



March 27, 1998

Ms. Sheryl Corrigan 3M Building 41-01-05 PO Box 33331 St. Paul MN 55133-3331



Subject:

Close-out of Case #54417-9999-00 / BRRTS # 03-37-001086

3M Greystone Facility

Town of Maine

Dear Ms. Corrigan:

On March 20, 1998 the above site was reviewed for closure by the Site Review staff of the PECFA Bureau. Because the site involved only soil contamination, without a threat to groundwater, all issues relating to this site are administered by the staff within the Department of Commerce's PECFA Bureau. Using the standards established in NR 700, the Department has determined that this site has been remediated to a level protective of the environment and human health. The Department considers this site to meet environmental standards, and no further action is necessary.

This is based upon the information provided to us by your consultant. If, in the future, site conditions indicate that any contamination that might remain poses a threat, the need for further remediation would be determined and required if necessary.

This closure is for the 50,000 gallon No 2 fuel oil tank only. The Department of Natural Resources has informed me that there is groundwater contamination present on this site associated with other tanks if different locations and not associated with this tank.

Be sure to include a copy of this letter with your PECFA claim package, if your site is eligible for reimbursement. This letter is to take the place of the Form 4-B.

Thank you for your efforts in the protection of the environment. If you have any additional questions, please call me at 715-762-5557.

Sincerely,

Shanna L. Laube Hydrogeologist PECFA Program

cc:



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary Scott Humrickhouse, Regional Director Wausau Office 5301 Rib Mountain Drive Wausau, WI 54401 TELEPHONE 715-359-4522 FAX 715-355-5253

54417-9999-00

March 17, 1998

BRRTS#03-37-001086

MS SHERYL CORRIGAN 3M BUILDING 41-01-05 PO BOX 33331 ST PAUL MN 55133-3331

SUBJECT: File Transfer

3M - Greystone Facility Town of Maine, Wisconsin

Dear Ms. Corrigan:

Your file is being transferred to the Department of Commerce(Commerce) based on a file review. This review indicates that only soil contamination has been identified at the site. Cases pertaining to soil contamination are routinely handled by Commerce. I will forward your file to Ms. Shanna Laube in Park Falls. All future correspondence should be sent to Ms. Laube at the following address:

Ms. Shanna Laube Department of Commerce P.O. Box 530 214 North Fourth Avenue Park Falls, WI 54552-0530

If you have any questions regarding your file please contact Shanna at 715/762-5557. If you have any questions regarding this letter, please contact me at 715/359-6514. In addition, I am still looking at information pertaining to your closure request for the Wausau Facility parking lot. Please call me if you have any questions regarding that site.

Sincerely, Liver Dutlinecht

Lisa A. Gutknecht - Project Reviewer Remediation and Redevelopment Program

c: Bill Evans, WCR - Eau Claire

APRILE COPY



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

5301 Rib Mountain Drive Wausau, WI 54401

TELEPHONE 715-359-4522 TELEFAX 715-355-5253

George E. Meyer Secretary

April 20, 1995

NCD UID#: 1086

MR ROBERT SIEGEL

3M ENVIRONMENTAL TECHNOLOGY

AND SERVICES

PO BOX 33331

ST PAUL MN 55133-3331

RE: Closure Assessment Greystone Plant Maine, Wisconsin

Dear Mr. Siegel:

The Department of Natural Resources (Department) has reviewed the above-referenced report for closure. Based on our review, this case could be submitted for closure. We need however, the following information before we can submit it to the Closure committee.

The attached closure form must be completed and submitted to the Department. We also need documentation regarding the disposal of the contaminated stockpile. Once this information has been transmitted, I will be able to submit your case for closure. If you have any questions, regarding this letter, please contact me at 715/359-6514.

Sincerely,
NORTH CENTRAL DISTRICT

Lisa A. Hrubesky - Project Manager

Leaking Underground Storage Tank Program

Attachment



#1086

UNDERGROUND STORAGE TANK
CLOSURE ASSESSMENT REPORT

3M INDUSTRIAL MINERAL PRODUCTS DIV

GREYSTONE PLANT

4TH AND DECATUR

MAINE, WISCONSIN

DELTA NO. A094-565

Spied the day between the state of and we bon was the process of parties of the p



Malical DNR Office

UNDERGROUND STORAGE TANK CLOSURE ASSESSMENT REPORT

3M INDUSTRIAL MINERAL PRODUCTS DIVISION

GREYSTONE PLANT

4TH AND DECATUR

MAINE, WISCONSIN

DELTA NO. A094-565

Prepared by:

Delta Environmental Consultants, Inc. 3900 Northwoods Drive, Suite 200 St. Paul, MN 55112 (612) 486-8022

February 28, 1995

TABLE OF CONTENTS

| 1.1 Pu | rpose | • • • • • • • • • • • • • | | | |
|--|--|---------------------------|---------------------|-------------------------------|---|
| 2.1 Sit | KGROUND INFORMATION CONTROL CO | | | <i></i> | |
| 3.1 Wo 3.2 Vi 3.3 Ex 3.4 Ta | RESULTS eather sual Inspection cavation nk Cleaning and Disposal . b Reports | | | | |
| 4.0 DISCUSSI | ON | | • • • • • • • • • • | | |
| 5.0 RECOMM | ENDATIONS | | • • • • • • • • • | · · · · · · · · · · · · · · · | |
| 6.0 REMARK | s | | | | |
| | | List of Tables | | | |
| Table 1 Table 2 | Soil Vapor Readings Soil Analytical Results | | | | |
| | | List of Figures | | | * |
| Figure 1 Figure 2 Figure 3 Figure 4 | Site Location Map Site Map Soil Vapor Locations Analytical Soil Sample Loc | cation | | | |
| | | List of Appendice | <u>es</u> | | |
| Appendix A Appendix B Appendix C | Tank Tightness Tests Analytical Results Tank Closure Checklist | | | | |

UNDERGROUND STORAGE TANK CLOSURE ASSESSMENT REPORT

3M INDUSTRIAL MINERAL PRODUCTS DIVISION

GREYSTONE PLANT 4TH AND DECATUR MAINE, WISCONSIN DELTA NO. A094-565

1.0 INTRODUCTION

1.1 Purpose

The purpose of this report is to present the results of the underground storage tank closure activities completed by Delta Environmental Consultants, Inc. (Delta), at the 3M Industrial Mineral Products Division Greystone Plant in Maine, Wisconsin. Delta was authorized on October 13, 1994, by Robert Siegel of 3M, to perform these activities. On-site activity took place from October 31 through November 4, 1994. Jared Otto (certification No. 05083) of Delta performed the site assessment.

1.2 Scope of Work Performed

The following activities have been performed by Delta or under Delta's supervision:

- Removed and disposed of one underground storage tank (UST), and associated piping.
- Screened excavated soils and soils remaining in the excavations with a photoionization detector (PID) to evaluate the presence of hydrocarbons.
- Collected soil samples from the excavation and excavated soils stockpiled on site for laboratory analysis of petroleum volatile organic compounds (PVOC), diesel range organics (DRO), and polynuclear aromatic hydrocarbons (PAH) to document closure conditions.
- Prepared this tank closure report.
- The DIHLR-certified remover/cleaner for this assessment was:

SGS, Inc.
John Geiss (certification no. 00315)
W4490 Pope Road, 12-7
Merill, WI 54452
(800) 261-2803

The General Contractor was:

Northwest Petroleum Services, Inc. Perry Schuette 4080 North 20th Avenue Wausau, WI 54401 (715) 355-1386

2.0 SITE BACKGROUND INFORMATION

2.1 Site Description

The 3M Industrial Mineral Products Division Greystone Plant is located at 4th and Decatur Drive, Maine, WI 55401. The legal description of the site is the northeast ¼, of the southwest ¼, of the northwest ¼, of the northeast ¼, of Section 11, Township 29 North, Range 7 East. A topographic map of the regional area is presented as Figure 1 and a site map as Figure 2. No tanks, gas stations or leaking UST sites are known to exist on the adjacent properties.

2.2 Site History

3M has owned this site since 1954. Prior to November 1994, one 50,000-gallon UST containing No. 2 fuel oil, installed in 1978, was located on site. No petroleum storage tanks remain on site.

Tank and line tightness tests are included in Appendix A. These tank tightness tests were performed under 3M's underground tank program prior to the regulatory requirements, and therefore tanks were tested on an "as-available basis." There has been previous geotechnical work performed at this site, but information related to this work was not available at the time of this report.

3.0 PROJECT RESULTS

3.1 Weather

Weather conditions on the days of the site assessment ranged from sunny to mostly cloudy, with no precipitation. Temperatures ranged from 40 to 50 degrees, with light to moderate variable winds.

3.2 Visual Inspection

The tank was covered with sparse vegetation with no visible signs of staining present at the surface. Backfill soils in the tank excavation consisted of a clean, fine-grained sand (SP), and extended to a depth of approximately 18 feet. Soil was moist, and color varied from grey to light-brown, with visible staining evident below the surface near the fill port, located at the south end of the tank. The stained material was dark grey with a slight green hue. Native soil consisted of a clean, fine- to medium-grained sand, which was moist and light-brown in color. The UST was installed on top of a concrete slab with hold-down anchors on each side of the tank. The concrete slab was not removed, due to the depth and thickness of the slab. The tank was 12 feet in diameter and 60 feet in length. The tank and associated piping were in good condition. The tank

was constructed of carbon steel, and no visible holes or pitting was observed on any part of the tank. Piping and fittings were made of coated steel and were also in good condition, with no signs of leaks or loose fittings. Ground water was not encountered during any part of the excavation.

3.3 Excavation

Soils removed from the excavation were screened in the field using a PID equipped with an 11.8 electron volt (eV) bulb using headspace procedures. Soil samples were collected from the backhoe bucket and placed in a clean polyethylene bag and sealed. After the samples had equilibrated to ambient air temperatures, the bag was punctured with the PID probe. This allowed for the measurement of volatile organic vapors which had accumulated in the headspace of the bag. The location of the soil samples collected for field screening are presented on Figure 3. The summary results are presented in Table 1. The PIDs were calibrated prior to use in the field on October 28, 1994.

50,000-gallon No. 2 fuel oil UST

The tank basin for the 50,000-gallon No. 2 fuel oil UST was excavated to a depth of 18 feet below ground surface (bgs). The associated piping was cut and capped at the edge of a building. All of the piping could not be removed, due to the proximity of a steel stairway located next to the plant building. There were no dispensers associated with the fuel oil UST.

Excavation of Impacted Soil

Impacted soils were encountered in a limited area from 3 feet bgs to a depth of approximately 15 feet bgs. The impacted soils were removed from the tank basin during excavation and placed on plastic. The impacted area was located near the fill port area. After removal of the tank, three test trenches were excavated to the west, south, and east. Non-impacted soils were found approximately 5 feet laterally from the original basin. The remaining impacted soils were then removed from the tank basin and added to the stockpile. A total of approximately 200 cubic yards of impacted soil were stockpiled on site. After collection of analytical soil samples, the stockpile was covered with plastic. The stockpile is being stored on site, pending disposal.

3.4 Tank Cleaning and Disposal

The tank was cleaned on site. Sludge and wastewater were generated while cleaning the tanks, and put into clean 55-gallon drums. The drums were labeled and sealed. All sludge generated from the cleaning of this tank was disposed of at the 3M Corporate Incinerator in Cottage Grove, MN. The tank was transported by SGS, Inc. to their yard for further destruction, and salvaged for scrap metal. Tank sludge was not present in the tank at the time of removal from the site.

3.5 Lab Reports

Soil samples were collected and submitted to Huntingdon Engineering & Environmental, Inc. for chemical analyses for DRO, petroleum volatile organic compounds (PVOC), and polynuclear aromatic hydrocarbons (PAH). Analytical soil sample locations are shown on Figure 4. At each location where an analytical soil sample was collected, it was split for a headspace reading. The analytical samples were sealed in the appropriate jars and placed in a cooler containing ice, to keep the samples chilled until reaching the laboratory. Table 1 lists the PID headspace readings for each soil sample location. Tables 2 and 3 list the analytical results. The laboratory report and chain-of-custody forms are contained in Appendix C.

Analytical results from the sidewall and base samples show concentrations below practical quantitation limit or not detected. Stockpile samples show concentrations of 6,600 milligrams per kilogram (mg/kg) and 8,700 mg/kg DRO. Both stockpile samples showed low concentrations of PVOCs and PAHs.

4.0 DISCUSSION

Hydrocarbon-impacted soils were detected only in the area of the fill port. This impact was most likely a result of tank overfills. Soil samples from the excavation were field screened, with select samples sent to a laboratory to document soil conditions upon completion of the excavation. These results indicate that over-excavation activities have removed the impacted soils.

5.0 RECOMMENDATIONS

No further assessment activities are necessary, with respect to the 50,000-gallon fuel oil UST and associated piping. This portion of the project should be closed.

6.0 REMARKS

The recommendations contained in this report represent our professional opinions. The opinions are based on currently-available information and are arrived at in accordance with currently-accepted hydrogeological and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by DELTA ENVIRONMENTAL CONSULTANTS, INC.

Jared A. Otto

Certified Site Assessor/Geologist

Date: 2/28/95

Daniel L. Sanville

Senior Geological Engineer

Date: 2595

crs.022895

TABLE 1 SOIL VAPOR READINGS 3M-GREYSTONE SITE DELTA NO. A094-565

| Location | Depth (ft) | Headspace (ppm) | Moisture Content | Odor | Soil Type |
|----------------|------------|-----------------|------------------|----------|-------------|
| SV-1 | 3 | 156 | moist | strong | SP |
| SV-2 | 5 | 126 | moist | strong | SP |
| SV-3 | 5 | 118 | moist | strong | SP |
| SV-4 | . 8 | 124 | moist | strong | SP |
| SV-5 | 10 | 106 | moist | strong | SP |
| SV-6 | 10 | 151 | moist | strong | SP |
| SV-7 | 12 | 68 | moist | mild | SP |
| SV-8 | 12 | 15 | moist | mild | SP |
| SV-9 | 13 | 5 | | | SP |
| | | 2 | moist | none | SP |
| SV-10 | 15 | | moist | none | |
| SV-11 | 9 | 116 | moist | strong | SP |
| SV-12 | 10 | 12 | moist | mild | SP |
| SV-13 | 10 | 56 | moist | mild | SP |
| SV-14 | 13 | 2 | moist | none | SP |
| SV-15 | 18 | | moist | none | SP |
| SV-16 | 18 | 0 | moist | none | SP |
| SV-17 | 18 | 0 | moist | none | SP |
| SV-18 | 12 | 0 | moist | none | SP |
| SV-19 | 12 | 0 | moist | none | SP |
| SV-20 | 12 | 0 | moist | none | SP |
| \$V-21 | 5 | 0 | moist | none | SP |
| SV-22 | 5 | 0 | moist | none | SP |
| SV-23 | 12 | 0 | moist | none | - SP |
| SV-24 | 12 | 0 | moist | none | SP |
| SV-25 | . 12 | 0 | moist | none | SP |
| SV-26 | 5 | 0 | moist | none | SP |
| SV-27 | 15 | 0 | moist | none | SP |
| SV-28 | 15 | 0 | moist | none | SP |
| SV-29 | 15 | 0 | moist | none | SP |
| SV-30 | 15 | 0 | moist | none | SP |
| SV-31 | 15 | 0 | moist | none | SP |
| SV-32 | 18 | 1 | moist | none | SP |
| SV-33 | 12 | 2 | moist | none | SP |
| SV-34 | 12 | 0 | moist | <u> </u> | SP |
| SV-35 | 13 | 1 | moist | none | SP |
| SV-36 | 12 | 14 | | none | SP |
| | | | moist | mild | |
| SV-37 | 12 | 0 | moist | none | SP |
| SV-38 | 12 | 10 | moist | mild | SP |
| SV-39 | 17 | 0 | moist | none | SP |
| SV-40 | 12 | 0 | moist | none | SP |
| SV-41 | 11 | 19 | moist | mild | SP |
| SV-42 | 17 | 1 | moist | none | SP |
| SV-43 | 12 | 0 | moist | none | SP |
| SV-44 | 12 | 0 | moist | none | SP |
| SV-45 | 14 | 0 | moist | none | SP |
| STOCKPILE-1 | | 112 | moist | strong | SP |
| STOCKPILE-2 | | 134 | rnoist | strong | SP |
| BASE SOUTH | 18 | 1 | moist | none | SP |
| BASE CENTER | 18 | 0 | moist | none | SP |
| BASE NORTH | 18 | 0 | moist | none | SP |
| GREY PIPE 1 | 5 | 0 | moist | none | SP |
| GREY PIPE 2 | 5 | 0 | moist | none | SP |
| GREY PIPE 3 | 5 | 0 | moist | none | SP |
| GREY PIPE 4 | 5 | Ö | moist | none | SP |
| GREY PIPE 5 | 5 | 0 | | | SP |
| | | | moist | none | |
| BASE SE | 17 | 11 | moist | none | SP |
| BASE SW | 17 | 0 | moist | none | SP |
| SIDEWALL WEST | 13 | 9 | moist | none | SP |
| SIDEWALL SOUTH | | 0 | moist | none | SP |
| SIDEWALL NORTH | 13 | 0 | moist | none | SP |

TABLE 2 SOIL ANALYTICAL RESULTS MODIFIED DRO & MODIFIED EPA METHOD 8020 3M-GREYSTONE SITE DELTA NO. A094-565

| Sample I.D. | Depth (ft) | DRO | MTBE | Benzene | Toluene | Ethyl Benzene | Xylenes | 1,3,5-TMB | 1,2,4-TMB |
|----------------|------------|------|-------|---------|---------|---------------|---------|-----------|-----------|
| STOCKPILE-1 | - | 6600 | ND | ND. | 0.081 | 0.23 | 1.3 | 1.9 | 2.7 |
| STOCKPILE-2 | | 8700 | 1.4 | ND | ND | BQL | 2.4 | 3.1 | 4.1 |
| BASE SOUTH | 18 | ND | NA. | NA NA | NA | NA | NA | NA | NA |
| BASE CENTER | 18 | ND | NA | NA | NA | NA NA | NA | NA. | NA |
| BASE NORTH | 18 | BOL | NA | NA NA | NA | NA | NA | NA · | NA NA |
| GREY PIPE 1 | 5 | ND | NA. | . NA | NA | NA NA | NA | NA | NA |
| GREY PIPE 2 | 5 | BQL | NA NA | NA NA | NA . | NA . | NA | , NA | NA |
| GREY PIPE 3 | 5 | BOL | NA | NA | NA | NA | NA | NA NA | NA |
| GREY PIPE 4 | 5 | BQL | NA NA | NA | NA | NA | NA | NA | NA |
| GREY PIPE 5 | 5 | ND | NA | NA | NA NA | NA | NA | NA | NA . |
| BASE SE | 17 | ND | ND | ND | ND | ND | ND | ND | ND |
| BASE SW | 17 | ND | ND | ND | ND | ND | ND | ND | ND |
| SIDEWALL WEST | 13 | ND | ND | ND | ND | ND | ND | ND | ND |
| SIDEWALL SOUTH | 13 | ND | ND | DND | ND | ND | ND | ND | ND |
| SIDEWALL EAST | 13 | ND | ND | ND | ND | ND | ND | ND | NO |

ND-Not Detected NA-Not Analyzed BQL-Below Quantitation Limit

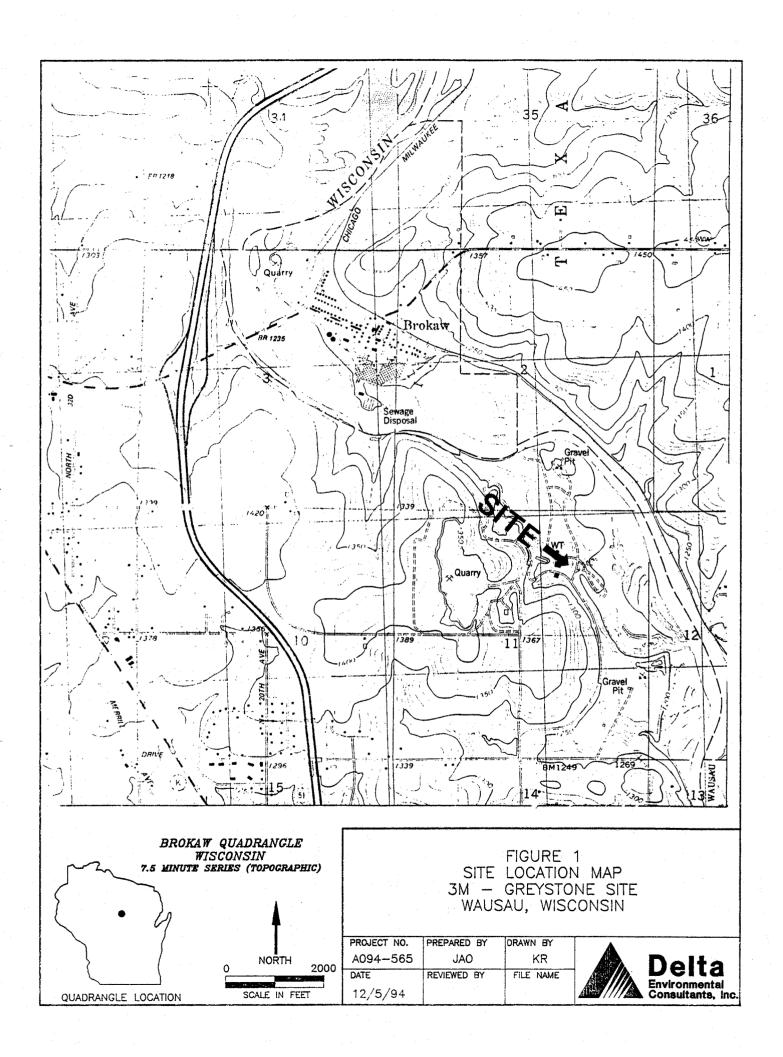
* All values are in mg/Kg which is equal to parts-per-million

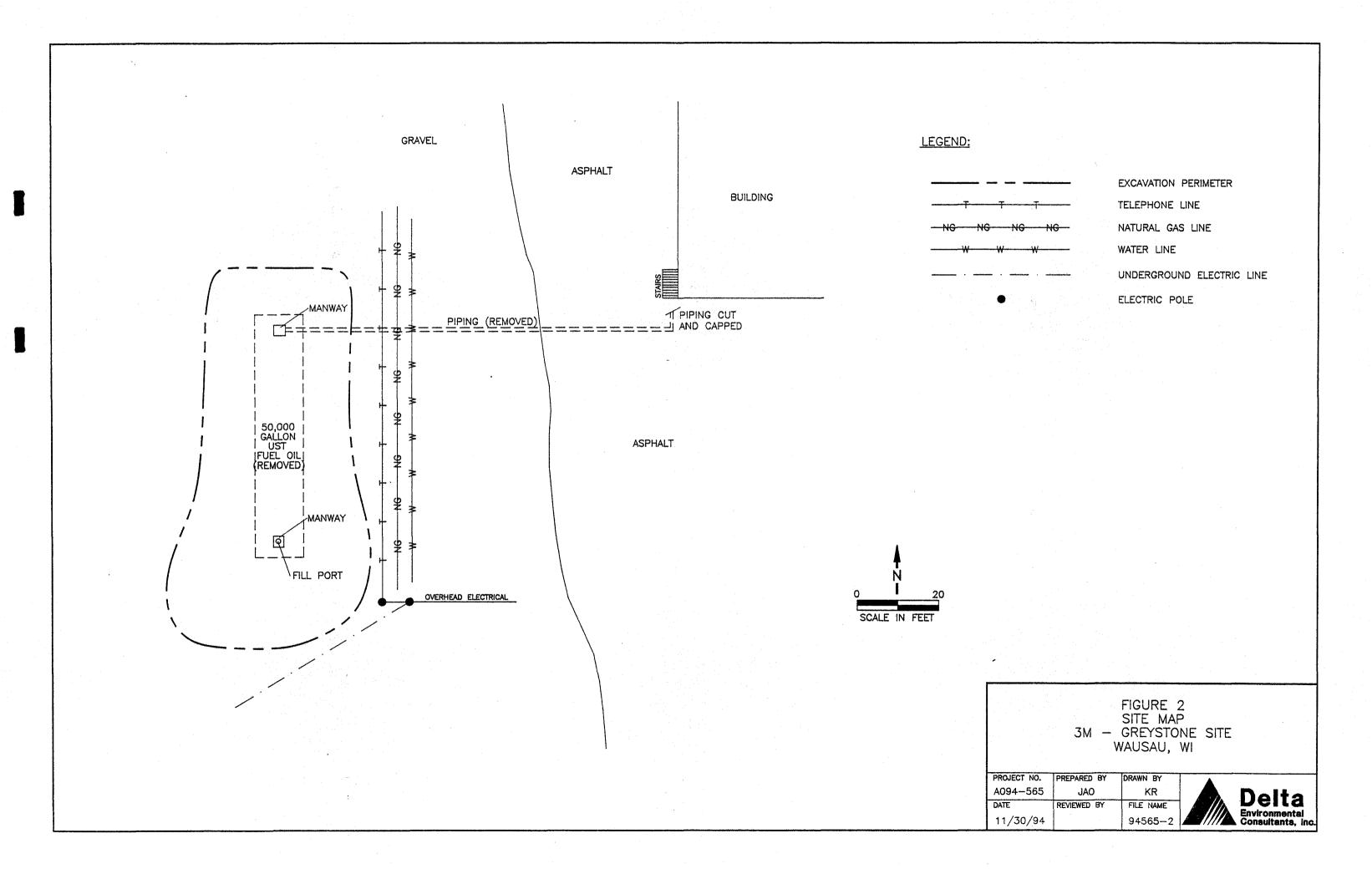
TABLE 3
SOIL ANALYTICAL RESULTS
EPA MODIFIED 8310 (PAH)
3M-GREYSTONE SITE
DELTA NO. A094-565

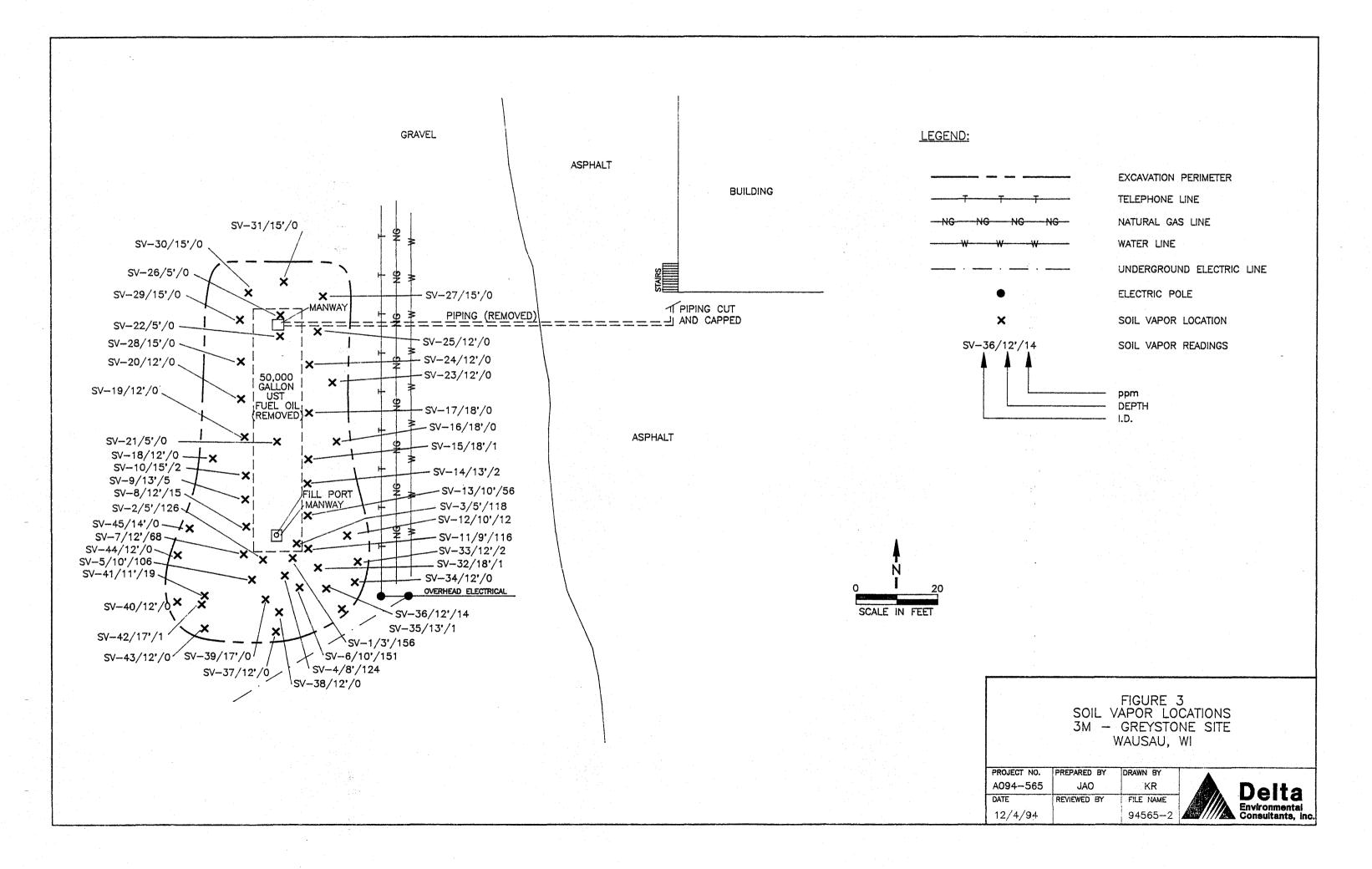
| | BASE SE | BASE SW | STOCKPILE 1 | STOCKPILE 2 |
|--------------------------|-------------|-------------|-------------|-------------|
| | 17 (ft bgs) | 17 (ft bgs) | | |
| Naphthalene | ND | ND | 1200 | 1700 |
| 1-methyl naphthalene | ND | ND | 9100 | 14000 |
| 2-methyl naphthalene | ND | ND | 7700 | 14000 |
| Acenaphthylene | ND | ND | 2600 | 3000 |
| Acenaphthene | ND | ND | 2100 | 1900 |
| Fluorene | ND | ND | 4400 | 5300 |
| Phenanthrene | ND | ND | 9500 | 3000 |
| Anthracene | ND | ND | ND | 760 |
| Fluoranthene | ND | ND | 20000 | 24000 |
| Pyrene | ND | ND | ND | ND |
| Benzo (a)-anthracene | ND | ND | 1500 | 1900 |
| Chrysene | ND | ND | ND | 170 |
| Benzo (b) fluoranthene | ND | ND | 30 | 22 |
| Benzo (k) fluoranthene | ND | ND . | ND | ND |
| Benzo (a) pyrene | ND | ND | 27 | ND |
| Dibenzo (a,h) anthracene | ND | ND | ND | ND |
| Benzo (ghi) perylene | ND | ND | 26 | 31 |
| Indeno (1,2,3 cd) pyrene | ND | ND | 30 | 34 |

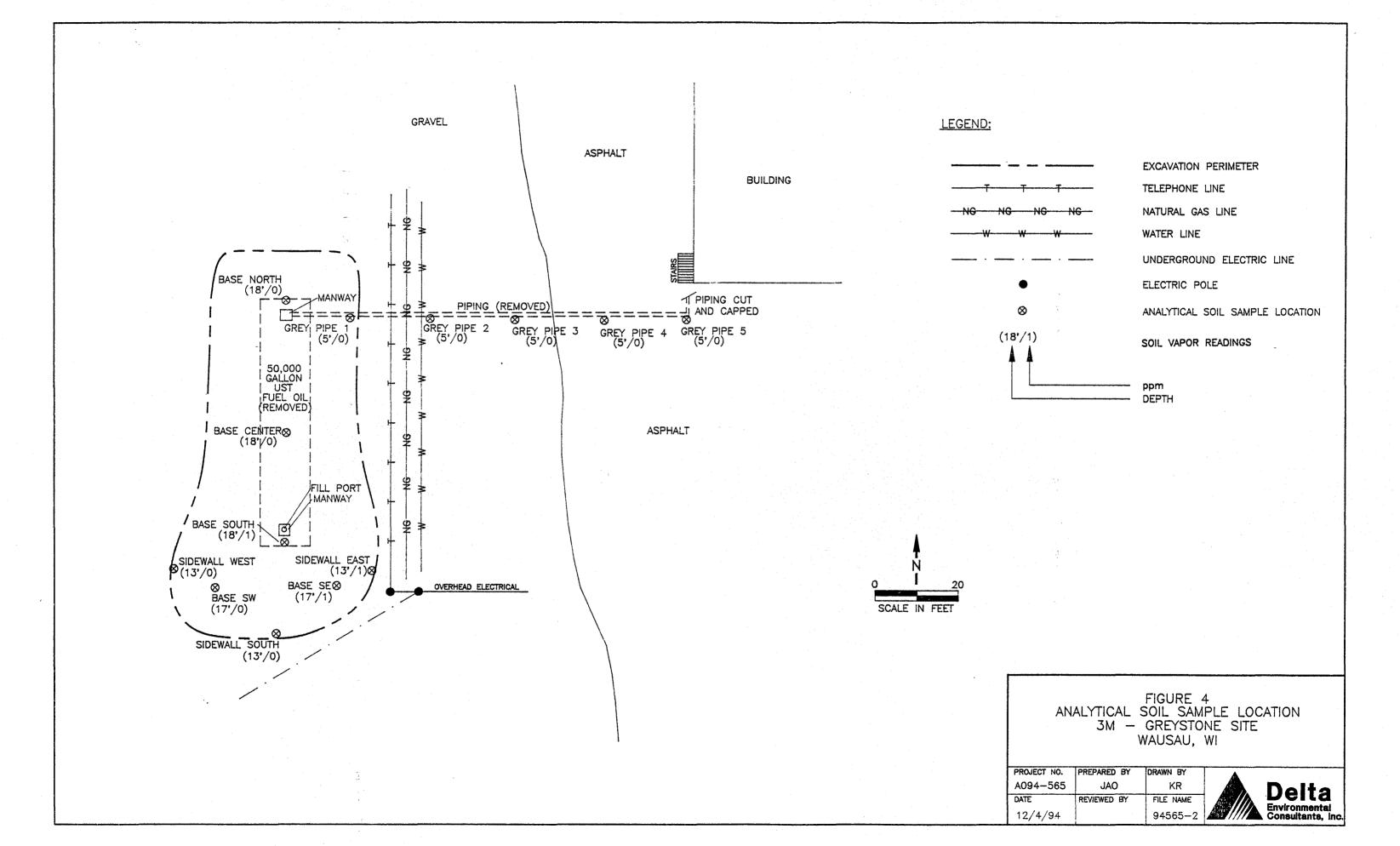
ND-Not Detected

^{*} All values are in ug/Kg which is equal to parts-per-billion









LINE LOKING 1114/ALIUSTR PELE PERIO 215 2-6

SUMMARY OF TEST RESULTS

| LOCATION: | Graysto | ne Quarry | uarry DATE: March 24, 1983 | | | | | | 3M | |
|-----------------|-----------------|----------------------------|----------------------------|---------------------------------|-------------------------|-----------------|---------------------------------------|---------------------------------------|-------------------|-------------------|
| LL8 | Wausau, | Wisconsin | | | COPIES | s to: <u>R.</u> | Siegel | | | |
| | | | | FINAL | REP | | · | | | |
| SYSTEM | TANK GALLONS | SIZE DIAMETER INCHES | WATER INCHES | PUMP DISCHARGE PRESSURE TEST | LEAK LEVEL INCHES | LOKATOR F | CONCLUSION | COMMENTS | - RECOMMENDATIONS | |
| #15 Fuel Oil | 51,500 | 144 | 1 | N/A | 205 | -0.023 | Tight | | | |
| | | | | | | | | | | |
| | | | v. v. | | | | | | | |
| | | | | | | | | | | Manadarus Promisi |
| ADDITIONAL | COMMENTS | : | | | | | | | | |
| | | | | | | | | | | |
| | | · | | | | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | | |
| | | | | | | | | | | |
| | | | | | | · | | | | |
| OTHER CHAR | GES: (i.e | e., pumpove | rs, overti | ime, parts, etc.) | | | | | | |
| | | | | | | | | | | |
| | | | | • | | | | | | |

-EVEL - INCHES FROM TANK BOTTOM TO TEST LEVEL

GPH - ABSOLUTE LEAK RATE (MEASURED LEAK RATE - TEMPERATURE COMPENSATION) IN GALLONS PER HOUR CONCLUSION - NFPA 329 STANDARD OF +0.05 GPH IS USED TO CERTIFY TIGHTNESS.

| | k,lon | tor | • | | | | | | | [DAT | _ Γ πε | ST | | | | |
|------------|---------------|----------|-------------------|-----------|----------------------|----------|----------|--------|-----------|-------------|-------------------|---------------|----------|-------------|----------|--------------------------|
| | * | ~· | | | | | | | | 201 | NTRACT | J . | 2 4 R | -83 | | |
| | TOMER | | | | | - | | | | | | | | | | **** |
| | 3 | | | CORP. | | | | | | | | | | | | |
| ٥٥ | ATION-IDENT | | | | 1148 | PY | | 1 | NAME | | | | | | | |
| <u>'</u> 2 | RESS | <u> </u> | | | V//X | /-/ | | 10 | ITY | <i>AUSK</i> | 2.1 | | ľ | STATE | iscon | 15 ,, |
| _ | | | | INST | ALLATI | ON AN | D TANK | DA | TA (SE | | | HEMAT | 10) | -00 | | 12/12 |
| Э. | SYSTEM | TAN | | IMAID KTI | TER | RIAL AG | E MAK | P 5 | CTION NO. | OF GRUS | VER | | TM | IK OPEN | GAUGES | OTHE |
| - | PRODUCT | NO. | | 00 , 44 | | (YEA | K5) | \neg | | | DIRT | 1 | - | 1 Renta | | |
| 5 | Fucloil | | 1 | | | | | 1 | 5 - | | | NO | | 311 | | ARRE |
| | | | + | | | | | | | | | 1 | | | | 5 |
| | | _ | | | - | | | T | | | - | T | | | | - |
| - | | \vdash | 1 | | _ | | _ | + | _ | _ | + | \vdash | | | | |
| Ц | | | 1 | | | | | 1 | | | | | | | | |
| RC | UND WATER | | סד אדי | WATER | TABLE | | | | _ INCHE | 5 | | | | _ | | |
| _ | WEATHER | | - | TIM | E | - | TEMP | ERA | TURE | BARO | METRIL | PRESSU | RE | - | COMMENT | 5 |
| _ | BEFORE TES | | - | | | \dashv | | | | - | | | | - | | |
| = | AFTER TES | <u> </u> | <u> </u> | FAT DE | 5111 76 | SIIMMAR | V _ DF7 | FALL | ED TEST | AUARTA | | | <u>-</u> | <u> </u> | | |
| 2 | SYSTEM | TEST | TEST | TII | 4E | LEAK | RATE | | TEMPERAT | | | OLUTE RATE | TEST | REMOTE LINE | CONCL | USION |
| - | PRODUCT | ×0. | LEVEL (INCHES) | START | BURATION HRE-MIN. | CE/DIV | CC/MIN | | Δ°F | | CC/MIN | GPH | York | PRESSURE | | , |
| 5 | Fuelou | - | 205 | 1203 | 31 | 6.598 | -21.280 | 1 | -0.013 | -19.825 | -1.456 | -0.01. | 3 Y | NA | 7/51 | 4 |
| _ | 1001011 | \vdash | | | | | | - | | | | | + | | | |
| | | \vdash | | | | | | | | | | | + | - | | |
| | | | | | | | | _ | | | | | + | | <u> </u> | |
| | | | | | | | | | | | | | 上 | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| F (| * WI | de | tap | rieg | 241 | 50 | 000 | 90 | I to | ruk | a | Sei | est | dlu | E | |
| 4 | n the | un | 2 des | an | The | 1 21 | cto | W. | line | 2 w | 110 | lese | we | dlu | | |
| Z | ak Lole | cal | orp | erce | unce | (5) | e Or | au | ring) | Pl | unh | er o | ru | dIu | an K | 95. |
| 2 | chfied | Kr | ofle | n lu | tigh | tenis | re do | W | x an | un | ion | F | lu | mbe | ر ما | 00- |
| *U | May 2000 | 1 d | Wester | elt l | ent | the | et h | 1 | CALL | ld s | 1/1/0 | 1- 0 | aer | + au | y pr | allu |
| 1 | rom th | is | RU | STen | e wi | hile | 24- | a | 20- | 2 | in ! | uses. | 7 | The | 11217 | _ |
| n | robable | 7 | chi | est. | ich | DILL | tone | 4 | 61 | 450- | Sustin | n L | in | tolin | 0 214 | 1/8 |
| EP | TIFICATION | | This | is to ce | rtiff th | at the | above d | estr | ibed +ar | nk syste | A STATE OF THE | | ed us | sing the | SUNM | ARK |
| | | | LEA | K LOH | ATOR. | Those | indicate | d as | s"tight" | meet + | he criti | eria es | +abli | shed by | the Nat | ional |
| _ | | TEST | | PYOTECT | | ociation | n Pamph | let | 329. | | CA | RTIFIE | N 2V | | | |
| :57 | T VAN NO TANK | - | ING SPEC | | | 1 | | SI | SNATURE | 10 | 1 | Z Z | | | DAT | |
| , | TANK | A11 | CV | TALIST | CVI | | | 7 | IME TH | 11/10 | 1 | 7 | | | | -24-8 |
| -1 | -8 | DE | 111 | | DNE | THE | | - | - TANK | - | | 175 | nn | MA | NAGE | 50 |
| Ξ | | _ | | | | | | | | | == | | _ | | | |
| 4 | LOKATOR OF | FICE | E LISE | ONLY | | | | | | | | | _ | | | |
| | | | | | | RAYEL | AND TE | ST | TIME | | | | | | | |
| | SPECIALIST | Τ | You | | TO SIT | E | | FROM | SITE | | TIME | | TAL | | COMMENT | 5 |
| 4 | ent | | / <u>x</u> | MILE | - | TIME /4 | MIL 5 | _ | 1/4 | | 11ME | | 1/2 | + | | |
| 3 | | _ | 17 | 5 | _ | 14 | 1 - | | | | 7 | | | + | | 54-17-01-10-1 |
| L | DNAM | <u></u> | + | 1-5 | -+ | 14 | 1 5 | | 1/4 | + | 6 | 10 | 1/2 | + | | |
| _ | | | - | | | | + | | - | - | | + | | | | |
| = | | | | | | BILLING | INFORM | JAT. | 0N | | | 1 | | | | |
| _ | | NG | CHARG | E | | - | SUPPLIED | PA | RTS | | וממא | TIONAL | CHA | ARGES | | TOTAL |
| AS | SYSTEMS | TAN | 20 PU | ER TE | SES TO | TAL NO. | ITEM | PRI | TOT | "AL | EXPLA | NATION | | | TOTAL | BILLING |
| | | | | | | | | | | | | | | | | |
| _ | | | - | - | | _ | | | _ | _ | | | | - | _ | |

.

PAGE 2 ak lokator 3-2**4** -83 T LOCATION DATA 3 M Coep STATE WISCOWSIN GYEYSTONE QUARRY WAUSAU SCHEMATIC conveyer Belt ROCK Pile "UNION where head was observed CHECKVAIVE 3" REMOTE Fill FLAME ARRESTER 2" GUAGE

| | | | | | | | | | | A | | | | | | |
|-----|----------|---------|-------|--------|-------|---------|----------|-------|--------------|--------------|--------|-------|--------------------|-----|---------|---|
| _ | 21122-11 | | | | | | | E DEI | LIVERY | DATA | | | N. 0.10.1 | · | | |
| | SYSTEM | | ļ | 705 05 | | PRODUCT | <u> </u> | | TRAP | | TAP OF | ANK | NUMBI | K 2 | <u></u> | DOOD |
| NO. | PRODUCT | OPENING | GRADE | RISER | LEVEL | GALLONS | • 6 | WATER | DROP TUBE | GRADE | RISER | LEVEL | PRODUCT GALLONS | °F | WATER | DROP TUBE |
| | Remot | e fill | | 238 | | | | | | | | | | | | |
| /5 | Fueloil | GAUGE | 204 | 207 | 114 | 43.780 | | 1" | No | | | | | | | |
| | | OTHER | | | | | | | | | | | -17- | | | |
| | | FILL | | | | | | | | | | | | | | |
| . = | • | BAUBE | | | | | | | | | | | | | | |
| ı | | OTHER | | | | | | | | | | | | | | - |
| | | FILL | | | | | | | | | | | | | | |
| | | GAUGE | | | | | | | | | | | | | | |
| | | OTHER | | | | | • | | | | | | | | | |
| | | FILL | | | | | | | | | | | | | | *************************************** |
| , | | GAUGE | | | | | | | | | | | | | | : |
| | | OTHER | | | | | | | | | | | | | | |

| ak loli | | TEST DA | ATA 4 | SHEET | | | 1)4°E | -3-24 | -83 | 745; ÷ |
|--|---|--|---|--|--|--|--|---|------------|---------------------|
| CUSTOMER | 3-M C | | | | | | | | | |
| TOCKTION-TO | Greysto | | 312 | ARRY | I ^c | TYω | AUSA | 79 | ETATE | 15 CONSIN |
| TYSTEM NUMB | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | P | RODU | 7 | rich oil | | <u>, - 33-33-10</u> |
| | | · | ΤE | ST NUMBER | XI. | | | | | |
| 1 | TIME | 1 | | TEMPERATURE | 00000 | <u> </u> | MEER | LOCA | | DROP TUBE |
| ART | 1203 | . 20 | | | | | 4 | 2" GUA | | No |
| END | 1234 | 20 | <u>y</u> | BALANCE AND | | # I | | 2" GUA | <u>ع د</u> | <u> </u> |
| TION | FLASU | ADDP | 576 | RRISER | | ac | 150 | ce/ROD | | |
| | , 2/1013 | ALKEL | 0121 | 2 | 3 | | 4 | 1,000 | 6 | AVERAGE |
| CC's ADDED (+) | R REMOVED | | | | | | | | | |
| ==RDER READIN | | | | ļ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | |
| | STOP | | | | · | | | | + | |
| THERAGE CC. 6 | DIVISIONS | <u> </u> | | <u> </u> | L | 1 | | | | |
| ## X9E CO \$ | PER DIVISION | | LEAK | RATE (LR) CAL | CULATIO | H | | | | |
| 444 | 12= = | A DIVISIO | | CALIBRATION | | | _ <u>_ c</u> | c in | OK (-) | |
| | | A MINUT | ا5 د | 150/22. | , DIA | 15 ION | ALIN | - 21,28 | (-) | |
| T | LK = T | 712 TEMP | ERATU | RE COMPENSAT | ON (TC) | CALCII | HCITAL | ~1160 | | |
| 51.500 | SYSTEM CAPACI | | | | | T | | | | |
| ∆°F 013 | | | | ,°F | | T | $C = \frac{\$7}{}$ | A TIME | = CC | - N OK SUT |
| | TIME OF TEM | | | | | 1 | | • | | |
| C: .0004694 | | | | | | 1 | C = | -19.82 | 1 . | |
| VE | GRAVITY 35/ | | | | 2. | | | 11.02 | r | |
| | | | | ABSCLUTE | | TE (A | LR) CALCU | HOITAL | | |
| | ABSOLU: | TE LEAK | RAT | E = -21. Z8 LEAK RATE | 1 | 9.8 | 324 | -1.92 | | |
| | | | | | | | | | • | |
| | | | | ~ 1 11.07 | | | | A. A. 3 | | |
| | • | • | | = -/ LUT | x 0.0 | 1585 | 2 * = - | O. O. Z. 3 AL / HOUR | | |
| IF ALR 75 | 0.05 GPH, A CHE | CK TEST W | /AS COI | | · | | | | 10N5 ON CH | ART) |
| | 0.05 GPH, A CHE DITIONS/INTERPI | | | HDUCTED WHICE | · | | | | 10N5 ON CH | ART) |
| SPECIAL CON | HITTONS / INTERP | RETATION/ | CONCLU | NDUCTED WHICH | H CONFIR | AS THE | ABOVE RE | SULTS (CALCULAT | 10NS ON CH | ART) |
| SPECIAL CON | | RETATION/ | CONCLU | NDUCTED WHICH | H CONFIR | | ABOVE RE | | 10NS ON CH | ART) |
| SFECIAL CON | HITTONS / INTERP | RETATION/ | C the G | NDUCTED WHICH | H CONFIRM | AS THE | ABOVE RE | SULTS (CALCULAT | | DROP TUBE |
| SPECIAL CON | pichiation during | this rest are | C the G | NDUCTED WHICH PSIONS' TECT NUM CARR'S ACTEST NUM CARR'S ACTEST NUM CARR'S TEMPERATURE | H CONFIRM | AS THE | ABOVE RE | EXTLOR | | |
| SFECIAL CON | pichiation during | this rest are | C the G | NDUCTED WHICH SIGNS TECT NUM SANG AS TEST NU TEMPERATURE BALANCE AND | H CONFIRMENT OF THE PROBE | AS THE | ABOVE RE | EXTLOR | | |
| SPECIAL CON | pichiation during | this rest are | C the G | NDUCTED WHICH PSIONS' TECT NUM CARR'S ACTEST NUM CARR'S ACTEST NUM CARR'S TEMPERATURE | H CONFIRMENT OF THE PROBE | AS THE | ABOVE RE | EXTLOR | | |
| SPECIAL CON | pichiation during | this rest are | C the G | TECT NUM ANY AG TEST NU TEMPERATURE BALANCE AND CALIBRATI | H CONFIRM THE 2 MPEL 1 PROBE SENSOR ON METH | AS THE | ABOVE RE- | EXPLANT LOCATE | DN C | PROP TUSE |
| SPECIAL CON | PICHASTION SHING | this rest are | C the G | NDUCTED WHICH SIGNS TECT NUM SANG AS TEST NU TEMPERATURE BALANCE AND | H CONFIRM | AS THE | ABOVE RE | EXTLOR | | PROP TUSE |
| SFECIAL CON | PICHASTIEN SUING | this rest are | C the G | TECT NUM ANY AG TEST NU TEMPERATURE BALANCE AND CALIBRATI | H CONFIRM THE 2 MPEL 1 PROBE SENSOR ON METH | AS THE | ABOVE RE- | EXPLANT LOCATE | DN C | PROP TUSE |
| SPECIAL CON Givens and cite RT C ADDED (+) 0 | PICHASTIEN SUING | this rest are | C the G | TECT NUM ANY AG TEST NU TEMPERATURE BALANCE AND CALIBRATI | H CONFIRM THE 2 MPEL 1 PROBE SENSOR ON METH | AS THE | ABOVE RE- | EXPLANT LOCATE | DN C | PROP TUSE |
| SPECIAL CON Sions and che RT C- AUDED (+) O RECORDER READIN | PICHASTIEN SATING TIME TIME R REMOVED 166 START STOP | this rest are | C the G | TECT NUM ANY AG TEST NU TEMPERATURE BALANCE AND CALIBRATI | H CONFIRM THE 2 MPEL 1 PROBE SENSOR ON METH | AS THE | ABOVE RE- | EXPLANT LOCATE | DN C | PROP TUSE |
| SPECIAL CON Giorg and cite RT C ADDED (+) O RECORDER READIN | PICHASTIEN SATING TIME TIME R REMOVED 166 START STOP | this rest are | c the c | TECT NUM ANX AG TEST NU TEMPERATURE BALANCE AND CALIBRATI | H CONFIRM THE TOTAL THE TO | Syes | ABOVE RE- | EXPLANT LOCATE | DN C | PROP TUSE |
| SPECIAL CON Sions and che RT C- AUDED (+) O RECORDER READIN | PICHISTIONS / INTERPT PICHISTION SUITE TIME R REMOVED 166 START 5TOP DIVISIONS PER DIVISION | this rest are | C the C | TECT NUM TECT NUM TEMPERATURE BALANCE AND CALIBRATI | H CONFIRM HER 1 PROBE SENSOR ON METH | DUN DOL | ABOVE RE | EXPLANT LOCATI | DN 6 | PROP TUSE |
| SPECIAL CON Sions and che RT C- AUDED (+) O RECORDER READIN | PICHASTIEN SATING TIME TIME R REMOVED 166 START STOP | this rest are | C the C | TECT NUM ANX AG TEST NU TEMPERATURE BALANCE AND CALIBRATI | H CONFIRM HER 1 PROBE SENSOR ON METH | Syes | ABOVE RE | EXPLANT LOCATE | DN C | PROP TUSE |
| SPECIAL CON Sions and che RT C- AUDED (+) O RECORDER READIN | PICHISTIONS / INTERPT PICHISTION SUITE TIME R REMOVED 166 START 5TOP DIVISIONS PER DIVISION | the rest are LEVEL LEVEL LEVEL A DIVISIO | LEAK NS X | TECT NUM ANY AG TEST NU TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CA | PROBE SENSOR ON METH COULATIO | NUN OC. | ABOVE REA | EXPLORATE LDCATE S LDCATE IN | GR OUT | PROP TUSE |
| SPECIAL CON SINCE AND CHE CHECORDER READIN AVERAGE CC'6 | PICHISTIZN SUTING PICHISTIZN SUTING TIME R REMOVED RES START STOP DIVISIONS PER DIVISION LR = LR = | the rest are LEVEL LEVEL LEVEL L LEVEL L L L L L L L | LEAK NS X | TECT NUM TECT NUM TEMPERATURE BALANCE AND CALIBRATI | PROBE SENSOR ON METH COULATIO | NUN OC. | ABOVE REA | EXPLORATE LDCATE S LDCATE IN | GR OUT | PROP TUSE |
| SPECIAL CON SINCE AND CHE CHECORDER READIN AVERAGE CC'6 | PICHAISTER SATING TIME TIME R REMOVED 166 START STOP DIVISIONS PER DIVISION LR = LR = | this rest are LEVEL LEVEL LEVEL LEVEL LEVEL TEMP TY, GALLOS | LEAK NS X | TECT NUM TECT NUM TECT NUM TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CA CALIBRATION CALIBRATION CALIBRATION | PROBE SENSOR ON METH COULATIO | NUN OC | ABOVE REAL PROPERTY AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION A | EXPLOR LDCATE | OR OUT | DROP TUBE |
| SPECIAL CON SINCE AND CHE CHECORDER READIN AVERAGE CC'6 | PICHISTIEN SUTING PICHISTIEN SUTING TIME R REMOVED RES START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM.CAPACI TEMPERATUR | LEVEL | LEAK X X E ERATU NS NTIAL | TECT NUM ANY AG TEST NU TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CA C CALIBRATION ORE COMPENSAT | PROBE SENSOR ON METH COULATIO | NUN OC | ABOVE REAL PROPERTY AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION A | EXPLORATE LDCATE S LDCATE IN | OR OUT | DROP TUBE |
| SPECIAL CON SINCE AND CHE CHECORDER READIN AVERAGE CC'6 | PICHISTIZN SUTING PICHISTIZN SUTING TIME R REMOVED RES START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACI TIME OF TEM | the rest are LEVEL | LEAK NS X ERATU | TECT NUM ANY AS TEST NU TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CA C CALIBRATION ORE COMPENSAT | PROBE SENSOR ON METH COULATIO | NUM OC. ISTON | ABOVE RE- | EXPLOR LDCATE | OR OUT | DROP TUBE |
| SPECIAL CON SINCE AND CHE CHECORDER READIN AVERAGE CC'6 | PICHISTIEN SUTING PICHISTIEN SUTING TIME R REMOVED RES START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM.CAPACI TEMPERATUR | LEVEL LE | LEAK NS X ERATURE REPORTED TO THE CONTRACT OF | TECT NUM TECT NUM TECT NUM TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CA CALIBRATION | PROBE SENSOR ON METH COULATIO | NUM OC. ISTON | ABOVE REAL PROPERTY AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION A | EXPLOR LDCATE | OR OUT | DROP TUBE |
| SPECIAL CON SINCE AND CHE CHECORDER READIN AVERAGE CC'6 | PICHISTIZN SUTING PICHISTIZN SUTING TIME R REMOVED RES START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACI TIME OF TEM | LEVEL LE | LEAK NS X ERATURE REPORTED TO THE CONTRACT OF | TECT NUM ANY AG TEST NU TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CA C CALIBRATION (CALIBRATION (CALIBRATI | PROBE SENSOR ON METH COULATION TON (TC) | NUM OC. CALCUITION | ABOVE RE- | EXPLANT LDCATI LDCATI S C IN NUTE (+) | OR OUT | DROP TUBE |
| SPECIAL CON SINCE AND CHE CHECORDER READIN AVERAGE CC'6 | PICHISTIZN SUTING PICHISTIZN SUTING TIME R REMOVED RES START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACI TIME OF TEM GRAVITY | TEMP TY, GALLOS E DIFFEREN P. DIFFEREN TEMP TY | LEAK NS X ERATU NS NTIAL NTIAL NTIAL NTIAL NTIAL NTIAL NTIAL NAPER | TECT NUM TECT NUM TECT NUM TEMPERATURE BALANCE AND CALIBRATION CALIBRATICAL CALIBRATICAL CALIBRATION CALIBRATICAL CALIBRATION | PROBE SENSOR ON METH COULATION TON (TC) | NUM OC. CALCUITION | ABOVE RE- | EXPLANT LDCATI LDCATI S C IN NUTE (+) | OR OUT | DROP TUBE |
| SPECIAL CON SINCE AND CHE CHECORDER READIN AVERAGE CC'6 | PICHISTIZN SUTING PICHISTIZN SUTING TIME R REMOVED RES START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACI TIME OF TEM GRAVITY | LEVEL LE | LEAK NS X ERATU NS NTIAL NTIAL NTIAL NTIAL NTIAL NTIAL NTIAL NAPER | RATE (LR) CA CALIBRATION RATE COMPENSATION CALIBRATION | PROBE SENSOR ON METH 3 LCULATIO 1, DIV | NUN CALCU | ABOVE RE- | EXPLANT LDCATI LDCATI S C IN NUTE (+) | OR OUT | DROP TUBE |
| SPECIAL CON SINCE AND CHE CHECORDER READIN AVERAGE CC'6 | PICHISTIZN SUTING PICHISTIZN SUTING TIME R REMOVED RES START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACI TIME OF TEM GRAVITY | TEMP TY, GALLOS E DIFFEREN P. DIFFEREN TEMP TY | LEAK NS X ERATU NS NTIAL NTIAL NTIAL NTIAL NTIAL NTIAL NTIAL NAPER | TECT NUM ANY AG TEST NU TEMPERATURE BALANCE AND CALIBRATION CALIBRATION CALIBRATION CRE COMPENSAT ,°F ABSOLUTI E = LEAK RATE | PROBE SENSOR ON METH COULATION TON (TC) | NUM OC ISION TO THE COMMENT OF THE COMME | ABOVE RE- | EXPLANT EXPLANT LDCATI S C IN NUTE (+) 85 GT CE A F A TIME LATION = CC/MIN | OR OUT | DROP TUBE |
| SPECIAL CON SPECIAL CON SIGNA AND CHE C- AUDED (+) O RECORDER READIN AVERAGE CC'6 | PICHISTIZN SUTING PICHISTIZN SUTING TIME R REMOVED RES START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACI TIME OF TEM GRAVITY | TEMP TY, GALLOS E DIFFERE P. DIFFERE TE LEAK | LEAK NS X ERATU NS NTIAL NITIAL NON 1/2 APER | TECT NUM TECT NUM TECT NUM TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CA CALIBRATION CRE COMPENSAT OF ATURE, *F ABSOLUTI E = CC/MIN | PROBE SENSOR ON METH 13 LCULATIO 1, DIV | NUM CALCU TATE 11 15 95 52 | ABOVE REAL TOP AND A STATE OF THE STATE OF T | EXPLORE LATION BS GT CE A "F A TIME LATION CC/MIN | OR OUT | IN OR OUT |

* to MINUTES / HOTE

4UH- 41345-5

```
GUSTEMER 5 42

TO NO 150 25

DATE 830324:

TEST LEVEL 205.

REDUCTS SUCI OIL

THE START
  THE SLART
1203.
  ABSOLUTE LEAK RATE
  EAK RATE
 CALIBRATIONS
26.3
           20.
            23.
          21.25
           24.
          22.9
AVG. ::
        22.908
CC'S +OR-=
       150.000
CC'S DIV. =
         6.548
*DIV=
       -39.000
_CM=
        12.000
CM/MIN=
        1.000
L. R. ==
      -21.280
TEMP. COMP.
CE=
0.0004694
GAL. =
51500.
TEMP 0:013
TIME 80
CANY FACTE 8
  -19.825
ALR(CC*SZMIN.)=
(1.456)
 RLR (GPH) =
   -0.023
```

FUE OIL

CUSTUMER 3-M

ID NO

DATE

830323.

PRODUCT

O.

COEFF OF EXPANSION

OBS. TEMP.

42.

OBS. API.

35.6

| | er teen | | |
|--------|---------|---|---|
| | # _ # \ | 4 | 7 |
| eak, | OHE | m | |
| | | | |
| (IIII) | 2000 | | |
| * | | | |
| | - | | |

| | | <u>• </u> | | 36 | | | | [| DV | TE - | > 5 | | | |
|-------------|-----------|---|------------|----------|--------|-------------|-----------|------|------|---|--------------------|---------------|----------|--|
| TEM D | ATA SHE | ET | | | | | * | | _ | ======================================= | >-2 | 4-83 | | |
| | 3 M | | | | | | | | | | | | | |
| LOCATION - | Grey | 1570NO | 0 | PUAR | er | WA | USAU | | | | ı | STATE | CO | WS/W |
| STEM NO | MBER 15 | - • | PRO | FU | cl | 011 | | T | | | . I ONE | | _ | The second of th |
| | CRD: | 33 SECTION | AL AF | LEA DE | KIDE | כא. | | | | | LLONS | | ON 7 | TANK NUMBER 2 |
| SIZE | CC/INCH | NUMBER | | /INCH | | UMBER | MBER 2 | н | | | MINAL | 5000 | | |
| + INCH | 208 | | | | | | 1 | | | FROM | ART | 51500 | 2 | |
| 3 INCH | 120 | | 1 | | | | | - | 4 | | STATIO | N | | |
| INCH | 54 | | 1 | | | | | | ı | | TANK | MANUFACTUR | RER | |
| K INCH | 35 | | | | | | | | | K | COMPAN | Y ENGINEER | ING | DATA |
| 70 | TAL | | | | - | | | | ı | | LEAK | LOKATOR CH | HART | 5 |
| TO | TAL CC, | INCH = . | | | | | | | | | OTHER | - | | |
| TO | TAL GAL | LONS/INC | H = . | | | | | 7. | | | | | | |
| | | LOCATION (| | DELIVE | RY / | AND TE | ST LEVE | LI | AC | TA | DEADUCT | TEMPERATURE | | |
| NK 1 | | EUCATION ! | TANI | 42 | | | | 1 | | · rocit | PRODUCT. | 1 EM ERRI DRE | • | |
| - | | TIME | - | MUMBI | | | TES | I, | | ME | ACCUSED NAMED OF | GALLONS | | |
| The same of | | TIME | | GALLO | | NC | 1162 | | 1 11 | ALE. | LEAST | GALLONS | | NOTES |
| BEFORE D | ELIVERY | | 114 | 4378 | | | | _ | _ | | | | | |
| PLUS DE | LIVERY | | | 772 | 20 | | | | | | | | | |
| | | | | 51,5 | 20 | | | | | | | | | |
| | | | | 07,0 | | | | | | | | | | |
| | | | | | | | | _ | | | | | _ | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | \vdash | |
| | | | | | - | | | - | | | - | | _ | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| err o | 250121710 | N FOR TE | - (| /u. : | | | h | | | | <u> </u> | | | |
| | | | | (1715 2 | SSUM | - | | | 521 | | | | onditi | ions during test |
| | /SUBMERS | | EPTH | 1,,,,,, | | - | X SUCTI | | _ | (HE | IGHT _ | | Leuran | |
| HELK VA | | STRAINE REMOVED | K | IMPACT | SED | VE | CHECK V | | ٤ | 1 | | RAINER | שטנו | TON CONNECTION |
| | 15 | ᅼ՝ | | ITT CLO | G-IN | | | | _ | L | IN PL | | | UNION |
| IN PLACE | F | IN PLACE | | سم لـــا | G - OL |)T | EXTRAC | MOVE | | | REMOV | ED & | | COUPLING |
| REMOVE | . F | REPLACED | | | | | = | PLAC | | 15 | → REPLA 図 OTHER | | | OPEN WITH FOIL |
| OTHER | , L | OTHER | | | | | OTHER A | | | - 1- | _ | | 1 | IN PLACE OTHER 7/ANS |
| J DINEK | | | | 1 | | | ANGIE | | | | | RIER IN | _ | . HEN |
| | | | _ | <u></u> | LAD | 00 054 | | | | 44. | Build | | | |
| 1 NO 1 | YES, DES | ARIBE (AT RI | GHT) | | _ | OR REL | | CON1 | חם | TIONS | DES | | | |
| STAGE | 1 TYPE | | | | | | | | | | | | | |
| | 2 TYPE | | | | | | | | | | | | | |
| PLUGS | RISER | S OTHE | R | | | | | | | | | | | |
| | | PRESSI | JRE T | EST R | ESU | LTS (F | REMOTE /S | UBN | ME | RSIB | LE SYS | TEMS ONL | /) | |
| me of te | ST START | | | PRESSU | RE A | APPLIED / | Ά | | | - | ENGTH | OF TIME HE | LD | |
| RESULTS / | COMMENTS | | | | | | <u> </u> | | | | | 1 | | |
| | | | | | | | | | | | | | | |

SIN LEAK LOKATOR, 1945 WALNUT STREET, PHILADELPHIA, PA 19107 (215) 072-6111

SUMMARY OF TEST RESULTS

| LOCATION: | Graystone Quarry | DATE: March 23, | , 1983 C | USTOMER: | 3M | |
|-----------|-------------------|-----------------|----------|----------|----|--|
| LL8 | Wausau, Wisconsin | COPIES TO: R. S | Siegel | | | |

FINAL REPORT

| | TANK | SIZE | · | | | LOKATOR R | ESULTS* | |
|-----------------|---------|--------------------|-----------------|---------------------------------|-----------------|-----------|------------|----------------------------|
| SYSTEM | GALLONS | DIAMETER INCHES | WATER INCHES | PUMP DISCHARGE PRESSURE TEST | LEVEL INCHES | GPH | CONCLUSION | COMMENTS - RECOMMENDATIONS |
| #11 Gasoline | 1000 | 48 | ¹ á | N/A | 82 | -0.007 | Tight | |
| #12 erosene | 500 | 48 | 2 | N/A | 82 | -0.004 | Tight | |
| #13 Diesel | 3500 | 72 | 1 | N/A | 102 | -0.042 | Tight | |
| #14 Diesel | 3500 | 72 | 1 | N/A | 107 | -0.016 | Tight | |

| ADDITIONAL O | MMENTS: | | | | | | | | | | |
|---------------|----------|--------------|-----------|-------------|-------|-----|------|-------------|-----------------------------------|-------|--|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | - 111 - 122 - 122 - 12 | | |
| | | | | | | | | | | | |
| OTHER CHARGES | S: (i.e. | . numpovers. | overtime. | parts. | etc.) | | | | | | |
| | (4.0. | , pamporozo, | , | par oo, | | | | | | | |
| | ····· | | | | | · . | | | | · | |

GPH - ABSOLUTE LEAK RATE (MEASURED LEAK RATE - TEMPERATURE COMPENSATION) IN GALLONS PER HOUR CONCLUSION - NFPA 329 STANDARD OF +0.05 GPH IS USED TO CERTIFY TIGHTNESS.

| | · · · | | | | | | | | | | | | [DAT | ₹ TE | 4 T | | | | |
|------------|------------|-------------|---------|-------------------|------------|--------|----------|-------------------------|----------|------------|--------------------|----------|---------|--|------------------|--------|-----------------|-------------|-----------------|
| 3 a | k lol | hul | OI | 1 | | | | | | | | | | 3 - | 23 | - 8 | 3 | | |
| FST | SUM | AMA | RY | DAT | A | | | | | | | | CON | TRACT | NUMBER | | | | |
| | TOMER | 2 | | <u> </u> | - | | | | | | | | | | | | | | |
| Loc | ATION - | DENT | IFICI | ATION | NUMB | R | | | | | NAME | | | | | | | | |
| 1 | 6 | | | TOP | | | <u> </u> | NAG | RY | ' | • | | | | | | | | |
| ADD | RESS | 1 | | | | | | | | ۱ | LITY | 14 | USA | 7, 1 | | ľ | STATE | 4001 | USIN |
| | | | _ | | IN | STAL | LATIC | N AN | | | ATA (| SEE | | TION SC | HEMATI | | | | |
| NO. | SYSTE | 0.000 | TAN | | | METER | MATERIA | APPI | EMA | KE SU | SYSTEM ICTION N | O. OF | CO | VER | VAPOR E | TM | NK OPEN | GAUGE | SOTHER |
| - | PRODI | UCT | NO. | 100 | ONS (IN | CHES) | Stee | (YEA | KS) | RE | PATENO | KIR | 81" | 4 | | | Z// | - GAUGE | - OIMER |
| <u> </u> | GASO | line | | 100 | | | 210 | 1 10 | SHI | | 5 | 1 | 0. | DIRT | No | | | | |
| 17 | 1/000 | | 1 | 500 | 2 4 | 18 | (| 1 | \prod | | 1 | 1 | 18 | 7 5 | 1 | = | 2" | = | |
| | | | 1 | 350 | 17 | 2 | 7 | + | ,+; | + | 7+ | | 110 | +5 |) | - | 3" | +_ | - |
| 3 | DICSO | d | | | | | 3 | \Box | 1/ | 1 | 51 | 1 | | | SE | | | | |
| 14 | Die | 105 | 1 | 35- | 7 | 2 | | $\downarrow \downarrow$ | 17 | | 5 | 1 | 110 | 1:} | (F | = | 3 | | 3/4 Ven |
| 520 | | | <u></u> | | | | | <u> </u> | | | 7 | | | 1/ | 131 | | | | |
| KC | שא פאטכ | | | ידו דט | | | BLE _ | | | _ | _ INC | HES | | | | | | | |
| | WEAT | | | | Т | IME | | + | TEM | PERA | TURE | | BARDI | METRIL | PRESSU | RE | - | COMMEN | T5 |
| _ | BEFORE | | | - | | | | - | | | | | | | | | ļ., | | |
| | AFTER | TEST | | <u> </u> | - | | | | | | - | | | | | | <u> </u> | | <u></u> |
| - | SYSTE | u | TEST | TEST | | RESUL | _T\$ SI | LEAK | RATE | TAIL | TEMPER | ATUR | HARTS | ATTACE | OLUTE RATE | CHECH | K REMOTE | T | |
| NO. | PRODU | | NO. | LEVEL (INCHES) | CLOCK | | ATION C | CC/DIV | CC/MI | | | | C/MIN | CC/MIN | GPH | Y or N | | CONC | LUSION |
| | 1 | | 1 | 82 | 090 | | - | 2.381 | 1-13 | | ,03 | | | 1.593 | -0.007 | Ty | NA | TI | skt. |
| - | GAS | dive | | _ | | 1 | | | - | + | | + | -/- | | | 1 | - | 1 |) 101 |
| | | - | , | 82 | 111 | 14 | 10 0 | 0.482 | -0-ZZ | ٦, | .003 | +, | 048 | -0 777 | -0.004 | + | 1.1/4 | 17.6 | -14 |
| | Keros | MAP | - | 92 | 1049 | + | 0 | 1.402 | -0.20 | 1/ | .000 | 1. | 048 | -0.273 | -0.007 | + | NI | 1/2 | W. |
| 1 | 14.4, | 10.0 | Н | | <u> </u> | 4 | - | | 0.4 | + | <u> </u> | + | | | | ـ | ,, | | |
| ,, | 1.25 | ./ | 1 | 102 | 091 | 5 2 | 5 | 2.829 | 2.84 | 7/ | .00 | 35 | 521 | -2.672 | -0.042 | y | NA | TIS | Lt. |
| 13 | Dieso | | | | | | | | | | | | | | | | | | |
| | 0 | , | 1 | 107 | 131 | 2 3 | 33 | 3.077 | -5.3 | 77 / | -,04 | 57- | 4.5% | -1.001 | -0.016 | Y | N/A | TI | cht_ |
| 1 | Dies | 13 | | | | T | | | | 1 | | T | | | | | | 1 | 9 |
| GTHE | R INFSEVAY | CON | | | | | | | | | | | | | , | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| _ | | | | | | | | | | | | | | | | | | | |
| L, | L CONTRAL" | *** / /.1 | J10 | 1 / | | | | 21110 | | | - | | | - | | | | | |
| | COMTENT | 225,0- | | -> | MEH P.C. | 4636~ | TATIVES | PRESEN. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | • | • |
| | TIFICAT | LION | | This | is to | certif | fy tha | + the | above | descr | ribed | rank | system | ms wer | e teste | d us | sing the | SUNI | MARK |
| | | | | LEA | AK L | OKAT | OR.T | Those | indicate | ed as | s tight | m | eet H | ne crite | eria est | abli | shed by | y the Na | itional |
| | | | | Fire | Prote | ction | Asso | | n Pamp | | | | | | | | | | |
| | VAN NO | TANK | EST | S CON | AULTE! | D BY | | | | - 5 | CHATURE | _ | | CE | RTIFIED | BY | | | ATE |
| | VAN NO | 4 | 1% | ITE | 0 | V | 10 | T | _ | | 5 | The | SH | // | 1 | | | | 3-23-8 |
| 122 | 1-8 | TANK T | FEST | NG SPE | CALIST | | | | | 7 | ITWE | III | ane. | The same of the sa | TITLE | | | | |
| Ţ., | , | 4 | OK | IN | <i>F</i> . | De | 201 | 9M | Æ | 士 | \geq | W.O | 166 | N | Tel | 9M | MX | NAC | OFP_ |
| - | | <u> </u> | _ | | | _ | | | <u> </u> | - | | _ | | | | | | | _= - |
| AX | LOKATO | R OF | FICE | USE | ONLY | | | | | | | | | | | | | | |
| | | | | | | | | | T GUA | The second | CHICAGO CONTRACTOR | | | | | _ | | | |
| _ | SPECIA | LIST | • | You | | TO | SITE | TIME | - W | FROM | - | IME | | ON SITE | To | TAL | | COMMEN | 175 |
| 1 | ENT | | | 74 | - | | _ | 1/4 | | L.S | _ | _ | - | Three | | 2 | + | | |
| - | | | | _ | | | | | 5 | | | | | Comment (M.) | | _ | | | |
| - | ONAI | タシル | | 4 | 10 | | +- | 14 | 1 3 | | 1/4 | <u> </u> | + | 7hrs | 111 | 12 | + | | · · |
| | | | | - | - | | | | | | - | | - | | - | | - | | |
| <u></u> | | | | | | | | | | | | | \perp | | · <u> </u> | | | | |
| Т | | ESTI | NG | CHAR | GF | | BI | ILLING | SUPPLIE | | ARTS | | _ | 10017 | TIONAL | 244 | DC-FG | | TOTAL |
| | A) | DD. | ADI | AS 0 | | LINE | TOTA | | | UN | T T | OTAL | + | | NATION | | | TOTAL | BILLING |
| | | | | | | | | T | | T | | | 1 | | | | | | |
| 1 | 1 | 1 | | | 1 | | | 1 | | | | | | | - | | | 1 | $\mathbf{\Psi}$ |

EST LOCATION DATA

BATE 3-23-83

DATE 3-23-83

CATION-ID.

GREY STONE QUARRY WAUSAU

SCHEMATIC

Bldg

| These (We Kaye o | 9 |
|-----------------------------------|-----------------------|
| 9 | |
| Korosesk | |
| Saggel 48 Sled | 1 Diesel |
| Gasoline 1000 gal 48" Steel | 3500 gal 72" 5tcel |

| Ī | = | | | | | | | | E DEI | LIVERY | DATA | | | | | | |
|----|-----------|----------|---------|----------|-----------------|--------|----------|----------|-------|--------------|-------|--------|-------|--------------------|----|-------|--------------|
| Ţ | _ | SYSTEM | | | | | K NUMBE | R 1 | | | | | | NUMBE | | | |
| L | NO. | PRODUCT | OPENING | GRADE | TOP OF RISER | LEVEL | GALLONS | ** | WATER | DROP TUBE | GRADE | TOP OF | LEVEL | PRODUCT GALLONS | 96 | WATER | DROP TUBE |
| | _ | | FILL | 81 | 83 | Full | 1034 | | 1/4" | 0 | | | | | | | |
| | 11 | GASOLINE | GAUGE | | | | | | | | | | | | | | |
| | <u> </u> | | OTHER | _ | | | 7 | | | | | | ' | | | | |
| | - | <u>'</u> | FILL | 78 | 83. | Full | 500 | | 2" | 0 | | | | | | | |
| | A | Kerosene | GAUSE | ' | _ | | 1 | | | | | | | | | | <u>.</u> |
| 3 | | | OTHER | | | | | | | | | | | | | | |
| | | À | FILL | 110 | 114 | ונטידן | 3500 | | 1" | 0 | | | | | | | |
| | 10 | Diesel | GAUGE | | | | | <u> </u> | | | | | | | | | |
| | L | | OTHER | | | | | | | | | | | | | | |
| | | | FILL | <u> </u> | | | | | | | | | | | | | |
| | | | BAUGE | | | | <u> </u> | | | | | | | | | | |
| दा | L | -/095-I | DTHER | | | 1 | | | | | | | | | | | |

| LOCATION-I | | EJI DAIA | SHEET | | - 11 | 3-23 | | |
|-------------------------------|--|---|--|--|---|--|-------------|-------------|
| LOCATION-I | 3-M | | | | | | | |
| | Grey 57 | DNC G | MARRI | 1 CITY | NAVSI | 90 | LTATE (L | 1,5. |
| SYSTEM NUM | BER // | | | PRODL | GA | soline | | |
| | | T | EST NUMBER | | | | | |
| ART | 0913 | 82 | TEMPERATURE | | MEER FCK | FILL | IDN | DROP TUBE |
| D. | | 82 | BALANCE AND | | 1 | Citt | | 1100 |
| | 1030 | 00 | CALIBRATION | | | F111 | | NO |
| ATION | 1=111 | | | METHOD | 25 | Tec Roll |) | |
| | | | 2 | 3 | 4 | 5 | 6 | AVERAGE |
| & ADDED (+) | OR REMOVED | | | | | | | |
| ORDER READ! | NGS START STOP | | | | | - | - | |
| Δ | DIVISIONS | | | | | | | |
| | PER DIVISION | | | | | | | |
| | | LEAK | RATE (LR) CAL | LCUL ATION | | | | |
| | LR = = | A MINUTE | X CALIBRATION | DIVISION | - = - CC | TE (+) 0 | K (-) | |
| | LR = 5. | 5/15 | x 25/10.12 | 5 | = 0,9 | | | |
| | | TEMPERAT | URE COMPENSAT | | | | | |
| | SYSTEM CAPACITY | , GALLONS | | | 57 9.5 | GT CE A "F | cc | IN SIT |
| .037 | _ ± TEMPERATURE | DIFFERENTIAL | _,°F | | rc = — | TIME = | MINUTE | (+) OF (-) |
| ME 60 | TIME OF TEMP. | | | | | | | |
| .006599 | _ COEFFICIENT OF | | | | rc = 1.5 | 172 | | |
| | GRAVITY 53 | _ TEMPER | ATURE, of 3 | 8° | | | | |
| | | | | LEAK TATE (| | | | |
| | ABSOLUTE | LEAK RAT | TE = 0.9053 LEAK RATE | TEMP. CO. | MPENSATION | = -0.6867 | | |
| | | * | = -0.6867 | | | | | |
| | | | | V 010120 | | 1 | | |
| | 4.05 0.00 4.0000 | . 71.07 111.0 00 | | | | - / // | | |
| | 0.05 GPH, A CHECK | | NDUCTED WHICH | | | - / // | ONS ON CHAR | r) |
| | | | NDUCTED WHICH | H CONFIRMS TH | | - / // | ONS ON CHAR | r) |
| SPECIAL CON | | TATION/CONCL | NDUCTED WHICH | H CONFIRMS TH | E ABOVE RESU | LTS (CALCULATIO | DNS ON CHAR | 1) |
| SPECIAL CON | INTIONS / INTERPRE | TATION/CONCL | USIONS | H CONFIRMS TH | E ABOVE RESU | EXTING | | |
| SPECIAL CON | C PICCHISTION SURING TH | TATION/CONCL | USIONS | H CONFIRMS TH | E ABOVE RESU | LTS (CALCULATIO | | DROP TUSE |
| SPECIAL CON | C PICCHISTION SURING TH | TATION/CONCL | DEST NUM | EER 2 MEEL 1 DYE PROBE | E ABOVE RESU | EXTING | | |
| SPECIAL CON | C PICCHISTION SURING TH | TATION/CONCL | DINDUCTED WHICH USIONS TEST NUM SOON OF TEST NUM TEMPERATURE | H CONFIRMS THEER 2 MEER 1 THEER 1 THE | E ABOVE RESU | EXTING | | |
| ART | C PICCHISTION SURING TH | TATION/CONCL | TECT NUM CANT AC TEST NU TEMPERATURE BALANCE AND CALIBRATI | H CONFIRMS THE | E ABOVE RESU | EXTING | | |
| ART | TIME | TATION/CONCL | TECT NUM CONSTRUCTED WHICH TECT NUM CONTROL OF TEST HU TEMPERATURE BALANCE AND | H CONFIRMS THEER 2 MEER 1 THEER 1 THE | E ABOVE RESU | EXTING | | |
| ART | TIME | TATION/CONCL | TECT NUM CANT AC TEST NU TEMPERATURE BALANCE AND CALIBRATI | H CONFIRMS THE | E ABOVE RESI | EXPLOSE LOCATION | N | DROP TUSE |
| ART ADDED (4) (| TIME | TATION/CONCL | TECT NUM CANT AC TEST NU TEMPERATURE BALANCE AND CALIBRATI | H CONFIRMS THE | E ABOVE RESI | EXPLOSE LOCATION | N | DROP TUSE |
| ART ADDED (+) (| TIME TIME OR REMOYED | TATION/CONCL | TECT NUM CANT AC TEST NU TEMPERATURE BALANCE AND CALIBRATI | H CONFIRMS THE | E ABOVE RESI | EXPLOSE LOCATION | N | DROP TUSE |
| ADDED (+) | TIME OR REMOYED NGS START | TATION/CONCL | TECT NUM CANT AC TEST NU TEMPERATURE BALANCE AND CALIBRATI | H CONFIRMS THE | E ABOVE RESI | EXPLOSE LOCATION | N | DROP TUSE |
| ADDED (+) | TIME TIME OR REMOYED NGS START STOP DIVISIONS PER DIVISION | LEVEL | TECT NUM CAN ACTEST NU TEMPERATURE BALANCE AND CALIBRATI | PROBE SENSOR ON METHOD 3 LCULATION | E ABOVE RESI | LOCATION 5 | N (c | DROP TUSE |
| ADDED (+) | TIME TIME OR REMOYED NGS START STOP DIVISIONS PER DIVISION | LEVEL | TECT NUM CAN ACTEST NU TEMPERATURE BALANCE AND CALIBRATI | PROBE SENSOR ON METHOD 3 LCULATION | E ABOVE RESI | LOCATION 5 | N | DROP TUSE |
| ANDED (+) | PER DIVISION | LEVEL | TECT NUM GAN: 46 TEST NU TEMPERATURE BALANCE AND CALIBRATI | PROBE SENSOR ON METHOD 3 LCULATION | E ABOVE RESI | LOCATION 5 | N & | DROP TUSE |
| ADDED (+) | TIME TIME OR REMOYED NGS START STOP DIVISIONS PER DIVISION | LEVEL LEAK DIVISIONS A MINUTE | TECT NUM CAN ACTEST NU TEMPERATURE BALANCE AND CALIBRATI | PROBE SENSOR ON METHOL 3 LCULATION CC DIVISION | E ABOVE RESU | LOCATION 5 | N & | DROP TUSE |
| ADDED (+) CORDER READING | PER DIVISION | LEVEL LEAK DIVISIONS A MINUTE TEMPERATI | TECT NUM GAN: 46 TEST NU TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CALIBRATION | PROBE SENSOR ON METHOD A LCULATION CC DIVISION | E ABOVE RESU | LOCATION LOCATION 5 IN (+) | DR OUT | DROP TUBE |
| ANDED (+) CORDER READING | OR REMOVED NOS START STOP DIVISIONS PER DIVISION LR = ± 4 | LEAK A DIVISIONS A MINUTE TEMPERATI Y, GALLONS | TECT NUM GAN. 46 TEST NU TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CAI X CALIBRATION URE COMPENSAT | PROBE SENSOR ON METHOD A LCULATION CC DIVISION | E ABOVE RESU | LOCATION 5 | DR OUT | DROP TUBE |
| ART ADDED (+) (ORDER READIN | DR REMOVED NGG GTART STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACITY TIME OF TEMP. | LEVEL LEVEL LEAK DIVISIONS A MINUTE TEMPERATI Y, GALLONS DIFFERENTIAL | TECT NUM CAN ACTEST NU TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CAL X CALIBRATION URE COMPENSAT | PROBE SENSOR ON METHOD A CC DIVISION TON (TC) CALC | E ABOVE RESU | LOCATION LOCATION 5 IN (+) | DR OUT | DROP TUBE |
| ART ADDED (+) (ORDER READIN | DR REMOVED NGS START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACITY TIME | LEVEL LEVEL LEAK DIVISIONS A MINUTE TEMPERATI Y, GALLONS DIFFERENTIAL | TECT NUM CAN ACTEST NU TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CAL X CALIBRATION URE COMPENSAT | PROBE SENSOR ON METHOD A CC DIVISION TON (TC) CALC | E ABOVE RESU | LOCATION LOCATION 5 IN (+) | DR OUT | DROP TUBE |
| ANDED (+) (CORDER READING | DR REMOVED NGG GTART STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACITY TIME OF TEMP. | LEVEL LEVEL LEVEL LEVEL LEVEL LEVEL LEAK DIVISIONS A MINUTE TEMPERATI Y, GALLONS DIFFERENTIAL DIFFERENTIAL EXPANSION | TECT NUM CAN ACTEST NU TEMPERATURE BALANCE AND CALIBRATI 2 CRATE (LR) CAI X CALIBRATION URE COMPENSAT L, *F L, MINUTES | PROBE SENSOR ON METHOD A LCULATION CC DIVISION TON (TC) CALC | E ABOVE RESU | LOCATION LOCATION S IN JTE (+) | DR OUT | DROP TUBE |
| ANDED (+) (CORDER READING | TIME TIME OR REMOVED NOS START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACITY TIME OF TEMP. COEFFICIENT OF GRAVITY | LEVEL LEVEL LEVEL LEVEL LEVEL LEVEL LEVEL LEAK DIVISIONS A MINUTE TEMPERATI Y, GALLONS DIFFERENTIA EXPANSION TEMPER | TECT NUM GAN. 46 TEST NU TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CAI X CALIBRATION URE COMPENSAT L, *F L, MINUTES V*F RATURE, *F ABSOLUTE | PROBE SENSOR ON METHOD A LCULATION CC DIVISION TON (TC) CALC | E ABOVE RESI | LOCATION EXPLINE LOCATION S IN ITE (+) S TIME | DR OUT | DROP TUBE |
| SPECIAL COM | TIME TIME OR REMOVED NOS START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACITY TIME OF TEMP. COEFFICIENT OF GRAVITY | LEVEL LEVEL LEVEL LEVEL LEVEL LEVEL LEVEL LEAK DIVISIONS A MINUTE TEMPERATI Y, GALLONS DIFFERENTIA EXPANSION TEMPER | TECT NUM GAN. 46 TEST NU TEMPERATURE BALANCE AND CALIBRATI 2 RATE (LR) CAI X CALIBRATION URE COMPENSAT L, *F L, MINUTES V*F RATURE, *F ABSOLUTE | PROBE SENSOR ON METHOD A LCULATION CC DIVISION TON (TC) CALC | E ABOVE RESI | LOCATION EXPLINE LOCATION S IN ITE (+) S TIME | DR OUT | DROP TUBE |
| SPECIAL COM | TIME TIME OR REMOVED NOS START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACITY TIME OF TEMP. COEFFICIENT OF GRAVITY | LEVEL LEVEL LEVEL LEVEL LEVEL LEVEL LEVEL LEAK DIVISIONS A MINUTE TEMPERATI Y, GALLONS DIFFERENTIA EXPANSION TEMPER | TECT NUM TECT NUM GAN. 46 TEST NU TEMPERATURE BALANCE AND CALIBRATI 2 CALIBRATION URE COMPENSAT L, *F L, MINUTES V*F RATURE, *F ABSOLUTE E = LEAK RATE | PROBE SENSOR ON METHOD A LCULATION CC DIVISION TEMP CM | E ABOVE RESI | LOCATION LOCATION LOCATION S GT CF A "F A TIME | DR OUT | DROP TUBE |
| ANDED (+) CORDER READING | TIME TIME OR REMOVED NOS START STOP DIVISIONS PER DIVISION LR = LR = SYSTEM CAPACITY TIME OF TEMP. COEFFICIENT OF GRAVITY | LEAK RAT | TECT NUM Gan. as TEST NU Gan. as TEST NU TEMPERATURE BALANCE AND CALIBRATI 2 CALIBRATION URE COMPENSAT L, *F L, MINUTES V*F RATURE, *F LBAK RATE CC/MIN | PROBE SENSOR ON METHOL CC DIVISION TEME CAM X 0.01585 | E ABOVE RESI E D nc , MBER A ULATION TC = AIR) CLICUL TENSATION 2* = GAL | LDCATION S GT CE A F ATION CC/MIN THOUR | OR OUT | AVER-GE |

```
CUSTOMER 0. 3
TD NO
830323.
TEST LEVEL
PRODUCT 3.
TIME START 955.
 ABSULUTE LEAK RATE
LEAK RATE
CALIBRATIONS
        16.5
         9.5
         10.
AVG. =
      10.500
CC'S +OR-=
      25.000
CC'S. DIV. =
       2.381
"BIV»
      11.000
"CM=
      23.000
CM/MUN=
      1.000
L. R. ::
       1.139
TEMP. COMP.
CE=
  0.0006599
GAL. ::
       1034.
_TEMP
       0.037
ATIME
60.
CONV. FACT=
3785.
T. C. =
      1.593
ALR(CC 'S/MIN.) =
      -0.454
```

ALR (GPH) =

-0.007

```
CUSTOMER JOHN O. DATE 830323.
PRODUCT 3.

COEFF OF EXPANSION

OBS. TEMP. 38.
```

OBS. API. 53.

CDEFF. = 0.0006599

77

.

eak lokator DATE 3-23-83 ISTEM DATA SHEET LUSTOMER 3 - M STATE GreySTONE QUARRY WAUSAU Wis YSTEM NUMBER CAPACITY GASOLINE GALLONS TANK NUMBER 1 TANK NUMBER 2 CROSS SECTIONAL AREA OF RISERS NOMINAL TANK NUMBER 1 TANK NUMBER 2 1000 CC/INCH SIZE NUMBER CC/INCH CC/INCH CHART 1034 4 INCH 208 BOM STATION 3 INCH 120 2 INCH TANK MANUFACTURER COMPANY ENGINEERING DATA 15 INCH 35 LEAK LOKATOR CHARTS TOTAL OTHER TOTAL CC/INCH = TOTAL GALLONS/INCH = DELIVERY AND TEST LEVEL TRUCK PRODUCT TEMPERATURE LOCATION OF READINGS ANK 1 TANK 2 TANK NUMBER 1 TANK NUMBER 2 LEVEL GALLONS NOTES TIME LEVEL GALLONS BEFORE DELIVERY Full 1030 PLUS DELIVERY SITE PREPARATION FOR TEST 1 (It is assumed that the conditions described in part 6 are the conditions during test 1) REMOTE / SUBMERSIBLE (DEPTH K SUCTION (HEIGHT _ CHECK YALVE STRAINER IMPACT VALVE CHECK VALVE STRAINER SUCTION CONNECTION PLUG - IN REMOVED REMOVED X BURIED REMOVED KUNION LLOSED IN PLACE IN PLACE IN PLACE EXTRACTABLE COUPLING REPLACED & REMOVED & CLOSED REMOVED OPEN WITH FOIL REPLACED IN PLACE OTHER OTHER _ Y IN PLACE OTHER OTHER OTHER_ VAPOR RELOVERY NO YES, DESCRIBE (AT RIGHT) THER CONDITIONS (DESCRIBE) STAGE 1 TYPE STAGE 2 TYPE RISERS OTHER PRESSURE TEST RESULTS (REMOTE / SUBMERSIBLE SYSTEMS ONLY)

PRESSURE APPLICA

NA

LENGTH OF TIME HELD

A ME OF TEST START ESULTS / COMMENTS

SPECIAL CONDITIONS / INTERPRETATION / CONCLUSIONS

CUSTOMER O. ED NO DATE 830323. TEST LEVEL PRODUCT 82. TIME START 1049. ABSULUTE LEAK RATE LEAK RATE CALIBRATIONS 51.5 53.75 51.5 51.5 51. 52. AVG. ≈ 51.875-CC'S +OR-= 25.000 cc's/DIV. = 0.482 "DI∀∺ -7.000 "CM= 15.000 CM/MIN= 1.000 L. R. = -0.225 TEMP. COMP. CE= 0.0005099 GAL. = 500. _TEMP 0.003 TIME CONV. FACT= 3785. 60. T. C. = 0. 048 ALR (CC:S/MIN.) =

-0.273

-0.004

ALR (GPH) = - in-

CUSTRIMER 3.M

O.

DATE

830323.

PRODUCT

O.

COEFF OF EXPENSION

OBS. TFMP.

35.

OBS. API.

42.

COEFF. =

0.0005099

| ak lo | kator |] | | | | | | <u> </u> | | | | PAGE 3 |
|------------|--------------|---------------|-----------------|--------------|-----------|---------------|--|-------------|---------|-------------|--------|---|
| TEM I | DATA SHE | ĒŤ | | | | | | ATE | 3 . 2 | 3-8 | 3 | |
| ISTOMER | 3- | | | | | | | | | | | |
| LOCATION - | | | | · - | LITY | 1. | | | | STATE | | |
| STEM NO | Svey 9 | 57008 | , PRO | UARRI | 11 0 | UAUSAI | <u>, </u> | | | CAPACITY | 5. | |
| | 12 | | 1 | Ke | Vosca | <u>je</u> | | GA | LLONS | | | TANK NUMBER |
| | CC/INCH | S SECTION | | | - | UMBER 2 | - | NO | MINAL | 500 | | |
| SIZE | | NUMBER | CC | /INCH | NUMBER | CC/INC | H | CHI | ART | 500 | | |
| INCH | 208 | | - | | | | ┥. | FROM | STATIO | | | <u> </u> |
| 3 INCH | 120 | | - | | | - | - 4 | | | MANUFACTU! | | |
| 4 INCH | 35 | | + | | | - | - | | | Y ENGINEER | | DATA |
| | OTAL | | +- | | | | - | | | LOKATOR CI | | |
| | TAL CC | /INČH - | | | | | - | | OTHER | | ואאו | 3 |
| 1 | TAL GAL | | 4 = | | | | \dashv | | | • | | - |
| - | | | | DELIVERY | AND T | EST LEVE | L D | ATA | | | | |
| NK 1 | | LOCATION C | FREA | DINGS | | | TANK | TRUCK | PRODUCT | TEMPERATURE | | |
| NA 1 | | | TANK | NUMBER | 1 | | | | TA | NK NUMB | ER | 2 |
| | | TIME | NIES CONTRACTOR | GALLONS | 5 N | IOTES | TI | ME | LEYEL | GALLONS | | NOTES |
| SEFORE 1 | ELIVERY | | Full | 500 | | | | | | | | |
| PLUS DE | ELIVERY | | | | | | | | | | | |
| | | | | | 1 | | | | | | | |
| | | | | | | | - | | | | _ | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | + | | - | | | | | |
| | | | | | - | | - | | | | _ | |
| | | | | | | | | | | a. | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 1 | 2250121212 | 500 750 | = , | <u> </u> | ٠ | | <u></u> | | | | | |
| | PREPARATIO | | | (It is assi | umed that | | | | | - | ondi+i | ions during test |
| | E / SUBMERSI | | PTH . | Divisi - | | ✓ SUCTI | | (HE) | GHT _ | | | .) |
| REMOVE | | T REMOVED | ^ | IMPACT V | <i>D</i> | CHECK V | | | ST! | RAINER | SUCT | MUNION |
| IN PLACE | 1= | IN PLACE | | PLUG- | - IN | BURIED EXTRAC | | |] IN PL | | | COUPLING |
| CLOSED | - | REMOVED & | | PWG- | TUO | 1 | MOVE | - | REMOV | | | OPEN WITH FOIL |
| REMOVE: | | OTHER | | | | | PLACE | - | OTHER | | = | IN PLACE |
| OTHER | | 4 5 | | | | OTHER_ | | ٦ | | ` | | OTHER |
| DIHER | | - | | | | | | _ - | | | | |
| | | | | | APOR REI | OVERY | | | | | | |
| NO | YES, DES | LRIBE (AT RIC | SHT) | | NON NE | | COND | TIONS | (DES | CRIBE) | | |
| STAGE | 1 TYPE | | - | | | | | | | | | |
| | | | | | | | | | | | | |
| STAGE | 2 TYPE _ | | | | | | | | | | | *************************************** |
| PLUGS | RISER | 5 OTHE | R | | | | | | | | | |
| THE AL TH | ST START | PRESSU | RE T | EST RES | ULTS (| REMOTE / | SUBME | RSIBL | E SYS | TEMS ONLY | () | |
| | | | | PRESSURE | NA | 1 | | | -NGIH | OF TIME, HE | ΓŊ | |
| | COMMENTS | | , | V | 7 | | | | | 7 | | |
| 7 | | | | | | | | | | | | |

SPECIAL CONDITIONS / INTERPRETATION / CONCLUSIONS

CUSTUMER 34 DATE 830323. TEST LEVEL PRODUCT 102. JIME START 945. ABSULUTE LEAK RATE LEAK RATE CALIBRATIONS 29.5 32.5 29.5 28. 30. AVG. :: 30.167 CC'S +OR-= 25.000 CC'S DIV. = 0.829 ..DIV:: 55.000 _CM= 16.000 CM/MIN= 1.000 L. R. :: 2.849 TEMP. COMP. 0.0004718 GAL. :: 3500. *TEMP 0.053 TIME. 60. CONV.FACT=4 T. C. = 5. 521 ALR (CC'S/MIN.) =

-2.672

-0.042

ALR (GPH) =

DIESOF

CUSTUMER 3-M

ID NUI

DATE

830323.

PRODUCT

O.

COEFF OF EXPANSION

OBS. TEMP.

39.

OBS. API.

36.

COEFF. =

0.0004718

DATE TEM DATA SHEET ISTOMER WAUSAU QUARRY GreysTone WISCONSIA Diesc TANK NUMBER 1 TANK NUMBER 2 GALLONS CROSS SECTIONAL AREA OF RISERS NOMINAL 3500 TANK NUMBER 1 TANK NUMBER 2 SIZE CC/INCH NUMBER CC/INCH NUMBER CC/INCH CHART 3500 F INCH 208 ROM STATION 3 INCH 120 TANK MANUFACTURER INCH 54 K COMPANY ENGINEERING DATA K INCH 35 LEAK LOKATOR CHARTS TOTAL OTHER TOTAL CC/INCH = TOTAL GALLONS/INCH = DELIVERY AND TEST LEVEL ATAC LOCATION OF READINGS NK 1 TANK 2 TANK NUMBER 1 TANK NUMBER 2 TIME LEVEL GALLONS NOTES TIME LEYEL GALLONS NOTES Full FORE DELIVERY 3500 PLUS DELIVERY (It is assumed that the conditions described in part 6 are the conditions during test !) SITE PREPARATION FOR TEST 1 SUCTION (HEIGHT __ REMOTE / SUBMERSIBLE DEPTH ELK YALVE STRAINER IMPACT VALVE CHECK VALVE STRAINER SUCTION CONNECTION CLOSED PLUG-IN REMOVED REMOVED BURIED REMOVED MOIND LLOSED PLUG - OUT IN PLACE IN PLACE EXTRACTABLE IN PLACE COUPLING REPLACED & REPLACED REMOVED CLOSED OPEN WITH FOIL REPLACED X IN PLACE IN PLACE OTHER OTHER _ OTHER OTHER OTHER_ VAPOR RELOVERY YES, DESCRIBE (AT RIGHT) OTHER CONDITIONS (DESCRIBE) STAGE 1 TYPE STAGE 2 TYPE PLUGS RISERS OTHER OF TEST START ULTS / COMMENTS

| - | la: | ole loleo | | | | | | | | | | | | | | | |
|---|----------|-------------------|-----------------|--------------|--|-------------|----------|-------|--------|--------------|---------------------------------------|-------------|-------|-----------------------------|-------------|-------|------|
| | | ak loka | | .: | | | | | | | DATE | | | | | | |
| [| E5 | T LOCAT | I NOI | ATAC | | | | | | | | 3 | . 2 | <u>3 ·83</u> | } ` | | |
| 1 | Щ | TOMES. | 3- | M | | | | | ,CITY | | | | | STATE | | | |
| _ | | TOMER ATION - ID. | reys | TOR | 10 | <u> ۵</u> ر | MARR | 4 | 1 | VAUS | AU | | | 10 | UIS | , | |
| | | | | | | | | SCHE | MATIC | | | | | | 7 | | |
|) | | | DIRT | ROAD | | | <u> </u> | 1,11 | piesel | ocal sice | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | D | Canar | | | |
| | | | // | | | , | H |) 11 | | | | * | ` | | | | |
| = | | | | | | | В | EFORE | DEI | IVERY : | DATA | | | | | | |
| | | SYSTEM | | | TOP OF | | NUMBE | R 1 | | DROP | | TOP OF | ANK | NUMBE PRODUCT GALLONS | R 2 | | DROP |
| | NO. | PRODUCT | OPENING FILL | GRADE | | LEVEL | GALLONS | 38 | WATER | TUBE | GRADE | RISER | FEAST | GALLONS | *F | WATER | TUBE |
| | 111 | Nincel | SAUGE | 170 | 117 | 107 | | | | No | | | | | | | |
| | 14 | Diesel | | | | | | | | | | | | | | | |
| | | | OTHER | | | | | | | | | | | | | | |
| | | | FILL | | | | | | | | | | | | | | |
| | | · | BAUGE | | - | | | | | | | | | | | | |
| 3 | | | OTHER | | | | | | | | | | | | | | |
| | | | FILL | | | | | | | | | | | | | | |
| | | | GAUGE | | | | | | | | | | | | | | |
| | | | OTHER | | | | | | | | | | | | | | |
| | \vdash | | FILL | | | | | | | | | | | | | | |
| | | | GAUGE | | | <u> </u> | | | | , | | | | | | | |
| | | | OTHER | | | | | | | | | | | | | | |

| Part, II | | TEST DATA | SHFFT | | Prac | _3 - 2 3 | -83 | |
|-----------|--|-------------------|-------------------|----------------|--|-------------------|-------------|------------|
| LUSTOMER | 3M. | | | | | | <u> </u> | |
| LOCATION | -I.D. FRPUS | TONE (| DUADRE | / CITY | WAU | SAI | STATE | 114 |
| YSTEM N | | 4 | 201190 | PRODL | | rescl | 1 00 | 75. |
| | | | EST NUMBER | a. 1 | | rea, | | |
| | TIME | 1 | | | MEER | LOCAT | | DROP TURE |
| RT | 1312 | 1.0.7 | TEMPERATURE | 1,40. | ٥ | 3" 7111 | | No |
| | 1345 | 106.5 | BALANCE AND | 1 17/ | , | 11 | | No |
| ATION | | 2/11/1/2 | CALIBRATION | METHOD | | | | |
| | | 3/4" Ven | 7 2 | 3 | .5 | Dalson | 1 6 | AVERAGE |
| ADDED (| +) OR REMOVED | | 1 | | | | - 6 | AAE 114- |
| ORDER REA | ADINGS START | | | | | | | |
| | STOP | | · | | | | | |
| | A DIVISIONS | | | | | | | |
| RAGE CO | 'S PER DIVISION | | | - | | | | |
| - | | LEAK | RATE (LR) CA | LCUL ATION | | C IV | OUT | |
| | | A MINUTE | X CALIBRATION | DIVISION | | | K (-) | |
| | LR = | -29/16 | x 5%16 | . 250 | = - | 5.576 | | |
| | | TEMPERAT | URE COMPENSAT | ION (TC) CALC | HCITALU | | | |
| 3500 | | | | | 57 | SS GT CE A F | cc | IN OF CUT |
| -0.04 | TEMPERATUR | | | | TC = - | A TIME | BTUNIM | (+) (-) |
| ME GO | | | | | | | | |
| .00064 | COEFFICIENT | | | 1 | TC = | -6.418 | | |
| | GRAVITY 33 | TEMPER | ATURE, of 3 | 90 | | | | - |
| | | | | LEAK TATE (| | | | |
| | AB50LU | TE LEAK RAT | E = -5.576 | 6. | 418 HDENSATIO | 0.84Z | | |
| | | | = 0.842 CC/MIN | | | | | |
| | | | | | | | | |
| | 7 1 0.05 GPH, A CHE | | | H CONFIRMS TH | E ABOVE RE | SULTS (CALCULATIO | ONS ON CHAS | RT) |
| SF ECIT.L | COMPANIONS / INTERP | RETATIONS CONCL | | Grf 2 | | | - VIII- | |
| isses and | Cite preparation during | this rest are the | TEST NUM | | E Dnc | Explain | | |
| | | | | | | | | |
| ART | TIME | LEVEL | TEMPERATURE | | MEER | LOCATIO | ν | DROP TUBE |
| | | | BALANCE AND | | | | | - |
| | | | CALIBRATI | | | | | 1 |
| AT.1. TA | | | CALIBRATI | METHOS | | | | |
| | | 1 | 2 | 1 3 | 4 | 5 | 1 6 | AVER- SE |
| VANED (| +) OR REMOVED | | | | | | | |
| PUER KE | ADINGS START | | | | | | | |
| | STOP . | | | | | | | |
| | A DIVISIONS | - ! | | <u> </u> | | | | |
| AGE CC | '6 PER DIVISION | | | | | | | |
| | | | RATE (LR) CA | | | | OUT | |
| | . LR = | A MINUTE | X CALIBRATION | DIVISIO | N = WI | NUTE (+) | R (-) | |
| | LR = | | | | | | | |
| | | TEMPERAT | URE COMPENSAT | TON (TC) CALC | ULATION | | | |
| | - SYSTEM CAPACI | | | | 67 | 185 GT CE A .F | ** | IN - OUI |
| | ± TEMPERATUR | E DIFFERENTIAL | L,°F | | TC = - | A TIME | = MINUTE | (+) OR (-) |
| IME | TIME OF TEM | P. DIFFERENTIA | L, MINUTES | | | | | |
| | COEFFICIENT | OF EXPANSION | /•F | | TC = | | | |
| × | GRAVITY | TEMPER | ATURE, "F | | | | | |
| | | | | E LEAK TATE | | | | |
| | ABSOLU | TE LEAK RAT | E = | TENE /21 | ITENS AT 10 11 | = ((/m)) | | |
| | | | E LEAK HAIE | V A A | 2 # - | CC/MIN | | |
| • | | | | | , r - | | | |
| 4 | Name and Address of the Address of t | | | X 0.01585 | | | | |
| | 7 5 0.05 GPH, A CHE | | NDUCTED WHICH | | | | 45 ON CHART | 1) |
| | 7 1 0.05 GPH, A CHE CONDITIONS / INTERP | RETATION / CONCL | NDUCTED WHICH | A CONFIRMS THE | ABOVE RES | ULTS (CALCULATIO) | 45 GN CHART | 1) |

.

.,

```
CUSTOMER
ชักTE
830323.
TEST LEVEL
 PRODUCT
TIME START
1312.
ABSULUTE LEAK RATE
LEAK RATE
CALIBRATIONS
         18.
         17.
         16.
        15.
14.5
AVG. =
      16.250
CC'S +OR-=
      50.000
CC'S/DIV. = 3.077
"DIV≔
     -29.000
LCM=
      16.000
CM/MCN=
       1.000
L. R. =
      -5.577
TEMP. COMP.
CE=
   0.0004606
GAL. ≔
     3500.
_TEMP
 -0. 045
ATIME
       3785
T. C. =
    -4.576
ALR(CC'S/MIN.)=
    -1.001
ALR (GPH) =
      -0.016
```

```
CUSTOMER 3.
ID NOS
DATE 830323.
PRODUČŤ
 COEFF OF EXPANSION
    OBS. TEMP.
         39:
      OBS. API.
         33.
      COEFF. =
   0.0004606
```



| | ATA SHE | ĒŤ | | | | | | F | DA | TE | 3 - 2 | 3-8 | 3 | |
|--|----------|------------|--------|-----------|-------------|---------|--|------------------|-------|------|-------------------------|-------------|----------|-----------------------|
| USTOMER | 3-X | 1 | | | | | | | | | , | | | |
| LOCATION - | Grevi | 570NE | 0 | 200 | الم | TY / | DAVE | B | _ | , . | | STATE | | |
| STEM NO | MBER , | 11 . | PROI | DUCT ; | 7.0 | | n | 7 | 4 | | | CAPACITY | | |
| | CRD: | S SECTION | AL. AF | REA DF | RISER | 5 | | - | | GA | LLONS | TANK NUMB | SER 1 | TANK NUMBER 2 |
| SIZE | CC/INCH | TANK NE | MBER | 1 | TAN | NK NU | MBER 2 | | | NO | MINAL | 350 | 0 | |
| + INCH | 208 | NUMBER | 1 00 | /INCH | Nui | MBER | CC/INC | H | - | | ART | 300 | 0 | |
| 3 INCH | 120 | - | + | | | | | \dashv_{ι} | 4 | FROM | STATIO | N | | |
| 2 INCH | 54 | | + | | | - | | \dashv | | | TANK | MANUFACTUR | RER | |
| K INCH | 35 | | + | | | | | \dashv | 1 | X | COMPAN | Y ENGINEER | ING | DATA |
| TO | TAL | | \top | | | | | ٦ | | | LEAK ! | DKATOR CH | ART | 2 |
| TO | TAL CC, | INCH = | | | | | - | \exists | | | OTHER | | | |
| TO | TAL GAL | LONS/INC | H = . | | | | | - | | | -1 | | | |
| | | LOCATION C | | | RY AN | ID TE | ST LEVE | | | TA | PRODUCT | TEMPERATURE | | |
| NK 1 | | | TANK | 12 | | | | | | | | | | |
| | | TIME | | GALLO | | NO | STES | - | TIN | ME | | GALLONS | | NOTES |
| BEFORE D | ELIVERY | | | 350 | | | | | | | | | | |
| D. 410 D. | | | ווערו | 230 | <u> </u> | | | - | - | | | | | |
| PLUS DE | LIVERY | | | | - | | | _ | _ | | - | | | |
| 1 | | , | | | | | - | | | | | | | |
| | | | | | | | | | | | | | | |
| _ | | | | | | | | | | | | | | |
| | | | | | \dashv | | | | - | | | - | | |
| | | | | | - | | | | _ | | - | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| The same of the same | | | | | \top | | | | | | | | | |
| | | | - | | + | | | - | - | | | | - | |
| | | | | | ᆚ | | | | _ | | | | <u> </u> | |
| | | | | | sumed | | CONTRACT OF THE PARTY OF THE PA | | 541 | - | | | onditio | ons during test 1) |
| | /SUBMERS | | EPTH | | | - | צובדונ | | | (HE | GHT _ | | |) |
| CHECK VA | | STRAINE | R | IMPACT | | E | CHECK W | | E | - | | RAINER | שנחנ | ON CONNECTION |
| IN PLACE | 1= | REMOVED | | الله الله | G-IN SED | . | BURIED EXTRACT | | _ | L | REMO | | | MINION |
| CLOSED | F | IN PLACE | | PIU0 | - OUT | | | MOVE | | | IN PL | | <u></u> | COUPLING |
| REMOVES | . | OTHER | | | | | | PLAC | | | REMOV REPLA OTHER | | | PEN WITH FOIL N PLACE |
| OTHER | . | | | | | | OTHER | | _ | 1 | | | | THER |
| | | ****** | | | | | | | | - - | | | | |
| | VAPOR RE | | | | | | OVERY | | | = | | | _ | |
| NO YES, DESCRIBE (AT RIGHT) | | | | | | OTHER (| CONT | חם | TIONS | (DES | KIBE) | | | |
| STAGE 1 TYPE | | | | | | | | | _ | | | | | |
| _ | | | | | | - | | | _ | | | ** | | |
| STAGE 2 TYPE | | | | | | | | | | | | | | |
| PLUGS RISERS OTHER PRESSURE TEST RESULTS (R | | | | | | - | | _ | | | | | | |
| ME OF TE | ST START | PRESSU | RE T | PRESSU | | | REMOTE /SI | NBN | ME | | | OF TIME HE | | |
| RESULTS / | COMMENTS | | | <u> </u> | |) /£ | 7 | | | | | N/A | | |
| | | | | _ | | | | | | | | / | | - |
| | | | | | | | | | | | | | | |

Huntingdon Engineering & Environmental, Inc.

555 South 72nd Avenue (54401) Post Office Box 1817 Wausau, Wisconsin 54402-1817

(715) 845-4100 Fax: (715) 842-0381

REPORT OF: CHEMICAL ANALYSES

PROJECT:

3M - WAUSAU, GREYSTONE

A094-565

WAUSAU, WISCONSIN

DATE: November 16, 1994

REPORTED TO:

Delta Environmental Consultants, Inc.

Attn: Mr. Craig Johnson

3900 Northwoods Drive, Suite 200

St. Paui, MN 55112

PROJECT NO: 8105-95-0019

INTRODUCTION

This report presents the results of the analyses of 15 samples received on November 4, 1994, from Mr. Jared Otto of Delta Environmental Consultants, Inc. The scope of our service was limited to the parameters listed in the attached tables.

METHODOLOGY

Analyses are performed according to Huntingdon Engineering & Environmental, Inc. (Huntingdon) Standard Operating Procedures. The procedures are based on the references stated in the analytical results tables.

RESULTS

The results are listed in the attached tables.

REMARKS

The samples were collected on November 1, 2, and 3, 1994. If samples are not consumed in the analysis, they will be held until their designated expiration date, and then disposed, unless written instructions to the contrary are received. PAH samples were forwarded to St. Paul laboratory for analysis. PAH results will be sent under separate cover.

HUNTINGDON ENGINEERING & ENVIRONMENTAL, INC.

Wisconsin Laboratory Certification #737105930

Richard A. Abreu

Chemist

Vennis J. Vaigle
Dennis J. Daigle

Wausau Chemistry Manager

RAA/DJD/tcl

PROJECT NO: 8105-95-0019 DATE: November 16, 1994

PAGE: 2

DIESEL RANGE ORGANICS ANALYSIS RESULTS

WISCONSIN MODIFIED DRO

(All values are in mg/Kg which is equivalent to parts-per-million)
(All results are reported on a dry weight basis.)

| Client Sample ID: | Base-South | Base-Center | Base-North | |
|---------------------------------------|------------|-------------|------------|--|
| LAB SAMPLE ID: | 2643 | 2644 | 2645 | |
| Parameter: | | | | Practical <u>Ouantitation Limit</u> |
| Diesel Range Organics (par #78919) | ND , | ND | BQL | 10 |
| Surrogate Recovery: | | | | |
| Triacontane: | 92% | 94% | 94% | |
| Percent Moisture: | 9.3% | 8.5% | 25% | |
| Date Collected: | 11/1/94 | 11/1/94 | 11/1/94 | en e |
| Date Received: | 11/4/94 | 11/4/94 | 11/4/94 | |
| Date Preserved: | 11/4/94 | 11/4/94 | 11/4/94 | |
| Date Extracted: | 11/7/94 | 11/7/94 | 11/7/94 | |
| Date Analyzed: | 11/8/94 | 11/8/94 | 11/8/94 | |

ND = Not Detected

N/A = Not Applicable

BQL = Below Quantitation Limit

Reference: EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition.

Wisconsin Department of Natural Resources, PUBL-SW-141, July 1993.

PROJECT NO: 8105-95-0019
DATE: November 16, 1994

PAGE: 3

DIESEL RANGE ORGANICS ANALYSIS RESULTS

WISCONSIN MODIFIED DRO

(All values are in mg/Kg which is equivalent to parts-per-million)
(All results are reported on a dry weight basis.)

| Client Sample ID: | Grey-Pipe 1 | Grey-Pipe 2 | Grey-Pipe 3 | |
|---------------------------------------|-------------|-------------|-------------|-------------------------------------|
| LAB SAMPLE ID: | 2646 | 2647 | 2648 | |
| Parameter: | | | | Practical <u>Quantitation Limit</u> |
| Diesel Range Organics (par #78919) | ND ** | BQL | BQL | 10 |
| Surrogate Recovery: | | | | |
| Triacontane: | 89% | 81% | 93% | |
| Percent Moisture: | 11% | 11% | 11% | |
| Date Collected: | 11/2/94 | 11/2/94 | 11/2/94 | |
| Date Received: | 11/4/94 | 11/4/94 | 11/4/94 | |
| Date Preserved: | 11/4/94 | 11/4/94 | 11/4/94 | |
| Date Extracted: | 11/7/94 | 11/7/94 | 11/7/94 | |
| Date Analyzed: | 11/8/94 | 11/8/94 | 11/8/94 | |

ND = Not Detected

N/A = Not Applicable

BQL = Below Quantitation Limit

Reference: EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition.

Wisconsin Department of Natural Resources, PUBL-SW-141, July 1993.

PROJECT NO: 8105-95-0019 DATE: November 16, 1994

PAGE: 4

DIESEL RANGE ORGANICS ANALYSIS RESULTS WISCONSIN MODIFIED DRO

(All values are in mg/Kg which is equivalent to parts-per-million) (All results are reported on a dry weight basis.)

| Client Sample ID: | Grey-Pipe 4 | Grey-Pipe 5 | Stockpile 1 ¹ | |
|---------------------------------------|----------------|-------------|--------------------------|--|
| LAB SAMPLE ID: | 2649 | 2650 | 2651 | |
| Parameter: | | | | Practical Quantitation Limit |
| Diesel Range Organics (par #78919) | BQL | ND | 6600 | 10 (600) ¹ |
| Surrogate Recovery: | . - | | | |
| Triacontane: | 96% | 91% | N/A¹ | |
| Percent Moisture: | 13% | 13% | 11% | |
| Date Collected: | 11/2/94 | 11/3/94 | 11/3/94 | unterpritation des l'income alle autre contra l'income au transfer de l'action |
| Date Received: | 11/4/94 | 11/4/94 | 11/4/94 | |
| Date Preserved: | 11/4/94 | 11/4/94 | 11/4/94 | |
| Date Extracted: | 11/7/94 | 11/7/94 | 11/7/94 | |
| Date Analyzed: | 11/8/94 | 11/8/94 | 11/9/94 | |

ND = Not Detected

N/A = Not Applicable

BQL = Below Quantitation Limit

Reference: EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition.

Wisconsin Department of Natural Resources, PUBL-SW-141, July 1993.

¹ Sample "Stockpile 1" was analyzed at a 1:60 dilution. As a result, surrogate data was not available.

PROJECT NO: 8105-95-0019 DATE: November 16, 1994

PAGE: 5

DIESEL RANGE ORGANICS ANALYSIS RESULTS

WISCONSIN MODIFIED DRO

(All values are in mg/Kg which is equivalent to parts-per-million)
(All results are reported on a dry weight basis.)

| Client Sample ID: | Stockpile 21 | Base-SE | Base-SW | enderen er |
|---------------------------------------|--------------|---------|---------|-------------------------------|
| LAB SAMPLE ID: | 2652 | 2653 | 2654 | |
| Parameter: | | | | Practical Ouantitation Limit |
| Diesel Range Organics (par #78919) | 8700 | ND | ND | 10 (750)¹ |
| Surrogate Recovery: | | | | |
| Triacontane: | N/A¹ | 93% | 90% | |
| Percent Moisture: | 11% | 6.8% | 6.0% | |
| Date Collected: | 11/3/94 | 11/3/94 | 11/3/94 | |
| Date Received: | 11/4/94 | 11/4/94 | 11/4/94 | |
| Date Preserved: | 11/4/94 | 11/4/94 | 11/4/94 | |
| Date Extracted: | 11/7/94 | 11/7/94 | 11/7/94 | |
| Date Analyzed: | 11/9/94 | 11/8/94 | 11/8/94 | |

ND = Not Detected

N/A = Not Applicable

BQL = Below Quantitation Limit

Reference: EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition.

Wisconsin Department of Natural Resources, PUBL-SW-141, July 1993.

¹ Sample "Stockpile 2" was analyzed at a 1:75 dilution. As a result, surrogate data was not available.

PROJECT NO: 8105-95-0019 DATE: November 16, 1994

PAGE: 6

DIESEL RANGE ORGANICS ANALYSIS RESULTS WISCONSIN MODIFIED DRO

(All values are in mg/Kg which is equivalent to parts-per-million)
(All results are reported on a dry weight basis.)

| Client Sample ID: | Sidewall-West | Sidewall-South | Sidewall-East | |
|---------------------------------------|---------------|----------------|---------------|-------------------------------------|
| LAB SAMPLE ID: | 2655 | 2656 | 2657 | |
| Parameter: | | | | Practical <u>Quantitation Limit</u> |
| Diesel Range Organics (par #78919) | ND | ND | ND | 10 |
| Surrogate Recovery: | | | • | |
| Triacontane: | 94% | 94% | 88% | |
| Percent Moisture: | 7.3% | 5.6% | 6.9% | |
| Date Collected: | 11/3/94 | 11/3/94 | 11/3/94 | |
| Date Received: | 11/4/94 | 11/4/94 | 11/4/94 | |
| Date Preserved: | 11/4/94 | 11/4/94 | 11/4/94 | |
| Date Extracted: | 11/7/94 | 11/7/94 | 11/7/94 | |
| Date Analyzed: | 11/9/94 | 11/9/94 | 11/9/94 | |

ND = Not DetectedN/A = Not Applicable

BQL = Below Quantitation Limit

Reference: EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition.

Wisconsin Department of Natural Resources, PUBL-SW-141, July 1993. Wisconsin Department of Natural Resources, PUBL-SW-142, April 1992.

PROJECT NO: 8105-95-0019
DATE: November 16, 1994

PAGE: 7

DIESEL RANGE ORGANICS ANALYSIS RESULTS

WISCONSIN MODIFIED DRO

(All values are in mg/Kg which is equivalent to parts-per-million)
(All results are reported on a dry weight basis.)

Client Sample ID:

LAB SAMPLE ID:

Method Blank Q94C6325

Parameter:

Diesel Range ND 10
Organics (par #78919)
Surrogate Recovery:

Triacontane:

85%

Percent Moisture:

N/A

Date Collected:

N/A

Date Received:

N/A

Date Preserved:

N/A

Date Extracted:

11/7/94

Date Analyzed:

11/8/94

ND = Not Detected

N/A = Not Applicable

BQL = Below Quantitation Limit

Reference:

EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition.

Wisconsin Department of Natural Resources, PUBL-SW-141, July 1993. Wisconsin Department of Natural Resources, PUBL-SW-142, April 1992.

PROJECT NO: 8105-95-0019 DATE: November 16, 1994

PAGE: 8

QUALITY CONTROL DIESEL RANGE ORGANICS ANALYSIS RESULTS

WISCONSIN MODIFIED DRO (All values are in percent recovery)

| LAB SAMPLE ID: | Spike Q94BB422 | Replicate Spike Q94BBF66 | |
|---------------------------------------|----------------|-----------------------------|---------------------------------|
| Parameter Recovery: | | | WDNR Acceptance <u>Criteria</u> |
| Diesel Range Organics (par #78919) | 93% | 93% | 80-120% |
| Surrogate Recovery: | | | |
| Triacontane: | 104% | 105% | |
| Date Extracted: | 11/6/94 | 11/6/94 | |
| Date Analyzed: | 11/8/94 | 11/8/94 | |

N/A = Not Applicable

Reference: EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition.

Wisconsin Department of Natural Resources, PUBL-SW-141, July 1993.

PROJECT NO: 8105-95-0019 **DATE:** November 16, 1994

PAGE: 9

PETROLEUM VOLATILE ORGANICS ANALYSIS RESULTS MODIFIED EPA METHOD 8020

(All values are in mg/Kg which is equivalent to parts-per-million)
(All results are reported on a dry weight basis.)

| Client Sample ID: | Stockpile 1 ¹ | Stockpile 21 | e tanada. | |
|--|--|------------------|-----------|-------------------------------------|
| LAB SAMPLE ID: | 2651 | 2652 | | |
| Parameter: | | | | Practical <u>Ouantitation Limit</u> |
| Methyl-tert-butyl ether | ND | 1.41 | | $0.005 (0.50)^{1}$ |
| Benzene (par #78124) | ND | ND^1 | | $0.005 (0.50)^{1}$ |
| Toluene (par #78131) | 0.081 | ND^1 | | $0.005 (0.50)^{1}$ |
| Ethyl Benzene (par #78113) | 0.23 | BQL ¹ | | $0.005 (0.50)^1$ |
| Total Xylenes (par #81551) | 1.31 | 2.41 | | $(0.50)^1$ |
| 1,3,5-Trimethylbenzene (par #77226) | 1.91 | 3.11 | | $(0.50)^1$ |
| 1,2,4-Trimethylbenzene (par #77222) | 2.71 | 4.11 | | $(0.50)^1$ |
| Surrogate Recovery: | The state of the s | | | |
| $\alpha\alpha\alpha$ -Trifluorotoluene (PID) | 75%, 99% ¹ | 100%1 | | |
| Percent Moisture: | 11% | 11% | | |
| Date Collected: | 11/3/94 | 11/3/94 | | |
| Date Received: | 11/4/94 | 11/4/94 | | |
| Date Analyzed: | 11/7/94, 11/9/94 ¹ | 11/9/94 | | |

N/A = Not Applicable

ND = Not Detected

BQL = Below Quantitation Limit

Reference: EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition. Wisconsin Department of Natural Resources, PUBL-SW-142, April 1992.

¹ Chromatograms for samples "Stockpile 1" and "Stockpile 2" indicate the presence of higher boiling hydrocarbons. Noted parameters were analyzed by the high level method at a 1:10 dilution.

PROJECT NO: 8105-95-0019 DATE: November 16, 1994

PAGE: 10

PETROLEUM VOLATILE ORGANICS ANALYSIS RESULTS

MODIFIED EPA METHOD 8020

(All values are in mg/Kg which is equivalent to parts-per-million)
(All results are reported on a dry weight basis.)

Race-SW

Sidewall-West

Race-SE

| Chent Sample ID: | Base-SE | Base-SW | Sidewall-West | |
|-------------------------------------|---------|---------|---------------|-------------------------------------|
| LAB SAMPLE ID: | 2653 | 2654 | 2655 | |
| Parameter: | | | | Practical <u>Quantitation Limit</u> |
| Methyl-tert-butyl ether | ND | ND | ND | 0.005 |
| Benzene (par #78124) | ND | ND | ND | 0.005 |
| Toluene (par #78131) | ND | ND | ND | 0.005 |
| Ethyl Benzene (par #78113) | ND | ND | ND | 0.005 |
| Total Xylenes (par #81551) | ND | ND | ND | 0.005 |
| 1,3,5-Trimethylbenzene (par #77226) | ND | ND | ND | 0.005 |
| 1,2,4-Trimethylbenzene (par #77222) | ND | ND | ND | 0.005 |
| Surrogate Recovery: | | | | |
| ααα-Trifluorotoluene (PID) | 109% | 105% | 97% | |
| Percent Moisture: | 6.8% | 6.0% | 7.3% | |
| Date Collected: | 11/3/94 | 11/3/94 | 11/3/94 | |
| Date Received: | 11/4/94 | 11/4/94 | 11/4/94 | |
| Date Analyzed: | 11/7/94 | 11/7/94 | 11/7/94 | |

N/A = Not Applicable

Client Sample ID.

ND = Not Detected

BQL = Below Quantitation Limit

Reference:

EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition.

PROJECT NO: 8105-95-0019 DATE: November 16, 1994

PAGE: 11

PETROLEUM VOLATILE ORGANICS ANALYSIS RESULTS

MODIFIED EPA METHOD 8020

(All values are in mg/Kg which is equivalent to parts-per-million)
(All results are reported on a dry weight basis.)

| Client Sample ID: | Sidewall-West | Sidewall-East | | |
|--|---------------|---------------|-------------------|-------------------------------------|
| LAB SAMPLE ID: | 2656 | 2657 | Blank Q94B2BEF | |
| Parameter: | | | | Practical <u>Ouantitation Limit</u> |
| Methyl-tert-butyl ether | ND | ND | ND | 0.005 |
| Benzene (par #78124) | ND | ND | ND | 0.005 |
| Toluene (par #78131) | ND | ND | ND | 0.005 |
| Ethyl Benzene (par #78113) | ND | ND | ND | 0.005 |
| Total Xylenes (par #81551) | ND | ND | ND | 0.005 |
| 1,3,5-Trimethylbenzene (par #77226) | ND | ND | ND | 0.005 |
| 1,2,4-Trimethylbenzene (par #77222) | ND | ND | ND | 0.005 |
| Surrogate Recovery: | | | | |
| $\alpha\alpha\alpha$ -Trifluorotoluene (PID) | 105% | 103% | 104% | |
| Percent Moisture: | 5.6% | 6.9% | N/A | |
| Date Collected: | 11/3/94 | 11/3/94 | N/A | |
| Date Received: | 11/4/94 | 11/4/94 | N/A | |
| Date Analyzed: | 11/7/94 | 11/8/94 | 11/7/94 | |

N/A = Not Applicable

ND = Not Detected

BQL = Below Quantitation Limit

Reference: EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition.

PROJECT NO: 8105-95-0019
DATE: November 16, 1994

PAGE: 12

PETROLEUM VOLATILE ORGANICS ANALYSIS RESULTS MODIFIED EPA METHOD 8020

(All values are in mg/Kg which is equivalent to parts-per-million)
(All results are reported on a dry weight basis.)

Client Sample ID:

LAB SAMPLE ID:

Lab MeOH

Blank Q94CB483

| | | | | Practical | | |
|-------------------------------------|---------|---------------------------------------|---------------------------------------|---------------------------------------|-----------|--|
| Parameter: | | | <u>Oua</u> | ntitation Lim | <u>it</u> | |
| Methyl-tert-butyl ether | ND | | | 0.050 | | |
| Benzene (par #78124) | ND | | | 0.050 | | |
| Toluene (par #78131) | ND | | | 0.050 | • | |
| Ethyl Benzene (par #78113) | ND | * | | 0.050 | | |
| Total Xylenes (par #81551) | ND | | | 0.050 | | |
| 1,3,5-Trimethylbenzene (par #77226) | ND | | | 0.050 | | |
| 1,2,4-Trimethylbenzene (par #77222) | ND | | | 0.050 | | |
| Surrogate Recovery: | | | | | | |
| ααα-Trifluorotoluene (PID) | 105% | | | | | |
| Percent Moisture: | N/A | | • | | | |
| Date Collected: | N/A | | | | | |
| Date Received: | N/A | | | | | |
| Date Analyzed: | 11/8/94 | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | | |

N/A = Not Applicable

ND = Not Detected

BQL = Below Quantitation Limit

Reference: EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition.

PROJECT NO: 8105-95-0019 DATE: November 16, 1994

PAGE: 13

QUALITY CONTROL PETROLEUM VOLATILE ORGANICS ANALYSIS RESULTS MODIFIED EPA METHOD 8020

(All values are in percent recovery)

| LAB SAMPLE ID: | Spike Q9470FB4 | Replicate Spike Q9471E65 | |
|-------------------------------------|----------------|-----------------------------|------------------------|
| Parameter Recovery: | | | Acceptance Criteria |
| Methyl-tert-butyl ether | 92% | 102% | 85-115% |
| Benzene (par #78124) | 92% | 99% | 85-115% |
| Toluene (par #78131) | 93 % | 99% | 85-115% |
| Ethyl Benzene (par #78113) | 92 % | 98% | 85-115 % |
| Total Xylenes (par #81551) | 92 % | 98% | 85-115% |
| 1,3,5-Trimethylbenzene (par #77226) | 92% | 98% | 85-115 % |
| 1,2,4-Trimethylbenzene (par #77222) | 91% | 97% | 85-115% |
| Surrogate Recovery: | | | |
| ααα-Trifluorotoluene (PID) | 103 % | 101 % | |
| Date Analyzed: | 11/4/94 | 11/4/94 | |

N/A = Not Applicable

Reference: EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition.



| | Colbolation | | | 0.3 | i. Ocsel | | | | | | | | | | | QNI-Y |
|----------------|--|---------------------------------------|----------|-------|--|------------|-------------|----------------|----------|--------------|-------------|----------|-------------|--|--|--|
| • • | | | TCT CO | NTACT | ch land | · | (~ | CP0. 1 | · A | | | | | | PROJ. MGR. | |
| . 1 | 111 8 1.7 11.1 | . T | PROJEC | TNAME | - Wansan 4094-565 | | <u> </u> | , | STUN | 76 | | ····· | | | PRIORITY | |
| | Jella Environmental Consultants | 1,1/10. | CLIENT | | | | | | | | | | | · | INVOICE # | 15 -; ' |
| | NOT MORPHOGOLES Dr., State 200 ADDITION OF COMMENT OF THE STATE OF TH | | | - 71. | Plta | | | | | | | | | | JOB NAME | |
| | A Part, AIN SINZ | | 14114111 | 17: | IE, ADDRESS) | 01 T | | Qc. | 115 | | | | | | CUSTODY SEAT INTACT/NUI | MBI:H |
| | COMPACTADDRESS IF DIFFERENT FROM ABOVE PHONE | 22. | ANALY | | HILTER | | | a / | 1 | 1 | / | 7 | 1 | 1 1 1 | TEMPERATURE OF CONTAR | |
| | | | REQU | EST | PRESERV | | | _ | / | - | / | / / | /- | / | SAMPLE CONDITION | |
| SAMPLE | DBY PRINT NAME/SIGNATURE | | 1 | | REFRIGERATI | ED (Y/ | N) / | $\frac{1}{2}$ | <u> </u> | ×/ | -/ | -/ | -/ | -/-/ | Intact | |
| | | | | | CODE A · NONE | | | $\overline{}$ | 1 | | 1 | 7 | 7 | // / | PREPAY Y/N | |
| | | | | | B - HNO3 C - H ₂ SO ₂ D - NaOH | | | / _X | / | / | | / / | / | / / | CHECK NO. | |
| POSSIE | BLE HAZARD: YES UNKNOWN _X (COMMENT B | ELOW) | | | D - NãOH E HCI | • | / _/ | | | s)/ | / | / | | | | : |
| SAMPL | L DISPOSAL: DISTURN TO CHENT DISPOSAL BY LAF | <u>×</u> | | | F · | -/, | | Z/C | 3// | */ | | | | | CHECK AMOUNT | |
| | (ADDITIONAL CHARGES MAY BE ASSESSED) | • | | | | / | | 7 | / / | / / | / | / | / | | | |
| HLM NO. | CHENE SAMPLE ID. | MATRIX | SVWI, | | TIME SAMPLED | | | | | | | | | NO. OF CONTAINER | S CONTAINER S TYPE | TCT NO. |
| 1 | 1)ase - >> | 2011 | 11/3 | 1:1-1 | 5:15 | Δ | \times | X | | | | | | <u> シ</u> | (a) al /4 06 | 27.35 |
| 2 | Bax SW | | | | 5:00 | Δ | X | X | | | | | | 5 | | 2654 |
| 3 | internal West | | | | 5 30 | у | l | χ | | | | | | ۷ | | 24.5.5 |
| 4 | Sulcantt - South | | | | 5:40 | χ | | λ | | | | | | 2 | • | 2636 |
| 5 | " internal Fast and | | 1 | · . | 5.50 | <u>\}_</u> | <u> </u> | X | | | | | | 2 | | 1657 |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 83 | en e | | | | | · | | | | | | F. 1 NB. | | | | |
| 9 | | | | • | | | | | | | | | | | | e de la companie de l |
| 10 | | | | | | | | - | - | - | | | _ | | | |
| 1 Addit | ional Comments | <u> </u> | | RELI | NONISHED BY / | AFF | LAT | ΙΩΝ | | I. DATI | | TIME | T | ACCEPTE | P BY / AFFILIATION | RATE TIME |
| | Hen No. 1 the 5 use Proc | C Su | | | ·,· | De l | | 13,51 8 | | Juli | | ĵ:4, | | 4 4 4 | | 11/11/20 11/11/2 |
| . . | | - 100 | | 0 1 | | <u> </u> | In | | [[[| 1/4/ 1/4/ | | | | 0 1 1 |) | |
| | (a) lace | | | | 1. night | | | | - - | 17-11 | 17 | 16: | <u>oc</u> _ | | | |
| 1 | | · · · · · · · · · · · · · · · · · · · | | | <u></u> | | | | - | | _ - | ···· | - - | | | |
| | The same of the same of the same of the same | | | | | | | | | | | | . | | een al a san da san | |
| | · | *** | | • • | | | | | | | | | | | | |
| | | | 1 | | | | | | 1 | | | | ľ | | | |

CHAIN-OF-CUSTODT HECORD

TET NO. 00390



| | twin city testing | | CHAIN-C | of-custor | γĦ | Ecol | ₹U | | | 7 | CT NO. | _ | UB 397 |
|----------------|--|--------------|------------------------|--|----------------------|---|---------------------|-------|-------------|----------------------|--|--------------|---------------|
| | corporation | | P | .J. Ocyel Awsau Awsy-56 | | | | | | | TO PROJ. MGR. | T USE O | NFA STATES |
| | | | TCT CONTACT | ntensain | | Gres | stime | • | | | 0.7 | | |
| Del | de Environmental Cons. Heats Inc | L. | PROJECT NAME | A094-56 | | | | | | | Ma . | | |
| Crieni n | Ac Environmental Consultants. Inc MAME DESTRUCTION DEBUTES CHARLES OF South 2005 DEBUTES CHARLES OF SOUTH STORY SNIACTADDINGS BEDITHER NITHOM ABOVE PHONE | | CLIENT P.O. # / PF | ROJECT NO. | | | | | | | NVOICE # | (A) | 5-19 |
| लामा V १५,५ | nour se territor or a month of the second of | | DILL TO (CO. NAM | ROJECT NO. 100 TCA 11. ADDRESS) | | | 11 | | | 1 | NOB NAME | | 1 |
| , A maio | DODE OF CAPCESAR AND | | / -// - III POIN 10 | Dalus | ·" [| 14 | 110 | | | | CUSTODY SEAL INT | VCTVITIVITI | II. |
| . Za | SALAC LANDON SS IL DIELEN NELDOM ANOME PHONE | | ANALYSES | FRIER | | | / / | / / | / | 1111 | T C C. | CONTAINE | k |
| | 1 Al Durch Orto | | REQUEST | PRESERV | ED (COD | E) // | | /_/- | /-/ | | SAMPLE CONDITION | · | |
| SAMPLED | DUY PRINT NAME/SIGNATURE PAUL OTTO | | | REFRIGERATI | D (Y/N) | $\frac{1}{\lambda}$ | $\frac{1}{\lambda}$ | 7/ / | | // / L | 7 11400 | <u>T</u> | |
| | | | | CODE A - NONE | , | | / // | // | 7 | // [| PREPAY Y/N | · | |
| | | | | B - HNO3 C - H ₂ SO ₂ D - NaOH | , / | /x./ | / // | / / | / / | / / | CHECK NO. | | |
| POSSIBI | E HAZARD: YES UNKNOWN X (COMMENT BE | ELOW) | | D NaOH E HCI | / | | J/b/ | 1// | / / | / | | | |
| SAMPH | DISPOSAL: RIFTURN TO CHENT DISPOSAL BY LAB | <u> </u> | | . F | | 18/0 | 3/1/ | // | | | CHECK AMOUNT | | |
| | (ADDITIONAL CHANGES MAY BE ASSESSED) | | | | / 7 | | | / / | / | / | | | |
| M III NO. | CHENT SAMPLE ID. | MATRIX | DATE SAMPLED | TIME SAMPLED | | | | | | NO. OF CONTAINERS | CONTAIN TYPE | | TCT NO. |
| 1 | Bise - South | Soil | 11/1/94 | 12:10 | X | | | | | | (dont /p | last. | 2643 |
| 2 | Dase - Center | 1 1 | | 12:15 | λ | | | | | 2 | | | 2644 |
| 3 | Base - North | 4 | | 12:20 | X | | | | | 2 | | | 36.45 |
| 4 | Oras Pipe 1 | | 11/2/94 | 4:30 | Y | | | | | 2 | | | 2616 |
| 5 | Grey Pipe 2 | | 1 | 4:40 | X | | | | | 2 | | | 2647 |
| 6 | P.pe 3 | | | 4:50 | X | | | | | 2 | | | 2648 |
| 7 | Ore P.pe 2 Ore P.pe 3 Ore P.pe 4 Ore P.pe 4 Ore P.pe 4 | | | 5:00 | X | | | | | 2. | | | 2. 17 |
| 11 | | | 11/3/24 | 10:55 | $ \hat{\mathbf{x}} $ | | | | | 2 | | | 1, 1, 1) |
| 9 | h Lada 1 | | 11/2/24 1 | 3:45 | 1 1 | $x \times$ | | | | 3 | (a) 1/4, | | |
| 10 | Stockpile 2 | | | | 1 | $\frac{\lambda}{\lambda} \frac{\lambda}{\lambda}$ | | | \vdash | 3 | 1 (1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 | <u> </u> | .2 (0.5 / |
| | | I V | PEL II | | | The second second | DAT | TIM | | | DV (AEEILIAT | ION | DATE THE |
| | onal Comments | | | NOUISHED BY | | | PAT | | | | BY / AFFILIAT | IHIY . | PATE TIME |
| | , item Als, it & lo use proc | dir | March | Otto /D | elta | | | 9:4 | | 19) , 9 | ougher | | 11/1/1/ 1/1/3 |
| · · · · · · | terstice | ····· | [(7)] | custe | | | 11/1/ | 4 16: | 00 | | · · · · · · · · · · · · · · · · · · · | | |
| sl. | | | | | | | | | _ | <u> </u> | | | |
| 45 | Mr. Suples in St. Pool | <u>5 1 5</u> | , | | | | | | | | 7 to 18 the 200 to 10 to | | |
| | | | | | | | | | _ | | | | |

Huntingdon Engineering & Environmental, Inc.

737 Pelham Boulevard St. Paul, Minnesota 55114-1739

> (612) 659-7600 FAX (612) 659-7515

REPORT OF: CHEMICAL ANALYSES

PROJECT:

3M-WAUSAU, GREYSTONE, A094-565

DATE: November 18, 1994

REPORTED TO:

DELTA ENVIRONMENTAL CONSULTANTS INC

Attn: CRAIG JOHNSON

3900 NORTHWOODS DR STE 200

ST PAUL MN 55112

LABORATORY NO: 4411 95-10732

HPN: 10732

INTRODUCTION

This report presents the results of the analyses of four samples received on November 5, 1994, from a representative of Delta Environmental Consultants, Inc. The scope of our services was limited to the parameters listed in the attached tables.

METHODOLOGY

Analyses are performed according to Huntingdon Standard Operating Procedures. The procedures are based on the references stated in the analytical results tables.

RESULTS

The results are listed in the attached tables.

REMARKS

The samples were collected on November 3, 1994. If samples are not consumed in the analysis, they are held for two months from the date of sample receipt and then disposed, unless written instructions to the contrary are received.

HUNTINGDON ENGINEERING & ENVIRONMENTAL, INC.

Sharon Cenis
Project Manager

Project Manager

Dirket on Conso

SC/SK/tb

Stephanie Kidder Laboratory Manager

A member of the HIII group of companies

POLYNUCLEAR AROMATIC HYDROCARBON RESULTS EPA METHOD 8310

(All values are in $\mu g/Kg$ which is equal to parts-per-billion)

Client ID:

Method Blank

Method Blank

TCT ID:

| Parameter: | | | POL |
|--------------------------|----------|----------|----------|
| Naphthalene | ND | ND | 500 |
| 1-methylnaphthalene | ND | ND | 500 |
| 2-methylnaphthalene | ND | ND | 500 |
| Acenaphthylene | ND | ND | 500 |
| Acenaphthene | ND | ND | 500 |
| Fluorene | ND | ND | 150 |
| Phenanthrene | ND | ND | 150 |
| Anthracene | ND | ND | 150 |
| Fluoranthene | ND | ND | 150 |
| Pyrene | ND | ND | 150 |
| Benzo (a) anthracene | ND | ND | 10 |
| Chrysene | ND | ND | 10 |
| Benzo (b) fluoranthene | ND | ND | 10 |
| Benzo (k) fluoranthene | ND | ND | 10 |
| Benzo (a) pyrene | ND | ND | 10 |
| Dibenzo (a,h) anthracene | ND | ND | 10 |
| Benzo (ghi) perylene | ND | ND | 10 |
| Indeno (1,2,3 cd) pyrene | ND | ND | 10 |
| | | | QC Limit |
| % Surrogate Recovery | 100% | 101% | 72-115% |
| Date Extracted: | 11/15/94 | 11/14/94 | |
| Date Analyzed: | 11/15/94 | 11/15/94 | |

All results are reported on a dry weight basis.

PQL = Practical Quantitation Limit

ND = Not Detected Surrogate = Terphenyl

Reference:

- 11

11

11 11

11

11

11

POLYNUCLEAR AROMATIC HYDROCARBON RESULTS EPA METHOD 8310

(All values are in $\mu g/Kg$ which is equal to parts-per-billion)

Base-SW

ND

ND

ND

ND

ND

ND

ND

11/15/94

Base-SE

ND

ND

ND

ND

ND

ND

ND

11/15/94

| | | | * · · · · · · · · · · · · · · · · · · · |
|----------------------|-------|-------|---|
| TCT ID: | 44172 | 44173 | |
| Parameter: | | | <u>POL</u> |
| Naphthalene | ND | ND | 530 |
| 1-methylnaphthalene | ND | ND | 530 |
| 2-methylnaphthalene | ND | ND | 530 |
| Acenaphthylene | ND | ND | 530 |
| Acenaphthene | ND | ND | 530 |
| Fluorene | ND | ND | 160 |
| Phenanthrene | ND | ND | 160 |
| Anthracene | ND | ND | 160 |
| Fluoranthene | ND | ND | 160 |
| Pyrene | ND | ND | 160 |
| Benzo (a) anthracene | ND | ND | 11 |

| 101% | 90% | QC Limit 72-115% |
|------|--------------------------|---------------------|
| | | 72*113 /0 |
| | 101 <i>%</i> 11/15/94 | |

All results are reported on a dry weight basis.

PQL = Practical Quantitation Limit

ND = Not Detected

Date Analyzed:

Surrogate = Terphenyl

Reference:

Client ID:

Chrysene

Benzo (b) fluoranthene

Benzo (k) fluoranthene

Dibenzo (a,h) anthracene

Indeno (1,2,3 cd) pyrene

Benzo (ghi) perylene

Benzo (a) pyrene

POLYNUCLEAR AROMATIC HYDROCARBON RESULTS EPA METHOD 8310

(All values are in µg/Kg which is equal to parts-per-billion)

| Client ID: | Stockpile 1 ¹ | |
|--------------------------|--------------------------|----------|
| TCT ID: | 44170 | |
| Parameter: | | POL |
| Naphthalene | 1,200 | 560 |
| 1-methylnaphthalene | 9,100 | 2,800 |
| 2-methylnaphthalene | 7,700 | 2,800 |
| Acenaphthylene | 2,600 | 560 |
| Acenaphthene | 2,100 | 560 |
| Fluorene | 4,400 | 840 |
| Phenanthrene | 9,500 | 4,200 |
| Anthracene | ND | 840 |
| Fluoranthene | 20,000 | 4,200 |
| Pyrene | ND | 4,200 |
| Benzo (a) anthracene | 1,500 | 280 |
| Chrysene | ND | 280 |
| Benzo (b) fluoranthene | 30 | . 11 |
| Benzo (k) fluoranthene | ND | 11 |
| Benzo (a) pyrene | 27 | 11 |
| Dibenzo (a,h) anthracene | ND | 11 |
| Benzo (ghi) perylene | 26 | 11 |
| Indeno (1,2,3 cd) pyrene | 30 | 11 |
| | | QC Limit |
| % Surrogate Recovery | 143% ² | 72-115% |
| Date Extracted: | 11/14/94 | |

All results are reported on a dry weight basis.

PQL = Practical Quantitation Limit

ND = Not Detected

Date Analyzed:

Surrogate = Terphenyl

11/15-16/94

Reference:

The sample chromatogram contained many unresolved peaks. It is likely that in addition to the listed PAHs, other PAHs or similar compounds were also present. Since the quantitative values reported here represent the total contribution from all compounds which gave a positive response at the column retention time of a particular PAH, the actual levels may be lower than the reported values. Under some conditions, the concentration for a compound may be higher than the reported value. Confirmation of the levels of specific PAHs will require an alternative analytical technique which can better isolate and quantify the separate components of the mixture.

² High surrogate recovery due to matrix interference.

POLYNUCLEAR AROMATIC HYDROCARBON RESULTS EPA METHOD 8310

(All values are in µg/Kg which is equal to parts-per-billion)

Client ID:

Stockpile 21

| TCT ID: | 44171 | |
|--------------------------------|-------------------------|-------------|
| Parameter: | | POL |
| Naphthalene | 1,700 | 550 |
| 1-methylnaphthalene | 14,000 | 2,800 |
| 2-methylnaphthalene | 14,000 | 2,800 |
| Acenaphthylene | 3,000 | 2,800 |
| Acenaphthene | 1,900 | <i>55</i> 0 |
| Fluorene | 5,300 | 830 |
| Phenanthrene | 3,000 | 830 |
| Anthracene | 760 | 830 |
| Fluoranthene | 24,000 | 4,100 |
| Pyrene | ND ND | 4,100 |
| Benzo (a) anthracene | 1,900 | 280 |
| Chrysene | 170 ³ | 55 |
| Benzo (b) fluoranthene | 22 | 11 |
| Benzo (k) fluoranthene | ND | 11 |
| Benzo (a) pyrene | ND | 11 |
| Dibenzo (a,h) anthracene | ND | 11 |
| Benzo (ghi) perylene | 31 | 11 |
| Indeno (1,2,3 cd) pyrene | 34 | 11 |
| <i>~ a b</i> | ana 2 | QC Limit |
| % Surrogate Recovery | 28% ² | 72-115% |
| Date Extracted: Date Analyzed: | 11/14/94 11/15-16/94 | |

All results are reported on a dry weight basis.

POL = Practical Quantitation Limit

ND = Not Detected

Surrogate = Terphenyl

Low surrogate recovery due to matrix interferences.

Reference:

The sample chromatogram contained many unresolved peaks. It is likely that in addition to the listed PAHs, other PAHs or similar compounds were also present. Since the quantitative values reported here represent the total contribution from all compounds which gave a positive response at the column retention time of a particular PAH, the actual levels may be lower than the reported values. Under some conditions, the concentration for a compound may be higher than the reported value. Confirmation of the levels of specific PAHs will require an alternative analytical technique which can better isolate and quantify the separate components of the mixture.

³ Peak saturated detector; result is an estimate.



| | | | 161 21.9 | | | | | 2.17 | | |
|--|---------------------------------------|---------------------|-------------------------------------|-------------|---------------------------|----------|----------|--------------------|-------------------------|----------------------|
| twin city testing | l | CHAIN | 166-269 7-Club | D | Ecd | TIP | | | TCT-NO. | ىن 55ىرىر |
| corporation | | Λπ | · 0 | | | | | | TOTUSE | |
| | | TCT CONTACT | · Pegel | | | | | | DOOL MOD | 50-6 47-194 |
| | | 3M | - Wansan 405-1-565 HOUFGT NO. | - + - ' | Oreiz s | tone | | · · | BDIODITY . | |
| Delte Environmentel Consultunts | Inc. | PROJECT NAME | 709-1-565 | | | | | | INVOICE # | . ૫/છ/વેલ |
| CLIENTHAME Northwoods Mr. Saik 200 | . · · . | Ω | o /tc. | | • | | | | JOB NAME 110.1 | |
| CLIENT NAME 3700 Northworks Mr., Sake 200 CLIENT ADDRESS (STREET NUMBER, SUITE, ETC.) 51 Carl, MN 55112 CLIENT ADDRESS (CITY, STATE, ZIP) (12) US., St. | | BILL TO (CO. NAM | Solus | m | - Pe | Ha | | | - APN | 0732 |
| CLIENT ADDRESS (CITY, STATE, ZIP) (L. 15 1. Churs. 17 (Lul2) 480 - 802 CLIENT CONTACT ADDRESS IF DIFFERENT FROM ABOVE PHONE | ? 2. | REPORT TO | 0 | | | | | | CUSTODY SEAL INTACT/NUM | 7 134 |
| CLIENT CONTACT ADDRESS IF DIFFERENT FROM ABOVE PHONE | | ANALYSES REQUEST | FILTER | RED (YES | /NO) / | | | | TEMPERATURE OF CONTAINE | TicB4 |
| SAMPLED BY PRINT NAME/SIGNATURE | | nequest | PRESERV | | J | /_/_ | | | SAMPLE CONDITION Intact | BOU |
| SAMPLED BY PRINT NAME/SIGNATURE | , | | REFRIGERAT | ED (Y/N) | 1-4 | <u> </u> | | | | |
| | | | CODE A - NONE B - HNO3 | | / / , | J / | // | | PREPAY Y/N | |
| POSSIBLE HAZARD: YES UNKNOWN _X (COMMENT BE | EI OW) | | C - H ₂ SO D - NaOH | 4 / | /*\a | | / / | / / / | CHECK NO. | |
| | | | E - HCI | /& |)/±/ | J/\$ | ' / / | ' | CHECK AMOUNT | |
| SAMPLE DISPOSAL: RETURN TO CLIENT DISPOSAL BY LAB | <u>X</u> | | F | | 多 | | // | | | |
| (ADDITIONAL CHARGES MAY BE ASSESSED) | · · · · · · · · · · · · · · · · · · · | | | [] | | <u> </u> | | /_/ | | |
| NO. OIL CLIENT SAMPLE ID. | MATRIX | DATE SAMPLED | TIME SAMPLED | | | | | NO. OF CONTAINE | CONTAINER RS TYPE | TCT NO. |
| 1 1 Base - 55 44172 | Soil | 11/3/94 | 5:15 | $ \lambda $ | $\mathbf{x} \mathbf{x}$ | | | 3 | 60mi / 4 .: | 2653 |
| 2 Bax SW 44173 | |) | 5.00 | λ | χN | | | 5 | 4 | 2654 |
| 3 Sidewall- West | | | 5.30 | λ | \ | | | 2 | " | 2655 |
| 4 Sidewall - Sonth | | | 5:40 | X | | | | 2 | κ. | 2656 |
| 5 Sidewall - East | | | 5.50 | | X | | | 7 | | 2657 |
| 6 | | | <u> </u> | | | | | | | A 62 1 |
| 7 | | | | | | | ++- | | | |
| | | | | 1-1 | | | | | | |
| 8 | | | | \vdash | | | | | | |
| 9 | | | | | | | <u> </u> | <u> </u> | | |
| 10 | | | | | | | | | | |
| Additional Comments | | RELI | NOUISHED BY / | AFFIL | MOITA | PAT | F TIM | E ACCEPT | ED BY / AFFILIATION | PATE TIME |
| Fr the 12 1 to 5 we New | to | - | (att / | 14/1 | | 11/4/ | 94 9:4 | 5 A1 Na | icle . | 11/4/21 09:45 |
| 21つ)で4一で | | 101 | Nou 6 | | | 177 | 194 16 | er Pauson | Lad part | 11/5/412/1 |
| | | / | 8 | | | | 19 | 27 104 | - Marian | |
| *PAH Samples to St Paul - DJD | | | | | | | | | | |
| 177 Jampies to St Feul - DJD | | | | | | | | | | |
| | | | | <u> </u> | | | | | | - |



TOT CONTACT

SM - Liansan Greyst

TCTNO.

<u>. [p</u>

ეს<u>ს</u>351

| | | TCT CONTACT | 1.3. 4.2.2c.1 | | | | | P | ROJ. MGR. | BC "AKIN |
|--|-------------|---------------------|---------------------------------------|-------------|--|--|--|--|--------------------------|--|
| | | 341-6 | Jansan Augy-56 | , 6 | 18-751 | me | | F | PRIORITY / | 1 deci- |
| Pella Environmental Consultants, Pr | د, ، ، - | PROJECT NAME | AUGY-56 | 5 | | | | _ | PRIOBITY Norm | 11/6/194 |
| CLIENT NAME | | | ROJECT NO. | | | | | E . | 8105 9 | 5-19 |
| CLIENT NAME STICE VICTORIOS (STREET NUMBER, SUITE, ETC.) CLIENT ADDRESS (STREET NUMBER, SUITE, ETC.) CLIENT ADDRESS (CITY, STATE, ZIP) CLIENT ADDRESS (CITY, STATE, ZIP) (1.12) 4/8/is 8/22 | | BILL TO (CO. NAM | HE, ADDRESSI | | - A 11 | · · · · · · · | · | J | OB NAME HPN II | 0732 |
| CHENT ADDRESS (CITY STATE ZIP) | | REPORT TO | us Johns | -77 - | 14/1 | ــــــــــــــــــــــــــــــــــــــ | | 9 | CUSTODY SEAL INTACT/NUMB | ER |
| CLIENT ADDRESS (CITY, STATE, ZIP) CLIENT CONTACT/ADDRESS IF DIFFERENT FROM ABOVE PHONE | 2 2_ | | EU 750 | RED (YES/NO | ', , , , , , , , , , , , , , , , , , , | | . , . , | | EMPERATURE OF CONTAINE | |
| CHENT CONTACT/ADDRESS IF DIFFERENT FROM ABOVE PHONE | | ANALYSES REQUEST | | | <i></i> | / /, | -/-/- | | ILE | |
| SAMPLED BY PRINT NAME/SIGNATURE | | | | (ED (CODE) | <u></u> | <u> </u> | / / | /-/-/ L | SAMPLE CONDITION Intact | |
| SAMPLED BY PRINT NAME/SIGNATURE (/ | | ļ | REFRIGERAT | <i>\</i> | <u>X/ </u> | $\times//$ | / | <u>/_/_</u> / - | | |
| | | | CODE A - NONE B - HNO3 | , | | /// | | // [| PREPAY Y/N | |
| POSSIBLE HAZARD: YES UNKNOWN X (COMMENT B) | ELOW) | | C - H ₂ SO D - NaOH | 4 / / | X *) | /// | / / | / / t | CHECK NO. | |
| (comment b | LLOW | | E · HCI | - / / | ال: اس | [5] | /// | / / | CHECK AMOUNT | |
| SAMPLE DISPOSAL: RETURN TO CLIENT DISPOSAL BY LAB | -X_ | | F | -\X\2 | | 5/ / | | / L | | |
| (ADDITIONAL CHARGES MAY BE ASSESSED) | | | | / "/ | / / ' | / / | // | | | |
| ITEM NO. CLIENT SAMPLE ID. | MATRIX | DATE SAMPLED | TIME SAMPLED | | | | | NO. OF CONTAINERS | CONTAINER TYPE | TCT NO. |
| 1 Ruse - South | 5:1 | 11/1/94 | 12:10 | X | | | | 2 | Went / most | 2643 |
| 2 Rise - Center | | | 12:15 | χ | | | | 2. | | 2644 |
| 3 Base - North | | V | 12:20 | χ | | | | 2 | | 2645 |
| 4 Gray - Pipe 1 | | 11/2/94 | 4:30 | X | | | | 2 | | 2646 |
| 5 (my . P.pe 2 | | 1 | 4:40 | X | | | | 2_ | | 2647 |
| 6 (100 Ppc 3 | | | 4:50 | Х | | | | 2 | | 2648 |
| 7 Grey - Pipe 4 | | | 5:00 | X | | | | 2 | | 2649 |
| 8 Com Pipe 5 HSN | | 11/3/94 | 10:55 | X | | | | 2 | | 2650 |
| 9 BDY Steckpile 1 44170 | | 1 | 3:45 | XX | Х | | | 3 | (den/ /4/12, | 2651 |
| 10 Bill stockpile 2 44171 | V | 1 | 3.55 | XX | λ | | | 3 | 1 | 2652 |
| Additional Comments | | RELI | NONISHED BY / | AFFILIAT | ρN | PATE | TIME | ACCEPTED | BY / AFFILIATION | PATE TIME |
| To a the Continue Case | 1.,- | | Ste 1 | | | يجسد | 9:45 | | | 11/4/9-1 09:45 |
| in the G | | 1/0/1 | I wille | <u> </u> | | | 16100 | The state of the s | Brasperd | 115/4 16.10 |
| | | 1 12/1 | J W/KL | | | 17177 | 16160 | 1.70 ua. \sim | Becorrie C | 1112/7 1 1 - 1 . |
| 15.1 | · · · · · · | | <u> </u> | | | | | | : | |
| PAH samples to St. Paul - | DID | | · · · · · · · · · · · · · · · · · · · | · · · | | | | | . : | ļ |

Wisconsin Department of Industry, Labor and Human Relations

Complete one form for each site closure.

SBD-8951 (R. 06/94)

CHECKLIST FOR UNDERGROUND TANK CLOSURE

The information you provide may be used by other government agency programs [Privacy Law, s. 15.04 (1) (m)].

RETURN COMPLETED CHECKLIST TO Safety & Buildings Division Fire Prevention & Underground Storage Tank Section P. O. Box 7969, Madison, WI 53707

| Α. | . IDE | NTIFICATION: (Ple | ase Print) I | ndicate whether | | | ☐ Tank | Only | Piping C | nly |
|----|---|--|--|--|--|---|-----------------|---|--|------------------------------|
| | _ | Name | | - 0: | 2. Owner N | | | | | |
| - | 3 N | reet Address (not P.O. Bo | YSTON | E PLANT | 3 N | | | | | |
| 1 | 1 TT | • | | | Owner Stree | BusH A | U. | | | |
| 7 | Cit | 4 DECAT | WK Di | Town of: | Y City | Village Town | | tate | Zip Code | |
| L | | | go | Z | | Paul | 1 1000 | 7N. | 55144 | |
| -5 | State | | Code | County | County | | | clude area co | de) | |
| | WI | 5 | 04401 | MARATH | DN | (|) | | | |
| | | sure Company Name (P | ^ | Clo | sure Company Street A | | | | | |
| | | BTHWEST | | | | | VE_ | | | |
| (| | Company Telephone No. 5) 675 -2 | | code) Clo | sure Company City, Sta VAUSAU, | LUI 54401 | | | | |
| - | | rie of Company Performin | | ssment Ass | sessment Company Stre | eet Address, City, Stat | e. Zin Code | 2 | | |
| _ | | Environmental | | | 00 Northwoods | | | | 55112 | |
| | | hone # (include area cod | | | | or Signature | - | | or Certification | |
| | (5) | 2 1486-8022 | The second secon | 1 A. Otto | | and Otto | | 0. | 5083 | |
| = | | Tank ID # | Closure | Temp. Closure | Closure In Place | Tank Capacity | Conten | ts * Clos | sure Assess | ment |
| 1. | 37 | 2000114 | A | | | 50,000 | 4 | | ĎY □N | |
| 2. | | | | | | ~ | | | OY ON | |
| 3. | | | | | | | | | \square \vee \square \vee | |
| 4. | | | | | | | | | \square Y \square N | |
| 5. | | | П | П | П | | | | ПУ ПИ | |
| 6. | | | | | | | | | OY ON | |
| | | ate which product by | | 01-Diesel: 02-Lea | aded: 03-Unleaded: 0 | U 04-Fuel Oil: 05-Gas | ohol: 06-0 | Other: 09-U | oknown: 10-F | remix |
| | 11-V | Vaste oil; 13-Chemica | I (indicate the | chemical name(s) | or numbers(s) | | | ; 14-Kero | sene; 15-Avi | ation. |
| - | | the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is section in the second section in the section is section in the section in the section is section in the section in the section in the section is section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section in | | | | | | | | |
| W | /ritten | notification was provi | ded to the loc | al agent 15 days in | advance of closure | date | | \forall Y | | NA |
| | | notification was provi | | | | | | | □ N [| NA NA |
| A | II loca | l permits were obtained | ed before beg | inning closure | | | | 🔯 Y | □ N [| NA |
| C | II loca | | right in res | inning closure. | | | | | □ N [| NA |
| C | heck I. TE | applicable box at EMPORARILY OUT | right in response of SERVIC val of temporar | ponse to all state E ry closure obtained | tements in Sectio | ns B - E. | | Remover | ☐ N [| NA |
| C | theck theck theck theck theck theck theck theck | applicable box at EMPORARILY OUT ritten inspector approvelefective until (provide | right in response of SERVIC val of temporar | ponse to all state E ry closure obtained | tements in Sectio | ns B - E. | | Remover | Inspector Verified | NA |
| C | theck theck theck theck theck theck theck theck | applicable box at applicable box at applicable box at approvement of the provided approvement of the product Removed | right in responsed of SERVIC and of temporary date) | ponse to all state E ry closure obtained | tements in Sectio | ns B - E. | | Remover Verified | Inspector Verified | NA NA |
| C | theck the theck the theck the the the theck theck the the the theck the the theck the the the the the the the the the the | applicable box at EMPORARILY OUT ritten inspector approve effective until (provide Product Removed a. Product lines drain | right in responsed of SERVIC val of temporary date) | ponse to all state ry closure obtained or other container) | tements in Section d, which | ns B - E. | | Remover Verified Y Y N | Inspector Verified | NA NA |
| C | Il loca Check B. TE Wr is o | a permits were obtained applicable box at EMPORARILY OUT ritten inspector approveffective until (provide Product Removed a. Product lines drain b. All product removed c. All product removed | right in responsed of temporary date) med into tank (red to bottom or ded to within 1" | ponse to all state ry closure obtained or other container) of suction line, OR of bottom | tements in Section d, which and resulting liquid | removed, AND | | Remover Verified | Inspector Verified | NA NA |
| C | Check B. TE Wr is 6 1. | applicable box at EMPORARILY OUT ritten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove Fill pipe, gauge pipe, | right in response date) med into tank (or ed to bottom or ed to within 1" tank truck var | ponse to all state ry closure obtained or other container) of suction line, OR of bottom poor recovery fitting | tements in Section d, which and resulting liquid s, and vapor return I | removed, AND | | Remover Verified Y N Y N Y N Y N Y N Y N Y N Y N Y N | Inspector Verified | NA OOO |
| C | Il loca Check B. TE Wr is 6 1. | applicable box at EMPORARILY OUT ritten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove Fill pipe, gauge pipe, All product lines at the | right in response date) ned into tank (or ded to bottom or ded to within 1" tank truck varie islands or predicted to predicted to the truck varie islands or predicted to the truck varie is the | ponse to all state ry closure obtained or other container) of suction line, OR of bottom poor recovery fitting umps located elses | tements in Section d, which and resulting liquid s, and vapor return I where are removed a | removed, AND | | Remover Verified Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N | Inspector Verified | NA 0 0000 |
| C | Ul loca Check B. TE Wr is o 1. | applicable box at EMPORARILY OUT ritten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove fill pipe, gauge pipe, All product lines at the Dispensers/pumps le | right in response date) ned into tank (ded to bottom of tank truck varie islands or put in place but | ponse to all state ry closure obtained or other container) of suction line, OR of bottom our recovery fitting umps located elsew locked and power | and resulting liquid s, and vapor return I where are removed a disconnected. | removed, AND ines capped. | | Remover Verified Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N | Inspector Verified | NA 0 0000 |
| C | Ul loca Check B. TE Wr is o 1. | applicable box at EMPORARILY OUT ritten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove Fill pipe, gauge pipe, All product lines at the Dispensers/pumps le Vent lines left open. | right in response date) ned into tank (ded to bottom of tenk truck varie islands or pift in place but | ponse to all state ry closure obtained or other container) of suction line, OR of bottom our recovery fitting umps located elsew locked and power | and resulting liquid s, and vapor return I where are removed a disconnected. | removed, AND ines capped. | | Remover Verified Y N | Inspector Verified | NA |
| CB | Il loca Check I. TE Wr is 6 1. 2. 3. 4. 5. 6. | applicable box at EMPORARILY OUT ritten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove Fill pipe, gauge pipe, All product lines at the Dispensers/pumps le Vent lines left open. Inventory form filed in | right in response of service and of temporare date) med into tank (red to bottom or ed to within 1" tank truck varie islands or post in place but the conditional temporare dating temporare indicating temporare islands or post in place but the conditional temporare islands or post in place but the conditional temporare islands or post in place but the conditional temporare islands or post in place but the conditional temporare islands or post in place but the conditional temporare islands or post in place but the conditional temporare islands or post in place t | ponse to all state ry closure obtained or other container) of suction line, OR of bottom our recovery fitting umps located elsew locked and power | and resulting liquid s, and vapor return I where are removed a disconnected. | removed, AND ines capped. | | Remover Verified Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N | Inspector Verified | NA 0 0000 |
| CB | Eheck B. TE Wr is 6. 2. 3. 4. 5. 6. | applicable box at EMPORARILY OUT ritten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove Fill pipe, gauge pipe, All product lines at the Dispensers/pumps le Vent lines left open. Inventory form filed in COSURE BY REMO | right in response date) med into tank (ded to bottom of ten truck varietislands or pift in place but indicating temporary. | ponse to all state ry closure obtained or other container) of suction line, OR of bottom our recovery fitting umps located elsew locked and power overary closure. | tements in Section d, which and resulting liquid s, and vapor return I where are removed a disconnected. | removed, AND ines capped. and capped, OR | | Remover Verified Y N | Inspector Verified | NA |
| CB | 1. loca Check 3. TE Wr is 6. 1. 2. 3. 4. 5. 6. C. Cl 1. 2. | applicable box at EMPORARILY OUT ritten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove Fill pipe, gauge pipe, All product lines at the Dispensers/pumps le Vent lines left open. Inventory form filed in Product from piping of Piping disconnected | right in response date) med into tank (red to bottom or tank truck varies islands or posterior tank and truck varies islands or posterior tank and truck varies islands or posterior tank and t | or other container or recovery fitting urnps located elseworary closure. | tements in Section d, which and resulting liquid s, and vapor return I where are removed a disconnected. | removed, AND ines capped. and capped, OR | | Remover Verified Y N Y N Y N Y N Y N Y N Y N Y | Inspector Verified | NA |
| CB | 2. 3. 4. 5. 6. C. Cl | applicable box at EMPORARILY OUT ritten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove fill pipe, gauge pipe, All product lines at the Dispensers/pumps le Vent lines left open. Inventory form filed in Product from piping of Piping disconnected All liquid and residue | right in response of SERVIC and of temporare date) med into tank (red to bottom of temporare date) med into tank (red to within 1" tank truck varies islands or position place but the company of the place but the company of the place but the company of the place of temporary of the place o | ponse to all state E Ty closure obtained or other container) of suction line, OR of bottom our recovery fitting umps located elsew locked and power overary closure or it (or other container) or tank using explose | and resulting liquid s, and vapor return I where are removed a disconnected | removed, AND ines capped, and capped, OR hand pumps. | | Remover Verified Y Y Y Y Y Y Y Y Y Y Y Y Y | Inspector Verified | NA |
| CB | 2. 3. 4. 5. 6. C. Cl 1. 2. 3. 4. | applicable box at EMPORARILY OUT ritten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove fill pipe, gauge pipe, All product lines at the Dispensers/pumps le Vent lines left open. Inventory form filed in Product from piping of Piping disconnected All liquid and residue All pump motors and | right in response of SERVIC and of temporare date) med into tank (red to bottom of temporare date) med into tank (red to within 1" tank truck varies islands or position place but the compact of the place but the place of the | ponse to all state E Ty closure obtained or other container) of suction line, OR of bottom our recovery fitting umps located elsew locked and power overary closure or tank using exploses bonded to tank of | tements in Section d, which and resulting liquid s, and vapor return I where are removed a disconnected | removed, AND ines capped, and capped, OR hand pumps. | | Remover Verified Y Y Y Y Y Y Y Y Y Y Y Y Y | Inspector Verified | 2 2 0 0000000 0000 |
| CB | 2. 3. 4. 5. 6. C. Cl 1. 2. 3. 4. | applicable box at EMPORARILY OUT ritten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove fill pipe, gauge pipe, All product lines at the Dispensers/pumps le Vent lines left open. Inventory form filed in Product from piping of Piping disconnected All liquid and residue All pump motors and Fill pipes, gauge pipes | right in response of SERVIC val of temporare date) med into tank (red to bottom of temporare date) med into tank (red to within 1" tank truck varie islands or position place but the composition of the tank and removed from tank and removed from suction hoses es, vapor recomposition in tank and removed from suction hoses es, vapor recomposition in tank and removed from suction hoses es, vapor recomposition in tank and removed from suction hoses es, vapor recomposition in tank and removed from suction hoses es, vapor recomposition in tank and removed from suction hoses es, vapor recomposition in tank and removed from suction hoses es, vapor recomposition in tank and tan | ponse to all state E Ty closure obtained or other container) of suction line, OR of bottom. or recovery fitting umps located elsevelocked and power orary closure. The container of the | tements in Section d, which and resulting liquid s, and vapor return I where are removed a disconnected ner). sion proof pumps or r otherwise grounder submersible pumps | removed, AND ines capped. and capped, OR hand pumps. d. and other fixtures r | emoved. | Remover Verified Y Y Y Y Y Y Y Y Y Y Y Y Y | Inspector Verified | NA |
| CB | 2. 3. 4. 5. 6. C. C. 1. 2. 3. 4. 5. | applicable box at EMPORARILY OUT itten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove fill pipe, gauge pipe, All product lines at the Dispensers/pumps le Vent lines left open. Inventory form filed in Product from piping of Piping disconnected All liquid and residue All pump motors and fill pipes, gauge pipe NOTE: DROP TUBE THE USE OF AN ED | right in response of SERVIC val of temporare date) med into tank (red to bottom of temporare date) med into tank (red to within 1" tank truck varie islands or position place but the compact of the place | ponse to all state E Ty closure obtained or other container) of suction line, OR of bottom. or recovery fitting umps located elsevelocked and power corary closure. The container of the | tements in Section d, which and resulting liquid s, and vapor return I where are removed a disconnected ner). sion proof pumps or r otherwise grounder submersible pumps F THE TANK IS TO | removed, AND ines capped. and capped, OR hand pumps. d. and other fixtures r | emoved. | Remover Verified Y Y Y Y Y Y Y Y Y Y Y Y Y | Inspector Verified Description Description | |
| CB | 2. 3. 4. 5. 6. C. Cl | applicable box at EMPORARILY OUT itten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove fill pipe, gauge pipe, All product lines at the Dispensers/pumps le Vent lines left open. Inventory form filed in Product from piping of Piping disconnected All liquid and residue All pump motors and Fill pipes, gauge pipe NOTE: DROP TUBE THE USE OF AN ED Vent lines left connected Vent lines left vent lines lines lines lines lines lines lines lines line | right in response of SERVIC val of temporare date) med into tank (red to bottom of temporare date) med into tank (red to within 1" tank truck varie islands or position place but the control tank and removed from tank and removed from suction hoses es, vapor record SHOULD NO UCTOR. | ponse to all state E Ty closure obtained or other container) of suction line, OR of bottom. our recovery fitting umps located elsew locked and power orary closure. The first container orary closure. The tank using exploses bonded to tank of the t | tements in Section d, which and resulting liquid s, and vapor return I where are removed a disconnected ner). sion proof pumps or r otherwise grounder submersible pumps F THE TANK IS TO | removed, AND ines capped, and capped, OR hand pumps, d, and other fixtures r | emoved. | No. No. | Inspector Verified Description Description | 2 2 0 0000000 00000 0 |
| CB | 2. 3. 4. 5. 6. 7. | applicable box at EMPORARILY OUT itten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove fill pipe, gauge pipe, All product lines at the Dispensers/pumps le Vent lines left open. Inventory form filed in Product from piping of Piping disconnected All liquid and residue All pump motors and Fill pipes, gauge pipe NOTE: DROP TUBE THE USE OF AN ED Vent lines left connect Tank openings tempore. | right in responsed before beginning in response date) med into tank (red to bottom of the det to within 1" tank truck varie islands or position place but the drained into tank and a removed from tank and a removed from suction hoses as, vapor record SHOULD NO UCTOR. cited until tanks or arrily plugged | ponse to all state E Ty closure obtained or other container) of suction line, OR of bottom. Door recovery fitting umps located elses locked and power corary closure. The tank using explose to bonded to tank of the very connections, so T BE REMOVED I so purged. I so vapors exit thr | tements in Section d, which and resulting liquid s, and vapor return I where are removed a disconnected ner). sion proof pumps or r otherwise grounder submersible pumps F THE TANK IS TO | removed, AND ines capped, and capped, OR hand pumps, d, and other fixtures r BE PURGED THR | emoved. | No. No. | Nonector Verified | |
| CB | 2. 3. 4. 5. 6. 7. 8. | applicable box at EMPORARILY OUT itten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove fill pipe, gauge pipe, All product lines at the Dispensers/pumps le Vent lines left open. Inventory form filed in Product from piping of Piping disconnected All liquid and residue All pump motors and Fill pipes, gauge pipe NOTE: DROP TUBE THE USE OF AN ED Vent lines left connect Tank openings temporank atmosphere recompositions. | right in responsed before beginning in response date) med into tank (red to bottom bed to within 1" tank truck varie islands or position place but a common andicating tempo. OVAL drained into tank and a removed from suction hoses es, vapor record SHOULD NO UCTOR. cited until tanks or proposition is set of the common suction hoses es, vapor record set of the common suction is should be removed to 10%. | ponse to all state Ery closure obtained or other container) of suction line, OR of bottom our recovery fitting umps located elses locked and power corary closure. or tank using explose so bonded to tank or every connections, so our BE REMOVED I so purged d so vapors exit the of the lower flammer | tements in Section d, which and resulting liquid s, and vapor return I where are removed a disconnected mer) sion proof pumps or r otherwise grounder submersible pumps F THE TANK IS TO rough vent. hable range (LEL) - s | removed, AND ines capped. and capped, OR hand pumps. d. and other fixtures r BE PURGED THR | emoved. | No. No. | Nonector Verified 日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日 | 2 2 0 0000000 00000 0 |
| CB | 2. 3. 4. 5. 6. 7. 8. 9. | applicable box at EMPORARILY OUT itten inspector approve effective until (provide Product Removed a. Product lines drain b. All product remove c. All product remove fill pipe, gauge pipe, All product lines at the Dispensers/pumps le Vent lines left open. Inventory form filed in Product from piping of Piping disconnected All liquid and residue All pump motors and Fill pipes, gauge pipe NOTE: DROP TUBE THE USE OF AN ED Vent lines left connect Tank openings tempore. | right in response of SERVIC val of temporare date) med into tank (red to bottom of temporare date) med into tank (red to bottom of temporare date) med into tank (red to bottom of temporare date) med into tank truck varie islands or profit in place but in place directly drained into tank and a removed from suction hoses, vapor record SHOULD NO UCTOR. Cited until tanks or carrily plugged duced to 10% excavation after the control of the contro | or other container) of suction line, OR of bottom. or recovery fitting umps located elsev locked and power orary closure. or tank using explose sobonded to tank or very connections, so T BE REMOVED I so purged. d so vapors exit the of the lower flammer PURGING/INER | tements in Section d, which and resulting liquid s, and vapor return I where are removed a disconnected mer). sion proof pumps or r otherwise grounder submersible pumps F THE TANK IS TO rough vent. hable range (LEL) - s TING; placed on leve | removed, AND ines capped. and capped, OR hand pumps. d. and other fixtures r BE PURGED THRO | emoved. OUGH | No. No. | Inspector Verified | |

- CONTINUE ON NEXT PAGE -

| C. | CI | LOSURE BY REMOVAL (continued) | Remover Verified | Inspector Verified | <u>NA</u> |
|-----|----|---|---------------------------------------|-----------------------|-----------|
| | | Tank labeled in 2" high letters after removal but before being moved from site | □Y □N | | \square |
| | | Tank vent hole (1/8 th " in uppermost part of tank) installed prior to moving the tank from site | DY DN | | Z |
| | | Inventory form filed by owner with Safety and Buildings Division indicating closure by removal Site security is provided while the excavation is open. | Ø | | |
| D. | C | LOSURE IN PLACE | | | |
| | | NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS OR LOCAL AGENT. | | | |
| | | Product from piping drained into tank (or other container). Piping disconnected from tank and removed | \square Y \square N | | |
| | | All liquid and residue removed from tank using explosion proof pumps or hand pumps | | | |
| | | Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed. NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT ABOVE GRADE. | \ \ \ \ \ \ \ \ \ \ | | |
| | | Vent lines left connected until tanks purged. | \square \vee \square \bowtie | | |
| | | Tank openings temporarily plugged so vapors exit through vent | Y N | | H |
| | 9. | Tank properly cleaned to remove all sludge and residue. | \square \land \square \bowtie | | |
| | | Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled. Vent line disconnected or removed. | | | H |
| | | Inventory form filed by owner with Safety and Buildings Division indicating closure in place | □ Y □ N | | |
| E. | С | LOSURE ASSESSMENTS | | | |
| | 1 | NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10. Individual conducting the assessment has a closure assessment plan (written) which | | | |
| | ٠. | is used as the basis for their work on the site. | ZY □ N | | |
| | | Do points of obvious contamination exist? | XY BN | | |
| | | Was a field screening instrument used to pre-screen soil sample locations? | | | |
| | | Was a closure assessment omitted because of obvious contamination? | | | |
| | | Was the DNR notified of suspected or obvious contamination? | | _ | |
| _ | 7. | Contamination suspected because of: ☐ Odor ☐ Soil Staining ☐ Free Product ☐ Sheen On Groundwa | ater Field | Instrument | Test |
| F. | | IETHOD OF ACHIEVING 10% LEVEL DESCRIPTION Clauditer Or Diffused Air Blower | | | |
| • | _ | Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum | of 12 feet ab | ove ground. | |
| | _ | Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig. | | | |
| | L | Dry ice Dry ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed | over the grea | atest possibl | e tank |
| | _ | area. Dry ice evaporated before proceeding. | | | |
| | L | Inert Gas (CO/2 or N/2) NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHER ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT | RE. THE TA | INK MAY NO | OL BE |
| | | Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank | | | |
| | N | Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing Tank atmosphere monitored for flammable or combustible vapor levels. | g device groi | unded. | |
| | 7 | Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space | | | |
| | | and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained be ground. | efore removir | ng tank from | É |
| 3. | N | OTE SPECIFIC PROBLEMS OF NONCOMPLIANCE ISSUES RELOW | | | |
| | | Contamination source appears to be from overfilling b | in fill | port, | |
| | | | • | | |
| ₹. | R | EMOVER/CLEANER INFORMATION | | | |
| _ < | -4 | ERRY SCHUETTE TUU Shullo 0008 | ' フ | 10/31 | 194 |
| | R | Remover Signature Remover Cert | ification No. | Date Signe | d |
| ì. | 11 | NSPECTOR INFORMATION | 7 | 2 | |
| | | BRUCE GATIEN Dune Lellen | \ | 8 | |
| | Īr | ispector Name (print) Inspector Signature | | ertification N | 10. |
| | F | 37 20 DID # For Location Where Inspection Performed Inspector Telephone Number | Date Signed | <u> </u> | 4— |

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only: Tank ID # 372000 114

SBD-7437 (R. 05/94)

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Sec. 102.142, Wis. Stats.

Send Completed Form To: Safety & Buildings Division P.O. Box 7969 Madison, WI 53707

Madison, WI 53707 Telephone: (608) 267-5280

| Underground tanks in Wisconsin that have stored or currently Please see the reverse side for additional information on this p with at least 10 percent of its total volume (included piping) to each tank. Send each completed form to the agency designate this tank by submitting a form? X YES NO If yes, are The information you provide may be used by other government agency progress. | rogram. An undergro cated below ground le ed in the top right cor you correcting/updation | ound storage tank evel. A separate ner. Have you pr ng information or | is defined as any tank form is needed for eviously registered |
|---|--|--|---|
| This registration applies to a tank that is (check one): 1A. In Use or 1B. Newly Installed 4. Closed - Tank Removed 2. Abandoned With Product 6. Closed - Filled With | 8. Changed Ownership (Indicate new owner | Fire Department Prowhere Tank Locate MAINE T | |
| 3. ☐ Abandoned No Product (empty) Inert Material or With Water 7. ☐ Out of Service - Provide Da | below) ite: | | 72 <i>0</i> |
| A. IDENTIFICATION: (Please Print) 1. Tank Site Name Site Addi | arc | | |
| 3 M CO GreySTONE PLANT 47 | th & DECAT | | Site Telephone No. |
| □ City □ Village ☑ Town of: MAINE | State / | Zip Code 54401 | MARATHON |
| 3 Owner Name (mail sent here unless indicated otherwise in #3 below) グロード・ウィック・ウィック・ウィック・フィック・フィック・フィック・フィック・フィック・フィック・フィック・フ | Owner Mailing Address (m 100 605/7 | ail sent here unless in | dicated otherwise in #3) |
| M City_ Paul □ Village □ Town of: | State | Zip Code 55/44 | County |
| 3. Alternate Mailing Name If Different Than #2 | Alternate Mailing Street A | | om #2 |
| ☐ City ☐ Village ☐ Town of: | State | Zip Code | County |
| 4. Tank Age (date installed, if known: or years old) 5. Tank Capacity (gall $1-1-78$ | lons) 6. Tank Manufactu | rer's Name (if known) | - |
| B. TYPE OF USER (check one): | | | |
| 1. ☐ Gas Station | 3. Utility 7. School | | Mercantile Residential |
| C. TANK CONSTRUCTION: | | | |
| 1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coa 3. ☑ Coated Steel 4. ☐ Fiberglass 6. ☐ Relined - Date 7. ☐ Steel - Fiberglass Reinforced Pla | 5. 🔲 Oti | ner (specify): | essed Current) |
| Approval: 1. Nat'l Std. 2. UL 3. Other: | | Is Tank Doubl | e Walled? Yes No |
| Overfill Protection Provided? Yes No If yes, identify type: | | Spill Containr | |
| tightness testing 5. Interstitial monitoring 6. Not required at pre | r monitoring 3. 🗌 Grou esent 7. 🔲 Manual Tan | ndwater monitoring ik Gauging (only for ta | 4. ☐ inventory control and anks of 1,000 gallons or less) |
| D. PIPING CONSTRUCTION 1. Bare Steel 2. Cathodically Protected and Coated or Wrapped Steel 4. Fiberglass 5. Other (specify): | eel (A. 🔲 Sacrificial Anodes | or B. [] Impressed C | urrent) 3. 🔼 Coated Steel 9. 🗍 Unknown |
| Piping System Type: 1. Pressurized piping with: A. auto shutoff; B. 3. Suction piping with check valve at pump and inspe | | or 2. Suction pi | ping with check valve at tank |
| Piping leak detection method: used if pressurized or check valve at tank: 1. [| | 2. Interstitial moni 6. Not Required | toring |
| Approval: 1. Nat'l Std 2. UL 3. Other: | | Double Walled: | ☐ Yes You |
| E. TANK CONTENTS | | | |
| 1. ☐ Diesel 2. ☐ Leaded 5. ☐ Gasohol 6. ☐ Other | 3. ☐ Unleaded 7. ☐ Empty | | _ Fuel Oil] Sand/Gravel/Slurry |
| 9. Unknown 10. Premix | 11. Waste Oil | · | Propane |
| 13. Chemical * | 14. 🔲 Kerosene | 15. |] Aviation |
| * If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical name(s) are number as the chemical name are not | ical or waste. | | |
| If Tank Closed, Give Date (mo/day/yr): | Has a site assessment bee | n.completed? (see re | verse side for details) |
| OCT 31 1994 | | ∑ Yes □ No | |
| If installation of a new tank is being reported, indicate who performed the ins | stallation inspection: | | |
| 1. ☐ Fire Department 2. ☐ DILHR | 3. Other (identify) | | |
| Name of Owner or Operator (please print): | Indica | te Whether: | A Operator |
| Signature of Owner or Operator: | Date | igned: | G Sperator |
| m/ichaef//. Willow | | | 994 |

State of Wisconsin



RHINELANDER 54501

DEPARTMENT OF NATURAL RESOURCES NORTH CENTRAL DISTRICT HEADQUARTERS BOX 818

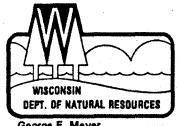
186

Attempted Not Known
Vacant
Ho Such Namber
Hoved Grace Leaves

CRAIG JOHNSON
DELTA ENVIRONMENTAL
1801 HIGHWAY 8 SUITE 114
ST PAUL MN 55112

Idealdean Harbella Labella Habila Habilan Habila

55112-1892,43,



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

North Central District Headquarters Box 818 Rhinelander, Wisconsin 54501 TELEPHONE 715-369-8900 TELEFAX 715-369-8932

George E. Meyer Secretary

November 2, 1994

NCD UID #1186

Mr. Bob Siegel 3M Products PO Box 33331, Bld-21-2W05 St. Paul, MN 55133

SUBJECT:

Reported Contamination at 3M Rock Quarry, 4th Avenue & Decatur Street, Town of Maine, Wisconsin

Dear Mr. Siegel:

On October 31, 1994, the Department of Natural Resources - Leaking Underground Storage Tank Program was notified by you that petroleum contamination was discovered during tank removal activities at the above referenced site.

Based on the information we have received, the Department believes that you are responsible for restoring the environment at this site under Section 144.76, Wisconsin Stats. (hazardous substances spills law). This includes first investigating the extent of the contamination, then selecting and implementing the most appropriate remedial action. Enclosed is information to help you understand what you need to do to ensure your compliance with the spills law.

The purpose of this letter is threefold: 1) to describe your legal responsibilities, 2) to explain what you need to do to investigate and clean up the contamination, and 3) to provide you with information about cleanups, environmental consultants, and working cooperatively with the Department of Natural Resources.

Legal Responsibilities:

Your legal responsibilities are defined both in statute and in administrative rules. The hazardous substances spill law, Section 144.76 (3) Wisconsin Statutes, states:

* RESPONSIBILITY. 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 the state.

Wisconsin Administrative Codes NR 700 through NR 728 establish requirements for interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Wisconsin Administrative Code NR 140 establishes groundwater standards.



Steps to Take:

The longer contamination is left in the environment the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and to neighboring properties and reduce your costs in investigating and cleaning up the contamination. To ensure that your cleanup complies with Wisconsin's laws and rules, you should hire a professional environmental consultant who understands what needs to be done. The following are the first four steps to take:

- 1. By December 15, 1994, please submit <u>written</u> verification (such as a letter from the consultant) that you have hired an environmental consultant. You will need to work quickly to meet this timeline.
- 2. By January 15, 1994, your consultant must submit a workplan and a schedule for conducting the investigation. The consultant must follow the Department's administrative rules and our technical guidance documents. Please include with your workplan a copy of any previous information that has been completed for your site (such as an underground tank removal report, or a preliminary soil excavation report).
- 3. Please keep us informed of what is being done at your site. You or your consultant must provide us with a brief report at least every 90 days, starting after your workplan is submitted. These quarterly reports should summarize the work completed since the last report. Quarterly reports need only include one or two pages of text, plus any relevant maps and tables. However, please note that should conditions at your site warrant, you may receive a letter requiring more frequent contacts with the Department. You will also receive one annual site status report form in February.
- 4. When the site investigation is complete, your consultant must submit a full report on the extent and degree of soil and groundwater contamination and a proposal for cleaning up the contamination.

Due to the number of contaminated sites and our staffing levels we will be unable to respond to each report. To maintain your compliance with the spills law and chs. NR 700 through NR 728, do not delay the investigation and cleanup by waiting for DNR responses. We have provided detailed technical guidance to environmental consultants. Your consultant is expected to be familiar with our technical procedures and administrative rules and should be able to answer your questions on meeting Wisconsin's cleanup requirements.

Your correspondence and reports regarding this site should be sent to the Department at the following address: Connie Antonuk, Unit Leader, Emergency & Remedial Response, P.O. Box 818, Rhinelander, WI 54501. Unless otherwise requested, please send only one copy of all plans and reports.

Information for Site Owners:

Enclosed is a list of environmental consultants and some important tips on selecting a consultant. If you are eligible for Wisconsin's PECFA program (see end of letter) you will need to compare at least three consultants' proposals before hiring a consultant. Consultants and laboratories working in the PECFA program are required to carry errors and omissions insurance to help protect you against unsuitable work. Also enclosed are materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method. This information has been prepared to help you understand your responsibilities and what your environmental consultant needs to do. Please read this information carefully.

If you are interested in obtaining the protection of limited liability under s. 144.765, Stats., please contact Mark Giesfeldt at (608) 267-7562 or Darsi Foss at (608) 267-6713, in the Department of Natural Resources' Madison office for more information. The liability exemption under s. 144.765. Stats., is available to persons who meet the definition of "purchaser" in section 144.765(1)(c) and receive Department approval for the response actions taken at the property undergoing cleanup. The Department will determine eligibility for this program on a case-by-case basis, prior to the "purchaser" developing a scope of work for conducting a ch. NR 716 site investigation at the property.

Financial Information:

Reimbursement from the Petroleum Environmental Cleanup Fund (PECFA) is available for the costs of cleaning up contamination from eligible petroleum storage tanks. The fund is administered by the Department of Industry, Labor, and Human Relations (DILHR). Please contact DILHR at (608) 266-2424 for more information on eligibility and regulations for this program.

If you have any questions about this letter or your responsibilities, please call me at (715) 369-8986.

Thank you for your cooperation.

Sincerely,

NORTH CENTRAL DISTRICT

Connie J. Antonuk

Unit Leader

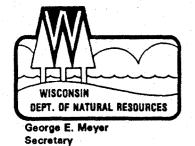
Leaking Underground Storage Tank Program

Enclosures

c: DILHR, Madison

File

Craig Johnson, Delta Environmental, 1801 Hwy 8, Suite 114, St. Paul, MN 55112



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

North Central District Headquarters
Box 818
Rhinelander, Wisconsin 54501
TELEPHONE 715-369-8900
TELEFAX 715-369-8932

November 2, 1994

NCD UID #1186

Mr. Bob Siegel
3M Products
PO Box 33331, Bld-21-2W05
St. Paul, MN 55133

SUBJECT:

Reported Contamination at 3M Rock Quarry, 4th Avenue & Decatur Street, Town of Maine, Wisconsin

Dear Mr. Siegel:

On October 31, 1994, the Department of Natural Resources - Leaking Underground Storage Tank Program was notified by you that petroleum contamination was discovered during tank removal activities at the above referenced site.

Based on the information we have received, the Department believes that you are responsible for restoring the environment at this site under Section 144.76, Wisconsin Stats. (hazardous substances spills law). This includes first investigating the extent of the contamination, then selecting and implementing the most appropriate remedial action. Enclosed is information to help you understand what you need to do to ensure your compliance with the spills law.

The purpose of this letter is threefold: 1) to describe your legal responsibilities, 2) to explain what you need to do to investigate and clean up the contamination, and 3) to provide you with information about cleanups, environmental consultants, and working cooperatively with the Department of Natural Resources.

Legal Responsibilities:

Your legal responsibilities are defined both in statute and in administrative rules. The hazardous substances spill law, Section 144.76 (3) Wisconsin Statutes, states:

* RESPONSIBILITY. 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 the state.

Wisconsin Administrative Codes NR 700 through NR 728 establish requirements for interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Wisconsin Administrative Code NR 140 establishes groundwater standards.



Steps to Take:

The longer contamination is left in the environment the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and to neighboring properties and reduce your costs in investigating and cleaning up the contamination. To ensure that your cleanup complies with Wisconsin's laws and rules, you should hire a professional environmental consultant who understands what needs to be done. The following are the first four steps to take:

- 1. By December 15, 1994, please submit <u>written</u> verification (such as a letter from the consultant) that you have hired an environmental consultant. You will need to work quickly to meet this timeline.
- 2. By January 15, 1994, your consultant must submit a workplan and a schedule for conducting the investigation. The consultant must follow the Department's administrative rules and our technical guidance documents. Please include with your workplan a copy of any previous information that has been completed for your site (such as an underground tank removal report, or a preliminary soil excavation report).
- 3. Please keep us informed of what is being done at your site. You or your consultant must provide us with a brief report at least every 90 days, starting after your workplan is submitted. These quarterly reports should summarize the work completed since the last report. Quarterly reports need only include one or two pages of text, plus any relevant maps and tables. However, please note that should conditions at your site warrant, you may receive a letter requiring more frequent contacts with the Department. You will also receive one annual site status report form in February.
- 4. When the site investigation is complete, your consultant must submit a full report on the extent and degree of soil and groundwater contamination and a proposal for cleaning up the contamination.

Due to the number of contaminated sites and our staffing levels we will be unable to respond to each report. To maintain your compliance with the spills law and chs. NR 700 through NR 728, do not delay the investigation and cleanup by waiting for DNR responses. We have provided detailed technical guidance to environmental consultants. Your consultant is expected to be familiar with our technical procedures and administrative rules and should be able to answer your questions on meeting Wisconsin's cleanup requirements.

Your correspondence and reports regarding this site should be sent to the Department at the following address: Connie Antonuk, Unit Leader, Emergency & Remedial Response, P.O. Box 818, Rhinelander, WI 54501. Unless otherwise requested, please send only one copy of all plans and reports.

Information for Site Owners:

Enclosed is a list of environmental consultants and some important tips on selecting a consultant. If you are eligible for Wisconsin's PECFA program (see end of letter) you will need to compare at least three consultants' proposals before hiring a consultant. Consultants and laboratories working in the PECFA program are required to carry errors and omissions insurance to help protect you against unsuitable work. Also enclosed are materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method. This information has been prepared to help you understand your responsibilities and what your environmental consultant needs to do. Please read this information carefully.

If you are interested in obtaining the protection of limited liability under s. 144.765, Stats., please contact Mark Giesfeldt at (608) 267-7562 or Darsi Foss at (608) 267-6713, in the Department of Natural Resources' Madison office for more information. The liability exemption under s. 144.765. Stats., is available to persons who meet the definition of "purchaser" in section 144.765(1)(c) and receive Department approval for the response actions taken at the property undergoing cleanup. The Department will determine eligibility for this program on a case-by-case basis, prior to the "purchaser" developing a scope of work for conducting a ch. NR 716 site investigation at the property.

Financial Information:

Reimbursement from the Petroleum Environmental Cleanup Fund (PECFA) is available for the costs of cleaning up contamination from eligible petroleum storage tanks. The fund is administered by the Department of Industry, Labor, and Human Relations (DILHR). Please contact DILHR at (608) 266-2424 for more information on eligibility and regulations for this program.

If you have any questions about this letter or your responsibilities, please call me at (715) 369-8986.

Thank you for your cooperation.

Sincerely,

NORTH CENTRAL DISTRICT

Connie J. Antonuk

Unit Leader

Leaking Underground Storage Tank Program

Enclosures

c: DILHR, Madison

File

Craig Johnson, Delta Environmental, 1801 Hwy 8, Suite 114, St. Paul, MN 55112

| State of V Department of N | | TO: NCI |) /.(| 7 TOXIC | The second second second | ZARDOUS SPILL REPORT Rev. 6-86 | |
|--|--|--|------------------------------|---|--------------------------|------------------------------------|--|
| | | State Div. Emer U.S. Nat'l. Resp Chemtrec/Pestic | onse Center 🦈 | (608) 266-3232 ' (800) 424-8802 (800) 424-9300 (| Spill | [D'Number | |
| <u> </u> | 24 PC | | | | <u> </u> | M M D D 0-99 | |
| Date of Incident | Day of Week | Time of Incident | □ A.M. □ P.M. | Reported By (Name) | e/ | Telephone Number (6/2) 778-6/3 | |
| Date Reported | Day of Week | Time Reported | _ □ A.M. > P.M. | Agency or Firm Reporting | • | Reported thru Div. Emergen. Gov't. | |
| Substance Involved | | Quantity > | Units | Person or Firm Responsib | le C | | |
| Substance Involved | | Quantity | Units | Contact Name | | Telephone Number | |
| Physical Characterist | ics | | | Address — Street or Route | °\ | 1 | |
| □ Solid | Liquid | Color | <u> </u> | City, State, Zip Code | <i>X</i> こ | | |
| ☐ Semisolid | ☐ Gas | Odor | <u> </u> | St Paul | MN | 1 55133 | |
| Cause of Incident | | | | Action Taken By Spiller | | | |
| L.U | -211 | | | No Action | No | | |
| Exact Location Descr | iption (intersect | | Paine, | Taken | Notificati | on 🗀 Investigate | |
| County Location | | n, Town, Range | INI | Cleanup; Method | | | |
| Parathon | | , T N | . R | Amount Recovered | | | |
| DNR Dist DNR Area | Groundwaters | | | Monitor | | | |
| VCD Antigo | | □ No Po | tential | Contractor Hired; Nan | ne | | |
| Surface Waters Affec | | Name of Surface | Water | Other Action | | | |
| Yes No | Potential | | | Spill Location | | | |
| Date District Notified | Day of Week | Time District No | اسسا | ☐ Industrial Facility/Paper Mill/Chem. Co. | | | |
| 10-21-94 | mon | 1430 | □ A.M. P.M. | Gas/Service Station/Garage, Auto Dealer, Repair Shop | | | |
| District Person Notifi | ied | Telephone Numb | | Ag Coop/Facility/Chee | | 점속 사람들이 가지 않는 것 같은 사람들이 하는 것 같아. | |
| FAXED | | (,) | | 그리 글로 이 집에서 아이를 가는 것이 없다. | | ery, insurance co., etc.) | |
| Date Investigated | Day of Week | Time Investigate | ed □ A.M. | Public Property (city, county, state, church, school, etc.) | | | |
| | | | □ A.M. □ P.M. | - 웹타트 등도 그렇게 그렇게 다가 그로 그가졌다. 그는 이번 점을 하지만 하는 것이 하는 것이 그렇지만 그로 이번 보게 모습했다. 그 | | | |
| Person Investigating | | Telephone Numb | er | Pipeline, Terminal, Tank Farm, Oil Jobber/Wholesaler | | | |
| Action Taken By DN | R | | | ☐ Transportation Accident, Fuel Supply Tank Spill ☐ Transportation Accident, Load Spill ☐ Construction, Excavation, Wrecking, Quarry, Mine ☐ Other ☐ OCK OUGCOY | | | |
| No Action | | Supe | rvise/Conduct | | | | |
| ☐ Taken | ☐ Investiga | | nup' | | | | |
| Spiller Required To Take Action; Type | | | | Spilled Substance Destination | | | |
| Contractor Hired By DNR; Name | | | | Air. Soil | | RECEIVED | |
| ☐ Amount Recover | ed | | 2 1 3 4 7 | ∬ ☐ Groundwater | IT | | |
| 29.29 Enforcement | nt | | | Surface Water | | SW 1 A 1994 | |
| Other Agencies on Sc | | | Landin | Storm Sewer Sanitary Sewer | | | |
| | | | | ☐ Contained/Recovered | | REMEDIAL RESPONSE SECTION | |
| Local | | | | Other | BURC | F SOLID & HAZRO WASTE | |
| State | | 7.00 | | Person Filing This Report | | 608266-214 | |
| Federal | | | | Signature | Ann | Date Signed | |
| Additional Comments | | | | I CAUNY! | 000 | - W 1031-77 | |
| and the second of the second o | ccava ti | 60 | | | | | |
| | (Caval) | \mathcal{J} | 3 | | | | |
| | | to the state of th | | | | | |
| | | | | | | | |
| | The state of the s | | 2.6 | ت دواندازات بازداد در استخداد بازداد استخداد بازداد بازد | | | |

| State of V | | 10, AICI |) / / | 1 | and the same of the same of | ZARDOUS SPILL REPORT | |
|--|-------------------|--|------------------|---|-----------------------------|--|--|
| Department of N | atural Resource | State Div. Emerg U.S. Nat'l. Respo Chemtrec/Pestic | onse Center | (608) 266-3232 (800) 424-8802 (800) 424-9300 | Spill I | Rev. 6-80 D Number M M D D 0-99 | |
| Date of Incident | Day of Week | Time of Incident | □ A.M. □ P.M. | Reported By (Name) | / | Telephone Number | |
| Date Reported | Day of Week | Time Reported | ☐ A.M. ▶ P.M. | Agency or Firm Reporting | | Reported thru Div. Emergen. Gov't. Yes N | |
| Substance Involved | -/ | Quantity > | Units | Person or Firm Responsible | Co | | |
| Substance Involved | | Quantity | Units | Contact Name | | Telephone Number | |
| Physical Characterist | ics | | | Address - Street or Route | | | |
| ☐ Solid | Liquid | Color | | City, State, Zip Code | 2 | 10001 // | |
| ☐ Semisolid | ☐ Gas | Odor | | City, State, 210 Code | nn | 55/33 | |
| Cause of Incident | | | | Action Taken By Spiller | | ELEPHONE PROPERTY | |
| L. U | -3,3 | 4 4 5 | | | Vo/ | | |
| Exact Location Descr | iption (intersect | ion, mileage, etc.) | mine | 1- | Votification | on Investigate | |
| County Location | 1/1/4 1/4 Section | on, Town, Range | orre) | Containment; Type | 9 | CA | |
| 1 11 | /4/4, /4, Decoil | in, romin, mange | Wh | Cleanup; Method | 100 | | |
| larathon | | , TN | , R | Amount Recovered | 0 4 | 1 12 | |
| DNR Dist DNR Area | Groundwaters | | | Monitor | Phin Disa | A 1995 OUTE | |
| Surface Waters Affec | ☐ Yes | Name of Surface | | Contractor Hired; Name | 1000 | 700 | |
| Yes No | Potential | Name of Surface | water | Spill Location | | 7 · · | |
| Date District | Day of Week | Time District No | tified | ☐ Industrial Facility/Paper | Mill/Che | em. Go. | |
| Notified 1430 A.M. | | | | | | | |
| 0-31-77 | L Property of | 1750 | P.M. | Ag Coop/Facility/Cheese Factory/Creamery Other Small Business (bank, grocery, insurance co., etc.) Public Property (city, county, state, church, school, etc.) Utility Co., Power Generating/Transfer Facility | | | |
| District Person Notifi | ed | Telephone Numb | er | | | | |
| Date Investigated | Day of Week | Time Investigate | ed | | | | |
| | | | ☐ A.M. | | | | |
| | | P.M. | | Private Property (home/farm) | | | |
| Person Investigating | | Telephone Numb | er | ☐ Pipeline, Terminal, Tank Farm, Oil Jobber/Wholesaler ☐ Transportation Accident, Fuel Supply Tank Spill ☐ Transportation Accident, Load Spill ☐ Construction, Excavation, Wrecking, Quarry, Mine | | | |
| Action Taken By DN | R | | | | | | |
| _ No Action | | Supa | rvise/Conduct | | | | |
| Taken | ☐ Investiga | tion Clea | | | | | |
| Spiller Required To | | | | Other ROCK QUARTY | | | |
| ☐ Take Action; Typ | е | | | Spilled Substance Destination Air | n | C.S. T. Was See a control from the control of the c | |
| Contractor Hired | | | | Soil | | RECEIVED | |
| ☐ Amount Become | | | | Groundwater | - Personal | The same of the sa | |
| Amount Recovere | | | | Surface Water | | NOV 1 1994 | |
| U 29.29 Enforcement Other Agencies on Sci | | | | Storm Sewer | | MIN I IOOK | |
| omer rigencies on Sc | CHE | | | ☐ Sanitary Sewer | EMERG & | REMEDIAL RESPONSE SECTION | |
| Local | | | | Contained/Recovered | | F SOLID & HAZRD WASTE | |
| | | | | Person Filing This Report (print name) | | | |
| State | | | | Cathy Howa | ard | 608266-21 | |
| Federal | Turk year | | | Signature | Husa | Date Signed | |
| Additional Comments | | (| | icho y | | | |
|) + 11 ex | cavati | 19. | | | | | |
| | | 1 | | | | | |
| | | San Francisco | | | | | |

54417-9999-00-A

LEAKING UNDERGROUND STORAGE TANK (Case Tracking) Rev. 9-92 Form 4400-146 1186 PMN Number **UID** Number FID Number Initial Contact Date County Grevstone Date RP Letter Sent Site Name Address Date Closure Approved Municipality Brokaw Legal Descript.: Person/Firm Reporting Bob ____1/4____1/4 Sec.___T__N R___(E/W) 3-M Products Phone Number 612 / 778- 6130 Priority Screening Scoring Criteria Funding Source Effective Date LUST Trust Eligible $_{1} = High$ $_{1} = RP$ 1 = Federal2 = Medium $_2 = LTF$ 2 = Non-Federal 3 = Low3 = EF4 = Unknown4 = OtherInit. Score __ Date / /____ CASE STATUS Start Date End Date (N) No Action Taken (E) RP Emergency Response (R) LTF Emergency Response ___ (L) Long Term Monitoring Responsible Party: Impacts: Company Name 3-M Pro Enter "P" for potential and "K" for known Contact Person Bab Siegel ___ (1) Fire/Explosion Threat Address ___ (2) Contaminated Private Well(s) ___# of Wells MN (3) Contaminated Public Well (4) Groundwater Contamination Telephone 612 / 778 - 6130 (5) Soil Contamination ___ (6) Other: ____ ___ (7) Surface Water Impacts ___ (9) Floating Product Consultant: Substances: # Tank(s) Size _ (1) Leaded Gas Company Name (2) Unleaded Gas Contact Name Address (3) Diesel √ (4) Fuel Oil __ (5) Unkwn Hydrocrbn __ Telephone: __ (8) Other __ __ (12) Waste Oil

| | A I | 10/2 11/1/ | | / . S . T . Form 4400-91 | Rev. 6-86 | | |
|---|------------------|---------------------|---------------|---|---|--|--|
| Department of Na | tural Heaource | State Div. Emer | gency Gov't. | | ill ID Number | | |
| | | U.S. Nat 7. Respo | onse Center | (800) 424-8802 | | | |
| | | Chemtrec/Pesuc | ides/Chlorine | (800) 424-9300 Y | Y M M D D 0-99 | | |
| Date of Incident | Day of Week | Time of Incident | CI A.M. | Reported By (Name) | Telephone Number | | |
| 10-37-94 | mon | | □ P.M. | Bob Siegel | 612,778-61 | | |
| Jate Reported | Day of Week | Time Reported | _ | Agency or Firm Reporting | Reported thru Div. Emergen. | | |
| 0-31-94 | mon | 1425 | ₽.M. | SAME | Gov't. Yes No | | |
| Substance Involved | . / | Quantity > | Units | Person or Firm Responsible | フ | | |
| ruel O | . / | • <u> </u> | | 3-111 | 0. | | |
| Substance Invol ved | | Quantity | Unito | Contact Name | Telephone Number | | |
| Physical Characteristic | | <u> </u> | | Address - Street or Boute | 2232/ | | |
| Solid | Liquid | Color . | <u>.</u> . | City, State. Zip Code | 39391 | | |
| Semisolid . | ☐ Gas | Odor | | St. Paul MI | N 55/33 | | |
| Cause of Incident | | | | Action Taken By Spiller | | | |
| 6.4 | .5, 1 | | | No Action No , | tana <u>. </u> | | |
| Exact Location Descrip | ption (intersect | ion, mileage, etc.) | 2. \ | Taken Notific | ation Investigate | | |
| Exact Location Descrip | atur | 57. // | aines | Containment; Type | | | |
| County Location | | n, Town, Range | NI | Cleanup; Method | | | |
| Parathon | | | | Amount Recovered | | | |
| | | | , R | ☐ Monitor | | | |
| | Groundwaters | | | Contractor Hired: Name | • | | |
| ICD Hintigo | Yes | No Po | | | | | |
| Surface Waters Affects Ves No | Potential | Name of Surface | AA RICEL | Other Action | | | |
| Yes No | Day of Week | Time District No | Hifiad | Spill Location | | | |
| Notified | Day of Week | Time District No. | A.M. | Industrial Facility/Paper Mill/ | | | |
| 0-31-94 | MON | 1430 | P.M. | Gas/Service Station/Garage, A | uto Dealer, Repair Shop | | |
| District Person Notifie | d | Telephone Numbe | | ☐ Ag Coop/Facility/Cheese Facto | ory/Creamery | | |
| FAXED | | (| | Dother Small Business (bank, g | rocery, insurance co., etc.) | | |
| | Day of Week | Time Investigate | d | Public Property (city, county, | state, church, school, etc.) | | |
| | | | □ A.M. | Utility Co., Power Generating/ | Transfer Facility | | |
| | | | □ Р.М. | Private Property (home/farm) | | | |
| Person Investigating | | Telephone Number | er | D Pipeline, Terminal, Tank Farm | , Oil Jobber/Wholeseler | | |
| | | _ () | | Transportation Accident, Fuel Supply Tank Spill Transportation Accident, Load Spill | | | |
| Action Taken By DNR | | | | | | | |
| _ No Action | | Super | vise/Conduct | Construction, Excavation, Wrecking, Quarry, Mine | | | |
| ∟ Taken | ☐ Investigat | lion L. Clear | nup | Nother Rock Querry | | | |
| Spiller Required To | o | | | | | | |
| ☐ Take Action; Type | | | ,, | Spilled Substance Destination | | | |
| _ Contractor Hired | | | | Air | | | |
| 」 By DNR; Name _ | | | | Soil | | | |
| Amount Recovered | l | <u> </u> | | Groundwater | | | |
| - Millodin 10000 Acres | | | | Surface Water | | | |
| | | | <u></u> | Storm Sewer | | | |
| 29.29 Enforcement | | | | Sanitary Sewer | | | |
| 29.29 Enforcement | | | | | | | |
| 29.29 Enforcement Other Agencies on Scor | ne | | | ☐ Contained/Recovered | | | |
| 29.29 Enforcement Other Agencies on Scor | | | | Contained/Recovered Other | | | |
| 29.29 Enforcement Other Agencies on Scor | ne | | | Other | P 608-266-214 | | |
| 29.29 Enforcement Other Agencies on Scor | ne | | | Other Person Filing This Report (print as | 0 608-266-214 | | |
| 29.29 Enforcement Other Agencies on Scor Local | ne | | | Other | 10 608-266-2/9 Date Signed | | |
| 29.29 Enforcement Other Agencies on Scoo Local State Cederal | ne | | | Other Person Filing This Report (print as | 0 608-266-219 Date Signed 10-31-94 | | |
| 29.29 Enforcement Other Agencies on Scol Jocal State Pederal Additional Comments: | ne | | | Other Person Filing This Report (print as | 19 608-266-2/9 20 Date Signed 10-31-94 | | |
| 29.29 Enforcement Other Agencies on Scoo Local State Cederal | ne | | | Other Person Filing This Report (print as | 10 608-266-2/9 Date Signed 10-31-94 | | |
| 29.29 Enforcement Other Agencies on Scor Jocal State Cederal Additional Comments: | ne | | | Other Person Filing This Report (print as | 19 608-266-2/9 Date Signed 10-31-99 | | |