PEL      no data IDLH

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

Acute/Chronic Symptoms: Irritant to skin, mucous membranes, narcotic in high concentrations, has caused liver, kidney injury in experimental animals (1)

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

Chemical Name: 1,1-dichloroethylene

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes X No            
Toxic by-products                                        

B. Flammability LEL      UEL               

C. Reactivity Hazard                                        

D. Corrosivity Hazard yes/no pH:                    

Neutralizing agent:                                        

E. Radioactive Hazard		Exposure Rate	
Background	yes/no	<u>    </u>	<u>    </u>
Alpha particles	yes/no	<u>    </u>	<u>    </u>
Beta particles	yes/no	<u>    </u>	<u>    </u>
Gamma radiation	yes/no	<u>    </u>	<u>    </u>

IV. REFERENCES

1. The Merck Index, 11th Edition, 1989  
2. Threshold Limit Values and Biological Exposure Indices,  
ACGIH, 1994-1995

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Carbon Tetrachloride

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>CCl4</u>	<u>1</u>
Natural Physical State at 25°C <u>liquid</u>	<u>2</u>
Vapor Pressure <u>91.3</u> mm Hg at 20°C	<u>2</u>
Melting Point <u>-9</u> °F/°C Boiling Point <u>170</u> °F/°C	<u>3</u>
Flash Point (open or closed cup) <u>none</u> °C/°F	<u>3</u>
Solubility - H <sub>2</sub> O <u>1 ml dissolves in 2000 ml water</u>	<u>1</u>
Other miscible with alcohol, benzene, <u>chloroform, ether, carbon disulfide, petroleum ether, oils</u>	<u>1</u>

Physical Features: (odor, color, etc.) Colorless, clear heavy liquid with an ether-like odor (1.3) IP = 11.47 eV, HNU sensitivity with 11.7 eV probe = 9.0.

II. TOXICOLOGICAL DATA

potential human

Standards: 5 ppm-skin (4) TLV 2 ppm (5) PELcarcinogen (3) IDLH

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

Acute/Chronic Symptoms: Central nervous system depression, nausea, vomiting, liver and kidney damage, skin irritation, potential human carcinogen (3)

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

Chemical Name: Carbon Tetrachloride

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes  No   
Toxic by-products \_\_\_\_\_  
\_\_\_\_\_

3

B. Flammability LEL \_\_\_\_\_ UEL \_\_\_\_\_

C. Reactivity Hazard Incompatible with chemically active  
metals, such as sodium, potassium, and magnesium; fluorine; aluminum

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Note: forms highly toxic phosgene gas when exposed to flames or welding arcs.

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.
- (2) The Condensed Chemical Dictionary, Hawley, 11th Edition.
- (3) NIOSH Pocket Guide to Chemical Hazards, 1990.
- (4) Threshold Limit Values and Biological Exposure Indices for 1994-1995, ACGIH.
- (5) 29 CFR 1910.1000

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Perchloroethylene

I. PHYSICAL/CHEMICAL PROPERTIES

Reference

Chemical Formula C2 C14 1  
Natural Physical State at 25oC liquid 2  
Vapor Pressure 14 mm Hg at 20oC 2  
Melting Point -2 oF/oC Boiling Point 250 oF/oC 2  
Flash Point (open or closed cup) N/A oC/oF 2  
Solubility - H<sub>2</sub>O 0.015% 2  
Other misc with alcohol, ether,  
chloroform, benzene 1

Physical Features: (odor, color, etc.) colorless  
liquid with an odor like ether or chloroform IP=9.32 eV  
(2) OVA Relative Response = 70%

II. TOXICOLOGICAL DATA

Standards: 25 ppm(3)TLV 25 ppm (4)PEL suspect human  
carcinogen (2)IDLH

Routes of Exposure: Inhalation, Ingestion, Skin and/or  
Eye Contact (2)

Acute/Chronic Symptoms: Irritation of eyes, nose, and  
throat, nausea, flushed face and neck, vertigo, dizziness,  
incoordination, headache, 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: Perchloroethylene

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes  No  2

Toxic by-products \_\_\_\_\_

B. Flammability LEL none UEL none 2

C. Reactivity Hazard Incompatible with strong oxidizers, chemically active metals, such as barium, lithium, and beryllium & barium; caustic soda; sodium hydroxide, potash (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, 1990
3. Threshold Limit Values and Biological Exposure Indices for 1994-95, ACGIH.
4. CFR 1910.1000.

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

James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary  
William L. Meyer, Director



January 31, 1996

Mr. Henry Sutton  
Solid and Hazardous Waste Program Manager  
Mecklenburg County Department of Environmental Protection  
700 North Tryon Street  
Charlotte, NC 28202

FILE COPY

RE: Site Investigation  
Tom Sadler Road Wells, NCD986231967  
Expanded Site Investigation  
Consolidated Warehouse, NCD130708126

Dear Mr. Sutton:

David Lilley of the North Carolina Superfund Section spoke with Ms. Sarah Edwards of your office today to notify you that the NC Superfund Section will conduct site inspections of the subject sites located in Mecklenburg County, North Carolina. The inspection dates are February 13, 1996 for Tom Sadler Road Wells, and March 11-14, 1996 for Consolidated Warehouse. Jeanette Stanley of the NC Superfund Section will conduct the inspections.

The purpose of the inspections is to determine if the sites pose a hazard to public health or the environment because of releases of contaminants to soil, surface water, groundwater, or air. The inspection teams will take samples on and around the sites to determine if hazardous conditions exist. Additionally, they will locate all nearby water supplies (surface and groundwater, community and private) and any close sensitive environments, schools, and day care centers.

These inspections are not emergency situations but are normal steps in the evaluation of all uncontrolled and unregulated potential hazardous waste sites in North Carolina. You may want to have your representative meet the inspection team at the sites. If so, please contact Jeanette Stanley at (919) 733-2801, ext. 316 and she will coordinate a meeting. I am enclosing background data on the sites for your information.

If the inspections indicate the need for future study of the sites, 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  
NC Superfund Section

Enclosure

cc: Phil Prete  
Doug Holyfield  
Pat Williamson  
Scott Ross  
David Lilley  
Donna Keith

Federal  
Trip Notification & Authorization

Prepared by: Jeanette Stanley

Today's Date: 1/29/96

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

Site Trip.

Date of Trip: Feb 13, 96

If trip date changed or cancelled note below:

Trip Date Changed To: \_\_\_\_\_ Cancelled: \_\_\_\_\_

NCD#: 986 231 967 Site Name: Tom Sadler Rd. Wells  
City: Charlotte County: Mecklenburg

Reason for Trip: S1 [soil (surface + subsurface), drinking water wells, surface water + sediment]

Name of Hotel (Overnight Trip): N/A Hotel Telephone Number: ( ) \_\_\_\_\_

Authorized by: David B. [Signature]  
Industrial Hygienist

Project Team Leader: J. Stanley

Assistants: [Signature], B. Nicholson

Attach To Notification Form: 1 copy each: Preliminary Assessment Form (First page only)  
Submit to the Industrial Hygienist 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: Mr. Henry Sutton Title: Solid & Haz. Waste Program Mgr.  
(Note if Dr., M.P., etc.)

Telephone Number: (704) 336-5500

Notes: Health Department Official Contacted: Ms. Sarah Edwards  
Back Up Letter Required: Yes  No

Notified Ms Edwards for Mr Sutton on  
1-31-96 (DBL)

Note: Signed original to Data Manager



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4

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

RECEIVED

SEP 18 1995

SUPERFUND SECTION

September 11, 1995

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

Dear Ms. DeRosa:

The following reports have recently been reviewed and accepted by EPA - Region IV Site Assessment Section:

**Preliminary Assessment**

Tom Sadler Road Wells  
Mecklenburg County  
NCD 986 231 967

Further Action (FA)

**Combined Preliminary Assessment / Site Inspections (PA/SIs)**

Jimmy Green Metals  
Nash County  
NC0 000 195 743

FA

**Site Inspections (SIs)**

Champion Landfill No. 1  
Haywood County  
NCD 986 188 001

No Further Remedial  
Action Planned (NFRAP)

Champion Landfill No. 2  
Haywood County  
NCD 986 188 019

NFRAP

Champion Landfill No. 3  
Haywood County  
NCD 986 188 027

NFRAP

Site Inspection Prioritizations (SIPs)

Amoco New Hanover County NCD 040 049 173	NFRAP
Ashe Pattern Shop Gaston County NCD 986 175 636	NFRAP
Gen. Elect. Med. Steam Turbine Durham County NCD 072 018 252	NFRAP
National Starch & Chemical Brunswick County NCD 091 572 073	NFRAP
Northeast Chemical Co. New Hanover County NCD 053 530 234	NFRAP
Texasgulf, Inc. Beaufort County NCD 041 519 364	FA
Union Carbide Corp. Pitt County NCD 003 184 249	NFRAP
Weyerhaeuser Co/ Plymouth Martin County NCD 991 278 540	FA
Wilmington Branch Brunswick County NCD 001 704 980	NFRAP

Enclosed please find the Remedial Site Assessment Decision Forms for each report generated by the North Carolina Superfund program and a copy of the actual report generated by the EPA Contractor.

If you have any questions concerning these site decisions, please call me at (404) 347-7791, Extension 2031.

Sincerely,



Cynthia K. Gurley  
North Carolina, PO

REMEDIAL SITE ASSESSMENT DECISION - EPA REGION IV

RECEIVED

*nc*

Site Name: Tom Sadler Road Wells

EPA ID#: NCD 986 231 967

SEP 18 1995

Alias Site Names: \_\_\_\_\_

SUPERFUND SECTION

City: Charlotte

County or Parish: Mecklenburg

State: NC

Refer to Report Dated: July 1995

Report type: Preliminary Assessment

Report developed by: Jeanette Stanley, NCDEHNR

**DECISION:**

1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:

<input type="checkbox"/> <input type="checkbox"/> 1a. Site does not qualify for further remedial site assessment under CERCLA (No Further Remedial Action Planned - NFRAP)	<input type="checkbox"/> <input type="checkbox"/> 1b. Site may qualify for further action, but is deferred to:	<input type="checkbox"/> <input type="checkbox"/> RCRA
		<input type="checkbox"/> <input type="checkbox"/> NRC

2. Further Assessment Needed Under CERCLA:      2a. (optional) Priority:   Higher   Lower

2b. Activity   PA   ESI  
 Type:   SI   HRS evaluation

Other: \_\_\_\_\_

**DISCUSSION/RATIONALE:**

There is documented release of contaminants to groundwater, particularly with chlorinated solvents. 15 of the contaminated drinking water wells within 1/4 mile of the site are Level I, but below drinking water standards. A surface water intake is located 8 miles below the PPE. The closest wetland is at the PPE, at the headwaters of Thomas Pond, a fishery.

On-site soil sampling should be conducted to determine source areas and constituents.

There are several other known and suspected sources of chlorinated solvents within one to two miles of the site. Attribution of the contaminated wells to these sources has not been completed.

Report Reviewed and Approved by: Cynthia K. Gurley Signature: *Cynthia Gurley* Date: 08/29/95

Site Decision Made by: Cynthia K. Gurley Signature: *Cynthia Gurley* Date: 08/29/95

Tom Sadler <sup>RD</sup> wells

MEMO

DATE: August 22, 1995  
TO: File  
FROM: Jeanette Stanley, Environmental Chemist,  
NC Superfund Section  
RE: Livingston Coatings  
Charlotte, Mecklenburg County, NC

I spoke with Karen Connell, NC DEM Mooresville Regional Office (704) 663-1699. She said that tetrachloroethylene had been recently detected in a shallow monitoring well on the Livingston Coating property. The level was 1500 ppb PCE. They claim that Fontaine Modification Co., owned by Don-Mar Properties, is responsible for the contamination. She sent both properties an affidavit requiring information. The Fontaine response did not provide all of the information that she needed. Fontaine said that they had leased the property for three years and their purchase order records to not indicate that they ever used PCE. She plans on reviewing their MSDS sheets in person.

SITE HEALTH AND SAFETY PLAN

A. General Information

Site Name Tom Sadler Road Wells ID # NCD 986 231 967

Location 2128 Tom Sadler Road, Charlotte,  
Mecklenburg County, NC 28214

Proposed Date of Investigation May 3, 1995

Date of Briefing May 2, 1995

Date of Debriefing May 4, 1995

Nature of Visit (check one): On-Site Reconnaissance   X    
Off-Site Reconnaissance \_\_\_\_\_  
Sampling \_\_\_\_\_  
Sampling Overview \_\_\_\_\_  
Remediation Overview \_\_\_\_\_

Health Department Official Contacted Ms. Terry Webb for John Gibson

Date of Contact April 24, 1995

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

	<u>Personnel</u>	<u>Responsibilities</u>	<u>Signature</u>
Team 1	<u>Jeanette Stanley</u>	<u>team leader, recon</u>	<u>Jeanette Stanley</u>
Team 1	<u>Bob Gandley</u>	<u>reconnaissance</u>	<u>Bob Gandley</u>
Team 2	_____	_____	_____
Team 2	_____	_____	_____

Plan Preparation:

Prepared By: David Lilley, Industrial Hygiene Consultant

Reviewed By: Jack Butler, Environmental Engineering Supervisor

David Lilley  
Jack Butler

**B. SITE/WASTE CHARACTERISTICS**

Waste Type(s)  Liquid  Solid  Sludge  Gas  Vapor  
 Characteristics  Corrosive  Ignitable  Radioactive  
 Volatile  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
<u>1,1-dichloroethylene</u>	<u>Odor Threshold (OT) = no data</u>	<u>5 ppm</u>
<u>Carbon tetrachloride</u>	<u>OT = 0.0011 - 7.7 ppm</u>	<u>2 ppm</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

**UNDERGROUND UTILITIES CHECKLIST**

Utility	Locator/Contact Person	Phone #	Date of Location
Power	<u>NA</u>	<u> </u>	<u> </u>
Telephone	<u>NA</u>	<u> </u>	<u> </u>
Gas	<u>NA</u>	<u> </u>	<u> </u>
Water	<u>NA</u>	<u> </u>	<u> </u>
Sewer	<u>NA</u>	<u> </u>	<u> </u>

Call made by:



Surveillance Equipment:

<u>          </u> HNU	<u>          </u> Detector Tubes and Pumps
<u>          </u> OVA	<u>          </u> O2 Meter
<u>          </u> Explosimeter	<u>          </u> 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.  
No sampling will be conducted at this time, sampling may take place on a  
later date.

EMERGENCY PRECAUTIONS

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

Location of Nearest Phone: on site (this is a residence)

Hospital (Address and Phone Number)

Mercy Hospital, 2001 Vail Avenue, Charlotte, NC 28207 (704) 379-5000

can handle chemically contaminated patients

Emergency Transportation Systems (Phone Numbers)

Fire 911

Ambulance 911

Rescue Squad 911

Emergency Route to Hospital Take Tom Sadler Road back to Route 27 and go south to Charlotte. Stay on Route 27 and exit onto Route 16 East, take a right onto Queens Road, a left onto Randolph Road, then a left onto Caswell Road. The hospital is about 10 miles from the site.

PREVAILING WEATHER CONDITIONS AND FORECAST Partly cloudy with a chance of showers, highs in the mid 70s.

**EQUIPMENT CHECKLIST**

<input type="checkbox"/> Air purifying respirator	<input checked="" type="checkbox"/> First Aid Kit
<input type="checkbox"/> Cartridges for respirator	<input checked="" type="checkbox"/> 3 gal. Deionized H2O
<input type="checkbox"/> Eye Wash Unit	<input checked="" type="checkbox"/> Rain suit
<input type="checkbox"/> HNU	<input checked="" type="checkbox"/> Gloves (PE/PVC/nitrile/cloth)
<input type="checkbox"/> OVA	<input checked="" type="checkbox"/> Boots/Boot Covers
<input type="checkbox"/> Explosimeter	<input checked="" type="checkbox"/> Coveralls (tyvek/saranex)
<input type="checkbox"/> Radiation Monitor	<input type="checkbox"/> Eye Protection (goggles/shield)
<input checked="" type="checkbox"/> Decontamination Materials	<input checked="" type="checkbox"/> 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



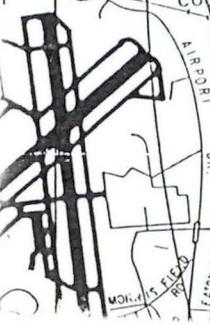


**3546**

**3546**

**Char**

**Winterville**



**Thomasboro**

**Weldon**

**Winterville**

**WILKINSON**

TO BE COMPLETED BY PROJECT MANAGER

PROJECT MANAGER: Jeanette Stanley

PROJECT: Tom Sadler Rd. Well

INVESTIGATION DATE: May 3, 1995

RECONNAISSANCE \_\_\_\_\_ SAMPLING VISIT \_\_\_\_\_ REMEDIATION/SAMPLING OVERVIEW \_\_\_\_\_

Materials Used (Please insert a number in the blank)

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

Respirator Worn By

Approximate Time in Respirator

_____	_____
_____	_____
_____	_____

Air Monitoring Data (Include Calibration Reading)

HNU: \_\_\_\_\_

OVA: \_\_\_\_\_

Explosimeter: \_\_\_\_\_

Radiation Meter: \_\_\_\_\_

Were there any injuries? \_\_\_\_\_ If yes, explain: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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: 1,1-dichloroethylene

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C<sub>2</sub>H<sub>2</sub>Cl<sub>2</sub></u>	<u>1</u>
Natural Physical State at 25°C <u>liquid</u>	<u>1</u>
Vapor Pressure _____ mm Hg at 20°C	_____
Melting Point <u>-122.5</u> °F/°C Boiling Point <u>31.7</u> °F/°C	<u>1</u>
Flash Point (open or closed cup) <u>-15</u> °C/°F	<u>1</u>
Solubility - H <sub>2</sub> O <u>practically insoluble</u>	<u>1</u>
Other <u>soluble in organic solvents</u>	<u>1</u>

Physical Features: (odor, color, etc.) mild, sweet odor resembling that of chloroform. (1)

II. TOXICOLOGICAL DATA

Standards: 5 ppm (2) TLV      no data PEL      no data IDLH

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

Acute/Chronic Symptoms: Irritant to skin, mucous membranes, narcotic in high concentrations, has caused liver, kidney injury in experimental animals (1)

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

Chemical Name: 1,1-dichloroethylene

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes X No            
Toxic by-products                 
              

B. Flammability LEL      UEL          

C. Reactivity Hazard          

D. Corrosivity Hazard yes/no pH:          

Neutralizing agent:          

E. Radioactive Hazard		Exposure Rate	
Background	yes/no	<u>    </u>	<u>    </u>
Alpha particles	yes/no	<u>    </u>	<u>    </u>
Beta particles	yes/no	<u>    </u>	<u>    </u>
Gamma radiation	yes/no	<u>    </u>	<u>    </u>

IV. REFERENCES

1. The Merck Index, 11th Edition, 1989  
2. Threshold Limit Values and Biological Exposure Indices,  
ACGIH, 1994-1995

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Carbon Tetrachloride

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>CCl4</u>	<u>1</u>
Natural Physical State at 25°C <u>liquid</u>	<u>2</u>
Vapor Pressure <u>91.3</u> mm Hg at 20°C	<u>2</u>
Melting Point <u>-9</u> °F/°C Boiling Point <u>170</u> °F/°C	<u>3</u>
Flash Point (open or closed cup) <u>none</u> °C/°F	<u>3</u>
Solubility - H <sub>2</sub> O <u>1 ml dissolves in 2000 ml water</u>	<u>1</u>
Other <u>miscible with alcohol, benzene,</u>	<u>1</u>
<u>chloroform, ether, carbon disulfide, petroleum ether, oils</u>	

Physical Features: (odor, color, etc.) Colorless, clear heavy liquid with an ether-like odor (1.3) IP = 11.47 eV, HNU sensitivity with 11.7 eV probe = 9.0.

II. TOXICOLOGICAL DATA

potential human

Standards: 5 ppm-skin (4) TLV 2 ppm (5) PELcarcinogen (3) IDLH

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

Acute/Chronic Symptoms: Central nervous system depression, nausea, vomiting, liver and kidney damage, skin irritation, potential human carcinogen (3)

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

Chemical Name: Carbon Tetrachloride

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes    No X  
Toxic by-products                                        
     

  3  

B. Flammability LEL            UEL                      

C. Reactivity Hazard Incompatible with chemically active   3    
metals, such as sodium, potassium, and magnesium; fluorine; aluminum

Note: forms highly toxic phosgene gas when exposed to flames or welding arcs.

D. Corrosivity Hazard yes/no pH:                      

Neutralizing agent:      

E. Radioactive Hazard		Exposure Rate	
Background	yes/no	<u>          </u>	<u>          </u>
Alpha particles	yes/no	<u>          </u>	<u>          </u>
Beta particles	yes/no	<u>          </u>	<u>          </u>
Gamma radiation	yes/no	<u>          </u>	<u>          </u>

IV. REFERENCES

- (1) The Merck Index, 11th Edition.
- (2) The Condensed Chemical Dictionary, Hawley, 11th Edition.
- (3) NIOSH Pocket Guide to Chemical Hazards, 1990.
- (4) Threshold Limit Values and Biological Exposure Indices for 1994-1995, ACGIH.
- (5) 29 CFR 1910.1000

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



James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary  
William L. Meyer, Director

April 24, 1995

Mr, John Gibson  
Solid and Hazardous Waste Program Manager  
Mecklenburg County Department of Environmental Protection  
700 North Tryon Street  
Charlotte, North Carolina 28202

RE: Preliminary Assessment  
On-Site Reconnaissance  
Tom Sadler Road Wells  
NCD986231967

Dear Mr. Gibson:

David Lilley of the NC Superfund Section spoke with Ms. Terry Webb of your office today to notify you that the NC Superfund Section will conduct a site reconnaissance of the subject site located in Mecklenburg County, North Carolina. The reconnaissance will be conducted on May 3, 1995 by Jeanette Stanley of the NC Superfund Section.

The purpose of the reconnaissance 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.

This reconnaissance 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 reconnaissance team at the site. If so, please contact Jeanette Stanley at (919) 733-2801 and she will coordinate a meeting. I am enclosing background data on the site for your information.

If the reconnaissance 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: Phil Prete  
Doug Holyfield  
Pat Williamson  
Scott Ross  
David Lilley  
Donna Keith

P.O. Box 27687, Raleigh, North Carolina 27611-7687  
An Equal Opportunity Affirmative Action Employer

Telephone 919-733-4996 FAX 919-715-3605  
50% recycled/ 10% post-consumer paper

Federal  
Trip Notification & Authorization

Prepared by: J. Stanley

Today's Date: 4/20/95

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

Site Trip.

Date of Trip: May 3, 1995  
If trip date changed or cancelled note below:  
Trip Date Changed To: \_\_\_\_\_ Cancelled: \_\_\_\_\_

NCD#: 986 231 967 Site Name: Tom Sadler Road Wells  
City: Charlotte County: Mecklenburg

Reason for Trip: Preliminary Assessment, On-Site Recon

Name of Hotel (Overnight Trip): none Hotel Telephone Number: ( ) \_\_\_\_\_ - \_\_\_\_\_

Authorized by: [Signature]  
Industrial Hygienist

Project Team Leader: J. Stanley  
Assistants: B. Gandley, \_\_\_\_\_

Attach To Notification Form: 1 copy each: Preliminary Assessment Form (First page only)  
Submit to the Industrial Hygienist 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: Mr. John Gibson Title: Solid and Hazardous Waste Program Manager  
(Note if Dr., M.P., etc.)  
Telephone Number: (704) 336-3500

Notes: Health Department Official Contacted: Ms. Terry Webb  
Back Up Letter Required: Yes  No   
Notified Ms. Webb on 4-24-95  
for Mr. Gibson. [Signature]

Note: Signed original to Data Manager



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

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

RECEIVED  
NOV 03 1993  
SUPERFUND SECTION

Date: NOV 01 1993

Mr. Mike Kelly  
Director of Solid Waste  
North Carolina Division of  
Solid Waste Management  
P.O. Box 27687  
Raleigh, North Carolina 27611-7687



Dear Mr. Kelly:

We are pleased to provide a copy of the Action Memorandum concerning the request and documentation of a proposed removal action for the Tom Sadler Road Wells Site located in Charlotte, Mecklenburg County, North Carolina. If you have any questions or comments concerning this document, please contact the On-Scene Coordinator at the following address:

Don Rigger  
U.S. Environmental Protection Agency  
Waste Management Division  
Emergency Response and Removal Branch  
345 Courtland St., NE  
Atlanta, Georgia 30365  
(404) 347-3931 x6140

Sincerely,

Myron D. Lair, Chief  
Emergency Response and Removal Branch

Enclosure



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

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

ACTION MEMORANDUM

DATE: OCT 29 1993

SUBJECT: Removal Authorization for Tom Sadler Road Wells Site in  
Charlotte, Mecklenburg County, North Carolina

FROM: R. Donald Rigger, On-Scene Coordinator

TO: File

I. ISSUE

This memorandum is for authorization to proceed with a removal action for \$18,000 at the Tom Sadler Road Wells Site located in Charlotte, North Carolina. The drinking water supply from a contaminated well serves two residences. The contaminants were determined to be carbon tetrachloride and 1,1-dichloroethylene. Verbal consultation with ATSDR and the state toxicologists determined that the water is unsuitable for bathing or ingestion. Consequently, provisions for an alternate source of potable water were made available to the residences served by this well.

II. BACKGROUND

A. Site Description

1. Physical Location

The Site is in a residential neighborhood. The affected residences are located next to each other. The well sits on the property of Mr. Mingus, who resides at 2128 Tom Sadler Road, Charlotte, North Carolina, 28214. The well also serves the home of his neighbor, who is also the brother of Mr. Mingus.

2. General Character of the Site

The well is a two inch diameter well with a total depth of 95 feet. The well was drilled in September of 1992 and was intended to replace the user's old well which had developed a collapsed casing. The well under investigation is about five feet away from a small auto

repair establishment that Mr. Mingus operated for about thirty years.

### 3. NPL Status

The Site is not on the NPL, and it is not anticipated that it will be added to the list.

#### B. Incident/Release Characteristics

On June 29, 1993, ERRB was notified by the Mecklenburg County (North Carolina) Environmental Protection Division (MCEPD) of a drinking water emergency in the Paw Creek area of Charlotte. MCEPD reported a private drinking water well contaminated with six volatile organic compounds. Two of the compounds identified, carbon tetrachloride and 1,1-dichloroethylene, exceeded EPA's Removal Action Levels (RALs). Carbon tetrachloride exceeded RALs of 30 ug/l by two times and 1,1-dichloroethylene exceeded RALs of 70 ug/l by three times. Both ATSDR and the state toxicologist agreed that the situation warranted a recommendation that all use of the contaminated water, including bathing, should be discontinued. Mr. Rusty Rozelle, a representative of MCEPD, informed EPA that the local government does not have the funds available for providing an alternative water supply. Samples of the well were sent to EPA's analytical labs at the Environmental Services Division (ESD) in order to confirm The MCEPD's laboratory results.

#### C. Quantities and Types of Substances Present

ESD's analysis of the contaminated well confirmed the elevated concentration of 1,1-dichloroethylene (170 ug/l). In fact, the levels were indeed more than two times the RALs (70 ug/l). The analysis did not confirm the presence of carbon tetrachloride. Nevertheless, confirmation of one of the contaminants warranted a removal action.

#### D. Previous Actions to Abate Threat

EPA and MCEPD informed the users of the well that all use of the contaminated water, including bathing, should be discontinued.

### III. THREAT TO THE PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT

#### A. Threats to the Public Health or Welfare

This Site poses a threat to the public health because the potable water supply to the residences has been contaminated. The removal program guidance for contaminated

drinking water sites (OSWER Directive 9360.1-10) states that the removal action level for 1,1-dichloroethylene is 70 ug/l. Provision of alternate water supplies is warranted whenever this removal action level is exceeded. Ingestion and inhalation pathways must be evaluated when potable water supplies are contaminated with volatile organic compounds (VOCs). Concentrations as high as those at this site pose a threat to human health through both the ingestion and inhalation pathways. Therefore, an alternative source of all household water, not just bottled water for drinking and cooking, must be provided.

B. Threats to the Environment

Groundwater in the area of the site is discharged at the land surface in seeps and springs which feed surface water bodies. The contaminants now present in the groundwater would pose a threat to surface water quality.

IV. ENFORCEMENT

See attachment 1.

V. PROPOSED ACTIONS AND COSTS

A. Proposed Actions

Emergency measures were required in order to protect the welfare of the affected residents. These measures were taken under the On-Scene Coordinator's emergency authority. Toxicologists with the State of North Carolina and the ATSDR advised that the contaminant concentration, given that the contaminant is a VOC, was so high that all use of the water should be discontinued. Therefore, as a temporary measure, the affected families were told to avoid using the contaminated well water for drinking, cooking and bathing. Bottled water for drinking and cooking was provided by EPA less than two days after the discovery of the problem. As soon as arrangements could be made a granular activated carbon filter was installed on the well to remove the VOCs from the water. MCEPD sampled the water to confirm the effectiveness of the treatment and agreed to sample the water on a quarterly basis. The Mecklenburg County Public Water Supply assured EPA that public water services will be extended to the affected residences within the next six months.

B.	<u>Estimated Costs</u>	(dollars)
Extramural Costs		
Regional Allowance Costs:		
	ERCS	10,000
Non-Regional Allowance Costs:		
	TAT	<u>2,000</u>
	Subtotal	12,000
	15% Contingency	<u>1,800</u>
	Total, Extramural Costs:	13,800
Intramural Costs		
	Direct (50 hrs at \$30/hr)	1,500
	Indirect (50 hrs at \$54/hr)	<u>2,700</u>
	Total, Intramural Costs:	<u>4,200</u>
	TOTAL SITE BUDGET	18,000

VI. REGIONAL DETERMINATION

Because conditions at the Tom Sadler Road Wells Site meet the NCP 40 C.F.R. 300.415 criteria for a removal action, I, as an On-Scene Coordinator, authorize expenditures not to exceed \$18,000 through procurement authority delegated to me under Authority Number 87-26-A008-B-0201. Of this \$18,000, \$10,000 will be funded from the FY 93 regional removal allowance.

  
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R. Donald Rigger  
On-Scene Coordinator  
Emergency Response and Removal Branch

10/29/93  
DATE

ATTACHMENT 1

ENFORCEMENT SENSITIVE

The source of the groundwater contamination is unknown at this time. Due to the exigencies of the situation, a response could not be delayed while the source was being determined.

In order to pursue enforcement actions against PRPs at this site, a site investigation must be conducted to identify the source of the contamination. At this point the contamination is extremely localized (other wells within 200 feet of the Mingus well are not contaminated). A site investigation would cost more than the proposed remedy with no guarantee of positively identifying the source. Therefore, at this time it is recommended that no site investigation be conducted. The fact that the contaminated groundwater is being extracted and treated should help control the migration of the contaminants and also will eventually remedy the problem. Therefore, due to the anticipated high cost of a site investigation and the uncertainty of positively identifying the source of the contamination, no enforcement is anticipated at this site at the present time. If new information becomes available, this enforcement strategy may change.