

BRTS #  
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HAZARDOUS WASTE MANAGEMENT

A REPORT OF AN  
UNDERGROUND STORAGE TANK  
SOIL ASSESSMENT  
AT  
FINDLEY ADHESIVES  
MILWAUKEE, WISCONSIN

PREPARED FOR:  
MR. MIKE GUMPERT  
FINDLEY ADHESIVES  
2930 WEST CENTER STREET  
MILWAUKEE, WISCONSIN 53210

PREPARED BY:  
CRAIG A. VARLAND  
CBC ENVIRONMENTAL SERVICES  
140 E. RYAN ROAD  
OAK CREEK, WISCONSIN 53154

PROJECT REFERENCE #TCSOCR0301

JANUARY 14, 1991

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A. Laboratory Reports

I. INTRODUCTION

Findley Adhesives retained CBC Environmental Services of Oak Creek, Wisconsin, to perform an Underground Storage Tank closure and soil assessment. This report details the work conducted at the Findley Adhesives Facility located at 2930 West Center Street in Milwaukee, Wisconsin.

II. SITE LOCATION AND DESCRIPTION

The subject property is located in the Southeast 1/4 of the Northeast Quarter of Section 13, Township 7 North, Range 21 East, Milwaukee County, Wisconsin. Specifically the facility is located at the Northeast corner of North 30th Street and West Center Street in Milwaukee, Wisconsin. (See Figure 1.)

The southern half of the subject property is occupied by a two-story structure. The northern section is currently a grass covered lot. The property is bordered by North 30th Street on the west, an alley on the east and West Center Street to the south.

III. UNDERGROUND TANK REMOVAL

On October 29, 1990, CBC supervised the removal of the following underground tank system.

| <u>Tank I.D.</u> | <u>Tank Volume<br/>Gallons</u> | <u>Substance Stored</u> |
|------------------|--------------------------------|-------------------------|
| #1               | 8,000                          | Mineral Oil             |

Excavation. Petroleum Equipment, Inc. of Milwaukee, Wisconsin, was the excavator contracted to remove and dispose of the underground storage tank. Tank overburden was excavated and placed adjacent to the excavation. The tank was then removed intact and visually inspected for exterior



Figure 1

**SITE LOCATION MAP**

Findley Adhesives  
Milwaukee, Wisconsin



ADAPTED FROM U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE, MILWAUKEE

corrosion, pitting, or holes. The tank and lines were found to be in good condition. The vent and product lines were removed. The tank pit was then backfilled with the stockpiled backfill.

Soil Assessment. During the tank removal, excavated soils were field screened with a Photovac<sub>(TM)</sub> microtip Photoionization Detection (PID) Meter. The PID employed an 11.7 eV (electron volt) lamp and was field calibrated with an isobutylene standard.

Ten (10) soil samples were collected from the tank excavation base, walls, piping and dispenser area. (See Figure 2.) Two (2) samples were collected at each sampling point. One (1) sample was containerized into a glass jar, sealed with a Teflon-lined cap and placed into a cooler. The other sample was also containerized into a glass jar, allowed to warm-up for a period of thirty minutes and field screened by means of head space analysis for volatile organic compounds utilizing the Photovac<sub>(TM)</sub> Microtip PID.

Soil Analysis. A total of eight (8) soil samples from the tank excavation and piping were accompanied with a Chain-of-Custody Document and transported to the CBC Environmental Laboratory for analysis of Total Petroleum Hydrocarbons (TPH). Table 1 presents the soil quality results. The laboratory reports are presented as Appendix A.

#### IV. SITE GEOLOGY AND HYDROGEOLOGY

Topography and Drainage. The property is slightly elevated from North 30th Street and Center Street and is principally flat with surficial drainage flowing west toward North 30th Street. Regional drainage is east toward Lake Michigan.

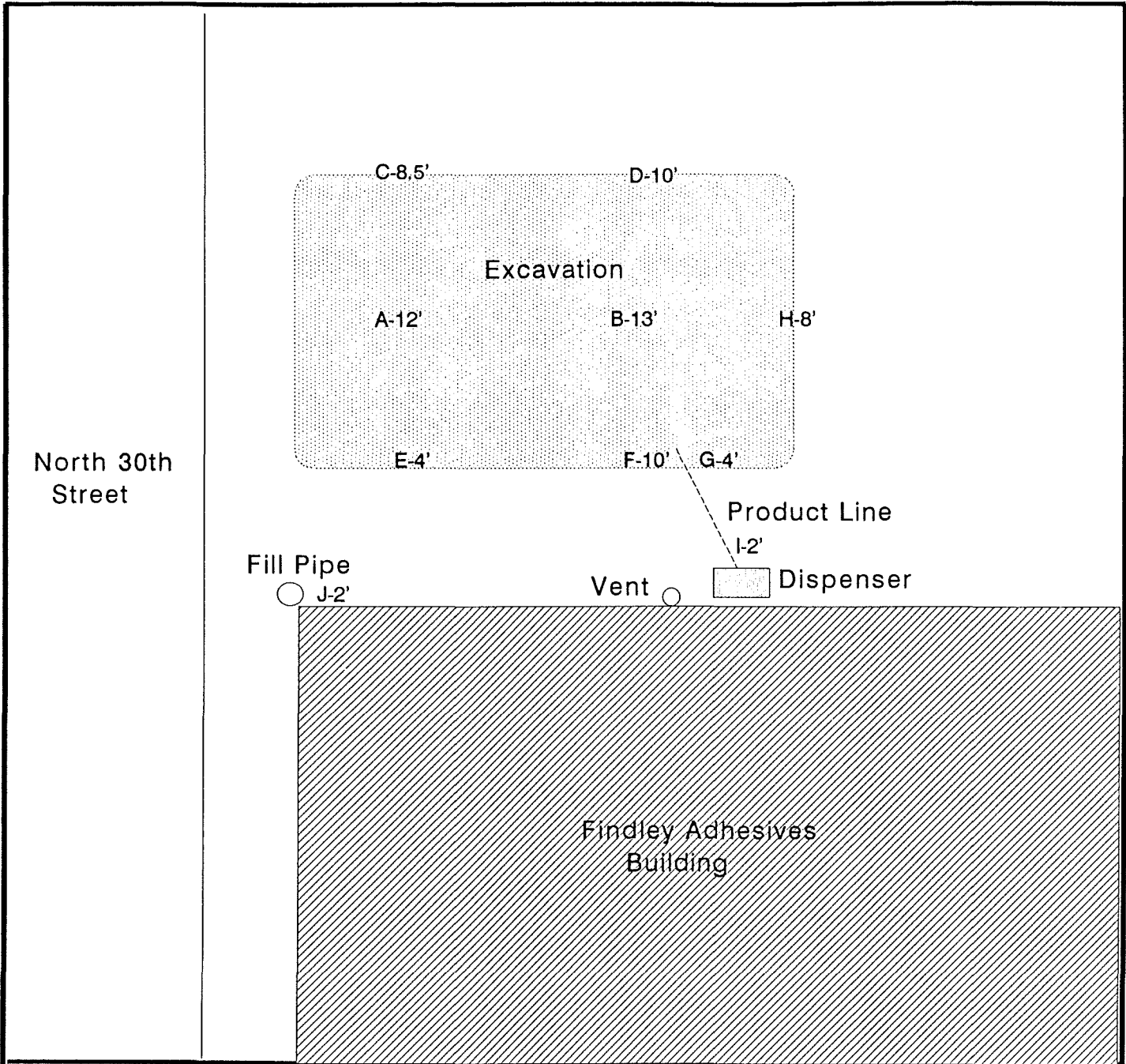
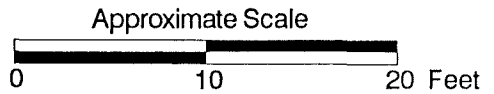


FIGURE 2



SAMPLE LOCATION MAP

LEGEND

Findley Adhesives  
Milwaukee, Wisconsin



A-J Sample Locations

TABLE 1

**SOIL QUALITY RESULTS**

| <u>Sample Location</u> | <u>Depth</u> | <u>PID Result (ppm)</u> | <u>Laboratory Results TPH (ppm)</u> |
|------------------------|--------------|-------------------------|-------------------------------------|
| A                      | 12'          | 2.0                     | < 4.0                               |
| B                      | 13'          | 1.1                     | < 4.0                               |
| C                      | 8.5'         | 1.3                     | N/A                                 |
| D                      | 10'          | 2.4                     | N/A                                 |
| E                      | 4'           | 2.8                     | < 4.0                               |
| F                      | 10'          | 2.6                     | < 4.0                               |
| G                      | 4'           | 4.3                     | < 4.0                               |
| H                      | 8'           | 4.5                     | < 4.0                               |
| I                      | 2'           | 3.9                     | < 4.0                               |
| J                      | 8'           | 4.8                     | < 4.0                               |

N/A -Not Analyzed

Geology. The Regional Geology of the area is dominated by Pleistocene-age deposits of the Wisconsin stage of continental glaciation. Locally, the deposits are ground and end moraines comprised of reddish-brown clayey tills.

Soils in the excavation walls were consistent with the regional geology.

Hydrogeology. The water resources in the Milwaukee area consist of Lake Michigan, several small streams, and groundwater. The majority of water used in the Milwaukee Metropolitan Area is obtained from Lake Michigan.

The principal aquifers for groundwater in the Milwaukee area are the Pleistocene sands and gravels, Niagaran dolomite, and the deeper sandstones. The sandstone aquifer is separated from the shallower Pleistocene drift and Niagaran dolomite by the relatively impermeable Maquoketa shale.

V. SOIL QUALITY

Soil Quality Results. A total of ten (10) soil samples were collected from the tank excavation. Eight (8) samples were submitted to the CBC Environmental Laboratory for analysis of Total Petroleum Hydrocarbons (TPH).

Laboratory results revealed no elevated concentrations of TPH in the samples submitted.

VI. REGULATIONS

The Wisconsin Department of Natural Resources (WDNR) has not established Preventative Action Limits or Enforcement Standards for substances detected in soils. The WDNR policy requires a subsurface investigation to determine the extent and character of the contamination and implement a remedial action program if the levels of Total Petroleum Hydrocarbons in soils is above ten (10) parts per million (ppm). The 10 ppm level has not been exceeded in any of the samples analyzed.

VII. CONCLUSIONS

The Underground Storage Tank closure and soils assessment at 2930 West Center Street in Milwaukee, Wisconsin, is completed. The following conclusions are made based on the preliminary study:

1. The site geology consists of reddish-brown clayey soils.
2. Conformational analysis of soil samples collected at the site did not detect any significant levels of the compounds analyzed (Total Petroleum Hydrocarbons).



#### VIII. 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. CBC Environmental Services has no control over such testing and analysis and therefore, disclaims any responsibility for any errors and omissions arising therefrom.

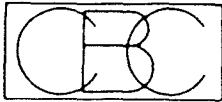
A subsurface exploration was performed and presented in this report. However, subsurface exploration cannot reveal totally what is below the surface. Depending upon the sampling method

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 Findley Adhesives. Reproduction or distribution of this report should not be performed without written consent of Findley Adhesives and CBC.

**APPENDIX A**  
**LABORATORY REPORTS**



# ENVIRONMENTAL SERVICES

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

11/05/90

LABORATORY REPORT

PAGE 1

C739 8456767 W61

CBC REMEDIAL SERVICES INC.  
140 E. RYAN ROAD  
OAK CREEK, WI 53154  
ATTN: CRAIG VARLAND

TCSOCR0301

SAMPLE 90302-C11519 SOIL/A/12'/PID=2.0/FINDLEY ADHESIVES  
DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| 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.

IL EPA CERTIFICATION # 100243; AIHA ACCREDITED.

APPROVAL WBS

FAX #414-764-0486

WI DNR LAB CERTIFICATION #241283020  
CLIENT SERVICES DIRECT LINE 414-768-7460

1-800-365-3840



# ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION

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

11/05/90

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CBC REMEDIAL SERVICES INC.  
140 E. RYAN ROAD  
OAK CREEK ,WI 53154  
ATTN: CRAIG VARLAND

TCSOCR0301

SAMPLE 90302-C11520 SOIL/B/13'/PID=1.1/FINDLEY ADHESIVES  
DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| TEST NAME                    | RESULT | UNITS |
|------------------------------|--------|-------|
| TOTAL PETROLEUM HYDROCARBONS | <4.0   | PPM   |

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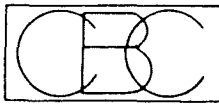
APPROVAL WRS

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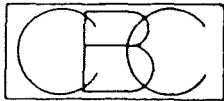
SAMPLE 90302-C11521 SOIL/E/4'/PID=2.8/FINDLEY ADHESIVES  
DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| TEST NAME                    | RESULT | UNITS |
|------------------------------|--------|-------|
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OAK CREEK ,WI 53154  
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SAMPLE 90302-C11522 SOIL/F/10'/PID=2.6/FINDLEY ADHESIVES  
DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| TEST NAME                    | RESULT | UNITS |
|------------------------------|--------|-------|
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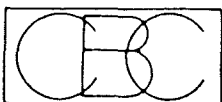
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CBC REMEDIAL SERVICES INC.  
140 E. RYAN ROAD  
OAK CREEK ,WI 53154  
ATTN: CRAIG VARLAND

TCSOCR0301

SAMPLE 90302-C11523 SOIL/G/4'/PID=4.3/FINDLEY ADHESIVES  
DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| TEST NAME                    | RESULT | UNITS |
|------------------------------|--------|-------|
| TOTAL PETROLEUM HYDROCARBONS | <4.0   | PPM   |

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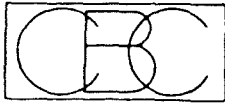
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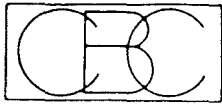
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DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| TEST NAME                    | RESULT | UNITS |
|------------------------------|--------|-------|
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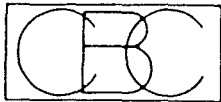
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DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| TEST NAME                    | RESULT | UNITS |
|------------------------------|--------|-------|
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TCSOCR0301

SAMPLE # 90302-C11527 SOIL/J/2'/PID=4.8/FINDLEY ADHESIVES  
DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| TEST NAME                    | RESULT | UNITS |
|------------------------------|--------|-------|
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APPROVAL WPS

**UNDERGROUND  
PETROLEUM PRODUCT  
TANK INVENTORY**

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

**For Office Use Only:**  
Tank ID #

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):                  |   |  | Fire Department Providing Fire Coverage<br>Where Tank Is Located Is In:                                    |                  |
| 1. <input type="checkbox"/> In Use  | 4. <input checked="" type="checkbox"/> Abandoned - Tank Removed       | 8. <input type="checkbox"/> Changed Ownership  | <input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of |                  |
| 2. <input type="checkbox"/> Abandoned With Product                        | 6. <input type="checkbox"/> Abandoned - Filled With<br>Inert Material | (Indicate new owner<br>in section A. 4. below) |  | <i>Milwaukee</i> |
| 3. <input type="checkbox"/> Abandoned No Product (empty)<br>or With Water | 7. <input type="checkbox"/> Out of Service                            |  |  |                  |

**A. IDENTIFICATION: (Please Print)**

|  |                                   |  |  |   |        |
|--|-----------------------------------|--|--|---|--------|
| 1. Installation Name<br><i>Finley Adhesives</i>  |                                   |  | 2. Mailing Name if Different Than #1   |   |        |
| Installation Street Address<br><i>2930 West Center Street</i>  |                                   |  | Mailing Address if Different Than #1   |   |        |
| <input checked="" type="checkbox"/> City <i>Milwaukee</i> <input type="checkbox"/> Village <input type="checkbox"/> Town of: |                                   |  | <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: |   |        |
| State<br><i>Wisconsin</i>  | Zip Code<br><i>53210</i>          | County<br><i>Milwaukee</i>                 | State  | Zip Code  | County |
| 3. Name of Contact Person<br><i>Mike Gumpert</i>   |                                   |  | 4. Owner Name if Different Than #3   |   |        |
| Street Address<br><i>SAME AS ABOVE</i>   |                                   |  | Street Address   |   |        |
| <input type="checkbox"/> City <input type="checkbox"/> Town<br><input type="checkbox"/> Village of:                          |                                   | State                                      | Zip Code   | <input type="checkbox"/> City <input type="checkbox"/> Town<br><input type="checkbox"/> Village of: |        |
| County   | Telephone No. (include area code) |  | County   | Telephone No. (include area code)   |        |
| 5. Tank Age (date installed, if known: or years old)<br><i>1985</i>  |                                   | 6. Tank Capacity (gallons)<br><i>8,000</i> |  | 7. Tank Manufacturer's Name (if known)  |        |

**B. TYPE OF USER (check one):**

|   |   |                                     |   |
|---|---|-------------------------------------|---|
| 1. <input type="checkbox"/> Gas Station           | 2. <input type="checkbox"/> Bulk Storage      | 3. <input type="checkbox"/> Utility | 4. <input type="checkbox"/> Mercantile  |
| 5. <input checked="" type="checkbox"/> Industrial | 6. <input type="checkbox"/> Government        | 7. <input type="checkbox"/> School  | 8. <input type="checkbox"/> Residential |
| 9. <input type="checkbox"/> Agricultural          | 10. <input type="checkbox"/> Other (specify): |                                     |   |

**C. TANK CONSTRUCTION:**

|  |   |
|--|---|
| 1. <input checked="" type="checkbox"/> Bare Steel  | 2. <input type="checkbox"/> Cathodically Protected and Coated Steel (a. <input type="checkbox"/> Sacrificial Anodes or b. <input type="checkbox"/> Impressed Current) |
| 3. <input type="checkbox"/> Coated Steel   | 4. <input type="checkbox"/> Fiberglass  |
| 5. <input type="checkbox"/> Other (specify):   | 6. <input type="checkbox"/> Relined   |
| 7. <input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite  | 8. <input type="checkbox"/> Unknown   |
| Approval: 1. <input type="checkbox"/> Nat'l Std. 2. <input checked="" type="checkbox"/> UL 3. <input type="checkbox"/> Other:  |   |
| Is Tank Double Walled? <input type="checkbox"/> Yes <input type="checkbox"/> No  |   |
| Overfill Protection Provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, identify type:   |   |
| Spill Containment? <input type="checkbox"/> Yes <input type="checkbox"/> No  |   |
| Tank leak detection method: 1. <input type="checkbox"/> Automatic tank gauging 2. <input type="checkbox"/> Vapor monitoring 3. <input type="checkbox"/> Groundwater monitoring         |   |
| 4. <input type="checkbox"/> Inventory control and tightness testing 5. <input type="checkbox"/> Interstitial monitoring 6. <input checked="" type="checkbox"/> Not required at present |   |

**D. PIPING CONSTRUCTION**

|  |  |   |
|--|--|---|
| 1. <input checked="" type="checkbox"/> Bare Steel  | 2. <input type="checkbox"/> Cathodically Protected and Coated or Wrapped Steel (a. <input type="checkbox"/> Sacrificial Anodes or b. <input type="checkbox"/> Impressed Current) | 3. <input type="checkbox"/> Coated Steel                                |
| 4. <input type="checkbox"/> Fiberglass   | 5. <input type="checkbox"/> Other (specify):   | 6. <input type="checkbox"/> Unknown                                     |
| Piping System Type: 1. <input type="checkbox"/> Pressurized piping with: a. <input type="checkbox"/> auto shutoff; b. <input type="checkbox"/> alarm; or c. <input type="checkbox"/> flow restrictor 2. <input type="checkbox"/> Suction piping with check valve at tank |  |   |
| 3. <input checked="" type="checkbox"/> Suction piping with check valve at pump and inspectable   |  |   |
| Piping leak detection method: used if pressurized or check valve at tank: 1. <input type="checkbox"/> Vapor monitoring 2. <input type="checkbox"/> Interstitial monitoring   |  |   |
| 3. <input type="checkbox"/> Groundwater monitoring 4. <input type="checkbox"/> Tightness testing 5. <input type="checkbox"/> Line Leak Detector 6. <input checked="" type="checkbox"/> Not Required  |  |   |
| Approval: 1. <input type="checkbox"/> Nat'l Std. 2. <input checked="" type="checkbox"/> UL 3. <input type="checkbox"/> Other:  |  | Double Walled: <input type="checkbox"/> Yes <input type="checkbox"/> No |

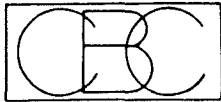
**E. TANK CONTENTS**

|   |  |  |  |
|---|--|--|--|
| 1. <input type="checkbox"/> Diesel      | 2. <input type="checkbox"/> Leaded                             | 3. <input type="checkbox"/> Unleaded   | 4. <input type="checkbox"/> Fuel Oil           |
| 5. <input type="checkbox"/> Gasohol     | 6. <input checked="" type="checkbox"/> Other Mineral Oil, USP. | 7. <input type="checkbox"/> Empty      | 8. <input type="checkbox"/> Sand/Gravel/Slurry |
| 9. <input type="checkbox"/> Unknown     | 10. <input type="checkbox"/> Premix                            | 11. <input type="checkbox"/> Waste Oil | 12. <input type="checkbox"/> Propane           |
| 13. <input type="checkbox"/> Chemical * | 14. <input type="checkbox"/> Kerosene                          | 15. <input type="checkbox"/> 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):<br><i>October, 29, 1990</i> | Has a site assessment been completed? (see reverse side for details)<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|---|---|

|  |                                   |  |
|--|-----------------------------------|--|
| If installation of a new tank is being reported, indicate who performed the installation inspection: |                                   |  |
| 1. <input type="checkbox"/> Fire Department  | 2. <input type="checkbox"/> DILHR | 3. <input type="checkbox"/> Other (identify) _____ |
| Signature of Person Completing Report:<br><i>Thomas C Sweet</i>                                      |                                   | Date Signed:<br><i>January 7, 1991</i>             |



# ENVIRONMENTAL SERVICES

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

January 15, 1991

Project Reference #TCSOCR0301

Findley Adhesives  
2930 West Center Street  
Milwaukee, WI 53210

ATTN: Mr. Mike Gumpert

Dear Mr. Gumpert:

RECEIVED

JAN 16 1991

BUREAU OF SOLID &  
HAZARDOUS WASTE MANAGEMENT

The underground storage tank closure assessment at the above-referenced facility has been completed. Please review the attached assessment report. Upon your approval, please submit one copy of this report to the following regulatory offices:

Bureau of Petroleum Inspection and Fire Protection  
P.O. Box 7969  
Madison, Wisconsin 53707

Bureau of Solid and Hazardous Waste Management  
P.O. Box 7921  
Madison, Wisconsin 53707

In addition, it is the responsibility of Findley Adhesives to report the closure of the underground storage tank to the Safety and Building Division in Madison, Wisconsin, through the use of a "Tank Inventory Form" (SBD-7437), which you will find attached. Please sign the form where indicated and submit.

If there are any questions, please contact our office at (414) 768-7144.

Respectfully Submitted,

CBC ENVIRONMENTAL SERVICES

Craig A. Varland  
Project Supervisor

Thomas C. Sweet  
Vice President/General Manager

CAV:bjg

Enclosure

cc: Mr. Brad Wolbert - Wis. Department of Natural Resources,  
Madison  
Mr. Don Nelson - Dept. of Industry, Labor and Human Relations,  
Madison

WI DNR LAB CERTIFICATION #241283020

10-29-90 SED



**Findley  
Adhesives  
Inc.**

11320 WATERTOWN PLANK ROAD, WAUWATOSA, WISCONSIN 53226-3413 TELEPHONE: 414-774-2250

TELEX FINDLEY ADH MIL 260041  
FAX 414-774-8075  
TOLL FREE: 800-558-4302

*Milwaukee SED*

April 16, 1991

BUREAU OF SOLID & HAZARDOUS WASTE MANAGEMENT  
P.O. BOX 7921  
MADISON, WI. 53707

RECEIVED  
APR 19 1991  
BUREAU OF SOLID &  
HAZARDOUS WASTE MANAGEMENT

To whom it may concern,

Attached is a report of an underground storage tank soil assessment. This tank was at Findley Adhesives, Inc. Milwaukee, Wisconsin. I am submitting this photo-copied assessment for your records.

I understand that this is rather late, but I hope that in submitting this now, we have met your requirements. If you have any questions regarding this assessment, please contact me anytime.

Sincerely,

Michael S. Gumpert  
Mfg. Plant Mgr.

**FINDLEY ADHESIVES, INC.  
ATTN: MIKE GUMPERT  
2930 WEST CENTER STREET  
MILWAUKEE, WI. 53210  
(414) 774-2250 Ex. 407**

*info only 1/19/93*

**A REPORT OF AN  
UNDERGROUND STORAGE TANK  
SOIL ASSESSMENT  
AT  
FINDLEY ADHESIVES  
MILWAUKEE, WISCONSIN**

**PREPARED FOR:  
MR. MIKE GUMPERT  
FINDLEY ADHESIVES  
2930 WEST CENTER STREET  
MILWAUKEE, WISCONSIN 53210**

**PREPARED BY:  
CRAIG A. VARLAND  
CBC ENVIRONMENTAL SERVICES  
140 E. RYAN ROAD  
OAK CREEK, WISCONSIN 53154**

**PROJECT REFERENCE #TCSOCR0301**

**JANUARY 14, 1991**

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APPENDICES

A. Laboratory Reports



I. INTRODUCTION

Findley Adhesives retained CBC Environmental Services of Oak Creek, Wisconsin, to perform an Underground Storage Tank closure and soil assessment. This report details the work conducted at the Findley Adhesives Facility located at 2930 West Center Street in Milwaukee, Wisconsin.

II. SITE LOCATION AND DESCRIPTION

The subject property is located in the Southeast 1/4 of the Northeast Quarter of Section 13, Township 7 North, Range 21 East, Milwaukee County, Wisconsin. Specifically the facility is located at the Northeast corner of North 30th Street and West Center Street in Milwaukee, Wisconsin. (See Figure 1.)

The southern half of the subject property is occupied by a two-story structure. The northern section is currently a grass covered lot. The property is bordered by North 30th Street on the west, an alley on the east and West Center Street to the south.

III. UNDERGROUND TANK REMOVAL

On October 29, 1990, CBC supervised the removal of the following underground tank system.

| <u>Tank I.D.</u> | <u>Tank Volume<br/>Gallons</u> | <u>Substance Stored</u> |
|------------------|--------------------------------|-------------------------|
| #1               | 8,000                          | Mineral Oil             |

Excavation. Petroleum Equipment, Inc. of Milwaukee, Wisconsin, was the excavator contracted to remove and dispose of the underground storage tank. Tank overburden was excavated and placed adjacent to the excavation. The tank was then removed intact and visually inspected for exterior

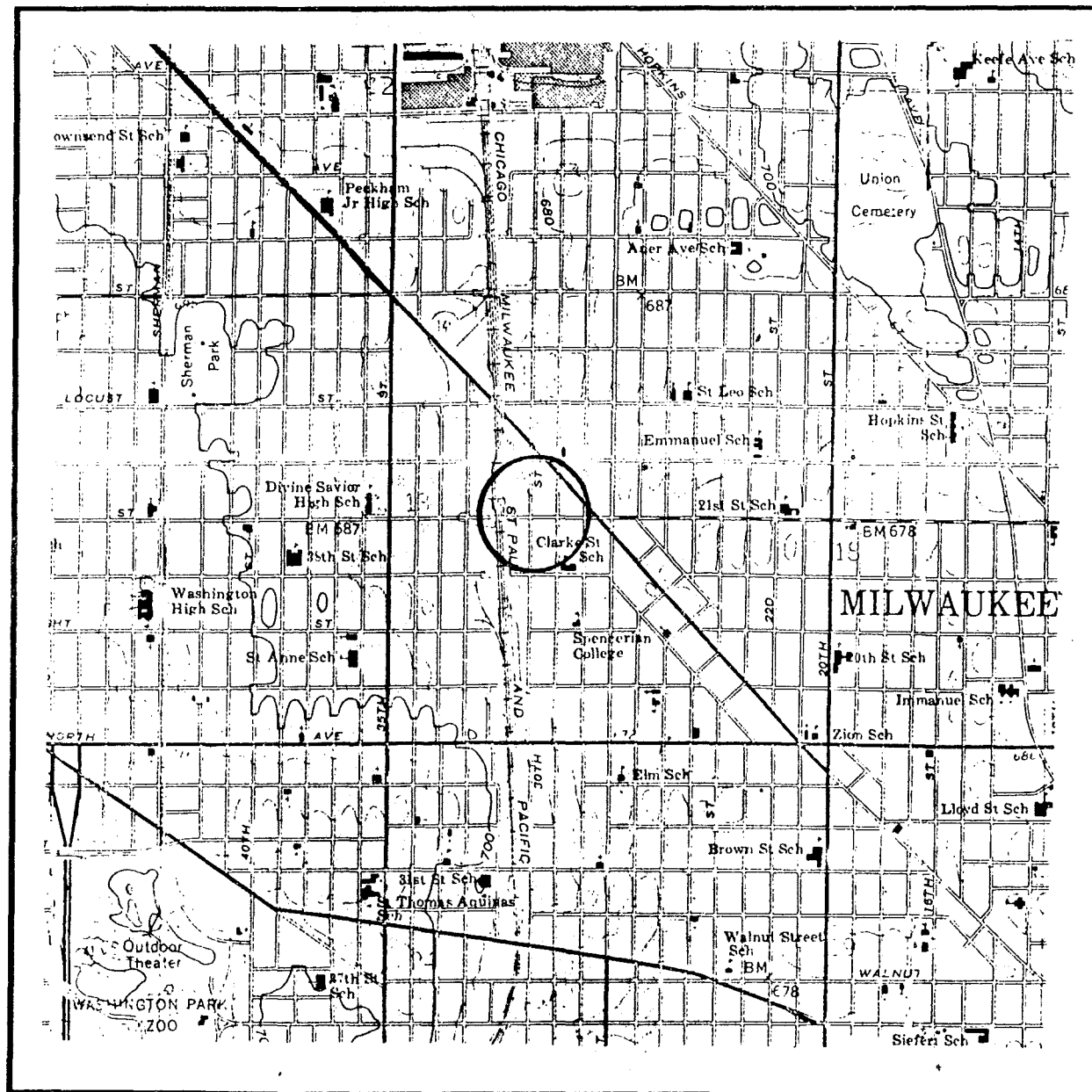


Figure 1  
SITE LOCATION MAP

Findley Adhesives  
 Milwaukee, Wisconsin



ADAPTED FROM U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE, MILWAUKEE

corrosion, pitting, or holes. The tank and lines were found to be in good condition. The vent and product lines were removed. The tank pit was then backfilled with the stockpiled backfill.

Soil Assessment. During the tank removal, excavated soils were field screened with a Photovac<sub>(TM)</sub> microtip Photoionization Detection (PID) Meter. The PID employed an 11.7 eV (electron volt) lamp and was field calibrated with an isobutylene standard.

Ten (10) soil samples were collected from the tank excavation base, walls, piping and dispenser area. (See Figure 2.) Two (2) samples were collected at each sampling point. One (1) sample was containerized into a glass jar, sealed with a Teflon-lined cap and placed into a cooler. The other sample was also containerized into a glass jar, allowed to warm-up for a period of thirty minutes and field screened by means of head space analysis for volatile organic compounds utilizing the Photovac<sub>(TM)</sub> Microtip PID.

Soil Analysis. A total of eight (8) soil samples from the tank excavation and piping were accompanied with a Chain-of-Custody Document and transported to the CBC Environmental Laboratory for analysis of Total Petroleum Hydrocarbons (TPH). Table 1 presents the soil quality results. The laboratory reports are presented as Appendix A.

#### IV. SITE GEOLOGY AND HYDROGEOLOGY

Topography and Drainage. The property is slightly elevated from North 30th Street and Center Street and is principally flat with surficial drainage flowing west toward North 30th Street. Regional drainage is east toward Lake Michigan.

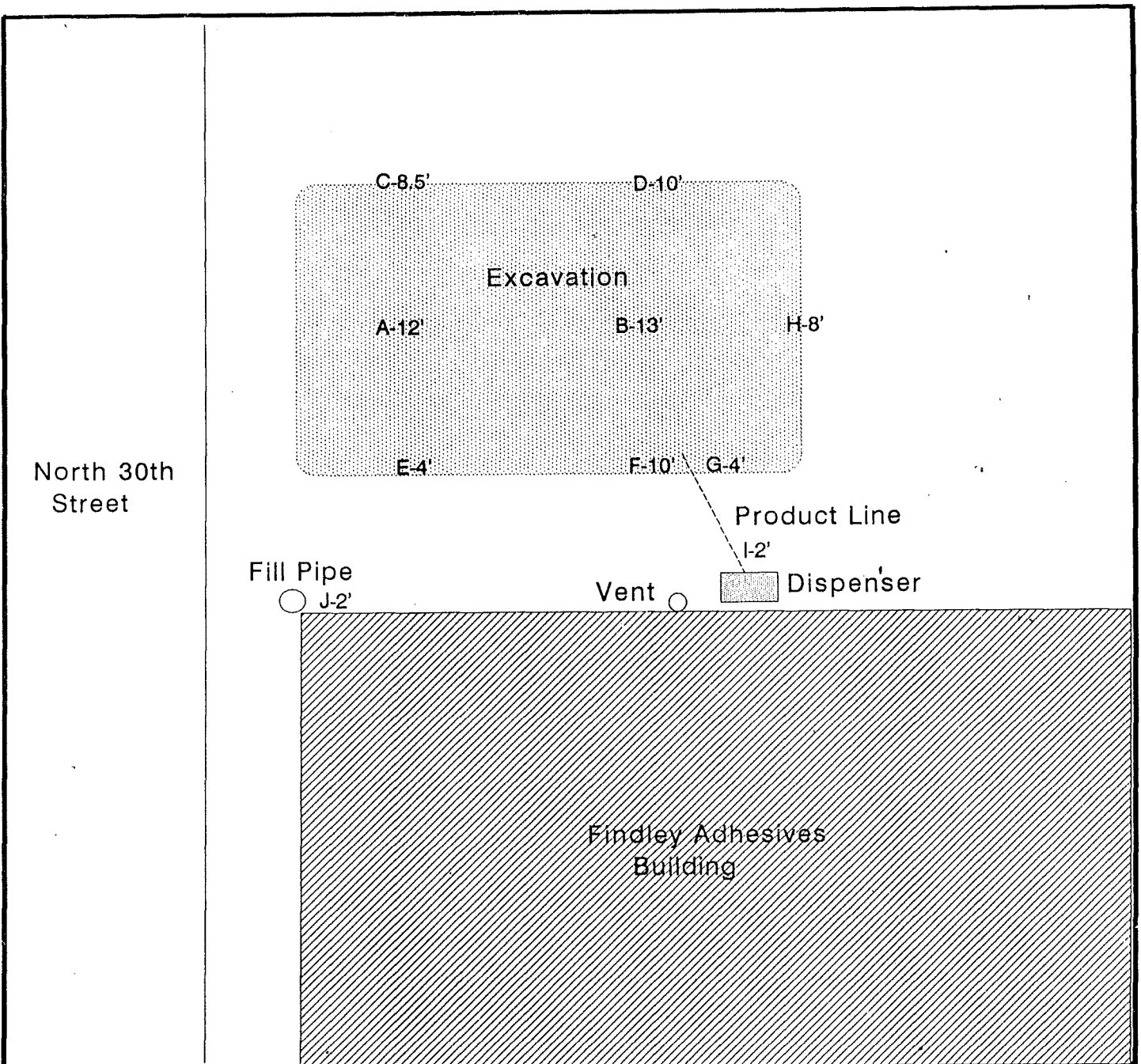
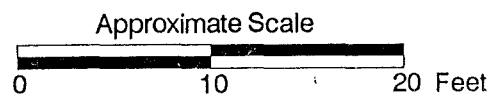


FIGURE 2



SAMPLE LOCATION MAP

Findley Adhesives  
Milwaukee, Wisconsin



LEGEND

A-J Sample Locations

TABLE 1

**SOIL QUALITY RESULTS**

| <u>Sample Location</u> | <u>Depth</u> | <u>PID Result (ppm)</u> | <u>Laboratory Results TPH (ppm)</u> |
|------------------------|--------------|-------------------------|-------------------------------------|
| A                      | 12'          | 2.0                     | < 4.0                               |
| B                      | 13'          | 1.1                     | < 4.0                               |
| C                      | 8.5'         | 1.3                     | N/A                                 |
| D                      | 10'          | 2.4                     | N/A                                 |
| E                      | 4'           | 2.8                     | < 4.0                               |
| F                      | 10'          | 2.6                     | < 4.0                               |
| G                      | 4'           | 4.3                     | < 4.0                               |
| H                      | 8'           | 4.5                     | < 4.0                               |
| I                      | 2'           | 3.9                     | < 4.0                               |
| J                      | 8'           | 4.8                     | < 4.0                               |

N/A -Not Analyzed

Geology. The Regional Geology of the area is dominated by Pleistocene-age deposits of the Wisconsin stage of continental glaciation. Locally, the deposits are ground and end moraines comprised of reddish-brown clayey tills.

Soils in the excavation walls were consistent with the regional geology.

Hydrogeology. The water resources in the Milwaukee area consist of Lake Michigan, several small streams, and groundwater. The majority of water used in the Milwaukee Metropolitan Area is obtained from Lake Michigan.

The principal aquifers for groundwater in the Milwaukee area are the Pleistocene sands and gravels, Niagaran dolomite, and the deeper sandstones. The sandstone aquifer is separated from the shallower Pleistocene drift and Niagaran dolomite by the relatively impermeable Maquoketa shale.

V. SOIL QUALITY

Soil Quality Results. A total of ten (10) soil samples were collected from the tank excavation. Eight (8) samples were submitted to the CBC Environmental Laboratory for analysis of Total Petroleum Hydrocarbons (TPH).

Laboratory results revealed no elevated concentrations of TPH in the samples submitted.

VI. REGULATIONS

The Wisconsin Department of Natural Resources (WDNR) has not established Preventative Action Limits or Enforcement Standards for substances detected in soils. The WDNR policy requires a subsurface investigation to determine the extent and character of the contamination and implement a remedial action program if the levels of Total Petroleum Hydrocarbons in soils is above ten (10) parts per million (ppm). The 10 ppm level has not been exceeded in any of the samples analyzed.

VII. CONCLUSIONS

The Underground Storage Tank closure and soils assessment at 2930 West Center Street in Milwaukee, Wisconsin, is completed. The following conclusions are made based on the preliminary study:

1. The site geology consists of reddish-brown clayey soils.
2. Conformational analysis of soil samples collected at the site did not detect any significant levels of the compounds analyzed (Total Petroleum Hydrocarbons).

#### VIII. 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. CBC Environmental Services 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

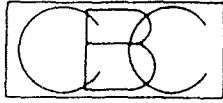
and frequency, every soil condition may not be observed, and some materials or layers which are present in the subsurface may not be noted.

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 Findley Adhesives. Reproduction or distribution of this report should not be performed without written consent of Findley Adhesives and CBC.



**APPENDIX A**  
**LABORATORY REPORTS**



# ENVIRONMENTAL SERVICES

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

11/05/90

LABORATORY REPORT

PAGE 1

C739 8456767 W61

CBC REMEDIAL SERVICES INC.  
140 E. RYAN ROAD  
OAK CREEK ,WI 53154  
ATTN: CRAIG VARLAND

TCSOCR0301

SAMPLE 90302-C11519 SOIL/A/12'/PID=2.0/FINDLEY ADHESIVES  
DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| 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.

IL EPA CERTIFICATION # 100243; AIHA ACCREDITED.

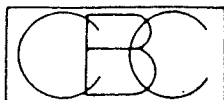
APPROVAL WRS

WI DNR LAB CERTIFICATION #241283020

FAX #414-764-0486

CLIENT SERVICES DIRECT LINE 414-768-7460

1-800-365-3840



# ENVIRONMENTAL SERVICES

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

11/05/90

LABORATORY REPORT

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CBC REMEDIAL SERVICES INC.  
140 E. RYAN ROAD  
OAK CREEK, WI 53154  
ATTN: CRAIG VARLAND

TCSOCR0301

SAMPLE 90302-C11520 SOIL/B/13'/PID=1.1/FINDLEY ADHESIVES  
DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| TEST NAME                    | RESULT | UNITS |
|------------------------------|--------|-------|
| TOTAL PETROLEUM HYDROCARBONS | <4.0   | PPM   |

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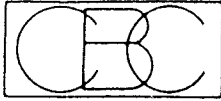
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C739 8456767 W61

CBC REMEDIAL SERVICES INC.  
140 E. RYAN ROAD  
OAK CREEK, WI 53154  
ATTN: CRAIG VARLAND

JCSOCR0301

SAMPLE 90302-C11521 SOIL/E/4'/PID=2.8/FINDLEY ADHESIVES  
DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| TEST NAME                    | RESULT | UNITS |
|------------------------------|--------|-------|
| TOTAL PETROLEUM HYDROCARBONS | <4.0   | PPM   |

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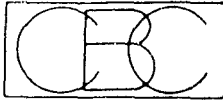
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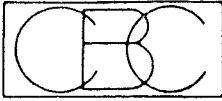
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DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| TEST NAME                    | RESULT | UNITS |
|------------------------------|--------|-------|
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140 E. RYAN ROAD  
OAK CREEK ,WI 53154  
ATTN: CRAIG VARLAND

TCSOCR0301

SAMPLE 90302-C11523 SOIL/G/4'/PID=4.3/FINDLEY ADHESIVES  
DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| TEST NAME                    | RESULT | UNITS |
|------------------------------|--------|-------|
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APPROVAL

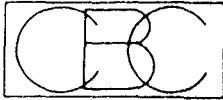
WBS

WI DNR LAB CERTIFICATION #241283020

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CLIENT SERVICES DIRECT LINE 414-768-7460

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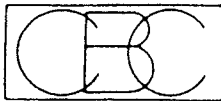
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DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| TEST NAME                    | RESULT | UNITS |
|------------------------------|--------|-------|
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APPROVAL WPS



# ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION

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

11/05/90

LABORATORY REPORT

PAGE 1

C739 8456767 W61

CBC REMEDIAL SERVICES INC.  
140 E. RYAN ROAD  
OAK CREEK, WI 53154  
ATTN: CRAIG VARLAND

TCSOCR0301

SAMPLE 90302-C11525 SOIL/1/2'/PID=3.9/FINDLEY ADHESIVES  
DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| 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.

IL EPA CERTIFICATION # 100243; AIHA ACCREDITED.

APPROVAL

*WRS*

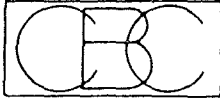
WI DNR LAB CERTIFICATION #241283020

FAX #414-764-0486

CLIENT SERVICES DIRECT LINE 414-768-7460

1-800-365-3840





# ENVIRONMENTAL SERVICES

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

11/05/90

LABORATORY REPORT

PAGE 1

C739 8456767 W61

CBC REMEDIAL SERVICES INC.  
140 E. RYAN ROAD  
OAK CREEK ,WI 53154  
ATTN: CRAIG VARLAND

JCSOCR0301

SAMPLE 90302-C11527 SOIL/J/2'/PID=4.8/FINDLEY ADHESIVES  
DATE COLLECTED 10/29/90 DATE RECEIVED 10/29/90

| 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.  
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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED.

APPROVAL WRS

FAX #414-764-0486

WI DNR LAB CERTIFICATION #241283020  
CLIENT SERVICES DIRECT LINE 414-768-7460

1-800-365-3840

**UNDERGROUND  
PETROLEUM PRODUCT  
TANK INVENTORY**

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

**For Office Use Only:**  
Tank ID #

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):               |  |   | Fire Department Providing Fire Coverage Where Tank Is Located Is In:                                       |                  |
| 1. <input type="checkbox"/> In Use                                     | 4. <input checked="" type="checkbox"/> Abandoned - Tank Removed    | 8. <input type="checkbox"/> Changed Ownership | <input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town-of |                  |
| 2. <input type="checkbox"/> Abandoned With Product                     | 6. <input type="checkbox"/> Abandoned - Filled With Inert Material | (Indicate new owner in section A. 4. below)   |  | <i>Milwaukee</i> |
| 3. <input type="checkbox"/> Abandoned No Product (empty) or With Water | 7. <input type="checkbox"/> Out of Service                         |   |  |                  |

**A. IDENTIFICATION: (Please Print)**

|  |  |  |  |   |        |
|--|--|--|--|---|--------|
| 1. Installation Name<br><i>Finley Adhesives</i>  |  |  | 2. Mailing Name if Different Than #1   |   |        |
| Installation Street Address<br><i>2930 West Center Street</i>  |  |  | Mailing Address if Different Than #1   |   |        |
| <input checked="" type="checkbox"/> City <i>Milwaukee</i> <input type="checkbox"/> Village <input type="checkbox"/> Town of: |  |  | <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: |   |        |
| State<br><i>Wisconsin</i>  | Zip Code<br><i>53210</i>                                   | County<br><i>Milwaukee</i>                 | State  | Zip Code  | County |
| 3. Name of Contact Person<br><i>Mike Gumpert</i>   |  |  | 4. Owner Name if Different Than #3   |   |        |
| Street Address<br><i>SAME AS ABOVE</i>   |  |  | Street Address   |   |        |
| <input type="checkbox"/> City <input type="checkbox"/> Town  |  | State                                      | Zip Code   | <input type="checkbox"/> City <input type="checkbox"/> Town |        |
| <input type="checkbox"/> Village of:   |  |  |  | <input type="checkbox"/> Village of:                        |        |
| County   | Telephone No. (include area code)<br><i>(414) 774-2250</i> |  | County   | Telephone No. (include area code)                           |        |
| 5. Tank Age (date installed, if known: or years old)<br><i>1985</i>  |  | 6. Tank Capacity (gallons)<br><i>8,000</i> |  | 7. Tank Manufacturer's Name (if known)                      |        |

**B. TYPE OF USER (check one):**

- |   |   |                                     |   |
|---|---|-------------------------------------|---|
| 1. <input type="checkbox"/> Gas Station           | 2. <input type="checkbox"/> Bulk Storage            | 3. <input type="checkbox"/> Utility | 4. <input type="checkbox"/> Mercantile  |
| 5. <input checked="" type="checkbox"/> Industrial | 6. <input type="checkbox"/> Government              | 7. <input type="checkbox"/> School  | 8. <input type="checkbox"/> Residential |
| 9. <input type="checkbox"/> Agricultural          | 10. <input type="checkbox"/> Other (specify): _____ |                                     |   |

**C. TANK CONSTRUCTION:**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Bare Steel                           | 2. <input type="checkbox"/> Cathodically Protected and Coated Steel (a. <input type="checkbox"/> Sacrificial Anodes or b. <input type="checkbox"/> Impressed Current) |
| 3. <input type="checkbox"/> Coated Steel                                    | 4. <input type="checkbox"/> Fiberglass  |
| 5. <input type="checkbox"/> Other (specify): _____                          | 6. <input type="checkbox"/> Relined   |
| 7. <input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite | 8. <input type="checkbox"/> Unknown   |

|   |   |
|---|---|
| Approval: 1. <input type="checkbox"/> Nat'l Std. 2. <input checked="" type="checkbox"/> UL 3. <input type="checkbox"/> Other: _____ | Is Tank Double Walled? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Overfill Protection Provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, identify type: _____      | Spill Containment? <input type="checkbox"/> Yes <input type="checkbox"/> No     |
| Tank leak detection method: 1. <input type="checkbox"/> Automatic tank gauging  | 2. <input type="checkbox"/> Vapor monitoring                                    |
| 3. <input type="checkbox"/> Groundwater monitoring  | 4. <input type="checkbox"/> Inventory control and tightness testing             |
| 5. <input type="checkbox"/> Interstitial monitoring   | 6. <input checked="" type="checkbox"/> Not required at present                  |

**D. PIPING CONSTRUCTION**

- |   |  |  |
|---|--|--|
| 1. <input checked="" type="checkbox"/> Bare Steel | 2. <input type="checkbox"/> Cathodically Protected and Coated or Wrapped Steel (a. <input type="checkbox"/> Sacrificial Anodes or b. <input type="checkbox"/> Impressed Current) | 3. <input type="checkbox"/> Coated Steel |
| 4. <input type="checkbox"/> Fiberglass            | 5. <input type="checkbox"/> Other (specify): _____   | 9. <input type="checkbox"/> Unknown      |

|  |   |
|--|---|
| Piping System Type: 1. <input type="checkbox"/> Pressurized piping with: a. <input type="checkbox"/> auto shutoff; b. <input type="checkbox"/> alarm; or c. <input type="checkbox"/> flow restrictor | 2. <input type="checkbox"/> Suction piping with check valve at tank     |
| 3. <input checked="" type="checkbox"/> Suction piping with check valve at pump and inspectable   |   |
| Piping leak detection method: used if pressurized or check valve at tank: 1. <input type="checkbox"/> Vapor monitoring   | 2. <input type="checkbox"/> Interstitial monitoring                     |
| 3. <input type="checkbox"/> Groundwater monitoring   | 4. <input type="checkbox"/> Tightness testing                           |
| 5. <input type="checkbox"/> Line Leak Detector   | 6. <input checked="" type="checkbox"/> Not Required                     |
| Approval: 1. <input type="checkbox"/> Nat'l Std. 2. <input checked="" type="checkbox"/> UL 3. <input type="checkbox"/> Other: _____  | Double Walled: <input type="checkbox"/> Yes <input type="checkbox"/> No |

**E. TANK CONTENTS**

- |   |  |  |  |
|---|--|--|--|
| 1. <input type="checkbox"/> Diesel      | 2. <input type="checkbox"/> Leaded                             | 3. <input type="checkbox"/> Unleaded   | 4. <input type="checkbox"/> Fuel Oil           |
| 5. <input type="checkbox"/> Gasohol     | 6. <input checked="" type="checkbox"/> Other Mineral Oil, VSP. | 7. <input type="checkbox"/> Empty      | 8. <input type="checkbox"/> Sand/Gravel/Slurry |
| 9. <input type="checkbox"/> Unknown     | 10. <input type="checkbox"/> Premix                            | 11. <input type="checkbox"/> Waste Oil | 12. <input type="checkbox"/> Propane           |
| 13. <input type="checkbox"/> Chemical * |  | 14. <input type="checkbox"/> Kerosene  | 15. <input type="checkbox"/> 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):<br><i>October, 29, 1990</i> | Has a site assessment been completed? (see reverse side for details)<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|---|---|

|  |                                   |  |
|--|-----------------------------------|--|
| If installation of a new tank is being reported, indicate who performed the installation inspection: |                                   |  |
| 1. <input type="checkbox"/> Fire Department  | 2. <input type="checkbox"/> DILHR | 3. <input type="checkbox"/> Other (identify) _____ |

|   |  |
|---|--|
| Signature of Person Completing Report:<br><i>Thomas C Sweet</i> | Date Signed:<br><i>January 7, 1991</i> |
|---|--|

## BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

This underground tank inventory is being established to help identify the need for future actions required to clear up potential problems before they occur. Your help in identifying abandoned, "in use" and "new use" tank locations will greatly assist this effort to protect Wisconsin's ground water.

### SITE ASSESSMENT INFORMATION

Requirements for a site assessment at the closure or change in service for a federally regulated underground storage tank were outlined in federal rules published in the September 23, 1988 Federal Register, 40 CFR 280 and 281.

The requirements in § 280.72 state:

(a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release. The requirements of this section are satisfied if one of the external release detection methods allowed in § 280.43 (e) and (f) is operating in accordance with the requirements in § 280.43 at the time of closure, and indicates no release has occurred.

The external release detection methods in § 280.43 (e) and (f) are summarized below:

*"(e) Vapor monitoring."* This sub section refers to the testing or monitoring for vapors within the soil gas of the tank's excavation zone. It further requires seven (7) conditions to be met to qualify the testing program as a valid vapor monitoring system.

*"(f) Ground-water monitoring."* This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

Complete written guidelines on the conduct of a site assessment can be obtained from the DILHR Bureau of Petroleum Inspection & Fire Protection at the following address:

Bureau of Petroleum Inspection and Fire Protection  
P.O. Box 7969  
Madison, WI 53707

Site assessments are to be submitted to both the DILHR office and to the DNR at the following addresses:

Bureau of Petroleum Inspection & Fire Protection  
P.O. Box 7969  
Madison, WI 53707

Bureau of Solid and Hazardous Waste Management  
P.O. Box 7921  
Madison, WI 53707

When submitting a site assessment, you must include a copy of the Inventory form which was submitted to report the tank closure.