

This form is required to be submitted by subcontractors III and IV of ch. 144, Wis. Stats. Failure to complete and submit this form may lead to violations of these statutes and result in forfeitures of not less than \$10 or more than \$25,000 for each violation, pursuant to ss. 144.426, 144.469, 144.74(1), and 144.89, Wis. Stats., or fines of not less than \$100 or more than \$150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74(2), Wis. Stats. Each day of a continuing violation constitutes a separate violation.

Sections I, II & IV must be filled out completely. Also, complete other sections that apply.

Return completed forms to: L.U.S.T. Specialist at the appropriate District or Area Office.

**I. SOURCE OF SOIL**

Facility Name <i>WASTE RESEARCH &amp; RECLAMATION Co. INC</i>	Site ID# (For DNR use only)
Site Address <i>RX#7</i>	Contact Name <i>GEORGE ANDERSON / JIM MEATES</i>
City, State, Zip Code <i>EAU CLAIRE, WI 54701</i>	Telephone Number (Include Area Code) <i>715-834-9624</i>
Section, Township and Range <i>SW 1/4 of SE 1/4 Sec 03, T26N R9W</i> <small>Town of Washington, EAU CLAIRE County</small>	Facility Owner/Operator Signature <i>WASTE RESEARCH &amp; RECLAMATION Co. INC.</i>

**II. CONTAMINATION DETAILS**

Volume Soil (Cubic yards) <i>16 cu yds.</i>	Certified DNR Lab Number <i># 618026530</i>
Type of Petroleum Contamination (Circle one) 1 Gasoline      2 Diesel Fuel      3 #2 Fuel Oil 4 Other <i>#6 HEATING OIL</i>	Lab Name <i>WASTE RESEARCH &amp; RECLAMATION Co. INC.</i>
Contaminant Concentration (Two representative composite samples for every 300 cubic yards of soil, in ppm.) Attach Laboratory Analyses	Sampling Method (Brief description of method used to obtain representative sample of soil) <i>GRAB SAMPLE FROM DIRT AS IT WAS HAND DUG FROM AROUND TANK</i>
Sample No. <i>9104143</i> <i>9105113</i>	Total Benzene In Soil To Be Remediated (Attach calculations) <i>None</i>
Benzene	Total Amount of Petroleum Hydrocarbons In Soil to Be Remediated (Attach calculations)
Toluene <i>RECEIVED</i>	Percent Soil Less Than 200 Mesh or 74 Microns <i>2-3%</i>
Ethylbenzene <i>JUL - 2, 1991</i>	Soil Classification Type (Sand, silt, clay, etc.) <i>SAND, GRAVEL, CONCRETE CHUNKS</i>
Total Xylenes <i>DNRWD.</i>	Anticipated Time Frame for Remediation Start Date      End Date
Total Petroleum Hydrocarbons as Gasoline	Method of Pulverizing Silt or Clay Soils
Total Petroleum Hydrocarbons as Fuel Oil <i>72000 ppm</i> <i>13 ppm</i>	

**III. PROPOSED METHOD OF SOIL TREATMENT**

1. Asphalt Plant/Other Type of Thermal Evaporation Unit		WDNR Air Quality Permit Number <i>W10021585716</i>	WPDES Permit Number <i>NA</i>
Name <i>EAU CLAIRE ASPHALT CORPORATION</i>		s. 144.04 Plan Approval Number or Equivalent <i>(Sealed ponds according to NR 213)</i>	
Address <i>RX#4 BOX 326</i>		Distance to Nearest Residence/Business <i>1/4 MI / 1/2 MI</i>	
City, State, Zip Code <i>EAU CLAIRE, WI 54702</i>		Burner Temperature During Soil Treatment <i>250-275° F</i>	Soil Residence Time in Burner During Treatment <i>100 TON/HR</i>
(If portable, where will plant be located)		Anticipated Date Treatment Will be Completed	
Plant Number and Model <i>BARBER GREEN DM65</i>	DNR Facility Identification Number <i>#618006950</i>	(If stockpiled before being treated, all petroleum contaminated soil must be underlain and overlain by an impermeable membrane.)	
Contact Name <i>LOUIE THUNE</i>	Final Disposition of Treated Soil (How used, specific location) <i>MIX INCORPORATION</i>		
Title <i>COORDINATOR</i>			
Telephone Number (Include area code) <i>715-835-4858</i>			
Site Telephone Number (Include area code) <i>715-835-0167</i>			

d. ... into asphalt, post burn soil testing is required. ... parameters listed in item II. Two ... are to be taken every 300 cubic yards of soil.

on of VOC's Intended to Occur  
\_\_\_\_\_ hourly\* \_\_\_\_\_ daily\*  
Emission of Benzene Intended to Occur  
\_\_\_\_\_ daily\* \_\_\_\_\_ total\*  
\*Attach Calculations

Volatilization of Contaminants In Soil (Passive Evaporation)  
Type of Impervious Surface \_\_\_\_\_

Curbing or Berms (Existing or proposed construction) \_\_\_\_\_

Thickness of Soil Undergoing Remediation (As placed) \_\_\_\_\_

Techniques to Cover During Inclement Weather \_\_\_\_\_

Method of Turning or Mixing Soil \_\_\_\_\_

Method of Field Sampling \_\_\_\_\_

Proposed Verification Method of Contaminant Content (Lab sampling)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Location and Size of Remediation Site \_\_\_\_\_

Distance to Nearest Residence/Business \_\_\_\_\_

Highest Emission of VOC's Intended to Occur  
\_\_\_\_\_ hourly\* \_\_\_\_\_ daily\*  
Highest Emission of Benzene Intended to Occur  
\_\_\_\_\_ daily\* \_\_\_\_\_ total\*  
\*Attach Calculations

Disposal of Contaminated Soils at a Sanitary Landfill-NR 500  
Name \_\_\_\_\_

License No. \_\_\_\_\_

Location \_\_\_\_\_

Contact Name \_\_\_\_\_

DNR Area Investigator Contacted Name \_\_\_\_\_

Date \_\_\_\_\_

Volume to Be Disposed Of \_\_\_\_\_ Cubic Yards

Amount Total VOCs\* \_\_\_\_\_

Amount Benzene\* \_\_\_\_\_

\*Attach Calculations

Attach Map Showing Location of Approved Landfill

4. Soil Venting/Vacuum Extraction  
Responsible Party \_\_\_\_\_

Consultant Responsible for System \_\_\_\_\_

Size and Rating (in cfm) of Blower \_\_\_\_\_

Distance to Nearest Residence/Business \_\_\_\_\_

VOC Discharge Rate From Pilot Testing \_\_\_\_\_ lbs/day at \_\_\_\_\_ CFM

Benzene Discharge Rate From Pilot Testing \_\_\_\_\_ lbs/day at \_\_\_\_\_ CFM

Note: This option may need an air pollution control permit. Any exceedance of an emission limit will require the installation of an activated carbon unit or similar treatment system to strip VOCs from the blower discharge.

5. Other Method of Soil Remediation  
Please Describe the Method to Be Used  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

OWNER/OPERATOR OR CONSULTANT SUBMITTING REQUEST

Company Name  
WASTE RESEARCH & RECLAMATION Co. INC.

Address  
Rt #7

State, Zip Code  
Eau Claire, WI 54701

Contact Name  
George Anderson / Jim Haber / Jim Hertel

Telephone Number (include area code)  
715-834-9624

Signature  
James Haber

LEAVE BLANK - DEPARTMENT OF NATURAL RESOURCES USE ONLY

APPLICATION		Contact Name	Date
<input checked="" type="checkbox"/>	Air Management	Bill Evans	7/2/91
<input type="checkbox"/>	Solid Waste		
<input type="checkbox"/>			

Comments  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Section 2 Continued.  
 This will not be incorporated into permit, post burn soil testing is required. This will need to be sampled for the same parameters listed in Item II. Two composite soil samples are to be taken every 300 cubic yards of soil.  
 Highest Emission of VOC's Intended to Occur  
 \_\_\_\_\_ hourly\* \_\_\_\_\_ daily\*  
 Highest Emission of Benzene Intended to Occur  
 \_\_\_\_\_ daily\* \_\_\_\_\_ total\*  
 \*Attach Calculations

3. Volatilization of Contaminants In Soil (Passive Evaporation)  
 Type of Impervious Surface  
 \_\_\_\_\_  
 Turbing or Berms (Existing or proposed construction)  
 \_\_\_\_\_  
 Thickness of Soil Undergoing Remediation (As placed)  
 \_\_\_\_\_  
 Techniques to Cover During Inclement Weather  
 \_\_\_\_\_  
 Method of Turning or Mixing Soil  
 \_\_\_\_\_  
 Method of Field Sampling  
 \_\_\_\_\_  
 Proposed Verification Method of Contaminant Content (Lab sampling)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Location and Size of Remediation Site  
 \_\_\_\_\_  
 Distance to Nearest Residence/Business  
 \_\_\_\_\_

Highest Emission of VOC's Intended to Occur  
 \_\_\_\_\_ hourly\* \_\_\_\_\_ daily\*  
 Highest Emission of Benzene Intended to Occur  
 \_\_\_\_\_ daily\* \_\_\_\_\_ total\*  
 \*Attach Calculations

Disposal of Contaminated Soils at a Sanitary Landfill-NR 500  
 Name  
 \_\_\_\_\_  
 License No.  
 \_\_\_\_\_  
 Location  
 \_\_\_\_\_

Section 3 Continued  
 Contact Name  
 \_\_\_\_\_  
 DNR Area Investigator Contacted  
 Name  
 \_\_\_\_\_  
 Date  
 \_\_\_\_\_  
 Volume to Be Disposed Of  
 \_\_\_\_\_ Cubic Yards  
 Amount Total VOCs\*  
 \_\_\_\_\_  
 Amount Benzene\*  
 \_\_\_\_\_  
 \*Attach Calculations

Attach Map Showing Location of Approved Landfill  
 \_\_\_\_\_

4. Soil Venting/Vacuum Extraction  
 Responsible Party  
 \_\_\_\_\_

Consultant Responsible for System  
 \_\_\_\_\_

Size and Rating (In cfm) of Blower  
 \_\_\_\_\_

Distance to Nearest Residence/Business  
 \_\_\_\_\_

VOC Discharge Rate From Pilot Testing  
 \_\_\_\_\_ lbs/day at \_\_\_\_\_ CFM

Benzene Discharge Rate From Pilot Testing  
 \_\_\_\_\_ lbs/day at \_\_\_\_\_ CFM

Note: This option may need an air pollution control permit. Any exceedance of an emission limit will require the installation of an activated carbon unit or similar treatment system to strip VOCs from the blower discharge.

5. Other Method of Soil Remediation  
 Please Describe the Method to Be Used  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

OWNER/OPERATOR OR CONSULTANT SUBMITTING REQUEST

Company Name  
 WASTE RESEARCH & RECLAMATION Co. INC.  
 Address  
 Rt # 7  
 State, Zip Code  
 BRU CAIRO, WI 54701

Contact Name  
 NAROKO Loew / Jim Meates  
 Telephone Number (Include area code)  
 715-834-9624  
 Signature  
 [Signature]

LEAVE BLANK - DEPARTMENT OF NATURAL RESOURCES USE ONLY

APPLICATION  
 Occurrence  
 Air Management  
 Solid Waste  
 Contact Name  
 Date  
 Date  
 Date

Comments: Approved this time because only hyd? Next time be sure that is analyzed properly and recorded properly.



Waste Research & Reclamation Co. Inc.

Printed on  
recycled  
paper



Route 7, Eau Claire, WI 54701 715-834-9624 FAX: 715-836-8785

July 5, 1991

State of Wisconsin  
Department of Natural Resources  
1300 West Clairemont Avenue  
Box 4001  
Eau Claire, WI 54702-4001

RECEIVED

JUL - 8 1991

DNR-WD

Attn: Bill Evans

Dear Bill:

The attached treat and dispose form is for soil contaminated with hydraulic oil. This was generated in St. Paul, but we have been asked to dispose of it for the generator.

Per Ginger Hooper's direction of 7/3/91, I am sending this to you for your approval. You will note that I have included the analysis and PCB scan and results.

If you have any questions, please call me at 715-834-9624.

Sincerely,

WASTE RESEARCH & RECLAMATION CO., INC.

James B. Mertes

JBM/erg



GROUNDWATER CASE TRACKING

SITE NAME: WREK Tank: ~~Aband~~ Abandoned

LOCATION: Earl Clark

COUNTY: E.C.

FID#: \_\_\_\_\_

RESPONSIBLE STAFF: Evans

SUPPORT: \_\_\_\_\_

DATE INITIATED: 6-21-89

CONTAMINANT: Gasoline #2

PROGRAM: st

FUNDING: RP

STATUS: RP overexcavated contaminated soil from overfill.  
Less than 10<sup>cu.</sup> yards ~~to be~~ Thin-spread. Closed.

FOR EPA REPORTING PURPOSES, PLEASE INDICATE THE FOLLOWING:

1. SITE INSPECTIONS BY DNR AND DATE: \_\_\_\_\_
2. LETTERS SENT (TYPE OF LETTER & DATE): \_\_\_\_\_
3. INVESTIGATIONS CONDUCTED/REPORTS RECEIVED: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Waste Research & Reclamation Co. Inc.

Route 7, Eau Claire, WI 54701 715-834-9624 FAX: 715-836-8785

Printed on recycled paper



May 10, 1991

Metropolitan Transit Commission  
515 N. Cleveland Ave.  
St Paul, MN 55114

ATTN: Joseph Novothy

Sample ID# 9104113

Date Received: Apr 18, 1991

PO#: D601  
copy to ash/sh

Sales Rep: Joan Miller

Material: Waste dirt & hydraulic fluid

REPORT OF TEST RESULTS

Recyclable? no Percent Distilled: —  
Specific Gravity (spent) : 1.687  
(distilled) : —

Boiling Range: —  
Flash Point: >200F

pH value: 6  
Organic Composition of Distillate (vol%)

Solids Content (non-volatile): 95.5% Ash Content: 91.4%  
Heat of Combustion: 1,620 BTU/lb  
Sulfur Content: Chloride: 4.9% Nitrogen:

Heavy Metals:	Silver (Ag):	<4.8	Mercury (Hg):	<0.04
(mg/kg)	Arsenic (As):	<0.07	Nickel (Ni):	18.1
	Barium (Ba):	0.2	Lead (Pb):	<1.06
TOTAL <u>X</u>	Cadmium (Cd):	<0.02	Selenium (Se):	<0.07
	Chromium (Cr):	<0.02	Zinc (Zn):	51.6
TCLP EXTRACT	Copper (Cu):	21.		

Projected volume: one time  
Volume on-hand: 4 drums

Comments: Moist sand, rocks and plastic pieces. Very high ash. Only silver, copper, nickel and zinc were tested at WRR.  
See some results from Aptus.

Lab Report Prepared by Jiing-Yun Lee, Ph.D./VP  
WASTE RESEARCH & RECLAMATION CO., INC.

WISCONSIN DNR CERTIFIED LABORATORY  
ID # 618026530

P C B TEST

DATE April 24, 91

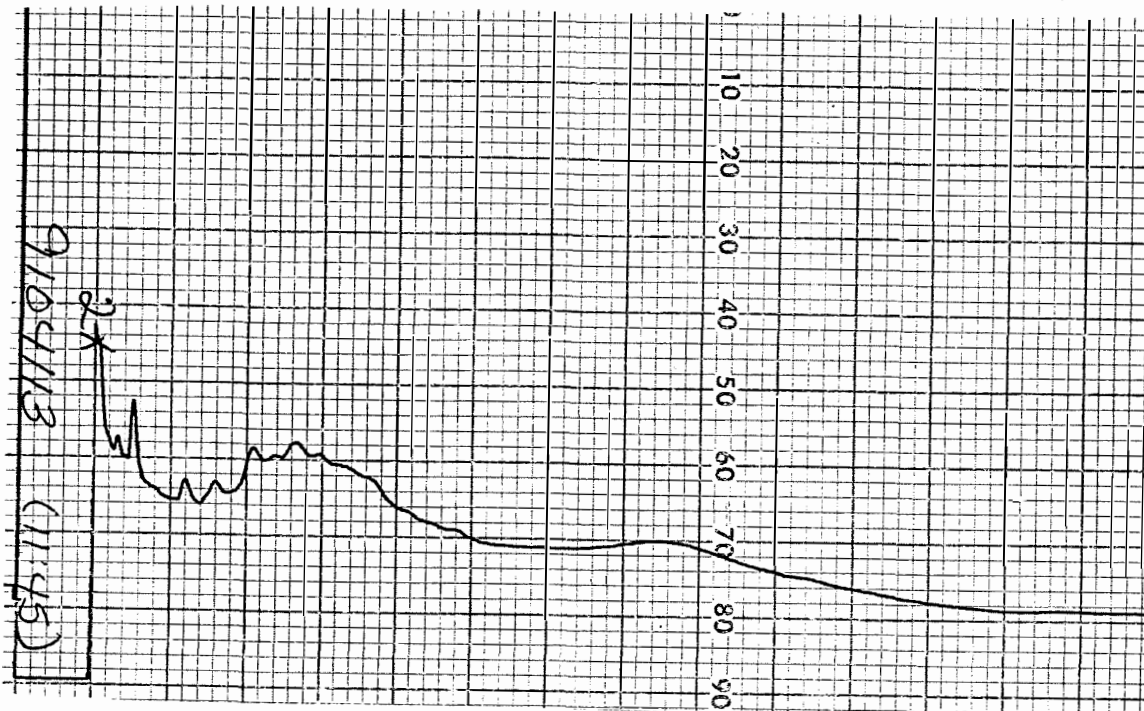
IDENTIFICATION 9104113

TECHNIQUE Hexane Ext. 1:100

dirt/hydraulic fluid

TEMPERATURE 200

PRESSURE 50



: 9104113: Metropolitan Transit Commission  
: ash/sh : St Paul, MN  
: Material : Waste dirt & hydraulic fluid  
: Comments :  
: Remarks : see some results from Aptas  
                  Very high only

: Metals: yes : SPTESTA : PO: D601 : \$

: Description :  
Moist sand, rocks and plastic pieces

9

Density (s) 1.687 (d) \_\_\_\_\_ : initial \_\_\_\_\_ bombed \_\_\_\_\_  
pH (s) 6 (d) \_\_\_\_\_ : full cup wt \_\_\_\_\_  
Normality \_\_\_\_\_ : - mt cup wt \_\_\_\_\_  
plastic / oil / solids / other : sample wt \_\_\_\_\_  
Temp C \_\_\_\_\_ time \_\_\_\_\_  
i \_\_\_\_\_ 40 \_\_\_\_\_ 80 \_\_\_\_\_ : Final temp \_\_\_\_\_  
10 \_\_\_\_\_ 50 \_\_\_\_\_ 90 \_\_\_\_\_ : Initial \_\_\_\_\_  
20 \_\_\_\_\_ 60 \_\_\_\_\_ dry \_\_\_\_\_ : delta temp \_\_\_\_\_  
30 \_\_\_\_\_ 70 \_\_\_\_\_ :

Blendable?(yes/no) NO FP >200 F : % ash \_\_\_\_\_ X fact \_\_\_\_\_  
Recyclable \_\_\_\_\_ : BTU/lb 1620 Cl 50.1 AP  
N \_\_\_\_\_ S 4.9%

Solids content 95.5 %  
Ash content 91.4 % 70.8%  
COMPOSITION : Solvent Extraction (10 ml Solvent)

----- : MC density \_\_\_\_\_  
: Perchloroethylene \_\_\_\_\_  
: Methanol density \_\_\_\_\_  
: MC PERC METH  
: sample \_\_\_\_\_  
: wt \_\_\_\_\_  
: water \_\_\_\_\_  
: content (sample) \_\_\_\_\_ (blank) \_\_\_\_\_

✓ PCB test results; < 5 ppm

Recycled mat'l analysis [ ] \$275  
Disposal mat'l analysis [ ] \$330  
: BTU content [ ] \$40  
: HPLC (with BTU) [ ] \$75  
: PCB test [ ] \$60  
: Extract GC [ ] \$100  
: Normality or pH [ ] \$10  
: Flash point [ ] \$15  
: distillation GC [ ] \$60  
: Specific gravity [ ] \$5  
: % solids / ash [ ] \$20  
: Leachate [ ] \$170  
: Outside lab [ ] \$ \_\_\_\_\_  
: (specify testing) \_\_\_\_\_

METALS RESULTS  
total [X] leachate [ ]  
: silver Ag < 4.8 [ ]  
: arsenic As < 0.07 [ ]  
: barium Ba 0.2 [ ]  
: cadmium Cd < 0.02 [ ]  
: chromium Cr < 0.02 [ ]  
: copper Cu 21. [ ]  
: mercury Hg < 0.14 [ ]  
: nickel Ni 18.1 [ ]  
: lead Pb < 1.06 [ ]  
: selenium Se < 0.07 [ ]  
: zinc Zn 51.6 [ ]  
: antimony Sb \_\_\_\_\_ [ ]  
: beryllium Be \_\_\_\_\_ [ ]  
: thallium Tl \_\_\_\_\_ [ ]

: Outside test results \_\_\_\_\_

TOTAL COST OF ANALYSIS: \_\_\_\_\_



Metro Transit Commission  
515 Cleveland Avenue North  
St. Paul, MN 55105

CLIENT ID: Sump Waste  
LABORATORY NO: 109917-002  
DATE RECEIVED: 11/30/89  
APTUS PROFILE NO: AP012640  
SAMPLE MATRIX: Solid

ATTN: Mr. Joe Novtny

<u>PARAMETER</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOD</u>
Ash	70.76	%	0.01
Density	1.53	g/mL	N/A
Halogen, Total (as Chloride)	ND	%	0.1
Heat of Combustion	1,620	BTU/lb	1000
PCB	ND	µg/mL	1
pH	6.81	N/A	0.5-14
Total Analytes:			
Arsenic	ND	mg/L	0.07
Barium	0.20	mg/L	0.004
Cadmium	ND	mg/L	0.02
Chromium	ND	mg/L	0.02
Lead	ND	mg/L	1.06
Mercury	ND	mg/L	0.04
Potassium	6.73	mg/L	0.10
Selenium	ND	mg/L	0.07
Silver	ND	mg/L	0.01
Sodium	7.41	mg/L	0.10
Sulfur	4.91	mg/L	0.10

Reactivity Screen:

Cyanide Negative  
Sulfide Negative  
Water Negative

Physical Description

Brown Solid Particles (100%)

*Diesel*

BDL - Below Detection Limit  
LOD - Level of Detection  
N/A - Not Applicable  
ND - Not Detected

**APTUS**

21750 Cedar Avenue • Lakeville, MN 55044 • 612-469-3475

— A Westinghouse Company —

Waste Research + Reclamation

PHN#: \_\_\_\_\_ FID#: \_\_\_\_\_  
PROJECT MGR: Evans  
SUPPORT PERSON: \_\_\_\_\_  
DISTRICT: \_\_\_\_\_ COUNTY: \_\_\_\_\_ HNDI: \_\_\_\_\_

SITE NAME: WR + R Tank Abandonment  
ADDRESS: RT 7 Hwy 93  
Eau Claire TN CITY\_VIL  
LEGAL DESC: 1/4 1/4 SEC T R E/W

DATE OF INITIAL CONTACT: 06/21/89  
(mo day yr)

DATE OF RP LETTER: \_\_\_/\_\_\_/\_\_\_  
(mo day yr)

DATE SITE CLOSURE APPROVED: 6/21/89  
(mo day yr) 8/3/89

LUST TRUST ELIGIBLE: (X)  
 1 = FEDERAL  
 2 = NON-FEDERAL  
STATUS: (X)  
 1 = STATE LEAD  
 2 = RP LEAD

PRIORITY SCREENING: (X)  
 1 = HIGH SCORE: \_\_\_\_\_  
 2 = MEDIUM  
 3 = LOW  
 4 = UNKNOWN  
(see worksheet on back)

FUNDING SOURCE: (X)  
 1 = RESPONSIBLE PARTY  
 2 = LUST TRUST FUND  
 3 = ENVIRONMENTAL RESPONSE FUND  
 4 = SUPER FUND  
 5 = NONE  
 6 = OTHER \_\_\_\_\_

(X AS APPROPRIATE)	DATE INITIATED (MO DAY YR)	DATE COMPLETED (MO DAY YR)	COMMENTS:
<input type="checkbox"/> NO ACTION TAKEN	___/___/___	___/___/___	_____
<input type="checkbox"/> EMERGENCY	___/___/___	___/___/___	_____
<input type="checkbox"/> EMERGENCY RESPONSE	___/___/___	___/___/___	_____
<input type="checkbox"/> FIELD INVESTIGATION	___/___/___	___/___/___	_____
<input type="checkbox"/> REMEDIAL ACTION	<u>06/22/89</u>	___/___/___	<u>overexcavated soil</u>
<input type="checkbox"/> LONG TERM MONITORING	___/___/___	___/___/___	_____

FIRM OR PERSON RESPONSIBLE: WR + R  
CONTACT: Gene Jameson  
ADDRESS: RT 7 Hwy 93  
Eau Claire  
PHONE: 715 / 836-8160  
(list additional on separate list & attach)

CONSULTANT: \_\_\_\_\_  
CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
PHONE: \_\_\_/\_\_\_/\_\_\_  
AMOUNT COMMITTED: \$ \_\_\_\_\_ AMOUNT SPENT: \$ \_\_\_\_\_  
(list additional on separate list & attach)

PECFA REVIEW REQUESTED: (X)  YES  NO

DATE PECFA REQUEST RECEIVED: (mo day yr) \_\_\_/\_\_\_/\_\_\_

KNOWN IMPACTS: (X)	POTENTIAL IMPACTS: (X)
FIRE/EXPLOSION THREAT _____	_____
CONTAMINATED PRIVATE WELL _____	_____
CONTAMINATED PUBLIC WELL _____	_____
GROUNDWATER CONTAMINATION _____	_____
SOIL CONTAMINATION <input checked="" type="checkbox"/>	_____
OTHER: _____	_____

SUBSTANCES: (X)	QUANTITY DISCHARGED: (gals)
<input type="checkbox"/> LEADED GAS	<input type="checkbox"/> VOCS
<input type="checkbox"/> UNLEADED GAS	<input type="checkbox"/> PESTICIDE
<input type="checkbox"/> DIESEL	
<input type="checkbox"/> FUEL OIL	
<input type="checkbox"/> UNKNOWN HYDROCARBONS	
<input checked="" type="checkbox"/> OTHER <u>gasoline</u>	

\*\*\*ENFORCEMENT ACTION TAKEN\*\*\*

- |                                 |                      |                           |                        |
|---------------------------------|----------------------|---------------------------|------------------------|
| 01=INF. CONTACT, RESP INITIATED | 06=INSPECTION LETTER | 14=NOTICE OF VIOLATION    | 23=REFERRAL TO DOJ     |
| 02=RP LETTER, RESP INITIATED    | 07=RESPONSE RECEIVED | 18=ADMIN. ORDER FINAL     | 25=REFERRAL TO EPA     |
| 03=NFC OF NON COMPLIANCE        | 11=CLOSE OUT         | 20=ADMIN. ORDER CANCELLED | 99=OTHER ACTION: _____ |

ACTION (code from above)	DATE (mo/day/yr)	COMMENT:
<u>11</u>	<u>06/21/89</u> <u>8/3/89</u>	<u>Case Closed</u>
_____	___/___/___	_____
_____	___/___/___	_____

(for additional action codes see instructions/list additional on separate list and attach)

OVER ALL CASE COMMENT: \_\_\_\_\_

LUST CASE PRIORITY SCREENING WORKSHEET

**HIGH FACTORS:** (DEFINITION: Any case which presents an actual threat to human health, or has a high potential of causing a threat to human health and property; and/or any case which has caused or has a high potential of causing substantial impacts to the soil waters and air of the State of Wisconsin)

- |  |   |
|--|---|
| <u>      </u> Contaminated private or public well >NR140 enf. std. | <u>      </u> Floating product (medium if no receptors within 1 mile)                                   |
| <u>      </u> Explosive or toxic vapors in structures              | <u>      </u> Known gw contamination (private or public well <140 enf. std)                             |
| <u>      </u> Threat of fire                                       | <u>      </u> Impacted surface water--wetland, trout stream, etc. impacted saturated soil contamination |

**MEDIUM FACTORS:** (DEFINITION: Any case which does not appear to be an immediate threat to human health or vital natural resources but which shows levels of contamination that may cause substantial environmental impacts if left unaddressed.)

- Moderate soil contamination with moderate potential for impacting groundwater.  
       Impacted surface water--no critical habitat threats.

**LOW FACTORS:** (DEFINITION: Any case where contamination has been documented, but which presents limited potential for any immediate threat to human health and vital natural resources.)

- Soil contamination which appears to have a limited potential for impacting groundwater.  
       Initial remedial action has substantially reduced environmental threat.

**UNKNOWN FACTOR:** (DEFINITION: Any case where some indication of contamination is present, but due to incomplete or inaccurate information the level of threat to human health or the environment can not be assessed at this time.)

- Inadequate information to assign a high, medium, or low ranking.

**OVERALL RANKING:** The screening rank for the site along with the date of ranking. This may be updated when additional information is received. Special circumstances for a particular case may be taken into account in the comment section. The District LUST coordinator may independently set the ranking of a site based upon "special circumstances."

Circle one & date, indicate in priority screening box opposite side        HIGH        MEDIUM        LOW        UNKNOWN

COMMENT: \_\_\_\_\_

NUMERICAL LUST SCORING WORKSHEET (complete for LUST cases ranked HIGH)

1. **GROUNDWATER & SOILS:** (circle one)

POINTS	Documented Petroleum Contamination:	POINTS	
20	Municipal well	8	Soil & gw within 1200' of a public well
18	>6 private wells	6	Soil & gw within 1200' of one or more private wells
16	4 - 6 private wells	4	GW contamination, no wells within 1200'
14	2 - 3 private wells	2	Soil contamination
12	1 private well		

2. **EXPLOSIVE OR TOXIC VAPORS:** (circle one)

POINTS	CONFIRMED	POTENTIAL	
	20	10	Explosive levels in a residence or building
	16	8	Explosive levels in a sewer or structure
	12	6	Toxic levels in a residence or building

Note: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)

3. **HYDROGEOLOGIC SETTING:** (circle one)

POINTS	
12	Highly permeable sub-soils (gravel, well sorted sand, fractured bedrock or utilities capable of intercepting and directing flow) <u>and</u> groundwater within 25 feet of the ground surface.
10	Highly permeable sub-soils <u>and</u> groundwater more than 25 feet below ground surface.
8	Moderately permeable sub-soils (silty sands, silty gravel, clayey sands) <u>and</u> groundwater within 25 feet of ground surface.
6	Moderately permeable sub-soils <u>and</u> groundwater greater than 25 feet below ground surface.
4	Low permeability sub-soils (silt, clayey silt, sand clays) <u>and</u> groundwater within 25 feet of ground surface.
2	Low permeability sub-soils <u>and</u> groundwater greater than 25 feet below ground surface.

4. **TYPE OF PRODUCT:** (circle one)

POINTS	NOTE: Add 4 points if free product is present. (score in parentheses)
8 (12)	Gasoline, mixture of gasoline and other products, other light petroleum products.
6 (10)	Diesel, fuel oil
2 (6)	Bunker oil, other heavy oils or crude fractions

\_\_\_\_\_ TOTAL SCORE (indicate score in priority screening box on opposite side)

8/1/89

Gene Jameson, WR&amp;R

11:30

re: Soil remediation

Spread by haul + blade with

Mostly gasoline

Will work over with disc tomorrow

8/3/89

Gene Jameson, WR&amp;R

spread out yesterday.

dye west of office. Spread  $\leq \frac{1}{2}$ "turned over 4-5 times yesterday. Worked well,  
sunny & 90° F.Will turn over ~ 3 times today. I told him  
after that this would be good enough.

Send lab procedure for TPH, organolead.

6/21/89

Gene Jameson, WR&R 834-9627

8:00

Diesel & Gasoline tank took out week ago.  
- soil odor ~~at~~ when guys filling trucks  
30 drum - 4 drums.

Tanks good. to use above ground.

Jim or Dr. Lee oversaw

I'll see if I can approve thin-spraying w/o proposal  
for this small an amount.

6-21

Gene

11:00

≤ 10 yds

37 drums. At p  
removed all detectable soils + 2 drums.  
He looked at their UST manual & didn't see req't for  
site assessment.

6-22

Gene J.

4:00

Told Gene to make plans for thin-spraying  
& get back to me. If he stays w/in our proposal  
criteria I'll approve w/o a proposal.

I'll go on-site to inspect.

They will document the soil excavation. &  
will analyze the last drum removed which was  
below contamination to verify clean closure.

(I trust they didn't cover anything up. In addition,  
there are plenty of mon wells & a remediation ongoing  
that they wouldn't get away with anything.)

bring  
HNU

Bill Evans  
From Gene Jamison

# Under-ground tank Removal

On May 25, 1989 Dick Frederick Excavation was brought into North Research and Reclamation

to remove a total of four underground fuel tanks that had been taken out of service earlier.

All four tanks had been pumped empty and had steam hoses run into them overnight.

When the concrete pump island was removed, there was an odor of fuel oil around the fill tube of the Western 500 gallon tank. When the two 500 gallon tanks were removed, they appeared to be solid and in fair shape but the soil under the Western 500 gallon tank had a distinct odor. It appears that fuel had migrated from the fill tube, over the side of

of the tank and collected under the west end  
of it. A number of open top barrels were  
(there was no free liquid)  
brought to the site and filled with soil until

no odor was detected and then a few scoops  
were removed for good measure. These barrels  
were sealed and stored until August 1st 1989.

The barrels were opened and dumped on the gravel  
base course area in the North West corner of our property.

The soil was hand raked to a depth of  $\frac{1}{2}$  inch.

On the 2nd of August, 1989, the soil was turned, using  
an Avic Bradley walk behind tractor with disc, at

10:00 AM, <sup>12:30 PM</sup> ~~at~~ 2:30 PM. It was dragged at 4:30 PM

and 6:30 PM. ~~On the~~ On the 3rd of August, 1989, it

was turned with disc at 10:30 AM and 2:30 PM

and dragged at 4:30 P.M.

When the soil was dumped and raked the  
temp was in the high 80's

The 2nd, the temp. was 89° with an 8-12 M.P.H.  
wind.

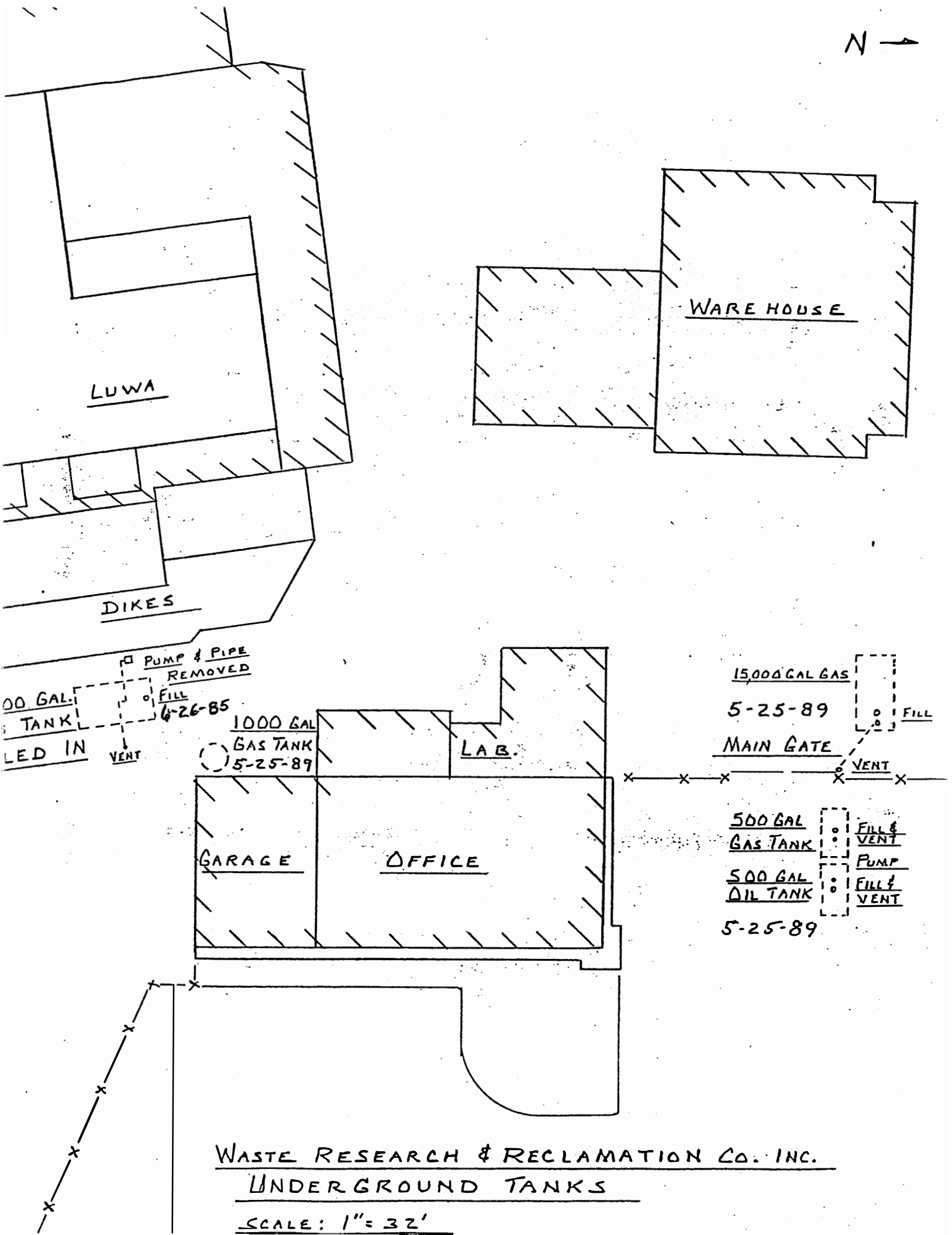
The 3rd, the temp. was in the upper 90's with  
an 18 M.P.H. wind.

No rain has fallen on this area since July  
29th, 1989

The 15,000 gallon tank was in excellent condition  
and would have been reused for above ground use  
if the excavator had not caved in the side when  
removing it.

There was no evidence of seepage from any of the tanks  
before ~~removal~~ being removed. J. S. M. (3)





LUWA

WAREHOUSE

DIKES

PUMP & PIPE  
REMOVED

FILL  
6-26-85

1000 GAL.  
TANK  
LED IN

VENT

1000 GAL  
GAS TANK  
5-25-89

LAB.

15000 GAL GAS

5-25-89

MAIN GATE

FILL

VENT

GARAGE

OFFICE

500 GAL  
GAS TANK

FILL &  
VENT

PUMP

500 GAL  
OIL TANK

FILL &  
VENT

5-25-89

WASTE RESEARCH & RECLAMATION CO., INC.

UNDERGROUND TANKS

SCALE: 1" = 32'

Fig. B.2.D. WR&R Underground Tank Cross Section Map

