Department of Natural Resources

#810

LEAKING UNDERGROUND STORAGE TANK (Case Tracking)
Form 4400-146

5-20-91 3-91

Site Name: Lois Pak

District: Southern County: JEFFERSON

Address: 860 WEST ST
Watertown, WI 53094

PMN: _____ FID: _____

Proj Mgr: _____

Legal Municipality: City of Watertown

Support Person: _____

Legal Desc: ____ 1/4 ____ 1/4 Sec ____ T ____ R ____ E/W

Date of Initial Contact: 4 / 30 / 91 Date of Letter: 5 / 16 / 91 Date Site Closure Approved: 3 / 5 / 92

Status
- ___ 1 = State Lead
- X 2 = RP Lead

Priority Screening
- ___ 1 = High
- ___ 2 = Medium
- ___ 3 = Low
- X 4 = Unknown

Score: ____ . ____

Funding Source
- X 1 = RP
- ___ 2 = LTF
- ___ 3 = EF
- ___ 4 = SF
- ___ 5 = None
- ___ 6 = Other (Describe In Comments)
- ___ 7 = EPA (Emergency Resp)

PECFA Review Requested
(√) ____ Yes ____ No

Date PECFA Request Received
(mm/dd/yy) ____ / ____ / ____

Lust Trust Eligible
- X 1 = Federal
- ___ 2 = Non-Federal

CASE STATUS

(√) As Appropriate	Date Initiated (mm/dd/yy)	Date Completed (mm/dd/yy)	Comments
___ No Action Taken (N)			
___ Emergency (E)	___ / ___ / ___	___ / ___ / ___	
___ Emergency Response (R)	___ / ___ / ___	___ / ___ / ___	
___ Field Investigation (I)	___ / ___ / ___	___ / ___ / ___	
___ Remedial Action (C)	___ / ___ / ___	___ / ___ / ___	
___ Long Term Monitoring (L)	___ / ___ / ___	___ / ___ / ___	

(√) All Appropriate	Known Impacts (√)	Potential Impacts (√)
___ Fire/Explosion Threat (1)		
___ Contaminated Private Well (2)		
___ Contaminated Public Well (3)		
___ Groundwater Contamination (4)		
___ Soil Contamination (5)	✓	
___ Other: (6) ____		

Substances (√)
- ___ Leaded Gas(1)
- ___ Unleaded Gas (2)
- ✓ Diesel (3) 20,000 GALLON STEEL TANK 12 YEARS OLD
- ___ Fuel Oil (4)
- ___ Unknown Hydrocarbons (5)
- ___ Other (8) ____
- ___ VOCS (6)
- ___ Pesticide (7)

Quantity Discharged Minimal release

Responsible party

Name: John Utteck, Karl Wolf

Address: _____

Telephone: ____ / ____
(list additional on separate list and attach.)

Consultant: Sigma Environmental

Contact: Steven Benton

Address: 9555 S. Howell Ave
Suite 100
Oak Creek, WI 53154

Telephone: 414 / 768 7144

Amount Committed: $____ . ____

Amount Spent: $____ . ____
(list additional on separate list and attach.)

ENFORCEMENT ACTION TAKEN

01 = Inf. Contact, Resp Initiated	08 = Adequate Response	15 = Formal Enf Conf	22 = Draft Referral
02 = RP Letter, Resp Initiated	09 = Progress Being Made	16 = Enf Conf. Letter	23 = Referral to DOJ
03 = NTC of Non Compliance	10 = Defer Enforcement	17 = Admin. Order Proposed	24 = Referral to DA
04 = Inf. Enf. Conf, Resp Initiated	11 = Close Out	18 = Admin. Order Final	25 = Referral to EPA
05 = Follow-up Enf. Conf, Resp Initated	12 = Recommend NFA	19 = Admin. Order Modified	26 = Continuing Violation
06 = Inspection Letter	13 = FWD to Secondary Enf	20 = Admin. Order Cancelled	27 = See Next Violation
07 = Response Received	14 = Notice of Violation	21 = Contest Case Hearing	28 = Site Inspection

99 = Other Action: ____

ACTION (code from above)	DATE (mm/dd/yy)	COMMENT
01	4 / 30 / 91	Low Level PID READINGS 10-20
02	5 / 16 / 91	rp letter

(list additional on separate list and attach.)

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.)

____ Contaminated private or public well >NR140 enf. std.
____ Explosive or toxic vapors in structures
____ Threat of fire

HIGH OR MEDIUM FACTORS: (write in choice of high or medium)
____ Floating product (medium if no receptors within 1 mile)
____ Known gw contamination (private or public well <140 enf. std.)
____ 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 (e.g. 100 - 500 ppm TPH) 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 (e.g. less than 100 ppm TPH) 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

Overall Site Comment: _____

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

1. GROUNDWATER & SOILS: (circle one)

POINTS	
20	Municipal Well
18	>5 private wells
16	4 - 6 private wells
14	2 - 3 private wells
12	1 private well

_____ SCORE

POINTS	
8	Soil & gw within 1200' of a public well
6	Soil & gw within 1200' of one or more private wells
4	GW contamination, no wells within 1200'
2	Soil contamination

*For purposes of this scoring, private well includes any non-municipal water supply system.

2. EXPLOSIVE OR TOXIC VAPORS: (circle one)

POINTS CONFIRMED	POTENTIAL	
20	10	Explosive levels in a residence or building
	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)

_____ SCORE

3. HYDROGEOLOGIC SETTING: (circle one)

POINTS	
12	Permeable stratigraphy (gravel, sand, fractured bedrock or utilities capable of intercepting and directing flow) and groundwater within 25 feet of the ground surface.
10	Permeable stratigraphy and groundwater greater than 25 feet below ground surface.
8	Moderately permeable stratigraphy (silty sands, silty gravel, clayey sands) and groundwater within 25 feet of ground surface .
6	Moderately permeable stratigraphy and groundwater greater than 25 feet below ground surface.
4	Impermeable stratigraphy (silt, clayey silt, sand clays) and groundwater within 25 feet of ground surface.
2	Impermeable stratigraphy and groundwater greater than 25 feet below ground surface.

_____ SCORE

4. TYPE OF PRODUCT: (circle one)

POINTS	
8	Gasoline, mixture of gasoline and other products, other light petroleum products.
6	Diesel, fuel oil.
2	Bunker oil, other heavy oils or crude fractions.

_____ SCORE

List Additional Responsible Party Names Here:

Responsible Party Name: _____ Responsible Party Name: _____

Address: _____ Address: _____

Phone: / _____ Phone: / _____

Responsible Party Name: _____ Responsible Party Name: _____

Address: _____ Address: _____

Phone: / _____ Phone: / _____

List Additional Consultants Here:

Consultant: _____ Consultant: _____

Contact: _____ Contact: _____

Address: _____ Address: _____

Phone: / _____ Phone: / _____

Amount Committed: $_____.____ Amount Spent: $_____.____ Amount Committed: $_____.____ Amount Spent: $_____.____

List Additional Enforcement Actions Here:

Action Code	Date (mo/day/yr)	Comment
04	1 / 17 / 92	Req further work
07	1 / 10 / 92	FORM 4
08	1 / 30 / 92	Addendum to Closure Assessment
11	3 / 5 / 92	Closure
08	9 / 2 / 92	RECFA FORM 4 sent Signed.
47	5 / 11 / 93	
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RECEIVED
MAY 14 1993
DEPT. OF NATURAL RESOURCES
SD HEADQUARTERS

SAFETY & BUILDINGS DIVISION

201 E. Washington Avenue
P.O. Box 7969
Madison, Wisconsin 53707

State of Wisconsin
Department of Industry, Labor and Human Relations

May 11, 1993

Mr. Karl Wolf
Wis Pak, Inc
860 West Street
Watertown, WI 53094

RE: PECFA Reimbursement: 860 West Street, Watertown, WI
Claim No. 53094-3517-60

Dear Mr. Wolf:

Enclosed please find a check in the amount of $22,194.52. This amount represents payment of eligible costs reimbursed under the PECFA program.

The reimbursement was calculated as follows:

Amount of Claim	$ 28,115.77
Additional Amount	$ 0
Amount not Eligible	$(921.25)
Sub Total	$ 27,194.52
Less 5% Paid After 8-15-91	$ NA
Deductible	$ 5,000.00
Percentage	$ 100%
Total PECFA Payment	$ 22,194.52

Non-eligible costs for this claim are as follows:

1. Daily vehicle charge by Sigma Environmental in the amount of $300.00. Mileage was also charged, both are not reimbursed.
2. Our department has set a maximum amount of $500.00 for preparation of PECFA forms. Sigma charged a total of $1,121.25 for preparation of forms. $621.25 was not reimbursed.

PECFA reimbursements paid for the remediation for this site, are as follows: $22,194.52

The deductible is based on costs incurred (paid) after August 15, 1991. Under the new law the deductible was changed to $2,500.00 plus 5% of all eligible costs for each occurrence but no more than $7,500.00 per occurrence. Costs incurred (paid) prior to August 15, 1991 are subject to a $5,000.00 deductible.

Please let me know if you have additional questions pertaining to this reimbursement.

Sincerely,

Russell R. Haupt

Russell R. Haupt
Environmental Cleanup Grant Reviewer
Bureau of Petroleum Inspection
and Fire Protection
(608) 267-7538

cc: Liz Porter
Michael Halsted

308lo:rrh

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

Southern District Headquarters
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711
TELEPHONE 608-275-3266
TELEFAX 608-275-3338

September 2, 1992

File Ref: 4440
(UST-Jefferson Co., #810)

Mr. John Uttech
Wispak, Inc.
860 West Street
Watertown, WI 53094

Subject: LUST, Application for PECFA Form 4, Wispak, Inc., Watertown, Wisconsin.

Dear Mr. Uttech;

Form 4 of your application for reimbursement under the State's Petroleum Storage Remedial Action Fund (PSRAF) for investigation and remediation activities at the above site has been reviewed. The Department has received the following report on this site:

1. "A Report of Underground Storage Tank Closure Assessments and Soil Remediation By Over Excavation", Sigma Environmental Services, Inc., November 14, 1991.

The above report documents that substantial investigation has been performed on this site to date. In accordance with the provisions of PSRAF, evidence of a hazardous substance release was reported to the Department of Natural Resources as required in s. 144.76(2), Wisconsin Statues. The investigation and remedial work at this site has not been performed by the Department using Federal LUST Trust Funding (42 USC 6991) or enforcement action. Therefore, based on the work accomplished, I have signed your Form 4. A copy of the form is attached; the original has been forwarded to the Department of Industry, Labor, and Human Relations.

The Department had also reviewed this case for closure. Based on the investigative reports supplied by your consultant, it appears that the site has been remediated to acceptable Department standards. Therefore, no further action is required at this time. If in the future, a more serious problem develops with respect to the original subsurface contamination, the Department reserves the right to require further action.

Printed on Recycled Paper

Dear Mr. Uttech - September 2, 1992

If you have any questions or considerations regarding this determination you may contact me at the number shown below. If you have any questions regarding the PECFA program, you should contact Miles Mickelson at (608) 267-4545.

Sincerely,

Michael S. Halsted

Michael S. Halsted
Environmental Specialist
Telephone: (608) 275-3240

msh/N:wispak.pcf

Enc. Signed Form 4 (copy).
cc: Mr. Liz Porter, Sigma, Inc., 9555 South Howell Avenue, Suite 100, Oak Creek, Wisconsin 53154
Mr. Miles Mickelson, Department of Industry, Labor, and Human Relations, Bureau of Petroleum Inspection, P.O. Box 7969, Madison, WI 53707

Wisconsin Department of Industry, Labor and Human Relations

FORM 4

DNR SITE INVESTIGATION AND REMEDIAL ACTION PLAN REVIEW

Safety and Buildings Division
Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969
Madison, WI 53707
(608) 267-4545
(608) 267-7538

Section 101.143 (3) (c) 4, Wis. Stats., requires that a claimant obtain written approval from the Department of Natural Resources (DNR) when requesting reimbursement for activities in response to a discharge from a commercial petroleum product storage system or home oil tank. The DNR approval must indicate that the site investigation and remedial action plan is adequate to meet requirements of s. 144.76, Wis. Stats. The DNR approval is created for the purpose of meeting the requirements of s. 101.143 (3), Wis. Stats., only and does not bar the DNR from requiring that additional investigation and/or remediation activities be performed by persons responsible under s. 144.76, Wis. Stats.

Office Use Only Application Case # _____

Tank ID # _____ Installation Date _____
Tank ID # _____ Installation Date _____
Tank ID # _____ Installation Date _____

Claimant's Name: Wis-Pak, Att: Karl Wolf	Remedial Action Site Name (if business): Wis-Pak
Street Address: 860 West Street	Remedial Action Site Address: 860 West Street
City, State, Zip Code: Watertown WIS 53094	City, State, Zip Code: Watertown WIS 53094
Claimant's Telephone Number: (414) 262-6300	Telephone Number of Site: (414) 262-6300

Claimant is
☐ Owner ☑ Operator ☐ Other - please specify:

Approval requested for: ☒ Petroleum Product Storage System ☐ Home Oil Tank System

FOR DNR USE ONLY (Indicate Whether Completed Remedial Action or Other Action(s))

A copy of this completed document must be submitted to DNR for approval of initial activities (emergency action, site investigation and remediation) in accordance with s. 101.143 (3) (c) 4, Wis. Stats.

☒ Completed Remedial Action (complete cleanup and single claim for reimbursement) (Steps 1 through 3)

Progress Payments For:

☐ Emergency Action (Step 1 - check only if emergency action was performed)

☐ Completion of Site Investigation (Step 1) and Proposed Remedial Action Plan (Step 2)

☐ Remedial Action (Step 3)

☐ Operation/Maintenance and Environmental Monitoring (annual claim for remedial action activities) (Step 4)

☐ Site Investigation **By Order** of DNR And/Or DILHR - No Remedial Action

Check Appropriate Box(es)

The DNR received a request for approval of the above identified activities for the site listed on this document on the following date January 10, 1992.

The DNR response for purposes of s. 101.143 (3), Wis. Stats., is attached.

Remedial action activities conducted by owners/operators are not eligible for funding under 42 USC 6991 (L.U.S.T. Funding). (See s. 101.143 (3) (a) 2., Wis. Stats.)

Send one copy of this completed form to the address shown in the upper right corner and one copy to the claimant.

Reviewer's Signature Michael S Hatter Date Signed 9-1-92

Reviewer's Title Environmental Specialist

SBD-8069 (R. 10/89) **Copy Distribution: White - DILHR S & B; Green - Claimant/Agent; Pink - DNR**

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

Southern District Headquarters
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711
TELEPHONE 608-275-3266
TELEFAX 608-275-3338

March 5, 1992

File Ref: Jefferson

Mr. John Uttech
Wispak, Inc.
860 West Street
Watertown, WI 53094

Subject: Site Closure at Wispak, Inc.

Dear Mr. Uttech

The Closure Committee has reviewed the above-named site for closure. Based on the site's documentation (investigative reports, telephone contact forms, and letters) which describe the remedial actions taken, it appears that the site has been cleaned-up to acceptable Department standards. Therefore, no further action is required with respect to subsurface remediation at this site.

If in the future a more serious problem develops with respect to the original subsurface contamination, the Department reserves the right to require further action.

If you have any questions regarding this determination you may contact me at the number shown below.

Sincerely,

Tarin Harrar Weiss

Tarin Harrar Weiss
Hydrogeologist
(608)275-3240

cc: Mr. Steve Benton, SIGMA, Inc., 9555 S. Howell Ave., Suite 100,
Oak Creek, WI 53154

CASE SUMMARY AND CLOSE-OUT FORM

NAME OF SITE: WIS-PACK, INC. high/med/low: UNKNOWN

RP: JOHN UTTECIE date/rp letter: 5-16-91

LOCATION: 860 WEST STR, WATERTOWN

TYPE OF DISCHARGE: LUST X SPILL__ UNKNOWN__

CONTAMINATION PRESENT IN: SOILS X GROUNDWATER __ OTHER__ UNKNOWN__

*** CASE INFORMATION ***

tank excavation or incident date : 4-~~30~~ 25,26,29-91 site assess. consultant: Sigma

tanks, size, product, etc.: 20,000 gal diesel detects 1000 gallon waste oil nd

(small holes present in N. seam of 20K)

150 gallon diesel nd

soils: unconsolidated

depth to bedrock/rock type: depth to groundwater/direction of flow:

8' perched / foundation 1 to 2' in 20K UST exc.

Investigation/Remediation consultant:

Laboratory testing soils/water: date:

*** DEGREE OF CONTAMINATION ***

SOIL: extent defined? Y/N___ NA___

Lab analysis:___ Field analysis___ No data___

Number of sampling points:_____ * date samples taken:

Contaminant		Preremediation Concentration	Post Remediation Concentration
NE corner exc. #14	4.5'	370 ppm diesel	after over exc. #1

Remedial Action Taken: 228 tons excavated

(Initially 180 tons exc. - then area backfilled

Remedial Action Completed: Y/N___

GROUNDWATER: extent defined? Y/N___ NA___ * date samples taken:

Lab analysis:___ Field Analysis___ No data___

Permanent Wells Y/N___ Temp. Wells Y/N___

Contaminant	Preremediation Concentration	Post Remediation Concentration

Remedial Action Taken:

GW Remedial Action Completed: Y/N ___

Has this site been remediated to current standards? Y/N ___

CASE SUMMARY:

COMMITTEE RECOMMENDATION:

REMEDIAL ACTION COMPLETE? YES- CASE CLOSEOUT: date 3/3/92

signatures Stephen M. Ales 3/3/92

Patricia McCubbin 3/3/92

Delbert Maag 3/3/92

REMEDIAL ACTION COMPLETE? NO-

FURTHER WORK NEEDED:

CORRESPONDENCE/MEMORANDUM

State of Wisconsin

Date: February 28, 1992 File Ref:

To: Close-Out Committee

From: T. Weiss

Subject: Wis-pak Closure, Watertown

In April 1991 2 tanks were removed from this property: a 1000 gallon waste oil tank (3 samples collected around tank excavation and showed no detects for TPH), a 150 gallon diesel fuel UST (2 samples taken at either end showed no detects for TPH) and a 20,000 gallon diesel tank which had one hit.

Soil encountered in the excavation were silts and clays with sand and gravel intermixed.

7 soil samples were collected from the excavation of the 20K UST - samples from the north and south end (base) at 10 feet showed no detects for TPH (diesel) as did four other samples taken from the east wall (6'), south wall (6'), dispenser base (1'), and north wall (5'). PID readings were taken from four additional locations and had no readings over 1.5 units (see table 5 and site map).

A detect of 370 ppm was detected at approximately 4.5 feet at the northeast corner of the excavation (sample 14). This sample was taken from above a 4" sanitary sewer line that eventually collapsed into the excavation. the line needed to be replaced so soil was removed in this area to allow the utility contractor to get in - the area was then filled in with pea gravel. Approximately 180 tons of soil (native and backfill) was removed and stockpiled from this excavation area. In August, 50 tons more was excavated from the northern area and all of the soil was taken to Parkview Landfill in Menominee Falls.

Confirmation Sampling

3 samples were collected and analyzed for PVOCs and DRO in August. Sampling directly under the original hit was not done because no native soil remained in the area (it was all pea gravel down to the bottom of the excavation at 10'). Confirmation sample E taken at approximately 4' in native soil is closest native soil they could get - none of the confirmation samples had detects.

Water Sampling

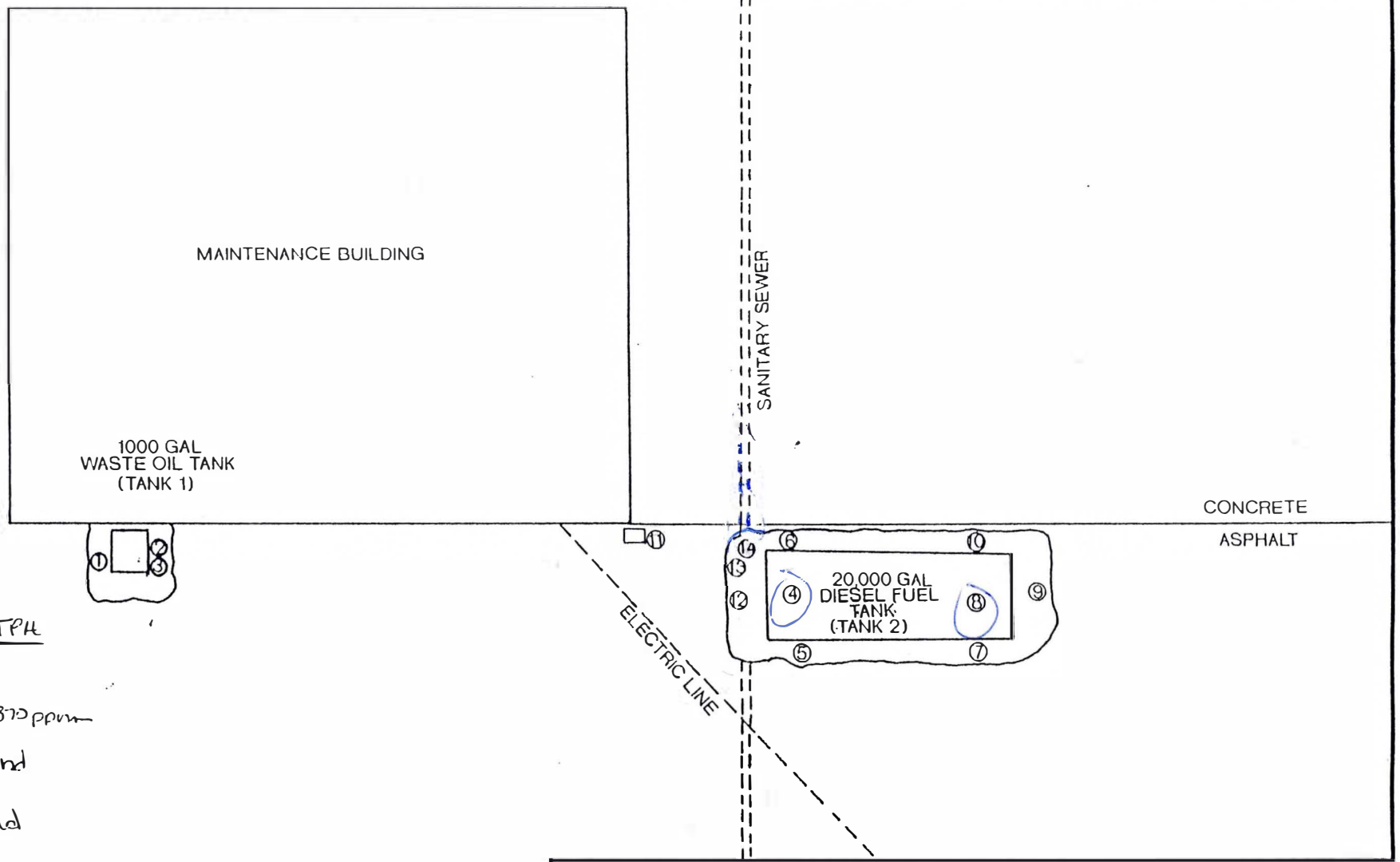
During the original excavation - water was encountered in the excavation at 8' -Sigma installed 2 sump pumps in the excavation. Water has been sampled twice from these pumps (6/5 and 6/24) for VOCs and found no detects. No detects were found in the base soils at 10 feet in the original excavation so this is not surprising. Sigma does not know if this represents the true water table but believes it may be perched or excavation/foundation water.

Recommendation

The contamination has been ringed by samples 6, 12, and E - on all sides except the east.

? Make them go east for a sample - make sure it didn't migrate along sewer line

? questions about area S-14?



TPH

# 16	6'	nd
# 14	4.5'	370 ppm
# 13	3'	nd
# 12	5'	nd
# 5	6'	nd
# 4	10'	nd
# 8	10'	nd

SIGMA
ENVIRONMENTAL SERVICES INC.

SCALE: 1"=20'	APPROVED BY:	DRAWN BY
DATE: 5-20-91		REVISED

SITE PLAN MAP OF WIS-PAK CO.
860 WEST STREET WATERTOWN, WISCONSIN

DRAWING NUMBER
FIGURE 2

West Allis Blueprint G-196-M10 542221

from field screening and laboratory analysis of the soil samples are summarized in Table 2. Copies of laboratory results are presented as Appendix B.

TABLE 2
20,000 GALLON DIESEL FUEL UST SAMPLE RESULTS

Sample ID	Location	Depth	PID Value	Laboratory TPH Results
4	North Base	10'	3.5	<4.0
5	West Wall-North	6'	N.D.	N.A.
6	East Wall-North	6'	N.D.	<4.0*
7	West Wall-South	6'	1.5	N.A.
8	South Base	10'	6.5	<4.0
9	South Wall	6'	3.0	<4.0
10	East Wall-South	6'	1.0	N.A.
11	Dispenser Base	1'	1.0	<4.0
12	North Wall	5'	17.5	<4.0
13	Piping-North	3'	N.D.	N.A.
14	Northeast Corner	4.5'	30.0	370 (diesel)

- PID values reported in ppm equivalents
- TPH values reported in ppm
- N.D. - no detection
- N.A. - not analyzed
- * - sample analyzed for VOC's - no significant concentrations detected

In addition to TPH analysis, the sample collected from the northern end of the east wall of the excavation (#6) was analyzed for Volatile Organic Compounds (VOC). No significant concentrations of VOC's were detected.

4.2.1 Water Sampling and Analysis. Prior to the backfilling of the 20,000 gallon UST excavation, two (2) sumps were installed for the purpose of collecting excavation water samples.

Excavation water samples were collected on June 5, 1991 and again on June 24, 1991. The water samples were submitted to CBC Environmental Laboratories and analyzed for EPA method 601 and 602 Volatile Organic Compounds (VOC's) plus lead. No VOC's or lead were detected in either sample round. Copies of the laboratory analytical reports are presented as Appendix C.

SIGMA
ENVIRONMENTAL SERVICES INC.

9555 South Howell Avenue
Oak Creek, WI 53154 Suite 100
414-768-7144
FAX: 414-768-7158

RECEIVED
JAN 30 1992
DEPT. OF NATURAL RESOURCES
SD HEADQUARTERS

January 27, 1992

Project Reference #PSZ0458

RECEIVED
FEB - 5 1992
DEPT. OF NATURAL RESOURCES
SD HEADQUARTERS

Ms. Tarin Harrar Weiss
Hydrogeologist
Wisconsin Department of Natural Resources
Southern District Headquarter
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711

Re: Addendum to UST Closure
Assessment Report Wis-Pak, Inc.

Dear Ms. Weiss:

I am writing this letter to clarify information that was unclear or absent from the UST closure and remedial report titled "A Report of Underground Storage Tank Closure Assessments and Soil Remediation by Over-Excavation at Wis-Pak, Inc., 860 West Street, Watertown, Wisconsin 53094".

In your letter to Mr. John Uttech dated January 17, 1992 you state your concerns that all of the contaminated soil in the vicinity of sample #14 (370 ppm as diesel) may not have been removed. (In this case, the repair of the sewer line and the overexcavation of the dispenser area included the removal of the sample #14 area.) I will further explain the circumstances of the contaminated soil removal that were not covered to your satisfaction in the closure/remediation report.

Following the removal of the 20,000 gallon diesel fuel UST on April 26, 1991, soil samples were collected from the base and sidewalls of the excavation. During our visual inspection of the excavation, we noted soil staining on the north wall of the excavation. A sample was collected at approximately 4.5 feet bgs (#14) to determine the TPH (as diesel) concentrations in the native soil surrounding the UST. Sample #14 was collected from an area above a 4" sanitary sewer lateral that eventually collapsed into the excavation and required reconstruction. Prior to reconstruction additional soil had to be removed and stockpiled to allow access for the utility contractor to replace the damaged section of sewer pipe. Following the pipes replacement, the excavation and sewer trench were backfilled with pea gravel.

On August 15, 1991 the contaminated soil pile and contaminated soils underlying the piping system were removed and landfilled. All impacted soils along the southern boundary of the dispenser excavation were removed up to the pea gravel fill previously placed in the UST excavation. Hence, native soils are no longer present in the sample #14 area.

I firmly believe that all diesel fuel impacted soils have been successfully removed from the excavation. In addition, two (2) rounds of excavation water analysis did not reveal VOC contamination.

I hope that this additional information will allow the Wisconsin Department of Natural Resources to grant closure for this LUST project. If I can answer additional questions or provide any additional information that you may require, please feel free to call me at (414) 768-7144.

Respectfully Submitted

SIGMA ENVIRONMENTAL SERVICES, INC.

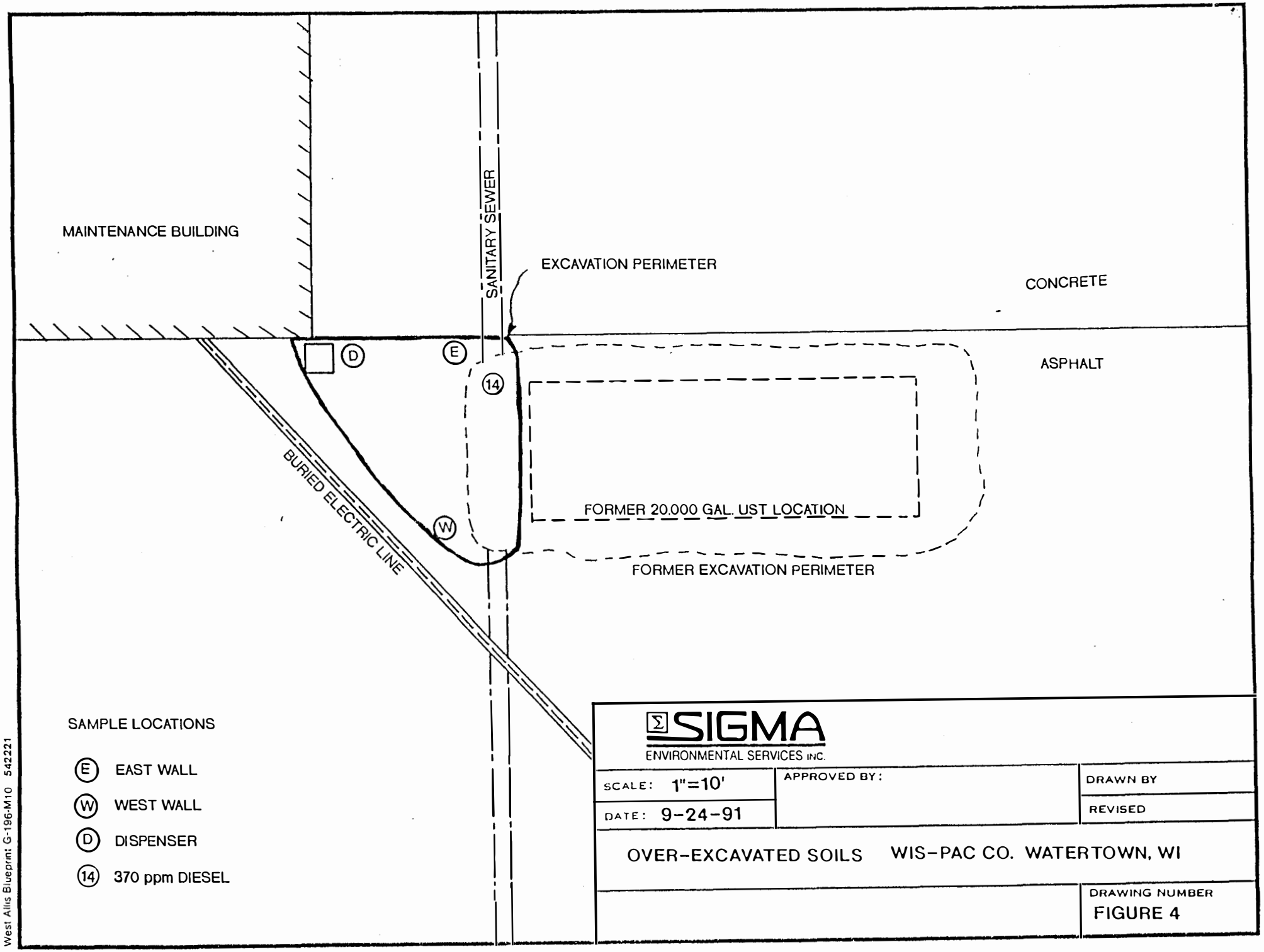
Steven D. Benton
Staff Hydrogeologist

Timothy E. Wimmer
Project Manager

Enclosure

SDB/mcj/bjg

CC: Mr. John Uttech, Wis-Pak, Inc.
860 West Street
Watertown, Wisconsin 53094


MAINTENANCE BUILDING
SANITARY SEWER
EXCAVATION PERIMETER
CONCRETE
ASPHALT
D
E
14
W
BURIED ELECTRIC LINE
FORMER 20,000 GAL. UST LOCATION
FORMER EXCAVATION PERIMETER
SAMPLE LOCATIONS
E EAST WALL
W WEST WALL
D DISPENSER
14 370 ppm DIESEL
SIGMA
ENVIRONMENTAL SERVICES INC.
SCALE: 1"=10'
APPROVED BY:
DRAWN BY
DATE: 9-24-91
REVISED
OVER-EXCAVATED SOILS WIS-PAC CO. WATERTOWN, WI
DRAWING NUMBER
FIGURE 4
West Allis Blueprint G-196-M10 542221

CHEM-BIO CORPORATION
ENVIRONMENTAL SERVICES
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

05/07/91 LABORATORY REPORT

C739 8462497 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11561 SOIL/EXCAVATION #2/N-E CORNER/PID 30/WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	370	PPM
	DIESEL	
	BASED ON SIMILARITIES TO DIESEL STANDARD.	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

SWANSON ENVIRONMENTAL INC.

3150 North Brookfield Road
Brookfield, Wisconsin 53045
telephone (414) 783-6111
facsimile (414) 783-5752

ANALYTICAL REPORT

AIHA Accreditation #352
WDNR Certification #268181760

REPORT NUMBER: 36388
AMENDED 10/01/91

Sigma Environmental
3555 South Howell Avenue
Oak Creek, WI 53154

Attn: Mr. Steve Benton

DATE: September 4, 1991
PURCHASE ORDER: 01203-R
SEI JOB NO: WL3051
DATE COLLECTED: 08/16/91
DATE RECEIVED: 08/16/91

Soil Samples Kwik Pak Watertown.

Units: mg/kg dry.

SEI ID	3051-1	3051-2	3051-3	3051-4
Parameter / Sample ID	Dispenser Island	East wall	West wall	Landfill Confirmation
Benzene	<0.05	<0.05	<0.05	--
Ethylbenzene	<0.05	<0.05	<0.05	--
Methyl t-butyl ether	<0.05	<0.05	<0.05	--
Toluene	<0.05	<0.05	<0.05	--
1,2,4-Trimethylbenzene	<0.05	<0.05	<0.05	--
1,3,5-Trimethylbenzene	<0.05	<0.05	<0.05	--
Xylenes	<0.05	<0.05	<0.05	--
Total Petroleum Hydrocarbons* (DRO)	<5	<5	<5	100

* Concentration based on a diesel fuel standard using the Modified State of California method.

Reviewed & Approved by:

Rosemary L. Dineen
Laboratory Director

RECEIVED
OCT - 3 91

ORIGINAL

SIGMA
ENVIRONMENTAL SERVICES INC.

9555 South Howell Avenue
Oak Creek, WI 53154 Suite 100
414-768-7144
FAX: 414-768-7158

Please Review for Closure
NR141
4400-120

January 8, 1992

Project Reference #PSZ0458

RECEIVED
JAN 10 1992
DEPT. OF NATURAL RESOURCES
SD HEADQUARTERS

Mr. Wendell Wojner
Wisconsin Dept. of Natural Resources
Southern District Headquarters
3911 Fish Hatchery Road
Fitchburg, WI 53711

RE: Wis-Pak, Inc., Watertown Property
Request for Clean Closure

Dear Mr. Wojner:

Enclosed please find the report titled, "A Report of Underground Storage Tank Closure, Assessments and Soil Remediation by Overexcavation at Wis-Pak, Inc., 860 West Street, Watertown, Wisconsin 53094".

Effective remediation performed at the site has prompted Sigma Environmental Services, Inc. to request that clean closure be granted for this LUST site.

Additionally, I have enclosed PECFA Claim Form #4 for your signature pending your review of the report. If you have any questions regarding this project, please feel free to call me at (414) 768-7144.

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.

Steven D. Benton
Staff Hydrogeologist

SDB:bjg

Enclosures

cc: Mr. Carl Wolf - Wis-Pak, Inc.

Wispack

20,000 gallon UST -

prior to backfilling 2 sumps installed (whose idea?)

6/5 sampled for VOCs - nd

6/24 " " " - nd

8-15-91 180 tons of diesel fuel impacted soils exc. + stockpiled + transferred to Parkview Landfill, Menomonee Falls

50 yds^3 related to piping run + p.i. also exc.

Questions -

1- #14 taken at 4.5'

additional inv. ~~to~~ sampled at 4' E wall closest to sample. 1 int 370 ppm still in place.

2- What criteria was used to adv. add'l inv. toward disp. island?

3- Why was ~~the~~ soil collected at 4' under D.I. when orig. sample at 1' came back no detect? Are PID analysis available?

4- Depth to gw needs to be determined in this area.

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

Southern District Headquarters
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711
TELEPHONE 608-275-3266
TELEFAX 608-275-3338

January 17, 1992

File Ref: 4440
UST-Jefferson Co.

Mr. John Uttech
WisPak
860 West STreet
Watertown, WI 53094

Subject: Closure Request at WisPak Leaking Underground Storage Tank Site

Dear Mr. Uttech:

I have reviewed the 1/8/92 Request for Clean Closure Report submitted for your site by Sigma. The report details the closure of three underground storage tanks from your property. Contamination was detected along the northern end of the 20,000 gallon diesel tank.

According to the Report, the contamination was removed by two overexcavation episodes. The total amount of soil removed was 228 tons. The additional excavation was prompted by PID readings above 10 ppm (equivalents) taken in the initial excavation. Soils were removed to the north of sampling points 12, 13, and 14 and the final excavation is shown in Figure 4 of the Report.

It is not clear from the report that all of the contaminated soil in the vicinity of sample #14 (TPH 370 ppm as diesel) has been removed. This sample was taken at 4.5 feet in depth and the additional excavation sampled soils at only 4 feet in depth. Therefore, analytically, I cannot be sure that all the contaminated soil in the vicinity of #14 has been investigated and removed both vertically and horizontally to the north. An additional soil sample is needed below sample #14, in native soil, to confirm that all the contamination has been removed. If sampling is impeded by groundwater, then an NR141 monitoring well is needed at the site that can take representative, reproducible samples of groundwater. The soil sample can then be obtained from the boring installed for the monitoring well in the vicinity of #14. When the results of this sample have been received the site will be reviewed again for closure.

If you have any questions regarding this information please contact me at (608)275-3240.

Sincerely,

Tarin Harrar Weiss
Hydrogeologist

cc: Mr. Steven Benton, Sigma, Inc., 9555 S. Howell Ave., Suite 100, Oak Creek, WI 53154

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES
Carroll D. Besadny, Secretary

Southern District Headquarters
3911 Fish Hatchery Road
Fitchburg, WI 53711
TELEFAXNO. 608-275-3338

May 16, 1991

File Ref: 4440
(UST - Jefferson County)

Mr. John Uttech
WisPak
860 West Street
Watertown, WI 53094

Subject: Tank Removal at 860 West Street, Watertown

Dear Mr. Uttech:

On April 30, 1991, Steven Benton reported the excavation of a 20,000 gallon underground storage tank at the above property. Soil samples taken during the removal indicate soil contamination above the Department guidelines. A site assessment report should be prepared and submitted for Department review.

Section 144.76 of the Wisconsin Statutes requires that, "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands or waters of this state." The Statute also authorizes the Department of Natural Resources to enforce clean-up requirements.

Releases from underground storage tanks regulated under Subtitle I of the Resource Conservation and Recovery Act require compliance with the provisions of 40 CFR Parts 280 and 281. This is federal law administered by the Environmental Protection Agency (EPA). EPA has the authority to take enforcement action at any time, but will generally not take action against parties cooperating with the state.

The fire department must be notified immediately of any possible explosive vapors in buildings or utilities resulting from the release. Known or potential impacts to drinking water supplies must be identified.

Because you are the owner of the property where a hazardous substance has been discharged, you are responsible for:

1. Determining the horizontal and vertical extent of contamination.
2. Cleaning up the contamination.
3. Proper disposal of all petroleum contaminants.

The Department of Industry, Labor and Human Relations (DILHR) administers a cost-sharing program (PECFA) which covers many releases from underground tank systems. More information on this program may be obtained by calling (608) 267-4545 or 267-7538.

Remediation of petroleum contamination requires professional engineering and hydrogeologic experience. Within 30 days, your consultant must submit a proposal to investigate the full extent of contamination. If groundwater contamination is suspected at the site, all wells within 1200 feet should be identified on a site map and those closest to the site should be sampled for volatile organic compounds (VOCs).

Due to the number of petroleum releases which have been reported, the Department may be unable to provide timely review of your consultant's proposal. Nonetheless, you must proceed to determine the extent of soil and groundwater contamination, and to remediate the site in accordance with state groundwater standards as specified in ch. NR 140, Wisconsin Administrative Code.

Enclosed is the following information to assist you:

- [x] Petroleum Environmental Clean-up Fund Program (PECFA).
- [x] Environmental Consultant's Listing.
- [x] Application to Treat or Dispose of Petroleum Contaminated Soil.

If you have any LUST questions or would like any of the information on the enclosed "LUST Technical Fact Sheet," please call me at the number shown below.

Sincerely,

Marilyn J. Jahnke

Marilyn J. Jahnke
LUST Program Assistant
Telephone: (608) 275-3212

Enc.
cc: Mr. Bill Morrissey, DILHR, Bureau of Petroleum Inspection, Room 103, 201 East Washington Avenue, P.O. Box 7969, Madison, WI 53707
Steven Benton, Sigma Environmental, 9555 S. Howell Ave., Oak Creek, WI 53154

A REPORT OF
UNDERGROUND STORAGE TANK
CLOSURE ASSESSMENTS AND
SOIL REMEDIATION BY
OVEREXCAVATION AT
WIS-PAK, INC.
860 WEST STREET
WATERTOWN, WISCONSIN 53094

PREPARED FOR:
MR. JOHN MOMMAERTZ
WIS-PAK, INC.
P.O. BOX 496
860 WEST STREET
WATERTOWN, WISCONSIN 53094

PREPARED BY:
SIGMA ENVIRONMENTAL SERVICES, INC.
STEVEN BENTON
STAFF HYDROGEOLOGIST
9555 SOUTH HOWELL AVENUE
OAK CREEK, WISCONSIN 53154

PROJECT REFERENCE #PSZ0458

NOVEMBER 14, 1991

STEVEN BENTON
STAFF HYDROGEOLOGIST

THOMAS C. SWEET
VICE PRESIDENT/
GENERAL MANAGER

EXECUTIVE SUMMARY

Sigma Environmental Services, Inc. (Sigma) of Oak Creek, Wisconsin has been retained by Mr. John Mommaertz of Wis-Pak, Inc. to perform underground storage tank (UST) closure assessments at the Wis-Pak, Inc. facility located at 860 West Street in Watertown, Wisconsin.

The closures included the excavation and removal of three (3) UST's from the subject property, soil sampling from the UST bases, piping runs, and dispensers if applicable, soil sampling from the side walls of the excavations if petroleum hydrocarbon impact was suspected, groundwater sampling if groundwater was present in the excavations, and landfill parameter analysis required for obtaining the necessary permits for impacted soil disposal. Observation and documentation of field activities, transportation of UST's, sludges and impacted soils and other pertinent information is also addressed in this report. The overall purpose of the closure assessments are to comply with Wisconsin Department of Natural Resources (WDNR) guidelines established September 1990.

On April 25, 26 and 29, 1991, three UST's were removed from the site: One (1) 20,000 gallon diesel UST, one (1) 1,000 gallon waste oil UST, and one (1) 150 gallon diesel UST. The UST's were cleaned of residual sludges, dismantled on site and transported to Racine Recycling as scrap steel. The residual sludge was containerized in DOT approved 55 gallon drums and left on site for future disposal as mandated by Wisconsin Department of Natural Resources (WDNR) regulations.

Petroleum hydrocarbon impact to native soils was evident following the removal of the 20,000 gallon diesel UST. TPH analysis of soils collected from the north wall of the excavation confirmed the presence of TPH concentrations in excess of the 10 parts per million (ppm) clean up guideline established by the WDNR. Prior to backfilling the 20,000 gallon diesel UST excavation, two (2) sump pipes were installed in the excavation for the purpose of obtaining water samples.

Is it NR 141 approved?

On June 5, 1991 a water sample was collected from the sumps installed on April 29, 1990. The water sample was submitted to CBC Laboratories and analyzed for EPA Method 601 and 602 Volatile Organic Compounds (VOC's). EPA 601 and 602 VOC's were not present in concentrations above the detection limits of the analytical methods employed. Laboratory results from a water sample collected June 24, 1991 confirmed the June 5, 1991 results.

On August 15, 1991 approximately 180 tons of diesel fuel impacted soils stockpiled during the 20,000 gallon UST removal were transported to Parkview Landfill in Menomonee Falls, Wisconsin under disposal permit #WMA157779. Additionally, the piping run and dispenser island associated with the removed 20,000 gallon UST were removed along with an additional estimated 50 yards of diesel fuel impacted backfill and native soil. Petroleum Volatile Organic Compounds (PVOC) and Diesel Range Organics (DRO) analysis of soils collected from the dispenser island base and sidewalls of the piping run excavation revealed that concentrations of these compounds were below the detection limits of analytical methods employed.

Effective removal of impacted soils and the absence of EPA 601 and 602 method VOC's in excavation water prompts Sigma Environmental Services, Inc. to recommend that clean site closure be granted.

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Appendix

A. 1000 Gallon Waste Oil UST Analysis Results

B. 20,000 Gallon Diesel Fuel UST Analysis Results

C. Sump Water Sample Analysis Results

D. 150 Gallon Diesel Fuel UST Analysis Results

E. Over-Excavation Analysis Results

F. Tank Inventory Forms and UST Certificate of Destruction

G. Application To Treat Or Dispose Of Petroleum Contaminated Soils

1. INTRODUCTION

Sigma Environmental Services, Inc. has been retained by Mr. John Mommaerts of Wis-Pak, Inc. to conduct underground storage tank (UST) closure assessments on three (3) UST's removed from the Wis-Pak, Inc. facility located at 860 West Street in Watertown, Wisconsin. The purpose of this report is to provide documentation of the services performed on April 25, 26 and 29, 1991. The report identifies the personnel involved with the project and details the appropriate site information, field procedures, observations, and results of all laboratory analysis required by the Wisconsin Department of Natural Resources (WDNR).

2. PURPOSE AND SCOPE OF WORK

2.1 General Purpose of Work. The purpose of the subsurface closure assessments was to determine if the UST systems had adverse impacts on surrounding native soils and/or groundwater.

Richard Frasser, inspector for the Watertown Fire Department inspected the site and informed Sigma and OSI Environmental that all site safety requirements were being met and that permits for removal were not required.

2.2 Scope of Work. The following tasks were performed pertinent to the excavation and removal of three (3) UST's from the subject site.

- Visual inspections of the three (3) UST excavations for indications of petroleum hydrocarbon impacts.

- Field screening of backfill and native soils for sample selection locations.

- Stockpiling of diesel fuel impacted soil and backfill. Stockpiled materials were placed on asphalt and covered with 4 mil visquene sheeting.

- Collection and analysis of soil samples from locations specified by WDNR policy. Additional soil sampling was performed when petroleum hydrocarbon impact was apparent.

- Collection and analysis of one (1) soil sample for parameters necessary for obtaining a disposal permit at a WDNR approved Waste Management landfill.

- Collection and analysis of two (2) rounds of excavation water samples.

- Collection and analysis of one (1) sludge composite sample for disposal purposes.

- Documentation of the excavation geology, hydrogeology and UST system integrity.

- Documentation and review of local and regional geology and hydrogeology including well logs registered with the Wisconsin Geological and Natural History Survey.

- Documentation of the cleaning, transportation, and disposal of the UST systems. Sludges are presently staged on site awaiting disposal approval.

- Documentation of the impacted soil removal, transportation and disposal.

- Preparation of this assessment report which discusses observations, procedures and a request for clean closure for the site.

2.3 Contractors/Firms Performing Work. The following contractors and firms were involved in the UST closure assessments.

ENVIRONMENTAL CONSULTING FIRM

Sigma Environmental Services, Inc.
9555 South Howell Avenue, Suite 100
Oak Creek, Wisconsin 53154

LABORATORY SERVICES

CBC Environmental Laboratories
140 East Ryan Road
Oak Creek, Wisconsin 53154
WDNR Certification #241283020

AND

Swanson Environmental, Inc.
3150 North Brookfield Road
Brookfield, Wisconsin 53045

UST EXCAVATING CONTRACTOR

OSI Environmental, Inc.
P.O. Box 68
Pleasant Prairie, Wisconsin 53158-0068

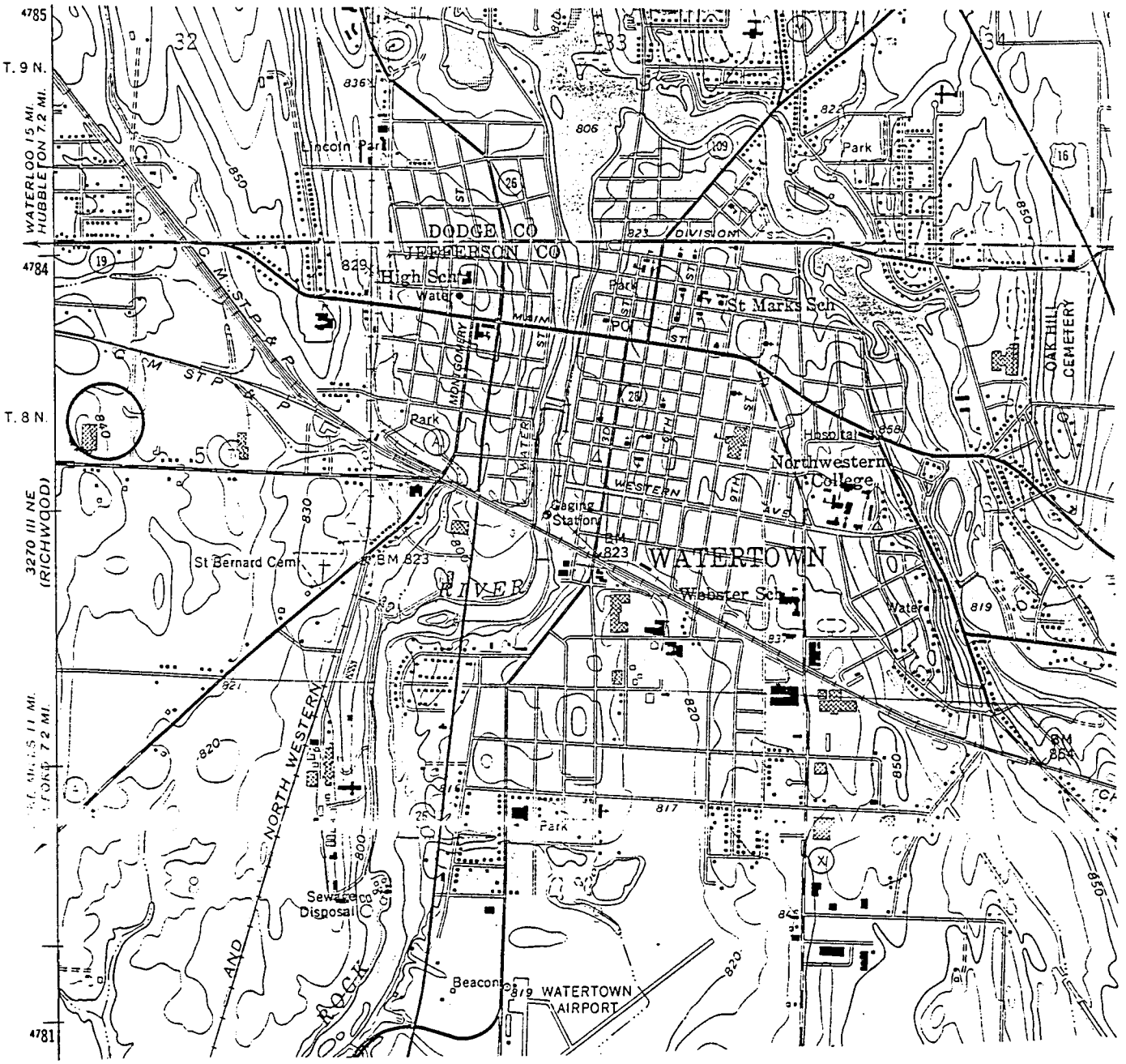
CONTAMINATED SOIL TRANSPORTER

C & D Investments, Ltd.
2000 Oakes Road
Racine, Wisconsin 53406
WDNR License # 12490

3. SITE DESCRIPTION AND BACKGROUND

3.1 Site Location/Setting. The site is located in the Southwest 1/4 of the Northwest 1/4 of Section 5, Township 8 North, Range 15 East, City of Watertown, Jefferson County, Wisconsin. Specifically, the address of the site is 860 West Street, Watertown, Wisconsin 53094. The site's location relative to the City of Watertown is presented in Figure 1.

3.2 Site Description. The Wis-Pak, Inc. property is approximately 10 acres in size and is located in a predominantly rural area of South Central Wisconsin. The layout of significant site features related to the UST removals can be found in Figures 2 and 3. The property is bordered to the north by residential homes, to the east by commercial businesses, to the south by residential homes and to the west by an undeveloped field.



SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

ADAPTED FROM USGS WATERTOWN QUADRANGLE

N

SIGMA
ENVIRONMENTAL SERVICES INC.

SCALE: 1:24,000	APPROVED BY:	DRAWN BY
DATE: 9-24-91		REVISED

WIS-PAK INC. LOCATION MAP 860 WEST STREET WATERTOWN, WI

DRAWING NUMBER
FIGURE 1

West Allis Blueprint G-196 M10 547885

4. FIELD OBSERVATIONS

4.1 1,000 Gallon Waste Oil UST Removal. On April 25, 1991 a 1,000 gallon waste oil UST was removed from an excavation adjacent to the truck maintenance building on the eastern portion of the Wis-Pak, Inc. property. The UST was 5.5 feet in diameter and 6.0 feet long. Although the UST appeared to be somewhat rusted, no holes or pitting were present.

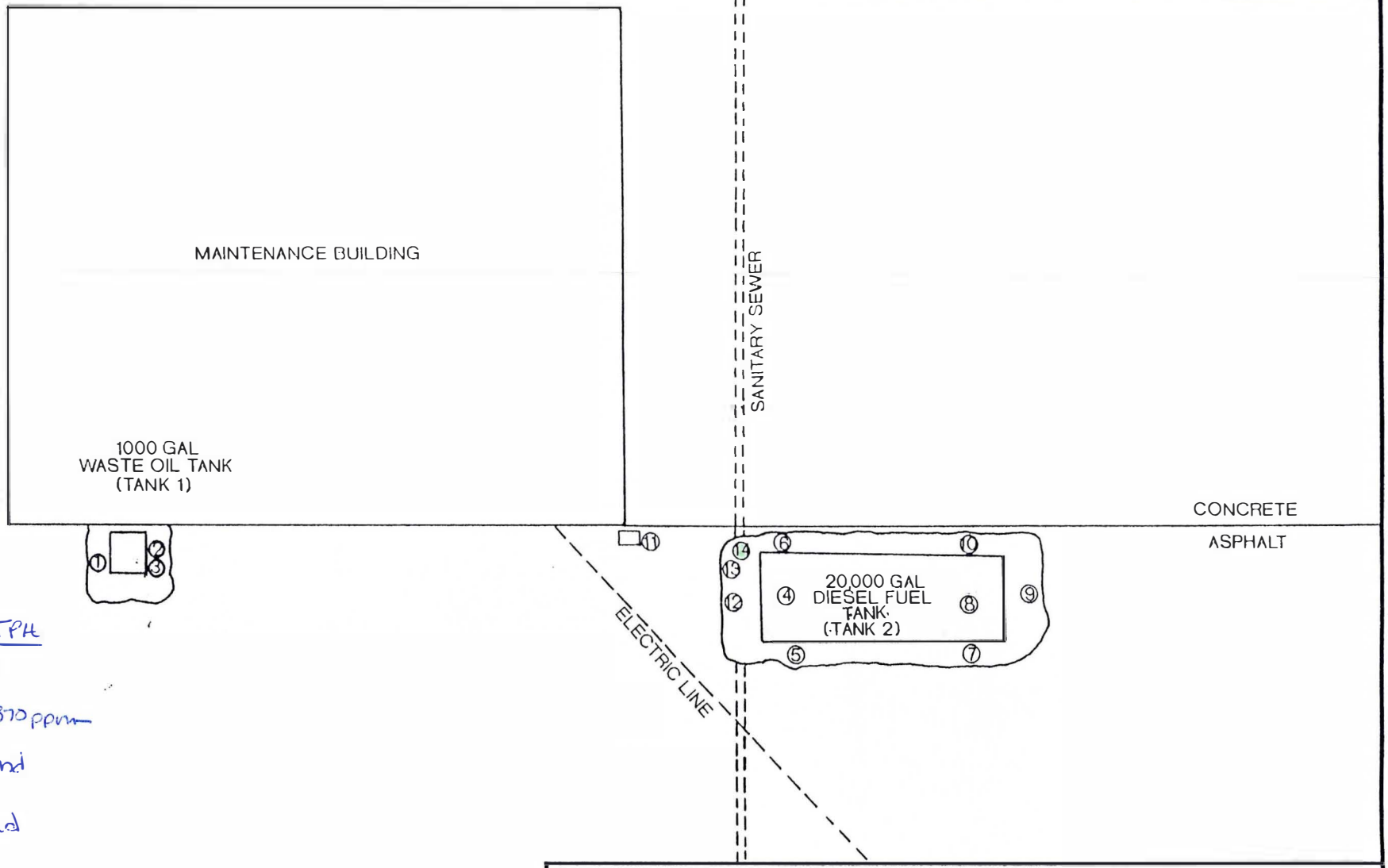
Prior to actual removal, approximately 65 gallons of product was removed from the UST, placed in DOT approved 55 gallon drums and left on site for future proper disposal as mandated by WDNR regulations.

Three soil samples were collected from the excavation following removal of the 1,000 gallon waste oil UST. The samples could not be collected from beneath the bases of the UST without seriously threatening the integrity of the maintenance buildings structure. Instead, native soil samples were collected from the north and south walls of the excavation at the deepest accessible locations (approximately 5 feet). The three (3) soil samples collected were as follows: why?

a) A sample from the north wall collected at 5 feet below ground surface (bgs).
b) A sample collected from the south wall at 5 feet bgs.
c) A sample collected from the south wall at 3 feet bgs.

The approximate locations of sampling points can be found on Figure 2. The three (3) soil samples were containerized in four ounce clean glass jars, sealed with teflon lined plastic lids and stored in an iced cooler for transport to CBC Environmental Laboratories. The soil samples were analyzed for Total Petroleum Hydrocarbons (TPH) concentration. In all three cases, the TPH concentrations were lower than the detection limit of the analytical method employed (<4.0 ppm).

Following the removal of the 1,000-gallon waste oil UST and collection of the soil samples, the excavation was backfilled with traffic bond grade gravel to its original grade.



TPH

# 16	6'	nd
# 14	4.5'	370 ppm
# 13	3'	nd
# 12	5'	nd
# 5	6'	nd
# 4	10'	nd

CONCRETE

SIGMA
ENVIRONMENTAL SERVICES INC.

SCALE: 1"=20'	APPROVED BY:	DRAWN BY
DATE: 5-20-91		REVISED

SITE PLAN MAP OF WIS-PAK CO.
860 WEST STREET WATERTOWN, WISCONSIN

DRAWING NUMBER
FIGURE 2

West Allis Blueprint G-196-M10 542221

Copies of the laboratory reports, including copies of the Chain-of-Custody documents and methodologies are presented as Appendix A. A summary of laboratory results is shown in Table 1.

TABLE 1
1,000 GALLON WASTE OIL UST SAMPLE RESULTS

Sample ID	Location	Depth	PID Value	Laboratory TPH Results
1	North Wall	5'	N.D.	<4.0
2	South Wall	5'	N.D.	<4.0
3	South Wall	3'	N.D.	<4.0

- PID values reported in ppm equivalents
- TPH values reported in ppm

4.2 20,000 Gallon Diesel Fuel UST Removal. On April 26, 1991 a 20,000 gallon diesel fuel UST was removed from the area southwest of the maintenance building of the subject property. The UST was 11 feet in diameter and 31 feet long. The UST was moderately rusted and small holes were present in the northern end seam.

Approximately 80 gallons of diesel fuel sludge material was cleaned from the 20,000 gallon UST following removal. The sludge was containerized in DOT approved 55 gallon drums and left on site for future proper disposal as mandated by WDNR regulations.

Obvious diesel fuel impact to backfill material was evident following the actual removal of the 20,000 gallon UST. Approximately 180 tons of impacted backfill material and native soils were stockpiled on visquene and covered with visquene for landfilling at a later date pending permitting.

Eleven (11) soil samples were collected from the excavation and dispenser island. One (1) sample was collected from each end base, six (6) samples were collected from the perimeters of the excavation, two (2) samples were collected from areas notably stained by product (northern end of excavation) and one (1) sample was collected from the base of the dispenser island. Sample locations can be found on Figure 2. TPH analysis was performed on seven (7) of the samples. Results

from field screening and laboratory analysis of the soil samples are summarized in Table 2. Copies of laboratory results are presented as Appendix B.

TABLE 2
20,000 GALLON DIESEL FUEL UST SAMPLE RESULTS

Sample ID	Location	Depth	PID Value	Laboratory TPH Results
4	North Base	10'	3.5	<4.0
5	West Wall-North	6'	N.D.	N.A.
6	East Wall-North	6'	N.D.	<4.0*
7	West Wall-South	6'	1.5	N.A.
8	South Base	10'	6.5	<4.0
9	South Wall	6'	3.0	<4.0
10	East Wall-South	6'	1.0	N.A.
11	Dispenser Base	1'	1.0	<4.0
12	North Wall	5'	17.5	<4.0
13	Piping-North	3'	N.D.	N.A.
14	Northeast Corner	4.5'	30.0	370 (diesel)

- PID values reported in ppm equivalents
- TPH values reported in ppm
- N.D. - no detection
- N.A. - not analyzed
- * - sample analyzed for VOC's - no significant concentrations detected

In addition to TPH analysis, the sample collected from the northern end of the east wall of the excavation (#6) was analyzed for Volatile Organic Compounds (VOC). No significant concentrations of VOC's were detected. why then one - no PID

4.2.1 Water Sampling and Analysis. Prior to the backfilling of the 20,000 gallon UST excavation, two (2) sumps were installed for the purpose of collecting excavation water samples.

Excavation water samples were collected on June 5, 1991 and again on June 24, 1991. The water samples were submitted to CBC Environmental Laboratories and analyzed for EPA method 601 and 602 Volatile Organic Compounds (VOC's) plus lead. No VOC's or lead were detected in either sample round. Copies of the laboratory analytical reports are presented as Appendix C.

4.3 150 Gallon Diesel Fuel UST Removal. On April 29, 1991, a 150 gallon diesel fuel UST used for storing fuel for a back-up generator was removed from the area south of the main structure of the Wis-Pak, Inc. property. The UST was approximately three feet long and two feet in diameter. The UST was slightly rusted but in overall good condition. Approximately 10 gallons of residual sludge was removed from the UST, containerized in a DOT approved 55 gallon drum and left on site for future proper disposal as mandated by the WDNR.

Two (2) soil samples were collected following removal of the 150 gallon UST: one (1) from each base. Sample locations can be found on Figure 3. The soil samples were submitted to CBC Environmental laboratories and analyzed for TPH. Laboratory analysis revealed that TPH concentrations were lower than the detection limit of the analytical method employed (<4.0 ppm). Copies of laboratory analysis reports are presented as Appendix D. Field screening and laboratory results are summarized in Table 3.

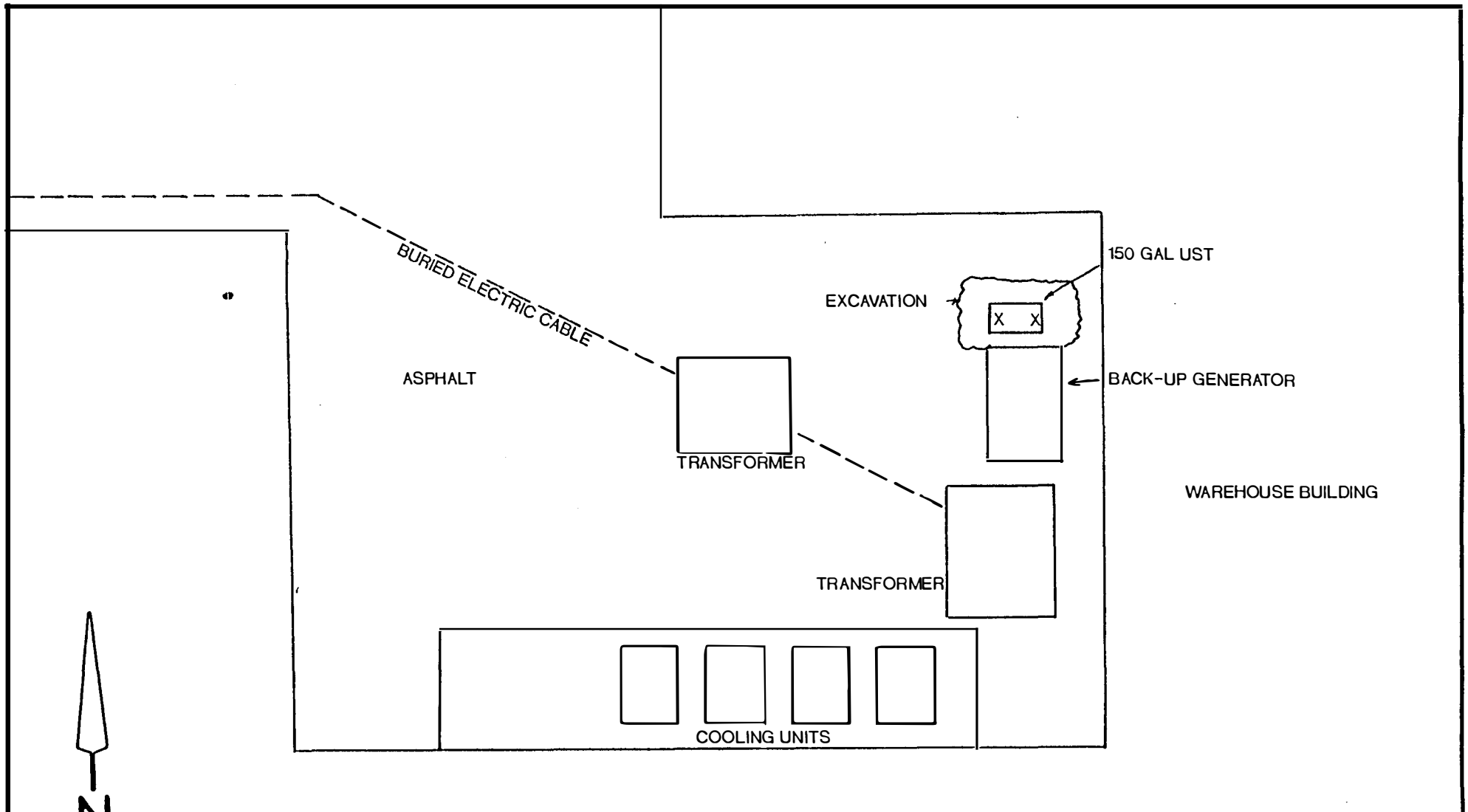
TABLE 3
150 GALLON DIESEL FUEL UST SAMPLE RESULTS

Sample ID	Location	Depth	PID Value	Laboratory TPH Results
15	East Base	3'	N.D.	<4.0
16	West Base	3'	N.D.	<4.0

- PID values reported in ppm equivalents
- TPH values reported in ppm

4.4 Underground Storage Tank Disposal. The three (3) underground storage tanks removed from the Wis-Pak property were purged of flammable vapors using a diffused air blower. Sludges were removed and containerized on site in DOT approved 55 gallon drums, sampled and analyzed, and left on site pending proper disposal approval.

The UST's were dismantled on site and delivered to Racine Recycling, 1339 17th Street, Racine, Wisconsin, as scrap metal. Tank Inventory Forms and a UST certificate of destruction are presented as Appendix F.



X--SAMPLE LOCATION

SIGMA
ENVIRONMENTAL SERVICES INC.

SCALE: 1"=10'	APPROVED BY:	DRAWN BY
DATE: 10-4-91		REVISED

150 GALLON DIESEL FUEL UST LOCATION MAP
WIS-PAK CO. WATERTOWN, WI

DRAWING NUMBER
FIGURE 3

West Allis Blueprint G-196-M10 542221

4.5 Sample Collection Techniques.

4.5.1 Soil Samples. Two (2) soil samples were collected from each sampling location and immediately containerized. Preferential sample collection was given to areas visibly stained, or where strong odors were noted. The first sample was containerized in a four ounce glass jar and sealed with a teflon-lined screw on cap. The sample jar was filled to the top so that no headspace remained. Each sample was properly labeled and placed in an iced cooler for transport to the laboratory for TPH analysis.

The second soil sample jar was filled approximately 1/2 full and sealed with a plastic screw on cap. The 1/2 full jar was then agitated to facilitate the release of organic vapors for the purpose of field screening the headspace with a H-nU photoionization detector utilizing a 10.6 electron volt (eV) lamp calibrated in the field for direct response to 57 parts per million isobutylene.

4.5.2 Sump Water Samples. Sump water samples were collected by lowering a decontaminated teflon bailer equipped with a bottom emptying device into the sumps. The bailer was then withdrawn from the sump and the water was containerized into 40 milliliter vials. The vials were placed in an iced cooler for transport to CBC Environmental Laboratories.

5. REMEDIATION BY OVER-EXCAVATION

5.1 Field Procedures. On August 15, 1991, 228.80 tons of petroleum hydrocarbon impacted backfill material stockpiled during the removal of the 20,000 gallon diesel fuel UST and impacted native soil from the northern end of the excavation surrounding the piping and dispenser island location were transported to Parkview Landfill, N96 W13475 County Line Road, Menomonee Falls, Wisconsin 53051, under permit #WMA157779. An application to treat or dispose of petroleum contaminated soils is presented as Appendix G.

Excavated soils were sampled and field screened with a Microtip™ photoionization detection (PID) meter every 15 cubic yards to verify contamination. In addition, one (1) excavated soil sample was submitted and

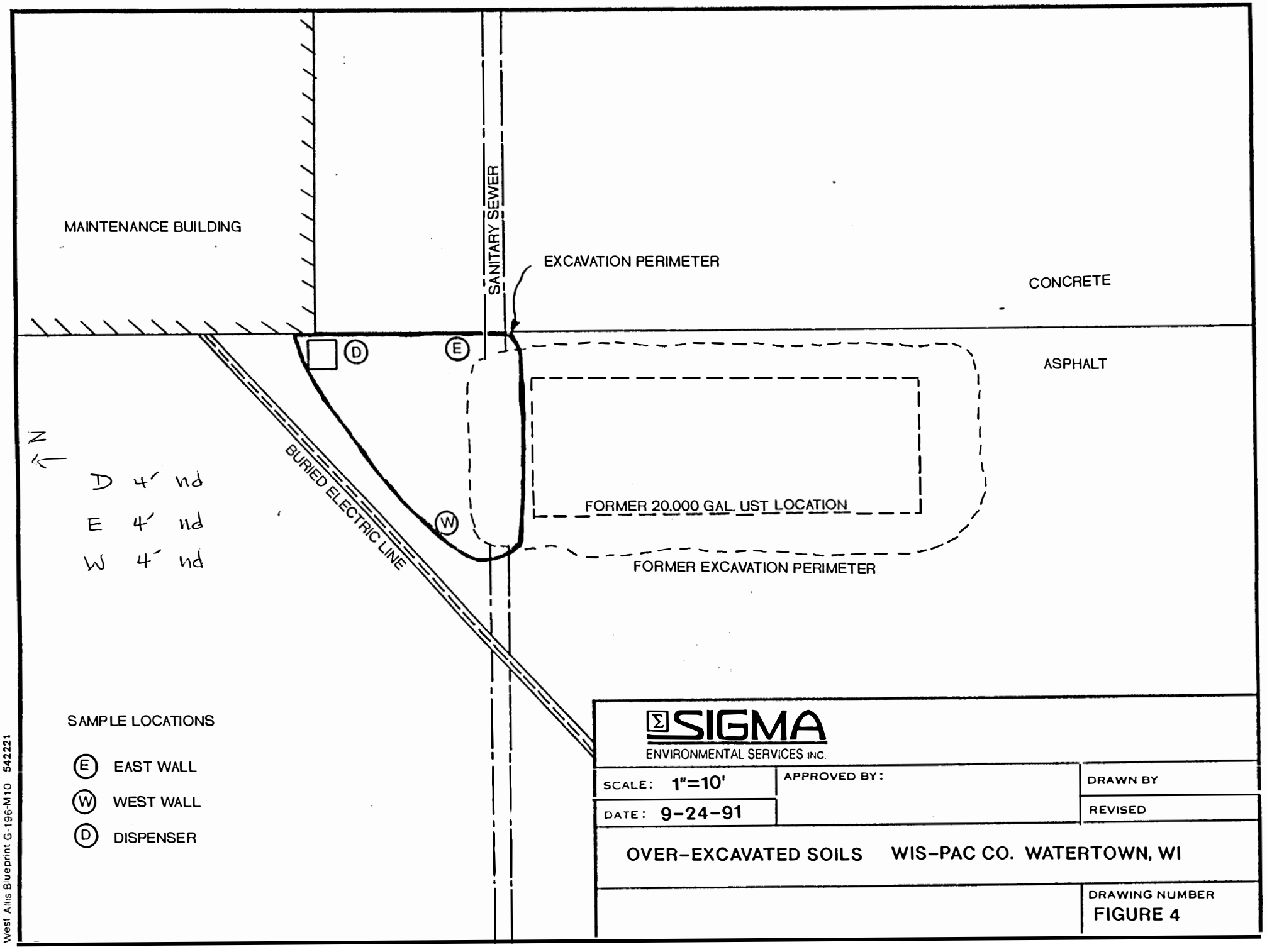
analyzed for Diesel Range Organics (DRO) in compliance with WDNR requirements for confirming impact of landfilled soils.

5.2 Remediation Verification Sampling. Following the removal of the stockpiled backfill material and impacted soils from the northern perimeter of the 20,000 gallon diesel fuel UST excavation, piping run and dispenser island, three (3) soil samples were collected from the perimeters of the piping run/dispenser excavation. One (1) soil sample was collected from the west wall at a depth of 4', one (1) soil sample was collected from the east wall at a depth of 4' and one (1) sample was collected from beneath the dispenser island at a depth of 4'. The approximate locations of these sampling points can be found on Figure 4. The soil samples were immediately containerized in clean four ounce jars with teflon lined lids and placed in an iced cooler for transport to Swanson Environmental, Inc. for Diesel Range Organics (DRO) and Petroleum Volatile Organic Compound (PVOC) analysis. Analysis results indicate that DRO and PVOC concentrations were not present in the soil samples in levels above the detection limits of the analytical methods employed (DRO: <5.0 ppm, PVOC: <0.05 ppm). A summary of the soil sample analytical results is presented as Table 4.

TABLE 4
PIPING RUN/DISPENSER EXCAVATION PERIMETER
SOIL SAMPLE FIELD SCREENING AND ANALYTICAL RESULTS

Parameter	Dispenser Island	East Wall	West Wall
PID Value	1.4	1.7	0.9
Benzene	<0.05	<0.05	<0.05
Ethylbenzene	<0.05	<0.05	<0.05
Methyl t-butyl ether	<0.05	<0.05	<0.05
Toluene	<0.05	<0.05	<0.05
1,2,4-Trimethylbenzene	<0.05	<0.05	<0.05
1,3,5-Trimethylbenzene	<0.05	<0.05	<0.05
Xylenes	<0.05	<0.05	<0.05
TPH as Diesel Range Organics (DRO)	<5.0	<5.0	<5.0

- PID values reported in parts per million (ppm) equivalents
- Analysis results reported in ppm


MAINTENANCE BUILDING
SANITARY SEWER
EXCAVATION PERIMETER
CONCRETE
ASPHALT
D
E
W
N
D 4' nd
E 4' nd
W 4' nd
BURIED ELECTRIC LINE
FORMER 20,000 GAL. UST LOCATION
FORMER EXCAVATION PERIMETER
SAMPLE LOCATIONS
E EAST WALL
W WEST WALL
D DISPENSER
SIGMA
ENVIRONMENTAL SERVICES INC.
SCALE: 1"=10'
APPROVED BY:
DRAWN BY
DATE: 9-24-91
REVISED
OVER-EXCAVATED SOILS WIS-PAC CO. WATERTOWN, WI
DRAWING NUMBER
FIGURE 4
West Allis Blueprint G-196-M10 542221

A copy of the Swanson Environmental, Inc. laboratory analytical report is presented as Appendix E.

5.3 Wisconsin Soil Quality Regulations. The Wisconsin Department of Natural Resources reviews each LUST case individually to determine if additional investigation or some type of remediation is necessary. Currently, the WDNR is enforcing a cleanup guideline of 10 ppm for Diesel Range Organics (DRO) in soil. The three (3) soil samples collected from the piping run/dispenser excavation had DRO concentrations below WDNR established guidelines.

5.4 Wisconsin Groundwater Quality Regulations. The State of Wisconsin has established groundwater quality standards for substances detected in or having a reasonable probability of entering the groundwater resources of the State. These standards are found in Chapter NR 140.10 of the Wisconsin Administrative Code. The State has established both Preventive Action Limits (PAL) and Enforcement Standards (ES) for specific substances.

The regulations state that when a PAL has been attained or exceeded, the owner of the facility must notify the WDNR, who will then assess the cause and significance of the impacts and determine appropriate response measures. The regulations also state that when an ES has been attained or exceeded, the WDNR shall or may require remedial action.

6. SUBSURFACE CHARACTERISTICS

6.1 Regional Geology. The regional geologic setting of the subject site and the greater Watertown area is composed of unconsolidated Pleistocene deposits which overlie bedrock. The glacial deposits of Pleistocene age are moderately thin and provide small to moderate amounts of water. Directly below the glacial deposits is the eroded bedrock surface consisting of (from youngest to oldest) interbedded Ordovician dolomites and sandstones, Cambrian sandstone formations and basement crystalline rocks of precambrian age.

6.2 Regional Hydrogeology. Natural drainage within the area is moderately developed and is mainly toward the Rock River.

There are three (3) primary aquifers in the area from which water can be obtained. Moderate amounts of water can be pumped from sand and gravel outwash deposits situated throughout the unconsolidated Pleistocene deposits. Directly below the sand and gravel aquifer lies the Galena-Platteville aquifer of Ordovician age. The majority of domestic wells pump water from this aquifer. The sandstone aquifer (all sedimentary bedrock below the Galena-Platteville unit) is not normally used for domestic wells although industry and municipalities often use water from this aquifer. Precipitation is the major source of recharge in this locality.

6.3 Local Soil Type. The soil types encountered at the site during the UST removal and over-excavation activities consist primarily of silts and clays with varying percentages of sands and gravels. Six inches of asphalt covered the Wis-Pak property lot in the vicinity of the removed 20,000 gallon diesel fuel UST.

Perched or excavation/foundation water was encountered in the 20,000 gallon diesel fuel UST excavation at approximately 8 feet below ground surface. This level may or may not represent the true groundwater table elevation.

7. PROJECT SUMMARY

The following project summary is based on the observations and data collected during the underground storage tank closure assessments performed on April 25,26 and 29, 1991, and the removal of contaminated soils stockpiled on the site and present at the northern end of the 20,000 gallon diesel fuel UST on August 15, 1991.

- Three (3) UST's were removed from the subject site: One 1000 gallon waste oil UST, one 20,000 gallon diesel fuel UST, and one 150 gallon diesel fuel UST.

- Soil samples were collected from each of the UST excavations and analyzed for Total Petroleum Hydrocarbons (TPH) in accordance with WDNR/DILHR guidelines.

- Analysis of soil samples collected from the northern end of the 20,000 gallon diesel fuel UST excavation revealed the presence of TPH in excess of the WDNR soil clean-up guideline of 10 ppm.

- Approximately 180 tons of petroleum hydrocarbon impacted backfill material from the 20,000 gallon diesel fuel UST excavation was stockpiled on site for future proper disposal.

- Tank sludges were containerized in DOT approved 55 gallon drums and left on site pending disposal approval.

- The UST's were dismantled on site and transported to Racine Recycling as scrap metal.

- The excavations were backfilled to grade with traffic bond grade gravel. Two sump pipes were placed in the 20,000 gallon diesel fuel UST excavation prior to backfilling for the purpose of obtaining water samples for analysis.

- On June 5, 1991 and June 24, 1991 water samples were collected from the sump pipes and analyzed for EPA 601 and 602 Volatile Organic Compounds (VOC's) plus lead. VOC's and lead were not present in concentrations above the detection limits of the analytical methods employed.

- On August 15, 1991, 228.80 tons of petroleum hydrocarbon impacted backfill material stockpiled during the removal of the 20,000 gallon diesel fuel UST and impacted native soil from the northern end of the excavation surrounding the piping and dispenser island location were transported to Parkview Landfill under permit #WMA157779.

- Soil samples were collected from the sidewalls of the piping run/dispenser excavation and analyzed for Diesel Range Organics (DRO) and Petroleum Volatile Organic Compounds (PVOC). Analysis results indicate that DRO and PVOC concentrations were not present in the soil samples in levels above the detection limits of the analytical methods employed.

- The piping run/dispenser excavation was backfilled to grade with traffic bond grade gravel.

- This closure assessment/remediation report, which discusses observations, procedures, and a request for clean closure for this project was prepared.

8. RECOMMENDATIONS

Based on observations and data obtained during the removal of three (3) UST's from the Wis-Pak, Inc. property and the successful over-excavation of diesel fuel impacted soils from the northern end of the 20,000 gallon diesel fuel UST excavation, Sigma Environmental Services, Inc. recommends no further investigation. Furthermore, clean closure is requested form the Wisconsin Department of Natural Resources and the Wisconsin Department of Industry, Labor and Human Relations.

9. LIMITATIONS OF INVESTIGATION

This report was prepared under constraints of cost, time, and scope, and reflects a limited assessment and evaluation rather than a full, total, complete or extensive assessment and evaluation.

Our assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by Professional Consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusion and professional advice included in this report.

The findings of this report are valid as of the present date of the assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

The interpretations and conclusions contained in this report are based upon the result of independent laboratory tests and analysis intended to detect the presence and/or concentrations of certain chemical constituents in samples taken from the subject property. Sigma Environmental Services, Inc. has no control over such testing and analysis and therefore, disclaims any responsibility for any errors and omissions arising therefrom.

A subsurface exploration was performed and presented in this report. However, subsurface exploration cannot reveal totally what is below the surface. Depending upon the sampling method and frequency, every soil condition may not be observed, and some materials or layers which are present in the subsurface may not be noted.

This report is issued with the understanding that it is the responsibility of the owner(s) to ensure that the information and recommendations contained herein are brought to the attention of the appropriate regulatory agency(ies).

This report has been prepared specifically for Mr. John Mommaertz of Wis-Pak Inc. Reproduction or distribution of this report should not be performed without written consent of Mr. John Mommaertz of Wis-Pak Inc. and Sigma Environmental Services, Inc.

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APPENDIX A

1,000 GALLON WASTE OIL UST ANALYSIS RESULTS

ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION

1140 E. RYAN RD.
OAK CREEK, WI 53154
(414) 764-7005
1-800-365-3840

CLIENT: Sigma Environmental

PROJECT LOCATION: Wis-Pak Walestown — PS20458

QUOTE NUMBER:

CHAIN OF CUSTODY

PLEASE PRESS FIRMLY WHEN WRITING

No. 42369

SAMPLER (Signature)	AFFILIATION	DATE	TIME
Steve Benton	Sigma Hydro	4-29-91	4:30 pm

PURPOSE OF ANALYSIS: TPH - G.C. SOIL

PS20458

ITEM NUMBER	NUMBER AND SIZE OF CONTAINERS	DESCRIPTION	TRANSFER NUMBER 1	2	3	4	5
1	1 4 oz glass	Waste Oil / North Wall / 5' / N.D.					
2		Waste Oil / South Wall / 5' / N.D.					
3		Waste Oil / South Wall / 3' / 1					
4		Excavation #2 / North Base / PID 3.5					
5		Excavation #2 / South Base / PID 6.5					
6		Excavation #2 / South Wall / PID 3					
7		Excavation #2 / North Wall / PID 17.5					
8		Excavation #2 / N-E Corner / PID 30					
9		Excavation #2 / Dispenser / PID 1					
10		Excavation #3 / West Base					
11		Excavation #3 / East Base					

Results to STEVE BENTON
NORMAL T.A.T.

TRANSFER NUMBER	ITEM NUMBER	RELINQUISHED BY (Signature)	ACCEPTED BY (Signature)	DATE	TIME
1	1-11	Steve Benton	Bibby John	4-29-91	4:40
2					
3					
4					
5					

CHEM-BIO CORPORATION
ENVIRONMENTAL SERVICES
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

05/07/91 LABORATORY REPORT

C739 8462497 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11547 SOIL/WASTE OIL/NORTH WALL/5'/N.D./WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

CHEM·BIO CORPORATION
ENVIRONMENTAL SERVICES
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

05/07/91 LABORATORY REPORT

C739 8462497 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11548 SOIL/WASTE OIL/SOUTH WALL/5'/N.D./WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL MTL.

CHEM-BIO CORPORATION
ENVIRONMENTAL SERVICES
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

05/07/91 LABORATORY REPORT

C739 8462497 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11555 SOIL/WASTE OIL/SOUTH WALL/3'/WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

APPENDIX B

20,000 GALLON DIESEL FUEL UST ANALYSIS RESULTS

ENVIRONMENTAL SERVICES
CHEM-BIO CORPORATION

140 E. RYAN RD
OAK CREEK, WI 53154
(414) 764-7005
1-800-365-3840

CHAIN OF CUSTODY

No. 42369

PLEASE PRESS FIRMLY WHEN WRITING

CLIENT: Sigma Environmental

PROJECT LOCATION: Wis Pak Watertown

QUOTE NUMBER: PS20458

SAMPLER (Signature)	AFFILIATION	DATE	TIME
Steve Benton	Sigma Hydro	4-29-91	4:30 pm

PURPOSE OF ANALYSIS: TPH-GC SOIL

PS20458

ITEM NUMBER	NUMBER AND SIZE OF CONTAINERS	DESCRIPTION	TRANSFER NUMBER 1	2	3	4	5
1	1 4 oz glass	Waste Oil / North Wall / 5' / N.D.					
2		Waste Oil / South Wall / 5' / N.D.					
3		Waste Oil / South Wall / 3' / 1					
4		Excavation #2 / North Base / PID 3.5					
5		Excavation #2 / South Base / PID 6.5					
6		Excavation #2 / South Wall / PID 3					
7		Excavation #2 / North Wall / PID 17.5					
8		Excavation #2 / N.E. Corner / PID 30					
9		Excavation #2 / Dispenser / PID 1					
10		Excavation #3 / West Base					
11		Excavation #3 / East Base					

Results to STEVE BENTON
No EMC, T.A.T.

TRANSFER NUMBER	ITEM NUMBER	RELINQUISHED BY (Signature)	ACCEPTED BY (Signature)	DATE	TIME
1	1-11	Steve Benton	Bailey J. [illegible]	4-29-91	4:40
2					
3					
4					
5					

ENVIRONMENTAL SERVICES
CHEM-BIO CORPORATION

140 E. RYAN RD.
OAK CREEK, WI 53154
(414) 764-7005
1-800-365-3840

CHAIN OF CUSTODY

No. 42370

PLEASE PRESS FIRMLY WHEN WRITING

CLIENT: Sigma Environmental

PROJECT LOCATION: PS 2045 B Wis-Pak Watertown

QUOTE NUMBER:

SAMPLER (Signature)	AFFILIATION	DATE	TIME
Steve Benton	Sigma Hydro	4-29-91	4:30 pm

PURPOSE OF ANALYSIS: T.P.H. - G.C. V.O.C. AP300 Xylene SOIL

ITEM NUMBER	NUMBER AND SIZE OF CONTAINERS	DESCRIPTION	TRANSFER NUMBER 1	2	3	4	5
1	1 40cc glass	Excavation #2 / Eastwall - North End					

Results to STEVE BENTON

NORMAL TAT

TRANSFER NUMBER	ITEM NUMBER	RELINQUISHED BY (Signature)	ACCEPTED BY (Signature)	DATE	TIME
1	1	Steve Benton	[illegible]	4-29-91	4:40 pm
2					
3					
4					
5					

CHEM-BIO CORPORATION
ENVIRONMENTAL SERVICES
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

05/07/91 LABORATORY REPORT

C739 8462497 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11556 SOIL/EXCAVATION #2/NORTH BASE/PID 3.5/WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL M.T.

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

05/16/91 LABORATORY REPORT

C739 8462498 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11762 SOIL/EXCAVATION #2/EAST WALL-NORTH END/WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPM
BROMOFORM	<1.0	PPM
CARBON TETRACHLORIDE	<1.0	PPM
CHLOROBENZENE	<1.0	PPM
CHLORODIBROMOMETHANE	<1.0	PPM
CHLOROETHANE	<5.0	PPM
2-CHLOROETHYLVINYL ETHER	<1.0	PPM
CHLOROFORM	<1.0	PPM
DICHLOROBROMOMETHANE	<1.0	PPM
1,1-DICHLOROETHANE	<1.0	PPM
1,2-DICHLOROETHANE	<1.0	PPM
1,1-DICHLOROETHYLENE	<1.0	PPM
1,2-DICHLOROPROPANE	<1.0	PPM
CIS-1,3-DICHLOROPROPENE	<1.0	PPM
ETHYLBENZENE	<1.0	PPM
BROMOMETHANE	<5.0	PPM
CHLOROMETHANE	<5.0	PPM
METHYLENE CHLORIDE	7.8	PPM
	BLANK CONCENTRATION = 2.7 PPB	
1,1,2,2-TETRACHLOROETHANE	<1.0	PPM
TETRACHLOROETHYLENE	<1.0	PPM
TOLUENE	<1.0	PPM
1,2-TRANSDICHLOROETHYLENE	<1.0	PPM
1,1,1-TRICHLOROETHANE	<1.0	PPM
1,1,2-TRICHLOROETHANE	<1.0	PPM
TRICHLOROETHYLENE	<1.0	PPM
TRICHLOROFLUOROMETHANE	<1.0	PPM
VINYL CHLORIDE / FREON 12	<5.0	PPM
TRANS-1,3-DICHLOROPROPENE	<1.0	PPM
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

ENVIRONMENTAL SERVICES
CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

C739 8462498 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11762 SOIL/EXCAVATION #2/EAST WALL-NORTH END/WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
XYLENE, TOTAL	<1.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

ENVIRONMENTAL SERVICES
CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

05/07/91 LABORATORY REPORT

C739 8462497 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11557 SOIL/EXCAVATION #2/SOUTH BASE/PID 6.5/WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

CHEM-BIO CORPORATION
ENVIRONMENTAL SERVICES
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

05/07/91 LABORATORY REPORT

C739 8462497 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11558 SOIL/EXCAVATION #2/SOUTH WALL/PID 3/WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

05/15/91 LABORATORY REPORT

C739 8462497 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11562 SOIL/EXCAVATION #2/DISPENSER/PID 1/WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

ENVIRONMENTAL SERVICES
CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

05/07/91 LABORATORY REPORT

C739 8462497 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11559 SOIL/EXCAVATION #2/NORTH WALL/PID 17.5/WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

CHEM-BIO CORPORATION
ENVIRONMENTAL SERVICES
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

05/07/91 LABORATORY REPORT

C739 8462497 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11561 SOIL/EXCAVATION #2/N-E CORNER/PID 30/WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	370	PPM
	DIESEL	
	BASED ON SIMILARITIES TO DIESEL STANDARD.	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

APPENDIX C

SUMP WATER SAMPLE ANALYSIS RESULTS

ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION

140 E. RYAN RD.
OAK CREEK, WI 53154
(414) 764-7005
1-800-365-3840

CHAIN OF CUSTODY

No. 42514

PLEASE PRESS FIRMLY WHEN WRITING

CLIENT: Sigma Environmental

PROJECT LOCATION: (PS20458) WIS PAK WATERTOWN

QUOTE NUMBER:

SAMPLER (Signature)	AFFILIATION	DATE	TIME
Steve Benton	STAFF HYDRO	6/5/91	12:30pm

PURPOSE OF ANALYSIS: EPA 601-602 + LEAD

ITEM NUMBER	NUMBER AND SIZE OF CONTAINERS	DESCRIPTION	TRANSFER NUMBER 1	2	3	4	5
1	6 - 40ml V.O. Bottles	EXCAVATION #2/SUMP 1/2nd Sample					
		ROUTE RESULTS TO STEVE BENTON BY JUNE 18, 1991 (NORMAL TAT)					

TRANSFER NUMBER	ITEM NUMBER	RELINQUISHED BY (Signature)	ACCEPTED BY (Signature)	DATE	TIME
1	1	Steve Benton	A. Safeiste	6-5-91	1PM
2					
3					
4					
5					

ENVIRONMENTAL SERVICES
CHEM-BIO CORPORATION

140 E. RYAN RD.
OAK CREEK, WI 53154
(414) 764-7005
1-800-365-3840

CHAIN OF CUSTODY

No. 42574

PLEASE PRESS FIRMLly WHEN WRITING

CLIENT: SIGMA ENVIRONMENTAL
PROJECT LOCATION: (P52045) WIS-DAR WATERTOWN
QUOTE NUMBER:

SAMPLER (Signature)	AFFILIATION	DATE	TIME
[illegible]	SIGMA HYDROGEOLOGIST	6/24/91	4:00 pm

PURPOSE OF ANALYSIS: EPA 601-602 + LEAD (WATER)

ITEM NUMBER	NUMBER AND SIZE OF CONTAINERS	DESCRIPTION	TRANSFER NUMBER 1	2	3	4	5
1	3 40ml VOA bottles	EXCAVATION #2 / SUMP 1 / CONFIRMATION SAMPLE					
		C739					
		840430					
		0045					
		9115					
		RESULTS TO STEVE BERTON BY 7/19/91					
		C1542					
		* SUBMITTED ON ICE					

TRANSFER NUMBER	ITEM NUMBER	RELINQUISHED BY (Signature)	ACCEPTED BY (Signature)	DATE	TIME
1		[illegible]	[illegible]	6/24/91	4:00
2		[illegible]	[illegible]	6/24/91	4:20
3		[illegible]			
4					
5					

ENVIRONMENTAL SERVICES
CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

06/14/91 LABORATORY REPORT

C739 8463698 W21

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91156-C11520 WATER/PSZ0458/WIS PAK/WATERTOWN/EXCAVATION #2/
SUMP 1/2ND SAMPLE
DATE COLLECTED 06/05/91 DATE RECEIVED 06/05/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPB
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	<1.0	PPB
CHLORODIBROMOMETHANE	<1.0	PPB
CHLOROETHANE	<5.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1,1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	<1.0	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	<1.0	PPB
BROMOMETHANE	<5.0	PPB
CHLOROMETHANE	<5.0	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	<1.0	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	<1.0	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	<5.0	PPB
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB
LEAD - TOTAL	<0.10	PPB
XYLENE, TOTAL	<1.0	PPB

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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

CHEM-BIO CORPORATION

ENVIRONMENTAL LABORATORIES

07/11/91 LABORATORY REPORT

C739 8464342 W61

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91175-C11542 WATER/EXCAVATION #2 SUMP 1 CONFIRMATION SAMPLE/
WIS PAK/WATERTOWN/PSZ0458
DATE COLLECTED 06/24/91 DATE RECEIVED 06/24/91
PRESERVED: NO TEMPERATURE: ON ICE
INTEGRITY: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
BENZENE	2.5	PPB	07/02/91	EPA 601, 602	
BROMOFORM	<1.0	PPB	07/02/91	EPA 601, 602	
CARBON TETRACHLORIDE	<1.0	PPB	07/02/91	EPA 601, 602	
CHLOROBENZENE	<1.0	PPB	07/02/91	EPA 601, 602	
CHLORODIBROMOMETHANE	<1.0	PPB	07/02/91	EPA 601, 602	
CHLOROETHANE	<5.0	PPB	07/02/91	EPA 601, 602	
2-CHLOROETHYLVINYL ETHER	<1.0	PPB	07/02/91	EPA 601, 602	
CHLOROFORM	<1.0	PPB	07/02/91	EPA 601, 602	
DICHLOROBROMOMETHANE	<1.0	PPB	07/02/91	EPA 601, 602	
1,1-OICHLOROETHANE	<1.0	PPB	07/02/91	EPA 601, 602	
1,2-OICHLOROETHANE	<1.0	PPB	07/02/91	EPA 601, 602	
1,1-OICHLOROETHYLENE	<1.0	PPB	07/02/91	EPA 601, 602	
1,2-OICHLOROPROPANE	<1.0	PPB	07/02/91	EPA 601, 602	
CIS-1,3-DICHLOROPROPENE	<1.0	PPB	07/02/91	EPA 601, 602	
ETHYLBENZENE	<1.0	PPB	07/02/91	EPA 601, 602	
BROMOMETHANE	<5.0	PPB	07/02/91	EPA 601, 602	
CHLOROMETHANE	<5.0	PPB	07/02/91	EPA 601, 602	
METHYLENE CHLORIDE	4.3	PPB	07/02/91	EPA 601, 602	
	BLANK CONCENTRATION = 9.7 PPB				
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB	07/02/91	EPA 601, 602	
TETRACHLOROETHYLENE	<1.0	PPB	07/02/91	EPA 601, 602	
TOLUENE	<1.0	PPB	07/02/91	EPA 601, 602	
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB	07/02/91	EPA 601, 602	
1,1,1-TRICHLOROETHANE	<1.0	PPB	07/02/91	EPA 601, 602	
1,1,2-TRICHLOROETHANE	<1.0	PPB	07/02/91	EPA 601, 602	
TRICHLOROETHYLENE	<1.0	PPB	07/02/91	EPA 601, 602	
TRICHLOROFLUOROMETHANE	<1.0	PPB	07/02/91	EPA 601, 602	
VINYL CHLORIDE / FREON 12	<5.0	PPB	07/02/91	EPA 601, 602	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED
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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL WRS

CHEM-BIO CORPORATION

ENVIRONMENTAL LABORATORIES

C739 8464342 W61

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91175-C11542 WATER/EXCAVATION #2 SUMP 1 CONFIRMATION SAMPLE/
WIS PAK/WATERTOWN/PSZ0458
DATE COLLECTED 06/24/91 DATE RECEIVED 06/24/91
PRESERVED: NO TEMPERATURE: ON ICE
INTEGRITY: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB	07/02/91	EPA 601, 602	
LEAD - TOTAL	<200	PPB	06/26/91	EPA 239.1	
XYLENE, TOTAL	<1.0	PPB	07/02/91	EPA 602	

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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL CWS/KMM

APPENDIX D

150 GALLON DIESEL FUEL UST ANALYSIS RESULTS

ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION

140 E. RYAN RD.
OAK CREEK, WI 53154
(414) 764-7005
1-800-365-3840

CLIENT: Sigma Environmental

PROJECT LOCATION: Wis-Pak Walworth

PS20458

QUOTE NUMBER:

CHAIN OF CUSTODY

PLEASE PRESS FIRMLY WHEN WRITING

No. 42369

SAMPLER (Signature)	AFFILIATION	DATE	TIME
Steve Benton	Sigma Hydro	4-29-91	430 pm

PURPOSE OF ANALYSIS: TPH-GC SOIL

PS20458

ITEM NUMBER	NUMBER AND SIZE OF CONTAINERS	DESCRIPTION	TRANSFER NUMBER 1	2	3	4	5
1	1 4oz glass	Waste Oil / North Wall / 5' / N.D.					
2		Waste Oil / South Wall / 5' / N.D.					
3		Waste Oil / South Wall / 3' / 1					
4		Excavation #2 / North Base / PID 3.5					
5		Excavation #2 / South Base / PID 6.5					
6		Excavation #2 / South Wall / PID 3					
7		Excavation #2 / North Wall / PID 17.5					
8		Excavation #2 / N-E Corner / PID 30					
9		Excavation #2 / Dispenser / PID 1					
10		Excavation #3 / West Base					
11		Excavation #3 / East Base					

Results to STEVE BENTON
NORMAL T.A.T.

TRANSFER NUMBER	ITEM NUMBER	RELINQUISHED BY (Signature)	ACCEPTED BY (Signature)	DATE	TIME
1	1-11	Steve Benton	Bibby John	4-29-91	440
2					
3					
4					
5					

CHEM-BIO CORPORATION
ENVIRONMENTAL SERVICES
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

05/07/91 LABORATORY REPORT

C739 8462497 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11760 SOIL/EXCAVATION #3/EAST BASE/WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

ENVIRONMENTAL SERVICES
CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

C739 8462497 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTON

SAMPLE 91119-C11563 SOIL/EXCAVATION #3/WEST BASE/WIS-PAK, WATERTOWN/PSZ0458
DATE COLLECTED 04/29/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

APPENDIX E

OVER-EXCAVATION ANALYSIS RESULTS

CHAIN OF CUSTODY RECORD

PROJ. NO.

PROJECT NAME

SAMPLERS:

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	[illegible]	[illegible]					SAMPLE DESCRIPTION
						1-4	✓	✓					
						1-4	✓	✓					
						1-4	✓	✓					
						1-4	✓						

Relinquished By:	Date / Time	Received By:	Relinquished By:	Date / Time	Received By:
	8/11/0 11:40	KMBoyle			
Relinquished By:	Date / Time	Received By:	Relinquished By:	Date / Time	Received By:

Corporate Office:
24156-58 Haggerty Rd.
Farmington Hill, MI 48335
(313) 478-2700
Fax (313) 478-3819

Laboratory Services:
3150 North Brookfield Rd.
Brookfield, WI 53045
(414) 783-6111
Fax (414) 783-5752

SWANSON ENVIRONMENTAL INC.

Remarks:

Report To:

Distribution: White-Accompanies Shipment, Yellow-Laboratory File, Pink-Field File

SWANSON ENVIRONMENTAL INC.

3150 North Brookfield Road
Brookfield, Wisconsin 53045
telephone (414) 783-6111
facsimile (414) 783-5752

ANALYTICAL REPORT

AIHA Accreditation #352
WDNR Certification #268181760

REPORT NUMBER: 38366
AMENDED 10/01/91

Sigma Environmental
3555 South Howell Avenue
Oak Creek, WI 53154

Attn: Mr. Steve Benton

DATE: September 4, 1991
PURCHASE ORDER: 01203-R
SEI JOB NO: WL3052
DATE COLLECTED: 08/16/91
DATE RECEIVED: 08/16/91

Soil Samples (Wis Pak Watertown)

Units: mg/kg dry.

Parameter	SEI ID / Sample ID	3052-1 Dispenser Island	3052-2 East Wall	3052-3 West Wall	3052-4 Landfill Confirmation
Benzene		<0.05	<0.05	<0.05	--
Ethylbenzene		<0.05	<0.05	<0.05	--
Methyl t-butyl ether		<0.05	<0.05	<0.05	--
Toluene		<0.05	<0.05	<0.05	--
1,2,4-Trimethylbenzene		<0.05	<0.05	<0.05	--
1,3,5-Trimethylbenzene		<0.05	<0.05	<0.05	--
Xylenes		<0.05	<0.05	<0.05	--
Total Petroleum Hydrocarbons* (DRO)		<5	<5	<5	100

* Concentration based on a diesel fuel standard using the Modified State of California Method.

Reviewed & Approved by:

Rosemary L. Dineen
Laboratory Director

RECEIVED
OCT - 3

ORIGINAL

APPENDIX F

TANK INVENTORY FORMS
AND
UST CERTIFICATE OF DESTRUCTION

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. **A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner.**

This registration applies to a tank that is (check one):
1. ☐ In Use
2. ☐ Abandoned With Product
3. ☐ Abandoned No Product (empty) or With Water
4. ☒ Abandoned - Tank Removed
6. ☐ Abandoned - Filled With Inert Material
7. ☐ Out of Service
8. ☐ Changed Ownership (Indicate new owner in section A. 4. below)

Fire Department Providing Fire Coverage Where Tank Is Located Is In:
☒ City ☐ Village ☐ Town of WATERTOWN

A. IDENTIFICATION: (Please Print)

1. Installation Name: WIS-PAC. Co.
Installation Street Address: 860 West St
☒ City ☐ Village ☐ Town of: WATERTOWN
State: WI | Zip Code: 53094 | County: Dodge

2. Mailing Name if Different Than #1
Mailing Address if Different Than #1
☐ City ☐ Village ☐ Town of:
State | Zip Code | County

3. Name of Contact Person: Karl Wolf
Street Address
☐ City ☐ Town ☐ Village of:
State | Zip Code
County | Telephone No. (include area code): 414 262 6300

4. Owner Name if Different Than #3
Street Address
☐ City ☐ Town ☐ Village of:
State | Zip Code
County | Telephone No. (include area code)

5. Tank Age (date installed, if known: or years old): 12 yrs old
6. Tank Capacity (gallons): 1000
7. Tank Manufacturer's Name (if known)

B. TYPE OF USER (check one):

1. ☐ Gas Station
2. ☐ Bulk Storage
3. ☐ Utility
4. ☐ Mercantile
5. ☒ Industrial
6. ☐ Government
7. ☐ School
8. ☐ Residential
9. ☐ Agricultural
10. ☐ Other (specify): _____

C. TANK CONSTRUCTION:

1. ☒ Bare Steel
2. ☐ Cathodically Protected and Coated Steel (a. ☐ Sacrificial Anodes or b. ☐ Impressed Current)
3. ☐ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify): _____
6. ☐ Relined
7. ☐ Steel - Fiberglass Reinforced Plastic Composite
9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:
Is Tank Double Walled? ☐ Yes ☒ No

Overfill Protection Provided? ☐ Yes ☒ No If yes, identify type:
Spill Containment? ☐ Yes ☒ No

Tank leak detection method:
1. ☐ Automatic tank gauging
2. ☐ Vapor monitoring
3. ☐ Groundwater monitoring
4. ☐ Inventory control and tightness testing
5. ☐ Interstitial monitoring
6. ☐ Not required at present

D. PIPING CONSTRUCTION

1. ☒ Bare Steel
2. ☐ Cathodically Protected and Coated or Wrapped Steel (a. ☐ Sacrificial Anodes or b. ☐ Impressed Current)
3. ☐ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify): _____
9. ☐ Unknown

Piping System Type:
1. ☐ Pressurized piping with: a. ☐ auto shutoff; b. ☐ alarm; or c. ☐ flow restrictor
2. ☐ Suction piping with check valve at tank
3. ☐ Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank:
1. ☐ Vapor monitoring
2. ☐ Interstitial monitoring
3. ☐ Groundwater monitoring
4. ☐ Tightness testing
5. ☐ Line Leak Detector
6. ☐ Not Required

Approval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other:
Double Walled: ☐ Yes ☒ No

E. TANK CONTENTS

1. ☐ Diesel
2. ☐ Leaded
3. ☐ Unleaded
4. ☐ Fuel Oil
5. ☐ Gasohol
6. ☐ Other
7. ☐ Empty
8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown
10. ☐ Premix
11. ☒ Waste Oil
12. ☐ Propane
13. ☐ Chemical * _____ _____ _____
14. ☐ Kerosene
15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Abandoned, Give Date (mo/day/yr): 4 / 25 / 91
Has a site assessment been completed? (see reverse side for details) ☒ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department
2. ☐ DILHR
3. ☐ Other (identify) _____

Signature of Person Completing Report: Steve Benton
Date Signed: 5-3-91

SBD-7437 (R. 09/89)

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. **A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner.**

This registration applies to a tank that is (check one):
1. ☐ In Use
2. ☐ Abandoned With Product
3. ☐ Abandoned No Product (empty) or With Water
4. ☒ Abandoned - Tank Removed
6. ☐ Abandoned - Filled With Inert Material
7. ☐ Out of Service
8. ☐ Changed Ownership (Indicate new owner in section A. 4. below)

Fire Department Providing Fire Coverage Where Tank Is Located Is In:
☒ City ☐ Village ☐ Town of
WATERTOWN

A. IDENTIFICATION: (Please Print)

1. Installation Name: WIS-PAC Co.
Installation Street Address: 860 West Street
☒ City ☐ Village ☐ Town of: WATERTOWN
State: WI | Zip Code: 53094 | County: Dodge

2. Mailing Name if Different Than #1
Mailing Address if Different Than #1
☐ City ☐ Village ☐ Town of:
State | Zip Code | County

3. Name of Contact Person: Karl Wolf
Street Address
☐ City ☐ Town ☐ Village of:
State | Zip Code
County | Telephone No. (include area code): 414 232 6300

4. Owner Name if Different Than #3
Street Address
☐ City ☐ Town ☐ Village of:
State | Zip Code
County | Telephone No. (include area code)

5. Tank Age (date installed, if known; or years old): 12 yrs old
6. Tank Capacity (gallons): 20,000
7. Tank Manufacturer's Name (if known)

B. TYPE OF USER (check one):

1. ☐ Gas Station
2. ☐ Bulk Storage
3. ☐ Utility
4. ☐ Mercantile
5. ☒ Industrial
6. ☐ Government
7. ☐ School
8. ☐ Residential
9. ☐ Agricultural
10. ☐ Other (specify): _____

C. TANK CONSTRUCTION:

1. ☒ Bare Steel
2. ☐ Cathodically Protected and Coated Steel (a. ☐ Sacrificial Anodes or b. ☐ Impressed Current)
3. ☐ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify): _____
6. ☐ Relined
7. ☐ Steel - Fiberglass Reinforced Plastic Composite
9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:
Is Tank Double Walled? ☐ Yes ☒ No
Overfill Protection Provided? ☐ Yes ☒ No If yes, identify type:
Spill Containment? ☐ Yes ☒ No
Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring 6. ☐ Not required at present

D. PIPING CONSTRUCTION

1. ☒ Bare Steel
2. ☐ Cathodically Protected and Coated or Wrapped Steel (a. ☐ Sacrificial Anodes or b. ☐ Impressed Current)
3. ☐ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify): _____
9. ☐ Unknown

Piping System Type: 1. ☐ Pressurized piping with: a. ☐ auto shutoff; b. ☐ alarm; or c. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank 3. ☒ Suction piping with check valve at pump and insoectable

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring 3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☐ Not Required

Approval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other:
Double Walled: ☐ Yes ☒ No

E. TANK CONTENTS

1. ☒ Diesel
2. ☐ Leaded
3. ☐ Unleaded
4. ☐ Fuel Oil
5. ☐ Gasohol
6. ☐ Other
7. ☐ Empty
8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown
10. ☐ Premix
11. ☐ Waste Oil
12. ☐ Propane
13. ☐ Chemical * _____ _____ _____
14. ☐ Kerosene
15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Abandoned, Give Date (mo/day/yr): 4-26-91
Has a site assessment been completed? (see reverse side for details) ☒ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department 2. ☐ DILHR 3. ☐ Other (identify) _____

Signature of Person Completing Report: Steve Benton
Date Signed: 5-3-91

SBD-7437 (R. 09/89)

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
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P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

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This registration applies to a tank that is (check one):
1. ☐ In Use
2. ☐ Abandoned With Product
3. ☐ Abandoned No Product (empty) or With Water
4. ☐ Abandoned - Tank Removed
6. ☐ Abandoned - Filled With Inert Material
7. ☐ Out of Service
8. ☐ Changed Ownership (Indicate new owner in section A. 4. below)

Fire Department Providing Fire Coverage Where Tank Is Located Is In:
☐ City ☐ Village ☐ Town of

A. IDENTIFICATION: (Please Print)

1. Installation Name: WIS - PAK Co
2. Mailing Name if Different Than #1

Installation Street Address: 760 West Street
Mailing Address if Different Than #1

☒ City WATER TOWN ☐ Village ☐ Town of:
☐ City ☐ Village ☐ Town of:

State: WI | Zip Code: 53094 | County: Dodge
State | Zip Code | County

3. Name of Contact Person: Karl Wolf
4. Owner Name if Different Than #3

Street Address
Street Address

☐ City ☐ Town ☐ Village of: | State | Zip Code
☐ City ☐ Town ☐ Village of: | State | Zip Code

County | Telephone No. (include area code): (414) 262-2300
County | Telephone No. (include area code)

5. Tank Age (date installed, if known: or years old): 12 yrs old
6. Tank Capacity (gallons): 150
7. Tank Manufacturer's Name (if known)

B. TYPE OF USER (check one):

1. ☐ Gas Station
2. ☐ Bulk Storage
3. ☐ Utility
4. ☐ Mercantile
5. ☒ Industrial
6. ☐ Government
7. ☐ School
8. ☐ Residential
9. ☐ Agricultural
10. ☐ Other (specify): _____

C. TANK CONSTRUCTION:

1. ☒ Bare Steel
2. ☐ Cathodically Protected and Coated Steel (a. ☐ Sacrificial Anodes or b. ☐ Impressed Current)
3. ☐ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify): _____
6. ☐ Relined
7. ☐ Steel - Fiberglass Reinforced Plastic Composite
9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:
Is Tank Double Walled? ☐ Yes ☒ No

Overfill Protection Provided? ☐ Yes ☐ No If yes, identify type:
Spill Containment? ☐ Yes ☒ No

Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring 6. ☐ Not required at present

D. PIPING CONSTRUCTION

1. ☒ Bare Steel 2. ☐ Cathodically Protected and Coated or Wrapped Steel (a. ☐ Sacrificial Anodes or b. ☐ Impressed Current) 3. ☐ Coated Steel
4. ☐ Fiberglass 5. ☐ Other (specify): _____ 9. ☐ Unknown

Piping System Type: 1. ☐ Pressurized piping with: a. ☐ auto shutoff; b. ☐ alarm; or c. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank 3. ☐ Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring 3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☐ Not Required

Approval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other:
Double Walled: ☐ Yes ☐ No

E. TANK CONTENTS

1. ☒ Diesel
2. ☐ Leaded
3. ☐ Unleaded
4. ☐ Fuel Oil
5. ☐ Gasohol
6. ☐ Other
7. ☐ Empty
8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown
10. ☐ Premix
11. ☐ Waste Oil
12. ☐ Propane
13. ☐ Chemical * _____ _____ _____
14. ☐ Kerosene
15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Abandoned, Give Date (mo/day/yr): 4-29-91
Has a site assessment been completed? (see reverse side for details) ☒ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department 2. ☐ DILHR 3. ☐ Other (identify) _____

Signature of Person Completing Report: Steve Benton
Date Signed: 4-29-91

SBD-7437 (R. 09/89)

SIGMA ENVIRONMENTAL SERVICES, INC.
UNDERGROUND STORAGE TANK
CERTIFICATE OF DESTRUCTION

This form is to be completed following the acceptance and/or destruction of all underground storage tanks. Please complete this form and return it to:

Sigma Environmental Services, Inc.
9555 South Howell Avenue
Oak Creek, Wisconsin 53154

IDENTIFICATION (Please Print)

1. Wis-Pak Inc.
Underground Storage Tank Generator Name

860 West Street
Street Address

Watertown WI
City / Village / Town of

State / Zip Code 53094 / County Jefferson

Underground Storage Tank Description
1 - 1000 gal UST (waste oil)
1 - 20,000 gal UST (Diesel)
1 - 150 gal UST (Diesel)
- STEEL TANKS
-
Signature / Date 11-13-91

2. OSI Environmental Inc.
Underground Storage Tank Transporter Name

P.O. Box 68
Street Address

Pleasant Prairie
City / Village / Town of

State WI / Zip Code 53158-0068 / County Racine

Underground Storage Tank Description
1 - 1000 gal UST (waste oil)
1 - 20,000 gal UST (Diesel)
1 - 150 gal UST (Diesel)
X
Signature / Date 11-14-91

3. Racine Recycling
Underground Storage Tank Disposal Facility Name

1339 17th St
Street Address

Racine
City / Village / Town of

State WI / Zip Code / County Racine

Underground Storage Tank Description
Scrap Receipts Enclosed.

Description of Destruction
Dismantled on site by OSI Environmental Inc

I certify that I have received the above listed underground storage tanks and that these tanks will not be reused without the generators consent.

Signature: X _____ Title: _____ Date: _____

RACINE RECYCLING INDUSTRIES

000276 O.S.I. ENVIRONMENTAL #520995

SEQ. NO.	GROSS WT. (LB)	DATE
132651	4780	05/02/91

CODE	MATERIAL	$/UNIT	TARE WT. (LB)	NET WT. (LB)	ADJUSTED NET WT. (LB)	AMOUNT
015	UNPREPARED PLATE & STRUCTURAL	72.00/NT		4780		172.08
				TOTAL	CHECK	$172.08

RACINE RECYCLING INDUSTRIES

000276 O.S.I. ENVIRONMENTAL #520818

SEQ. NO.	GROSS WT. (LB)	DATE
132317A	6040	04/29/91

CODE	MATERIAL	$/UNIT	TARE WT. (LB)	NET WT. (LB)	ADJUSTED NET WT. (LB)	AMOUNT
015	UNPREPARED PLATE & STRUCTURAL	72.00/NT		6040		217.44
				TOTAL	CHECK	$217.44

Wis-Pak Scrap Steel Receipt.

APPENDIX G

APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED SOILS

APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED SOIL

Form 4400-120

This form is required by the Department of Natural Resources for leaking underground storage tank sites to ensure that petroleum contaminated soil is treated or disposed of in compliance with NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Failure to comply with applicable statutes and administrative rules may lead to violations of subchapters III and IV of ch. 144, Wis. Stats. and may result in forfeitures of not less than $10 or more than $25,000 for each violation, pursuant to ss. 144.426(1), 144.74 (1), and 144.99, 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. Department approval of this form is required prior to site remediation, except for soils to be buried in landfills.

DIRECTIONS: 1) Complete part I. 2) Select the treatment option in part II. Pretreatment approval is required for any treatment other than landfill burial. Submit this form to the DNR project manager for approval. 3) If your treatment option is landfill burial, complete part III before submitting the ORIGINAL form to the project manager. 4) If soil will be used as cover at a landfill, first submit this form for approval and then, after part III has been completed, resubmit the ORIGINAL to the project manager.

4.91:2.22

ALL SITES MUST COMPLETE PART I

Part I. Source of Soil

Site/Facility Name: WIS-Pak Inc

Site I.D. # (for DNR use only):

Site Address: 860 West Street

Contact Name: Karl Wolf

City, State, Zip Code: Watertown WI 53094

1/4, 1/4, Section, Township, and Range: SW 1/4 NW 1/4 T 8N R 15E

The information on this form is accurate to the best of my knowledge.
NOTE: Soil generators responsible for waste disposed of in landfills may incur future liability.

Signature of Soil Generator: Karl Wolf/SDB

Telephone Number (include area code): (414) 262-6300

Consulting Firm: Sigma Environmental Services, Inc.

Contact: STEVEN BENTON

Telephone Number: (414) 768-7144

Estimated Volume Contaminated Soil: 228.80 [Tons]/cubic yards (circle one)

Type of Petroleum Contamination (Circle):

Gasoline [Diesel Fuel]/#2 Fuel Oil

Other _____

Soil Type (USCS)

___ sand (SP, SW)
___ silt/clayey sands (SM, SC)
___ silt (ML, MH, OL)
X clay (CL, CH, OH)
___ gravel (GC, GM, GP, GW)
___ peat (PT)

Distance to Nearest Residence/Business: 1/4 MILE

Contaminant concentration:

One screened sample for each 15 yds³ and one laboratory analysis for each 300 yds³ of contaminated soil when the field instrument *registers contamination* OR one laboratory analysis for each 100 yds³ when the field instrument *does not register contamination* on soil shown to be contaminated during the site investigation/excavation or stockpiling. PLEASE ATTACH A TABLE LISTING RESULTS OF BOTH FIELD SCREENING AND LAB ANALYSES, AND INCLUDE SUPPORTING LAB REPORTS, IN ADDITION TO THE TPH AND BENZENE INFORMATION REQUESTED BELOW. NOTE: DILER requires a minimum of 3 laboratory samples on excavated soil for PECFA claims.

Total Benzene in soil to be remediated (attach calculations): 1.83×10^{-3} lbs

Total Petroleum Hydrocarbons (TPH) in soil to be remediated (attach calculations): 64.06 lbs

Total TPH as DRO

ATTACH EMISSIONS CALCULATIONS

(c/1,000,000) x (2,500 lbs/c) x a = benzene emission in lbs, where c = benzene concentration of soil mixture in ppm or mg/kg dry weight basis, and a = amount of contaminated soil in yds³. NOTE: This calculation can also be used to calculate TPH emissions by substituting TPH concentration (ppm or mg/kg) for "c". It may also be used to calculate VOCs.

COMPLETE ONLY THOSE SECTIONS OF PART II THAT PERTAIN TO YOUR SITE

Part II Proposed method of treatment

A. SOIL VENTING/AERATION EXCAVATION

Note: This option may require an air pollution control permit. An activated carbon unit or similar treatment system to strip VOCs from the blower discharge will be required if emissions exceed limits established by Air Management. System design and monitoring information must be included.

Contact responsible for system maintenance.

Telephone Number (include area code) Anticipated start date

Total VOC discharge rate from Pilot testing or calculations _____ lbs/hr at _____ scfm

Benzene Discharge Rate from Pilot testing or calculations _____ lbs/hr at _____ scfm _____ Expected Project Total

B. ANY METHOD OF REMEDIATION NOT LISTED IN PART II. (NOTE: For thermal treatment, use Form 4400-149.)

Attach narrative and drawing(s) to describe the remediation method to be used. A final report is required. At a minimum, the information submitted should include the following applicable items:

a. proposed treatment method
b. location/size of remediation site
c. distance to nearest residence/business
d. field sampling records
e. protective covering and curing techniques
f. volume estimate and soil thickness needing remediation
g. method of turning/mixing soil
h. highest measured hourly/daily VOC emissions
i. highest measured daily/hourly benzene emissions
j. anticipated start and completion dates
k. proposed ventilation method of contaminant control
m. project manager person
n. final destination of soil

LEAVE BLANK - DEPARTMENT OF NATURAL RESOURCES USE ONLY

Application Concurrence

Air Management _____ Date _____

Project Manager _____ Date _____

Comments:

C. DISPOSAL OF CONTAMINATED SOILS AT A SANITARY LANDFILL NR 700

NOTE: Contaminant concentrations must meet Solid Waste guidelines and analytical results must be submitted within 30 days of disposal.

PLEASE COMPLETE PART III BELOW AFTER LANDFILL BURIAL IS COMPLETED.

THIS SECTION IS TO BE COMPLETED BY THE DISPOSAL FACILITY ACCEPTING THE CONTAMINATED SOIL

Part III

Transporter Name SIGMA Transporter License Number N/A

Name of landfill PARKVIEW License No. 3108

Actual Volume of soil landfilled 228.80 (cubic yd or ton) ___ cover soil ✓ buried

Date received at landfill 8-15-91 Accumulated Benzene emissions to date 0

Signature of landfill facility representative X Robert Buchanan

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

05/14/91 LABORATORY REPORT

C739 8462496 W35

SIGMA ENVIRONMENTAL SERVICES, INC.
9555 S. HOWELL AVE.
OAK CREEK ,WI 53154
ATTN: STEVE BENTEN

SAMPLE 91119-C11761 SOIL/EXCAVATION #2/WIS PAK WATERTOWN/PSZ0458
DATE COLLECTED 04/25/91 DATE RECEIVED 04/29/91

TEST NAME	RESULT	UNITS	EP RESULT	TCLP RESULT	LIMIT
BENZENE	0.004	PPM			
TOLUENE	<0.002	PPM			
XYLENE	0.002	PPM			
TOTAL PETROLEUM HYDROCARBONS	140	PPM			
	DIESEL				
ETHYLBENZENE	<0.002	PPM			
LEAD - TOTAL	5.2	PPM		<0.20	5.0
FREE LIQUIDS	0	%			
FLASH POINT (OPEN CUP)	>210	OC/DEG F			
PH (UNITS)	7.4				2.0-12.5
	PH MEASURED AS SOLID IN WATER.				
TOTAL SOLIDS	82	%			
TCLP METALS EXTRACT				05/02/91 PPM	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

SWANSON ENVIRONMENTAL INC.

3150 North Brookfield Road
Brookfield, Wisconsin 53045
telephone (414) 783-6111
facsimile (414) 783-5752

ANALYTICAL REPORT

AIHA Accreditation #352
WDNR Certification #268181760

REPORT NUMBER: B6365
AMENDED 10/01/91

Sigma Environmental
9555 South Howell Avenue
Oak Creek, WI 53154

Attn: Mr. Steve Benton

DATE: September 4, 1991
PURCHASE ORDER: 01203-R
SEI JOB NO: WL8052
DATE COLLECTED: 08/16/91
DATE RECEIVED: 08/16/91

Soil Samples (Wis Pak Watertown)

Units: mg/kg (ppm)

Parameter	SEI ID / Sample ID	8052-1 Dispenser Island	8052-2 East Wall	8052-3 West Wall	8052-4 Landfill Confirmation
Benzene		<0.05	<0.05	<0.05	--
Ethylbenzene		<0.05	<0.05	<0.05	--
Methyl t-butyl ether		<0.05	<0.05	<0.05	--
Toluene		<0.05	<0.05	<0.05	--
1,2,4-Trimethylbenzene		<0.05	<0.05	<0.05	--
1,3,5-Trimethylbenzene		<0.05	<0.05	<0.05	--
Xylenes		<0.05	<0.05	<0.05	--
Total Petroleum Hydrocarbons* (DRO)		<5	<5	<5	100

* Concentration based on a diesel fuel standard using the Modified State of California Method.

Reviewed & Approved by:

Rosemary L. Dineen
Laboratory Director

ORIGINAL

LANDFILLED SOILS CONFIRMATION DATA
WIS-PAK, INC.

Load #	Quantity (tons)	PID
1	13.57	18.4
2	14.02	22.9
3	14.32	33.2
4	15.31	54.7
5	15.40	67.4*
6	16.39	28.6
7	17.43	37.0
8	17.96	41.4
9	18.42	15.4
10	19.51	27.1
11	20.21	51.8
12	23.07	22.7
13	23.19	13.4
Total	228.80	

* Sample analyzed for Diesel Range Organics (DRO) - 100 ppm DRO

EMISSION CALCULATIONS

Benzene $\frac{.004}{1{,}000{,}000}$ X 2,000 X 228.80 = 1.83×10^{-3} lbs.

TPH $\frac{140}{1{,}000{,}000}$ X 2,000 X 228.80 = 64.06 lbs.